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**TECHNICAL BULLETIN**

**OPERATOR AND FIELD MAINTENANCE  
INSTALLATION MANUAL  
(INCLUDING REPAIR PARTS LIST)**

**FOR**

**ADD-ON-ARMOR (AoA) AIR CONDITIONING  
APPLIED TO**

**TRUCK, UTILITY: CARGO/TROOP CARRIER, 1-1/4 TON, 4X4, M998  
(2320-01-107-7155) (EIC: BBD); M998A1 (2320-01-371-9577) (EIC: BBN);**

**TRUCK, UTILITY: HEAVY VARIANT, 4X4, M1097 (2320-01-346-9317) (EIC: BBM);  
M1097A1 (2320-01-371-9583) (EIC: BBU); M1097A2 (2320-01-380-8604) (EIC:BB6);**

**TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, M1025  
(2320-01-128-9551) (EIC: BBF); M1025A1 (2320-01-371-9584) (EIC: BBV);  
M1025A2 (2320-01-380-8233) (EIC:BB3);**

**TRUCK, UTILITY: S250 SHELTER CARRIER, 4X4, M1037  
(2320-01-146-7193) (EIC: BBK)**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**AUGUST 2007**



## WARNING SUMMARY

- Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. Do not smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.
- Do not attempt to perform any maintenance tasks on the kit while the vehicle is operating. Serious injury or death could result from failure to observe this warning.
- Keep hands and arms away from fan blade and drive while engine is running. Failure to do so may result in serious injury to personnel.
- When adjustment or service requires a running engine, two personnel will be used (one at controls and one at service point). This helps prevent accidental movement of controls. Failure to comply could result in serious injury to personnel and/or damage to equipment.
- When checking connections, do not let tools touch battery box. A direct short, arcing tool, heating to red hot, and battery explosion could result. Failure to do so may result in serious injury or death to personnel.
- Use rags or a brush to lubricate components. Sharp edges can cut hands. Failure to comply could result in injury to personnel.
- Let hot parts cool before starting work. Hot parts can burn personnel. Failure to comply could result in injury to personnel.
- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning (A/C) Kit. Failure to comply could result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the A/C Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.Failure to comply could result in injury or death to personnel and/or damage to equipment.
- When drilling through floor, use caution not to damage or drill into the fuel tank. Failure to comply could cause damage to equipment and/or injury to personnel.



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HEADQUARTERS,  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 31 August 2007

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**(2320-01-146-7193) (EIC: BBK)**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The internet address is <https://aeprs.ria.army.mil>. The DA Form 2028 is located under the Public Applications section in the AEPS Public Home Page. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax, or E-mail your letter or DA Form 2028 direct to: TACOM, AMSTA-LC-LPIT/TECH PUBS, RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The E-mail address is ROCK-TACOM-TECH-PUBS@conus.army.mil. The fax number is DSN 793-0726 or Commercial (309)782-0726.

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## Section I. GENERAL INFORMATION

### 1-1 Scope.

This technical bulletin is for your use in installing and maintaining the Red Dot Air Conditioning (A/C) Kits installed on the two-door and four-door M998, M1025, M1037, and M1097 High Mobility Multipurpose Wheeled Vehicle (HMMWV) variants. The manual covers operator, unit maintenance, and direct support maintenance installation and maintenance instructions for the kit. Specific repair parts are not covered in the installation instructions. Refer to the Repair Parts List (RPL), Appendix C for specific repair parts.

### 1-2 Maintenance Forms and Records.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS) UPDATE.

### 1-3 Corrosion Prevention and Control (CPC).

Corrosion Prevention and Control (CPC) of Army material is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in the future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other material, such as rubber or plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report (PQDR). Use of keywords such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem.

### 1-4 Destruction of Army Material to Prevent Enemy Use.

Destruction of Army material to prevent enemy use shall be in accordance with TM 750-244-3.

### 1-5 Preparation for Storage and Shipment.

No procedure required.

### 1-6 Equipment Improvement Recommendation (EIR).

If the equipment in any of your kits needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on Standard Form 368, Product Quality Deficiency Report (PQDR). Mail it to us at "Department of the Army, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E PQDR, Mail Stop 267, 6501 E. 11 Mile Road, Warren, MI 48397-5000." We will send you a reply.

### 1-7 List of Abbreviations/Acronyms.

A list of Abbreviations/Acronyms can be found in this Technical Bulletin (TB), Appendix E.

### 1-8 Levels of Maintenance.

Army users shall refer to the Maintenance Allocation Chart (MAC), Appendix B, for tasks and levels of maintenance to be performed.

### 1-9 Warnings, Cautions, and Notes.

Always observe the WARNINGS, CAUTIONS, and NOTES appearing in your TB as well as those referenced in other Technical Manuals (TMs). Warnings and Cautions appear before applicable procedures. You must observe WARNINGS to prevent serious injury to yourself or others. You must observe CAUTIONS to prevent your equipment from being damaged. You must observe NOTES to ensure procedures are performed properly.



## Section II. EQUIPMENT DESCRIPTION AND DATA

### 1-10 General.

The Air Conditioner Kit is designed to be mounted on the two-door and four-door models M998 and M998A1; M1025, M1025A1, and M1025A2; M1037; M1097, M1097A1, and M1097A2 HMMWV variants.

### 1-11 Equipment Characteristics, Capabilities, and Features.

#### a. Characteristics;

The Air Conditioner Kit consists of a cab mounted air conditioner unit, condenser, compressor, and all attaching hardware, hoses, and brackets.

Hardware and brackets are included for all variants and will not all be used.

Kit is applied to M998 and M998A1; M1025, M1025A1, M1025A2; M1037; M1097, M1097A1, and M1097A2 HMMWV variants with Add-on-Armor (AoA).

#### b. Variants Covered in this Publication;

- (1) With GSIE Add-on-Armor (two-door):  
M998 and M998A1; M1037; M1097, M1097A1, and M1097A2.
- (2) With GSIE Add-on-Armor (four-door):  
M998 and M998A1; M1025, M1025A1, and M1025A2.
- (3) With O'Gara Hess Add-on-Armor (two-door):  
M998 and M998A1; M1037; M1097, M1097A1, and M1097A2.
- (4) With O'Gara Hess Add-on-Armor (four-door):  
M998 and M998A1.



### Section III. PRINCIPLES OF OPERATION

#### 1-12 General.

This section explains how the components of the GSIE and O'Gara Hess M998, M1025, M1037, and M1097 series vehicles work together. An explanation of the systems (functional groups) covered are divided into the following paragraphs:

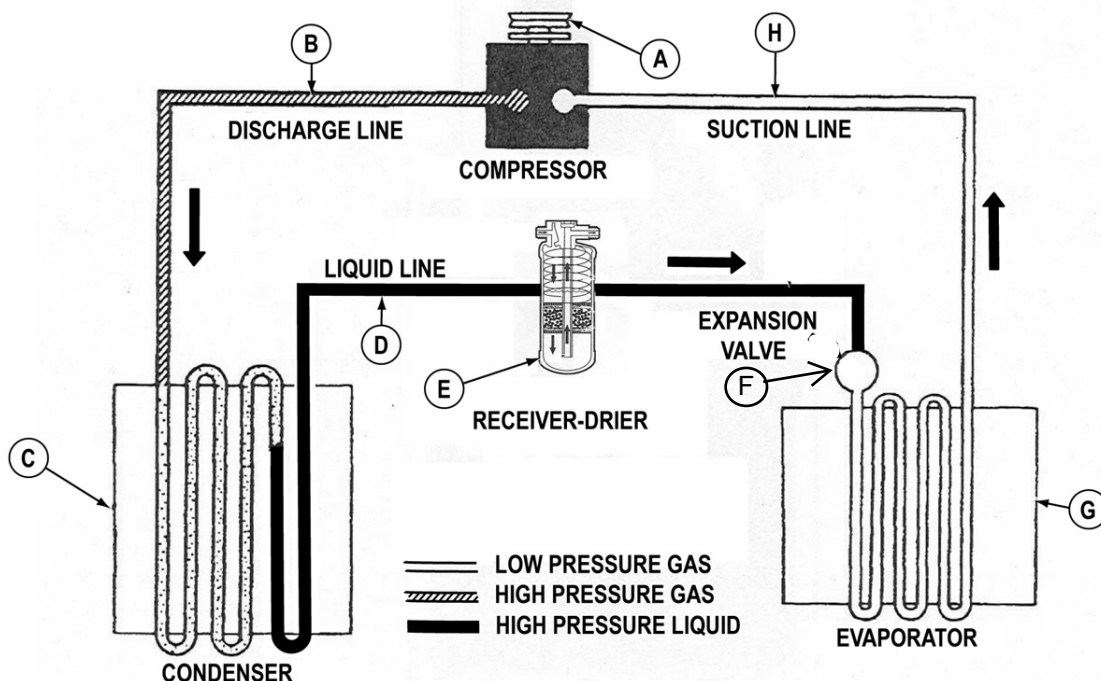
#### 1-13 M998, M1025, M1037, and M1097 Air Conditioner Kit System Operation

- a. Compressor
- b. Discharge Line
- c. Condenser
- d. Liquid Line
- e. Receiver-Drier
- f. Expansion Valve
- g. Evaporator
- h. Suction Line

## 1-13. M998, M1025, M1037, AND M1097 AIR-CONDITIONING KIT SYSTEM OPERATION

The air-conditioning kits covered in this manual applies to the M998 and M998A1; M1025, M1025A1, M1025A2; M1037; M1097, M1097A1, and M1097A2 HMMWV variants vehicles and consists of the following major components:

- (A) **COMPRESSOR** - Inside the compressor, low pressure gas refrigerant is compressed into a high pressure gas that is pushed into the condenser by the compressor.
- (B) **DISCHARGE LINE** - High pressure gas is carried through the discharge line from the compressor to the condenser.
- (C) **CONDENSER** - Refrigerant enters the condenser as a high pressure gas. When condensed, it gives up its heat to the outside air and becomes a high pressure liquid.
- (D) **LIQUID LINE** - High pressure liquid refrigerant is carried back to the evaporator by the liquid line to repeat the evaporation/condensation cycle.
- (E) **RECEIVER-DRIER** - The receiver-drier functions as a drier, refrigerant filter and temporary storage tank for refrigerant moving through the AC system.
- (F) **EXPANSION VALVE** - High pressure liquid refrigerant enters a non-adjustable expansion valve where the refrigerant is formed into a liquid spray.
- (G) **EVAPORATOR** - Refrigerant enters evaporator as a liquid spray. It absorbs heat from the air in the patient compartment and vaporizes into a low pressure gas.
- (H) **SUCTION LINE** - Refrigerant in low pressure gas form is drawn from the evaporator by the suction action of the compressor.





## CHAPTER 2

### INSTALLATION AND OPERATION INSTRUCTIONS

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## Section I. INSTALLATION OF AIR CONDITIONING KIT TO HMMWV VARIANTS WITH GSIE ADD-ON-ARMOR

### 2-1 General.

This section describes and illustrates the installation and removal of the Air Conditioning Kit to HMMWV variants with Add-on-Armor. Specific repair parts are not covered in the installation instructions. Refer to the Repair Parts List (RPL) Appendix C for specific repair parts.

There are eight configurations. Each configuration is specific to the variant to which it is applied and the type of Add-on-Armor installed on the variant.

#### 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor.

#### WARNING

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

#### CAUTION

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

#### NOTE

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnecting/reconnecting battery.
  3. Routing and attaching power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097, and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**a. Install Compressor**

**CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

**NOTE**

- The Compressor Kit is designed to be installed with both four-groove and five-groove water pump pulleys.
- Prior to compressor installation, the four-groove pulley must be changed to a five-groove pulley.
- If a five-groove water pump pulley is already present, skip to "Compressor Mounting."

(1) With four-groove water pump pulley only:

- a. Rotate radiator fan blade until access holes in fan blade line up with four socket head screws attaching fan clutch to four-groove pulley.
- b. Disconnect fan clutch hose.

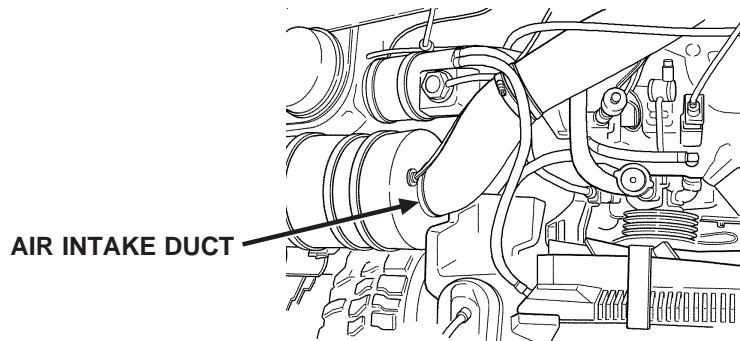
**NOTE**

If belts slip, it may be necessary to remove belts and prevent pulley from turning.

- c. Remove four bolts from fan clutch and pulley.
- d. Remove fan/fan clutch assembly.
- e. Loosen power steering and alternator belts.
- f. Remove four screws from four-groove pulley and water pump hub. Set aside screws for reinstallation.
- g. Remove four-groove pulley.
- h. Install new five-groove pulley with screws removed from four-groove pulley.
- i. Install new A/C compressor belt on front groove of water pump pulley.
- j. Reinstall fan/fan clutch assembly.
- k. Reconnect fan clutch hose.

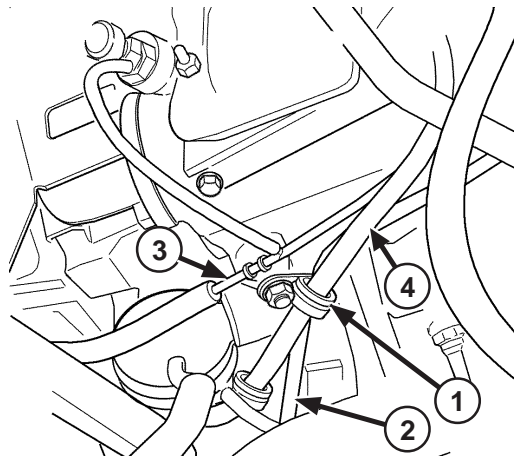
## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097, and M1097A1 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-1. Air Intake Duct Removal**

- (2) Compressor Mounting.
  - a. Mark air intake duct at the air filter housing. Remove air intake duct.
  - b. Loosen alternator and power steering pump belts.
  - c. Slip belts off alternator and power steering pump pulleys.
- (3) V-belts: Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install the longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-2. Fuel Line and Wiring Harness Clamp Removal**

- (4) Remove clamps (1). Attach fuel line (2), fuel return line (3), and wire harness (4) to engine. Set hardware aside for future use.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097, and M1097A1 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

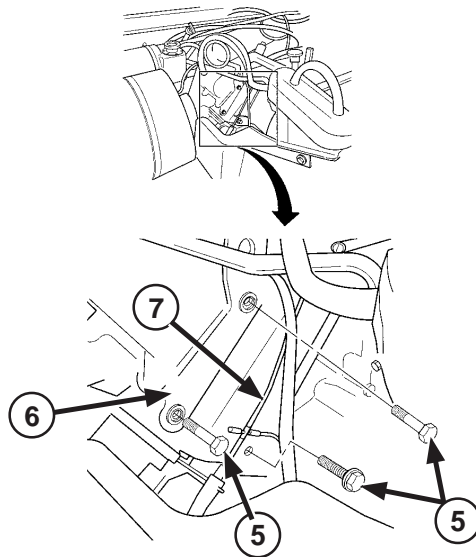


Figure 2-3. Air Intake Duct Support Bracket Removal

- (5) Remove bolts/studs (5), attach air intake duct support bracket (6) and fuel line clamps to engine.
- (6) Disconnect fuel return hose from fuel return line "T" (7).

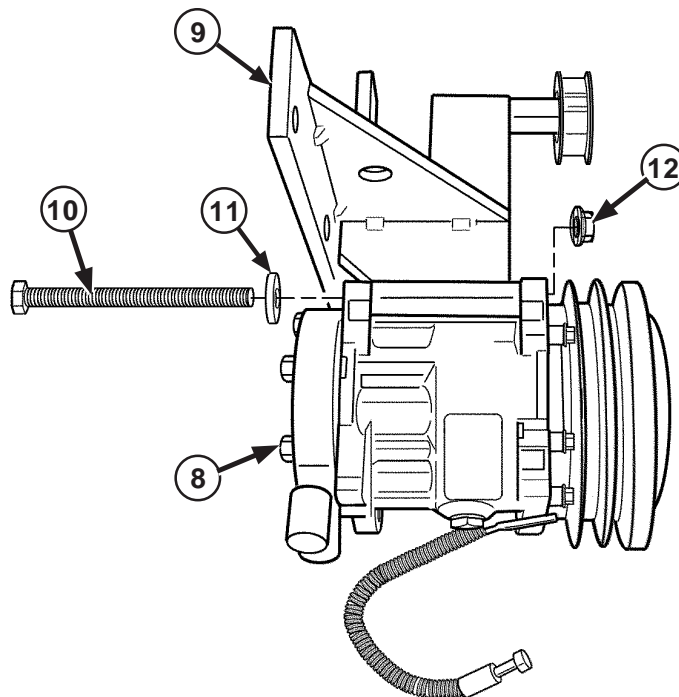


Figure 2-4. Compressor Installation

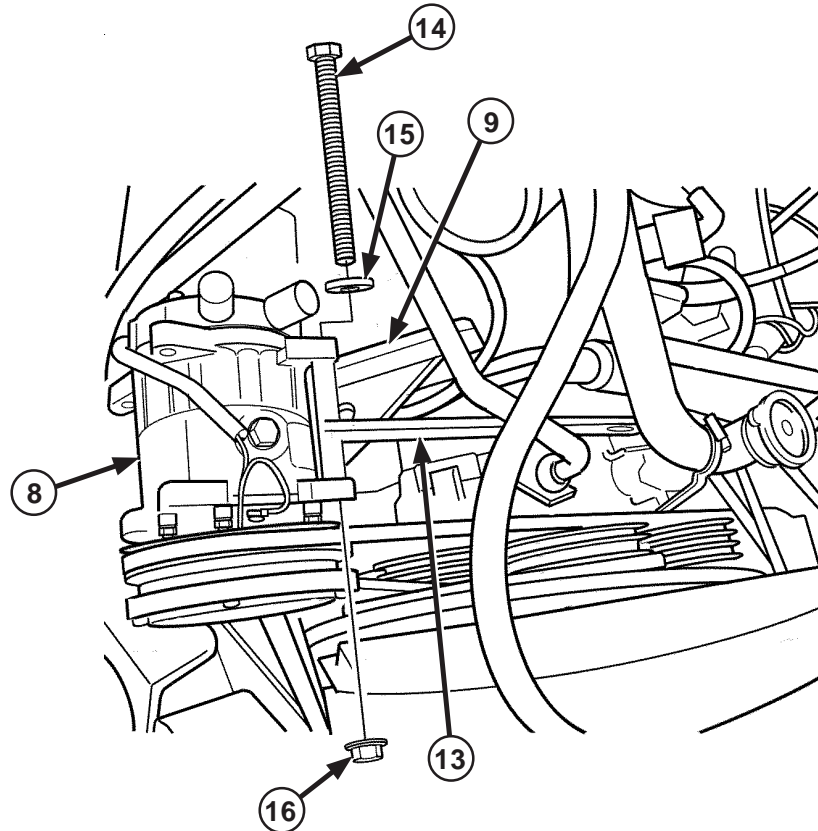
- (7) Position compressor (8) on mounting bracket (9) and secure with screw (10), washer (11), and locknut (12). Tighten bolt to 18 ft-lbs. Do not overtighten.

## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



**Figure 2-5. Compressor Adjusting Arm**

- (8) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (9) Lower mounting bracket (9) and compressor (8) onto mounting location in front left side of engine.
- (10) Position compressor adjusting arm (13) on compressor (8) and secure with screw (14), washer (15), and locknut (16). Tighten bolt to 18 ft-lbs. Do not overtighten.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

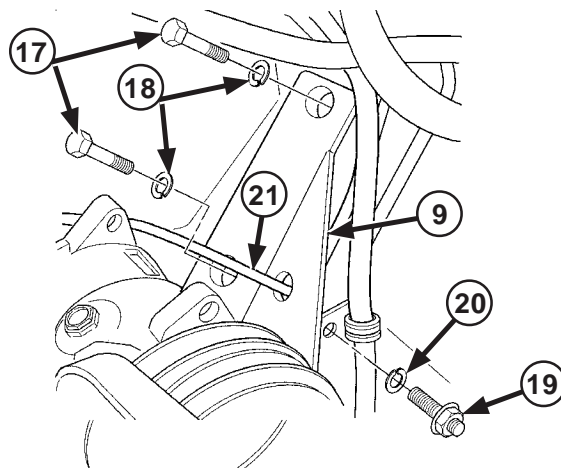


Figure 2-6. Compressor Mounting Bracket to Cylinder Head

- (11) Position lower tab of mounting bracket (9) behind fuel return line and in front of engine.
- (12) Secure mounting bracket (9) upper tabs to cylinder head with two screws (17) and lockwashers (18).
- (13) Secure mounting bracket (9) lower tabs to engine block with stud (19) and lockwasher (20). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (14) Reconnect fuel return hose (21) to fuel return line "T" through hole in mounting bracket (9).
- (15) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.
- (16) Reconnect bolts/studs attaching air intake duct support bracket and fuel line clamps to engine.

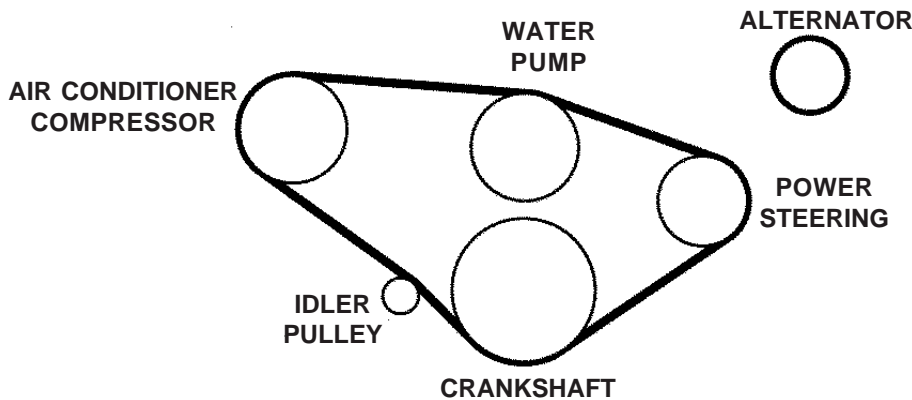


Figure 2-7. AC/Power Steering Belt

- (17) Install new AC/power steering belt on rear most groove of power steering pump pulley and behind (off the groove) of the crankshaft pulley. Slip new belt over compressor pulley (rear groove), then work belt onto rear groove of crankshaft pulley from underneath vehicle. Do not adjust tension on belt at this time.
- (18) If second belt is to be used for power steering pump, reinstall one original belt on next groove forward. Tension power steering pump belt and tighten pump bolts.

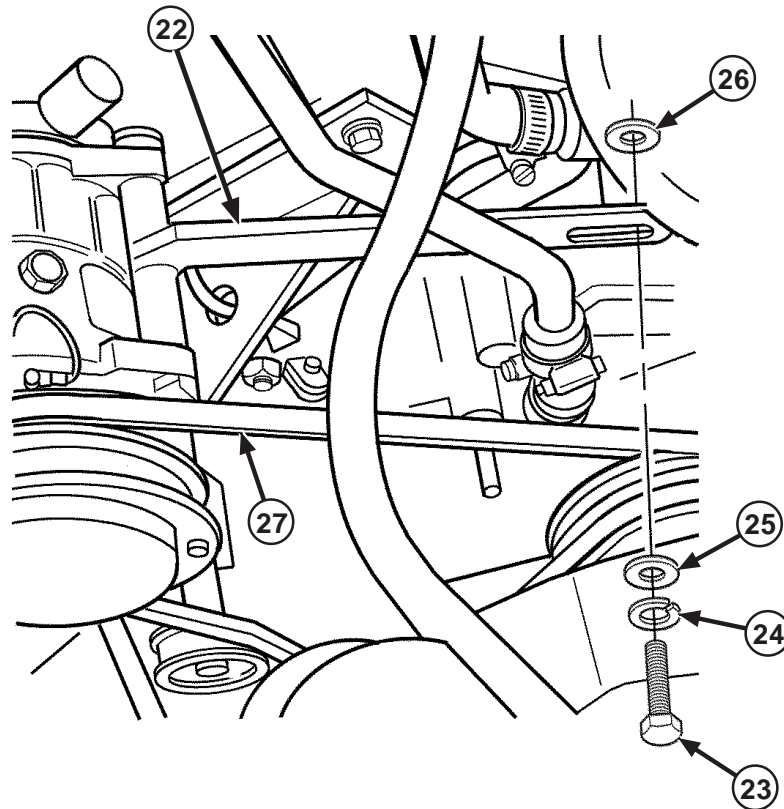


## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



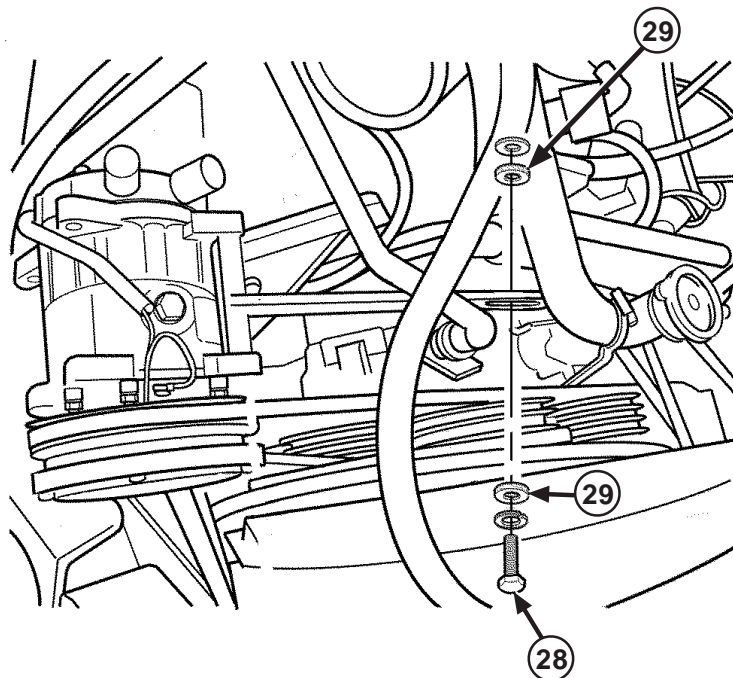
**Figure 2-8. Adjusting Arm Installation**

- (19) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (20) Secure adjusting arm (22) to water pump housing with bolt (23), lockwasher (24), washer (25), and washer (26).
- (21) Adjust tension on belt (27). Rotate compressor outboard until proper belt tension is reached.

**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**a. Install Compressor (Cont'd)**

(22) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.



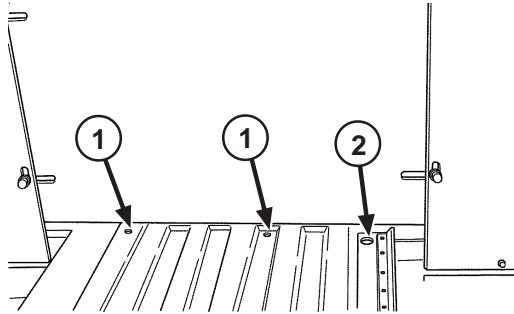
**Figure 2-9. Compressor Adjustment**

- (23) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolts (28) attaching lower radiator pipe to vehicle frame. Install two or four spacers (29) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.
- (24) Reinstall alternator belts and adjust belt tension.
- (25) Reinstall air intake duct after connecting refrigerant hoses to compressor.

## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

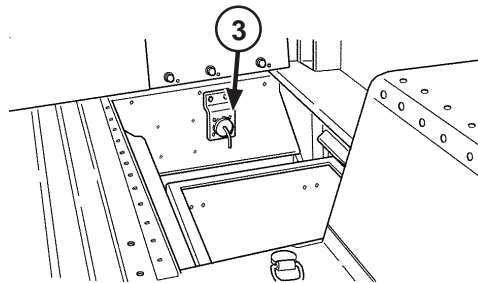
### b. Install Evaporator and Condenser

- (1) If present, remove plywood panel from between seats on top of transmission tunnel.
- (2) Remove top screws from driver's side mats and transmission tunnel.



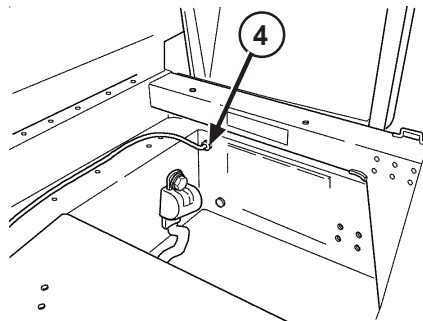
**Figure 2-10. Transmission Tunnel Hole**

- (3) Position drill template (found in Installation Kit) on transmission tunnel and tape into position. Drill two 11/16 inch (.6875 inch) holes (1) and one 11/4 inch (1.25 inch) hole (2) as shown on side of transmission tunnel.
- (4) De-burr panel.
- (5) Remove front passenger seat to expose battery box.



**Figure 2-11. Auxiliary Power Panel**

- (6) Remove either auxiliary power panel (3) or batteries to gain access to drill hole in battery box.



**Figure 2-12. Battery Box Panel Hole**

- (7) Drill 3/4 inch hole in rear battery box panel near top inboard edge.
- (8) Install grommet (4).

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

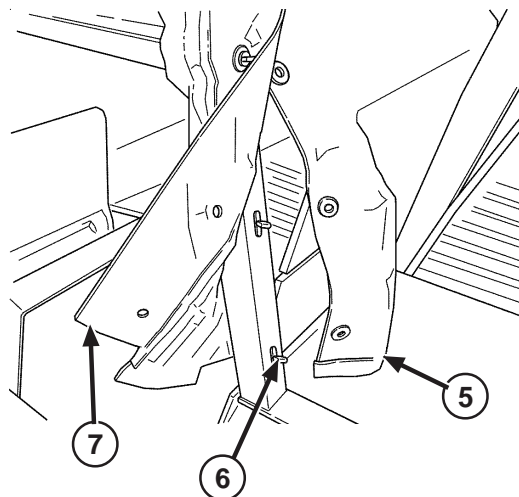


Figure 2-13. Rear and Side Curtains

- (9) Four-door vehicles only:
  - a. Remove rear curtain (5) from three lower quarter turn fasteners (6) on rear b-pillar.
  - b. Remove side curtain (7) from two lower quarter turn fasteners (6) on rear b-pillar.
  - c. Repeat for remaining side.

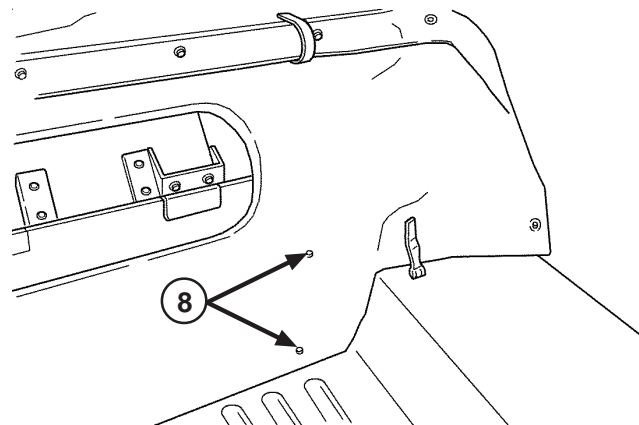
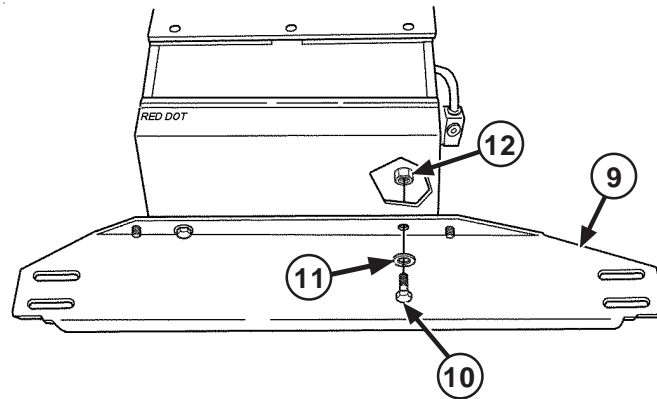


Figure 2-14. Center Armor Hardware Cutouts

- (10) Pull rear curtain down tight over rear of armor plate.
- (11) Mark and cut four crosses (8) over the bolts and nuts attaching the center armor plate to the rear side plates.
- (12) Cut crosses just large enough for nut to push through.

**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

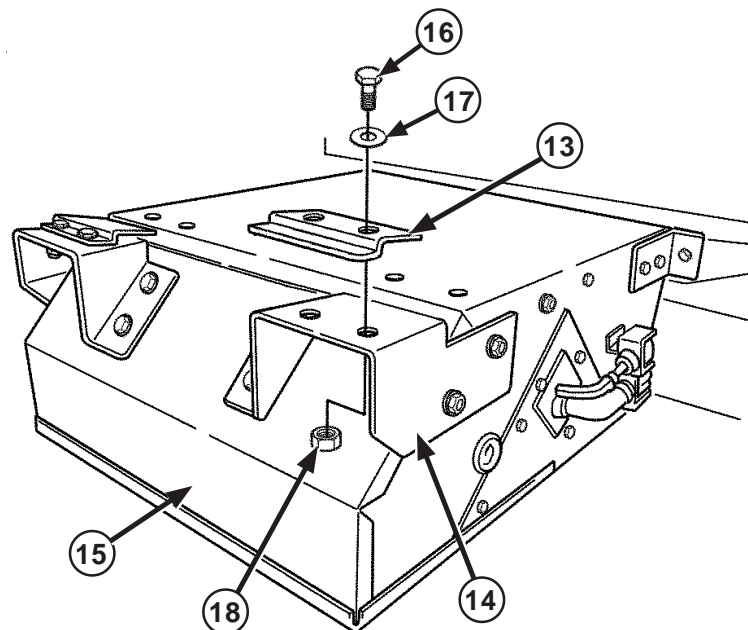
**b. Install Evaporator and Condenser (Cont'd)**



**Figure 2-15. Lower Support Bracket**

(13) Attach lower support bracket (9) to evaporator unit "L" brackets using two screws (10), flat washers (11), and locknuts (12).

(14) Attach upper clamp brackets (13).



**Figure 2-16. Upper Clamp**

(15) Four-door vehicles only:

- a. Loosely attach upper clamp brackets (13) to upper support brackets (14) on evaporator unit (15) with four screws (16), flat washers (17), and locknuts (18).

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

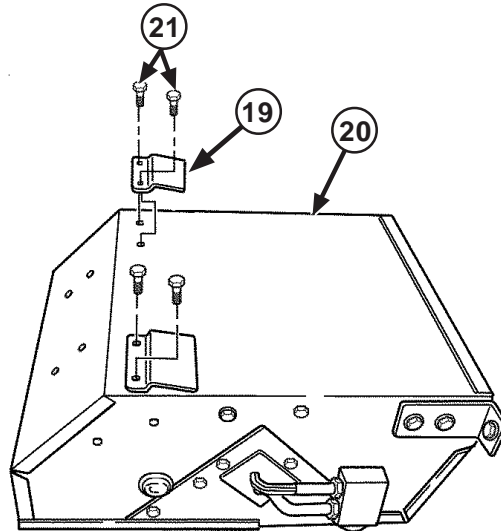


Figure 2-17. Upper Clamp Brackets (Two-Door)

- (16) Two-door vehicles only:
  - a. Remove and discard two upper support brackets from evaporator unit. Set aside bolts for future use.
  - b. Loosely attach upper clamp brackets (19) to evaporator unit (20) with four bolts (21).

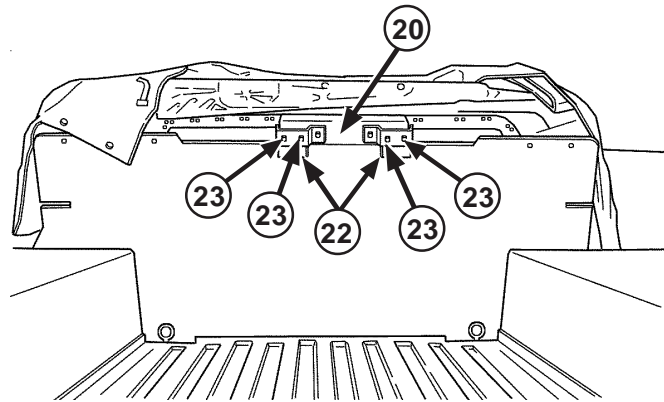


Figure 2-18. Install Evaporator Unit

- (17) Remove two lower center 1/2 inch bolts from rear center armor plate and rear side armor plates.
- (18) Hang evaporator unit (20) from inside top of armor plate (above holes drilled in transmission tunnel).
- (19) Adjust evaporator unit (20) to align slots in lower support bracket (22) with slots in center armor plate.
- (20) Tighten evaporator unit top clamp bracket bolts (23).

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

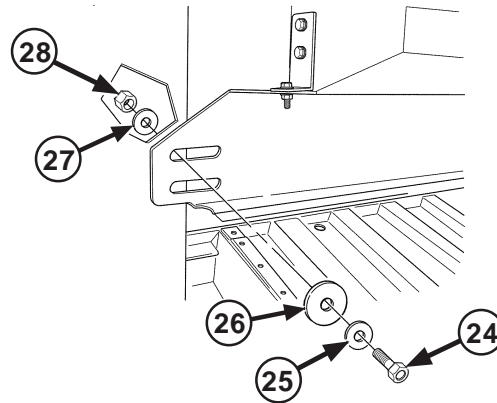


Figure 2-19. Lower Support Bracket Installation

- (21) Insert four new bolts (24), flat washers (25), and oversize washers (26) through lower evaporator support bracket, armor plates, rear curtain and condenser mount angle. Install flat washers (27) and locknuts (28) and tighten snug.

**NOTE**

For correct installation of compressor mount angles, bar in bottom of rear curtain should be below compressor mount angles and not between angles and armor plate.

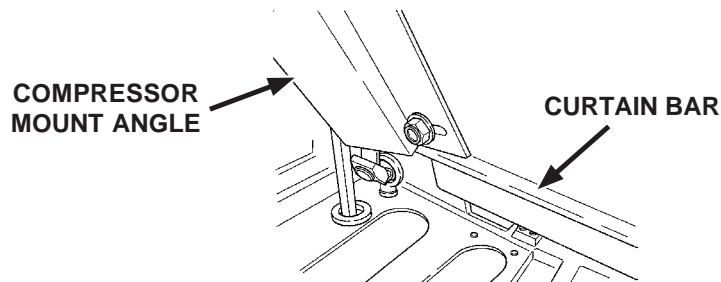


Figure 2-20. Condenser Mount Angle

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

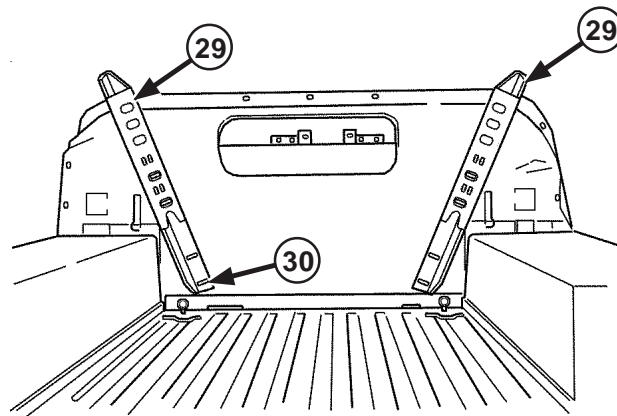


Figure 2-21. Mount Angles (Four-Door)

(22) Four-door vehicles only:

- a. Mount angles (29) with top gusseted section facing inward toward rear center of vehicle and perpendicular side facing outward.
- b. Secure with bolts in lower slot (30).

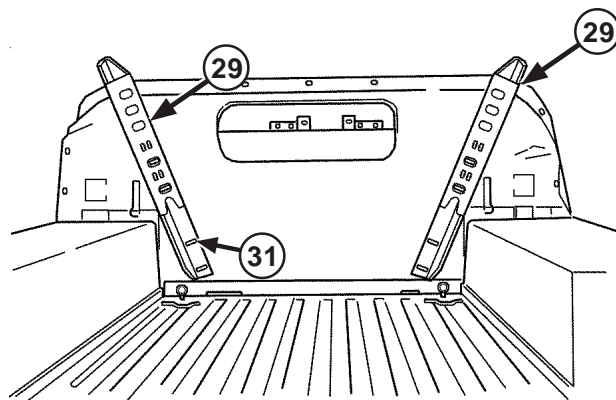


Figure 2-22. Mount Angles (Two-Door)

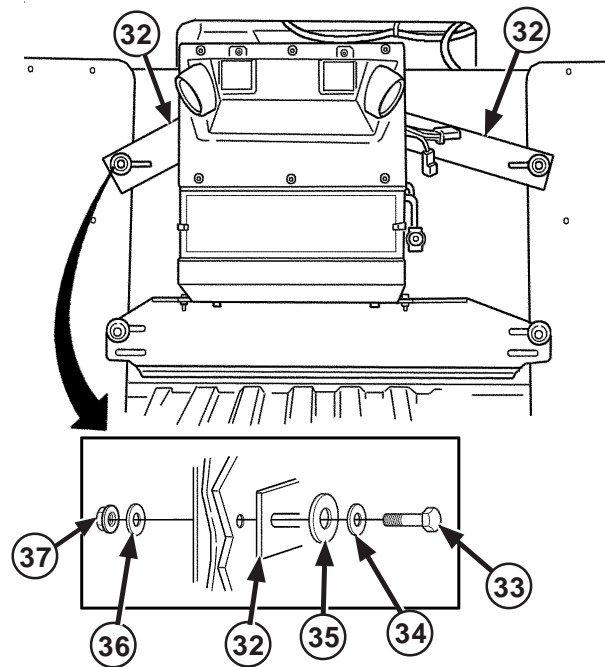
(23) Two-door vehicles only:

- a. Mount angles (29) with top gusseted section facing inward toward rear center of vehicle and perpendicular side facing outward.
- b. Secure with bolts in second slot (31) from the end of condenser mount angle.



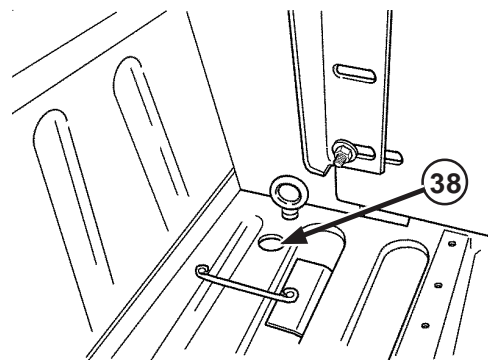
**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**b. Install Evaporator and Condenser (Cont'd)**



**Figure 2-23. Evaporator Side Brackets**

- (24) Remove two top center bolts from rear center armor plate and rear side armor plate.
- (25) Loosely attach evaporator side brackets (32) to evaporator unit with original hardware.
- (26) Position condenser mount angles over top slots in rear center armor plate.
- (27) Install bolts (33) flat washers (34), and oversize washers (35) through evaporator side brackets (32), armor plates, rear curtain, and condenser mount angles, and secure with flat washers (36) and locknuts (37). Tighten snug.



**Figure 2-24. Condenser Hose Hole (Four-Door)**

- (28) Four-door vehicles only:
  - a. Drill a 1.25 inch diameter hole (38) for condenser hose in bed floor between wheel well and driver side vertical condenser mount angle, forward of rear curtain hook.
  - b. De-burr hole.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

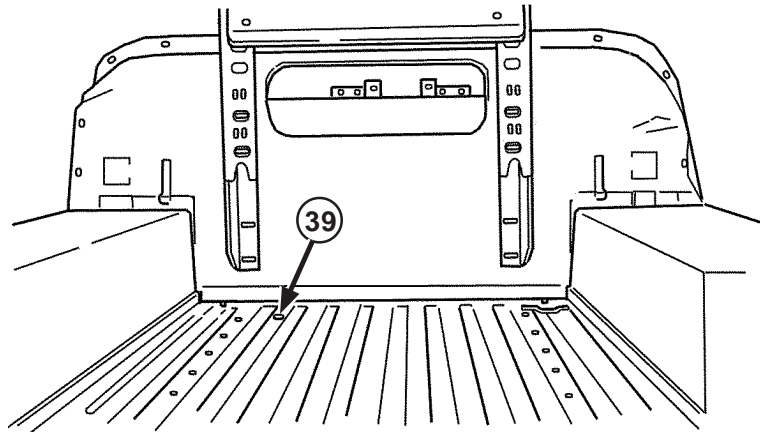


Figure 2-25. Condenser Hose Hole (Two-Door)

(29) Two-door vehicles only:

- a. Drill a 1.25 inch diameter hole (39) for condenser hose in transmission tunnel, near driver side vertical condenser mount angle.
- b. De-burr hole.

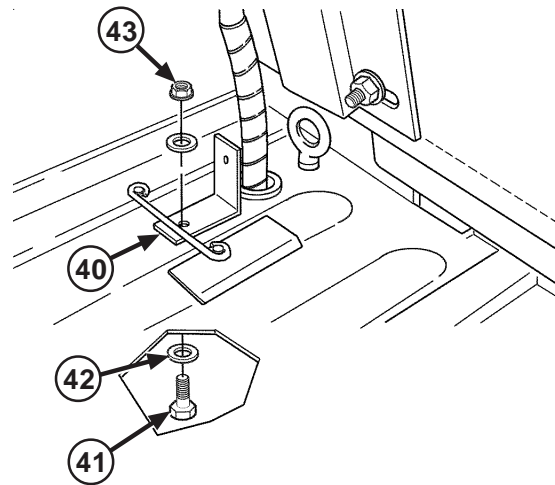


Figure 2-26. Hose Guard

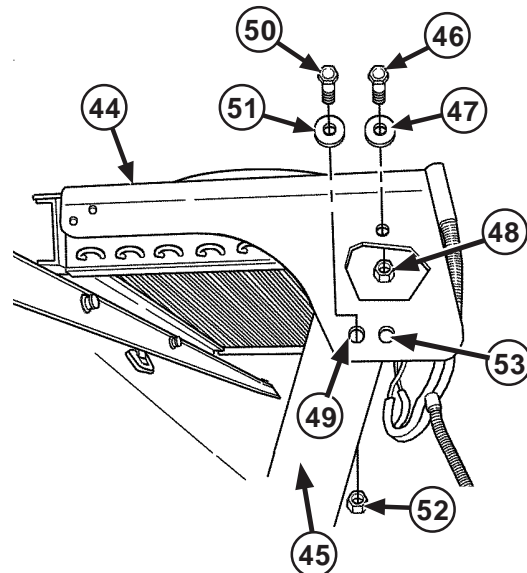
- (30) Position hose guard (40) in recessed channel of bed behind condenser hose hole.
- (31) Using hose guard (40) as a template, drill 1/4 inch diameter hole in bed.
- (32) From underneath vehicle, insert bolt (41) and washer (42) through hose guard (40) and bed.
- (33) Secure with locknut (43).

## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)

#### **CAUTION**

When handling condenser assembly, avoid damaging fins on underside of condenser. Failure to comply may cause damage to equipment.



**Figure 2-27. Condenser Assembly**

- (34) Position condenser assembly (44) on condenser mount angles (45) and secure top hole with bolt (46), flat washer (47), and locknut (48).
- (35) Rotate condenser assembly (44) to horizontal position.
- (36) Four-door vehicles only:
  - a. Secure condenser assembly (44) to condenser mount angles (45) four door hole (49) with bolt (50), flat washer (51), and locknut (52).
- (37) Two-door vehicles only:
  - a. Secure condenser assembly (44) to condenser mount angles (45) two-door hole (53) with bolt (50), flat washer (51), and locknut (52).
- (38) Tighten all mounting hardware on condenser mounting and evaporator unit mounting.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

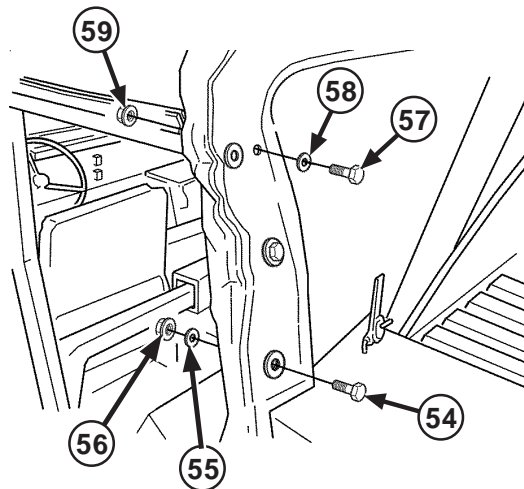


Figure 2-28. Side and Rear Curtain

(39) Four-door vehicles only:

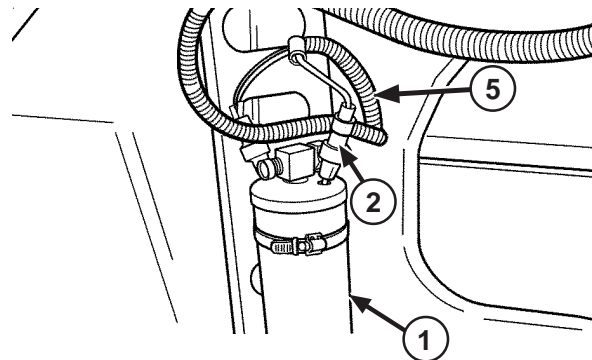
- a. Attach side curtain to rear curtain with bolts (54) through the grommets and secure with flat washers (55) and locknuts (56).
- b. Cut holes in side curtains in line with third grommet in rear curtain.
- c. Attach side curtain to rear curtain with bolt (57) through hole and third grommet and secure with flat washer (58) and locknut (59).

## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

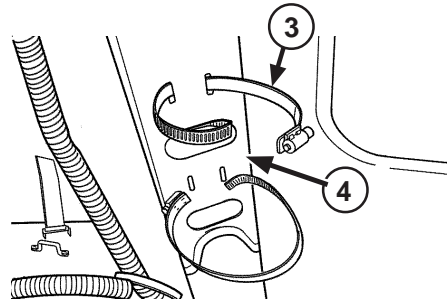
### c. Install Drier

#### **CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.



**Figure 2-29. Pressure Switches**



**Figure 2-30. Band Clamps**

- (1) Remove screw on caps from ports on top of receiver/drier (1).

#### **NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.

#### **NOTE**

For ease of installation, pre-bend end of band clamps prior to inserting in slots on driver's side condenser mount angle.

- (3) Install band clamps (3) on driver's side condenser mount angle (4).
- (4) Position receiver/drier (1) with inlet (male) fitting under condenser fittings and outlet (female) fitting pointing over top of armor plate.
- (5) Install receiver/drier in band clamps (3).
- (6) Connect condenser harness (5) to pressure switches (2) on receiver/drier (1).

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses

**CAUTION**

- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioning system. Failure to comply may cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply could result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply could result in damage to equipment.

**NOTE**

- Before connecting fittings, check to see that O-rings are present and undamaged.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses.
- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.

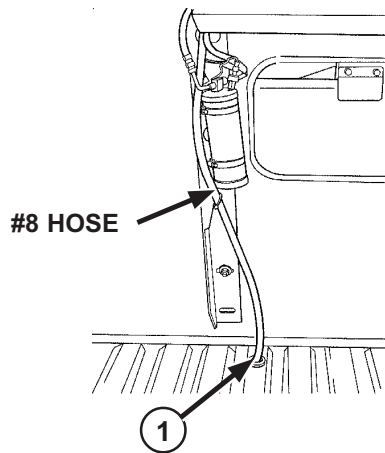


Figure 2-31. #8 Hose

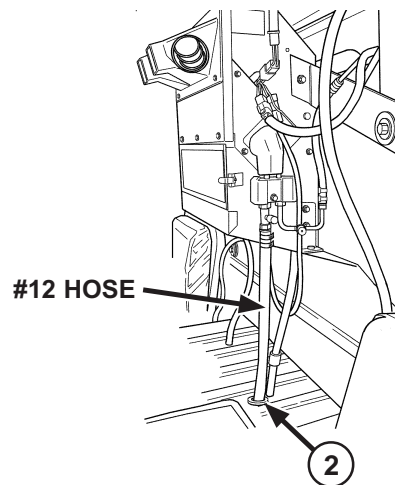


Figure 2-32. #12 Hose

- (1) Trim grommets to achieve a snug fit around #8 hose.
- (2) Install grommet (1) in hole in bed/transmission tunnel.
- (3) Trim grommet to achieve a snug fit around #12 hose.
- (4) Install grommet (2) in hole in transmission tunnel (under evaporator unit).

## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)

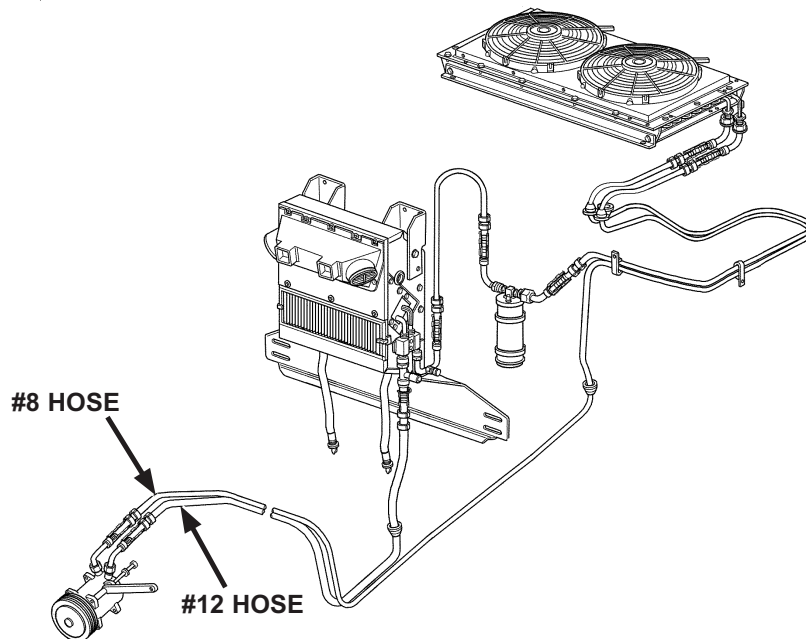


Figure 2-33. Refrigerant Hose Routing (#8 and #12)

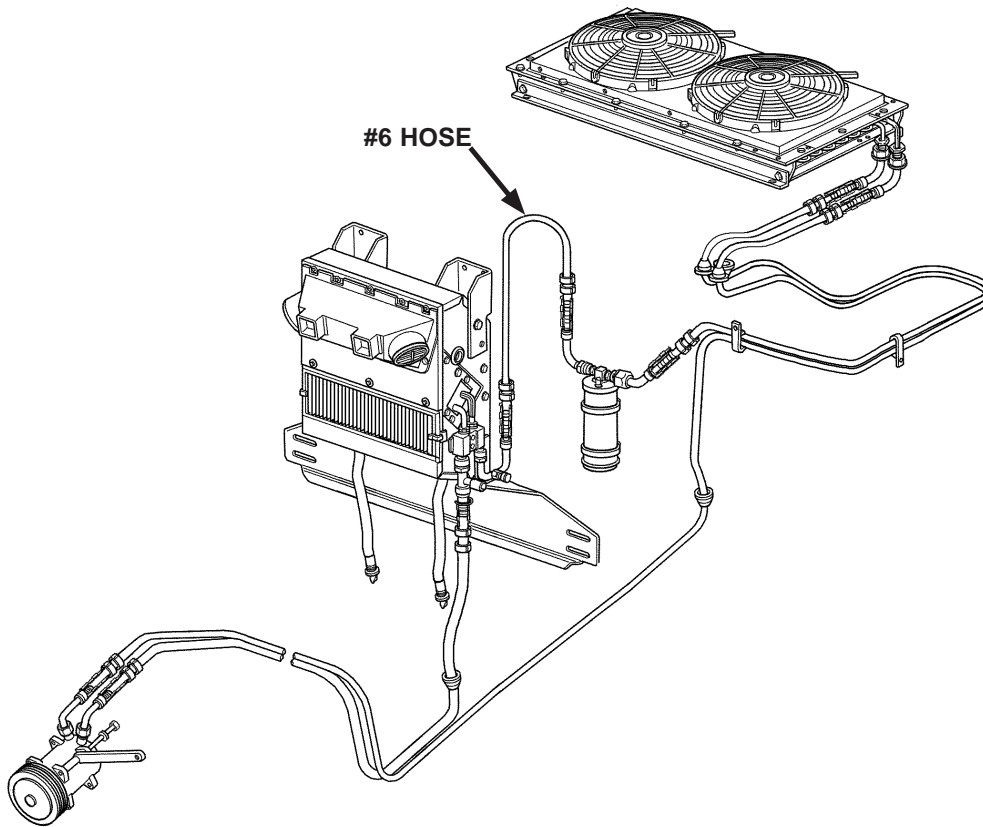
- (5) Compressor to condenser:
  - a. Four-door vehicles only, #8 hose: Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. Two-door vehicles only, #8 hose: Route hose through grommet and forward along frame rail. Continue forward and up into engine compartment near oil filter and dipstick.
- (6) Evaporator to compressor:
  - a. Four-door vehicles only, #12 hose: Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. Two-door vehicles only, #12 hose: Route hose through grommet and forward above driveshaft. Continue forward and up into engine compartment near oil filter and dipstick.
- (7) Route both #8 and #12 hoses over engine and behind air intake duct to passenger side of engine. Continue forward to compressor.

### **CAUTION**

- Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply could result in damage to equipment.
  - Hoses should span no more than two feet without being secured. Failure to comply could result in damage to equipment.
- (8) Secure #8 and #12 hoses under vehicle and along firewall.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)



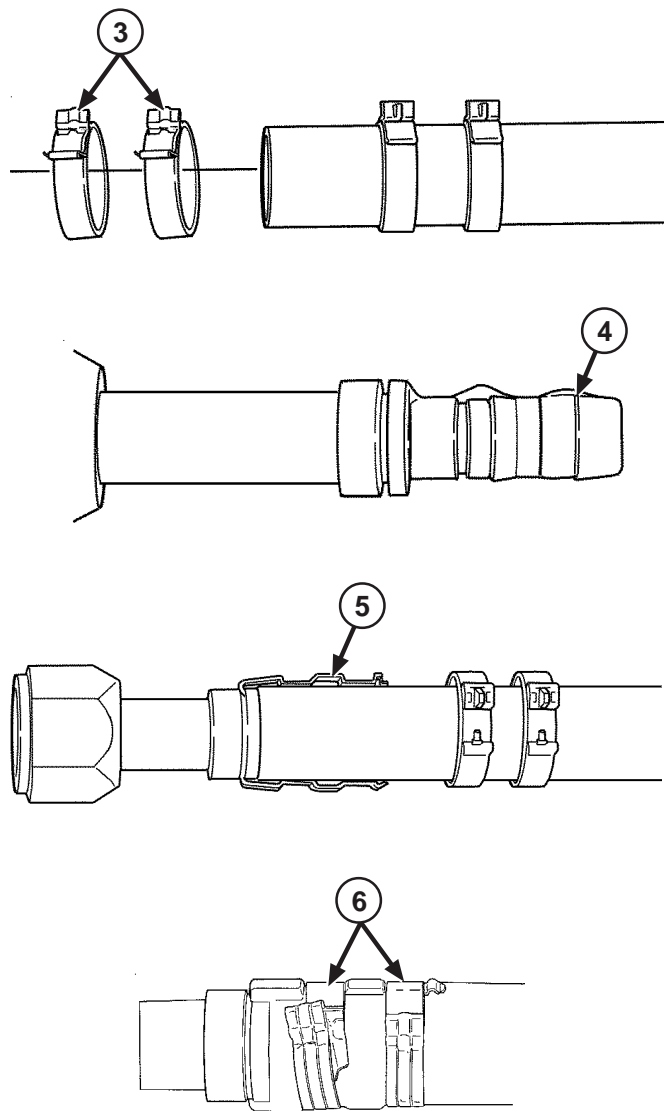
**Figure 2-34. Refrigerant Hose Routing (#6)**

- (9) Evaporator to drier, #6 hose:  
Cut a six foot section from #6 hose. Route six foot section of #6 hose through front grommet in armor floor plate, across top of transmission to driver side frame rail. Continue forward on top of frame rail. Secure to outlet (female) fitting on drier.
- (10) Drier to condenser, #6 hose:  
Route remaining length of #6 hose from inlet (male) fitting on drier up back wall of cab. Secure to #8 hose to condenser.



**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**d. Install Refrigerant Hoses (Cont'd)**



**Figure 2-35. Refrigerant Hose Preparation**

- (11) Prepare refrigerant hoses for connection:
- Cut hose to proper length. Cut should be square to hose.
  - Slide two clips (3) onto cut end of hose. Both clips should be oriented in same direction.
  - Lubricate connection nipple (4).
  - Insert nipple fully into hose.
  - Snap the cage (5) over the hose and groove on nipple. The cage should rotate in groove.
  - Slide the clips over the cage and into the grooves on nipple.
  - Close the clips. The bump and lock latch (6) alignment must be square.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

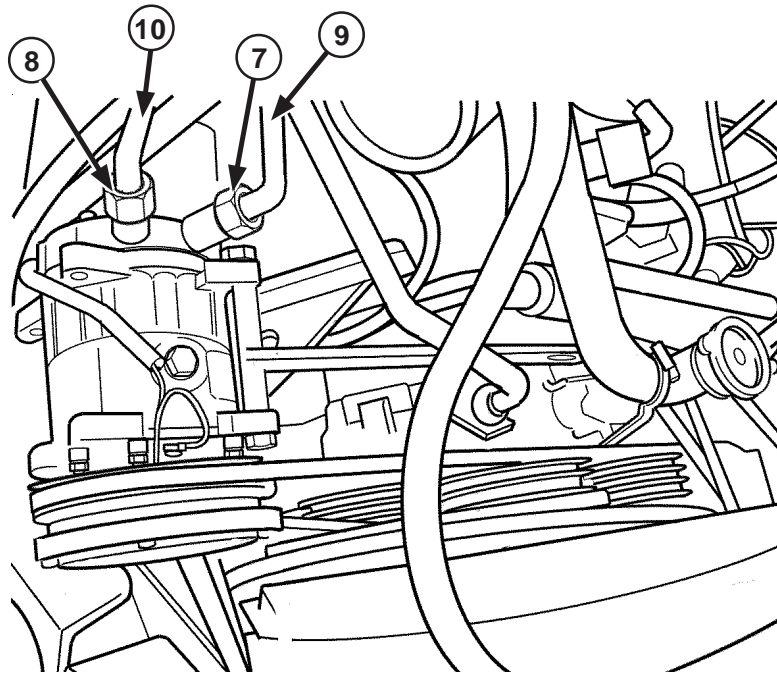
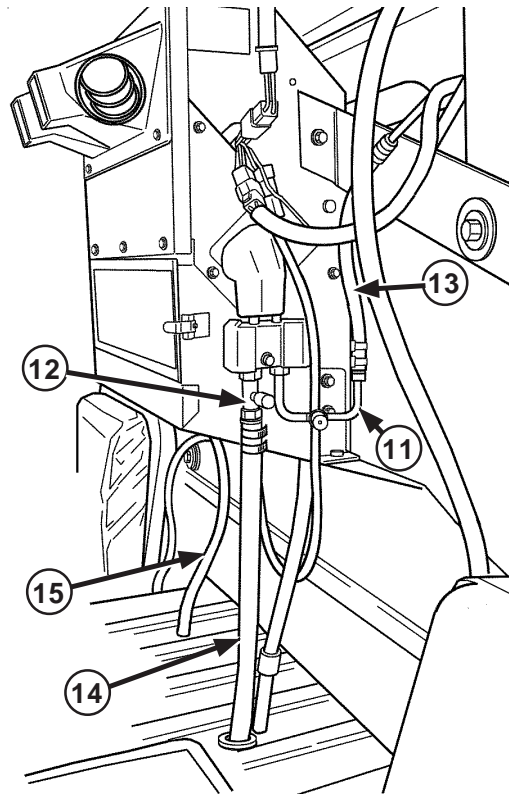


Figure 2-36. Compressor Connection

- (12) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (7) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (8) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (9) and #12 (10) hoses to length and connect to fittings.
  - e. Tighten fittings.

**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**d. Install Refrigerant Hoses (Cont'd)**

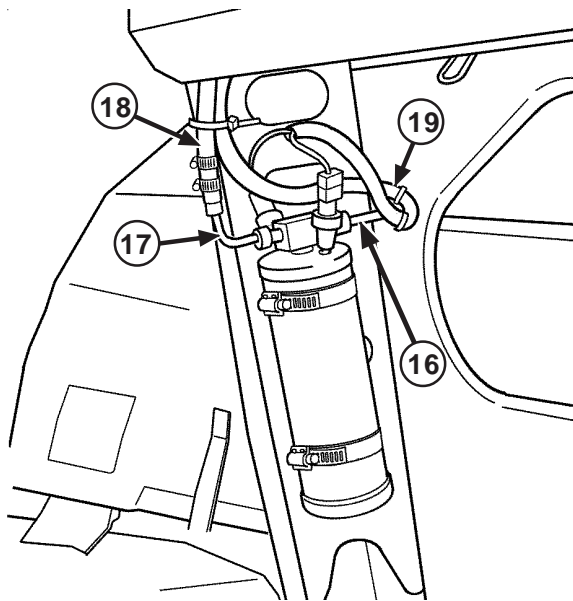


**Figure 2-37. Evaporator Connection**

- (13) Connect Evaporator.
- a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (11) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (12) on forward expansion valve connection.
  - d. Trim ends of #6 (13) and #12 (14) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (15) to reach from bottom of evaporator unit to top of transmission tunnel. Install rubber duck bill fittings onto drain hoses.
  - g. Attach drain hoses (15) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)



**Figure 2-38. Drier Connection**

- (14) Connect Drier.
  - a. Lubricate O-ring and install #6 male stainless tube (16) on drier outlet.
  - b. Lubricate O-ring and install #6 female 90° fitting (17) on drier inlet.
  - c. Trim ends of #6 hose (18) to condenser and connect to inlet (female) fitting.
  - d. Trim ends of #6 hose (19) to evaporator and connect to outlet (male) fitting.
  - e. Tighten fittings.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

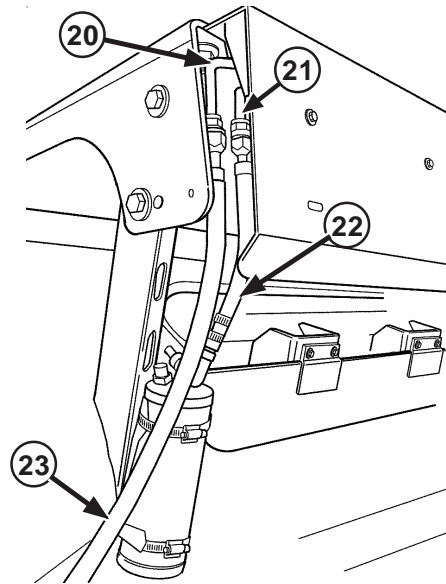


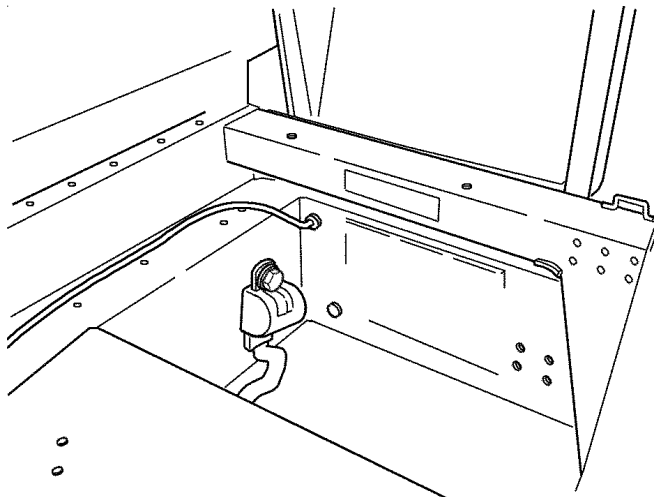
Figure 2-39. Condenser Connection

- (15) Connect Condenser.
  - a. *Four-door vehicles only:* Lubricate O-ring and install #6 female straight fitting on outlet (smaller) fitting on condenser.
  - b. *Two-door vehicles only:* Lubricate O-ring and install #6 female 45° fitting (20) on outlet (smaller) fitting on condenser.
  - c. Lubricate O-ring and install #8 female straight fitting (21) to inlet (larger) fitting on condenser.
  - d. Trim ends of #6 hose (22) from drier and connect to right fitting.
  - e. Trim ends of #8 hose (23) from compressor and connect to left fitting.
- (16) Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**e. Install Electrical Harnesses**

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).



**Figure 2-40. Routing**

- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. *Four-door vehicles only:* Route wires forward along transmission tunnel, then through grommet and into battery box.
  - h. *Two-door vehicles only:* Route wires through grommet and into battery box.

## 2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

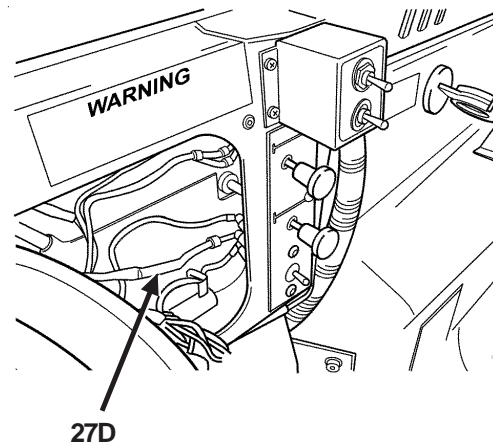
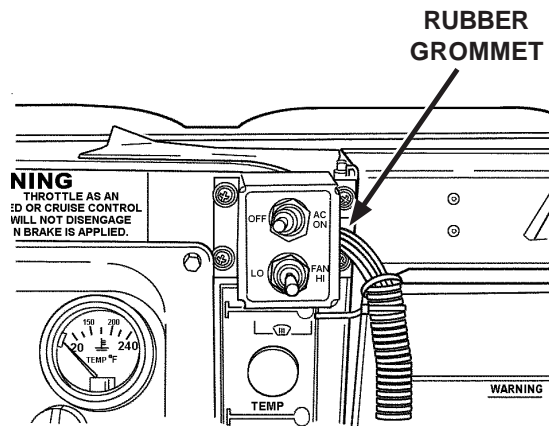


Figure 2-41 Electrical Harness Routing (Evaporator)

Figure 2-41.1 Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open PDP.
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled "27D") supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close PDP and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).

e. Install Electrical Harnesses (Cont'd)

**NOTE**

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

(5) Drier.

Connect extension harness (RD-4-5958-0) to pressure switches on drier.

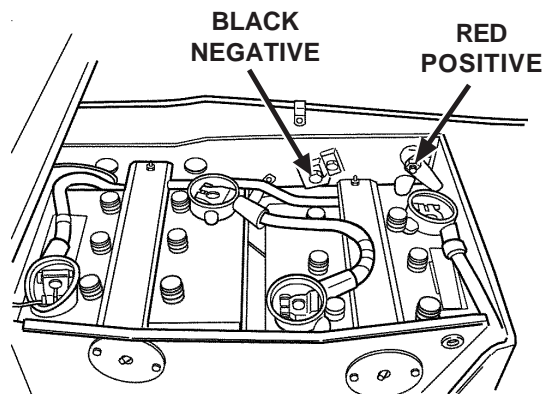


Figure 2-42. Battery Connection

(6) Battery Box.

- a. Attach **RED** wire of power and ground harness to POSITIVE terminal of battery.
- b. Attach **BLACK** wire of power and ground harness to screw on NEGATIVE ground shunt.
- c. Connect batteries.
- d. Check for 24 Volts DC.

f. Secure and Wrap Hoses and Harnesses

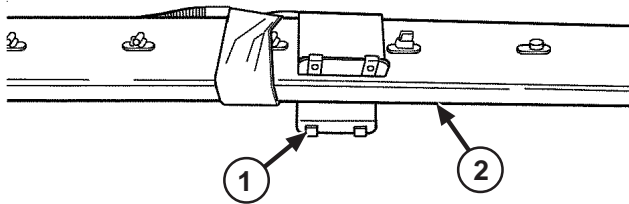
**CAUTION**

- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
  - Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
  - Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.
- (1) Install around refrigerant lines and compressor harness in engine compartment.
  - (2) Secure with nylon ties.

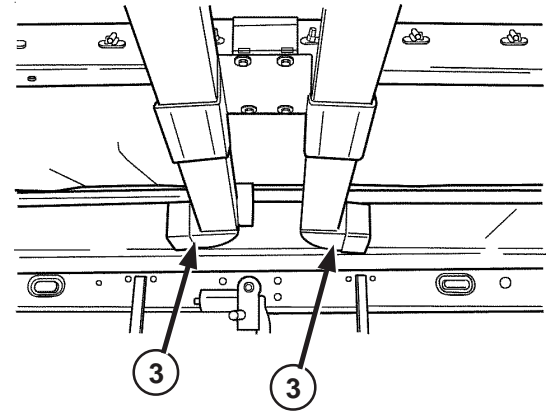


**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

**g. Air Distribution Ducting**

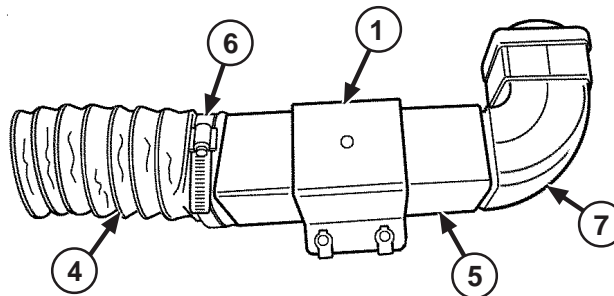


**Figure 2-43. Attaching Ducting**



**Figure 2-44. 90° Elbows**

- (1) Four-door vehicles without ring turret only:
  - a. Attach square ducting to plenum.
  - b. Using support brackets (1), clamp ducting to b-pillar (2).
  - c. Attach 90° elbows (3) to forward end of ducts to turn air toward driver and front passenger.
  - d. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.



**Figure 2-45. Flex Hose/90° Elbows**

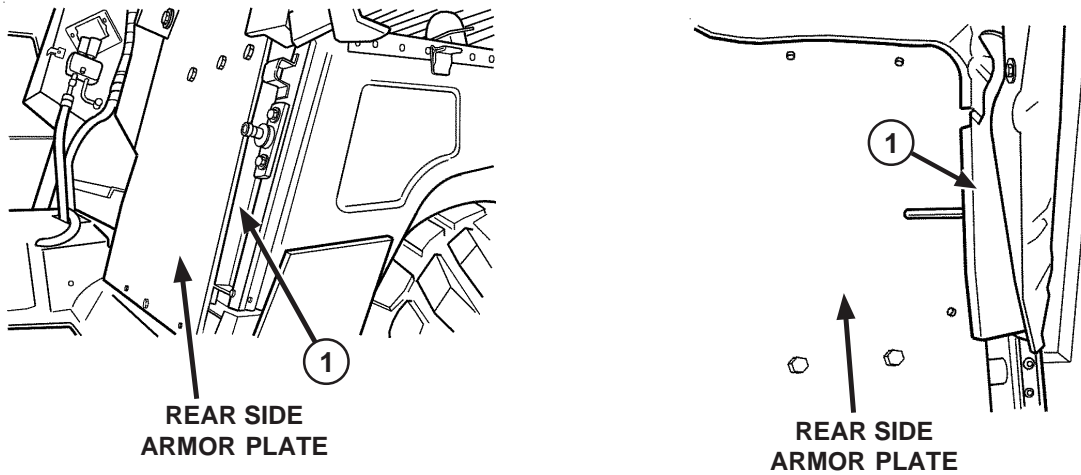
- 2) Four-door vehicles with ring turret only:
  - a. Pre-bend band clamps and flex hose into 2.5 inch square.
  - b. Attach flex hose (4) to plenum (5) with band clamps (6). Do not overtighten.
  - c. Cut two eight inch sections of square ducting.
  - d. Attach 90° elbows (7) with louvers to one end of each eight inch section.
  - e. Apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.
  - f. Attach flex hose (4) to end of duct.
  - g. Secure duct to clamps with screws.
  - h. Attach ducts with louvers in desired locations with support brackets (1) and screws.

**2-1.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 with GSIE Add-on-Armor (Cont'd).**

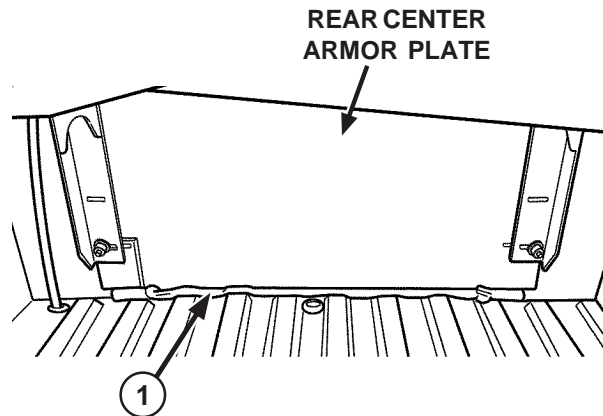
**g. Air Distribution Ducting (Cont'd)**

- (3) Two-door vehicles only:
  - a. Cut off male end of 90° elbows so the elbows fit over the square outlets on the plastic plenum.
  - b. Attach 90° elbows to plenum.
  - c. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

**h. Prepare System for Use**



*Figure 2-46. Rear Side Armor Plates*



*Figure 2-47. Rear Center Armor Plate*

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).

**2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor.****WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

**CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

**NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnect/reconnect battery.
  3. Route and attach power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor

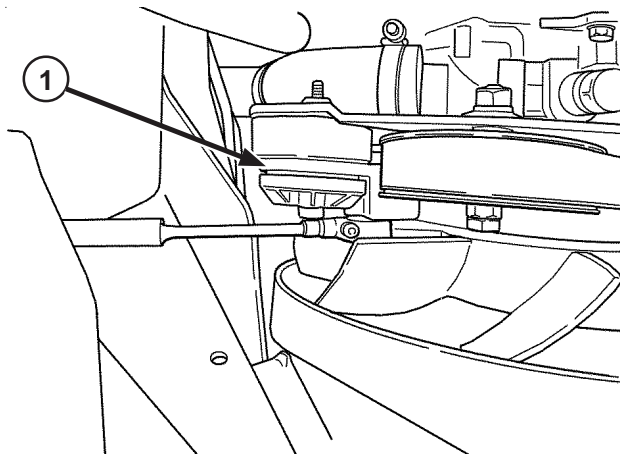
#### **CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

#### **NOTE**

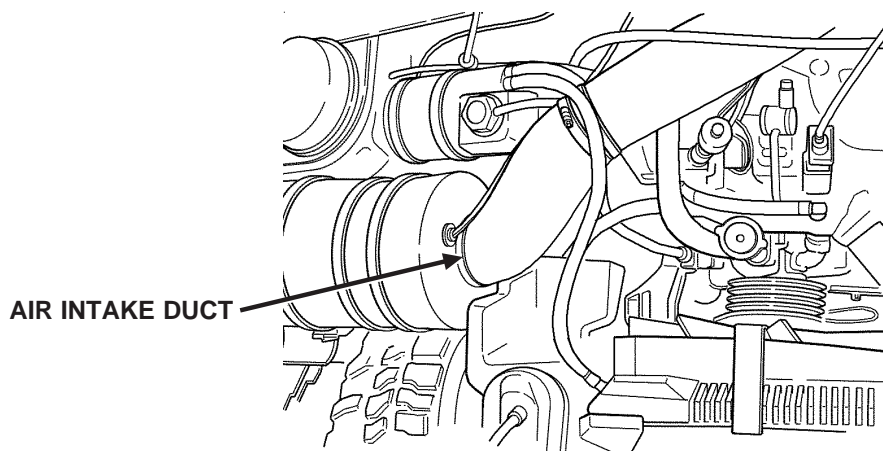
The Compressor Kit is designed to be installed with both versions of the liten serpentine belt drive systems.

#### **Compressor Mounting Model RD-9-10012-0:**



**Figure 2-48. Breaker Bar**

- (1) Using a 3/8 ratchet or breaker bar, rotate belt tensioner (1). Slip belt off passenger side grooved idler pulley. Remove belt.

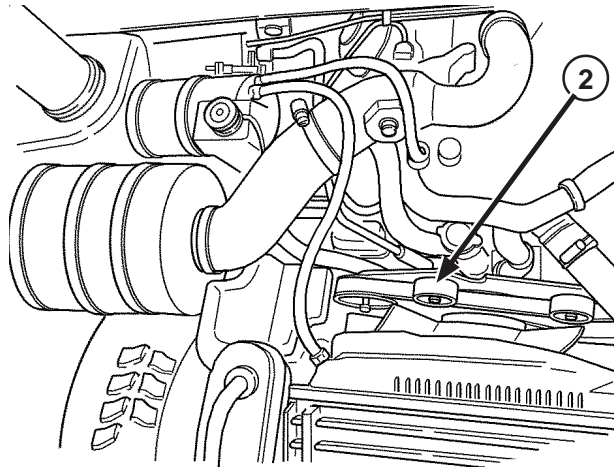


**Figure 2-49. Air Intake Duct Removal**

- (2) Mark air intake duct at the air filter housing. Remove air intake duct.

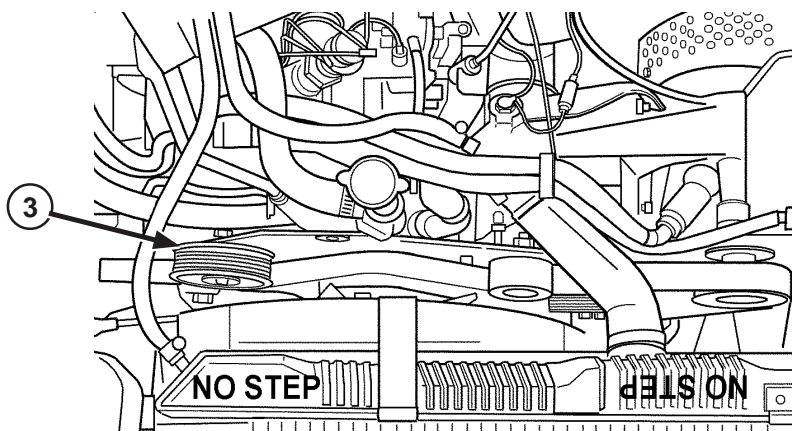
## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-50. Center Flat Idler Pulley**

- (3) Remove center flat idler pulley (2) from engine pulley plate.
- (4) Loosen alternator and power steering pump belts.
- (5) Slip belts off alternator and power steering pump pulleys.
- (6) V-belts. Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator, and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install be longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-51. 5-Inch Idler Pulley Removal**

- (7) Remove passenger side grooved 5-inch idler pulley (3).

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

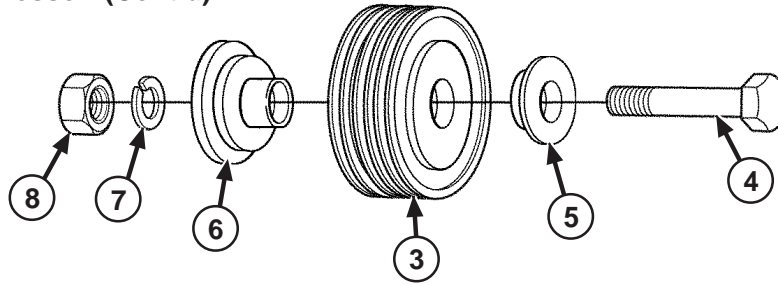


Figure 2-52. 5-Inch Idler Pulley

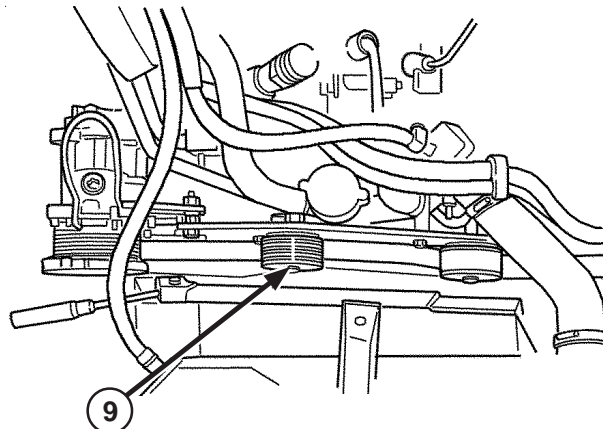


Figure 2-53. 3-Inch Idler Pulley

- (8) Remove bolt (4), washer (5), bushing (6), lockwasher (7), and nut (8) from 5-inch idler pulley (3). Set aside.
- (9) Install new 3-inch grooved idler pulley (9) where center flat idler pulley was removed.
- (10) Secure with hardware from 5-inch pulley (3).

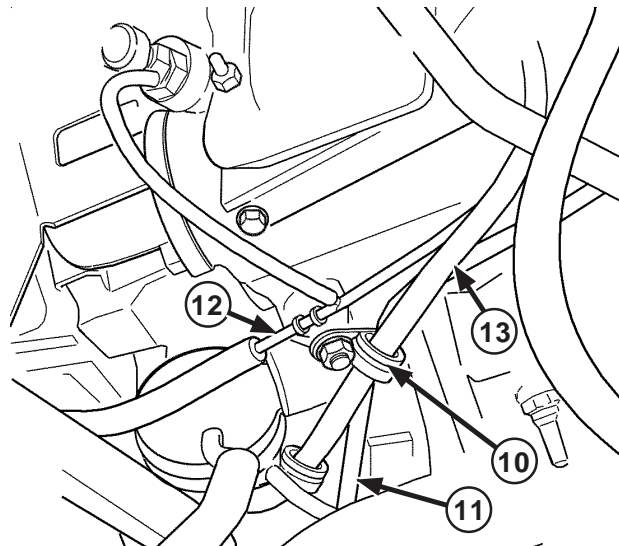
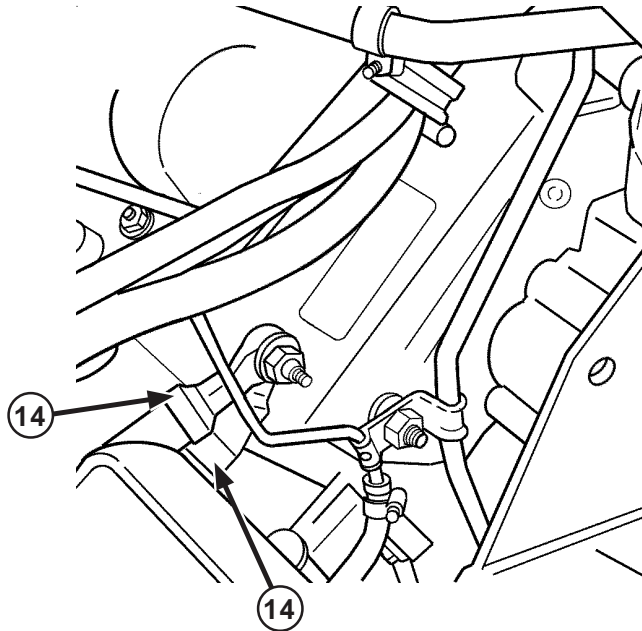


Figure 2-54. Compressor Installation

- (11) Remove clamps (10). Attach fuel line (11), fuel return line (12), and wire harness (13) to engine. Set hardware aside for future use.

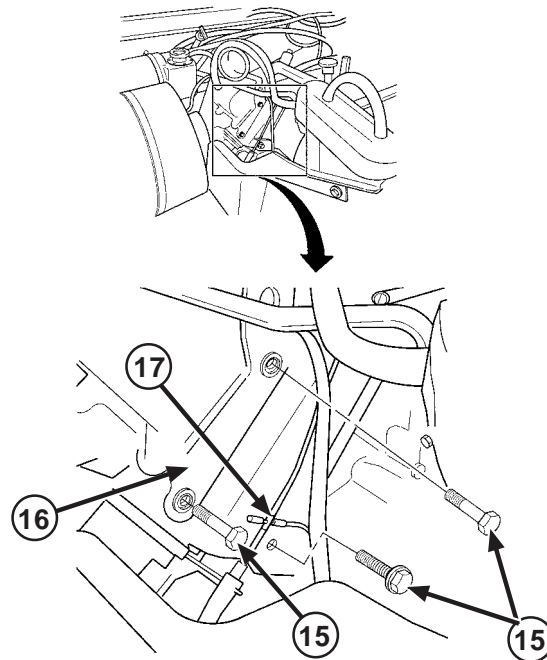
## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-55. Ground Cables Disconnect**

- (12) Disconnect ground cables (14) from lower cylinder head stud. Set aside hardware.

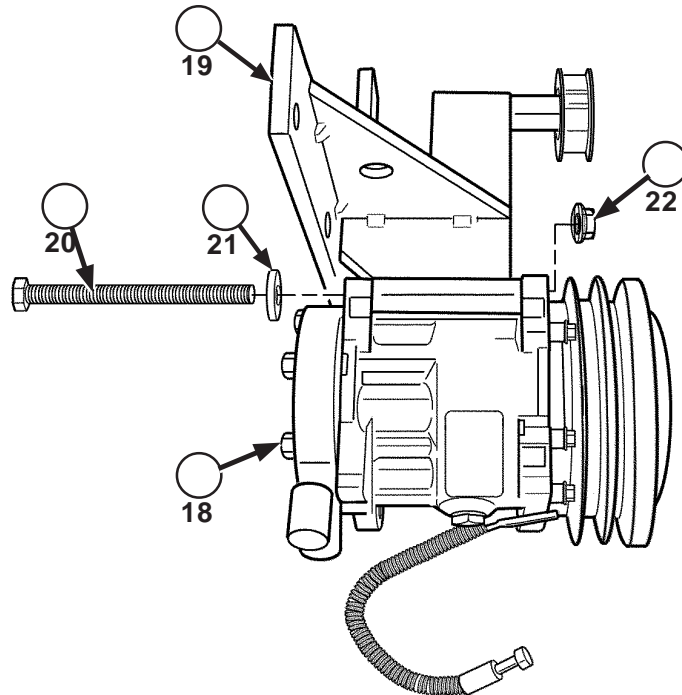


**Figure 2-56. Air Intake Duct Support Bracket**

- (13) Remove bolts/studs (15), attaching air intake duct support bracket (16) and fuel line clamps to engine.
- (14) Disconnect fuel return hose from fuel return line "T" (17)

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Con't).

a. Install Compressor (Cont'd)



**Figure 2-57. Compressor Installation**

- (15) Position compressor (18) on mounting bracket (19) and secure with screw (20), washer (21), and locknut (22). Tighten bolt to 18 ft-lbs. Do not overtighten.



## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

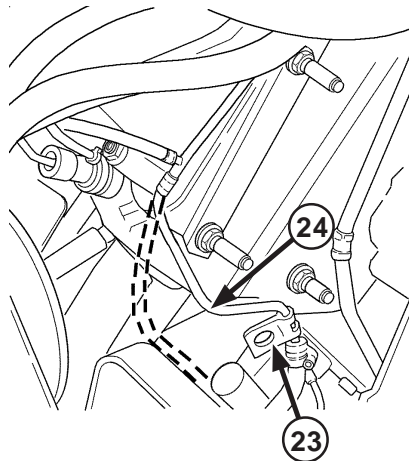
### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

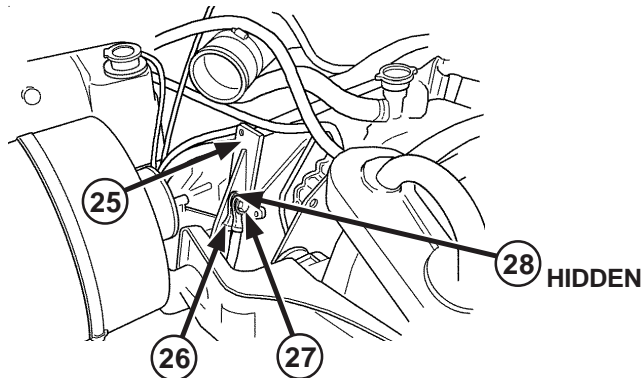
#### **NOTE**

To achieve good electrical ground, make sure no paint is present under ground cables, in threaded hole, or on mounting surface.



**Figure 2-58. Clamp and Fuel Vent Line**

- (16) Loosen clamp (23) attaching fuel vent line (24) to valve cover stud.
- (17) Bend fuel vent line slightly rearward to clear compressor mount bracket.

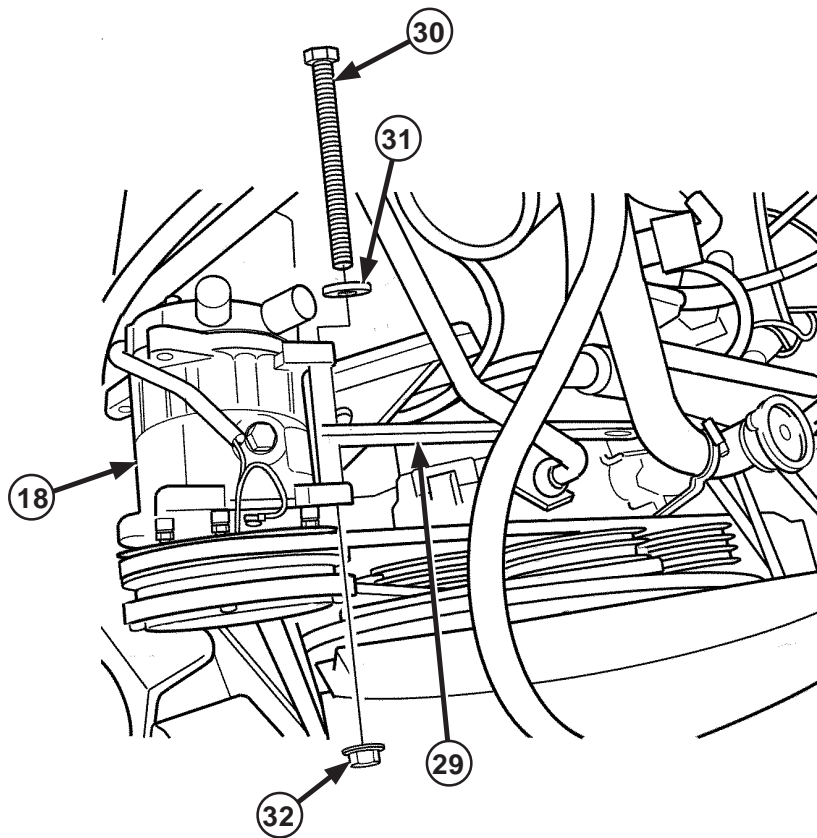


**Figure 2-59. Mounting Bracket and Ground Cables**

- (18) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (19) Lower mounting bracket (25) and compressor onto mounting location in front left side of engine.
- (20) Secure ground cables (26) to mounting bracket (25) with original bolt (27) and washers (28).

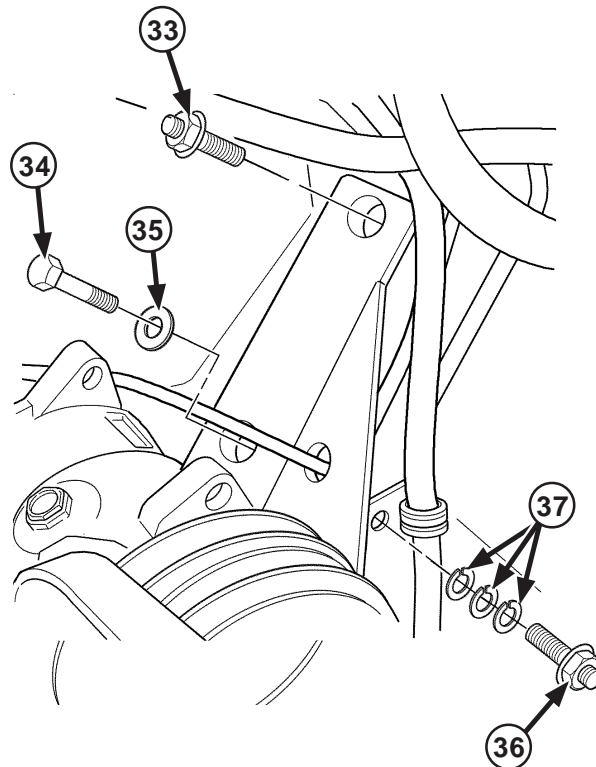
2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)



*Figure 2-60. Compressor Adjusting Arm*

(21) Position compressor adjusting arm (29) on compressor (18) and secure with bolt (30), washer (31), and locknut (32). Tighten bolt to 18 ft-lbs. Do not overtighten.

**2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).****a. Install Compressor (Cont'd)**

**Figure 2-61. Compressor Mounting Bracket to Cylinder Head**

- (22) Secure mounting bracket upper tabs to cylinder head with stud (33), bolt (34), and lockwasher (35).
- (23) Secure mounting bracket lower tabs to engine block with stud (36) and three lockwashers (37). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (24) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd).

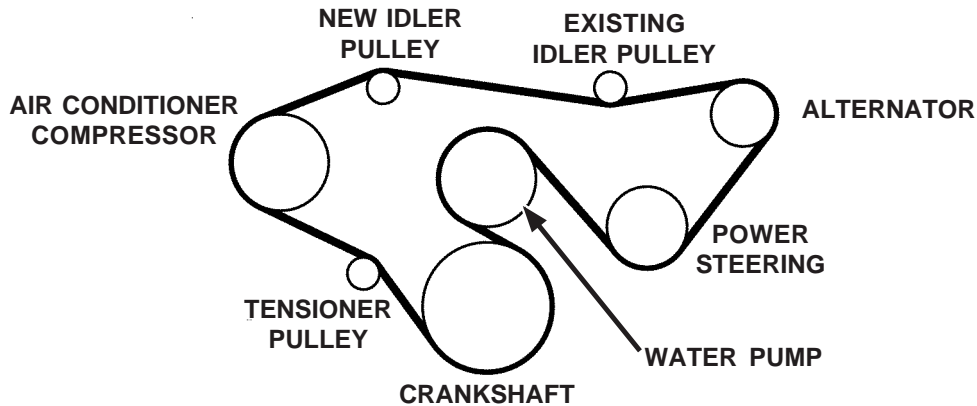


Figure 2-62. AC/Power Steering Belt

(25) Install new AC/power steering belt as shown.

**WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

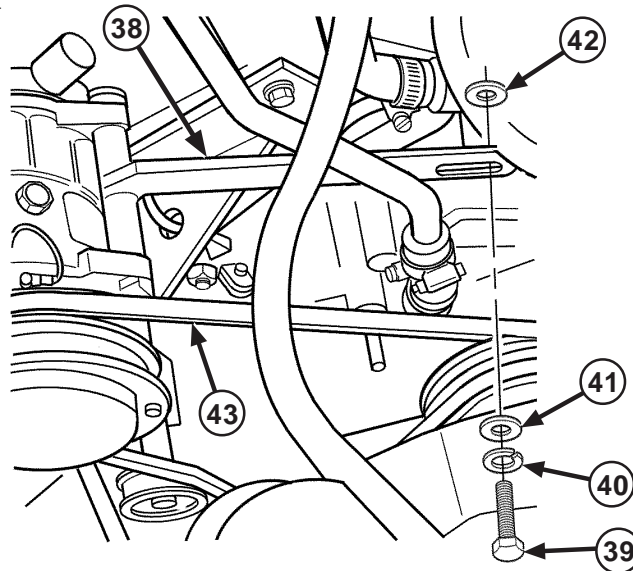
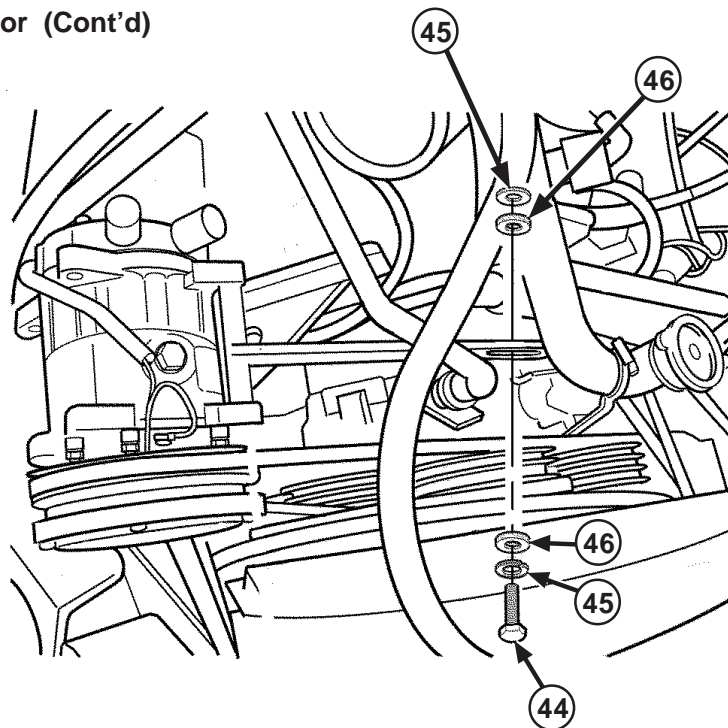


Figure 2-63. Adjusting Arm Installation

- (26) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (27) Secure adjusting arm (38) to water pump housing with bolt (39), lockwasher (40), washer (41), and washer (42).
- (28) Adjust tension on belt (43). Rotate compressor outboard until proper belt tension is reached.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-64. Compressor Adjustment**

- (29) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.
- (30) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolts (44), and lockwashers (45) attaching lower radiator pipe to vehicle frame. Install two or four spacers (46) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.
- (31) Reinstall alternator belts and adjust belt tension.
- (32) Reinstall air intake duct after connecting refrigerant hoses to compressor.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

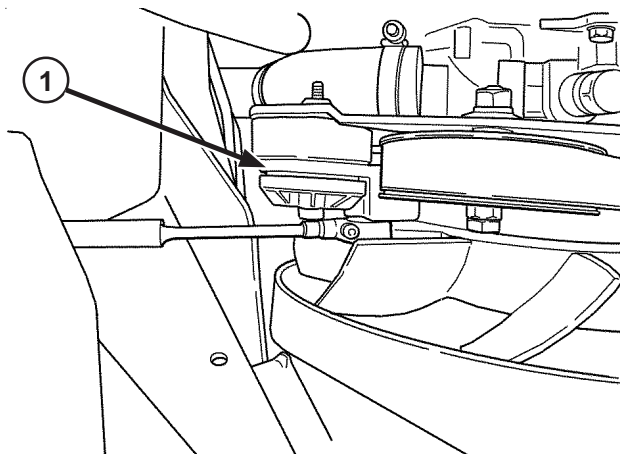
#### **CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

#### **NOTE**

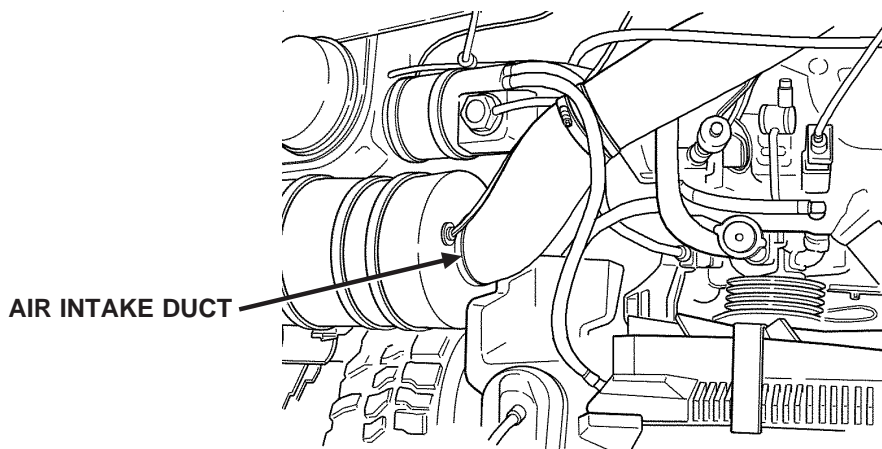
The Compressor Kit is designed to be installed with both versions of the liten serpentine belt drive systems.

#### **Compressor Mounting Model 2-4114-0:**



**Figure 2-65. Breaker Bar**

- (1) Using a 3/8 ratchet or breaker bar, rotate belt tensioner (1). Slip belt off passenger side grooved idler pulley. Remove belt.



**Figure 2-66. Air Intake Duct Removal**

- (2) Mark air intake duct at the air filter housing. Remove air intake duct.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

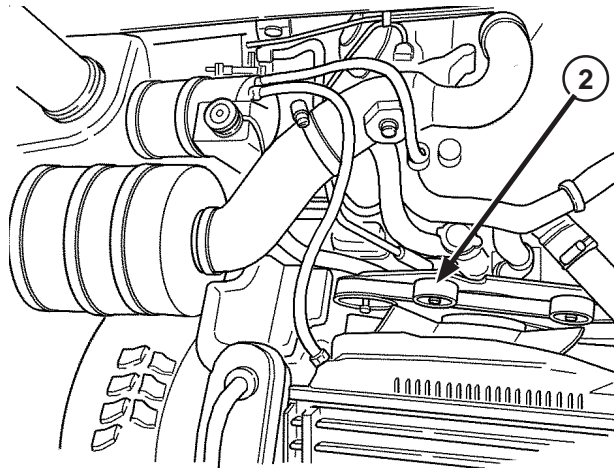


Figure 2-67. Center Flat Idler Pulley

- (3) Remove center flat idler pulley (2) from engine pulley plate.

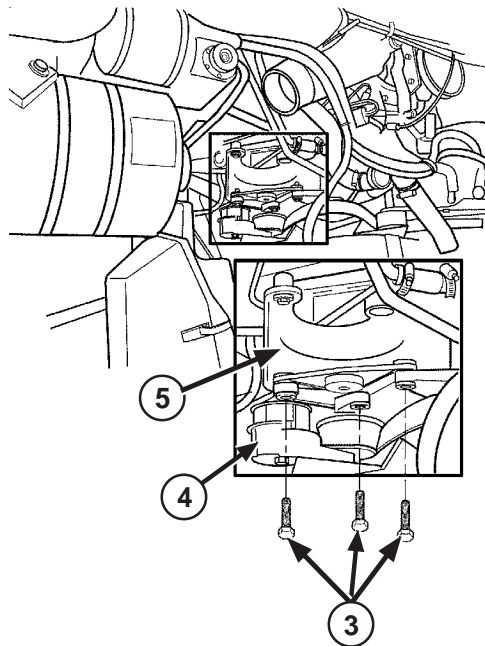


Figure 2-68. Idler Pulley Bracket Removal

- (4) Remove three bolts (3) and idler pulley bracket (4) from tensioner mount bracket (5).

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

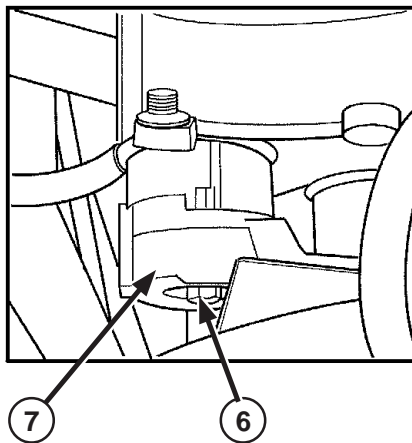


Figure 2-69. Tensioner Bracket Removal

- (5) Remove bolt (6) and tensioner mount bracket (7). Set tensioner and hardware aside for future use.

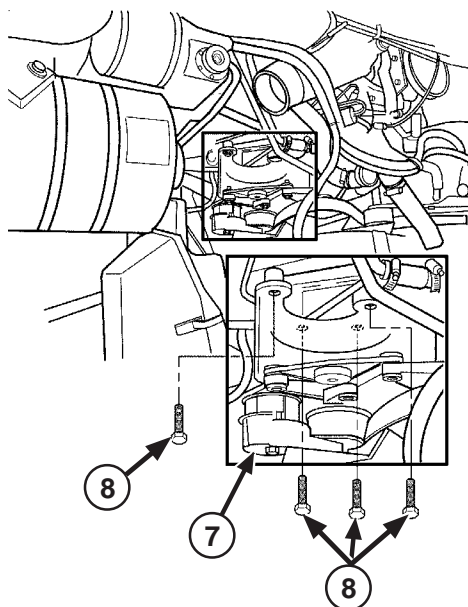


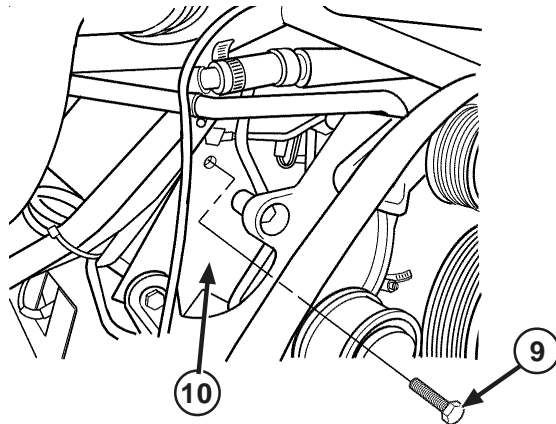
Figure 2-70. Tensioner Mount Bracket Removal

- (6) Remove four bolts (8) and tensioner mount bracket (7) from engine. Set hardware aside for future use.



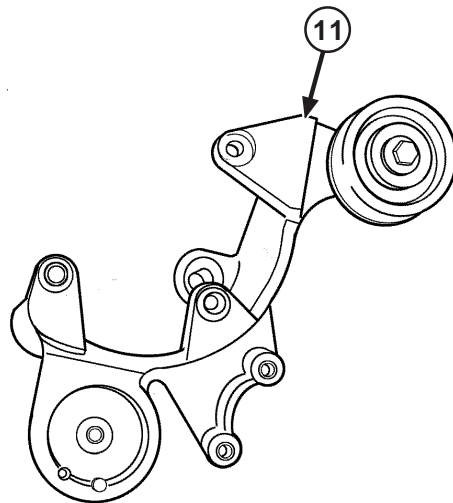
## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-71. Engine Lift Bracket**

- (7) Remove upper bolt (9) from engine lift bracket (10) and cylinder head.



**Figure 2-72. Belt Tensioner**

- (8) Position drill template on tensioner mounting surface of tensioner mount bracket (11).  
 (9) Drill 3/8 inch (.375 in) diameter hole in new location.  
 (10) Verify that tensioner center bolt can be installed with tensioner stop pin inserted in drilled hole.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

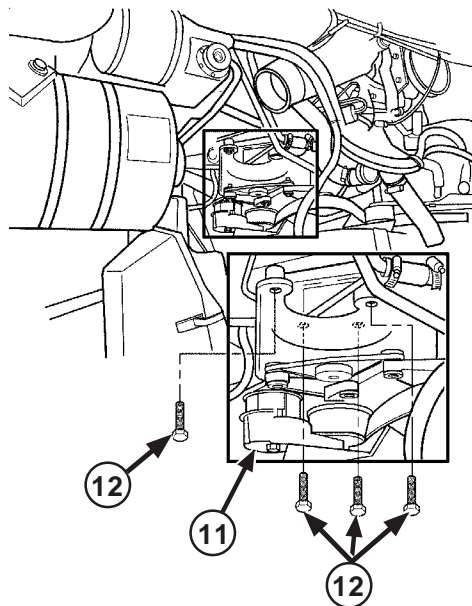


Figure 2-73. Tensioner Mount Bracket

(11) Install four bolts (12) and tensioner mount bracket (11) to engine.

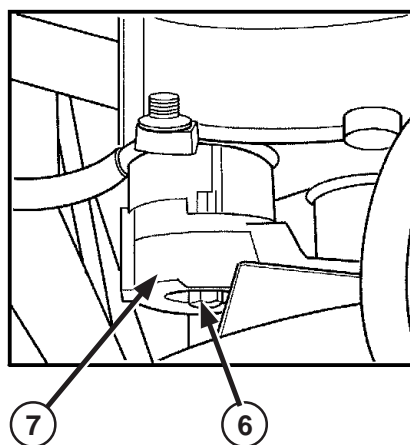


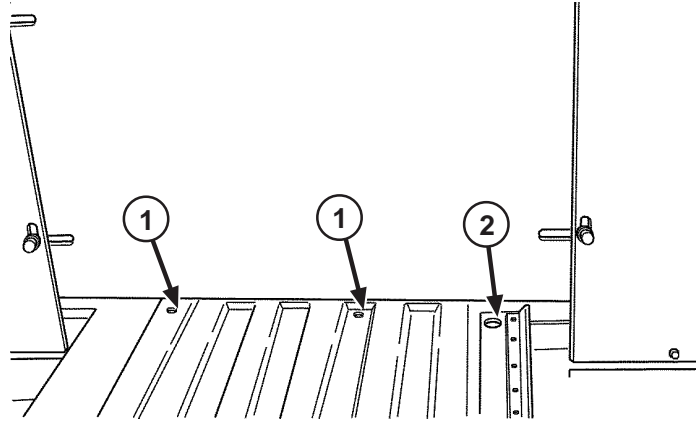
Figure 2-74. Belt Tensioner Installation

- (12) Install bolt (6) and belt tensioner to tensioner mount bracket (7) with stop pin in drilled hole.
- (13) Attach compressor/compressor mount brackets to belt tensioner mount bracket and cylinder head at engine lifting bracket top hole.
- (14) Tighten all compressor mount bolts.
- (15) Remove original belt and install new belt from kit.
- (16) Re-install air intake duct after connecting refrigerant hoses and compressor wire to compressor.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

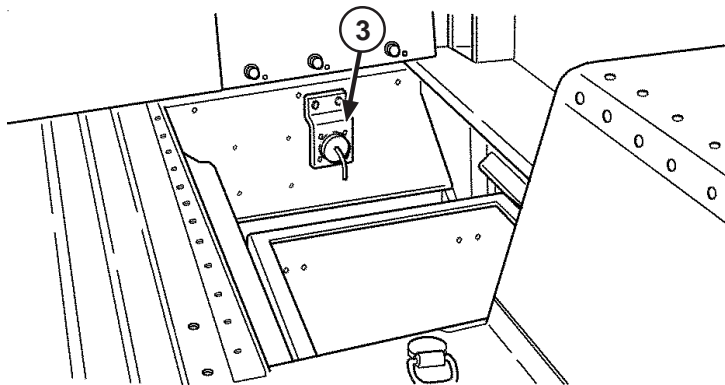
### b. Install Evaporator and Condenser

- (1) If present, remove plywood panel from between seats on top of transmission tunnel.
- (2) Remove top screws from driver's side mats and transmission tunnel.



**Figure 2-75. Transmission Tunnel Hole**

- (3) Position drill template, found in Installation Kit, on transmission tunnel and tape into position. Drill two 11/16 inch (.6875 inch) holes (1) and one 11/4 inch (1.25 inch) hole (2) as shown on side of transmission tunnel.
- (4) De-burr panel.
- (5) Remove front passenger seat to expose battery box.

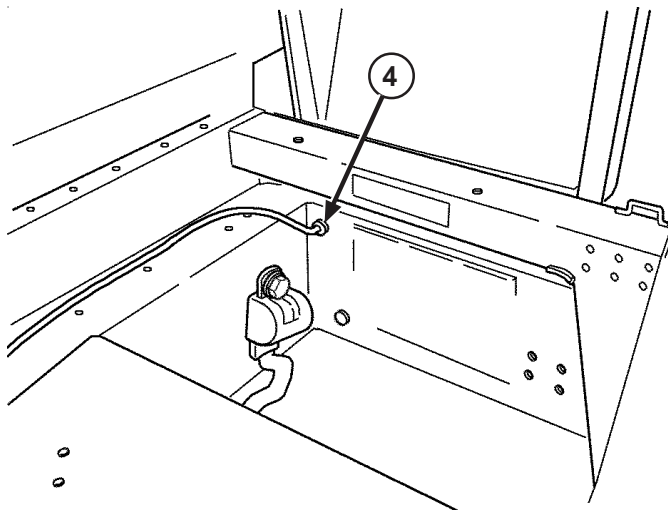


**Figure 2-76. Auxiliary Power Panel**

- (6) Remove either auxiliary power panel (3) or batteries to gain access to drill hole in battery box.

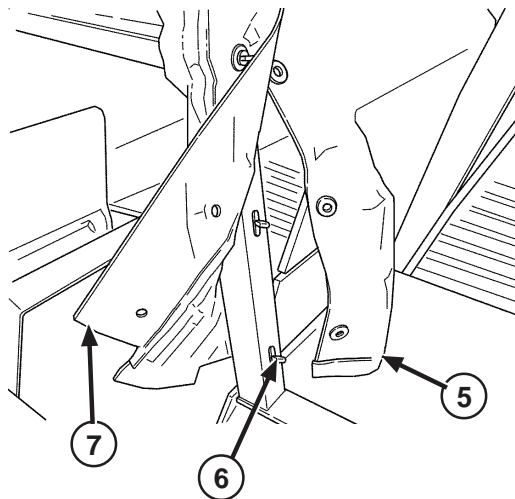
2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)



**Figure 2-77. Battery Box Panel Hole**

- (7) Drill 3/4 inch hole in rear battery box panel near top inboard edge.
- (8) Install grommet (4).

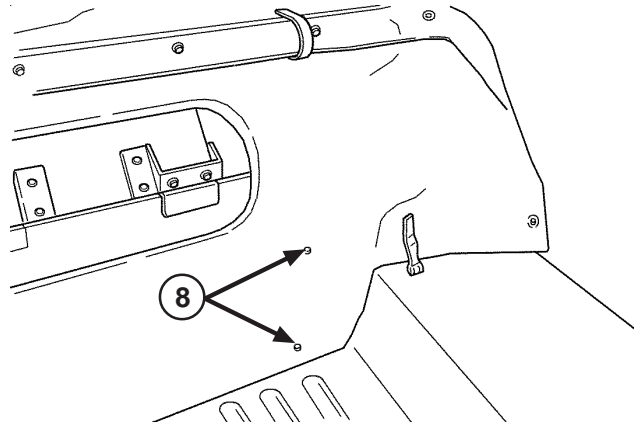


**Figure 2-78. Rear and Side Curtains**

- (9) Four-door vehicles only:
  - a. Remove rear curtain (5) from three lower quarter turn fasteners (6) on rear b-pillar.
  - b. Remove side curtain (7) from two lower quarter turn fasteners (6) on rear b-pillar.
  - c. Repeat for remaining side.

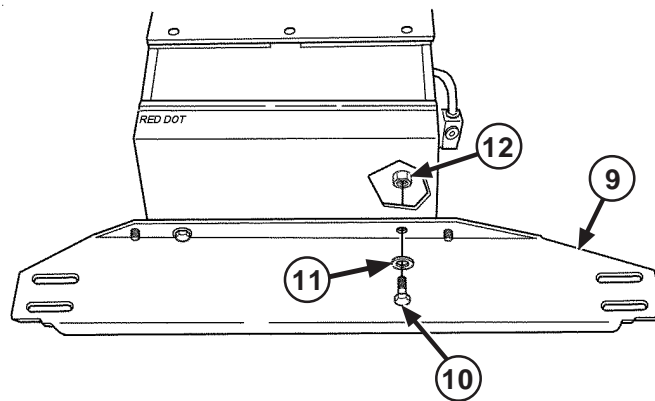
## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-79. Center Armor Hardware Cutouts**

- (10) Pull rear curtain down tight over rear of armor plate.
- (11) Mark and cut four crosses (8) over the bolts and nuts attaching the center armor plate to the rear side plates.
- (12) Cut crosses just large enough for nut to push through.



**Figure 2-80. Lower Support Bracket**

- (13) Attach lower support bracket (9) to evaporator unit "L" brackets using two bolts (10), flat washers (11), and locknuts (12).

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

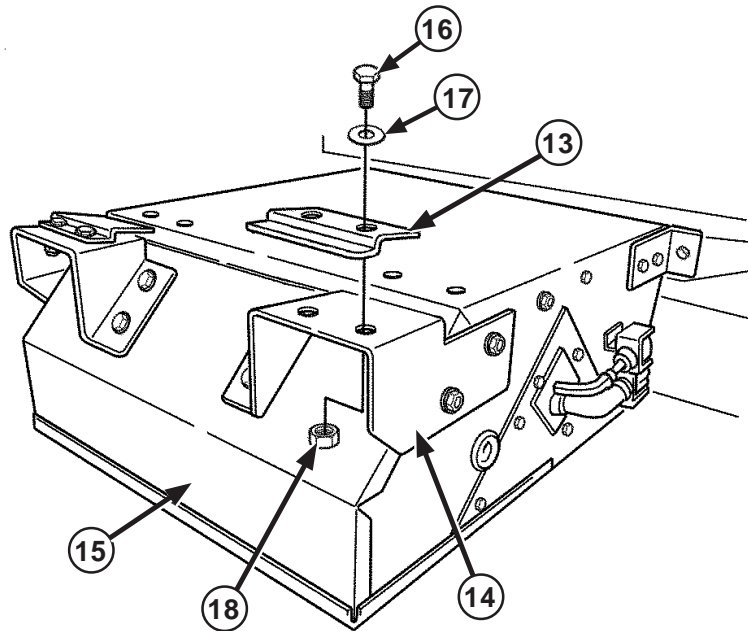


Figure 2-81. Upper Clamp Bracket

- (14) Attach upper clamp brackets.
- (15) Four-door vehicles only:
  - a. Loosely attach upper clamp brackets (13) to upper support brackets (14) on evaporator unit (15) with four bolts (16), flat washers (17), and locknuts (18).

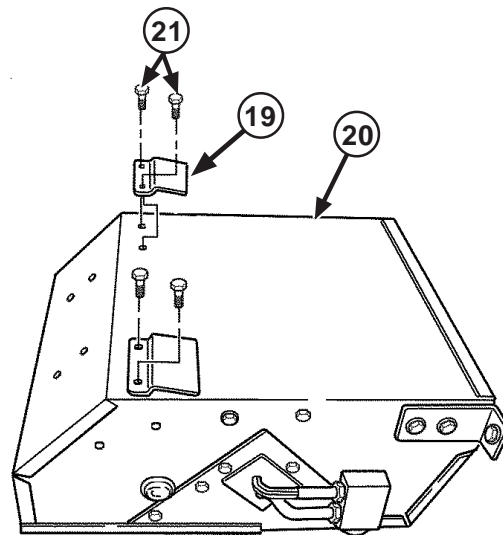
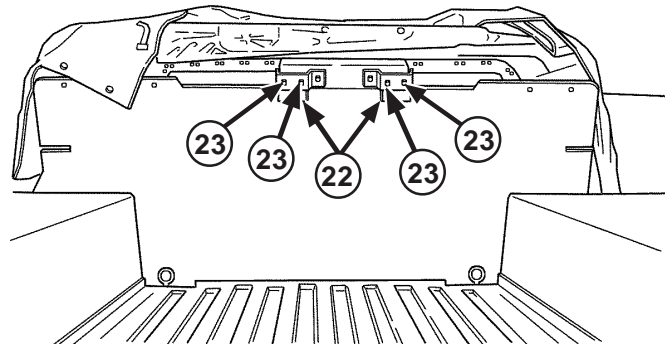


Figure 2-82. Upper Clamp Brackets (Two-Door)

- (16) Two-door vehicles only:
  - a. Remove and discard two upper support brackets from evaporator unit. Set aside bolts for future use.
  - b. Loosely attach upper clamp brackets (19) to evaporator unit (20) with four bolts (21).

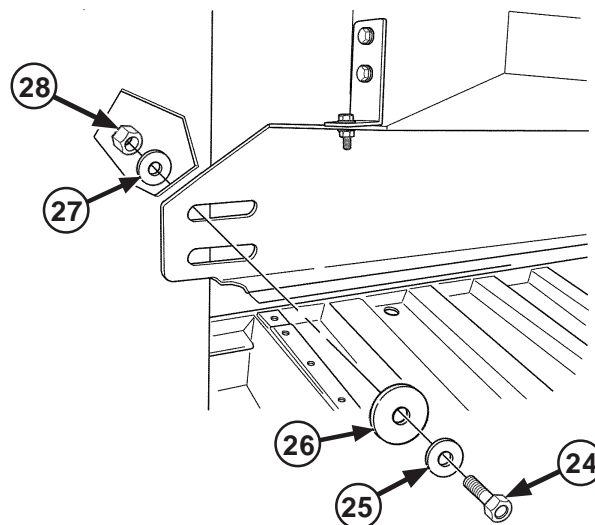
## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-83. Install Evaporator Unit**

- (17) Remove two lower center 1/2 inch bolts from rear center armor plate and rear side armor plates.
- (18) Hang evaporator unit (20) from inside top of armor plate (above holes drilled in transmission tunnel).
- (19) Adjust evaporator unit (20) to align slots in lower support bracket (22) with slots in center armor plate.
- (20) Tighten evaporator unit top clamp bracket bolts (23).



**Figure 2-84. Lower Support Bracket**

- (21) Insert four new bolts (24), flat washers (25), and oversize washers (26) through lower evaporator support bracket, armor plates, rear curtain and condenser mount angle. Install flat washers (27) and locknuts (28) and tighten snug.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

**NOTE**

For correct installation of compressor mount angles, bar in bottom of rear curtain should be below compressor mount angles and not between angles and armor plate.

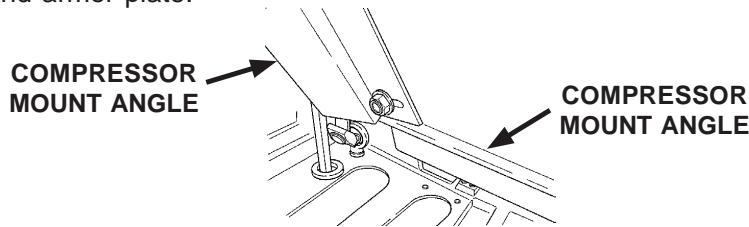


Figure 2-85. Compressor Mount Angle

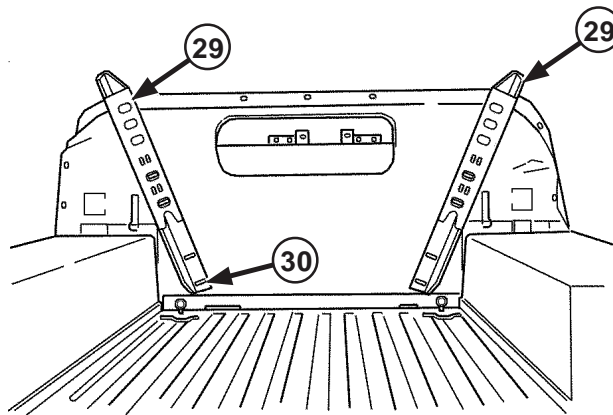


Figure 2-86. Mount Angles (Four-Door)

(22) Four-door vehicles only:

- a. Mount angles (29) with top gusseted section facing inward toward rear center of vehicle and perpendicular side facing outward.
- b. Secure with bolts in lower slot (30).

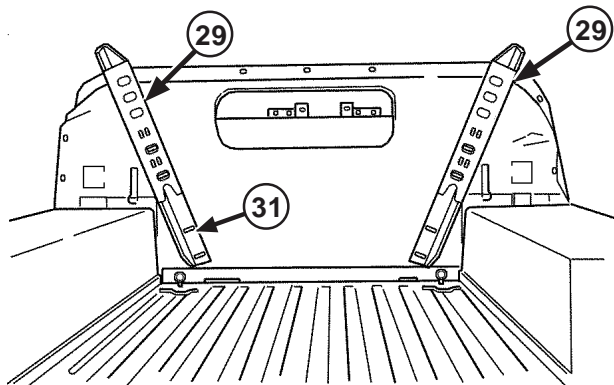


Figure 2-87. Mount Angles (Two-Door)

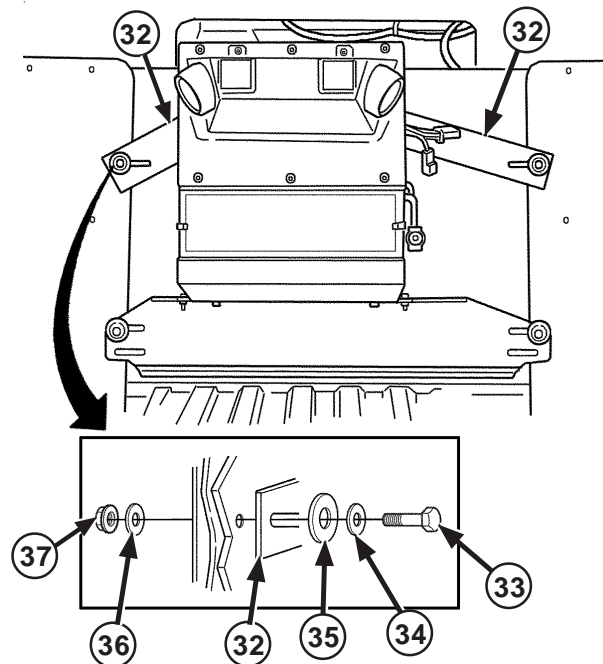
(23) Two-door vehicles only:

- a. Mount angles (29) with top gusseted section facing inward toward rear center of vehicle and perpendicular side facing outward.
- b. Secure with bolts in second slot (31) from the end of condenser mount angle.



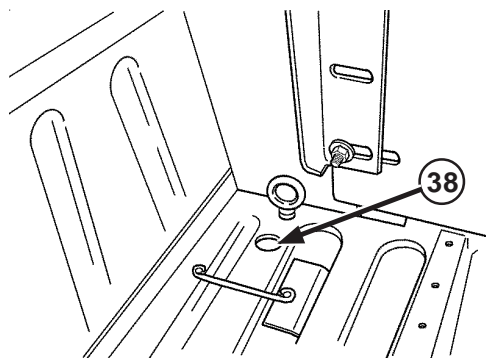
## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-88. Evaporator Side Brackets**

- (24) Remove two top center bolts from rear center armor plate and rear side armor plate.
- (25) Loosely attach evaporator side brackets (32) to evaporator unit with original hardware.
- (26) Position condenser mount angles over top slots in rear center armor plate.
- (27) Install bolts (33) flat washers (34), and oversize washers (35) through evaporator side brackets (32), armor plates, rear curtain, and condenser mount angles, and secure with flat washers (36) and locknuts (37). Tighten snug.



**Figure 2-89. Condenser Hose Hole (Four-Door)**

- (28) Four-door vehicles only:
  - a. Drill a 1.25 inch diameter hole (38) for condenser hose in bed floor between wheel well and driver side vertical condenser mount angle, forward of rear curtain hook.
  - b. De-burr hole.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

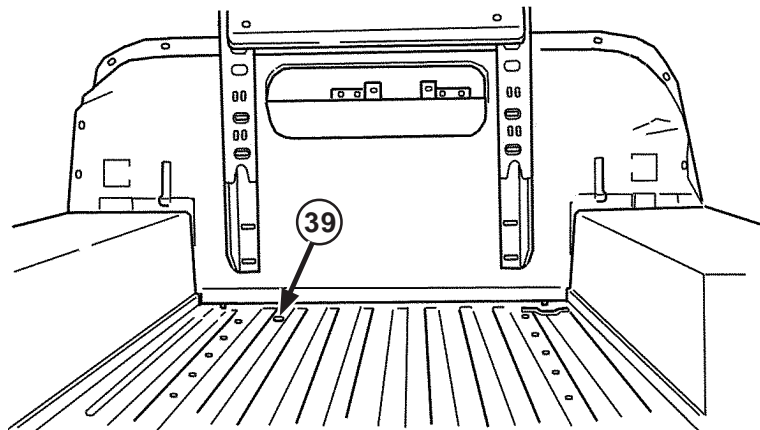


Figure 2-90. Condenser Hose Hole (Two-Door)

- (29) Two-door vehicles only:
  - a. Drill a 1.25 inch diameter hole (39) for condenser hose in transmission tunnel, near driver side vertical condenser mount angle.
  - b. De-burr hole.

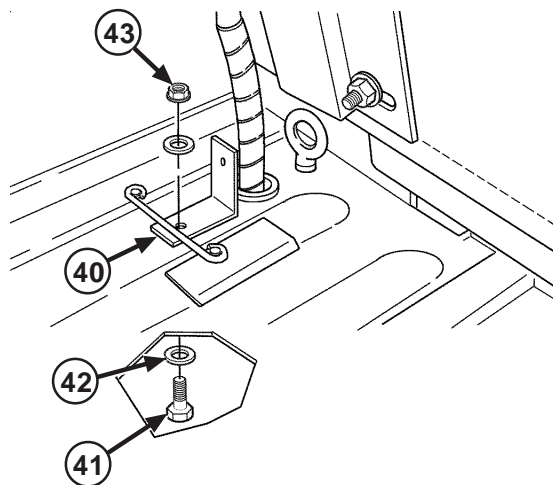


Figure 2-91. Hose Guard

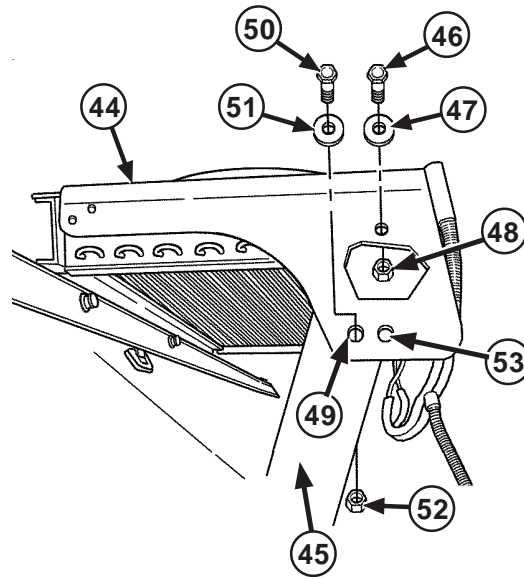
- (30) Position hose guard (40) in recessed channel of bed behind condenser hose hole.
- (31) Using hose guard (40) as a template, drill 1/4 inch diameter hole in bed.
- (32) From underneath vehicle, insert bolt (41) and washer (42) through hose guard (40) and bed.
- (33) Secure with locknut (43).

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)

#### **CAUTION**

When handling condenser assembly, avoid damaging fins on underside of condenser. Failure to comply may cause damage to equipment.



**Figure 2-92. Condenser Assembly**

- (34) Position condenser assembly (44) on condenser mount angles (45) and secure top hole with bolt (46), flat washer (47), and locknut (48).
- (35) Rotate condenser assembly (44) to horizontal position.
- (36) Four-door vehicles only:
  - a. Secure condenser assembly (44) to condenser mount angles (45) four door hole (49) with bolt (50), flat washer (51), and locknut (52).
- (37) Two-door vehicles only:
  - a. Secure condenser assembly (44) to condenser mount angles (45) two-door hole (53) with bolt (50), flat washer (51), and locknut (52).
- (38) Tighten all mounting hardware on condenser mounting and evaporator unit mounting.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

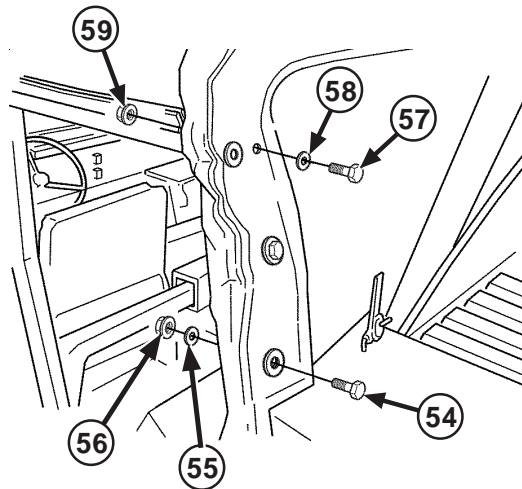


Figure 2-93. Side and Rear Curtain

(39) Four-door vehicles only:

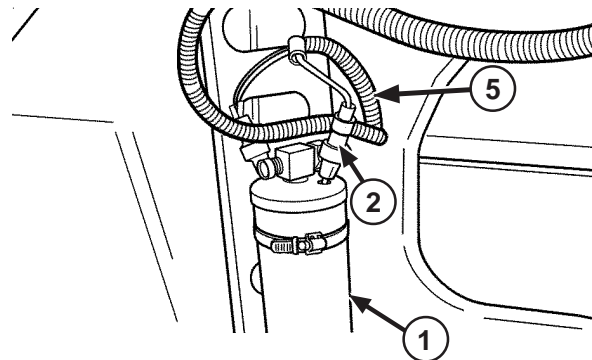
- a. Attach side curtain to rear curtain with bolts (54) through the grommets and secure with flat washers (55) and locknuts (56).
- b. Cut holes in side curtains in line with third grommet in rear curtain.
- c. Attach side curtain to rear curtain with bolts (57) through hole and third grommet and secure with flat washers (58) and locknuts (59).

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

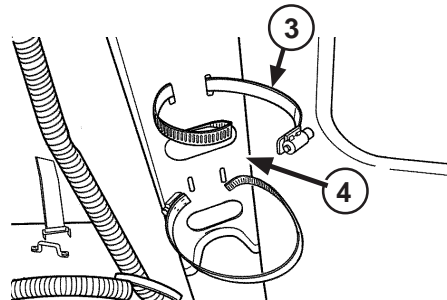
### c. Install Drier

#### **CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.



**Figure 2-94. Pressure Switches**



**Figure 2-95. Band Clamps**

- (1) Remove screw on caps from ports on top of receiver/drier (1).

#### **NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.

#### **NOTE**

For ease of installation, pre-bend end of band clamps prior to inserting in slots on driver's side condenser mount angle.

- (3) Install band clamps (3) on driver's side condenser mount angle (4).
- (4) Position receiver/drier (1) with inlet (male) fitting under condenser fittings and outlet (female) fitting pointing over top of armor plate.
- (5) Install receiver/drier in band clamps (3).
- (6) Connect condenser harness (5) to pressure switches (2) on receiver/drier (1).

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses

**CAUTION**

- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply could result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply could result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioner system. Failure to comply could cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply could result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply could result in damage to equipment.
- Before connecting fittings, check to see that O-rings are present and undamaged. Failure to comply could result in damage to equipment.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses. Failure to comply could result in damage to equipment.

**NOTE**

- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.

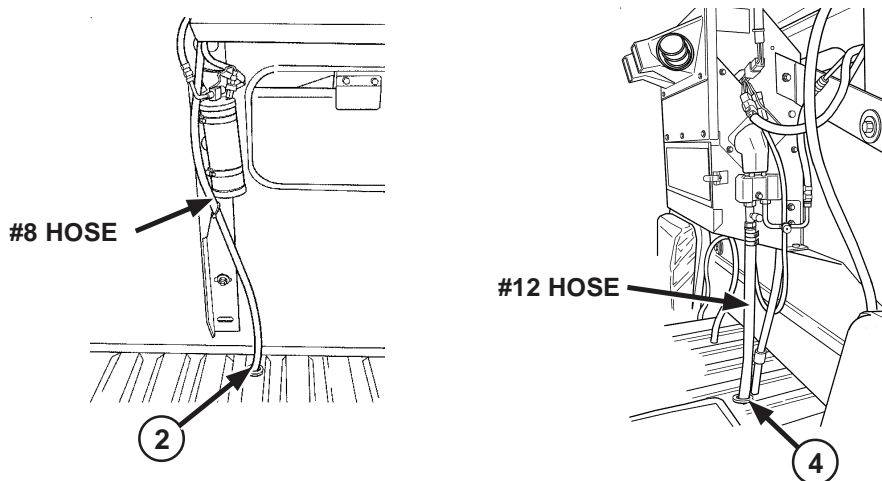
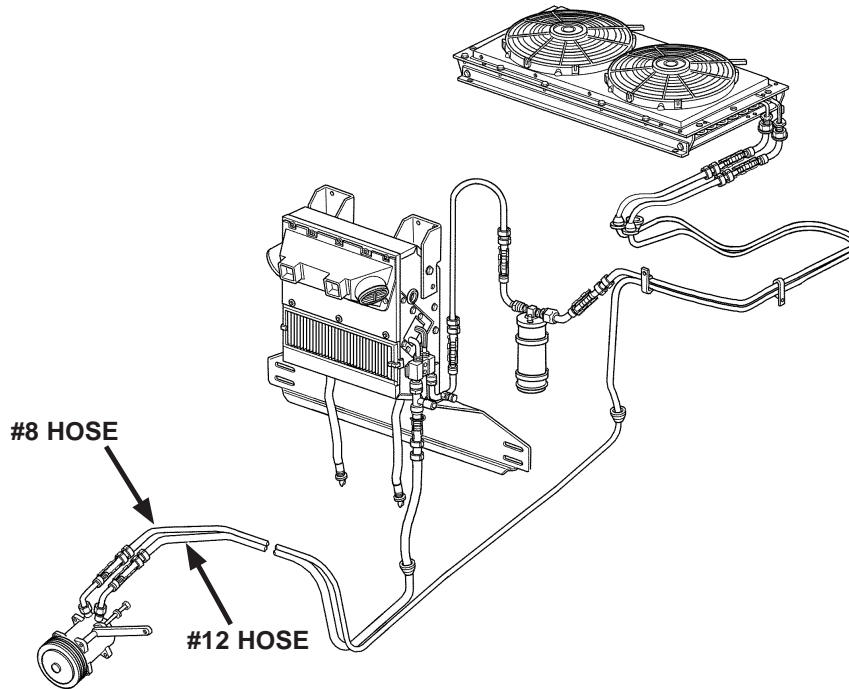


Figure 2-96. #8 Hose and #12 Hose

- (1) Trim grommets to achieve a snug fit around #8 hose.
- (2) Install grommet (2) in hole in transmission tunnel (under evaporator unit).
- (3) Trim grommet to achieve a snug fit around #12 hose.
- (4) Install grommet (1) in hole in bed/transmission tunnel.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-97. Refrigerant Hose Routing (#8 and #12)**

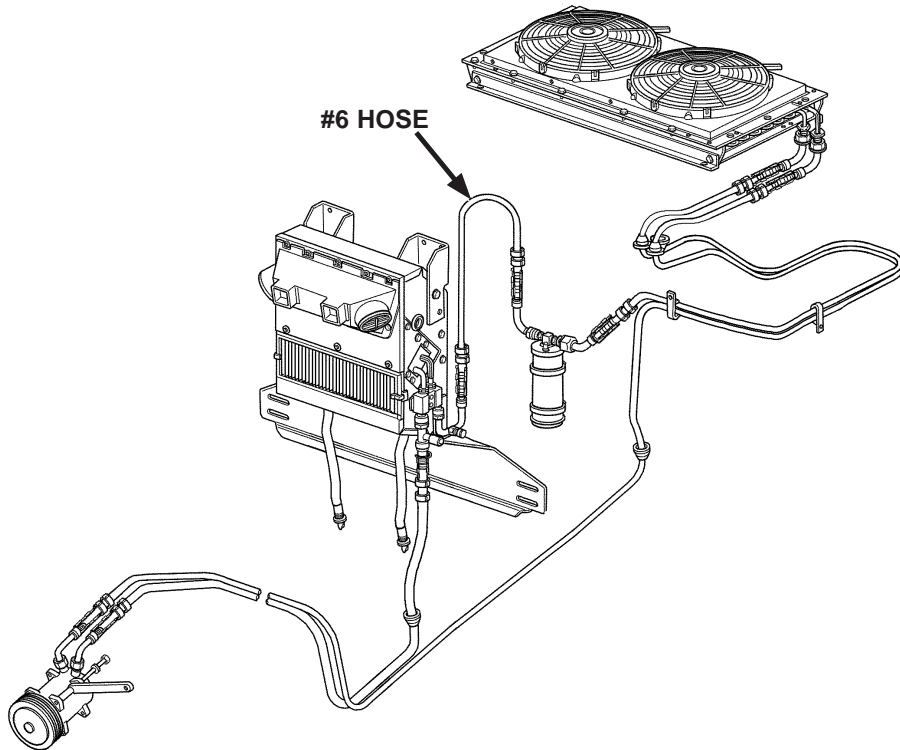
- (5) Compressor to condenser:
  - a. *Four-door vehicles only, #8 hose:* Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. *Two-door vehicles only, #8 hose:* Route hose through grommet and forward along frame rail. Continue forward and up into engine compartment near oil filter and dipstick.
- (6) Evaporator to compressor:
  - a. *Four-door vehicles only, #12 hose:* Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. *Two-door vehicles only, #12 hose:* Route hose through grommet and forward above driveshaft. Continue forward and up into engine compartment near oil filter and dipstick.
- (7) Route both #8 and #12 hoses over engine and behind air intake duct to passenger side of engine. Continue forward to compressor.

### **CAUTION**

- Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply may result in damage to equipment.
  - Hoses should span no more than two feet without being secured. Failure to comply may result in damage to equipment.
- (8) Secure #8 and #12 hoses under vehicle and along firewall.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd).



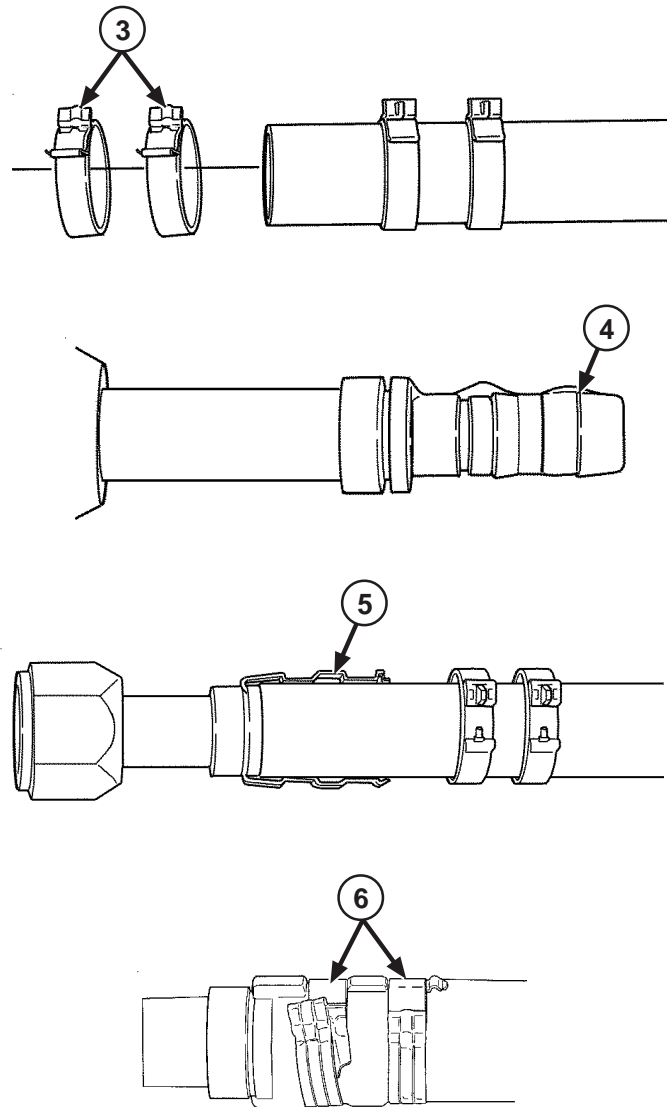
**Figure 2-98. Refrigerant Hose Routing (#6)**

- (9) Evaporator to drier, #6 hose:  
Cut a six foot section from #6 hose. Route six foot section of #6 hose through front grommet in armor floor plate, across top of transmission to driver side frame rail. Continue forward on top of frame rail. Secure to outlet (female) fitting on drier.
- (10) Drier to condenser, #6 hose:  
Route remaining length of #6 hose from inlet (male) fitting on drier up back wall of cab. Secure to #8 hose to condenser.



## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

## d. install refrigerant hoses (Cont'd).

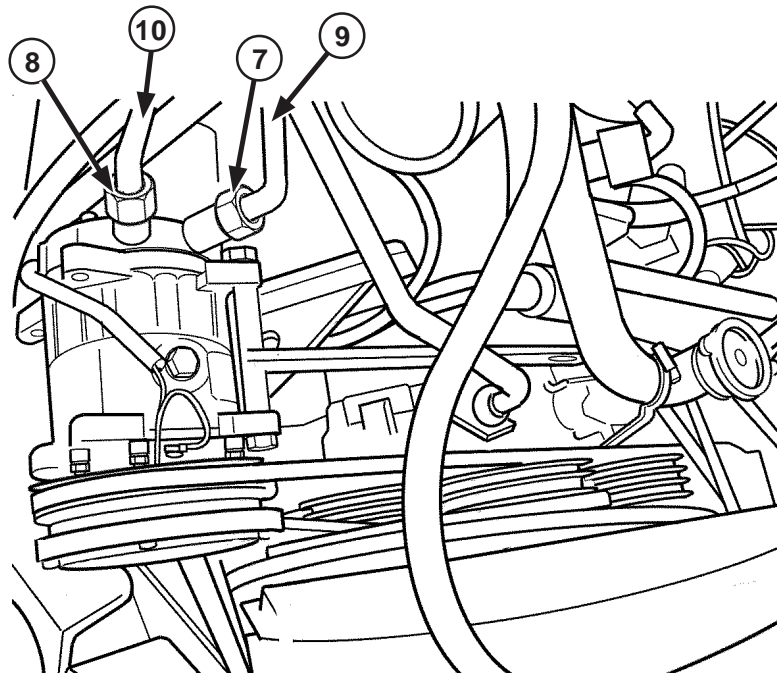


**Figure 2-99. Refrigerant Hose Preparation**

- (11) Prepare refrigerant hoses for connection.
  - a. Cut hose to proper length. Cut should be square to hose.
  - b. Slide two clips (3) onto cut end of hose. Both clips should be oriented in same direction.
  - c. Lubricate connection nipple (4).
  - d. Insert nipple fully into hose.
  - e. Snap the cage (5) over the hose and groove on nipple. The cage should rotate in groove.
  - f. Slide the clips over the cage and into the grooves on nipple.
  - g. Close the clips. The bump and lock latch (6) alignment must be square.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

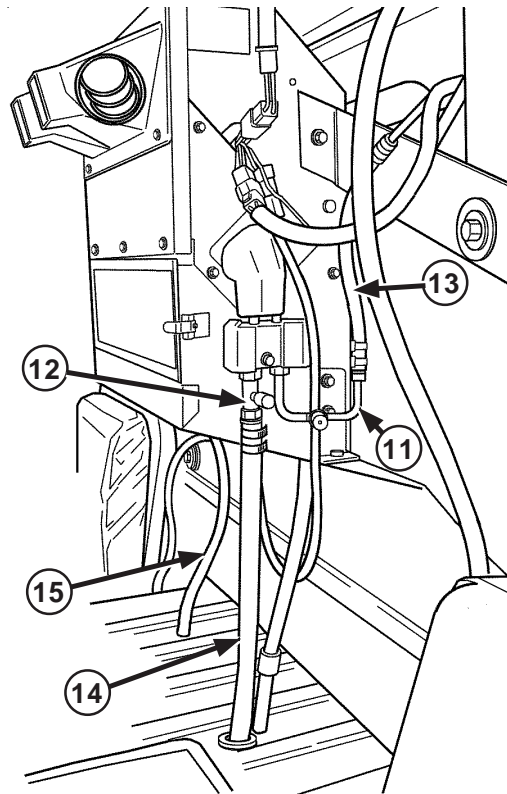


*Figure 2-100. Compressor Connection*

- (12) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (7) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (8) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (9) and #12 (10) hoses to length and connect to fittings.
  - e. Tighten fittings.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)

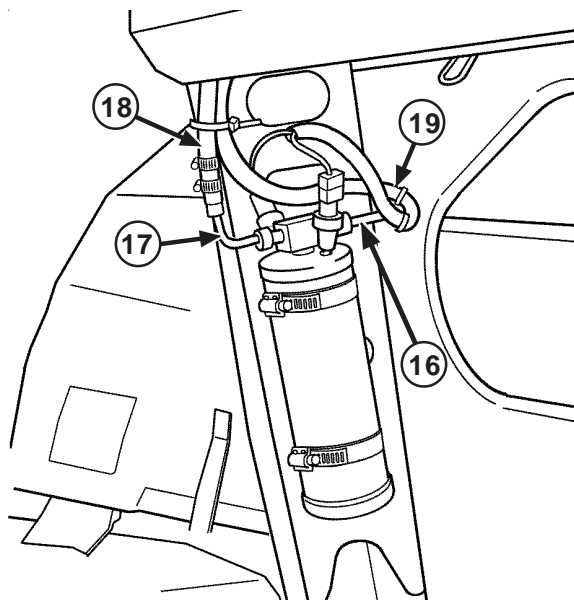


**Figure 2-101. Evaporator Connection**

- (13) Connect Evaporator.
- a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (11) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (12) on forward expansion valve connection.
  - d. Trim ends of #6 (13) and #12 (14) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (15) to reach from bottom of evaporator unit to top of transmission tunnel. Install rubber duck bill fittings onto drain hoses.
  - g. Attach drain hoses (15) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.

2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

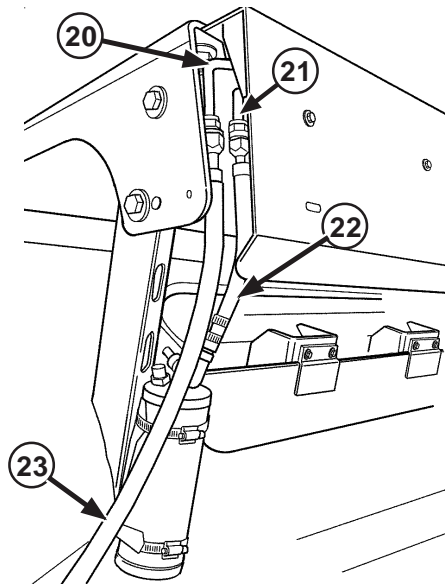


**Figure 2-102. Drier Connection**

- (14) Connect Drier.
  - a. Lubricate O-ring and install #6 male stainless tube (16) on drier outlet.
  - b. Lubricate O-ring and install #6 female 90° fitting (17) on drier inlet.
  - c. Trim ends of #6 hose (18) to condenser and connect to inlet (female) fitting.
  - d. Trim ends of #6 hose (19) to evaporator and connect to outlet (male) fitting.
  - e. Tighten fittings.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-103. Condenser Connection**

- (15) Connect Condenser.
  - a. *Four-door vehicles only:* Lubricate O-ring and install #6 female straight fitting on outlet (smaller) fitting on condenser.
  - b. *Two-door vehicles only:* Lubricate O-ring and install #6 female 45° fitting (20) on outlet (smaller) fitting on condenser.
  - c. Lubricate O-ring and install #8 female straight fitting (21) to inlet (larger) fitting on condenser.
  - d. Trim ends of #6 hose (22) from drier and connect to right fitting.
  - e. Trim ends of #8 hose (23) from compressor and connect to left fitting.
- (16) Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).

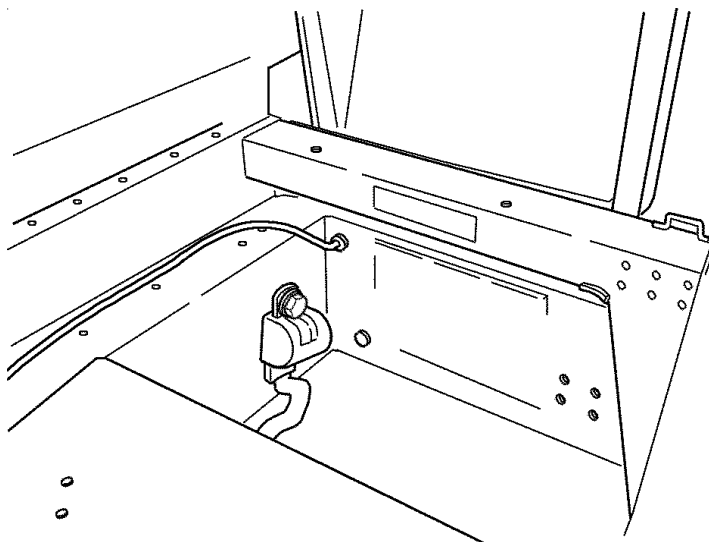


Figure 2-104. Routing

- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. *Four-door vehicles only:* Route wires forward along transmission tunnel, then through grommet and into battery box.
  - h. *Two-door vehicles only:* Route wires through grommet and into battery box.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

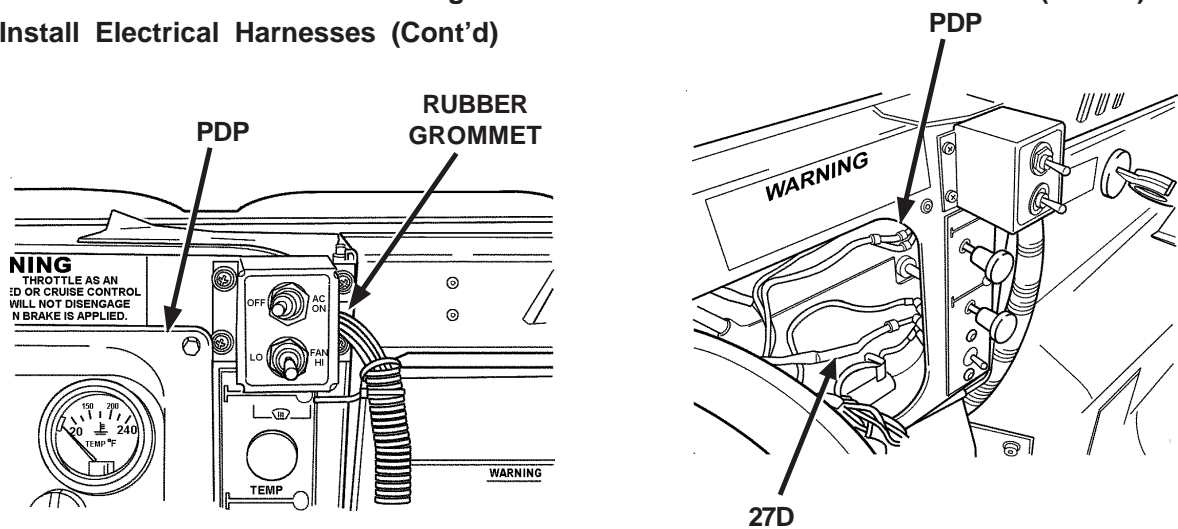


Figure 2-104.1 Electrical Harness Routing (Evaporator) Figure 2-105. Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open (PDP).
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled "27D") supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close (PDP) and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

#### NOTE

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

(5) Drier.

Connect extension harness (RD-4-5958-0) to pressure switches on drier.

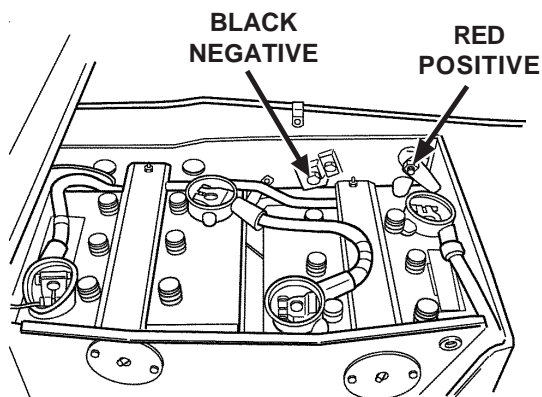


Figure 2-106. Battery Connection

(6) Battery Box.

- a. Attach **RED** wire of power and ground harness to POSITIVE terminal of battery.
- b. Attach **BLACK** wire of power and ground harness to screw on NEGATIVE ground shunt.
- c. Connect batteries.
- d. Check for 24 Volts DC.

### f. Secure and Wrap Hoses and Harnesses

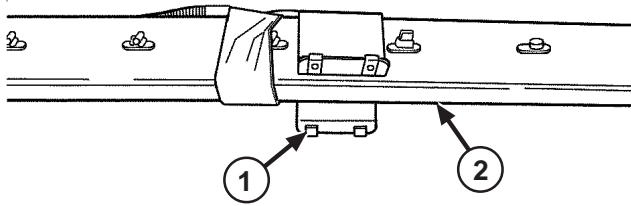
#### CAUTION

- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
  - Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
  - Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.
- (1) Install around refrigerant lines and compressor harness in engine compartment.
  - (2) Secure with nylon ties.

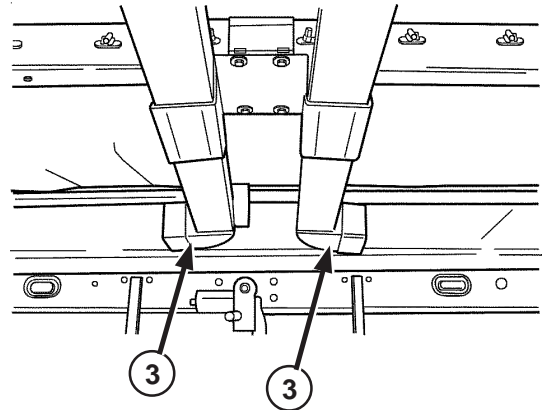


## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### g. Air Distribution Ducting

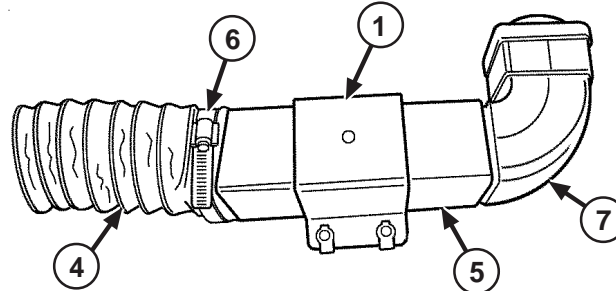


**Figure 2-107. Attaching Ducting**



**Figure 2-108. 90° Elbows**

- (1) Four-door vehicles without ring turret only:
  - a. Attach square ducting to plenum.
  - b. Using support brackets (1), clamp ducting to b-pillar (2).
  - c. Attach 90° elbows (3) to forward end of ducts to turn air toward driver and front passenger.
  - d. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.



**Figure 2-109. Flex Hose/90° Elbows**

- (2) Four-door vehicles with ring turret only:
  - a. Pre-bend band clamps and flex hose into 2.5 inch square.
  - b. Attach flex hose (4) to plenum (5) with band clamps (6). Do not overtighten.
  - c. Cut two eight inch sections of square ducting.
  - d. Attach 90° elbows (7) with louvers to one end of each eight inch section.
  - e. Apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.
  - f. Attach flex hose (4) to end of duct.
  - g. Secure duct to clamps with screws.
  - h. Attach ducts with louvers in desired locations with support brackets (1) and screws.

## 2-1.2 Installation of Air Conditioning Kit to M1097A2 with GSIE Add-on-Armor (Cont'd).

### g. Air Distribution Ducting (Cont'd)

- (3) Two-door vehicles only:
  - a. Cut off male end of 90° elbows so the elbows fit over the square outlets on the plastic plenum.
  - b. Attach 90° elbows to plenum.
  - c. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

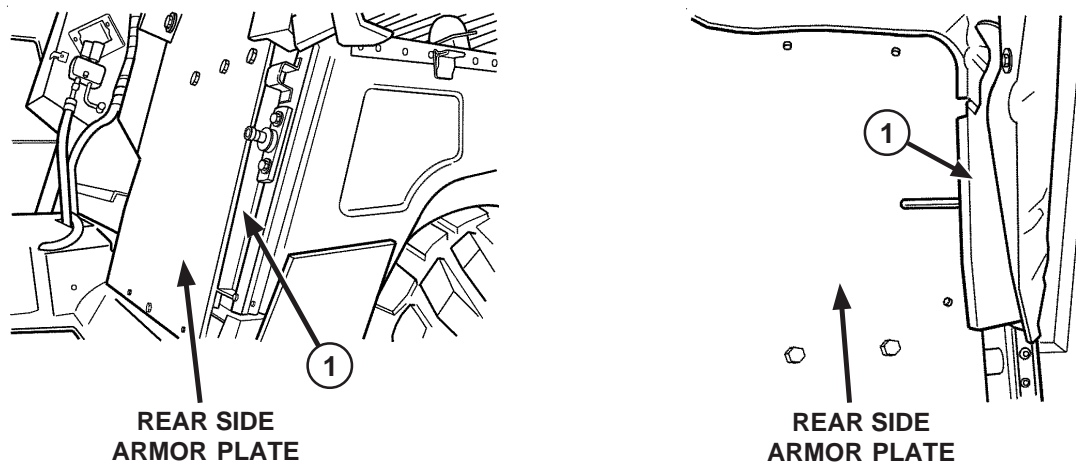


Figure 2-110. Rear Side Armor Plates

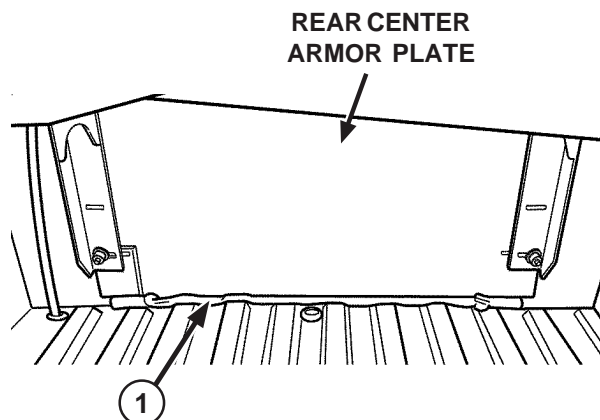


Figure 2-111. Rear Center Armor Plate

### h. Prepare System for Use

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).

**2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor.****WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

**CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

**NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnect/reconnect battery.
  3. Route and attach power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

**2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).**

**a. Install Compressor**

**CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

**NOTE**

- The Compressor Kit is designed to be installed with both four-groove and five-groove water pump pulleys.
- Prior to compressor installation, the four-groove pulley must be changed to a five-groove pulley.
- If a five-groove water pump pulley is already present, skip to "Compressor Mounting."

(1) With four-groove water pump pulley only:

- a. Rotate radiator fan blade until access holes in fan blade line up with four socket head screws attaching fan clutch to four-groove pulley.
- b. Disconnect fan clutch hose.

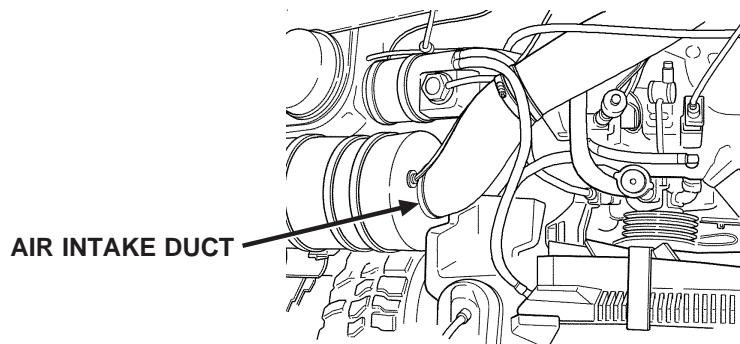
**NOTE**

If belts slip, it may be necessary to remove belts and prevent pulley from turning.

- c. Remove four bolts from fan clutch and pulley.
- d. Remove fan/fan clutch assembly.
- e. Loosen power steering and alternator belts.
- f. Remove four screws from four-groove pulley and water pump hub. Set aside screws for reinstallation.
- g. Remove four-groove pulley.
- h. Install new five-groove pulley with screws removed from four-groove pulley.
- i. Install new A/C compressor belt on front groove of water pump pulley.
- j. Reinstall fan/fan clutch assembly.
- k. Reconnect fan clutch hose.

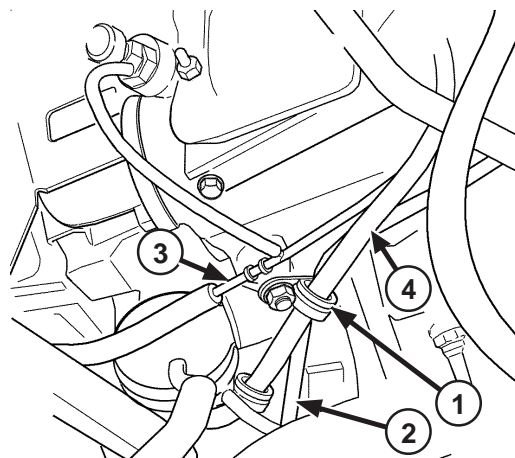
### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)



**Figure 2-112. Air Intake Duct Removal**

- (2) Compressor Mounting.
  - a. Mark air intake duct at the air filter housing. Remove air intake duct.
  - b. Loosen alternator and power steering pump belts.
  - c. Slip belts off alternator and power steering pump pulleys.
- (3) V-belts: Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install the longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-113. Fuel Line and Wiring Harness Clamps Removal**

- (4) Remove clamps (1). Attach fuel line (2), fuel return line (3), and wire harness (4) to engine. Set hardware aside for future use.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

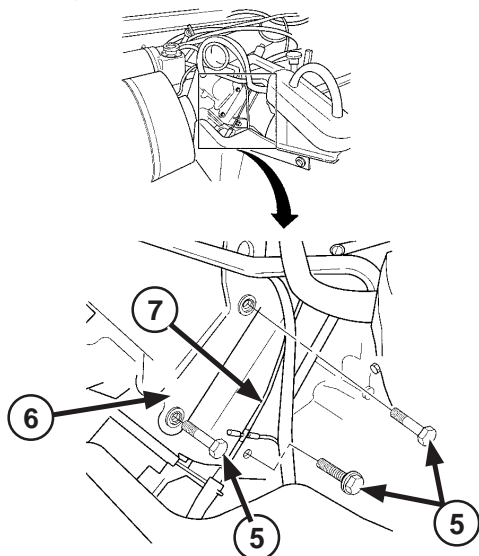


Figure 2-114. Air Intake Duct Support Bracket Removal

- (5) Remove bolts/studs (5), attach air intake duct support bracket (6) and fuel line clamps to engine.
- (6) Disconnect fuel return hose from fuel return line "T" (7).

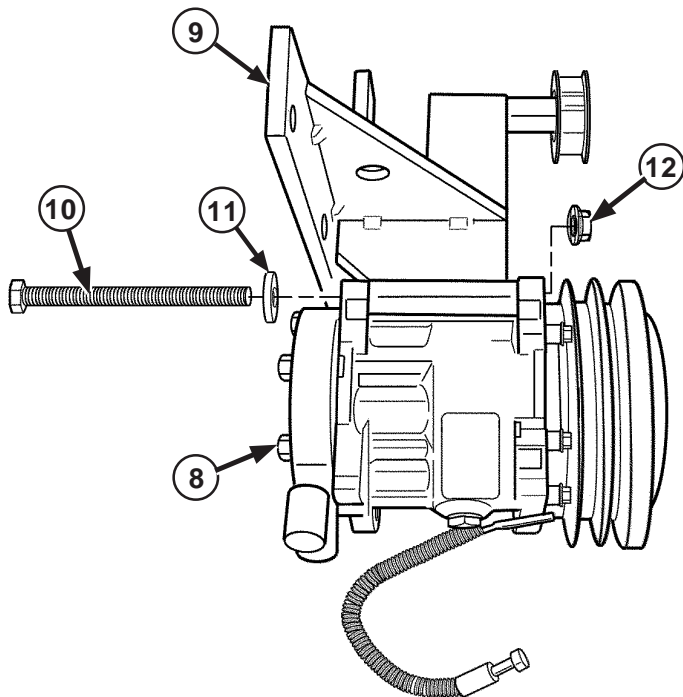


Figure 2-115. Compressor Installation

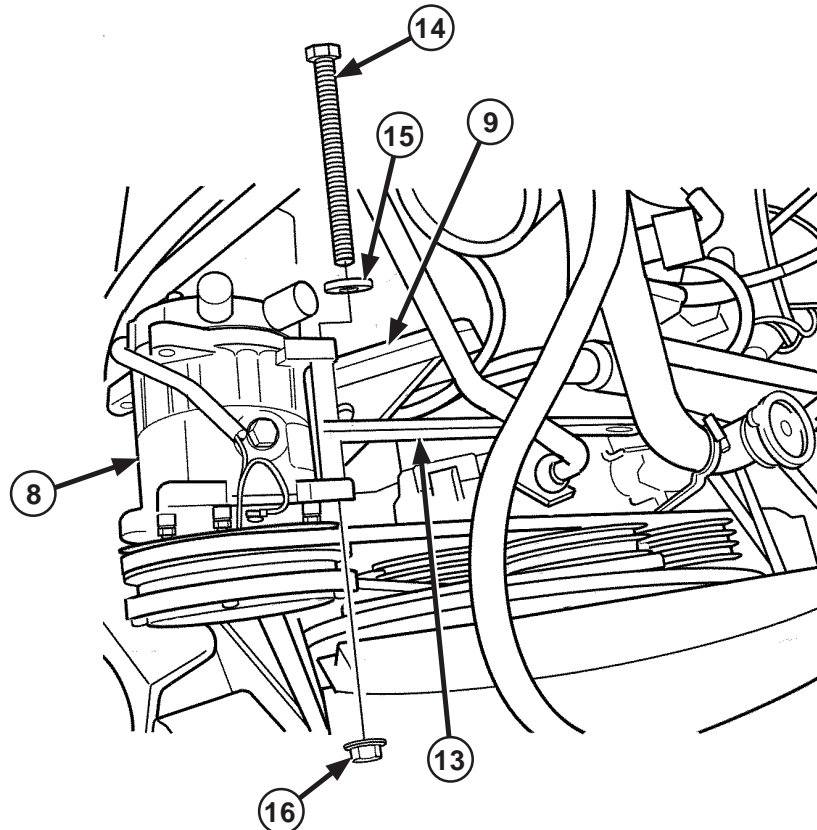
- (7) Position compressor (8) on mounting bracket (9) and secure with bolt (10), washer (11), and locknut (12). Tighten bolt (10) to 18 ft-lbs. Do not overtighten.

### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



**Figure 2-116. Compressor Adjusting Arm**

- (8) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (9) Lower mounting bracket (9) and compressor (8) onto mounting location in front left side of engine.
- (10) Position compressor adjusting arm (13) on compressor (8) and secure with bolt (14), washer (15), and locknut (16). Tighten bolt (14) to 18 ft-lbs. Do not overtighten.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

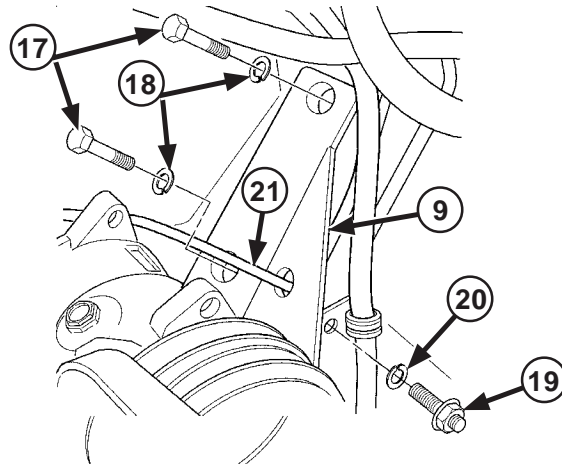


Figure 2-117. Compressor Mounting Bracket to Cylinder Head

- (11) Position lower tab of mounting bracket (9) behind fuel return line and in front of engine.
- (12) Secure mounting bracket (9) upper tabs to cylinder head with two screws (17) and lockwashers (18).
- (13) Secure mounting bracket (9) lower tabs to engine block with stud (19) and lockwasher (20). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (14) Reconnect fuel return hose (21) to fuel return line "T" through hole in mounting bracket (9).
- (15) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.
- (16) Reconnect bolts/studs attaching air intake duct support bracket and fuel line clamps to engine.

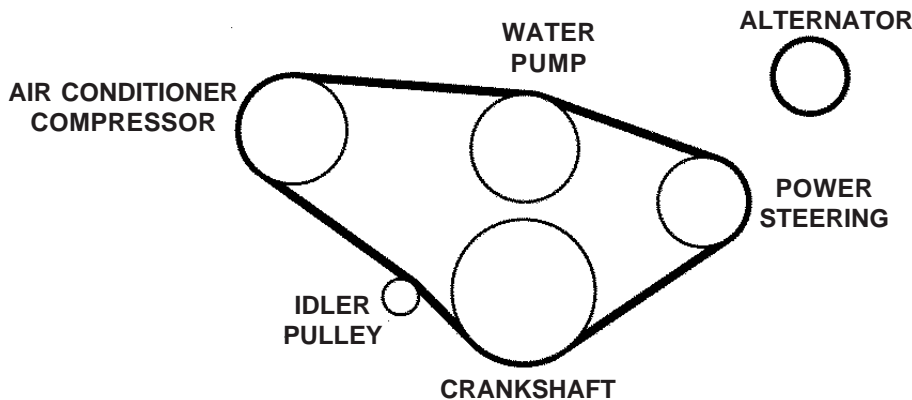


Figure 2-118. AC/Power Steering Belt

- (17) Install new AC/power steering belt on rear most groove of power steering pump pulley and behind (off the groove) of the crankshaft pulley. Slip new belt over compressor pulley (rear groove), then work belt onto rear groove of crankshaft pulley from underneath vehicle. Do not adjust tension on belt at this time.
- (18) If second belt is to be used for power steering pump, reinstall one original belt on next groove forward. Tension power steering pump belt and tighten pump bolts.

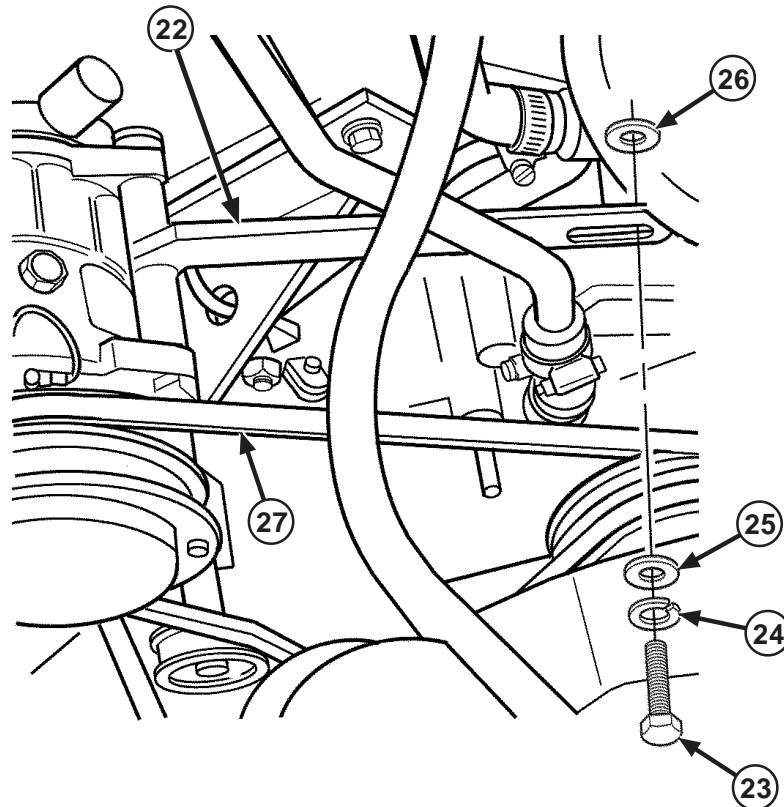


### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



**Figure 2-119. Adjusting Arm Installation**

- (19) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (20) Secure adjusting arm (22) to water pump housing with bolt (23), lockwasher (24), washer (25), and washer (26).
- (21) Adjust tension on belt (27). Rotate compressor outboard until proper belt tension is reached.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

(22) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.

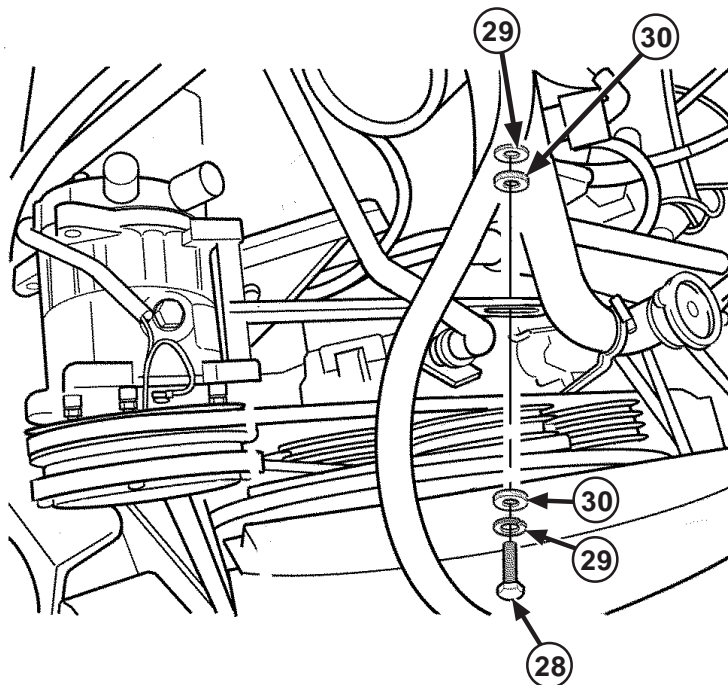


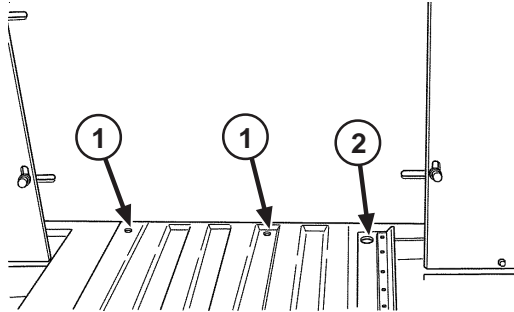
Figure 2-120. Compressor Adjustment

- (23) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolts (28) attaching lower radiator pipe to vehicle frame. Install two or four spacers (29) and lockwashers (30) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.
- (24) Reinstall alternator belts and adjust belt tension.
- (25) Reinstall air intake duct after connecting refrigerant hoses to compressor.

### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

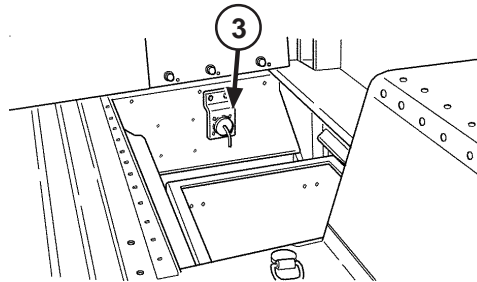
#### b. Install Evaporator and Condenser

- (1) If present, remove plywood panel from between seats on top of transmission tunnel.
- (2) Remove top screws from driver's side mats and transmission tunnel.



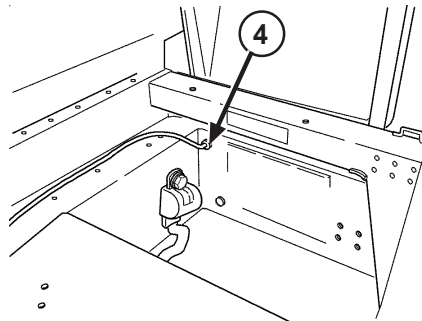
**Figure 2-121. Transmission Tunnel Holes**

- (3) Position drill template (found in Installation Kit) on transmission tunnel and tape into position. Drill two 11/16 inch (.6875 inch) holes (1) and one 11/4 inch (1.25 inch) hole (2) as shown on side of transmission tunnel.
- (4) De-burr panel.
- (5) Remove front passenger seat to expose battery box.



**Figure 2-122. Battery Box**

- (6) Remove either auxiliary power panel (3) or batteries to gain access to drill hole in battery box.



**Figure 2-123. Battery Box Panel Hole**

- (7) Drill 3/4 inch hole in rear battery box panel near top inboard edge.
- (8) Install grommet (4).

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

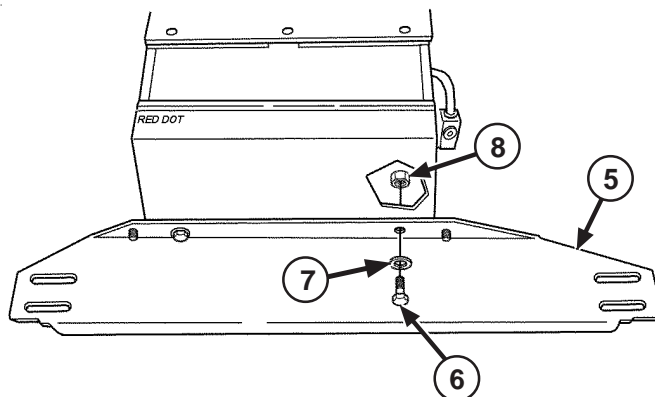


Figure 2-124. Lower Support Bracket Attachment

- (9) Attach lower support bracket (5) to evaporator unit "L" brackets using two bolts (6), flat washers (7), and locknuts (8).

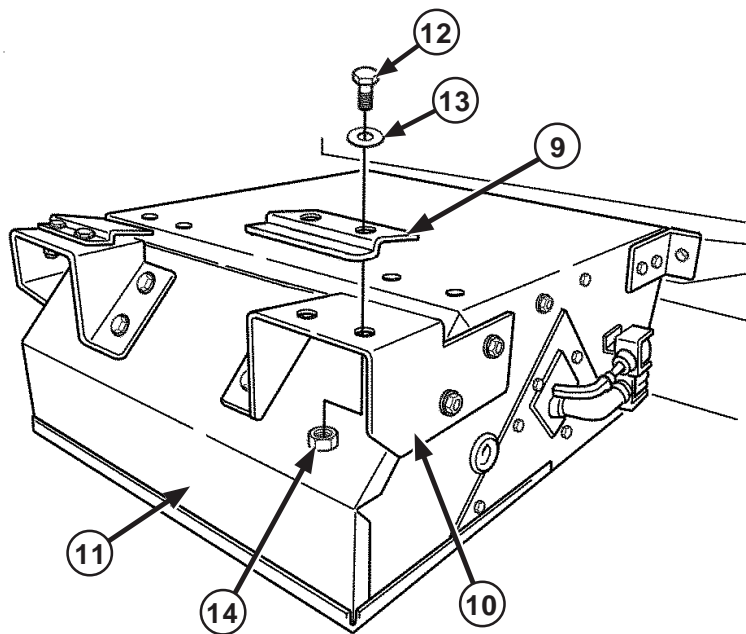
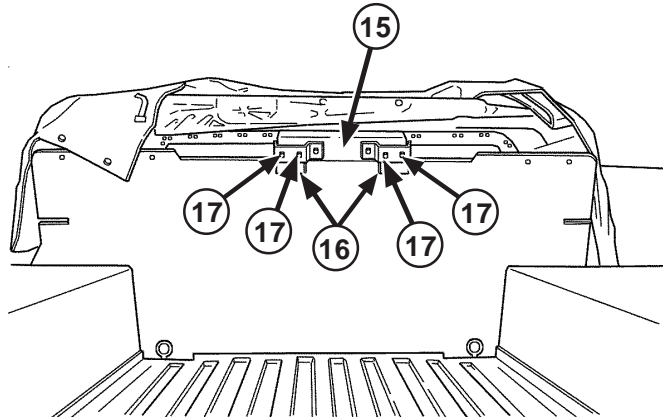


Figure 2-125. Upper Clamp Brackets Attachment

- (10) Loosely attach upper clamp brackets (9) to upper support brackets (10) on evaporator unit (11) with four bolts (12), flat washers (13), and locknuts (14).

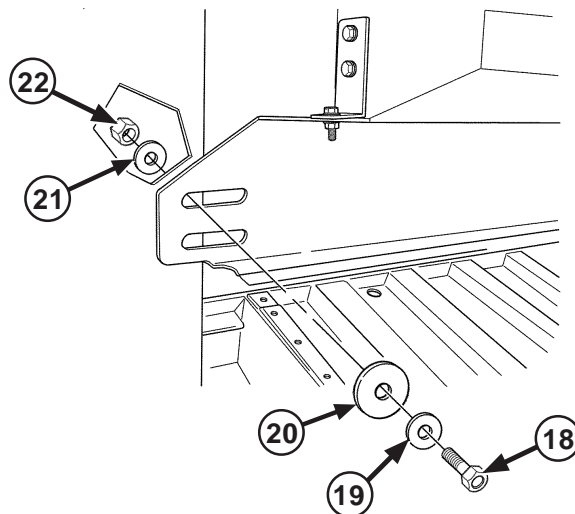
### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-126. Install Evaporator Unit**

- (11) Remove two lower center 1/2 inch bolts from rear center armor plate and rear side armor plates.
- (12) Hang evaporator unit (15) from inside top of armor plate (above holes drilled in transmission tunnel).
- (13) Adjust evaporator unit (15) to align slots in lower support bracket (16) with slots in center armor plate.
- (14) Close hatch and check for handle interface with top of evaporator unit.
- (15) Tighten evaporator unit top clamp bracket bolts (17).



**Figure 2-127. Lower Support Bracket**

- (16) Insert four new bolts (18), flat washers (19), and oversized washers (20) through lower evaporator support bracket and armor plates. Install flat washers (21) and locknuts (22) and tighten snug.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

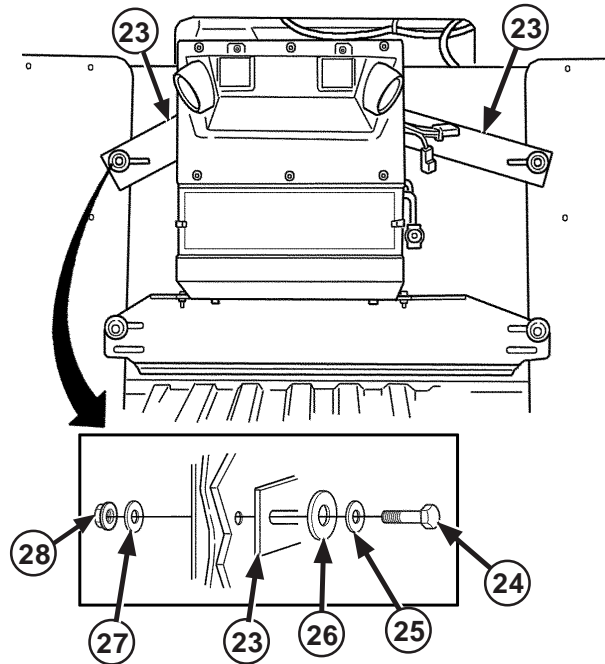


Figure 2-128. Evaporator Side Brackets

- (17) Remove two top center bolts from rear center armor plate and rear side armor plate.
- (18) Loosely attach evaporator side brackets (23) to evaporator unit with original hardware.

**NOTE**

For ease of installation, pre-bend ends of band clamps prior to installing on receiver/drier bracket.

- (19) Install bolts (24) flat washers (25), and oversized washers (26) through evaporator side brackets (23), armor plates, and receiver/drier bracket, and secure with flat washers (27) and locknuts (28). Tighten snug.

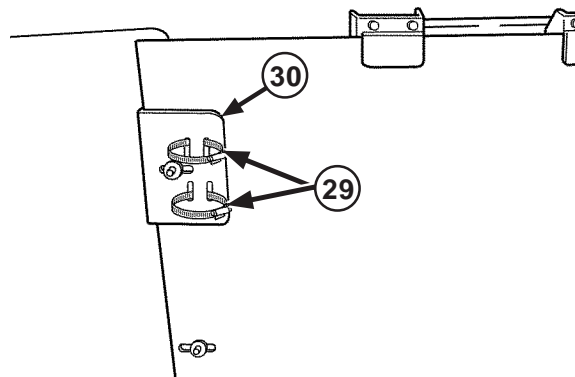
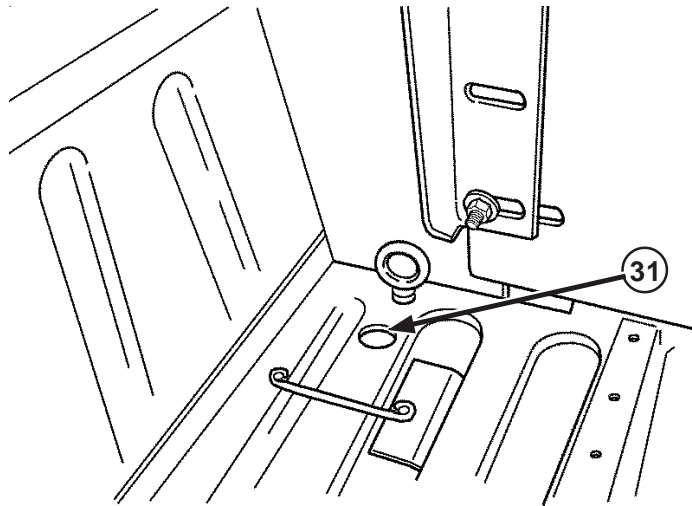


Figure 2-129. Band Clamps

- (20) Install band clamps (29) on receiver drier bracket (30).

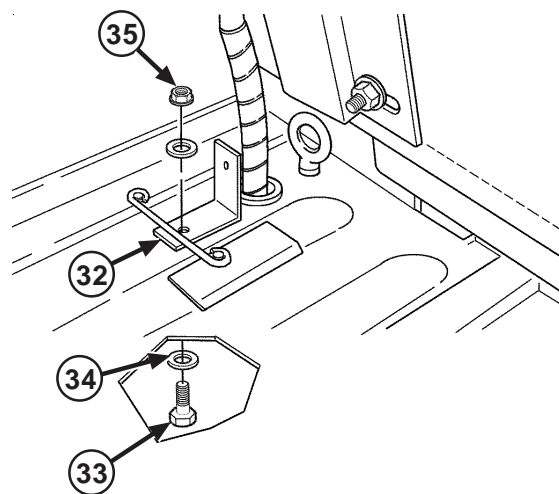
### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-130. Condenser Hose Hole**

(21) Drill a 1.25 inch diameter hole (31) for condenser hose in bed floor. De-burr hole.



**Figure 2-131. Hose Guard**

(22) Position hose guard (32) in recessed channel of bed behind condenser hose hole.

(23) Using hose guard (32) as a template, drill 1/4 inch diameter hole in bed.

(24) From underneath vehicle, insert bolt (33) and washer (34) through hose guard (32) and bed.

(25) Secure with locknut (35).

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd).

**CAUTION**

When handling condenser assembly, avoid damaging fins on underside of condenser. Failure to comply could result in damage to equipment.

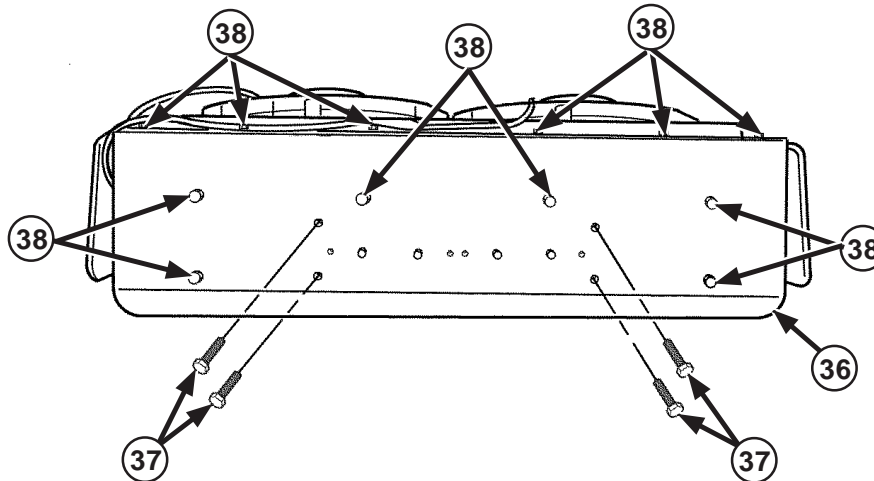


Figure 2-132. Air Deflector Plate

- (26) Cut two ties on lower edge of air deflector plate (36).
- (27) Remove four screws (37) from electrical EMI filter panel and air deflector plate (36). Set hardware aside for future use.
- (28) Remove twelve screws (38) and wire harness clamps (if applicable) from air deflector plate (36) and condenser assembly. Discard air deflector plate (36).

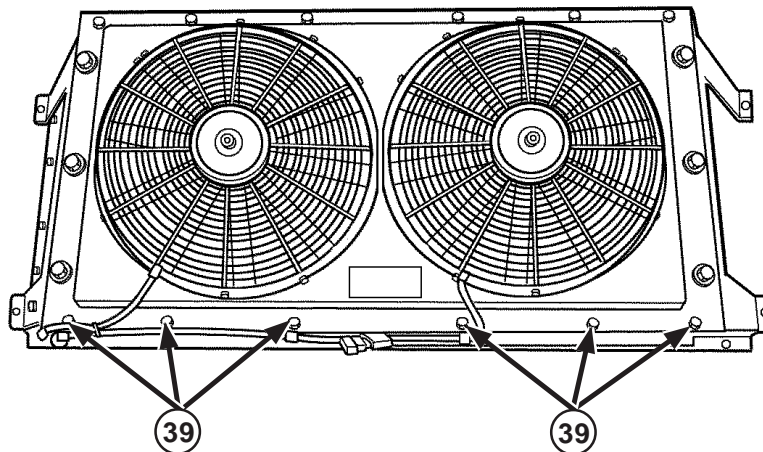


Figure 2-133. Condenser Assembly

- (29) Install six screws (39) to top edge of condenser assembly.



### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser (Cont'd)

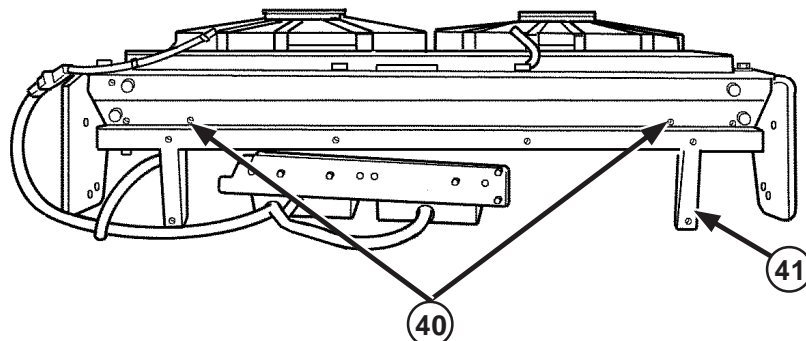


Figure 2-134. Support Brackets Removal

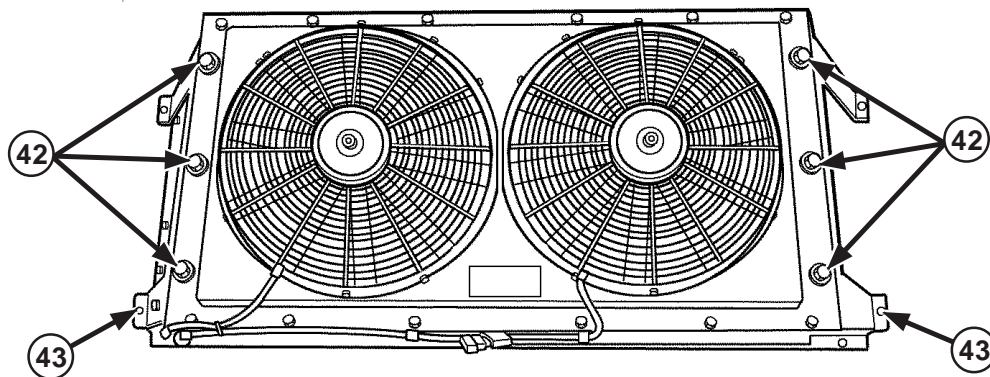


Figure 2-135. Side Condenser Mount Plates Removal

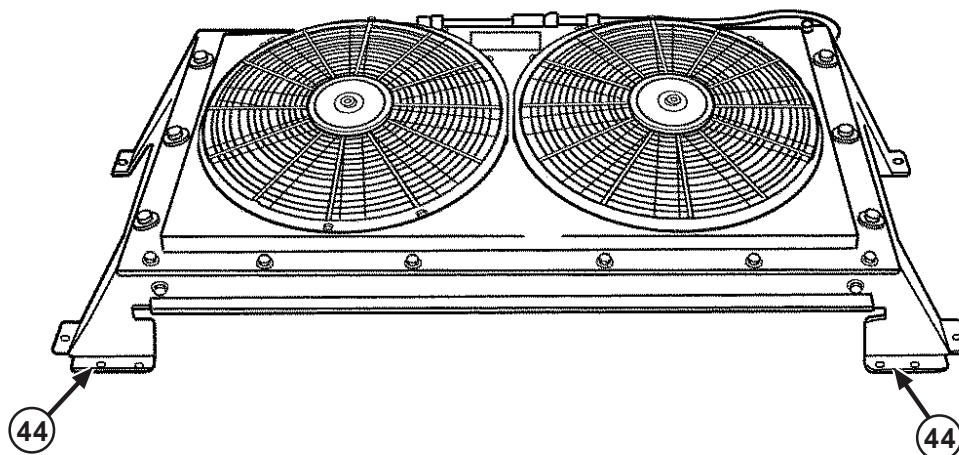


Figure 2-136. Condenser Mount Brackets

- (30) Remove two screws (40) and support brackets (41). Discard support brackets (41).
- (31) Remove six screws (42) and side condenser mount plates (43). Discard side condenser mount plates (43).
- (32) Install two condenser mount brackets (44) and secure with existing hardware.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

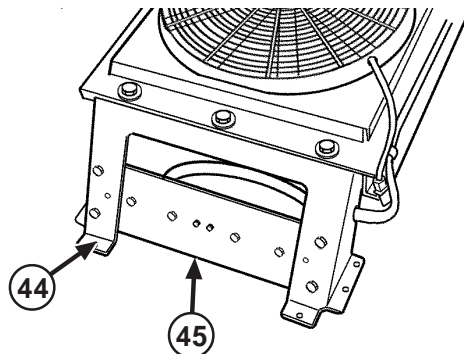


Figure 2-137. EMI Filter Panel

- (33) Install electrical EMI filter panel (45) to plumbing end of condenser mount bracket (44). Panel (45) should be oriented so that the wiring is on the bottom. Secure with original hardware.
- (34) Fold and secure pressure switch wires onto condenser harness.
- (35) Open hatch.

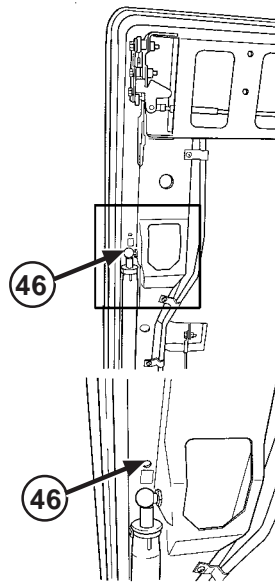


Figure 2-138. Stiffener Hole

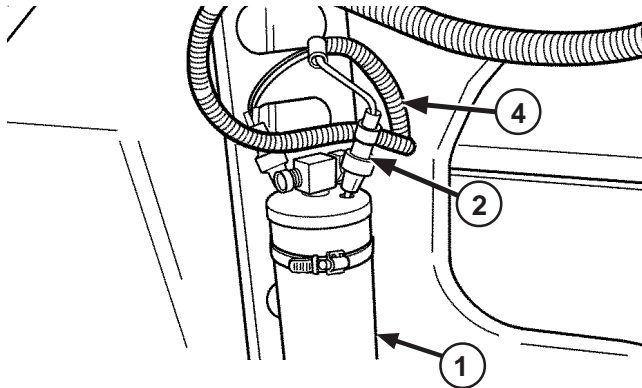
- (36) Drill a 3/8 inch (.375) hole (46) in outboard flange of stiffener, approximately one inch forward of gas shock pivot point on each side of hatch.
- (37) Place template on outside of hatch.
- (38) Align with forward edge and hole (46).
- (39) Drill six 3/8 inch (.375) mounting bolt holes.
- (40) Drill three 1 1/4 inch (1.250) hose/wire holes.
- (41) Position condenser assembly on rear hatch with wire harness and fitting on driver's side of hatch. Secure with bolts, washers, and locknuts.

### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

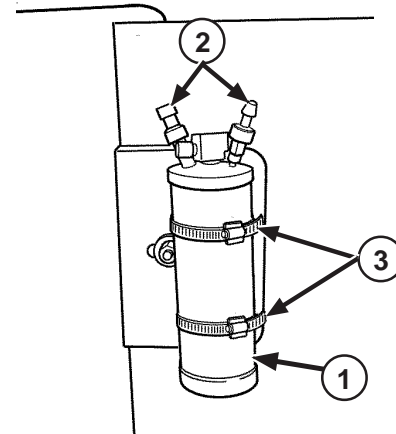
#### c. Install Drier

#### **CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.



**Figure 2-139. Receiver/Drier**



**Figure 2-140. Pressure Switches**

- (1) Remove screw on caps from ports on top of receiver/drier (1).

#### **NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.
- (3) Position receiver/drier (1) with inlet (male) fitting under condenser fittings and outlet (female) fitting pointing over top of armor plate.
- (4) Install receiver/drier in band clamps (3).
- (5) Connect condenser harness (4) to pressure switches (2) on receiver/drier (1).

**2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).**

**d. Install Refrigerant Hoses**

**CAUTION**

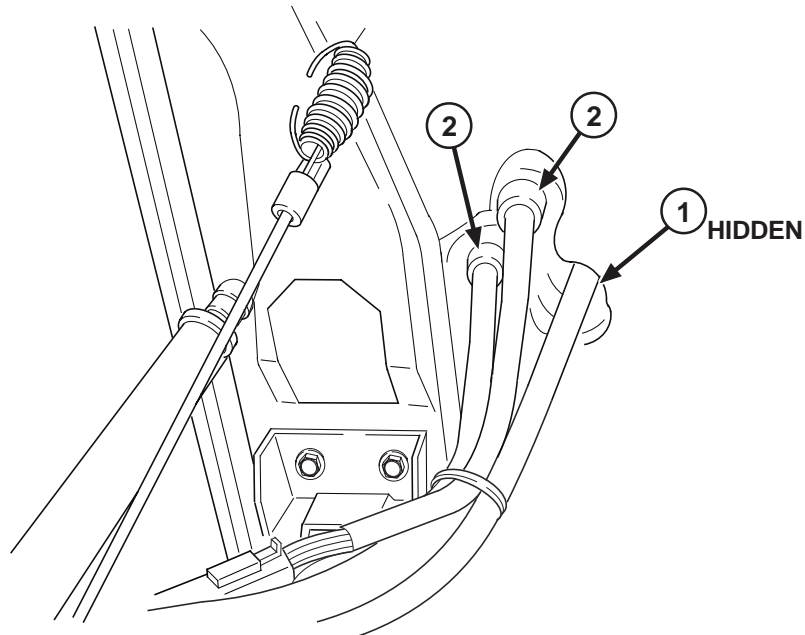
- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply could result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply could result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioning system. Failure to comply could cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply could result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply could result in damage to equipment.
- Before connecting fittings, check to see that O-rings are present and undamaged. Failure to comply could result in damage to equipment.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses. Failure to comply could result in damage to equipment.

**NOTE**

- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.

### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)

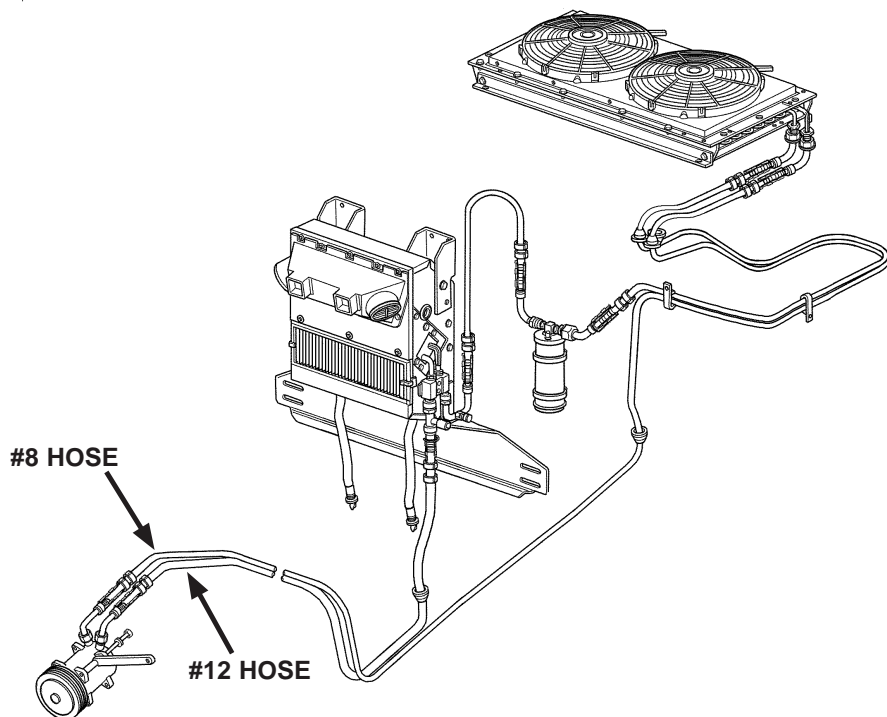


**Figure 2-141. Hose Routing**

- (1) Trim grommets (2) to achieve a snug fit around hoses and wire harnesses.
- (2) Install one grommet (1) in rear most hole from top of hatch.
- (3) Install two grommets (2) in remaining holes in hatch from underside of hatch.
- (4) From top of hatch, push six-pin male connector from condenser wire harness through grommet in rear most hole from top of hatch.
- (5) Pull approximately eight inches of wire harness through grommet.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)



**Figure 2-142. Refrigerant Hose Routing**

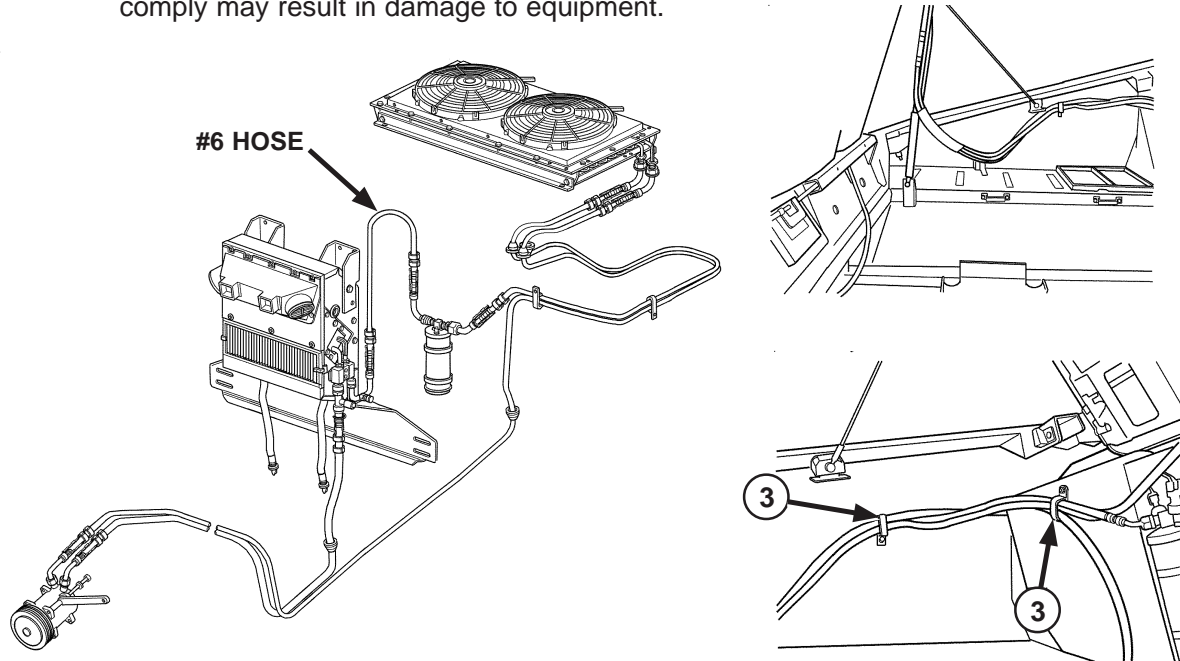
- (6) Compressor to condenser, #8 hose:
  - a. Route hose up through outboard grommet in hatch to condenser inlet fitting.
- (7) Evaporator to compressor, #12 hose:
  - a. Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. Route both #8 and #12 hoses over engine and behind air intake duct to passenger side of engine. Continue forward to compressor.

## 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)

#### **CAUTION**

- Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply may result in damage to equipment.
- Hoses should span no more than two feet without being secured. Failure to comply may result in damage to equipment.

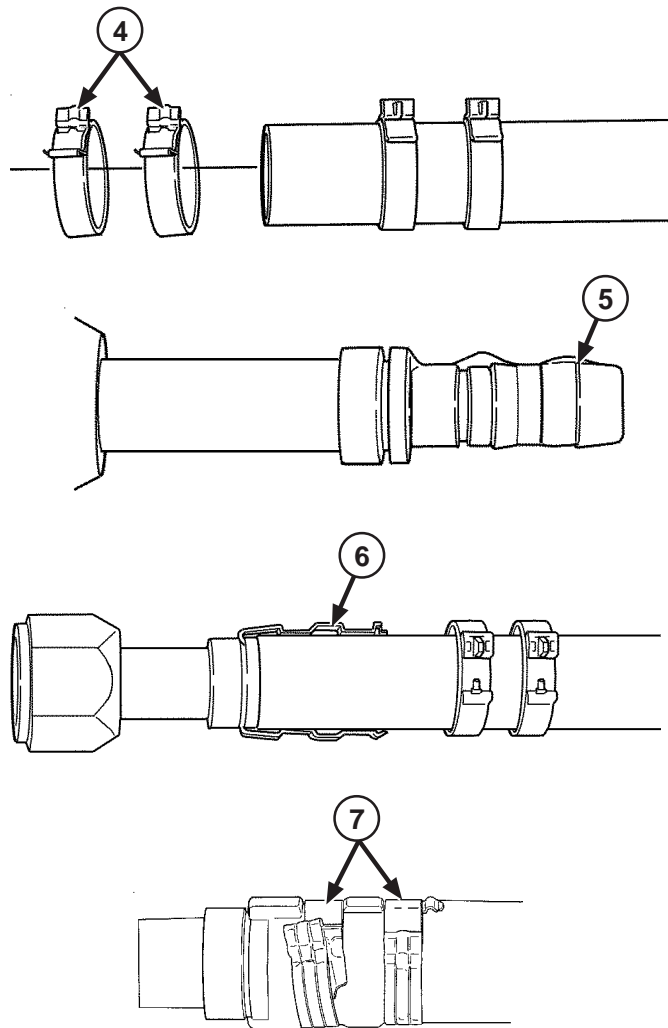


**Figure 2-143. Refrigerant Hose Routing**

- (8) Evaporator to drier, #6 hose:
  - a. Cut a 28-inch section from #6 hose. Route 28-inch section of #6 hose over armor plate.
  - b. Secure to outlet (female) fitting on drier.
- (9) Drier to condenser, #6 hose:
  - a. Route remaining length of #6 hose up through inboard grommet in hatch to condenser outlet fitting. Hose should match length of wire harness to drier.
  - b. Secure #6 hose, #8 hose, and jumper wire harness together with four nylon ties from grommets in hatch to drier pressure switch connectors.
  - c. Secure hoses and wire harness to gas shock. Hatch should be able to open and close in both directions without straining hoses.
  - d. Drill hole in side of cargo cover and secure hoses and wire harness to cargo cover with clamp (3), screw, washer, and locknut.
  - e. Secure hoses and wire harness to back armor plate with clamp (3), screw, washer, and locknut.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)



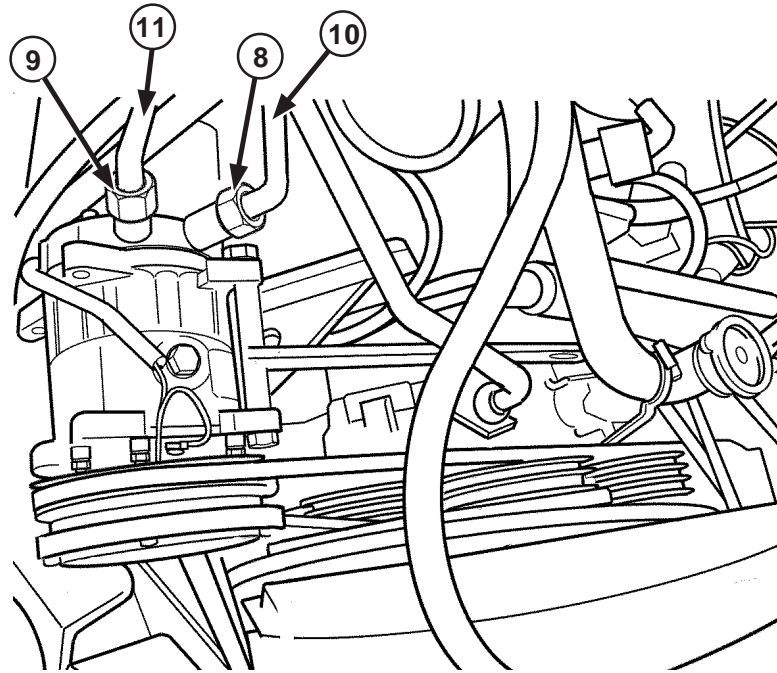
**Figure 2-144. Refrigerant Hose Preparation**

- (10) Prepare refrigerant hoses for connection:
  - a. Cut hose to proper length. Cut should be square to hose.
  - b. Slide two clips (4) onto cut end of hose. Both clips should be oriented in same direction.
  - c. Lubricate connection nipple (5).
  - d. Insert nipple fully into hose.
  - e. Snap the cage (6) over the hose and groove on nipple. The cage should rotate in groove.
  - f. Slide the clips over the cage and into the grooves on nipple.
  - g. Close the clips. The bump and lock latch (7) alignment must be square.



### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-145. Compressor Connection**

- (11) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (8) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (9) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (10) and #12 (11) hoses to length and connect to fittings.
  - e. Tighten fittings.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

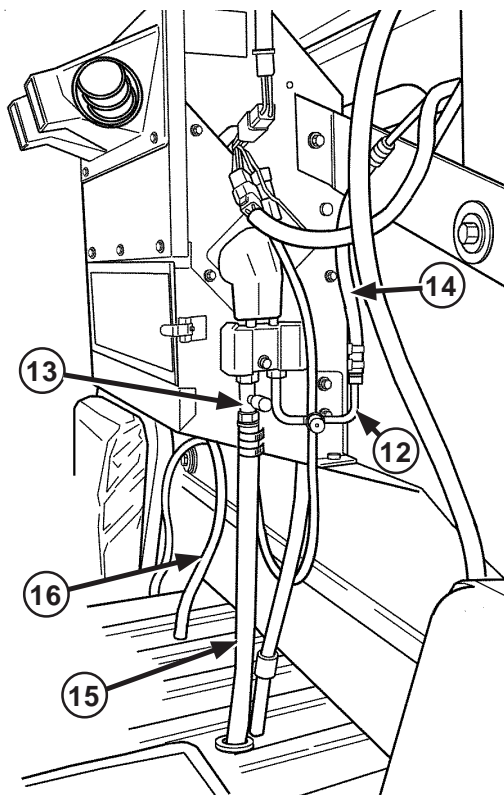
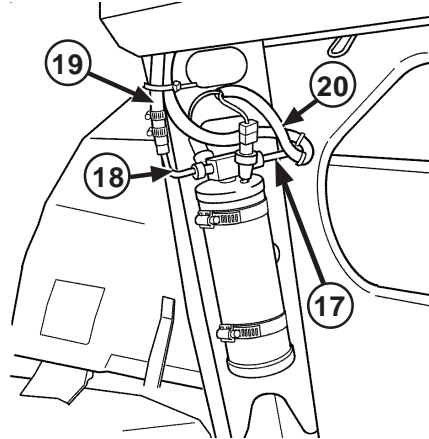


Figure 2-146. Evaporator Connection

- (12) Connect Evaporator.
  - a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (12) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (13) on forward expansion valve connection.
  - d. Trim ends of #6 (14) and #12 (15) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (16) to reach from bottom of evaporator unit to top of transmission tunnel. Install duck bill fittings onto drain hoses.
  - g. Attach drain hoses (16) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.

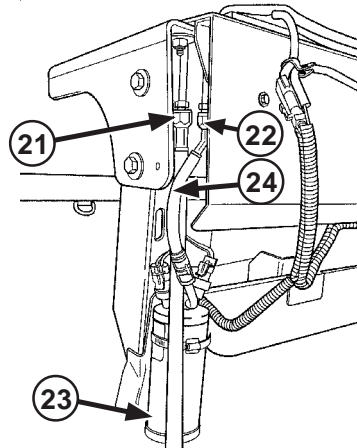
### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-147. Drier Connection**

- (13) Connect Drier.
- Lubricate O-ring and install #6 male stainless tube (17) on drier outlet.
  - Lubricate O-ring and install #6 female 90° fitting (18) on drier inlet.
  - Trim ends of #6 hose (19) to condenser and connect to inlet (female) fitting.
  - Trim ends of #6 hose (20) to evaporator and connect to outlet (male) fitting.
  - Tighten fittings.



**Figure 2-148. Drier Connection**

- (14) Connect Condenser.
- Lubricate O-ring and install #6 female straight fitting (21) to outlet (smaller) fitting on condenser.
  - Lubricate O-ring and install #8 female straight fitting (22) to inlet (larger) fitting on condenser.
  - Trim ends of #6 hose from drier (23) and connect to right fitting.
  - Trim ends of #8 hose from compressor (24) and connect to right fitting.
- (15) Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

e. Install Electrical Harnesses

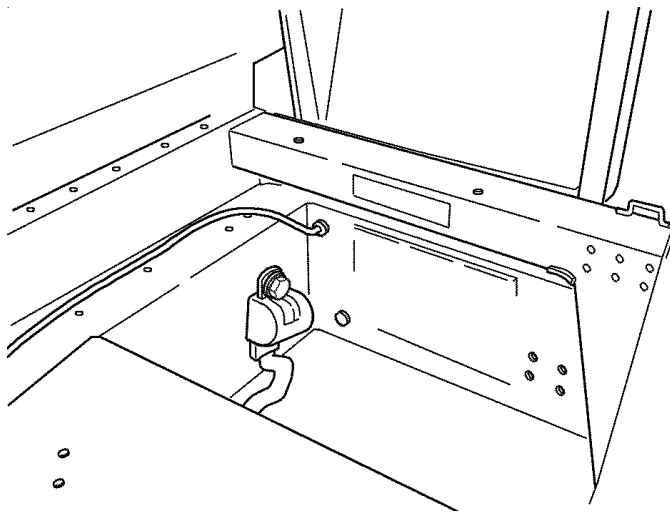


Figure 2-149. Routing

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).
- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. Route wires forward along transmission tunnel, then through grommet and into battery box.

## 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

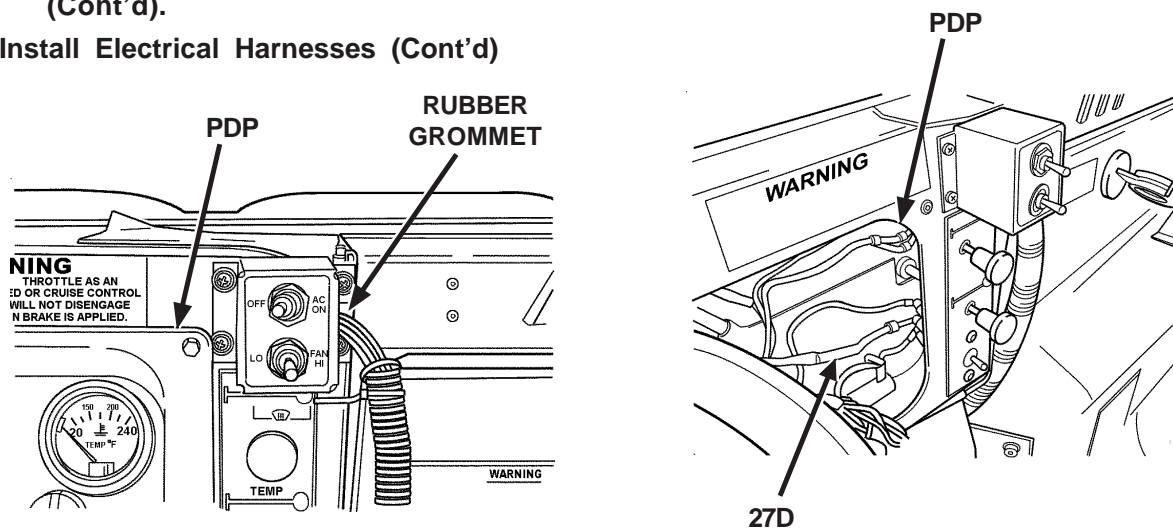


Figure 2-149.1 Electrical Harness Routing (Evaporator) Figure 2-150. Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open (PDP).
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled "27D") supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close (PDP) and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

### 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

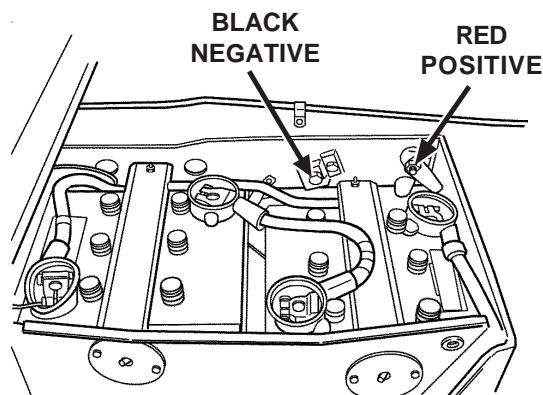
#### e. Install Electrical Harnesses (Cont'd)

##### **NOTE**

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

(5) Drier.

Connect extension harness (RD-4-5958-0) to pressure switches on drier.



**Figure 2-151. Battery Connection**

(6) Battery Box.

- a. Attach **RED** wire of power and ground harness to POSITIVE terminal of battery.
- b. Attach **BLACK** wire of power and ground harness to screw on NEGATIVE ground shunt.
- c. Connect batteries.
- d. Check for 24 Volts DC.

#### f. Secure and Wrap Hoses and Harnesses

##### **CAUTION**

- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
  - Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
  - Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.
- (1) Install around refrigerant lines and compressor harness in engine compartment.
  - (2) Secure with nylon ties.

## 2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

### g. Air Distribution Ducting

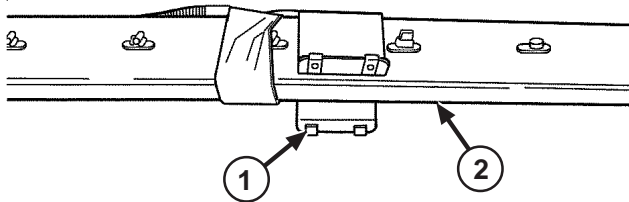


Figure 2-152. Attaching Ducting

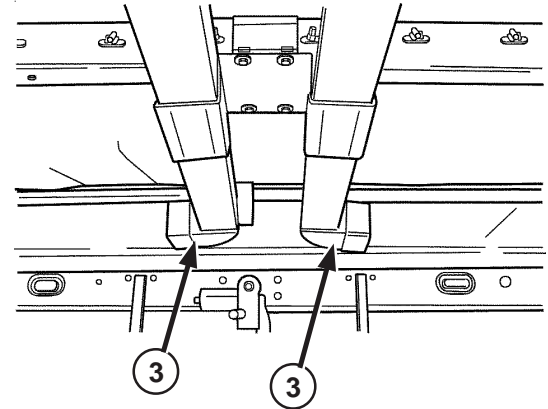


Figure 2-153. 90° Elbows

- (1) Four-Door Vehicles Without Ring Turret Only:
  - a. Attach square ducting to plenum.
  - b. Using support brackets (1), clamp ducting to b-pillar (2).
  - c. Attach 90° elbows (3) to forward end of ducts to turn air toward driver and front passenger.
  - d. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

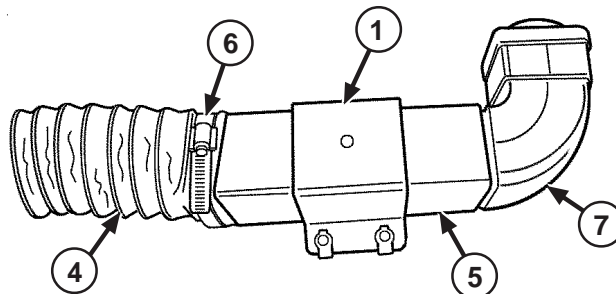


Figure 2-154. Flex Hose/90° Elbows

- (2) Four-Door Vehicles With Ring Turret Only:
  - a. Pre-bend band clamps and flex hose into 2.5 inch square.
  - b. Attach flex hose (4) to plenum (5) with band clamps (6). Do not overtighten.
  - c. Cut two eight inch sections of square ducting.
  - d. Attach 90° elbows (7) with louvers to one end of each eight inch section.
  - e. Apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.
  - f. Attach flex hose (4) to end of duct.
  - g. Secure duct to clamps with screws.
  - h. Attach ducts with louvers in desired locations with support brackets (1) and screws.

2-1.3 Installation of Air Conditioning Kit to M1025 and M1025A1 with GSIE Add-on-Armor (Cont'd).

h. Prepare System for Use

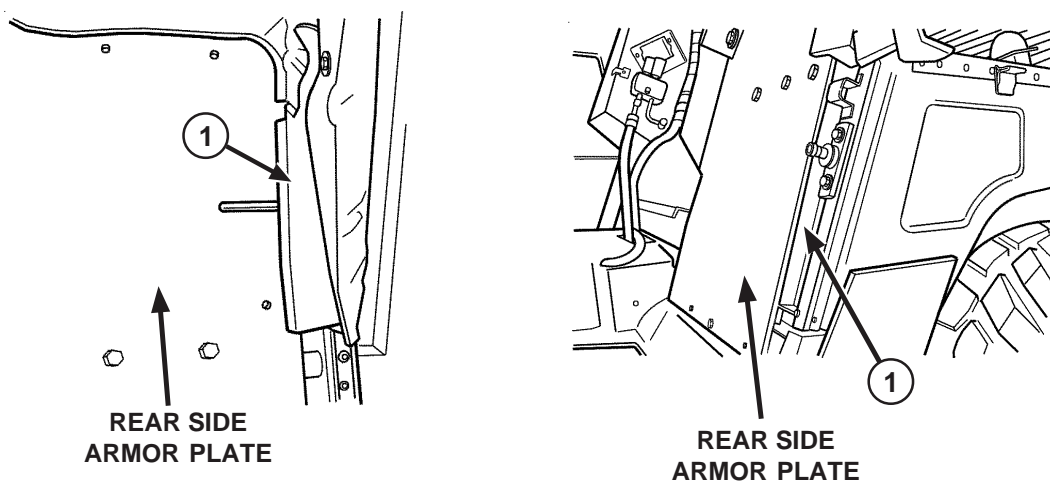


Figure 2-155. Rear Side Armor Plates

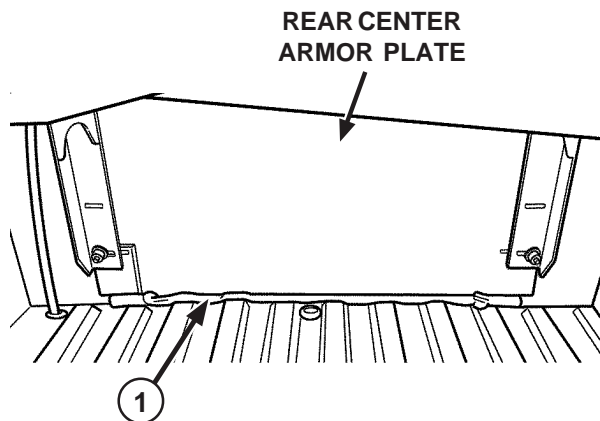


Figure 2-156. Rear Center Armor Plate

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).



**2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor.****WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

**CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

**NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnect/reconnect battery.
  3. Route and attach power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor

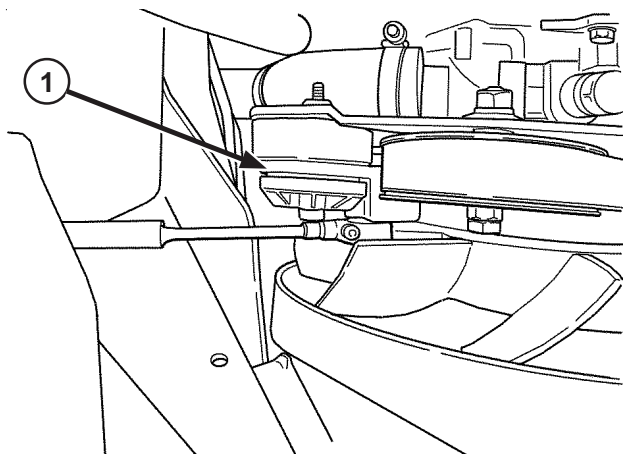
#### **CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply could result in damage to equipment.

#### **NOTE**

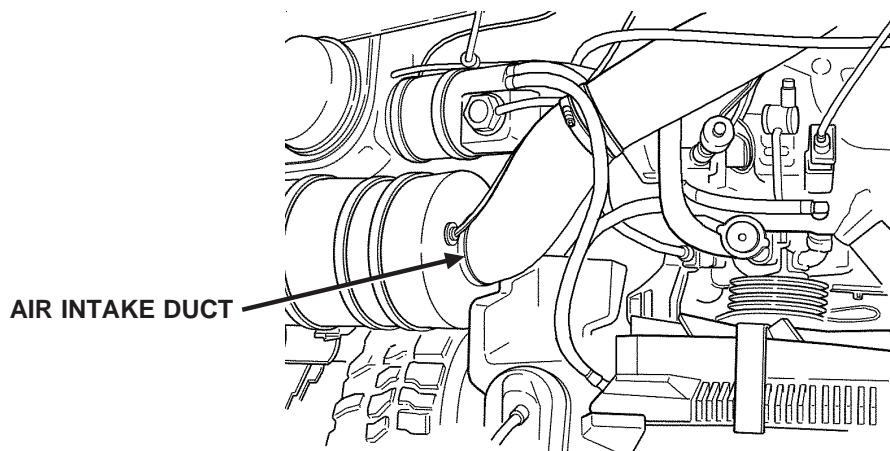
The Compressor Kit is designed to be installed with both versions of the liten serpentine belt drive systems.

#### **Compressor Mounting Model RD-9-10012-0:**



**Figure 2-157. Breaker Bar**

- (1) Using a 3/8 ratchet or breaker bar, rotate belt tensioner (1). Slip belt off passenger side grooved idler pulley. Remove belt.

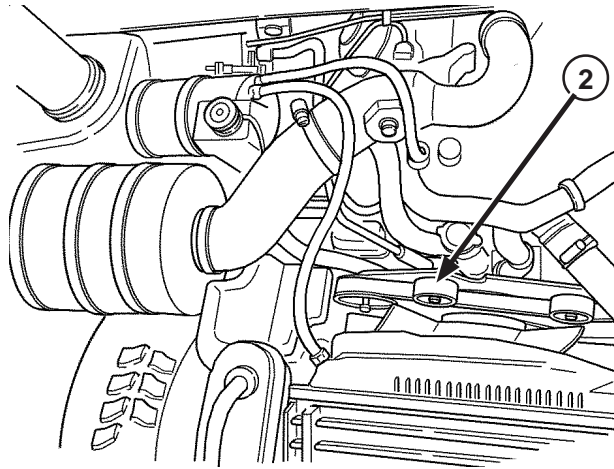


**Figure 2-158. Air Intake Duct Removal**

- (2) Mark air intake duct at the air filter housing. Remove air intake duct.

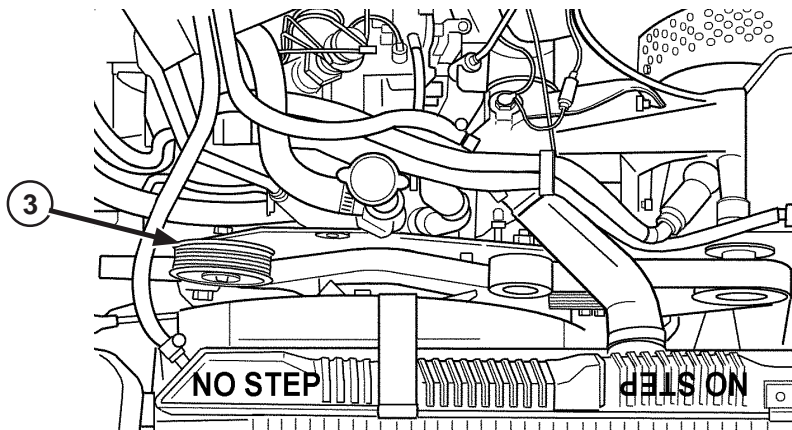
## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-159. Center Flat Idler Pulley**

- (3) Remove center flat idler pulley (2) from engine pulley plate.
- (4) Loosen alternator and power steering pump belts.
- (5) Slip belts off alternator and power steering pump pulleys.
- (6) V-belts. Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator, and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install be longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-160. 5-Inch Idler Pulley Removal**

- (7) Remove passenger side grooved 5-inch idler pulley (3).

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

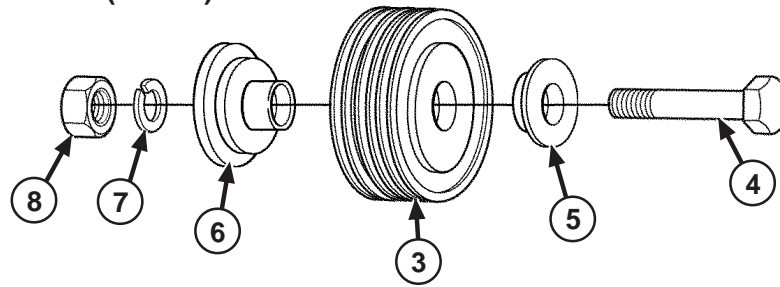


Figure 2-161. 5-Inch Idler Pulley

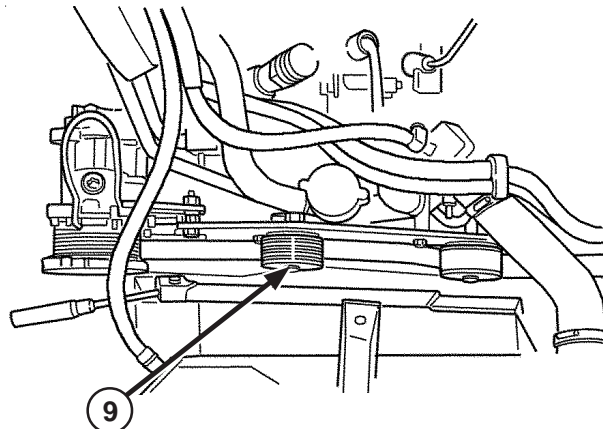


Figure 2-162 3-Inch Idler Pulley

- (8) Remove bolt (4), washer (5), bushing (6), lockwasher (7), and nut (8) from 5-inch idler pulley (3). Set aside.
- (9) Install new 3-inch grooved idler pulley (9) where center flat idler pulley was removed.
- (10) Secure with hardware from 5-inch pulley (3).

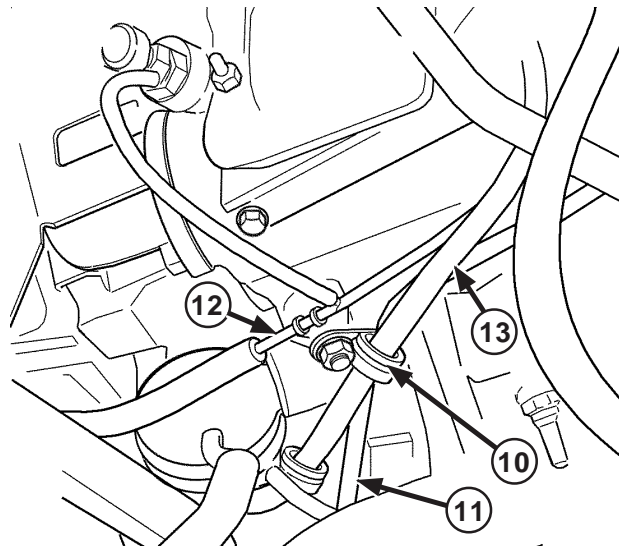
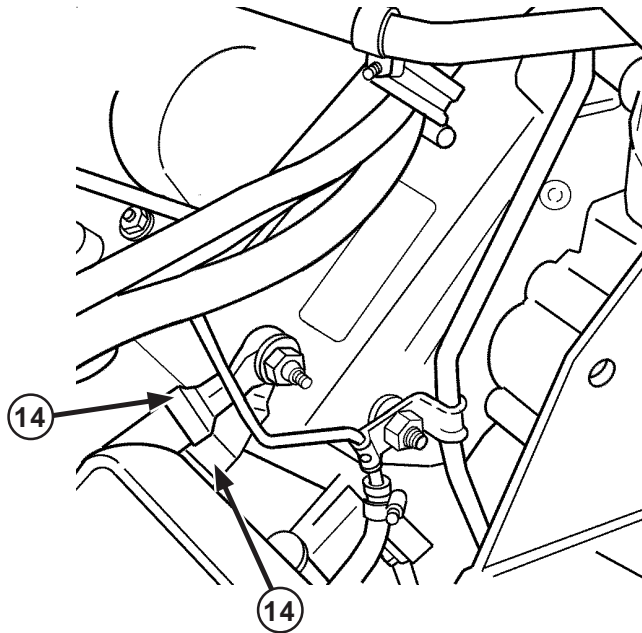


Figure 2-163. Compressor Installation

- (11) Remove clamps (10). Attach fuel line (11), fuel return line (12), and wire harness (13) to engine. Set hardware aside for future use.

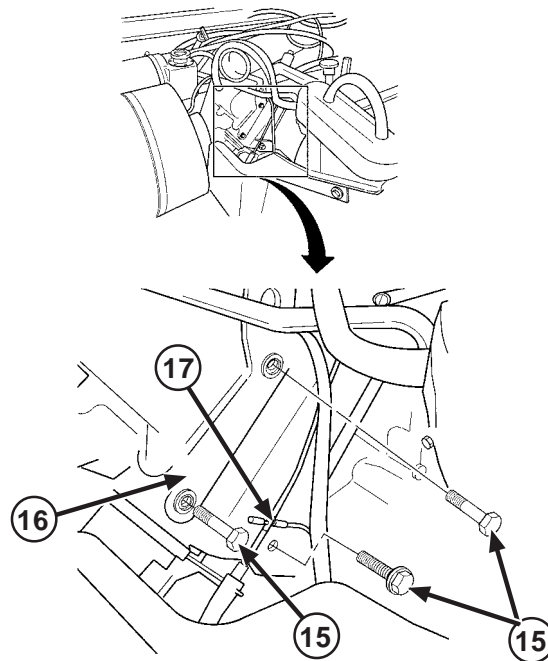
## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-164. Ground Cables Disconnect**

- (12) Disconnect ground cables (14) from lower cylinder head stud. Set aside hardware.

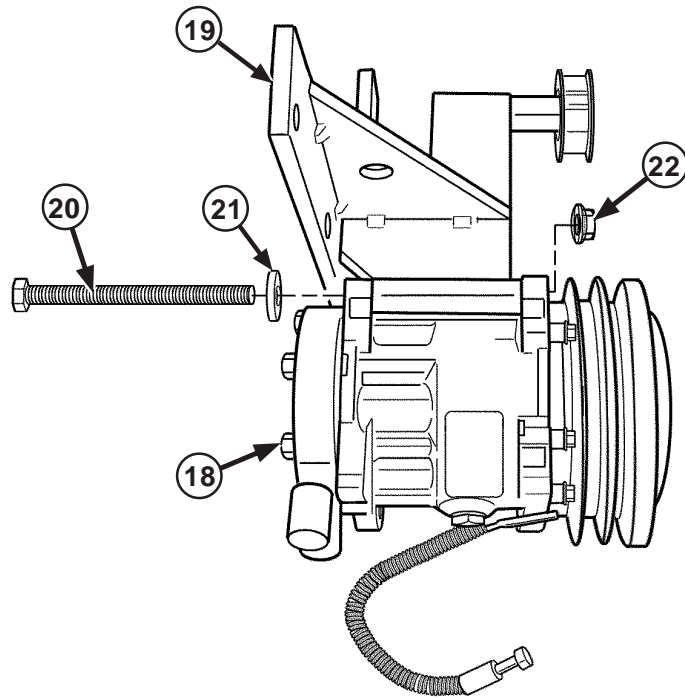


**Figure 2-165. Air Intake Duct Support Bracket**

- (13) Remove studs/bolts (15), attaching air intake duct support bracket (16), and fuel line clamps to engine.
- (14) Disconnect fuel return hoses from fuel return line "T" (17).

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)



**Figure 2-166. Compressor Installation**

- (15) Position compressor (18) on mounting bracket (19) and secure with bolt (20), washer (21), and locknut (22). Tighten bolt (20) to 18 ft-lbs. Do not overtighten.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

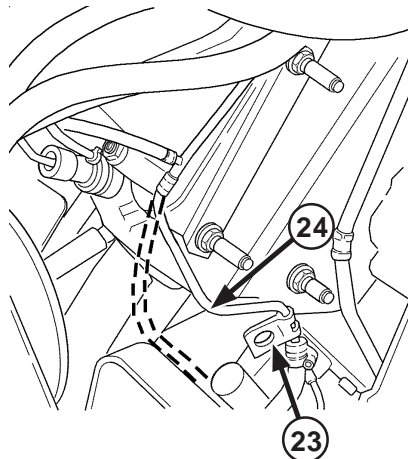
### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

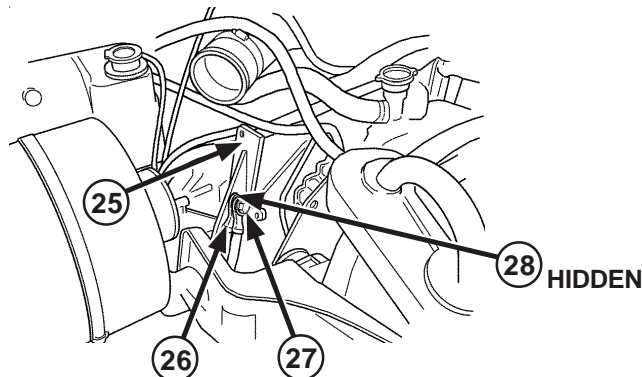
#### **NOTE**

To achieve good electrical ground, make sure no paint is present under ground cables, in threaded hole, or on mounting surface.



**Figure 2-167. Clamp and Fuel Vent Line**

- (16) Loosen clamp (23) attaching fuel vent line (24) to valve cover stud.
- (17) Bend fuel vent line slightly rearward to clear compressor mount bracket.



**Figure 2-168. Mounting Bracket and Ground Cables**

- (18) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (19) Lower mounting bracket (25) and compressor onto mounting location in front left side of engine.
- (20) Secure ground cables (26) to mounting bracket (25) with original bolt (27) and washers (28).

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

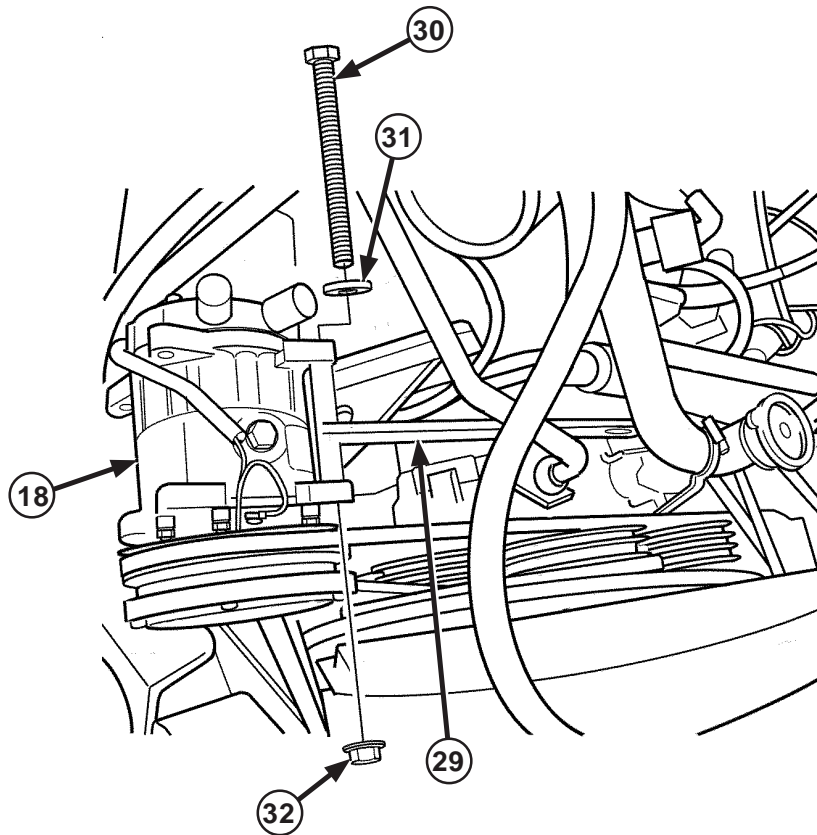


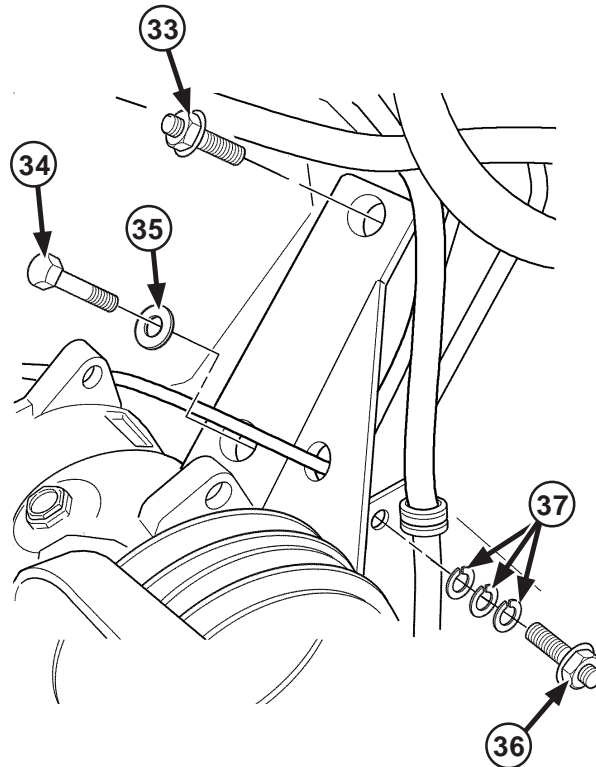
Figure 2-169. Compressor Adjusting Arm

- (21) Position compressor adjusting arm (29) on compressor (18) and secure with bolt (30), washer (31), and locknut (32). Tighten bolt (30) to 18 ft-lbs. Do not overtighten.



## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-170. Compressor Mounting Bracket to Cylinder Head**

- (22) Secure mounting bracket upper tabs to cylinder head with stud (33), screw (34), and lockwasher (35).
- (23) Secure mounting bracket lower tabs to engine block with stud (36) and three lockwashers (37). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (24) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd).

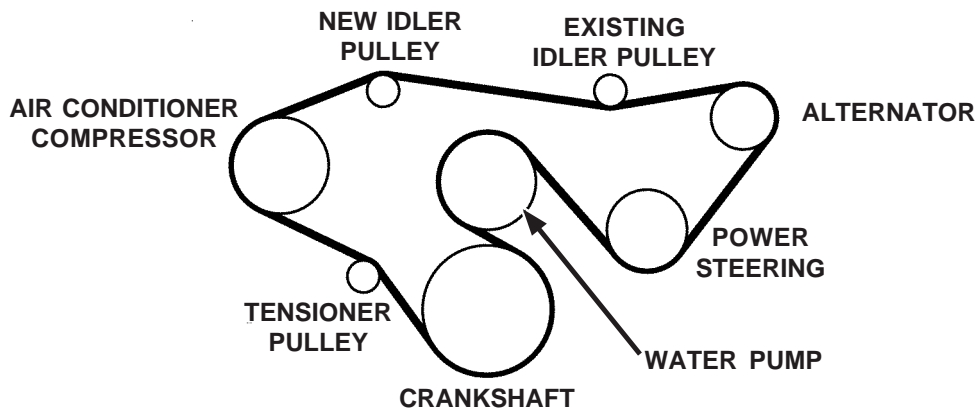


Figure 2-171. AC/Power Steering Belt

(25) Install new AC/power steering belt as shown.

**WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

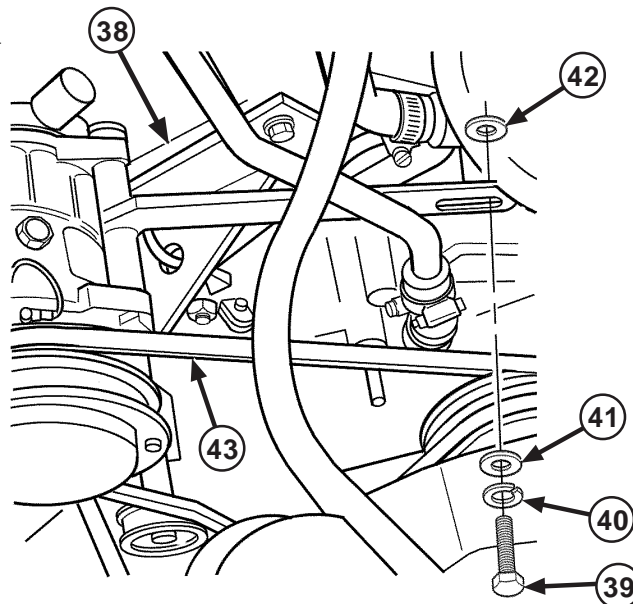
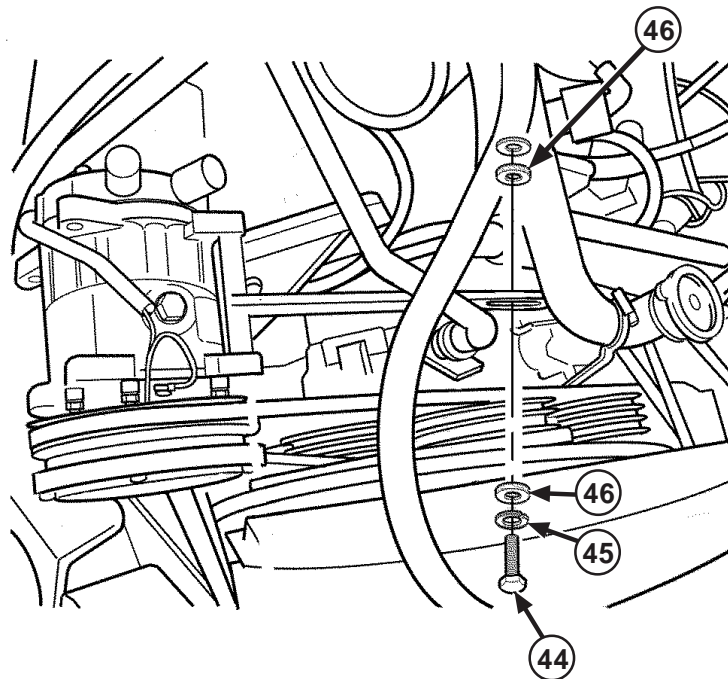


Figure 2-172. Adjusting Arm

- (26) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (27) Secure adjusting arm (38) to water pump housing with bolt (39), lockwasher (40), washer (41), and washer (42).
- (28) Adjust tension on belt (43). Rotate compressor outboard until proper belt tension is reached.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-173 Compressor Adjustment**

- (29) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.
- (30) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolts (44), and lockwashers (45) attaching lower radiator pipe to vehicle frame. Install two or four spacers (46) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.
- (31) Reinstall alternator belts and adjust belt tension.
- (32) Reinstall air intake duct after connecting refrigerant hoses to compressor.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

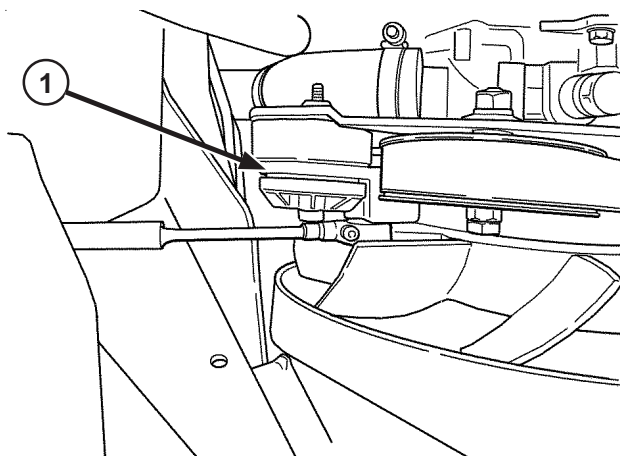
#### **CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

#### **NOTE**

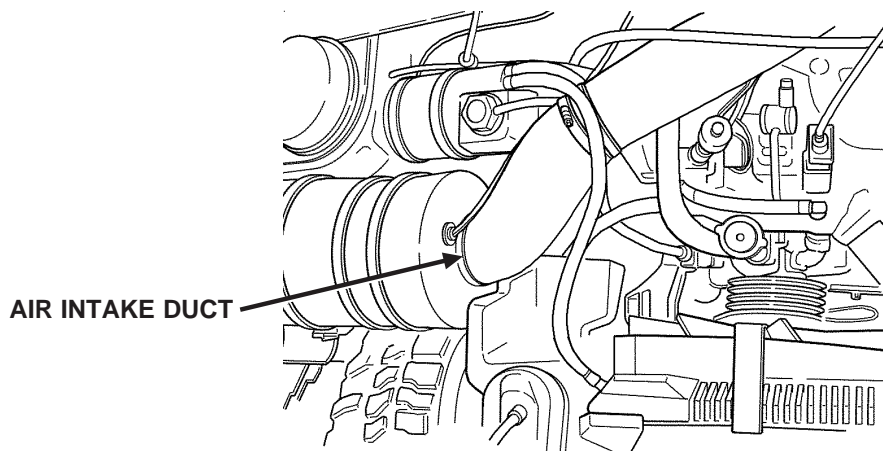
The Compressor Kit is designed to be installed with both versions of the liten serpentine belt drive systems.

#### **Compressor Mounting Model 2-4114-0:**



**Figure 2-174. Breaker Bar**

- (1) Using a 3/8 ratchet or breaker bar, rotate belt tensioner (1). Slip belt off passenger side grooved idler pulley. Remove belt.

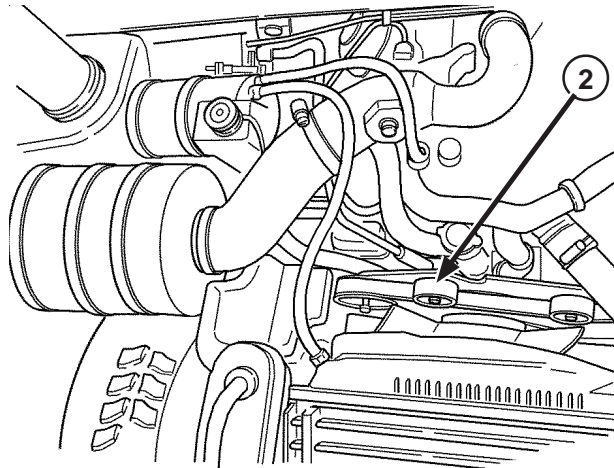


**Figure 2-175. Air Intake Duct Removal**

- (2) Mark air intake duct at the air filter housing. Remove air intake duct.

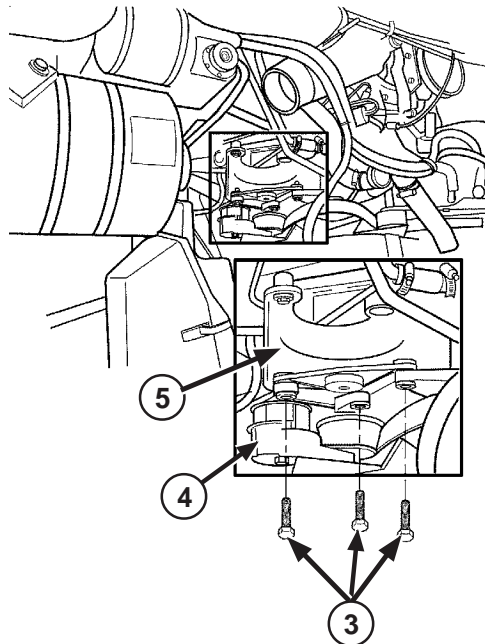
## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-176. Center Flat Idler Pulley**

- (3) Remove center flat idler pulley (2) from engine pulley plate.



**Figure 2-177. Idler Pulley Bracket Removal**

- (4) Remove three bolts (3) and idler pulley bracket (4) from tensioner mount bracket (5).

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

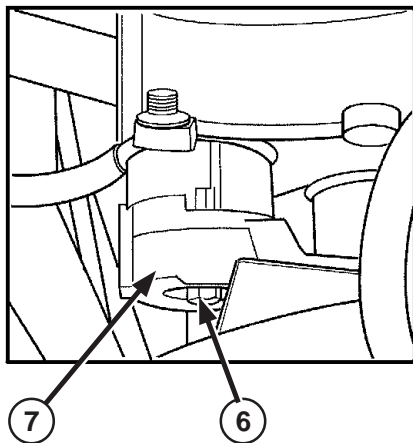


Figure 2-178. Tensioner Bracket Removal

- (5) Remove bolt (6) and tensioner mount bracket (7). Set tensioner and hardware aside for future use.

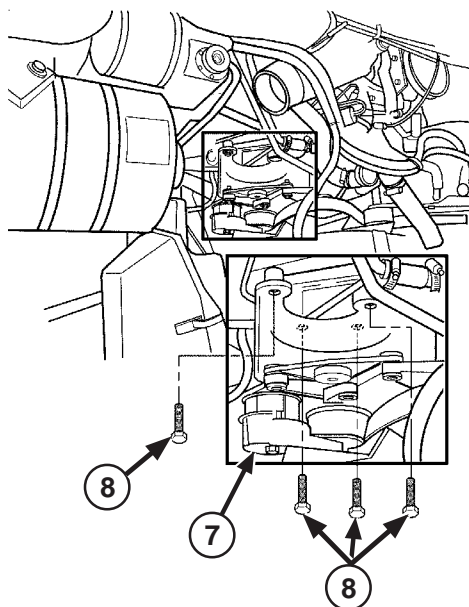
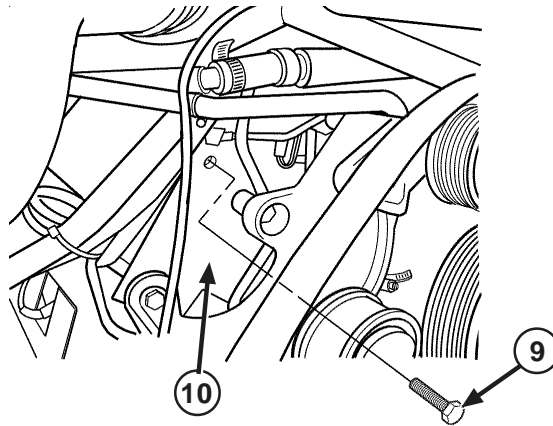


Figure 2-179. Tensioner Mount Bracket Removal

- (6) Remove four bolts (8) and tensioner mount bracket (7) from engine. Set hardware aside for future use.

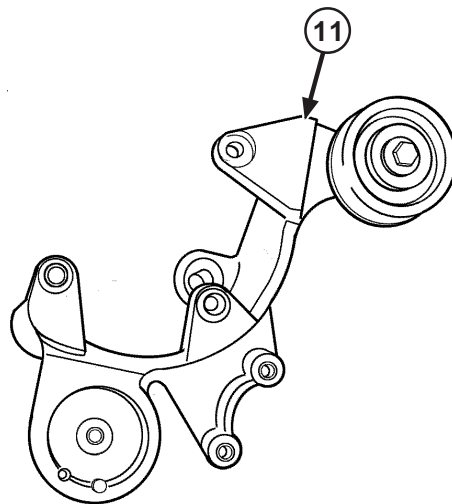
## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-180. Engine Lift Bracket**

- (7) Remove upper bolt (9) from engine lift bracket (10) and cylinder head.



**Figure 2-181. Tensioner**

- (8) Position drill template on tensioner mounting surface of tensioner mount bracket (11).  
 (9) Drill 3/8 inch (.375 in.) diameter hole in new location.  
 (10) Verify that tensioner center bolt can be installed with tensioner stop pin inserted in drilled hole.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

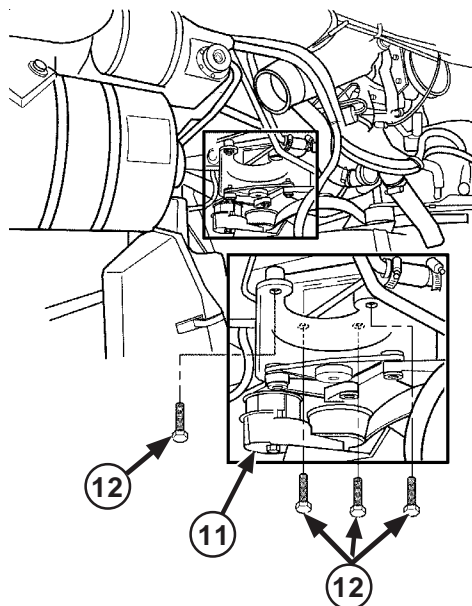


Figure 2-182. Tensioner Mount Bracket

(11) Install four bolts (12) and tensioner mount bracket (11) to engine.

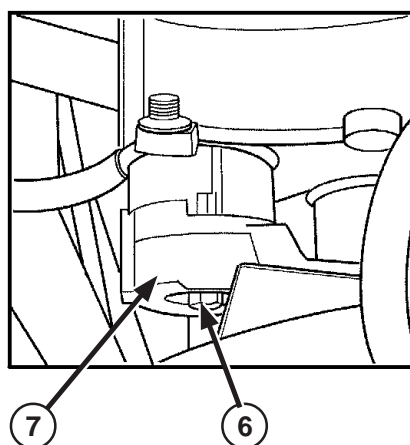


Figure 2-183. Belt Tensioner Installation

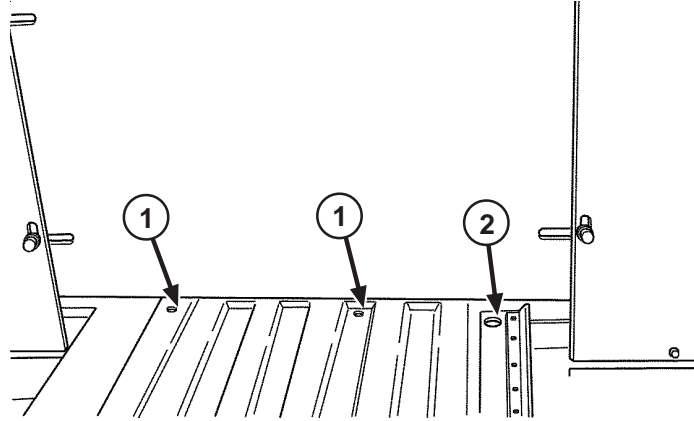
- (12) Install bolt (6) and belt tensioner to tensioner mount bracket (7) with stop pin in drilled hole.
- (13) Attach compressor/compressor mount brackets to belt tensioner mount bracket and cylinder head at engine lifting bracket top hole.
- (14) Tighten all compressor mount bolts.
- (15) Remove original belt and install new belt from kit.
- (16) Re-install air intake duct after connecting refrigerant hoses and compressor wire to compressor.



## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

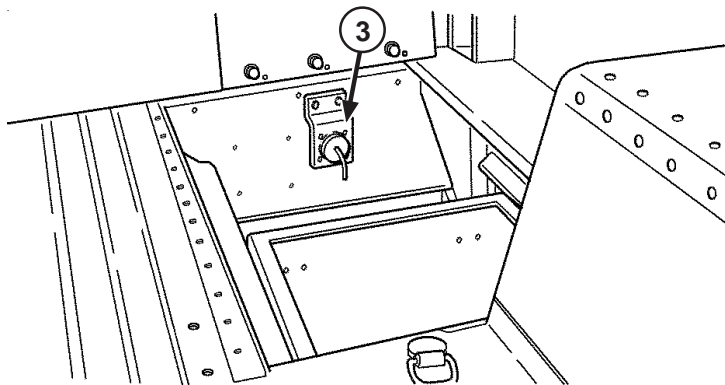
### b. Install Evaporator and Condenser

- (1) If present, remove plywood panel from between seats on top of transmission tunnel.
- (2) Remove top screws from driver's side mats and transmission tunnel.



**Figure 2-184. Transmission Tunnel Hole**

- (3) Position drill template, found in Installation Kit, on transmission tunnel and tape into position. Drill two 11/16 inch (.6875 inch) holes (1) and one 11/4 inch (1.25 inch) hole (2) as shown on side of transmission tunnel.
- (4) De-burr panel.
- (5) Remove front passenger seat to expose battery box.



**Figure 2-185. Auxiliary Power Panel**

- (6) Remove either auxiliary power panel (3) or batteries to gain access to drill hole in battery box.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

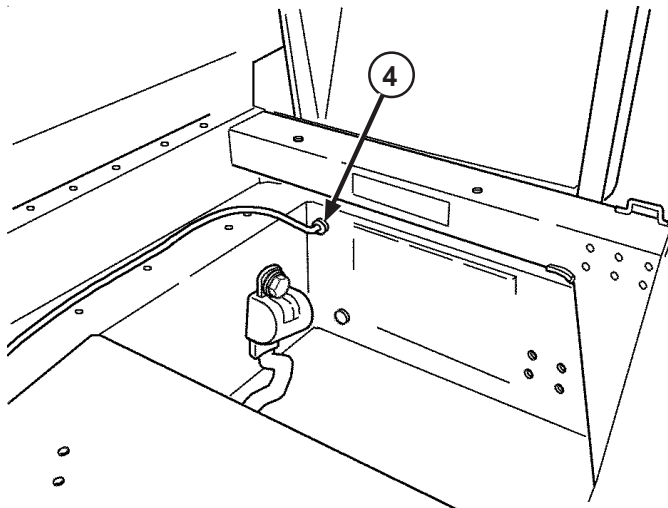


Figure 2-186. Battery Box Panel Hole

- (7) Drill 3/4 inch hole in rear battery box panel near top inboard edge.
- (8) Install grommet (4).

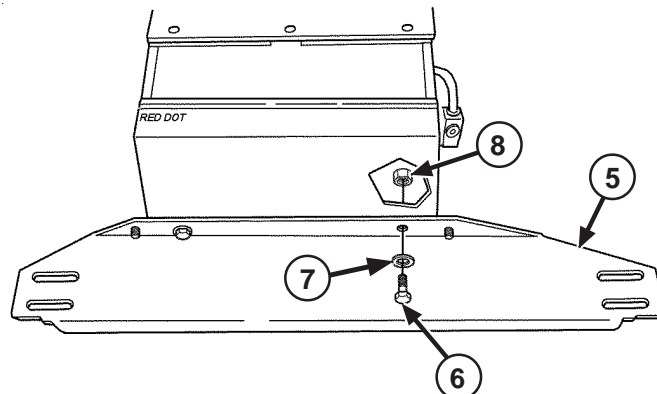
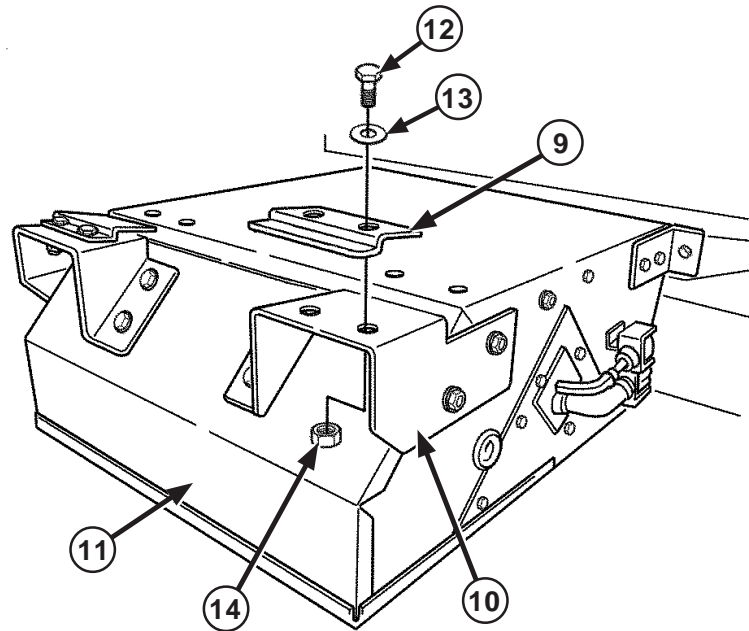


Figure 2-187. Lower Support Bracket

- (9) Attach lower support bracket (5) to evaporator unit "L" brackets using two bolts (6), flat washers (7), and locknuts (8).

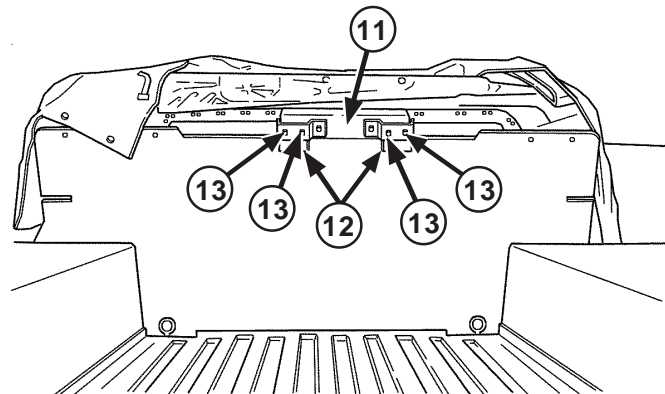
## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-188. Clamp Brackets**

- (10) Loosely attach upper clamp brackets (9) to upper support brackets (10) on evaporator unit (11) with four bolts (12), flat washers (13), and locknuts (14).

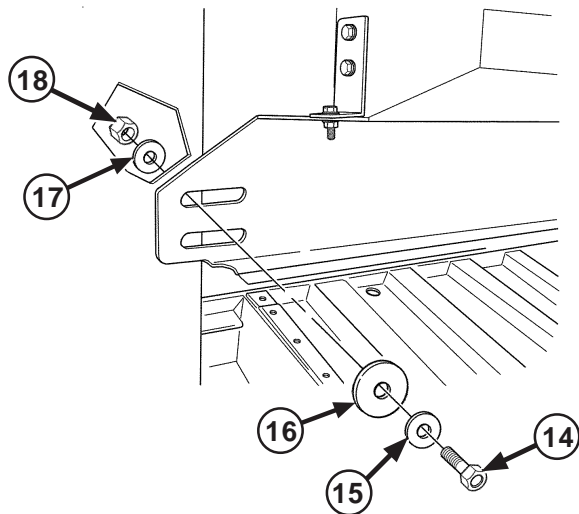


**Figure 2-189. Install Evaporator Unit**

- (11) Remove two lower center 1/2 inch bolts from rear center armor plate and rear side armor plates.
- (12) Hang evaporator unit (11) from inside top of armor plate (above holes drilled in transmission tunnel).
- (13) Adjust evaporator unit (11) to align slots in lower support bracket (12) with slots in center armor plate.
- (14) Close hatch and check for handle interface with top of evaporator unit.
- (15) Tighten evaporator unit top clamp bracket bolts (13).

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

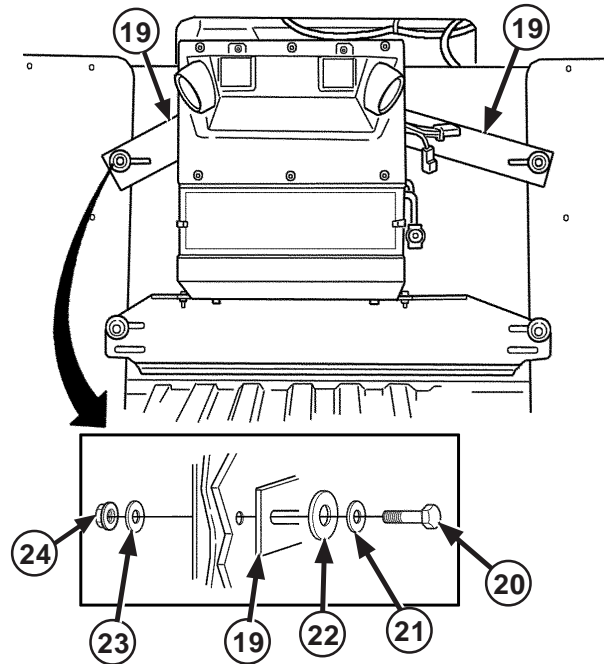


**Figure 2-190. Lower Support Bracket**

- (16) Insert four new bolts (14), flat washers (15), and oversize washers (16) through lower evaporator support bracket and armor plates. Install flat washers (17) and locknuts (18) and tighten snug.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



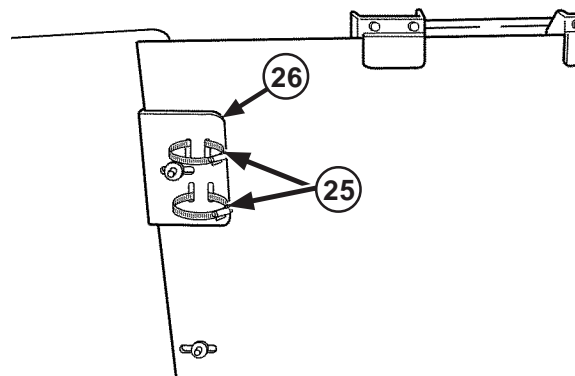
**Figure 2-191. Evaporator Side Brackets**

- (17) Remove two top center bolts from rear center armor plate and rear side armor plate.
- (18) Loosely attach evaporator side brackets (19) to evaporator unit with original hardware.

#### NOTE

For ease of installation, pre-bend ends of band clamps prior to installing on receiver/drier bracket.

- (19) Install bolts (20) flat washers (21), and oversized washers (22) through evaporator side brackets (19), armor plates, and receiver/drier bracket, and secure with flat washers (23) and locknuts (24). Tighten snug.

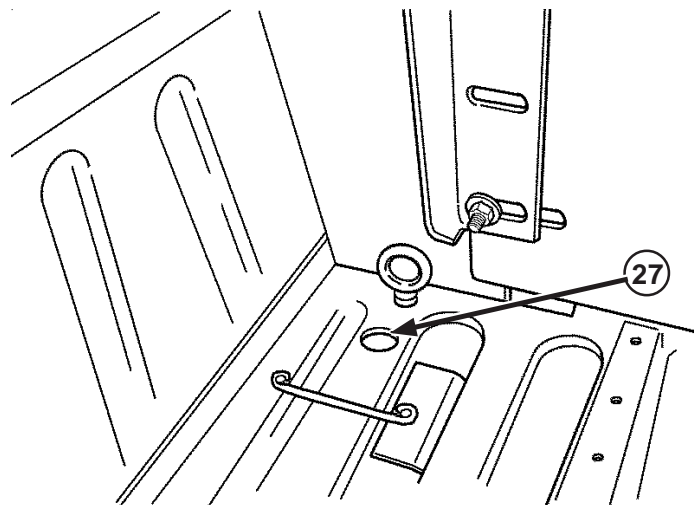


**Figure 2-192. Band Clamps**

- (20) Install band clamps (25) on receiver drier bracket (26).

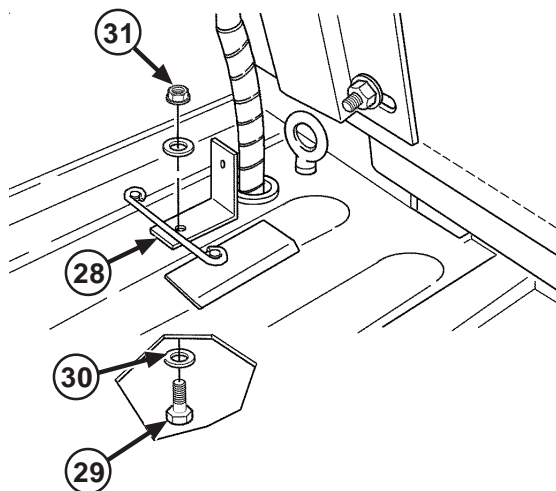
2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)



**Figure 2-193. Condenser Hose Hole**

(21) Drill a 1.25 inch diameter hole (27) for condenser hose in bed floor. De-burr hole.



**Figure 2-194. Hose Guard**

(22) Position hose guard (28) in recessed channel of bed behind condenser hose hole.

(23) Using hose guard (28) as a template, drill 1/4 inch diameter hole in bed.

(24) From underneath vehicle, insert bolt (29) and washer (30) through hose guard (28) and bed.

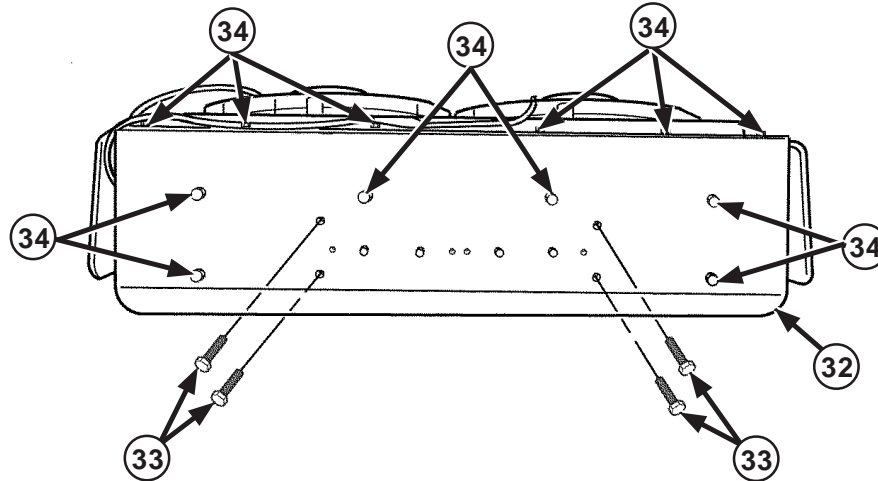
(25) Secure with washer (30) and locknut (31).

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd).

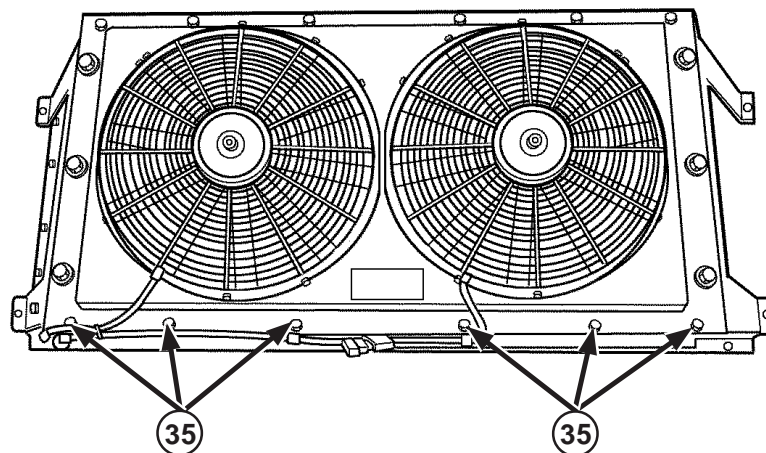
#### **CAUTION**

When handling condenser assembly, avoid damaging fins on underside of condenser. Failure to comply could result in damage to equipment.



**Figure 2-195. Air Deflector Plate**

- (26) Cut two ties on lower edge of air deflector plate (32).
- (27) Remove four screws (33) from electrical EMI filter panel and air deflector plate (32). Set hardware aside for future use.
- (28) Remove twelve screws (34) and wire harness clamps (if applicable) from air deflector plate (32) and condenser assembly. Discard air deflector plate (32).



**Figure 2-196. Condenser Assembly**

- (29) Install six screws (35) to top edge of condenser assembly.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

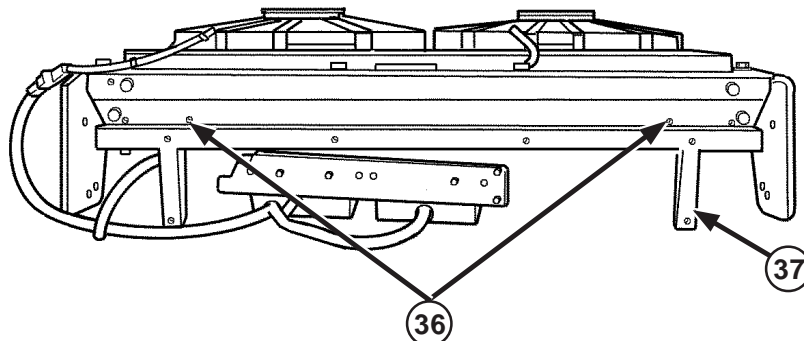


Figure 2-197. Support Brackets Removal

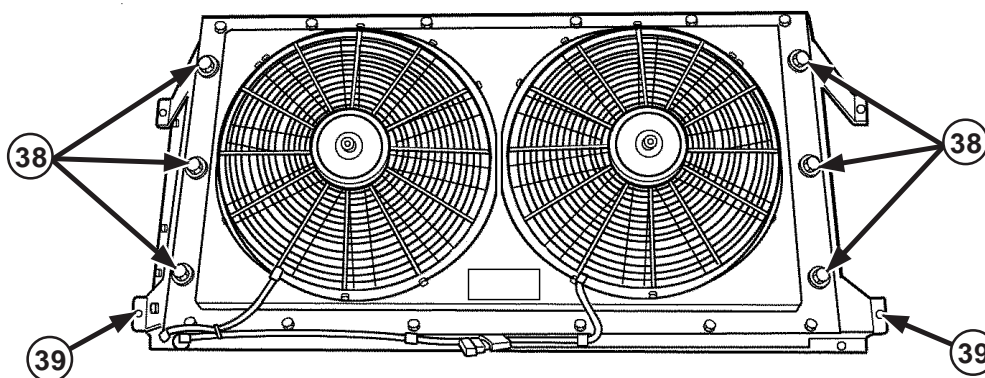


Figure 2-198. Side Condenser Mount Plates Removal

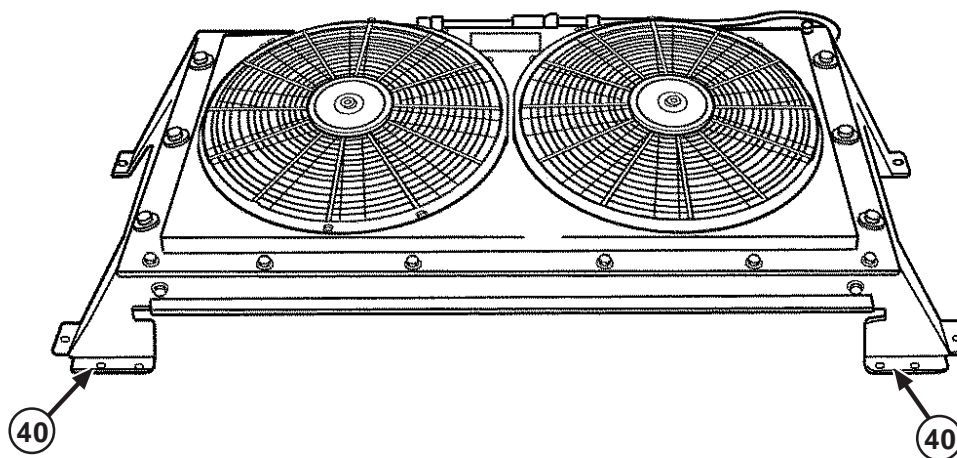


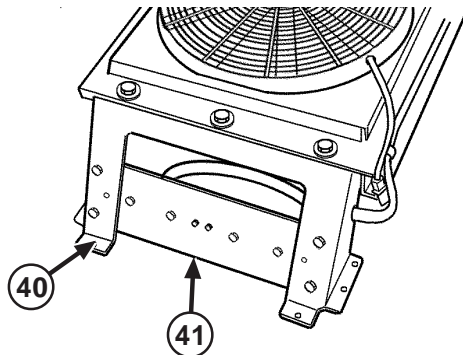
Figure 2-199. Condenser Mount Brackets

- (30) Remove two screws (36) and support brackets (37). Discard support brackets (37).
- (31) Remove six screws (38) and side condenser mount plates (39). Discard side condenser mount plates (39).
- (32) Install two condenser mount brackets (40) and secure with existing hardware.



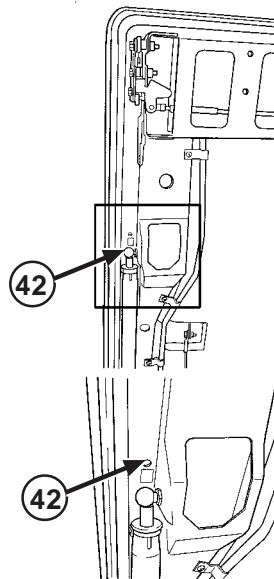
## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-200. EMI Filter Panel**

- (33) Install electrical EMI filter panel (415) to plumbing end of condenser mount bracket (40). Panel (41) should be oriented so that the wiring is on the bottom. Secure with original hardware.
- (34) Fold and secure pressure switch wires onto condenser harness.
- (35) Open hatch.



**Figure 2-201. Stiffener Hole**

- (36) Drill a 3/8 inch (.375 in.) hole (42) in outboard flange of stiffener, approximately one inch forward of gas shock pivot point on each side of hatch.
- (37) Place template on outside of hatch.
- (38) Align with forward edge and hole (42).
- (39) Drill six 3/8 inch (.375) mounting bolt holes.
- (40) Drill three 1 1/4 inch (1.250 in.) hose/wire holes.
- (41) Position condenser assembly on rear hatch with wire harness and fitting on driver's side of hatch. Secure with bolts, washers, and locknuts.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

c. Install Drier

**CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.

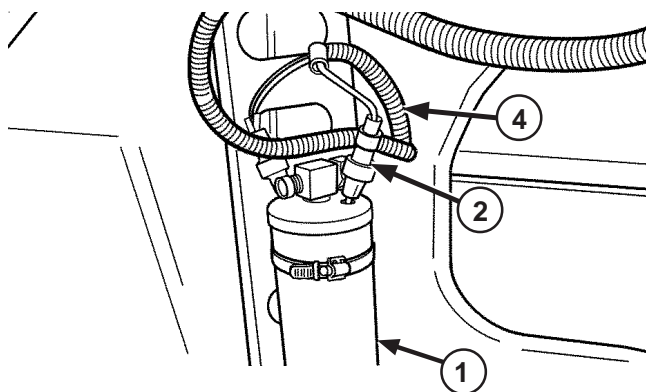


Figure 2-202. Receiver/Drier

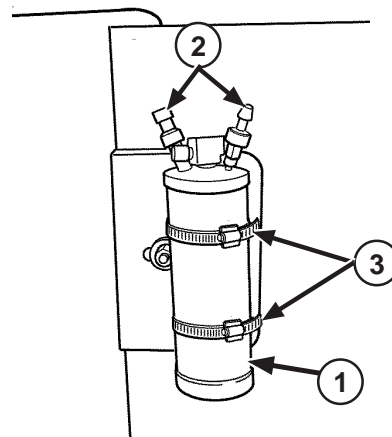


Figure 2-203. Pressure Switches

- (1) Remove screw on caps from ports on top of receiver/drier (1).

**NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.
- (3) Position receiver/drier (1) with inlet (male) fitting under condenser fittings and outlet (female) fitting pointing over top of armor plate.
- (4) Install receiver/drier in band clamps (3).
- (5) Connect condenser harness (4) to pressure switches (2) on receiver/drier (1).

**2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).****d. Install Refrigerant Hoses****CAUTION**

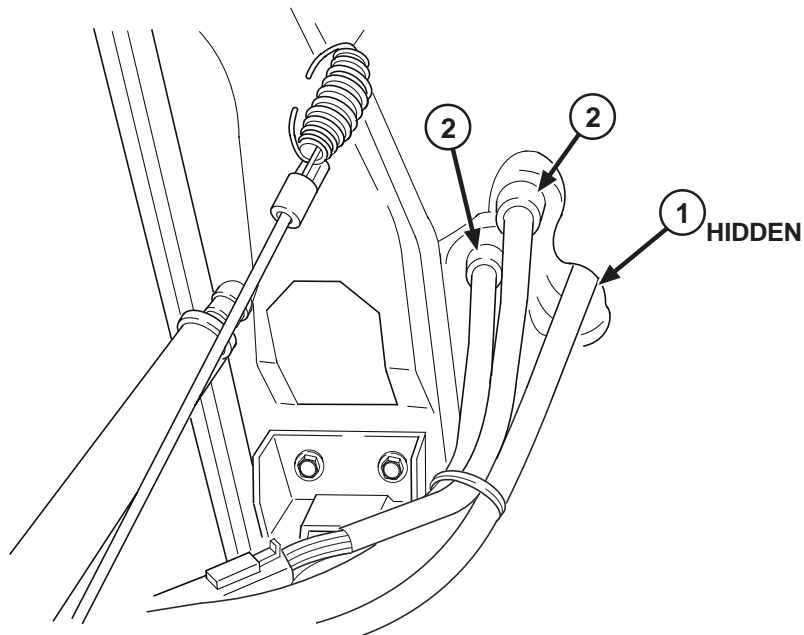
- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply could result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply could result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioner system. Failure to comply could cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply could result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply could result in damage to equipment.
- Before connecting fittings, check to see that O-rings are present and undamaged. Failure to comply could result in damage to equipment.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses. Failure to comply could result in damage to equipment.

**NOTE**

- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

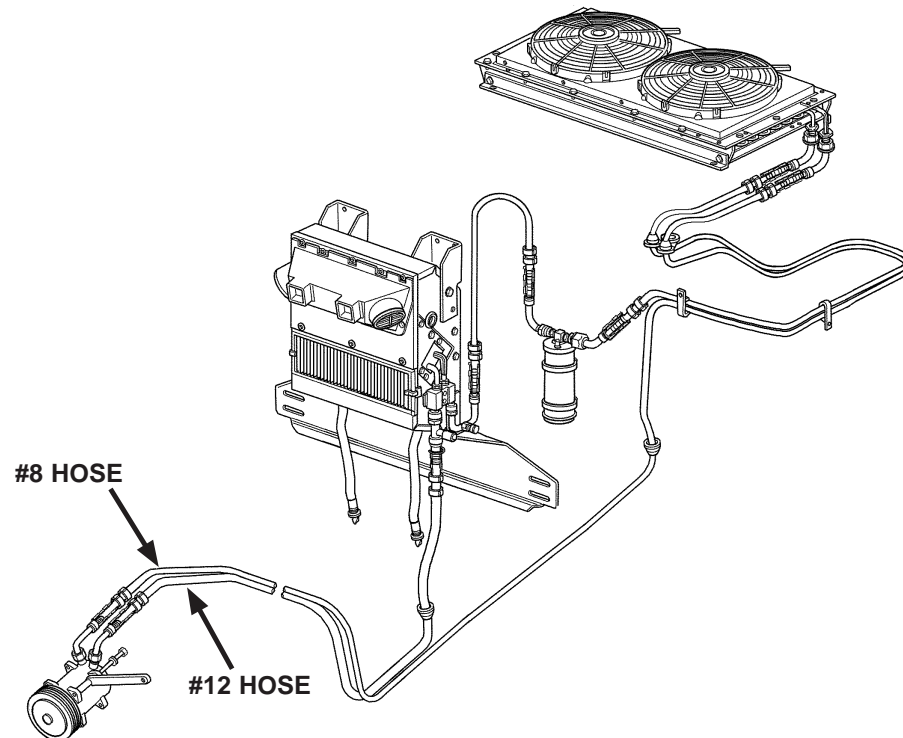


**Figure 2-204. Hose Routing**

- (1) Trim grommets (2) to achieve a snug fit around hoses and wire harnesses.
- (2) Install one grommet (1) in rear most hole from top of hatch.
- (3) Install two grommets (2) in remaining holes in hatch from underside of hatch.
- (4) From top of hatch, push six-pin male connector from condenser wire harness through grommet in rear most hole from top of hatch.
- (5) Pull approximately eight inches of wire harness through grommet.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-205. Refrigerant Hose Routing**

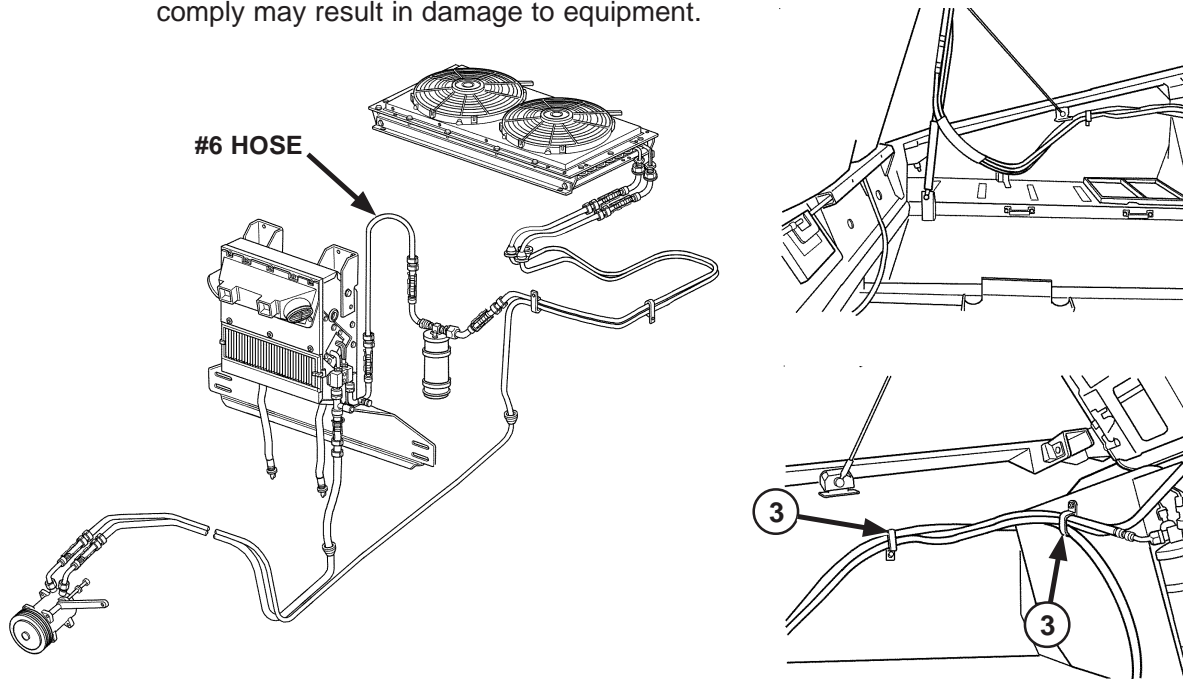
- (6) Compressor to condenser, #8 hose:
  - a. Route hose up through outboard grommet in hatch to condenser inlet fitting.
- (7) Evaporator to compressor, #12 hose:
  - a. Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. Route both #8 and #12 hoses over engine and behind air intake duct to passenger side of engine. Continue forward to compressor.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

**CAUTION**

- Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply may result in damage to equipment.
- Hoses should span no more than two feet without being secured. Failure to comply may result in damage to equipment.

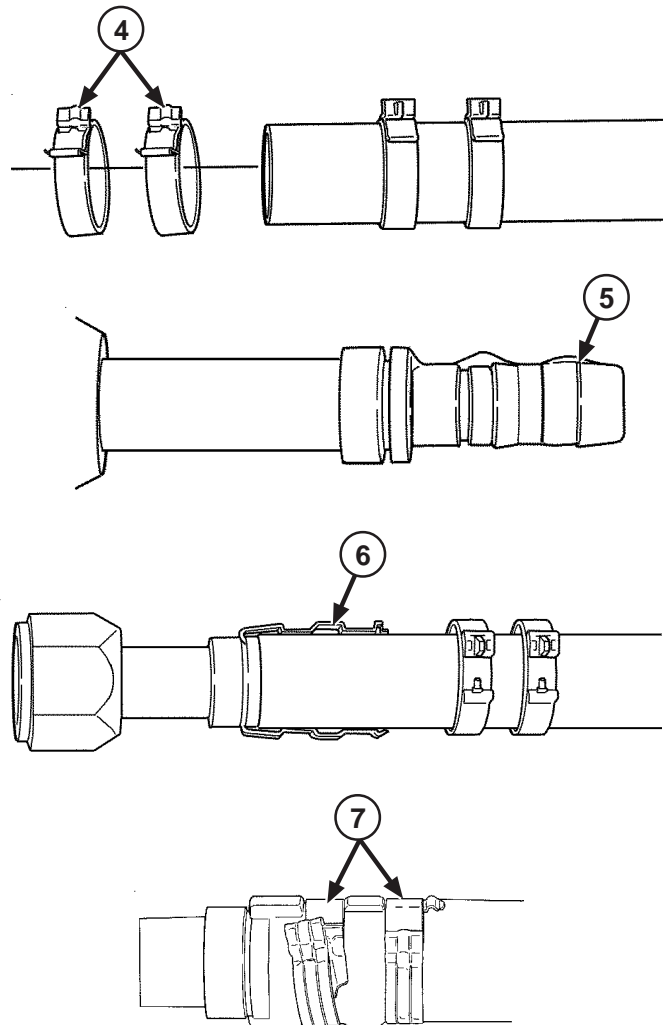


**Figure 2-205.1. Refrigerant Hose Routing**

- (8) Evaporator to drier, #6 hose:
  - a. Cut a 28-inch section from #6 hose. Route 28-inch section of #6 hose over armor plate.
  - b. Secure to outlet (female) fitting on drier.
- (9) Drier to condenser, #6 hose:
  - a. Route remaining length of #6 hose up through inboard grommet in hatch to condenser outlet fitting. Hose should match length of wire harness to drier.
  - b. Secure #6 hose, #8 hose, and jumper wire harness together with four nylon ties from grommets in hatch to drier pressure switch connectors.
  - c. Secure hoses and wire harness to gas shock. Hatch should be able to open and close in both directions without straining hoses.
  - d. Drill hole in side of cargo cover and secure hoses and wire harness to cargo cover with clamp (3), screw, washer, and locknut.
  - e. Secure hoses and wire harness to back armor plate with clamp (3), screw, washer, and locknut.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)

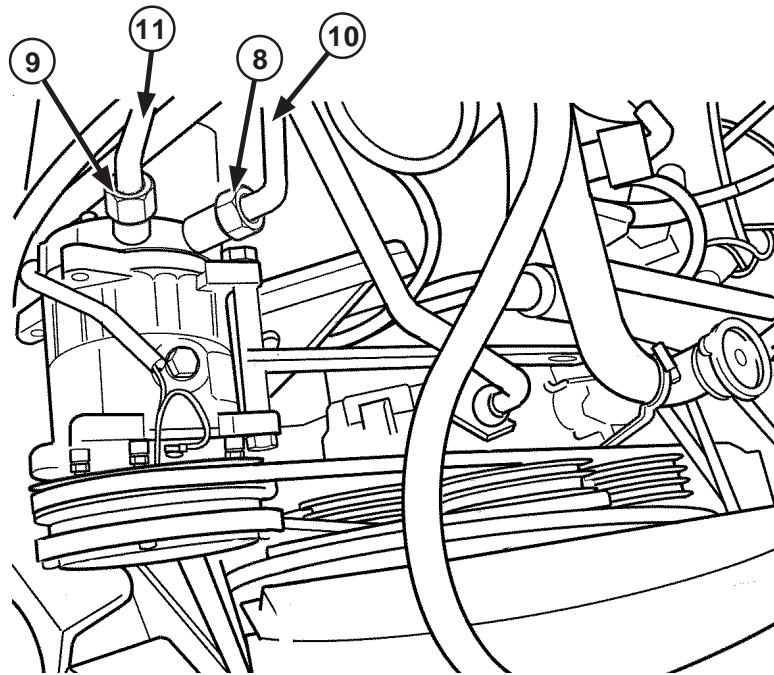


**Figure 2-206. Refrigerant Hose Preparation**

- (10) Prepare refrigerant hoses for connection:
- Cut hose to proper length. Cut should be square to hose.
  - Slide two clips (4) onto cut end of hose. Both clips should be oriented in same direction.
  - Lubricate connection nipple (5).
  - Insert nipple fully into hose.
  - Snap the cage (6) over the hose and groove on nipple. The cage should rotate in groove.
  - Slide the clips over the cage and into the grooves on nipple.
  - Close the clips. The bump and lock latch (7) alignment must be square.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)



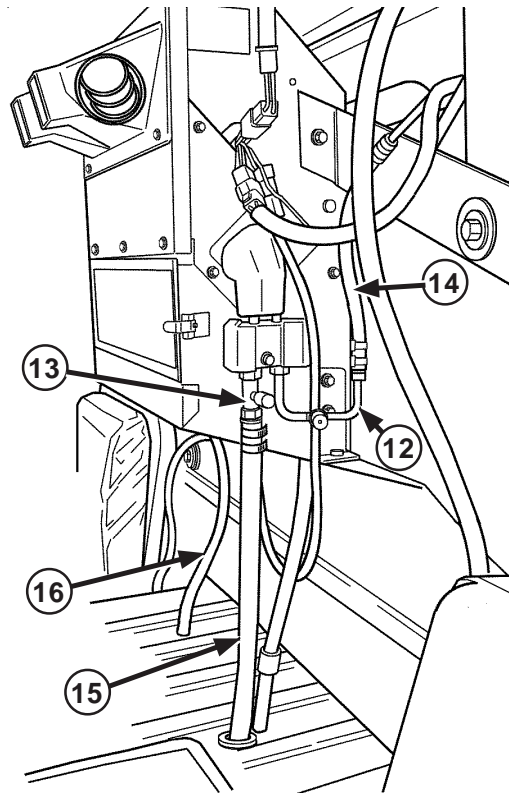
**Figure 2-207. Compressor Connection**

- (11) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (8) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (9) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (10) and #12 (11) hoses to length and connect to fittings.
  - e. Tighten fittings.



## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-208. Evaporator Connection**

- (12) Connect Evaporator.
- a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (12) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (13) on forward expansion valve connection.
  - d. Trim ends of #6 (14) and #12 (15) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (16) to reach from bottom of evaporator unit to top of transmission tunnel. Install duck bill fittings onto drain hoses.
  - g. Attach drain hoses (16) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

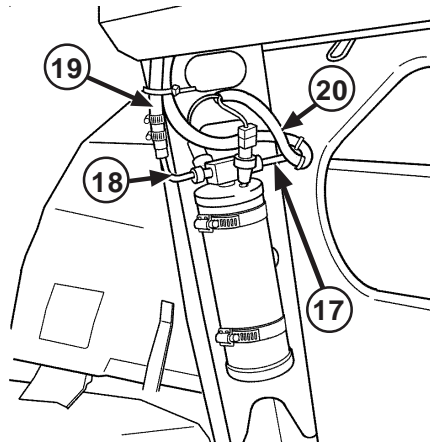


Figure 2-209. Drier Connection

- (13) Connect Drier.
  - a. Lubricate O-ring and install #6 male stainless tube (17) on drier outlet.
  - b. Lubricate O-ring and install #6 female 90° fitting (18) on drier inlet.
  - c. Trim ends of #6 hose (19) to condenser and connect to inlet (female) fitting.
  - d. Trim ends of #6 hose (20) to evaporator and connect to outlet (male) fitting.
  - e. Tighten fittings.

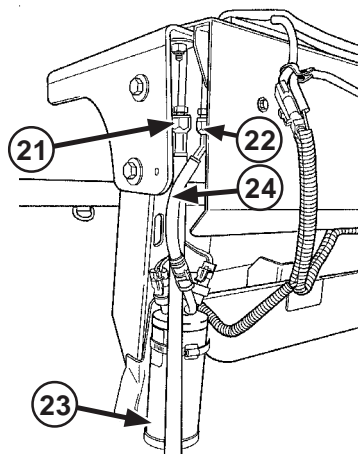
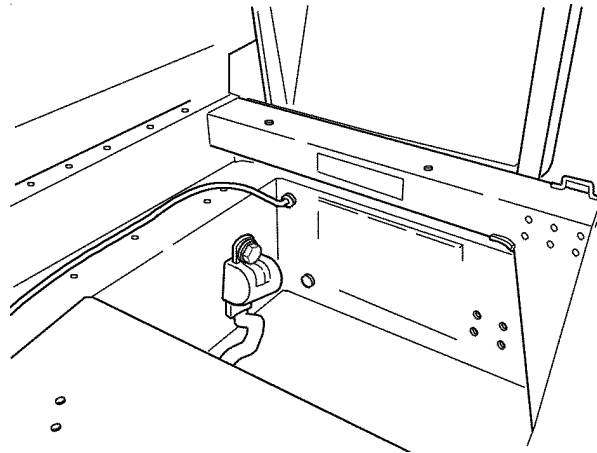


Figure 2-210. Condenser Connection

- (14) Connect Condenser.
  - a. Lubricate O-ring and install #6 female straight fitting (21) to outlet (smaller) fitting on condenser.
  - b. Lubricate O-ring and install #8 female straight fitting (22) to inlet (larger) fitting on condenser.
  - c. Trim ends of #6 hose from drier (23) and connect to right fitting.
  - d. Trim ends of #8 hose from compressor (24) and connect to right fitting.
- (15) Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses



**Figure 2-211. Routing**

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).
- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. Route wires forward along transmission tunnel, then through grommet and into battery box.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

e. Install Electrical Harnesses (Cont'd)

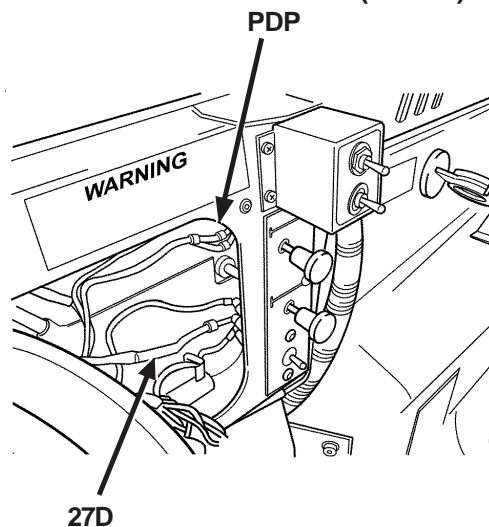
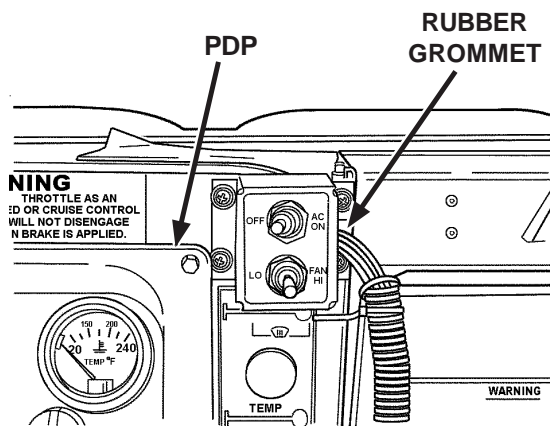


Figure 2-211.1 Electrical Harness Routing (Evaporator) Figure 2-212. Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open (PDP).
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled "27D") supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close (PDP) and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

## 2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

#### NOTE

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

#### (5) Drier.

- Connect extension harness (RD-4-5958-0) to pressure switches on drier.

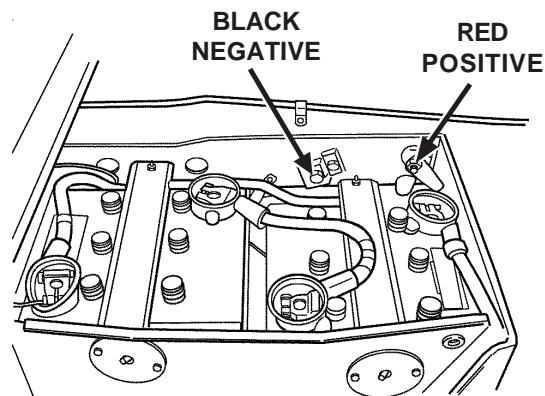


Figure 2-213. Battery Connection

#### (6) Battery Box.

- Attach **RED** wire of power and ground harness to POSITIVE terminal of battery.
- Attach **BLACK** wire of power and ground harness to screw on NEGATIVE ground shunt.
- Connect batteries.
- Check for 24 Volts DC.

### f. Secure and Wrap Hoses and Harnesses

#### CAUTION

- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
- Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
- Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.

- Install around refrigerant lines and compressor harness in engine compartment.
- Secure with nylon ties.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

g. Air Distribution Ducting

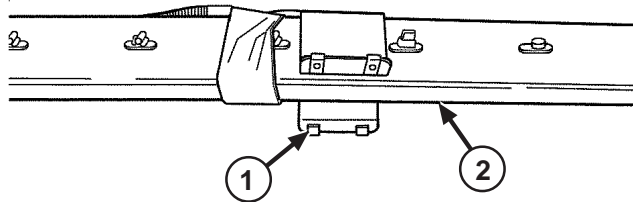


Figure 2-214. Attaching Ducting

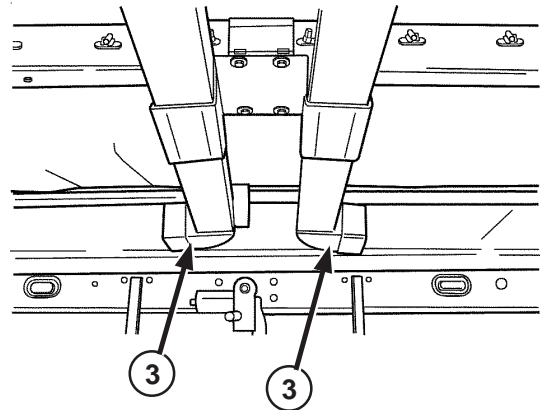


Figure 2-215. 90° Elbows

- (1) Four-door vehicles without ring turret only:
  - a. Attach square ducting to plenum.
  - b. Using support brackets (1), clamp ducting to b-pillar (2).
  - c. Attach 90° elbows (3) to forward end of ducts to turn air toward driver and front passenger.
  - d. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

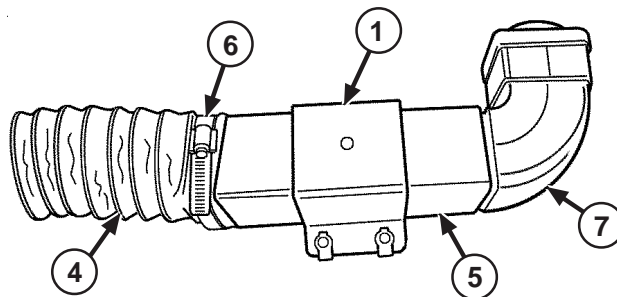


Figure 2-216. Flex Hose/90° Elbows

- (2) Four-door vehicles with ring turret only:
  - a. Pre-bend band clamps and flex hose into 2.5 inch square.
  - b. Attach flex hose (4) to plenum (5) with band clamps (6). Do not overtighten.
  - c. Cut two eight inch sections of square ducting.
  - d. Attach 90° elbows (7) with louvers to one end of each eight inch section.
  - e. Apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.
  - f. Attach flex hose (4) to end of duct.
  - g. Secure duct to clamps with screws.
  - h. Attach ducts with louvers in desired locations with support brackets (1) and screws.

2-1.4 Installation of Air Conditioning Kit to M1025A2 with GSIE Add-on-Armor (Cont'd).

h. Prepare System for Use

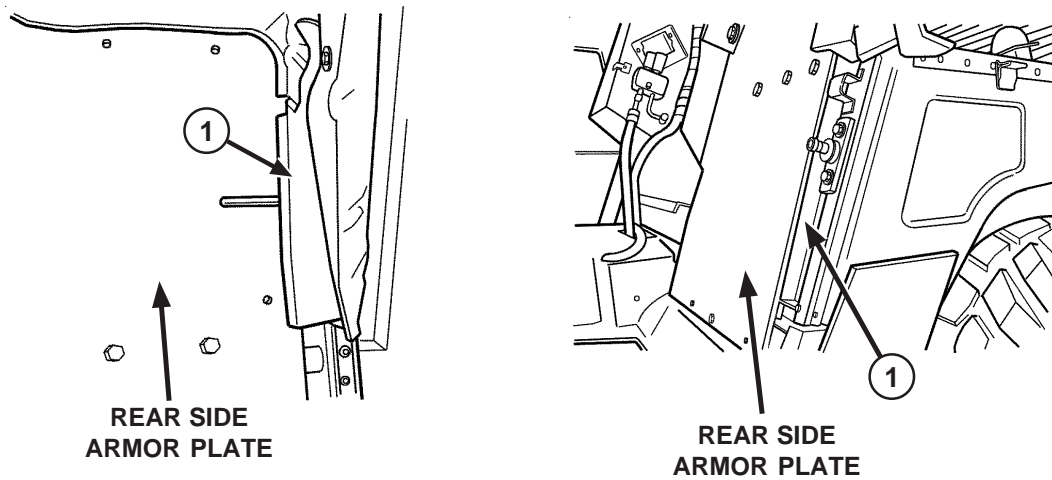


Figure 2-217. Rear Side Armor Plates

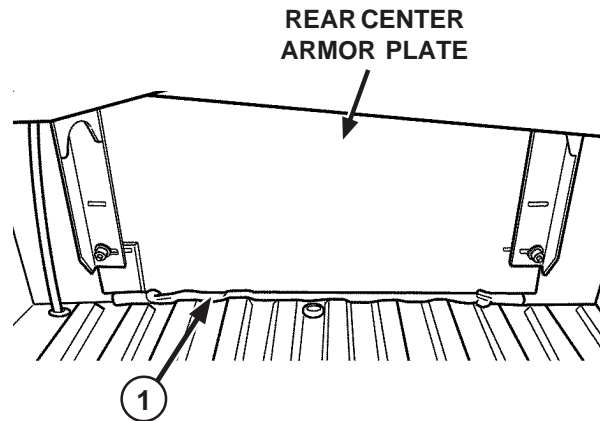


Figure 2-218. Rear Center Armor Plate

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).





## Section II. INSTALLATION OF AIR CONDITIONING KIT TO HMMWV VARIANTS WITH O'GARA HESS ADD-ON-ARMOR

### 2-2 General.

This section describes and illustrates the installation and removal of the Air Conditioning Kit to HMMWV variants with Add-on Armor. Specific repair parts are not covered in the installation instructions. Refer to the Repair Parts List (RPL), Appendix C, for specific repair parts.

There are eight configurations. Each configuration is specific to the variant to which it is applied and the type of Add-on Armor installed on the variant.

#### 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor.

#### **WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

#### **CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

#### **NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnecting/reconnecting battery.
  3. Routing and attaching power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

**2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).**

**a. Install Compressor**

**CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

**NOTE**

- The Compressor Kit is designed to be installed with both four-groove and five-groove water pump pulleys.
- Prior to compressor installation, the four-groove pulley must be changed to a five-groove pulley.
- If a five-groove water pump pulley is already present, skip to “Compressor Mounting.”

(1) With four-groove water pump pulley only:

- a. Rotate radiator fan blade until access holes in fan blade line up with four socket head screws attaching fan clutch to four-groove pulley.
- b. Disconnect fan clutch hose.

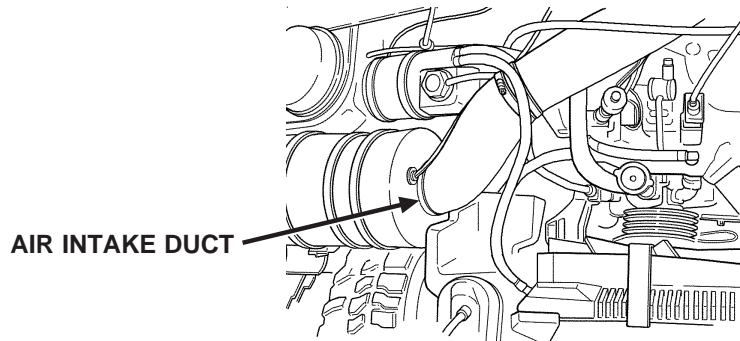
**NOTE**

If belts slip, it may be necessary to remove belts and prevent pulley from turning.

- c. Remove four bolts from fan clutch and pulley.
- d. Remove fan/fan clutch assembly.
- e. Loosen power steering and alternator belts.
- f. Remove four screws from four-groove pulley and water pump hub. Set aside screws for reinstallation.
- g. Remove four-groove pulley.
- h. Install new five-groove pulley with screws removed from four-groove pulley.
- i. Install new A/C compressor belt on front groove of water pump pulley.
- j. Reinstall fan/fan clutch assembly.
- k. Reconnect fan clutch hose.

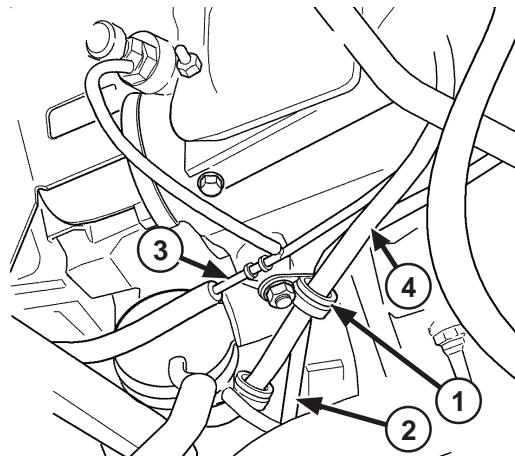
## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-219. Air Intake Duct Removal**

- (2) Compressor Mounting.
  - a. Mark air intake duct at the air filter housing. Remove air intake duct.
  - b. Loosen alternator and power steering pump belts.
  - c. Slip belts off alternator and power steering pump pulleys.
- (3) V-belts: Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install the longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-220. Fuel Lines and Wiring Harness Clamps Removal**

- (4) Remove clamps (1). Attach fuel line (2), fuel return line (3), and wire harness (4) to engine. Set hardware aside for future use.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).

a. Install Compressor (Cont’d)

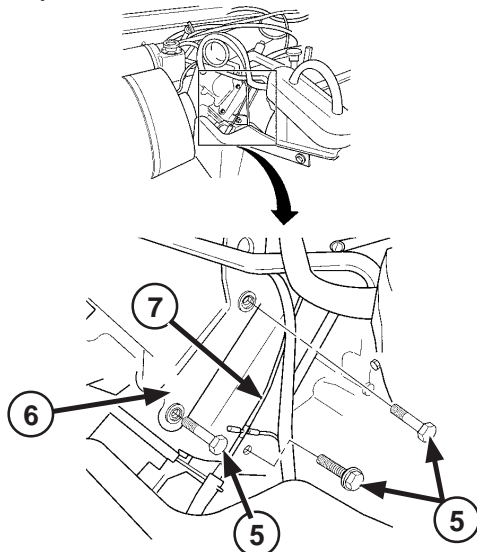


Figure 2-221. Air Intake Duct Support Bracket Removal

- (5) Remove bolts/studs (5), attaching air intake duct support bracket (6) and fuel line clamps to engine.
- (6) Disconnect fuel return hose from fuel return line “T” (7).

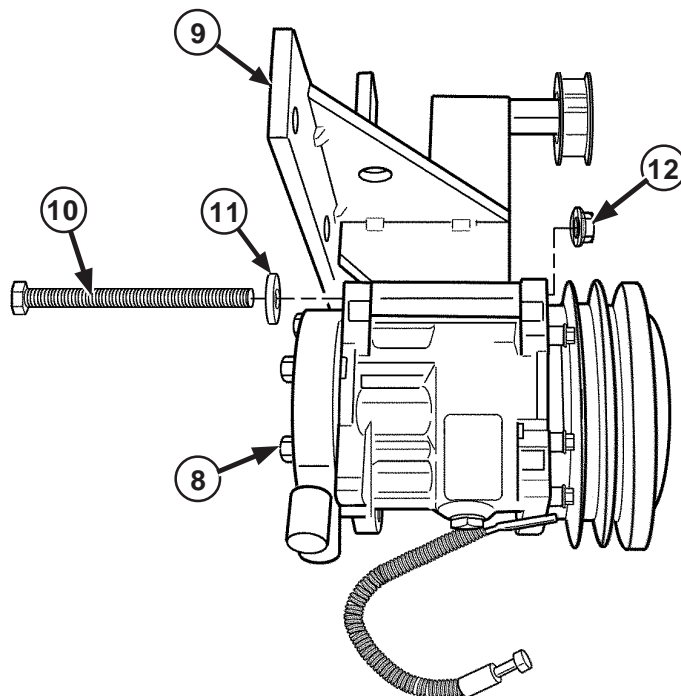


Figure 2-222. Compressor Installation

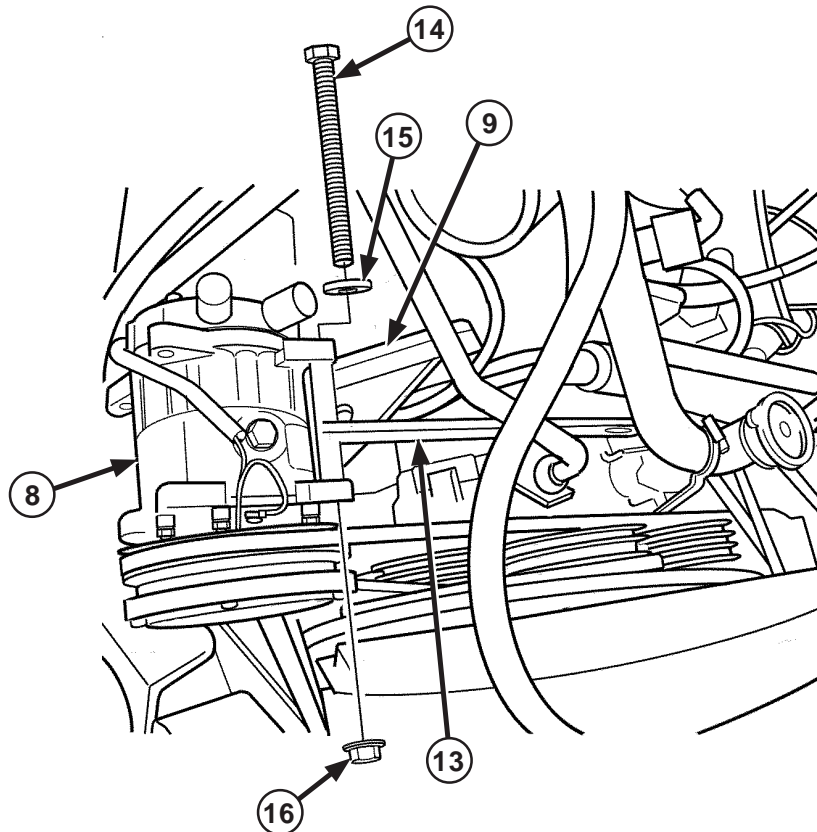
- (7) Position compressor (8) on mounting bracket (9) and secure with bolt (10), washer (11), and locknut (12). Tighten bolt (10) to 18 ft-lbs. Do not overtighten.

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



**Figure 2-223. Compressor Adjusting Arm**

- (8) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (9) Lower mounting bracket (9) and compressor (8) onto mounting location in front left side of engine.
- (10) Position compressor adjusting arm (13) on compressor (8) and secure with bolt (14), washer (15), and locknut (16). Tighten bolt (14) to 18 ft-lbs. Do not overtighten.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).

a. Install Compressor (Cont’d)

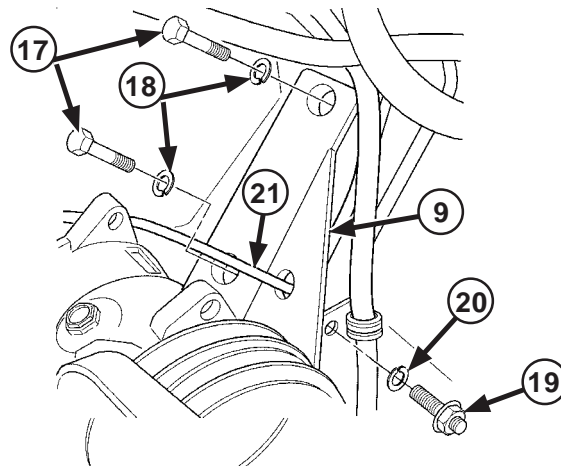


Figure 2-224. Compressor Mounting Bracket to Cylinder Head

- (11) Position lower tab of mounting bracket (9) behind fuel return line and in front of engine.
- (12) Secure mounting bracket (9) upper tabs to cylinder head with two screws (17) and lockwashers (18).
- (13) Secure mounting bracket (9) lower tabs to engine block with stud (19) and lockwasher (20). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (14) Reconnect fuel return hose (21) to fuel return line “T” through hole in mounting bracket (9).
- (15) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.
- (16) Reconnect bolts/studs attaching air intake duct support bracket and fuel line clamps to engine.

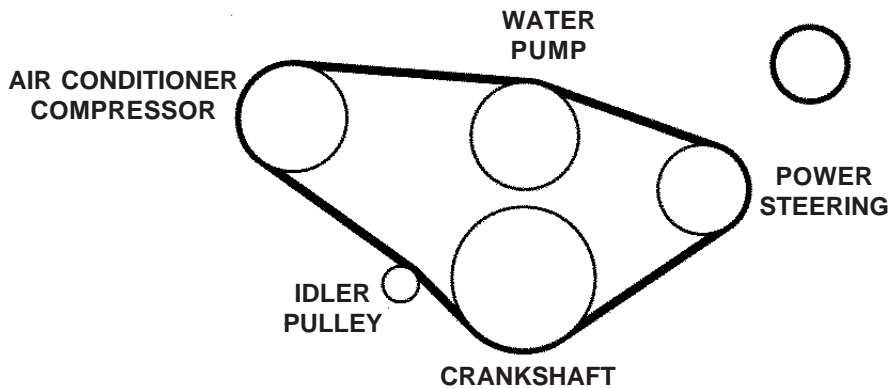


Figure 2-225. A/C Power Steering Belt

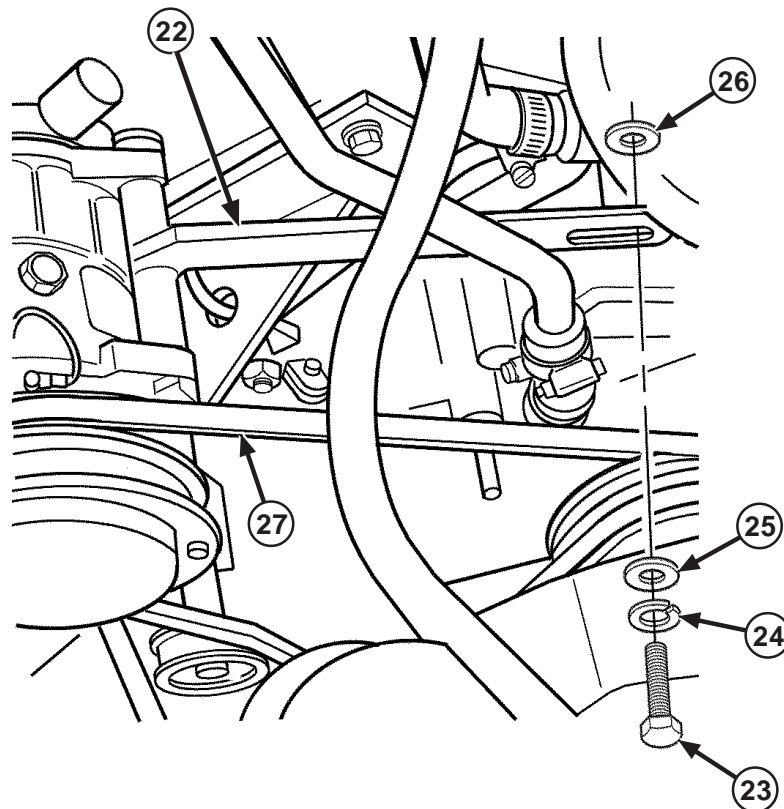
- (17) Install new AC/power steering belt on rear most groove of power steering pump pulley and behind (off the groove) of the crankshaft pulley. Slip new belt over compressor pulley (rear groove), then work belt onto rear groove of crankshaft pulley from underneath vehicle. Do not adjust tension on belt at this time.
- (18) If second belt is to be used for power steering pump, reinstall one original belt on next groove forward. Tension power steering pump belt and tighten pump bolts.

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



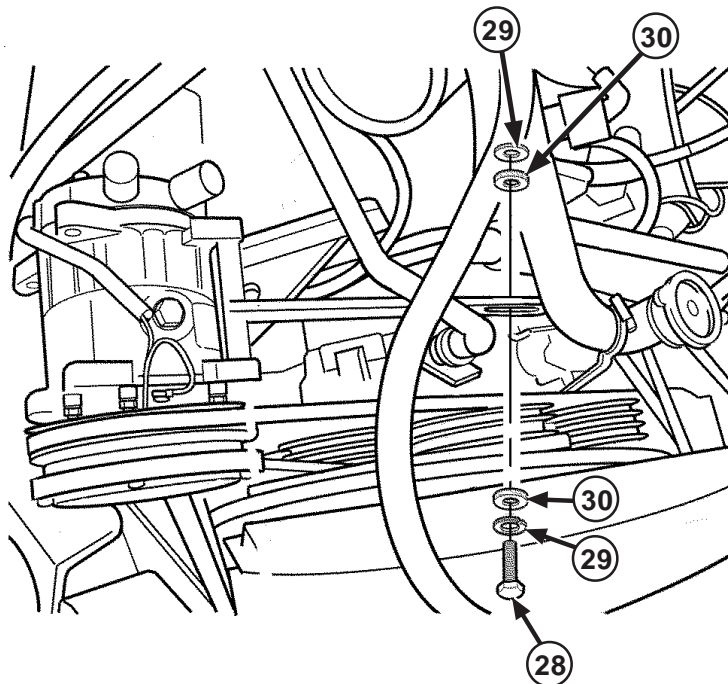
**Figure 2-226. Adjusting Arm Installation**

- (19) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (20) Secure adjusting arm (22) to water pump housing with bolt (23), lockwasher (24), washer (25), adjusting arm (22), and spacer (26).
- (21) Adjust tension on belt (27). Rotate compressor outboard until proper belt tension is reached.

**2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).**

**a. Install Compressor (Cont’d)**

(22) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.



**Figure 2-227. Compressor Adjustment**

(23) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolts (28), and lockwashers (29) attaching lower radiator pipe to vehicle frame. Install two or four spacers (30) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.

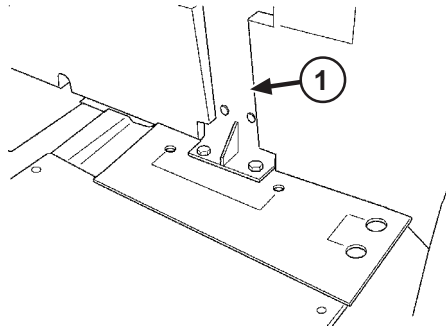
(24) Reinstall alternator belts and adjust belt tension.

(25) Reinstall air intake duct after connecting refrigerant hoses to compressor.



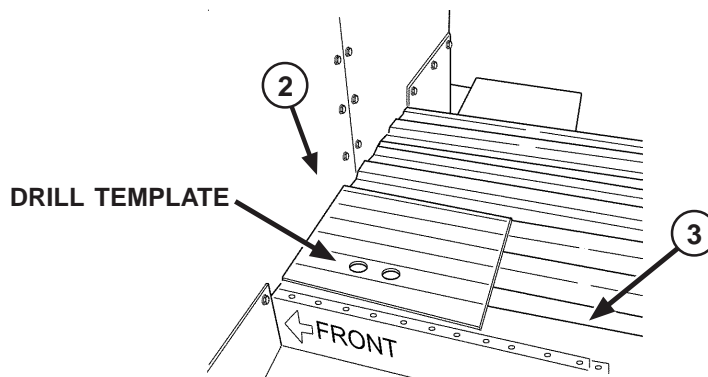
## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser



**Figure 2-228. Angle Bracket**

- (1) Roll rear curtain up and secure.
- (2) Trim or fold evaporator hose drill template as required and place on armor plate angle bracket (1).
- (3) Drill two 11/16 (.688) diameter holes.
- (4) Drill two 1 1/4 inch diameter holes.
- (5) De-burr holes.



**Figure 2-229. Drill Template**

- (6) Trim or fold condenser hose drill template as required and align front of template to rear of armor (2), center holes on rib (3).
- (7) Drill two 1 1/4 inch diameter holes. De-burr holes.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).

b. Install Evaporator and Condenser (Cont’d)

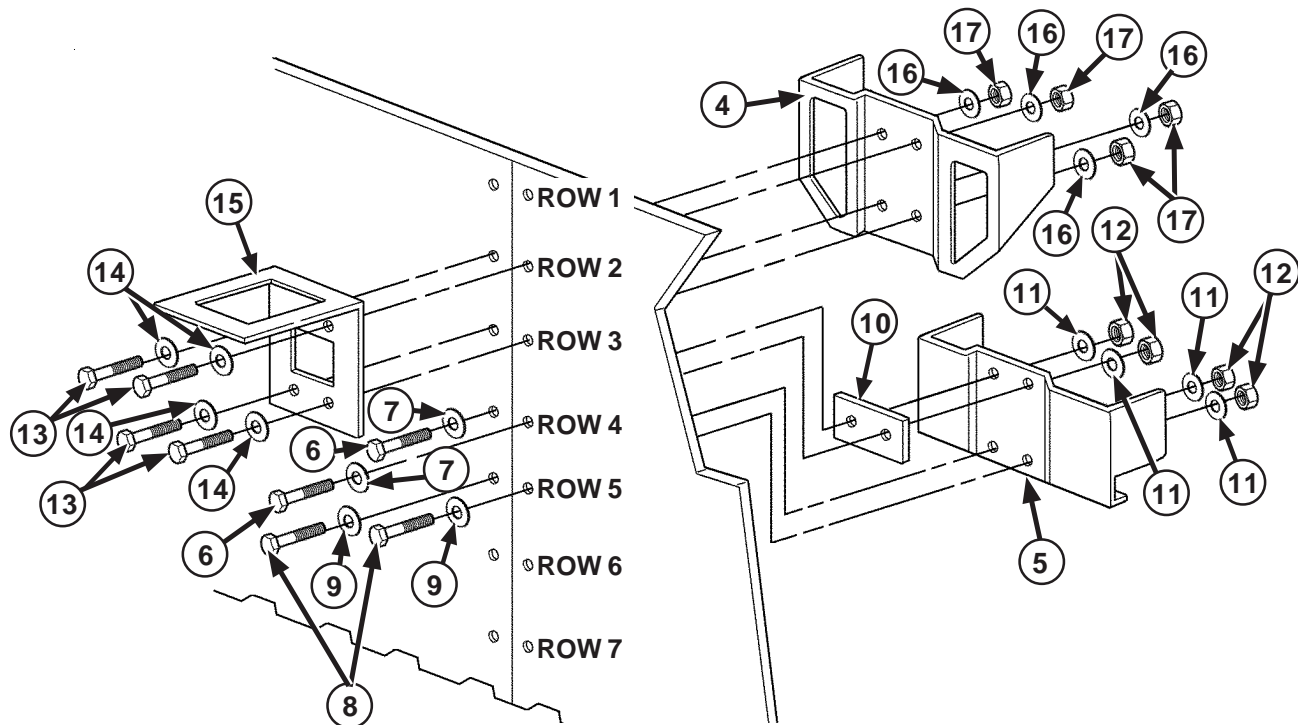
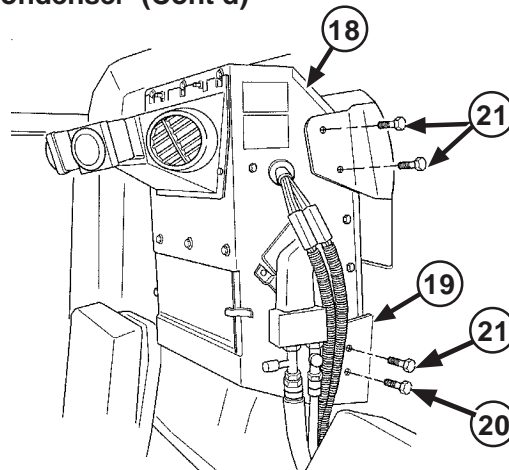


Figure 2-230. Evaporator Brackets

- (8) Position upper evaporator bracket (4) on rear armor plate. Line upper evaporator bracket (4) with Row 2 and Row 3 bolts.
- (9) Using upper evaporator bracket (4) as template, trace and cut insulation foam from bracket area.
- (10) Position lower evaporator bracket (5) on rear armor plate. Line upper evaporator bracket (5) with Row 4 and Row 5 bolts.
- (11) Using bracket (5) as a template, trace and cut insulation foam from bracket area.
- (12) Remove existing bolts from Row 4 and Row 5.
- (13) From rear of armor, install two bolts (6) and washers (7) in Row 4. Install two bolts (8) and washers (9) in Row 5.
- (14) Install shims (10) as required on Row 4.
- (15) Position lower evaporator bracket (5) on Row 4 and Row 5, and secure with washers (11) and locknuts (12).
- (16) Remove existing bolts from Row 2 and Row 3.
- (17) From rear of armor, install four bolts (13), washers (14), and upper condenser bracket (15) in Row 2 and Row 3.
- (18) Position upper evaporator bracket (4) on Row 2 and Row 3, and secure with washers (16) and locknuts (17).

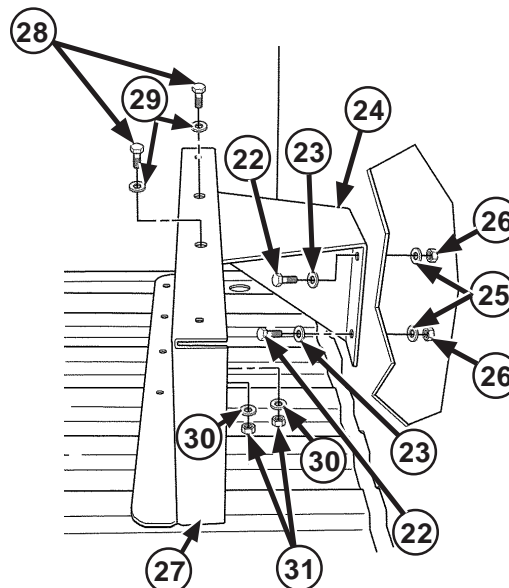
**2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).**

**b. Install Evaporator and Condenser (Cont'd)**



**Figure 2-231. Evaporator Unit**

- (19) Position evaporator unit (18) in lower evaporator bracket (19) and loosely secure to bottom holes with two bolts (20).
- (20) Swing evaporator unit (18) into upright position and loosely secure to remaining upper and lower bracket holes with six bolts (21).



**Figure 2-232. Rear Armor**

- (21) Remove existing bolts from Row 6 and Row 7.
- (22) From rear of armor, install two bolts (22), washers (23), and lower condenser bracket (24) in Row 6 and Row 7, and secure with washers (25) and locknuts (26).
- (23) Position condenser base support bracket (27) on lower condenser bracket (24) and loosely secure to two center holes in lower condenser bracket and base support bracket with two bolts (28), washers (29), washers (30), and locknuts (31).

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

**WARNING**

Use caution when drilling through floor not to damage or drill into the fuel tank. Failure to comply may cause injury or death to personnel or damage to equipment.

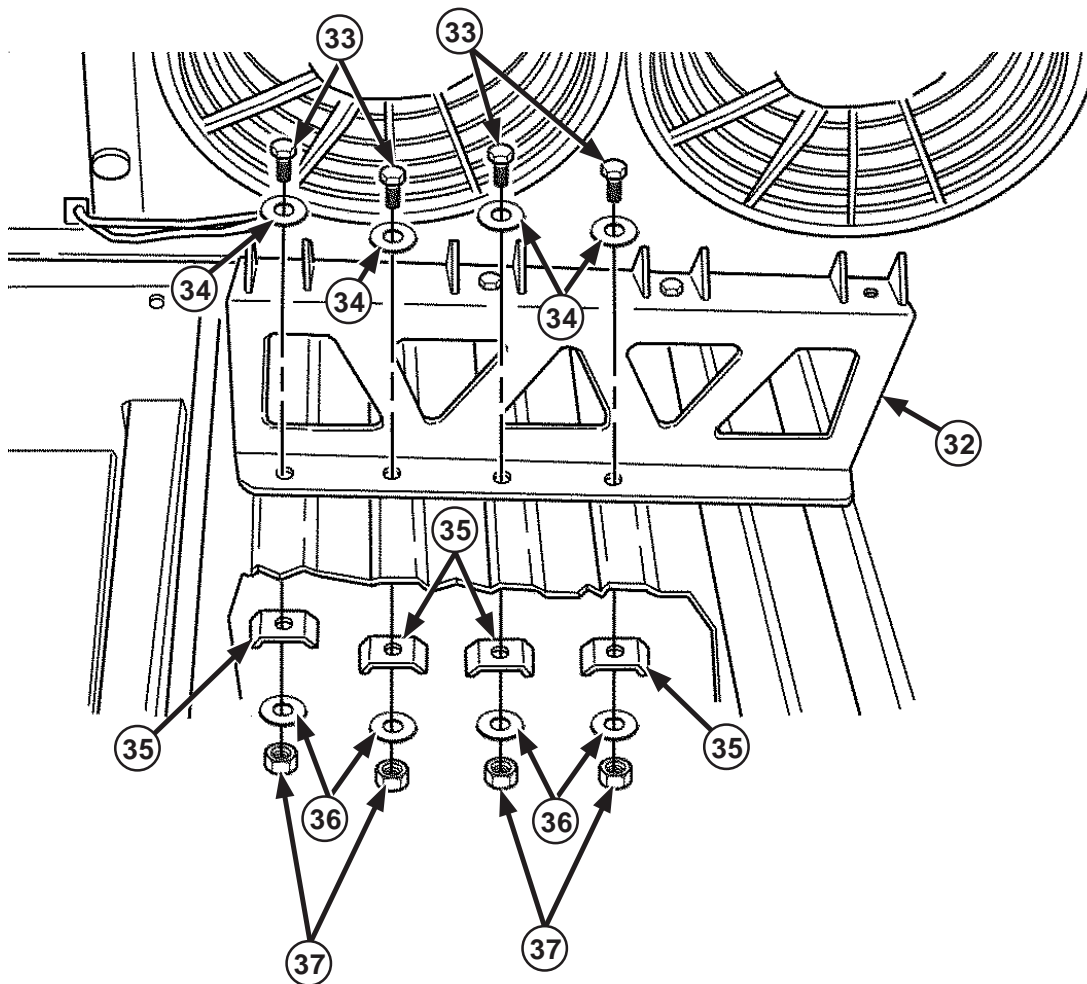


Figure 2-233. Base Support Bracket

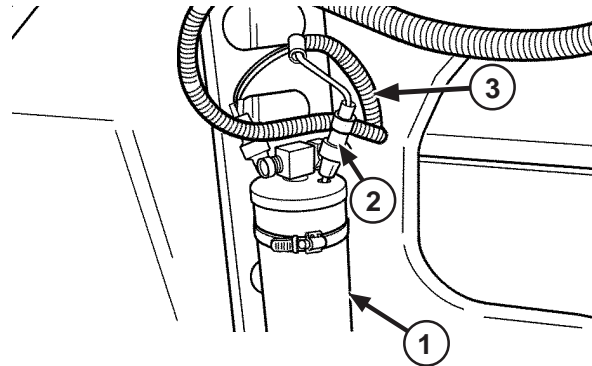
- (24) Square base support bracket (32) to floor.
- (25) Drill four 3/8 inch (.375) diameter holes, using condenser base support bracket as a guide.
- (26) Secure base support bracket (32) to floor with four bolts (33), washers (34), condenser support backing plates (35), washers (36), and locknuts (37). Tighten bolts.

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### c. Install Drier

#### **CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.



**Figure 2-234. Receiver/Drier**

- (1) Remove screw on caps from ports on top of receiver/drier (1).

#### **NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.

#### **NOTE**

For ease of installation, pre-bend end of band clamps prior to inserting in slots on driver's side condenser mount angle.

- (3) Connect condenser harness (3) to pressure switches (2) on receiver/drier (1).

**2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).**

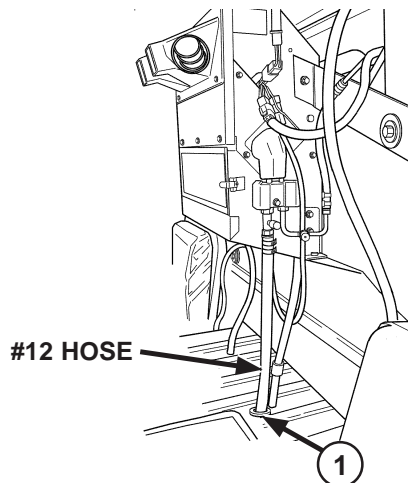
**d. Install Refrigerant Hoses**

**CAUTION**

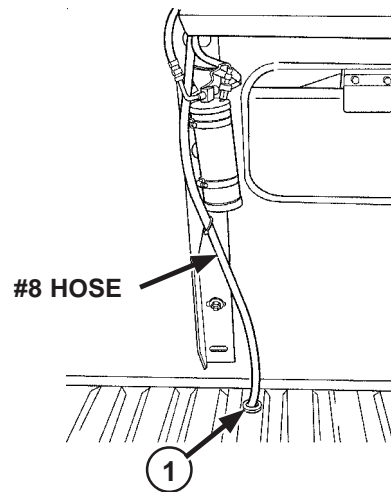
- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioning system. Failure to comply may cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply may result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply may result in damage to equipment.
- Before connecting fittings, check to see that O-rings are present and undamaged. Failure to comply may result in damage to equipment.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses. Failure to comply may result in damage to equipment.

**NOTE**

- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.



**Figure 2-235. #12 Hose**



**Figure 2-236. #8 Hose**

- (1) Trim three grommets to achieve a snug fit around #12 hose.
- (2) Install two grommets (1) in holes drilled in evaporator mounting section (inside vehicle).
- (3) Install one grommet in forward hole drilled in condenser mounting section (outside vehicle).
- (4) Trim one grommet to achieve a snug fit around #8 hose.
- (5) Install grommet (2) in rear hole drilled in condenser mounting section (outside vehicle).

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)

- (6) Compressor to condenser, #8 hose:

Route hose through rear grommet (outside vehicle) and forward along driver's side frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick. Route hose around rear of valve covers to passenger side of engine and forward to compressor. Leave approximately two feet of hose sticking up from grommet.

- (7) Evaporator to compressor, #12 hose:

Route hose through grommet and forward along driver's side frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick. Route hose around rear of valve covers to passenger side of engine and forward to compressor. Leave approximately two feet of hose sticking up from grommet.

### **CAUTION**

- Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply could result in damage to equipment.
- Hoses should span no more than two feet without being secured. Failure to comply could result in damage to equipment.

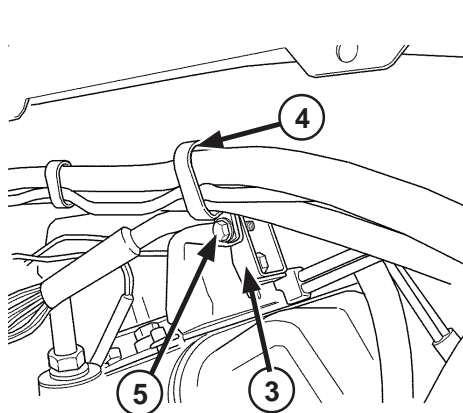


Figure 2-237. Two Angle Brackets

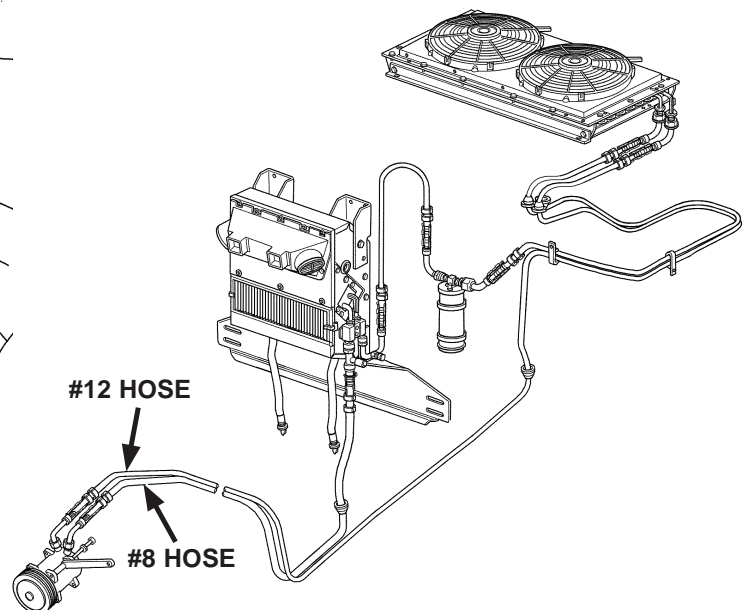
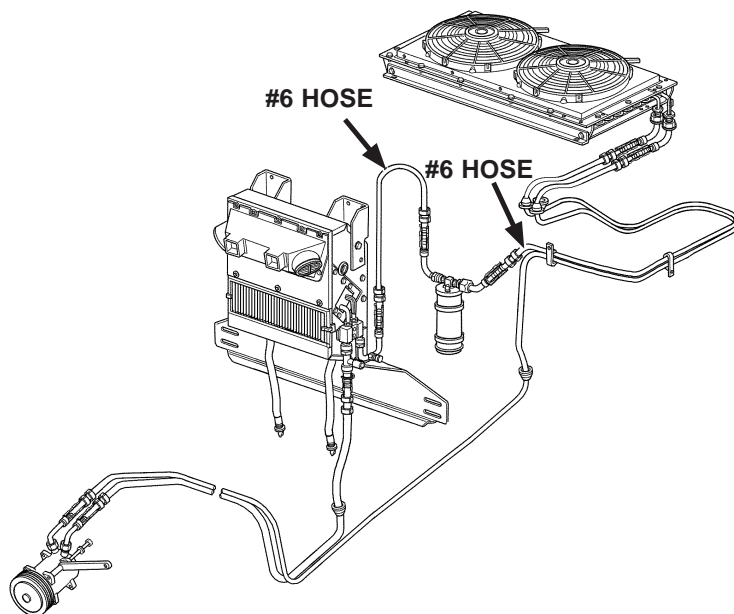


Figure 2-238. Refrigerant Hose Routing (#8 and #12)

- (8) Position two angle brackets (3) on intake manifold studs.
- (9) Loosely attach #8 and #12 hoses to angle brackets (3) with p-clamps (4) and screws (5).
- (10) Tighten p-clamps (4) after routing clutch wire.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).

d. Install Refrigerant Hoses (Cont’d)



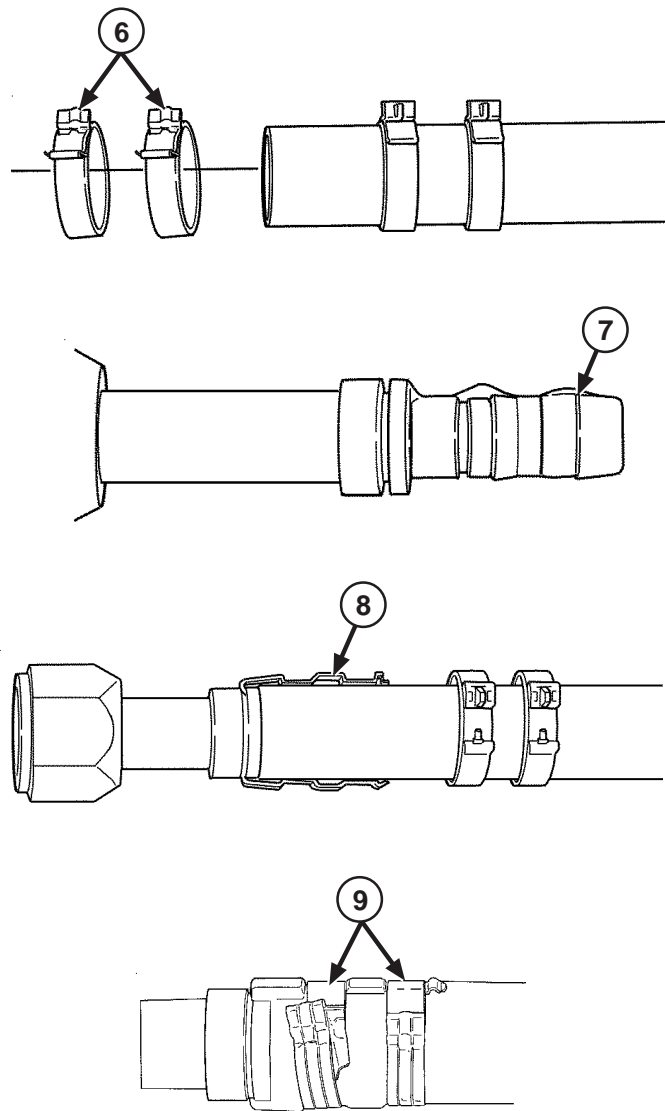
**Figure 2-239. Refrigerant Hose Routing (#6)**

- (11) Evaporator to drier, #6 hose:
  - a. Route #6 hose through rear grommet (inside vehicle), under floor and up through forward grommet (outside vehicle). Leave approximately two feet of hose inside vehicle. Pull remaining hose outside.
- (12) Drier to condenser, #6 hose:
  - a. Route remaining length of #6 hose from inlet (male) fitting on drier up back wall of cab. Secure to #8 hose to condenser.



**2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).**

**d. Install Refrigerant Hoses (Cont'd)**



**Figure 2-240. Refrigerant Hose Preparation**

- (13) Prepare refrigerant hoses for connection:
- Cut hose to proper length. Cut should be square to hose.
  - Slide two clips (6) onto cut end of hose. Both clips should be oriented in same direction.
  - Lubricate connection nipple (7).
  - Insert nipple fully into hose.
  - Snap the cage (8) over the hose and groove on nipple. The cage should rotate in groove.
  - Slide the clips over the cage and into the grooves on nipple.
  - Close the clips. The bump and lock latch (9) alignment must be square.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

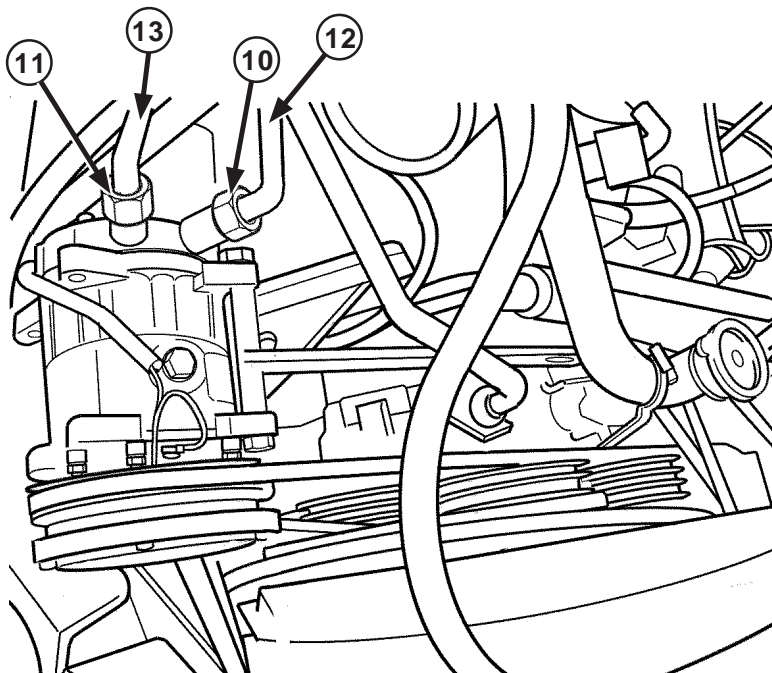
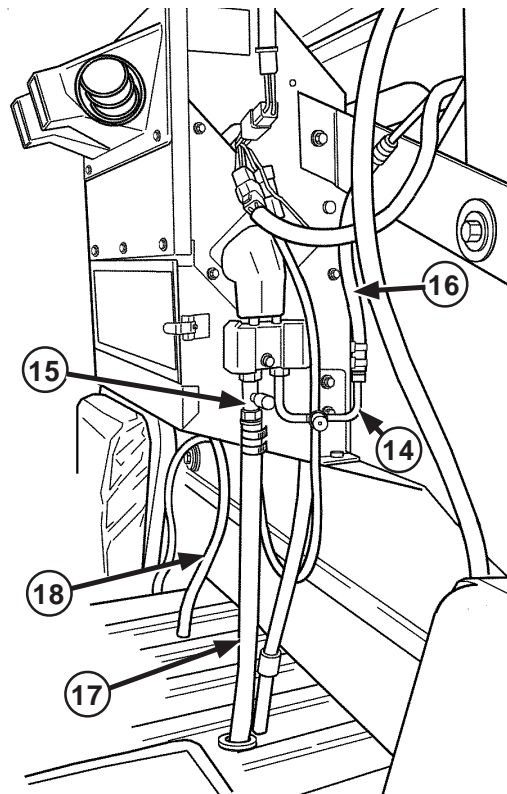


Figure 2-241. Compressor Connection

- (14) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (10) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (11) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (12) and #12 (13) hoses to length and connect to fittings.
  - e. Tighten fittings.

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-242. Evaporator Connection**

- (15) Connect Evaporator.
  - a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (14) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (15) on forward expansion valve connection.
  - d. Trim ends of #6 (16) and #12 (17) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (18) to reach from bottom of evaporator unit to top of transmission tunnel. Install rubber duck bill fittings onto drain hoses.
  - g. Attach drain hoses (18) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.
  - j. Disconnect evaporator unit and roll down rear curtain.
  - k. Cut rear curtain to allow evaporator unit brackets clearance.
  - l. Reinstall evaporator.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

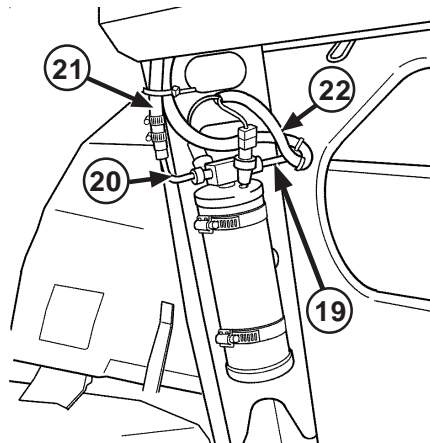


Figure 2-243. Drier Connection

- (16) Connect Drier.
  - a. Lubricate O-ring and install #6 male stainless tube (19) on drier outlet.
  - b. Lubricate O-ring and install #6 female 90° fitting (20) on drier inlet.
  - c. Trim ends of #6 hose (21) to condenser and connect to inlet (female) fitting.
  - d. Trim ends of #6 hose (22) to evaporator and connect to outlet (male) fitting.
  - e. Tighten fittings.

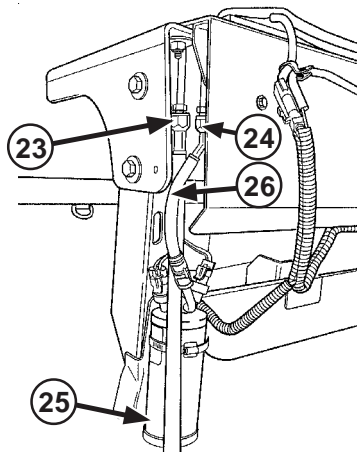
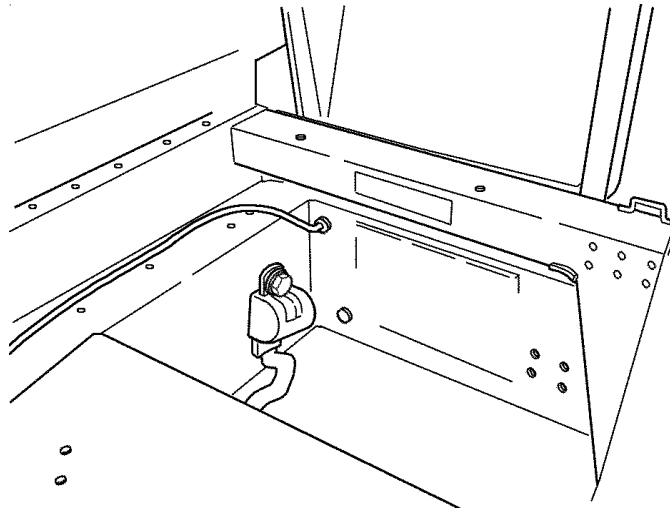


Figure 2-244. Condenser Connection

- (17) Connect Condenser.
  - a. Lubricate O-ring and install #6 female straight fitting (23) to outlet (smaller) fitting on condenser.
  - b. Lubricate O-ring and install #8 female straight fitting (24) to inlet (larger) fitting on condenser.
  - c. Trim ends of #6 hose from drier (25) and connect to right fitting.
  - d. Trim ends of #8 hose from compressor (26) and connect to right fitting.
  - e. Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses



**Figure 2-245. Routing**

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).
- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. Route wires forward along transmission tunnel, then through grommet and into battery box.

2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).

e. Install Electrical Harnesses (Cont’d)

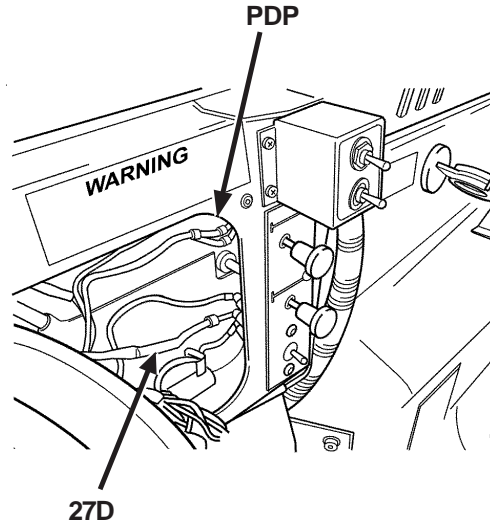
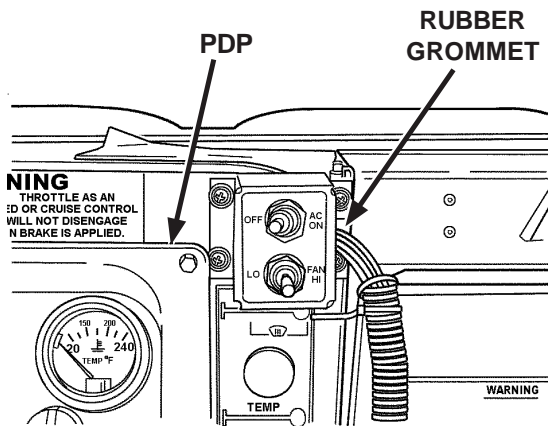


Figure 2-245.1 Electrical Harness Routing (Evaporator) Figure 2-246. Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open (PDP).
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled “27D”) supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close (PDP) and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

## 2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

#### NOTE

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

#### (5) Drier.

- Connect extension harness (RD-4-5958-0) to pressure switches on drier.

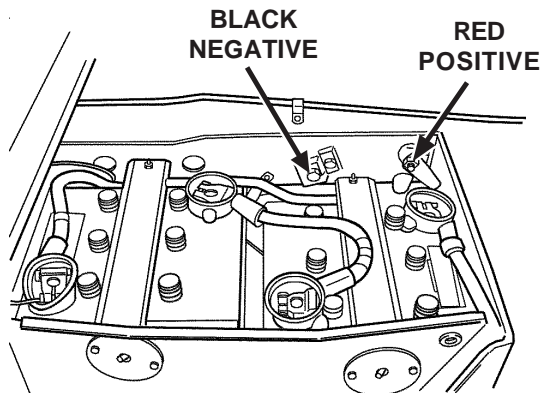


Figure 2-247. Battery Connection

#### (6) Battery Box.

- Attach **RED** wire of power and ground harness to POSITIVE terminal of battery.
- Attach **BLACK** wire of power and ground harness to screw on NEGATIVE ground shunt.
- Connect batteries.
- Check for 24 Volts DC.

### f. Secure and Wrap Hoses and Harnesses

#### CAUTION

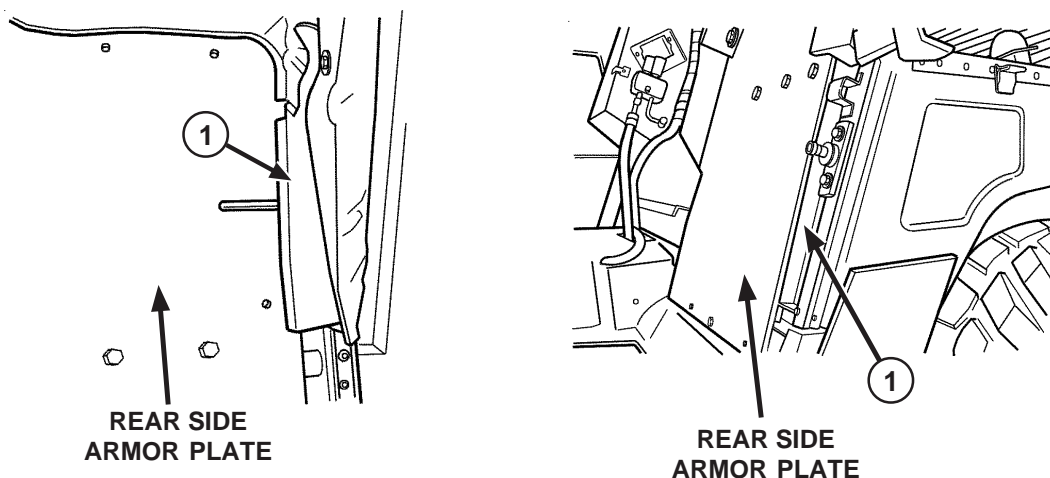
- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
  - Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
  - Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.
- Install around refrigerant lines and compressor harness in engine compartment.
  - Secure with nylon ties.

**2-2.1 Installation of Air Conditioning Kit to M998 and M998A1; M1037; M1097 and M1097A1 Two-Door with O’Gara Hess Add-on-Armor (Cont’d).**

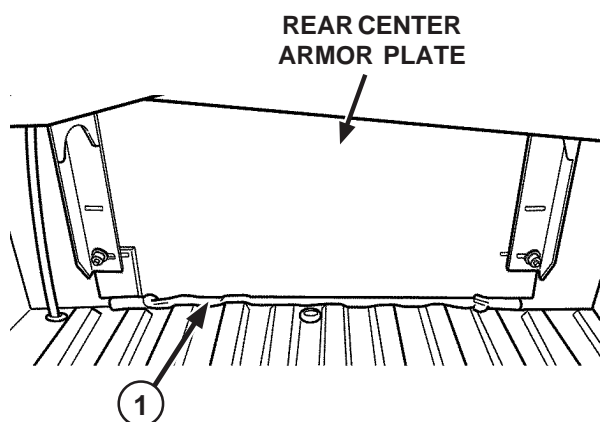
**g. Air Distribution Ducting**

- (1) Cut off male end of 90° elbows so the elbows fit over the square outlets on the plastic plenum.
- (2) Attach 90° elbows to plenum.
- (3) When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

**h. Prepare System for Use**



*Figure 2-248. Rear Side Armor Plates*



*Figure 2-249. Rear Center Armor Plate*

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).



## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor.

### **WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

### **CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

### **NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnecting/reconnecting battery.
  3. Routing and attaching power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

**2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).**

**a. Install Compressor**

**CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

**NOTE**

- The Compressor Kit is designed to be installed with both four-groove and five-groove water pump pulleys.
  - Prior to compressor installation, the four-groove pulley must be changed to a five-groove pulley.
  - If a five-groove water pump pulley is already present, skip to "Compressor Mounting."
- (1) With four-groove water pump pulley only:
- a. Rotate radiator fan blade until access holes in fan blade line up with four socket head screws attaching fan clutch to four-groove pulley.
  - b. Disconnect fan clutch hose.

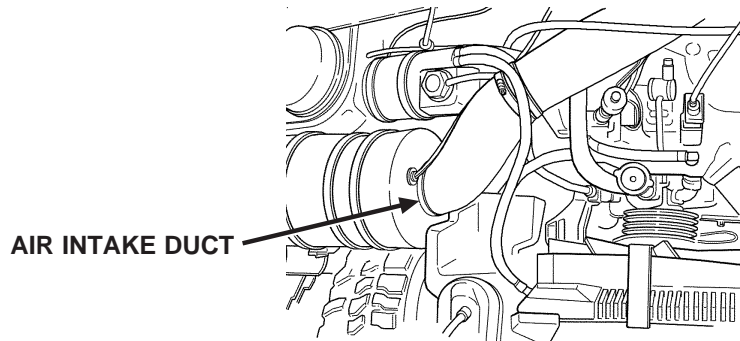
**NOTE**

If belts slip, it may be necessary to remove belts and prevent pulley from turning.

- c. Remove four bolts from fan clutch and pulley.
- d. Remove fan/fan clutch assembly.
- e. Loosen power steering and alternator belts.
- f. Remove four screws from four-groove pulley and water pump hub. Set aside screws for reinstallation.
- g. Remove four-groove pulley.
- h. Install new five-groove pulley with screws removed from four-groove pulley.
- i. Install new A/C compressor belt on front groove of water pump pulley.
- j. Reinstall fan/fan clutch assembly.
- k. Reconnect fan clutch hose.

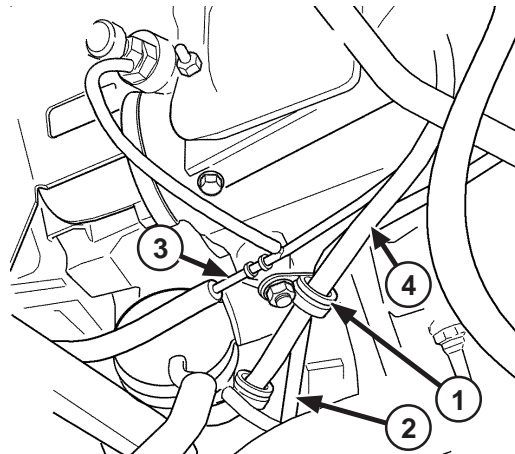
## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)



**Figure 2-250. Air Intake Duct Removal**

- (2) Compressor Mounting.
  - a. Mark air intake duct at the air filter housing. Remove air intake duct.
  - b. Loosen alternator and power steering pump belts.
  - c. Slip belts off alternator and power steering pump pulleys.
  
- (3) V-belts: Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install the longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-251. Fuel Lines and Wiring Harness Clamps Removal**

- (4) Remove clamps (1). Attach fuel line (2), fuel return line (3), and wire harness (4) to engine. Set hardware aside for future use.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

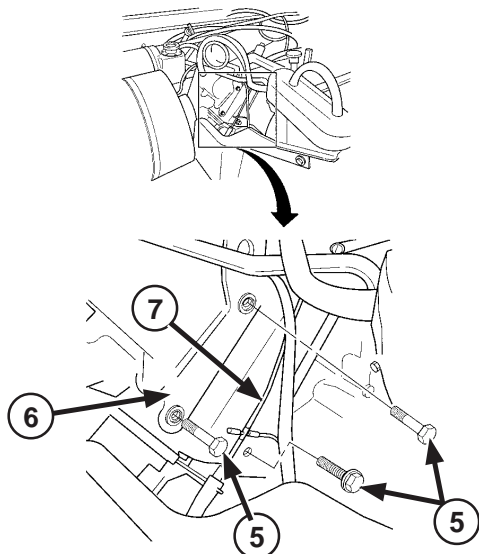


Figure 2-252. Air Intake Duct Support Bracket Removal

- (5) Remove bolts/studs (5), attaching air intake duct support bracket (6) and fuel line clamps to engine.
- (6) Disconnect fuel return hose from fuel return line "T" (7).

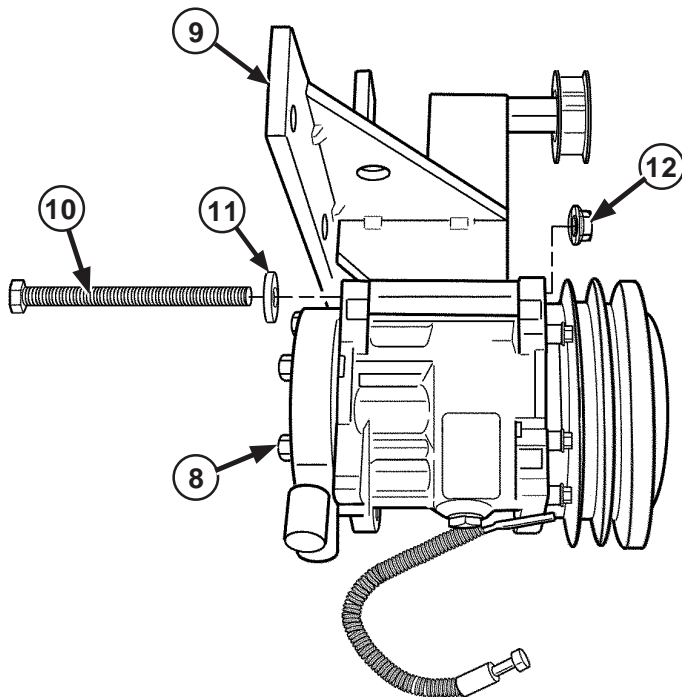


Figure 2-253. Compressor Installation

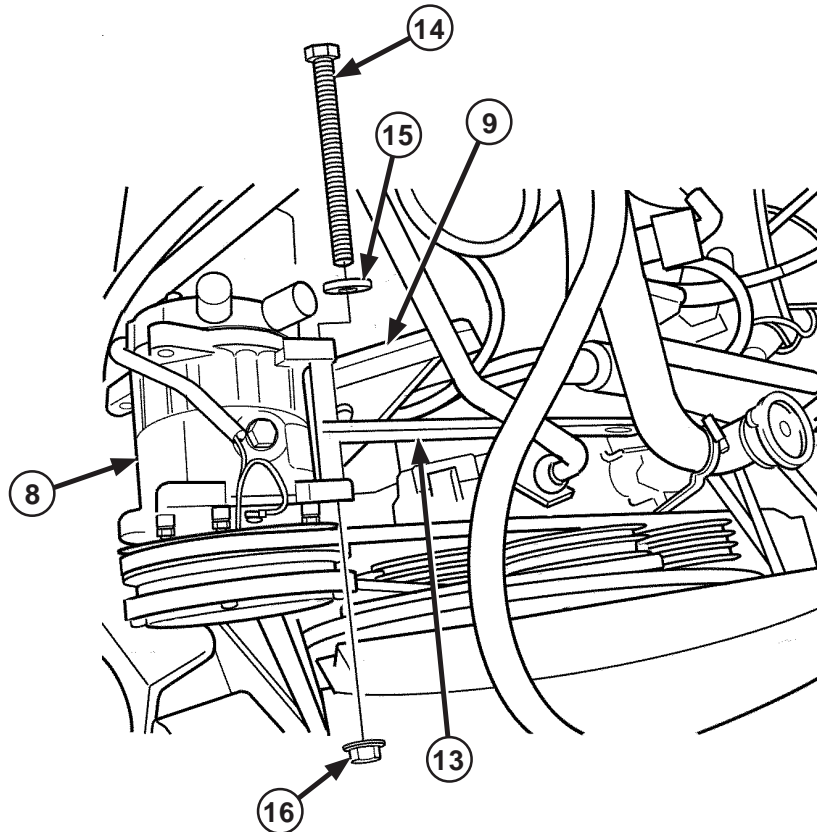
- (7) Position compressor (8) on mounting bracket (9) and secure with bolt (10), washer (11), and locknut (12). Tighten bolt (10) to 18 ft-lbs. Do not overtighten.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



**Figure 2-254. Compressor Adjusting Arm**

- (8) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (9) Lower mounting bracket (9) and compressor (8) onto mounting location in front left side of engine.
- (10) Position compressor adjusting arm (13) on compressor (8) and secure with bolt (14), washer (15), and locknut (16). Tighten bolt (14) to 18 ft-lbs. Do not overtighten.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

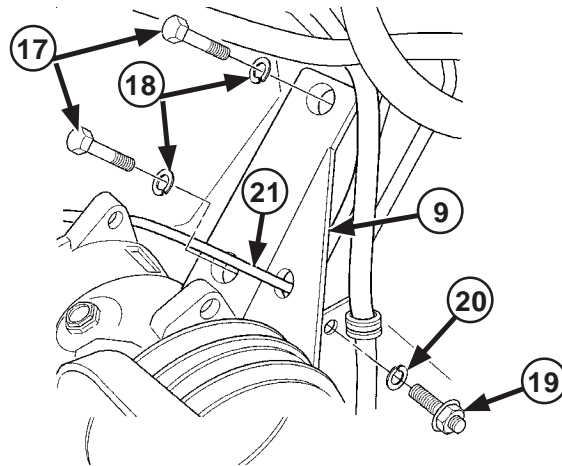


Figure 2-255. Compressor Mounting Bracket to Cylinder Head

- (11) Position lower tab of mounting bracket (9) behind fuel return line and in front of engine.
- (12) Secure mounting bracket (9) upper tabs to cylinder head with two bolts (17) and lockwashers (18).
- (13) Secure mounting bracket (9) lower tabs to engine block with stud (19) and lockwasher (20). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (14) Reconnect fuel return hose (21) to fuel return line "T" through hole in mounting bracket (9).
- (15) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.
- (16) Reconnect bolts/studs attaching air intake duct support bracket and fuel line clamps to engine.

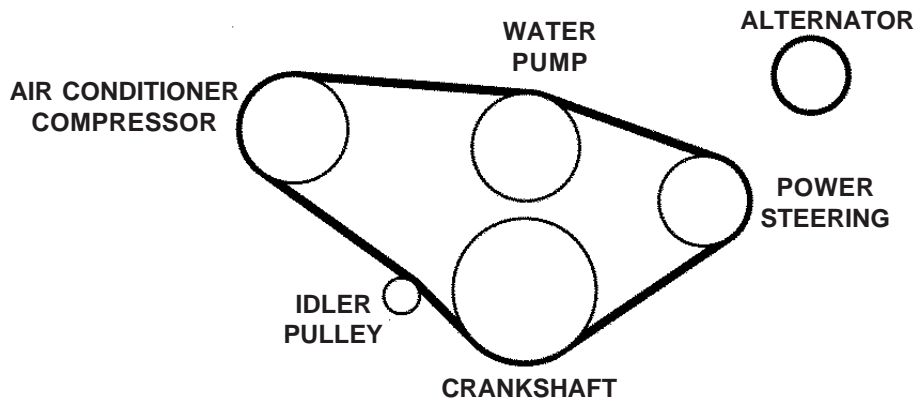


Figure 2-256. A/C Power Steering Belt

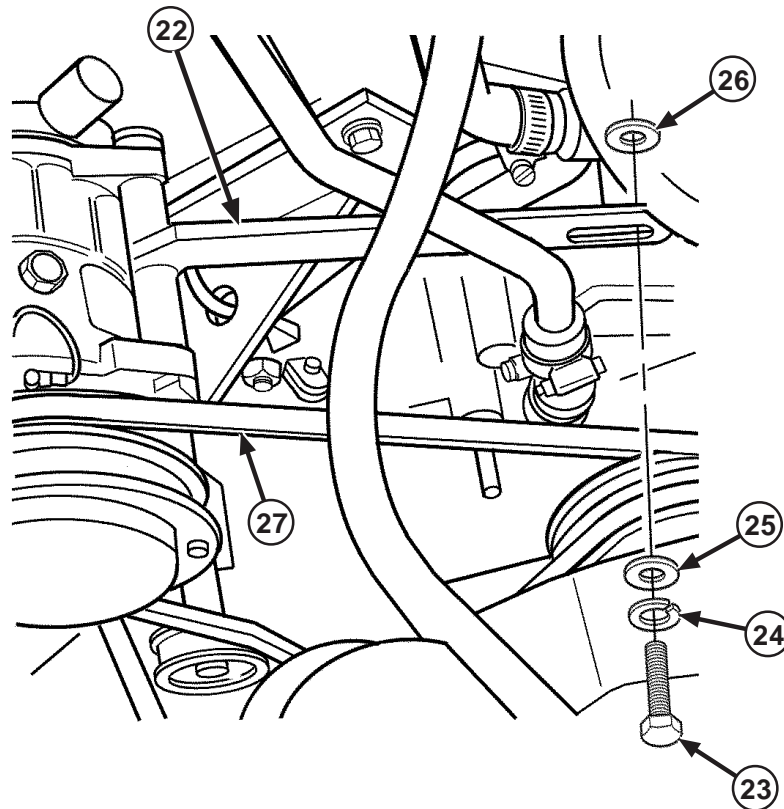
- (17) Install new AC/power steering belt on rear most groove of power steering pump pulley and behind (off the groove) of the crankshaft pulley. Slip new belt over compressor pulley (rear groove), then work belt onto rear groove of crankshaft pulley from underneath vehicle. Do not adjust tension on belt at this time.
- (18) If second belt is to be used for power steering pump, reinstall one original belt on next groove forward. Tension power steering pump belt and tighten pump bolts.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.



**Figure 2-257. Adjusting Arm Installation**

- (19) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (20) Secure adjusting arm (22) to water pump housing with bolt (23), lockwasher (24), washer (25), adjusting arm (22), and spacer (26).
- (21) Adjust tension on belt (27). Rotate compressor outboard until proper belt tension is reached.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

(22) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.

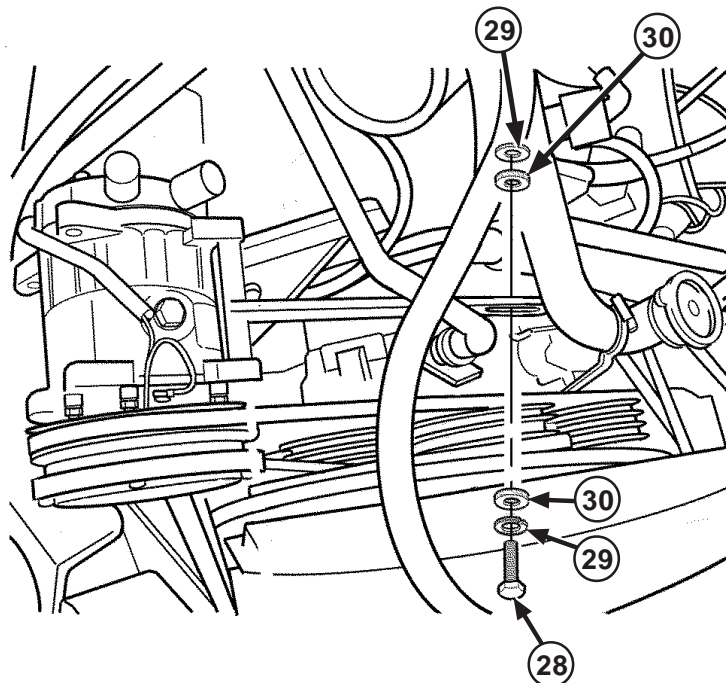


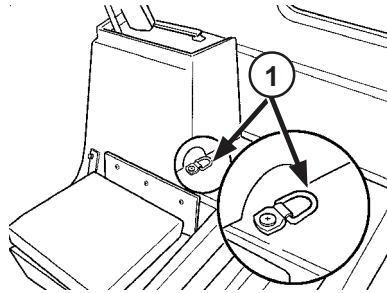
Figure 2-258. Compressor Adjustment

- (23) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolt (28), and lockwashers (29) attaching lower radiator pipe to vehicle frame. Install two or four spacers (30) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.
- (24) Reinstall alternator belts and adjust belt tension.
- (25) Reinstall air intake duct after connecting refrigerant hoses to compressor.



## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser

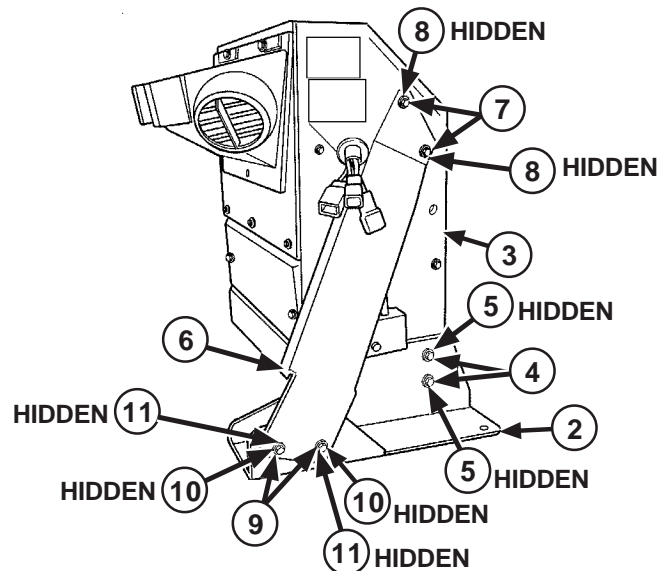


**Figure 2-259. D-Ring**

- (1) Remove D-ring (1) located near passenger side seat on top of transmission tunnel.
- (2) Remove top screws attaching driver's side mats to transmission tunnel.
- (3) Position evaporator drill template on transmission tunnel. Center on D-ring hole and align the driver's side of the template parallel to the ribs on the transmission tunnel.

### **WARNING**

When drilling through floor, use caution not to damage or drill into the fuel tank. Failure to comply may cause damage to equipment and/or injury to personnel.

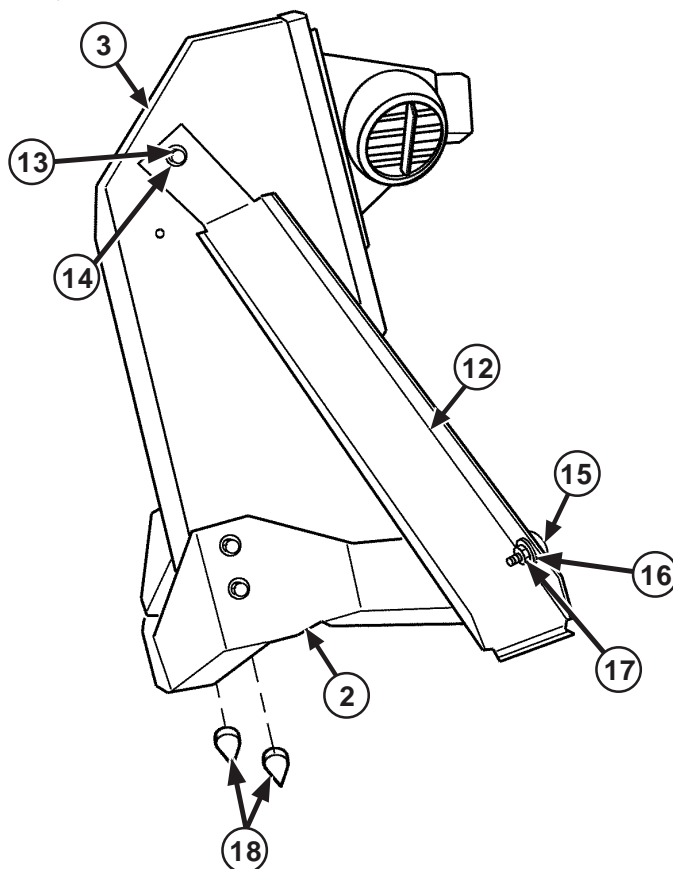


**Figure 2-260. Evaporator Brackets**

- (4) Using template as a guide, drill three 7/16 inch (.437) diameter holes. De-burr holes.
- (5) Position hose routing template on driver's side fender well. Align the template to the upper front corner of the fender well.
- (6) Using template as a guide, drill four 1 1/4 inch (1.25) diameter holes and de-burr.
- (7) Position evaporator brackets (2) on evaporator unit (3) and secure with four bolts (4) and washers (5). Align bottom of brackets to bottom of unit and tighten bolts.
- (8) Position vertical driver's side evaporator bracket (6) on evaporator unit (3) and evaporator bracket (2) and secure with two screws (7) and washers (8) on top of bracket and two screws (9), four washers (10), and two locknuts (11) on bottom of bracket.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

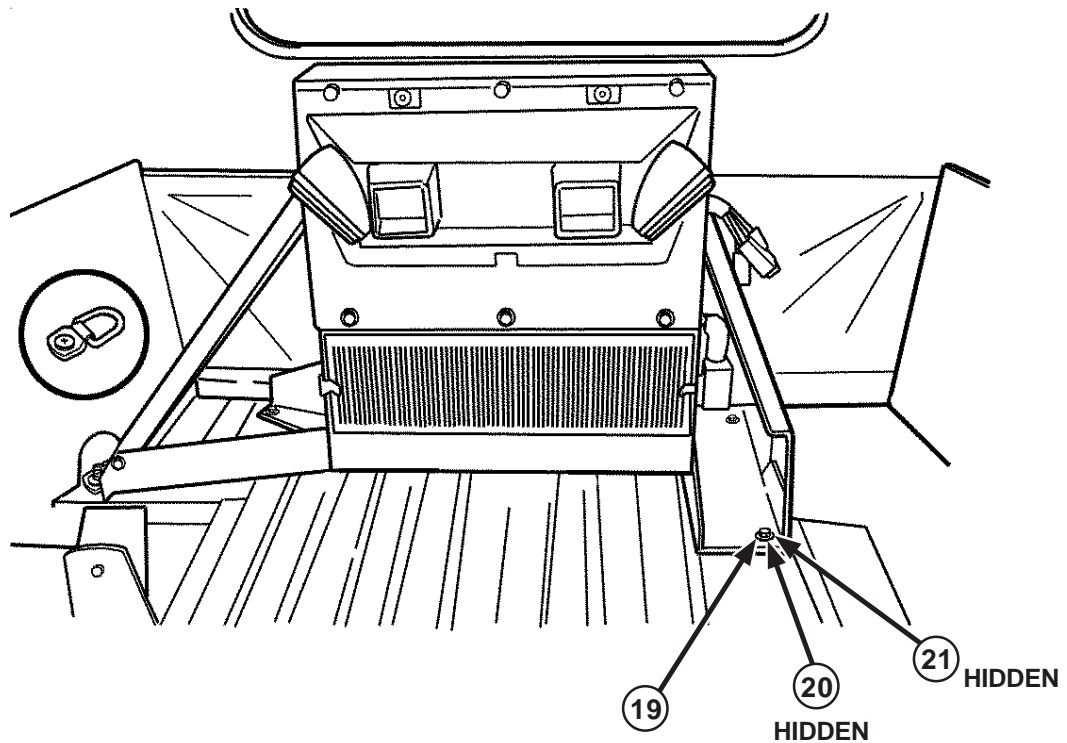


**Figure 2-261. Evaporator Bracket (Passenger Side)**

- (9) Position vertical passenger's side evaporator bracket (12) on evaporator unit (3) and evaporator bracket (2), and secure with screw (13) and washer (14) on top of bracket and screw (15), two washers (16), and locknut (17) on bottom of bracket.
- (10) Install duckbills (18) on drain nipples on bottom of evaporator unit.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



*Figure 2-262. Evaporator Unit*

- (11) Position evaporator unit in vehicle and align holes in evaporator brackets over drilled holes in transmission tunnel. Align hole in passenger side vertical evaporator bracket with hole where D-ring was removed. Align drain tubes with duck bills with 1 1/4 inch (1.25) diameter holes.
- (12) Secure unit through floor with three screws (19), six washers (20), and three locknuts (21). Secure passenger side vertical evaporator bracket with previously removed bolt and D-ring.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

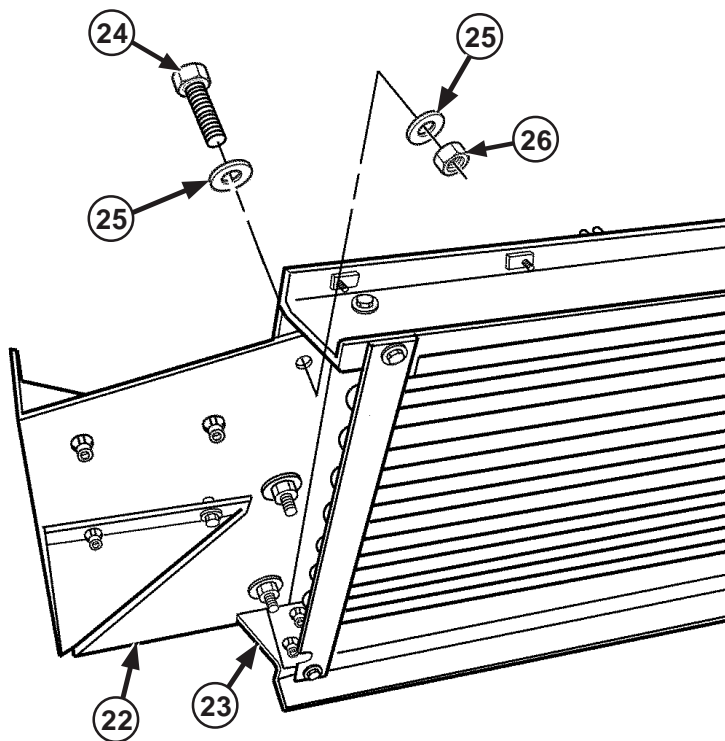


Figure 2-263. Core Support Bracket

- (13) Position passenger side core support bracket (22) with the notch (23) on the bracket at the bottom on back side of the condenser flange, and secure with three bolts (24), six washers (25), and three locknuts (26).

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)

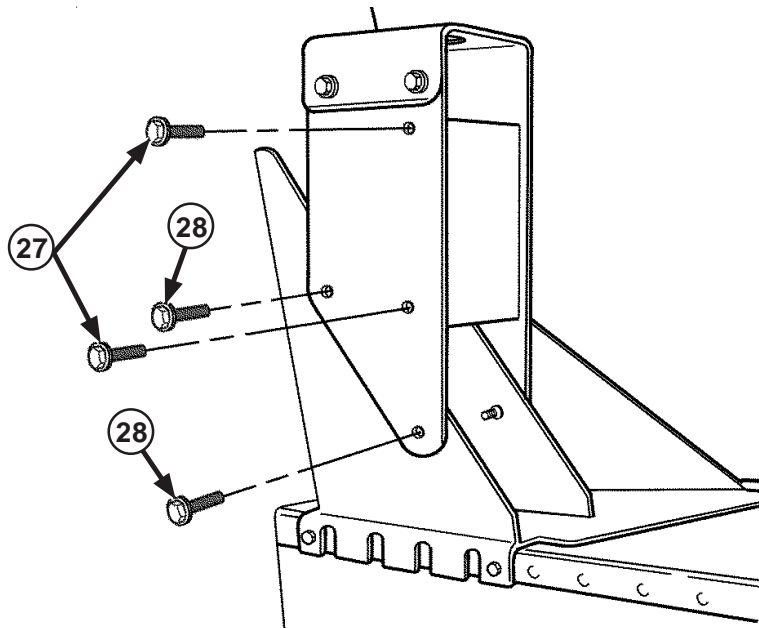


Figure 2-264. Antenna Mount

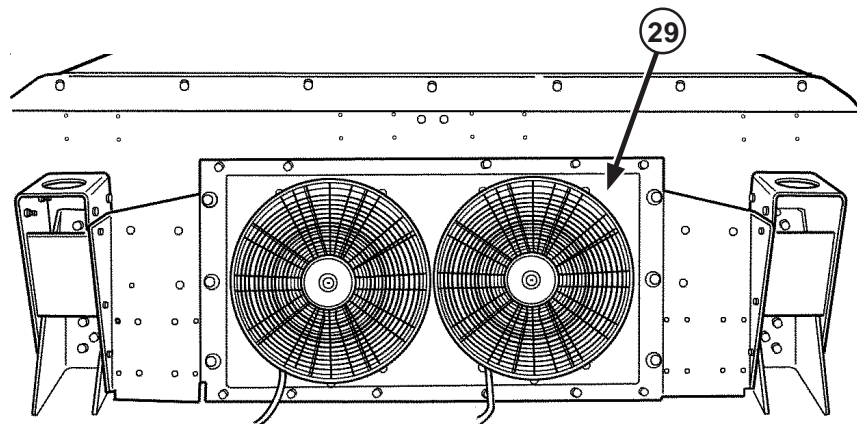


Figure 2-265. Condenser

- (14) Remove two bolts (27) and two bolts (28) from each antenna mount.
- (15) Position condenser (29) with fans facing the rear, between antenna mounts and secure with previously removed bolts (27) and bolts (28). Tighten driver's side bolts first, then passenger's side.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

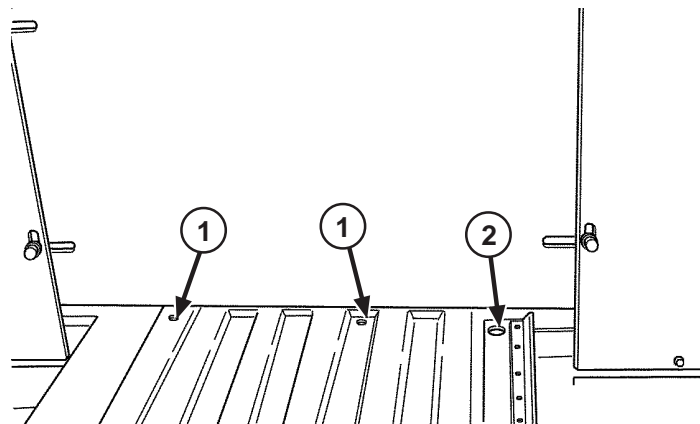


Figure 2-266. Transmission Tunnel Holes

- (16) If present, remove plywood panel from between seats on top of transmission tunnel.
- (17) Remove top screws from driver's side mats and transmission tunnel.
- (18) Position drill template, found in Installation Kit, on transmission tunnel and tape into position. Drill two 11/16 inch (.6875 inch) holes (1) and one 1 1/4 inch (1.25 inch) hole (2) as shown on side of transmission tunnel.
- (19) De-burr panel.

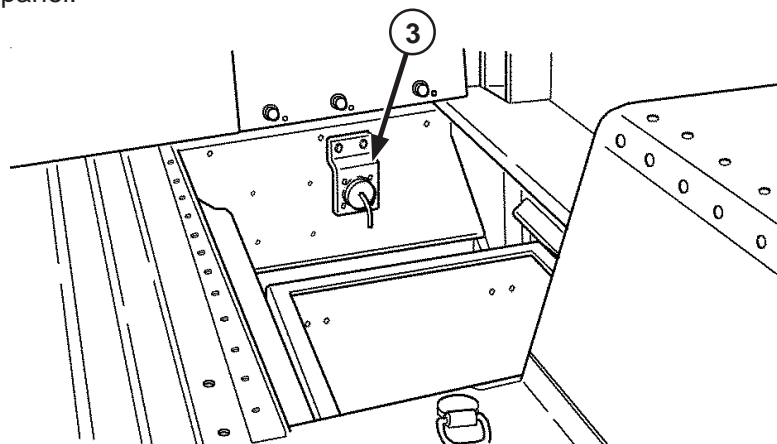
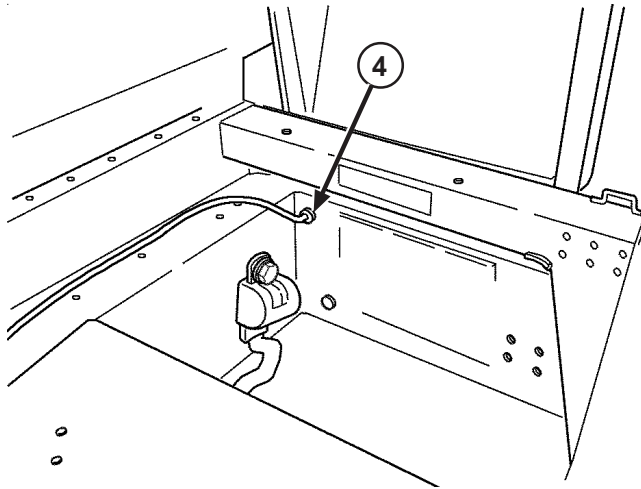


Figure 2-267. Auxiliary Power Panel

- (20) Remove front passenger seat to expose battery box.
- (21) Remove either auxiliary power panel (3) or batteries to gain access to drill hole in battery box.

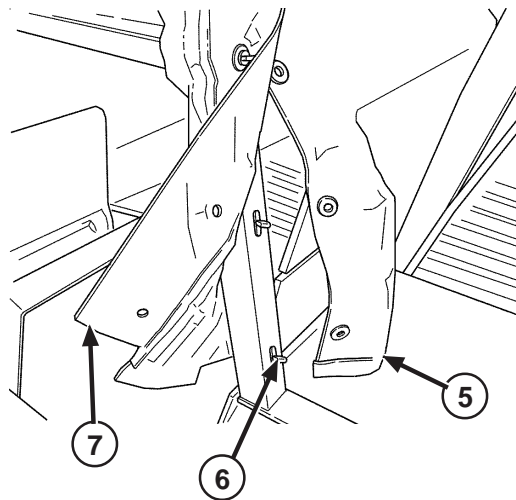
## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-268. Battery Box Panel Hole**

- (22) Drill 3/4 inch hole in rear battery box panel near top inboard edge.
- (23) Install grommet (4).

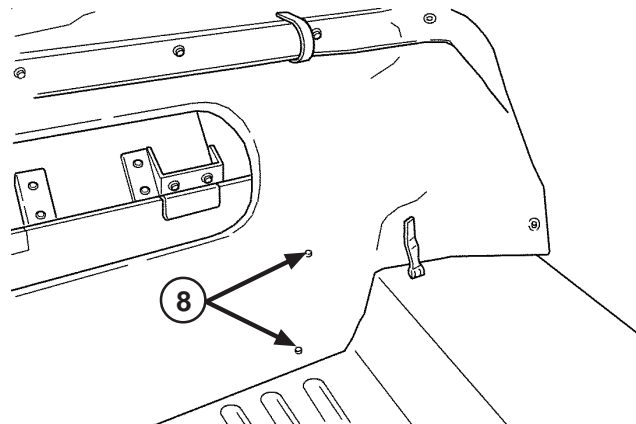


**Figure 2-269. Rear and Side Curtains**

- (24) Four-door vehicles only:
  - a. Remove rear curtain (5) from three lower quarter turn fasteners (6) on rear b-pillar.
  - b. Remove side curtain (7) from two lower quarter turn fasteners (6) on rear b-pillar.
  - c. Repeat for remaining side.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)



**Figure 2-270. Center Armor Hardware Cutouts**

- (25) Pull rear curtain down tight over rear of armor plate.
- (26) Mark and cut four crosses (8) over the bolts and nuts attaching the center armor plate to the rear side plates.
- (27) Cut crosses just large enough for nut to push through.

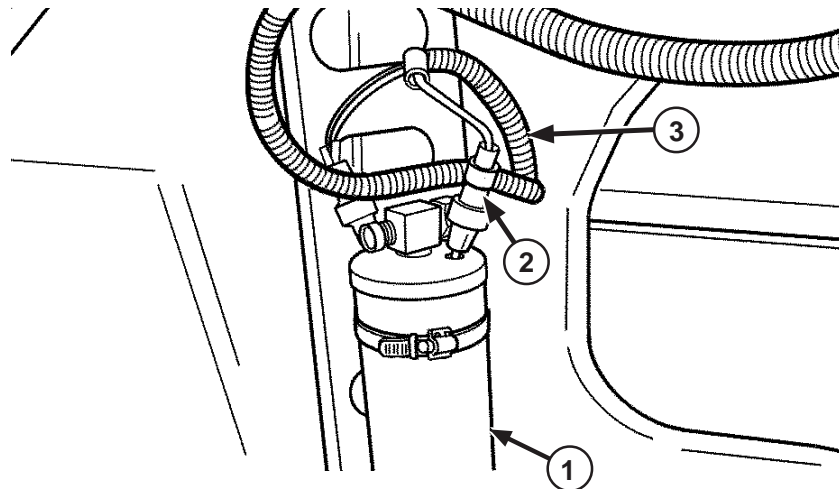


## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### c. Install Drier

#### **CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.



*Figure 2-271. Receiver/Drier*

- (1) Remove screw on caps from ports on top of receiver/drier (1).

#### **NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.

#### **NOTE**

For ease of installation, pre-bend end of band clamps prior to inserting in slots on driver's side condenser mount angle.

- (3) Connect condenser harness (3) to pressure switches (2) on receiver/drier (1).

**2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).**

**d. Install Refrigerant Hoses**

**CAUTION**

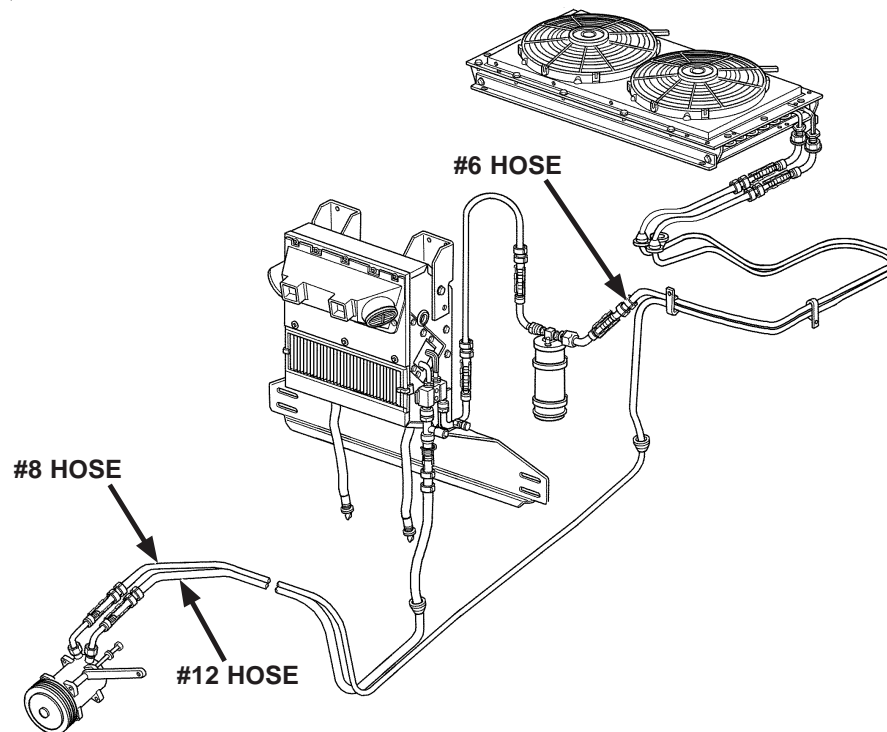
- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply could result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply could result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioning system. Failure to comply could cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply could result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply could result in damage to equipment.
- Before connecting fittings, check to see that O-rings are present and undamaged. Failure to comply could result in damage to equipment.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses. Failure to comply could result in damage to equipment.

**NOTE**

- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-272. Refrigerant Hose Routing**

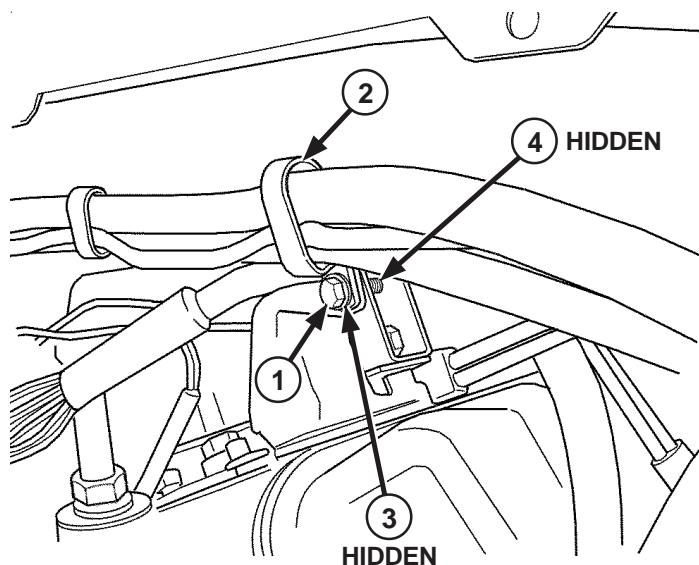
- (1) Trim two grommets to achieve a snug fit around #6 hose and #12 hose.
- (2) Install grommets in forward holes in fender well. The #12 hose will go in the lower hole.
- (3) Trim two grommets to achieve a snug fit around #6 hose and #8 hose.
- (4) Install grommets in remaining holes in fender well. The #8 hose will go in the forward hole.
- (5) Compressor to condenser, #8 hose:
  - a. Route hose through grommet in fender well and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
- (6) Evaporator to compressor, #12 hose:
  - a. Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. Route both #8 and #12 hoses over engine and behind air intake duct to passenger side of engine. Continue forward to compressor.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

**CAUTION**

- Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply may result in damage to equipment.
- Hoses should span no more than two feet without being secured. Failure to comply may result in damage to equipment.

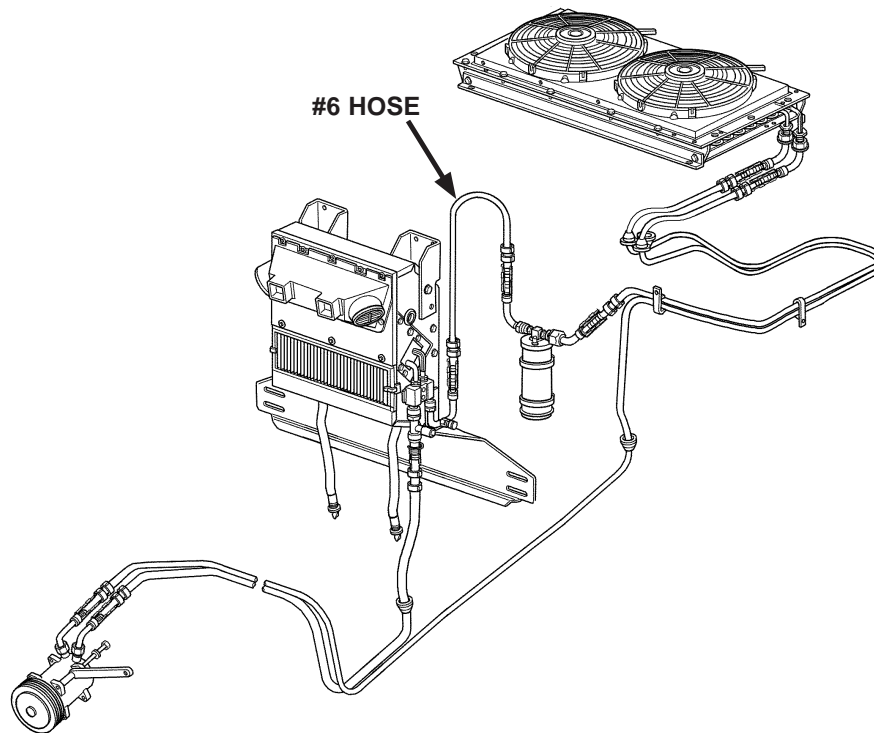


**Figure 2-273. P-Clamp**

- (7) Drill a 5/16 inch (.312) diameter hole in lower flange of fender well and secure #8 and #12 hoses with bolt (1), p-clamp (2), washer (3), and locknut (4).

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)

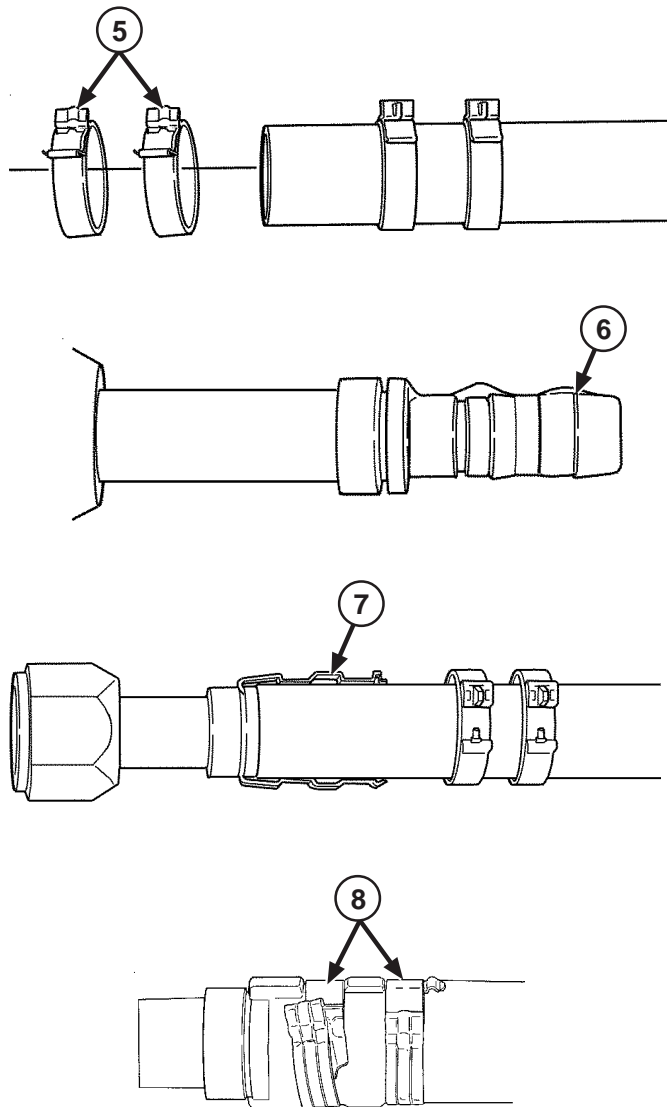


**Figure 2-274. Refrigerant Hose Routing**

- (8) Evaporator to drier, #6 hose:
  - a. Cut a six foot section from #6 hose. Route six foot section of #6 hose through front grommet in armor floor plate, across top of transmission to driver side frame rail. Continue forward on top of frame rail.
  - b. Secure to outlet (female) fitting on drier.
- (9) Drier to condenser, #6 hose:
  - a. Route remaining length of #6 hose from inlet (male) fitting on drier up back wall of cab. Secure to #8 hose to condenser.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

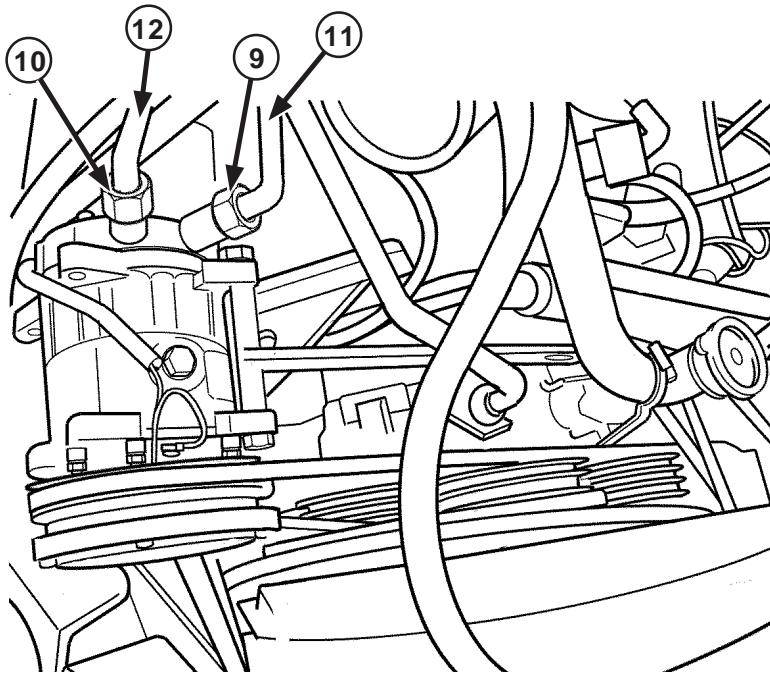


**Figure 2-275. Refrigerant Hose Preparation**

- (10) Prepare refrigerant hoses for connection:
  - a. Cut hose to proper length. Cut should be square to hose.
  - b. Slide two clips (5) onto cut end of hose. Both clips should be oriented in same direction.
  - c. Lubricate connection nipple (6).
  - d. Insert nipple fully into hose.
  - e. Snap the cage (7) over the hose and groove on nipple. The cage should rotate in groove.
  - f. Slide the clips over the cage and into the grooves on nipple.
  - g. Close the clips. The bump and lock latch (8) alignment must be square.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



*Figure 2-276. Compressor Connection*

- (11) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (9) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (10) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (11) and #12 (12) hoses to length and connect to fittings.
  - e. Tighten fittings.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

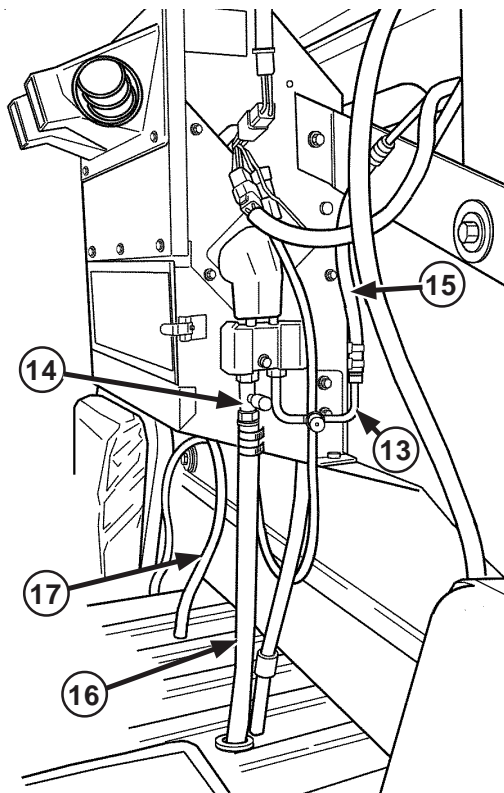


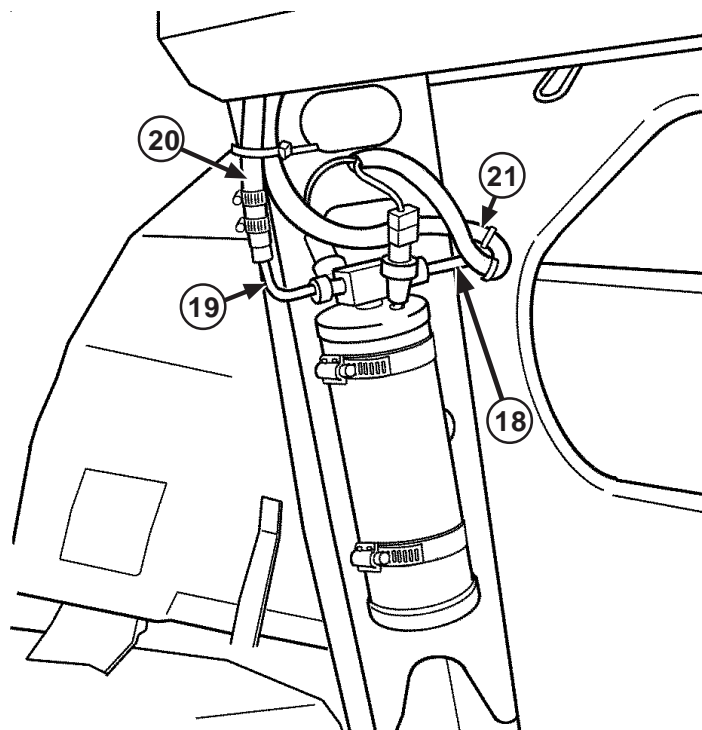
Figure 2-277. Evaporator Connection

- (12) Connect Evaporator.
  - a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (134) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (14) on forward expansion valve connection.
  - d. Trim ends of #6 (15) and #12 (16) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (17) to reach from bottom of evaporator unit to top of transmission tunnel. Install rubber duck bill fittings onto drain hoses.
  - g. Attach drain hoses (17) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.



## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-278. Drier Connection**

- (13) Connect Drier.
  - a. Lubricate O-ring and install #6 male stainless tube (18) on drier outlet.
  - b. Lubricate O-ring and install #6 female 90° fitting (19) on drier inlet.
  - c. Trim ends of #6 hose (20) to condenser and connect to inlet (female) fitting.
  - d. Trim ends of #6 hose (21) to evaporator and connect to outlet (male) fitting.
  - e. Tighten fittings.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

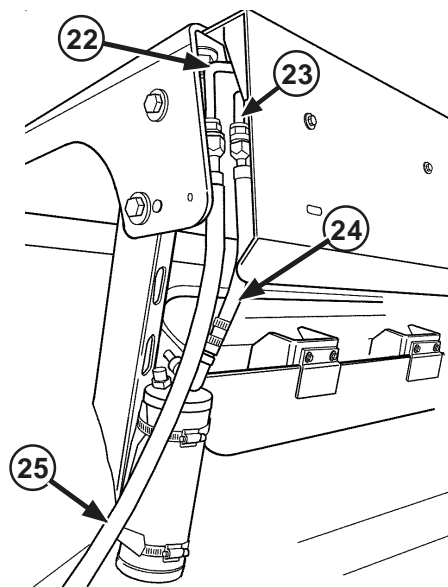
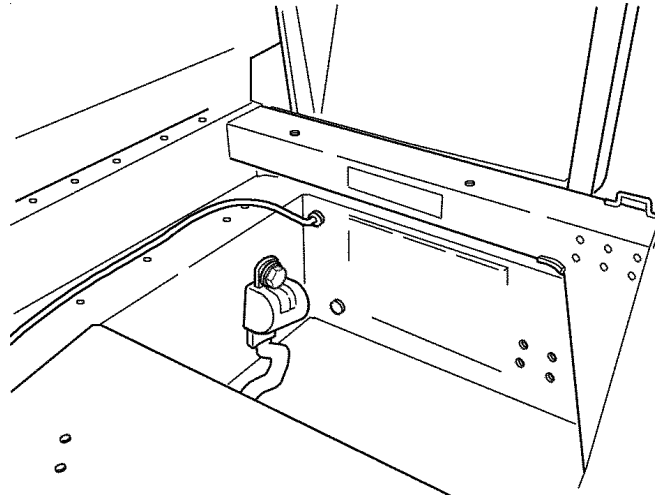


Figure 2-279. Condenser Connection

- (14) Connect Condenser.
  - a. *Four-door vehicles only:* Lubricate O-ring and install #6 female straight fitting on outlet (smaller) fitting on condenser.
  - b. *Two-door vehicles only:* Lubricate O-ring and install #6 female 45° fitting (22) on outlet (smaller) fitting on condenser.
  - c. Lubricate O-ring and install #8 female straight fitting (23) to inlet (larger) fitting on condenser.
  - d. Trim ends of #6 hose (24) from drier and connect to right fitting.
  - e. Trim ends of #8 hose (25) from compressor and connect to left fitting.
  - f. Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses



**Figure 2-280. Electrical Harness Routing (Evaporator)**

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).
- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. *Four-door vehicles only:* Route wires forward along transmission tunnel, then through grommet and into battery.
  - h. *Two-door vehicles only:* Route wires through grommet and into battery box.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

e. Install Electrical Harnesses (Cont'd)

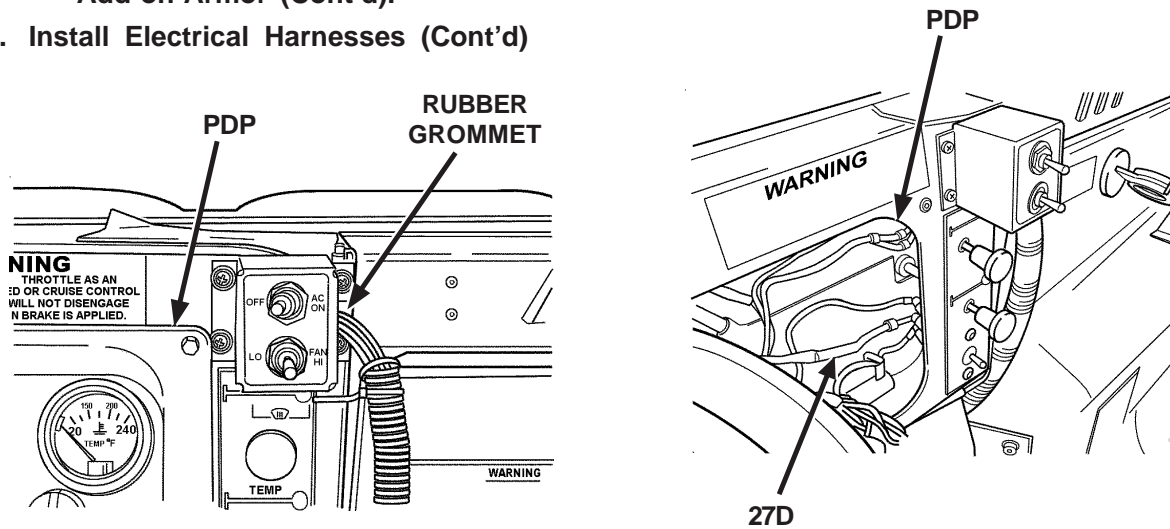


Figure 2-280.1 Electrical Harness Routing (Evaporator) Figure 2-281. Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open (PDP).
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled "27D") supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close (PDP) and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

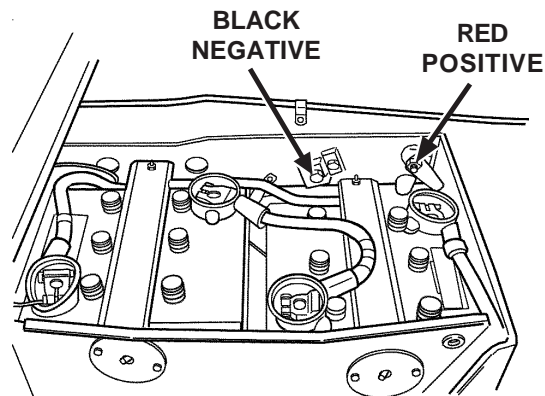
### e. Install Electrical Harnesses (Cont'd)

#### NOTE

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

#### (5) Drier.

Connect extension harness (RD-4-5958-0) to pressure switches on drier.



**Figure 2-282. Battery Connection**

#### (6) Battery Box.

- Attach **RED** wire of power and ground harness to **POSITIVE** terminal of battery.
- Attach **BLACK** wire of power and ground harness to screw on **NEGATIVE** ground shunt.
- Connect batteries.
- Check for 24 Volts DC.

### f. Secure and Wrap Hoses and Harnesses

#### CAUTION

- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
- Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
- Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.

- (1) Install around refrigerant lines and compressor harness in engine compartment.
- (2) Secure with nylon ties.

2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

g. Air Distribution Ducting

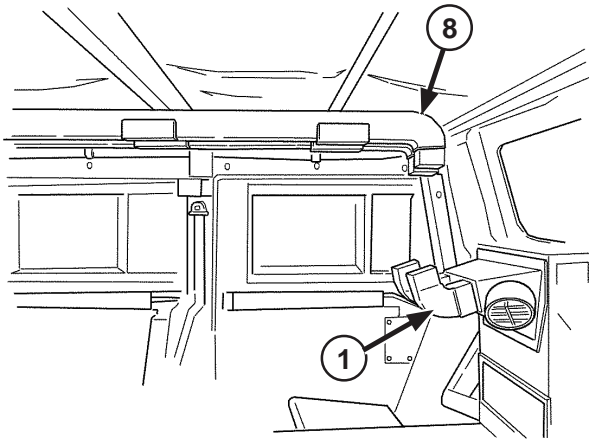


Figure 2-283. Front Ducting

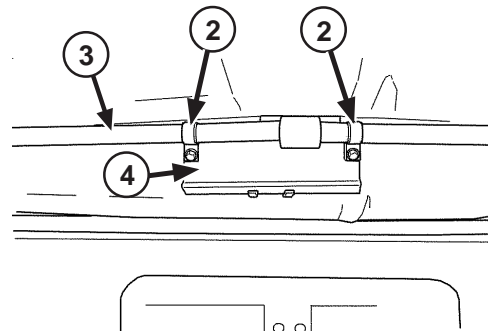


Figure 2-284. P-Clamps

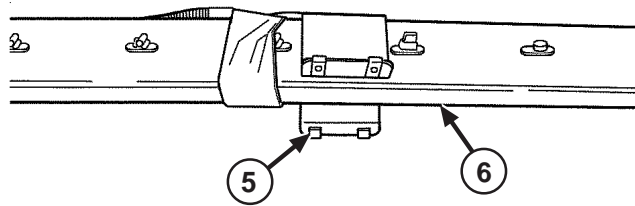


Figure 2-285. Attaching Ducting

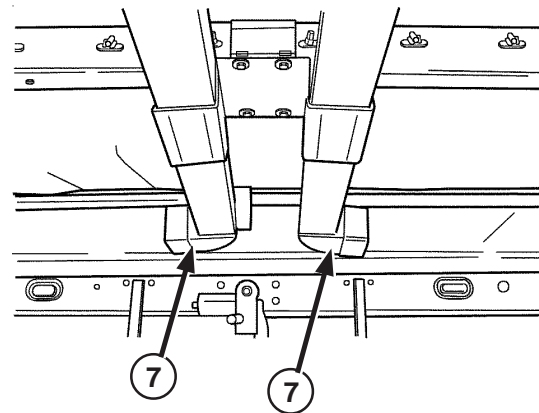
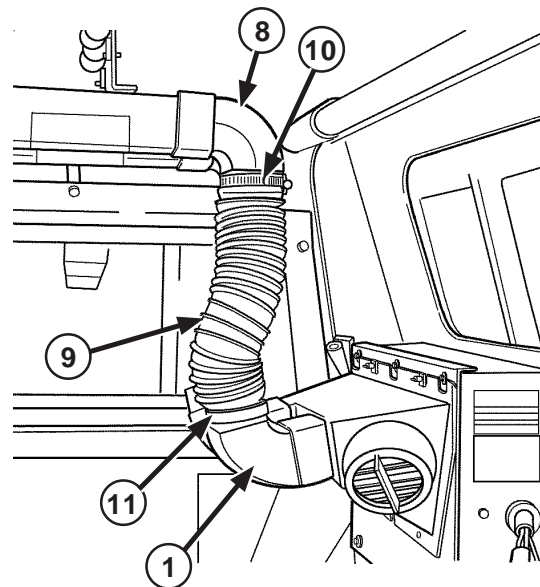


Figure 2-286. 90° Elbows

- (1) For air distribution ducting to front:
  - a. Attach female end of 90° elbow (1) to plenum with male end pointing upward.
  - b. Position p-clamps (2) over rear canvas strut (3).
  - c. Attach rear bracket (4) to p-clamps (2).
  - d. Using support brackets (5), clamp ducting to b-pillar (6).
  - e. Attach 90° elbows (7) to forward end of ducts to turn air toward driver and front passenger.
  - f. Attach 90° elbows (8) to rear end of ducts with elbows (8) facing downward toward elbows (1).

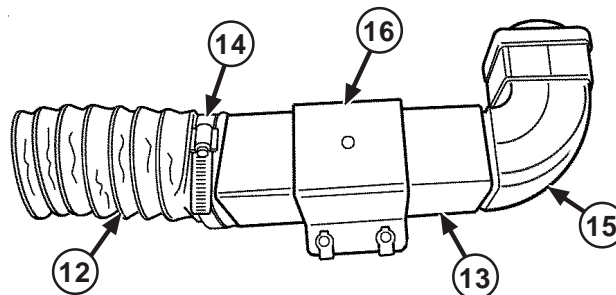
## 2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).

### g. Air Distribution Ducting (Cont'd)



**Figure 2-287. Flex Hose**

- (2) Cut enough flex hose (9) to connect elbow (1) and elbow (8).
- (3) Pre-bend band clamp and flex hose into 2.5 inch square.
- (4) Attach flex hose (9) to elbow (1) and elbow (8) with band clamp (10) and band clamp (11).
- (5) When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.



**Figure 2-288. B-Pillar Clamps**

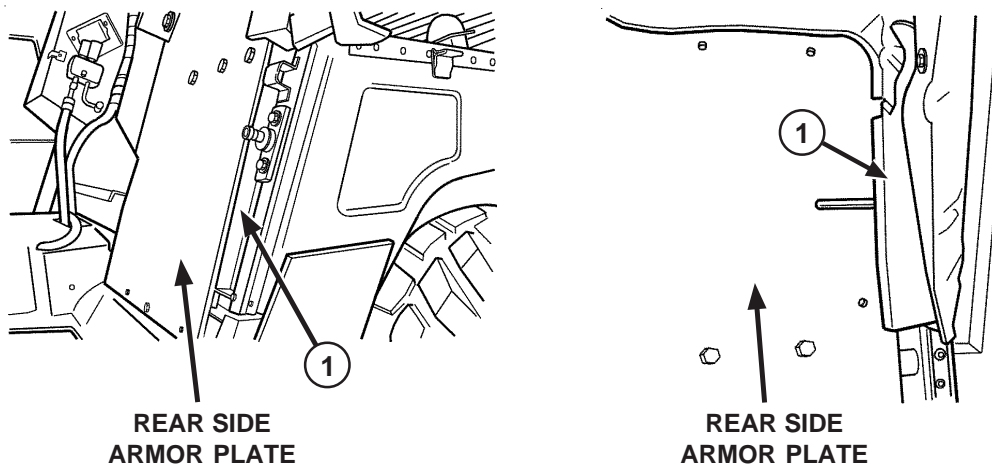
- (6) Four-door vehicles with ring turret only:
  - a. Pre-bend band clamps and flex hose into 2.5 inch square.
  - b. Attach flex hose (12) to plenum (13) with band clamps (14). Do not overtighten.
  - c. Cut two eight inch sections of square ducting.
  - d. Attach 90° elbows (15) with louvers to one end of each eight inch section.
  - e. Apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.
  - f. Attach three inch flex hose (12) to end of duct.
  - g. Secure duct to clamps with screws.
  - h. Attach ducts with louvers in desired locations with b-pillar clamps (16) and screws.

**2-2.2 Installation of Air Conditioning Kit to M998 and M998A1 Four-Door with O'Gara Hess Add-on-Armor (Cont'd).**

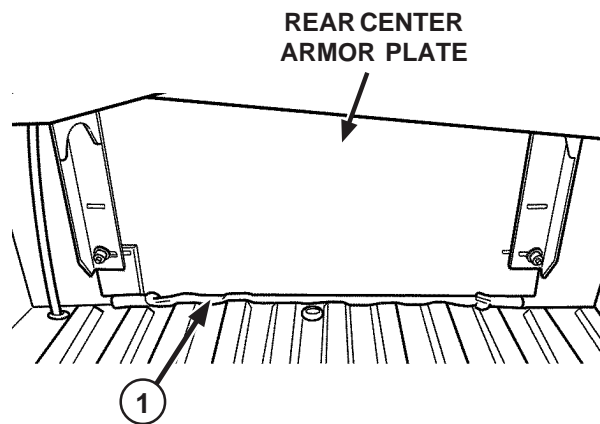
**g. Air Distribution Ducting (Cont'd)**

- (7) If air distribution to front is not possible or desired:
  - a. Cut off female end of 90° elbows so the elbows fit over the square outlets on the plastic plenum.
  - b. Attach 90° elbows to plenum.
  - c. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

**h. Prepare System for Use**



*Figure 2-289. Rear Side Armor Plates*



*Figure 2-290. Rear Center Armor Plate*

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).



### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor.

#### **WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

#### **CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

#### **NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnecting/reconnecting battery.
  3. Routing and attaching power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor

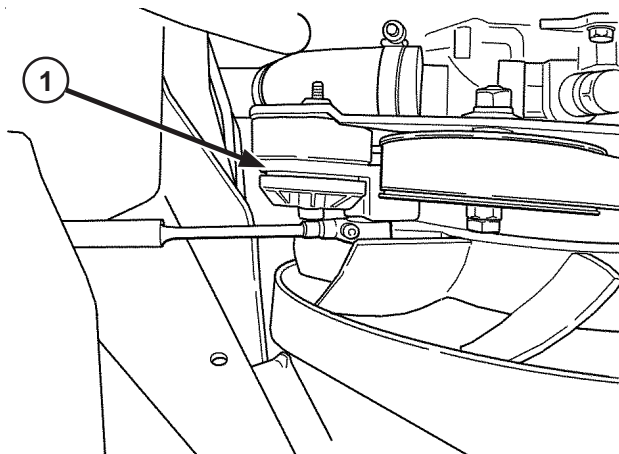
**CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

**NOTE**

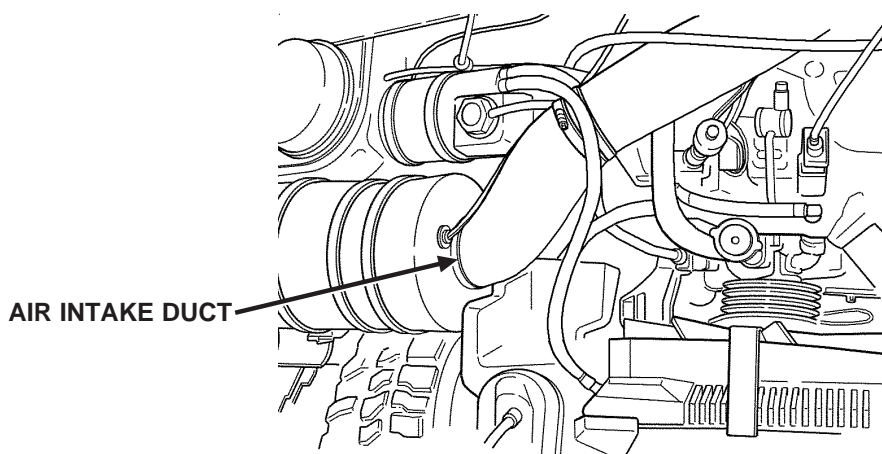
The Compressor Kit is designed to be installed with both versions of the liten serpentine belt drive systems.

**Compressor Mounting Model RD-9-10012-0:**



**Figure 2-291. Breaker Bar**

- (1) Using a 3/8 ratchet or breaker bar, rotate belt tensioner (1). Slip belt off passenger side grooved idler pulley. Remove belt.

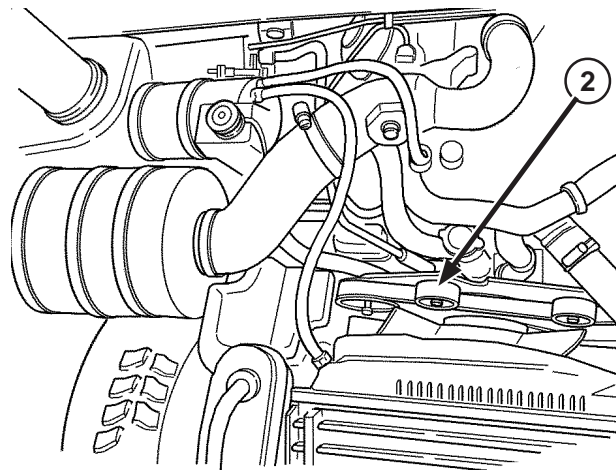


**Figure 2-292. Air Intake Duct Removal**

- (2) Mark air intake duct at the air filter housing. Remove air intake duct.

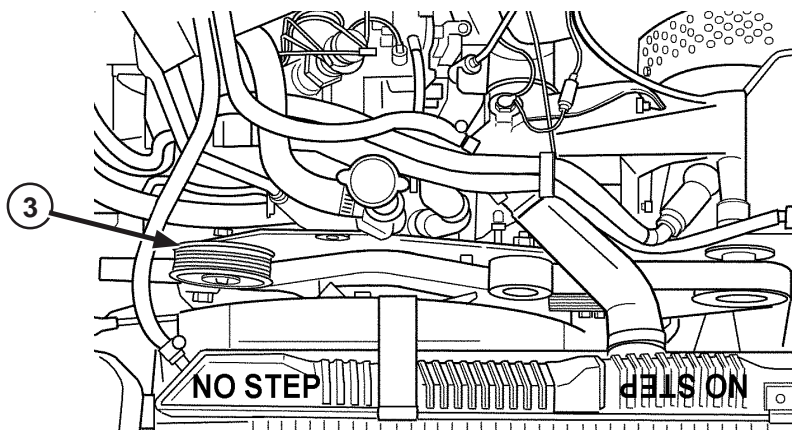
### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### a Install Compressor (Cont'd)



**Figure 2-293. Center Flat Idler Pulley**

- (3) Remove center flat idler pulley (2) from engine pulley plate.
- (4) Loosen alternator and power steering pump belts.
- (5) Slip belts off alternator and power steering pump pulleys.
- (6) V-belts. Disconnect fan clutch hose to remove belts.
  - a. If the vehicle will be upgraded to use a 200 amp alternator, and three forward belts are to be used to drive the alternator, one new longer belt will be used for the power steering pump and the air conditioning compressor. Remove the existing power steering belt(s) and replace with new longer belt.
  - b. If only the two forward belts will be used for the alternator, the power steering pump will be driven by one new longer belt. Remove only one power steering belt and install be longer belt on rear most pulley groove.
  - c. Reconnect fan clutch hose.



**Figure 2-294. 5-Inch Idler Pulley Removal**

- (7) Remove passenger side grooved 5-inch idler pulley (3).

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

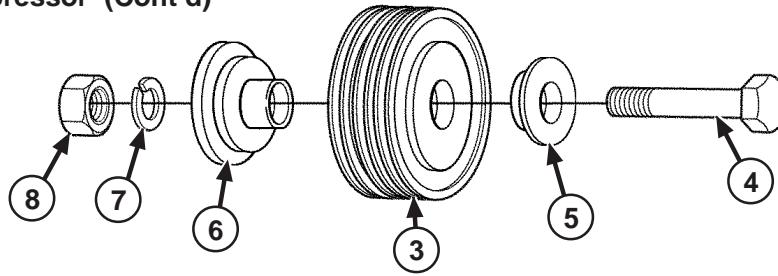


Figure 2-295. 5-Inch Idler Pulley

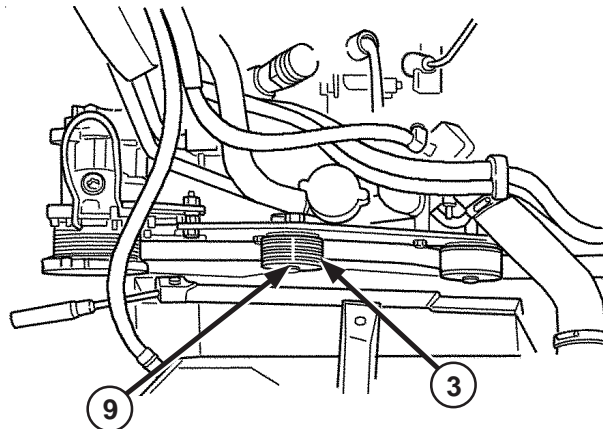


Figure 2-295.1 3-Inch Idler Pulley

- (8) Remove bolt (4), washer (5), bushing (6), lockwasher (7), and nut (8) from 5-inch idler pulley (3). Set aside.
- (9) Install new 3-inch grooved idler pulley (9) where center flat idler pulley was removed.
- (10) Secure with hardware from 5-inch pulley (3).

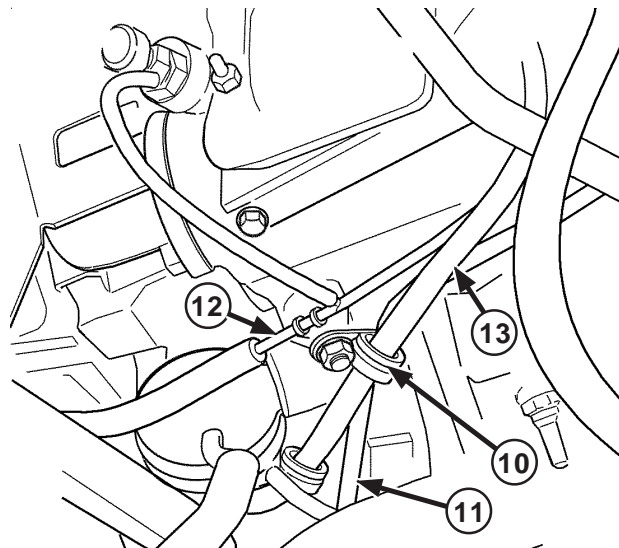
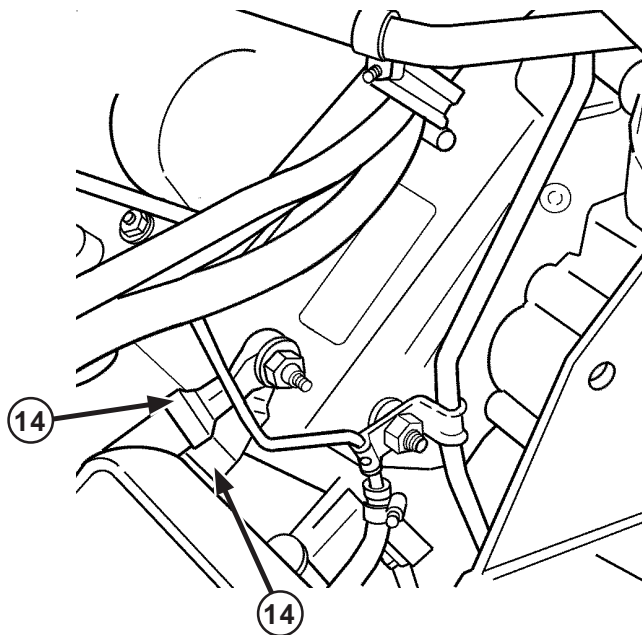


Figure 2-296. Compressor Installation

- (11) Remove clamps (10) attaching fuel line (11), fuel return line (12), and wire harness (13) to engine. Set hardware aside for future use.

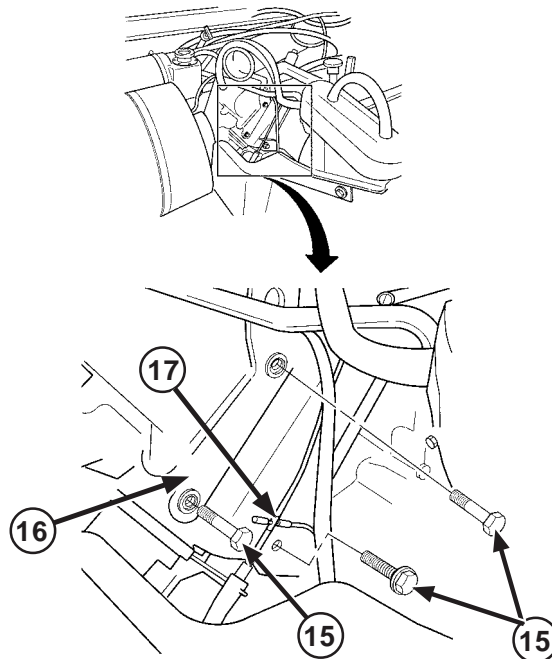
### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)



**Figure 2-297. Ground Cables Disconnect**

- (12) Disconnect ground cables (14) from lower cylinder head stud. Set aside hardware.

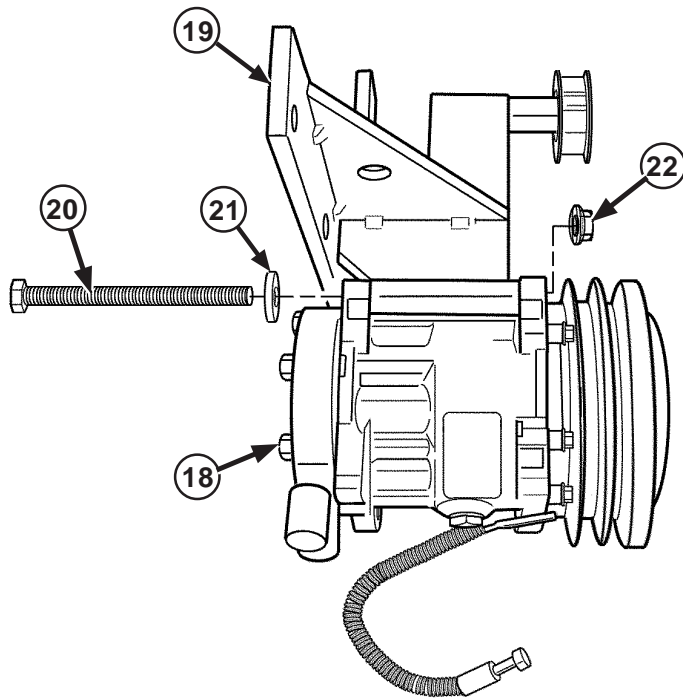


**Figure 2-298. Air Intake Duct Support Bracket**

- (13) Remove studs/bolts (15), attaching air intake duct support bracket (16), and fuel line clamps to engine.
- (14) Disconnect fuel return hose from fuel return line "T" (17).

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)



**Figure 2-299. Compressor Installation**

- (15) Position compressor (18) on mounting bracket (19) and secure with bolt (20), washer (21), and locknut (22). Tighten bolt (20) to 18 ft-lbs. Do not overtighten.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

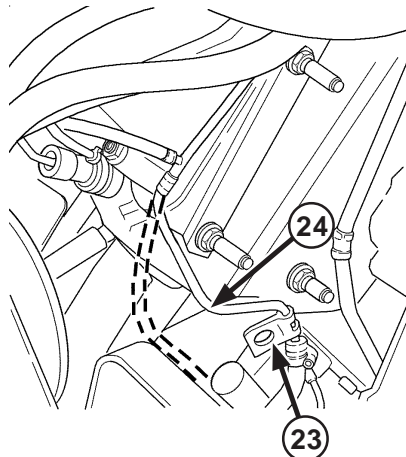
#### a. Install Compressor (Cont'd)

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

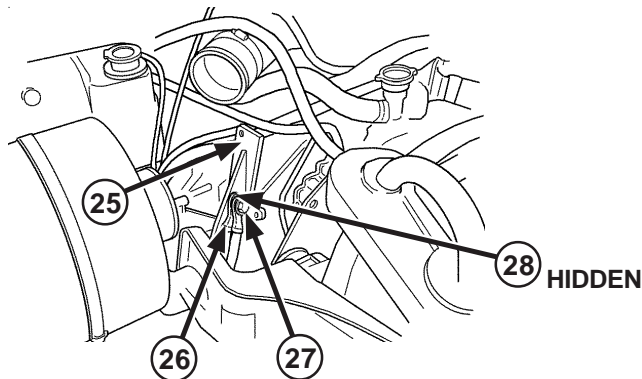
#### **NOTE**

To achieve good electrical ground, make sure no paint is present under ground cables, in threaded hole, or on mounting surface.



**Figure 2-300. Clamp and Fuel Vent Line**

- (16) Loosen clamp (23) attaching fuel vent line (24) to valve cover stud.
- (17) Bend fuel vent line slightly rearward to clear compressor mount bracket.



**Figure 2-301. Mounting Bracket and Ground Cables**

- (18) Clean mounting surface where mounting bracket mounts to engine with solvent (item 10, Appendix D).
- (19) Lower mounting bracket (25) and compressor onto mounting location in front left side of engine.
- (20) Secure ground cables (26) to mounting bracket (25) with original bolt (27) and washers (28).

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

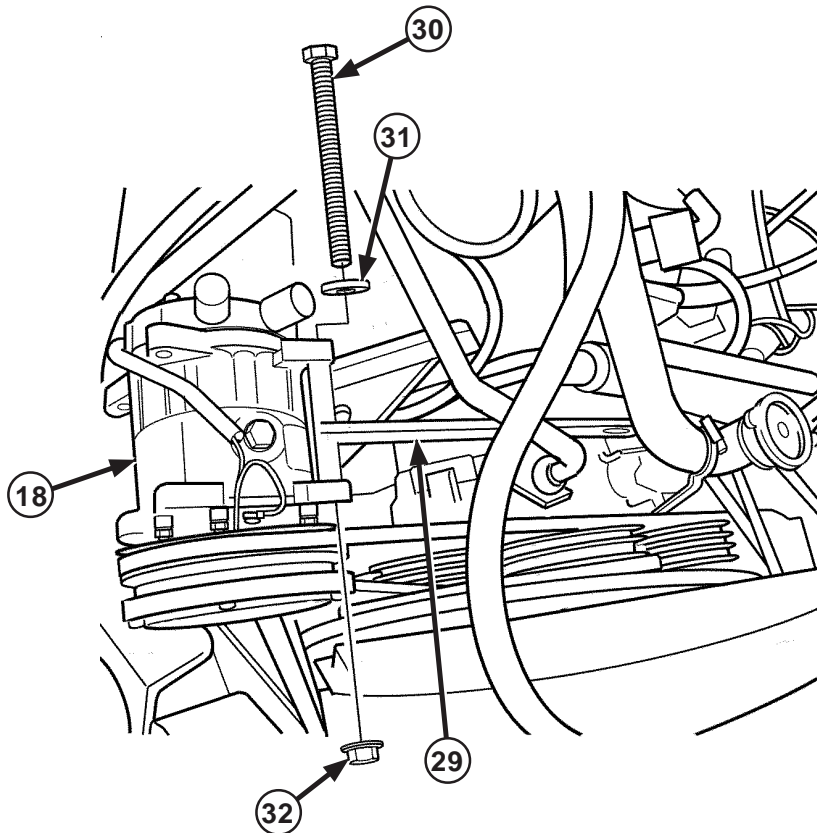


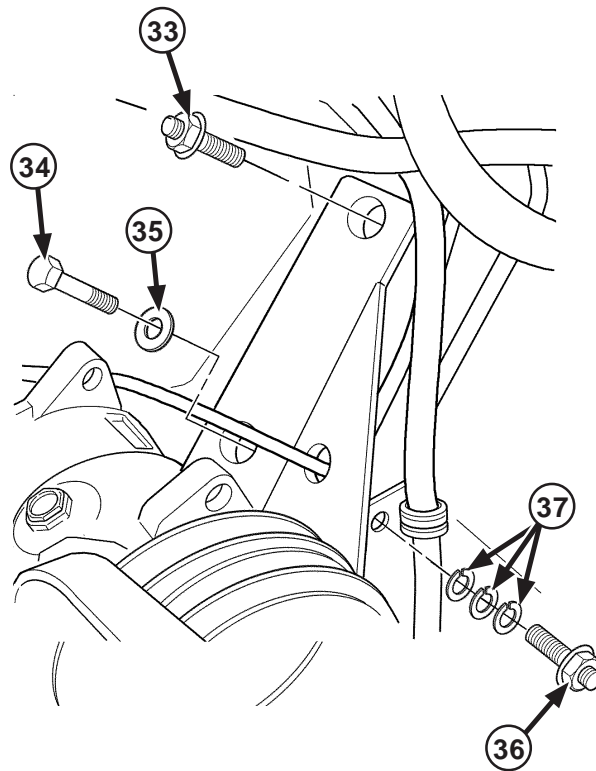
Figure 2-302. Compressor Adjusting Arm

(21) Position compressor adjusting arm (29) on compressor (18) and secure with bolt (30), washer (31), and locknut (32). Tighten bolt (30) to 18 ft-lbs. Do not overtighten.



### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)



**Figure 2-303. Compressor Mounting Bracket to Cylinder Head**

- (22) Secure mounting bracket upper tabs to cylinder head with stud (33), screw (34), and lockwasher (35).
- (23) Secure mounting bracket lower tabs to engine block with stud (36) and three lockwashers (37). Thread longer end of stud into engine. Torque to 40 ft-lbs. Do not overtighten.
- (24) Reconnect clamps attaching fuel line, fuel return line and wire harness to engine.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd).

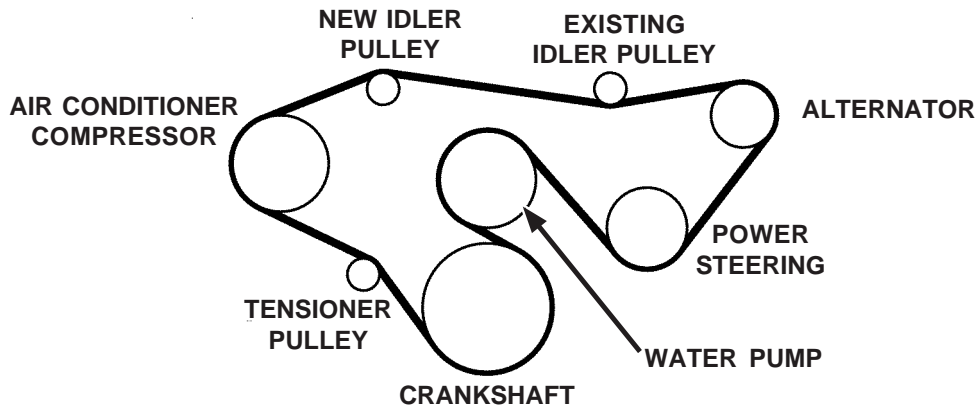


Figure 2-304. AC/Power Steering Belt

(25) Install new AC/power steering belt as shown.

**WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. DO NOT smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

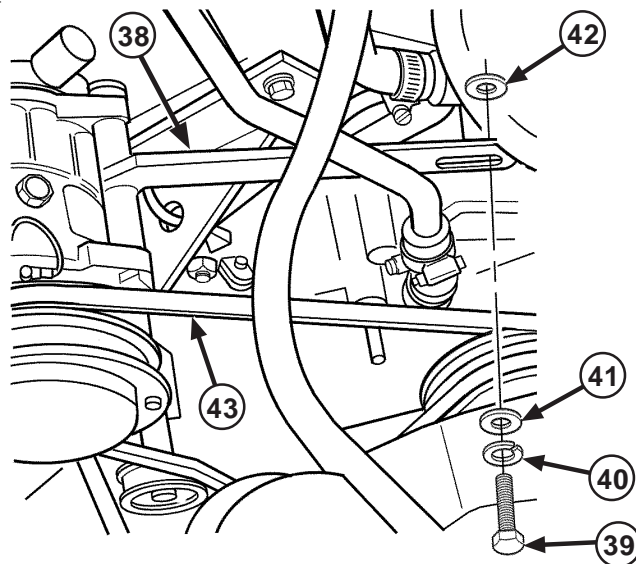
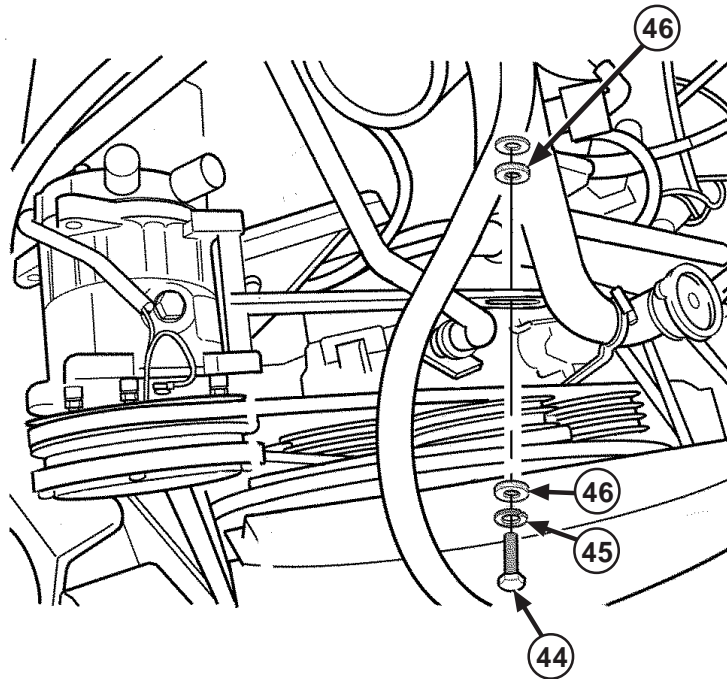


Figure 2-305. Adjusting Arm Installation

- (26) Clean mounting surface where adjusting arm mounts to water pump housing with solvent (item 10, Appendix D).
- (27) Secure adjusting arm (38) to water pump housing with bolt (39), lockwasher (40), washer (41), and washer (42).
- (28) Adjust tension on belt (43). Rotate compressor outboard until proper belt tension is reached.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)



**Figure 2-306. Compressor Adjustment**

- (29) Tighten all compressor mounting bolts. Torque to 35 ft-lbs. Do not overtighten.
- (30) Check clearance between compressor belt and lower radiator hose. If clearance is less than 3/8 inch, remove bolts (44), and lockwashers (45) attaching lower radiator pipe to vehicle frame. Install two or four spacers (46) between radiator pipe bracket and frame bracket to shift pipe rearward away from belt. Reinstall bolts attaching lower radiator pipe to vehicle frame.
- (31) Reinstall alternator belts and adjust belt tension.
- (32) Reinstall air intake duct after connecting refrigerant hoses to compressor.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

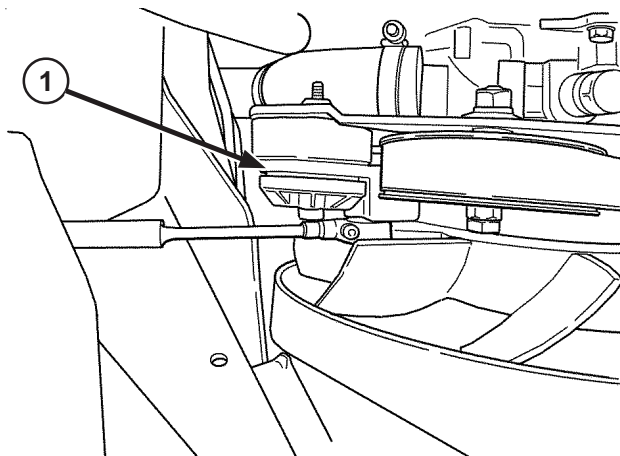
**CAUTION**

When tightening bolts, DO NOT overtighten. Torque to specified torque value only. Failure to comply may result in damage to equipment.

**NOTE**

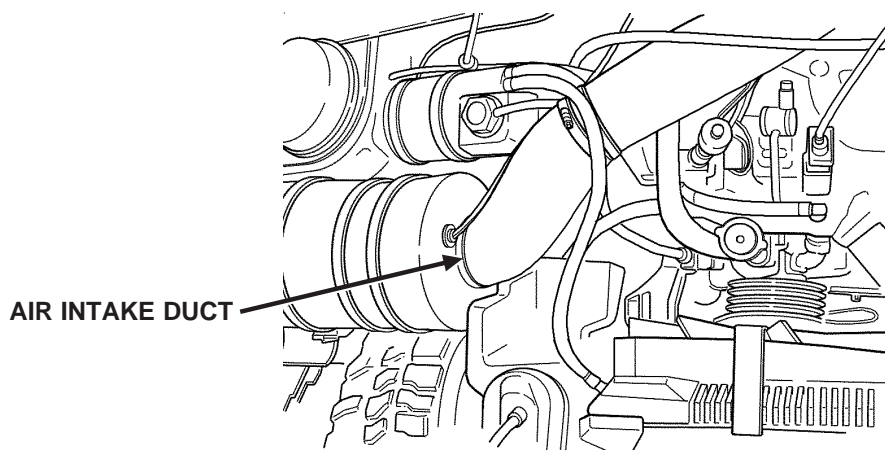
The Compressor Kit is designed to be installed with both versions of the liten serpentine belt drive systems.

**Compressor Mounting Model 2-4114-0:**



**Figure 2-307. Breaker Bar**

- (1) Using a 3/8 ratchet or breaker bar, rotate belt tensioner (1). Slip belt off passenger side grooved idler pulley. Remove belt.

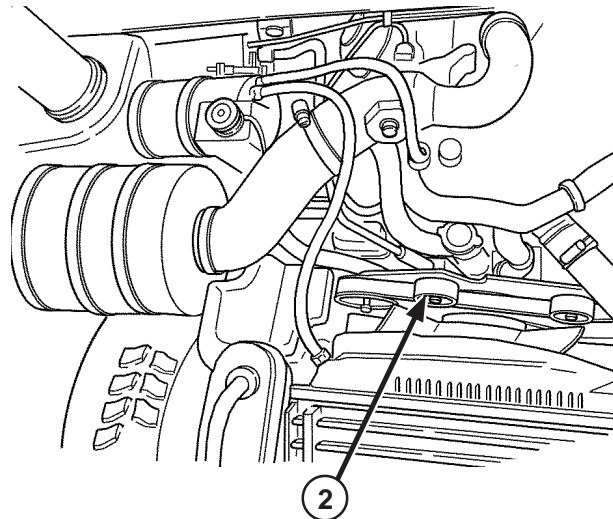


**Figure 2-308. Air Intake Duct Removal**

- (2) Mark air intake duct at the air filter housing. Remove air intake duct.

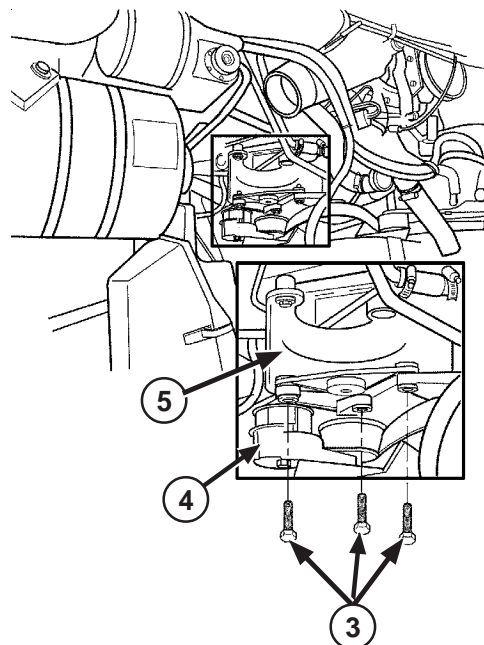
**2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).**

**a. Install Compressor (Cont'd)**



**Figure 2-309. Center Flat Idler Pulley**

- (3) Remove center flat idler pulley (2) from engine pulley plate.



**Figure 2-310. Idler Pulley Bracket Removal**

- (4) Remove three bolts (3) and idler pulley bracket (4) from tensioner mount bracket (5).

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

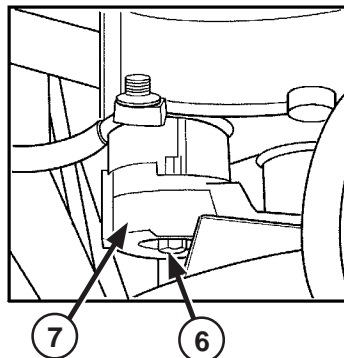


Figure 2-311. Tension Bracket Removal

- (5) Remove bolt (6) and tensioner mount bracket (7). Set tensioner and hardware aside for future use.

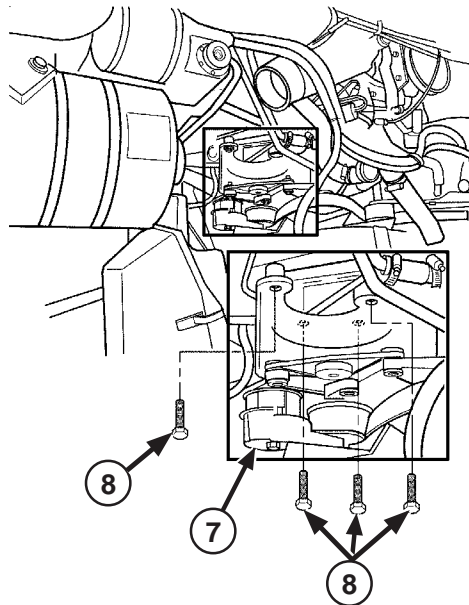
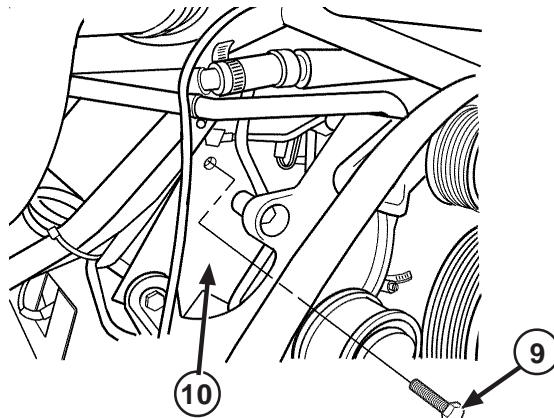


Figure 2-312. Tensioner Mount Bracket Removal

- (6) Remove four bolts (8) and tensioner mount bracket (7) from engine. Set hardware aside for future use.

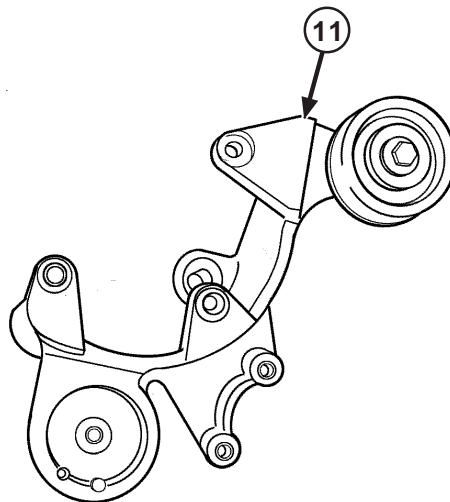
### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### a. Install Compressor (Cont'd)



**Figure 2-313. Engine Lift Bracket**

- (7) Remove upper bolt (9) from engine lift bracket (10) and cylinder head.



**Figure 2-314. Tensioner**

- (8) Position drill template on tensioner mounting surface of tensioner mount bracket (11).  
 (9) Drill 3/8 inch (.375 mm) diameter hole in new location.  
 (10) Verify that tensioner center bolt can be installed with tensioner stop pin inserted in drilled hole.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

a. Install Compressor (Cont'd)

(11) Install four bolts (12) and tensioner mount bracket (11) to engine.

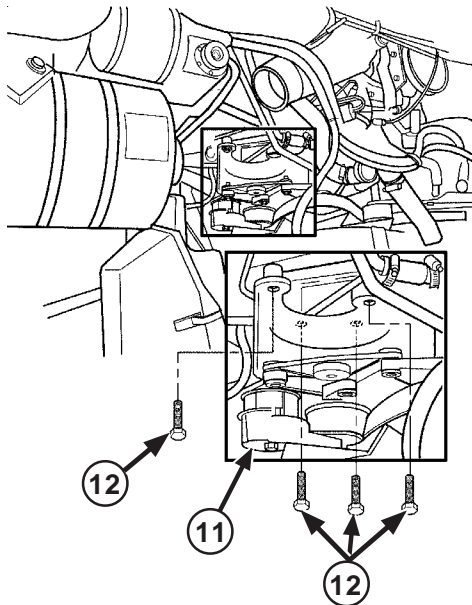


Figure 2-315. Tensioner Mount Bracket

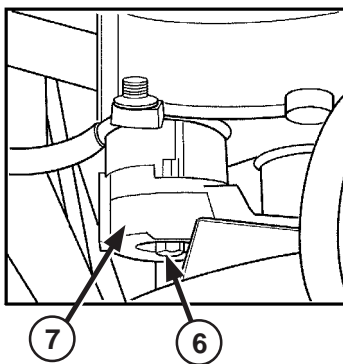


Figure 2-316. Belt Tensioner Installation

- (12) Install bolt (6) and belt tensioner to tensioner mount bracket (7) with stop pin in drilled hole.
- (13) Attach compressor/compressor mount brackets to belt tensioner mount bracket and cylinder head at engine lifting bracket top hole.
- (14) Tighten all compressor mount bolts.
- (15) Remove original belt and install new belt from kit.
- (16) Re-install air intake duct after connecting refrigerant hoses and compressor wire to compressor.



### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser

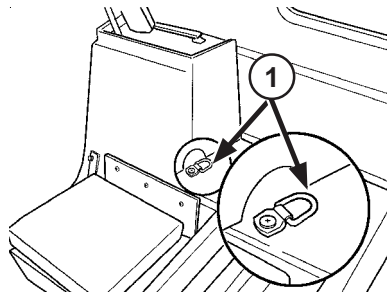


Figure 2-317. D-Ring

- (1) Remove D-ring (1) located near passenger side seat on top of transmission tunnel.
- (2) Remove top screws attaching driver's side mats to transmission tunnel.
- (3) Position evaporator drill template on transmission tunnel. Center on D-ring hole and align the driver's side of the template parallel to the ribs on the transmission tunnel.

#### **WARNING**

When drilling through floor, use caution not to damage or drill into the fuel tank. Failure to comply may cause damage to equipment and/or injury to personnel.

- (4) Using template as a guide, drill three 7/16 inch (.437) diameter holes. De-burr holes.
- (5) Position hose routing template on driver's side fender well. Align the template to the upper front corner of the fender well.
- (6) Using template as a guide, drill four 1 1/4 inch (1.25) diameter holes and de-burr.

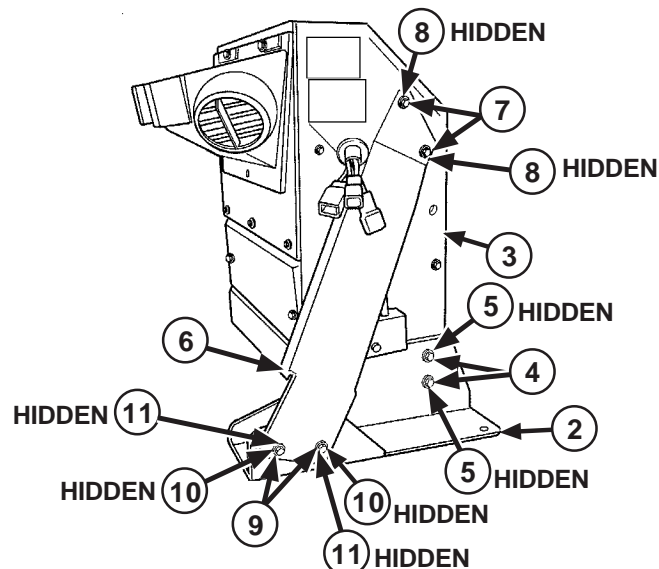


Figure 2-318. Evaporator Brackets

- (7) Position evaporator brackets (2) on evaporator unit (3) and secure with four bolts (4) and washers (5). Align bottom of brackets to bottom of unit and tighten bolts.
- (8) Position vertical driver's side evaporator bracket (6) on evaporator unit (3) and evaporator bracket (2) and secure with two bolts (7) and washers (8) on top of bracket and two bolts (9), four washers (10), and two locknuts (11) on bottom of bracket.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

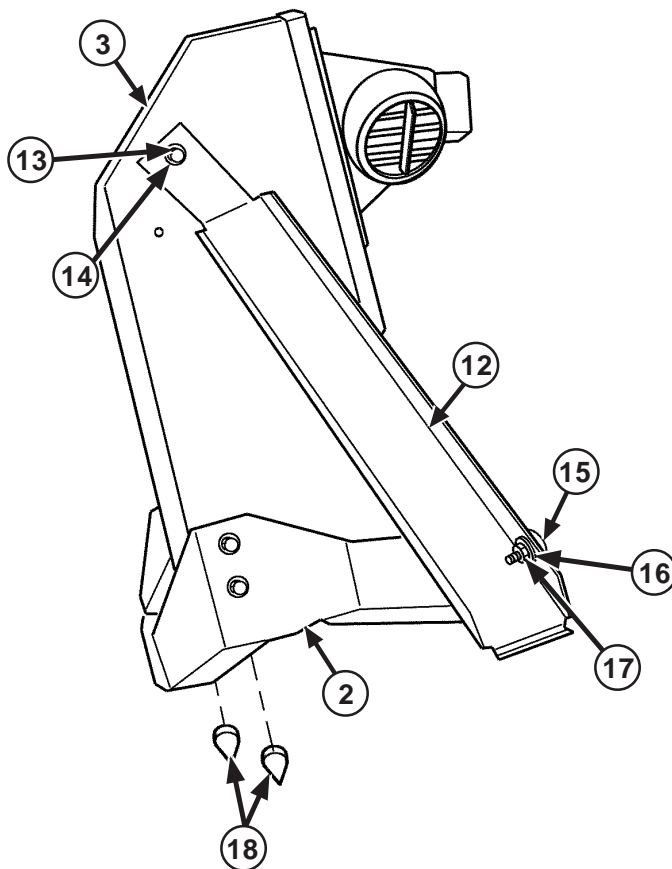


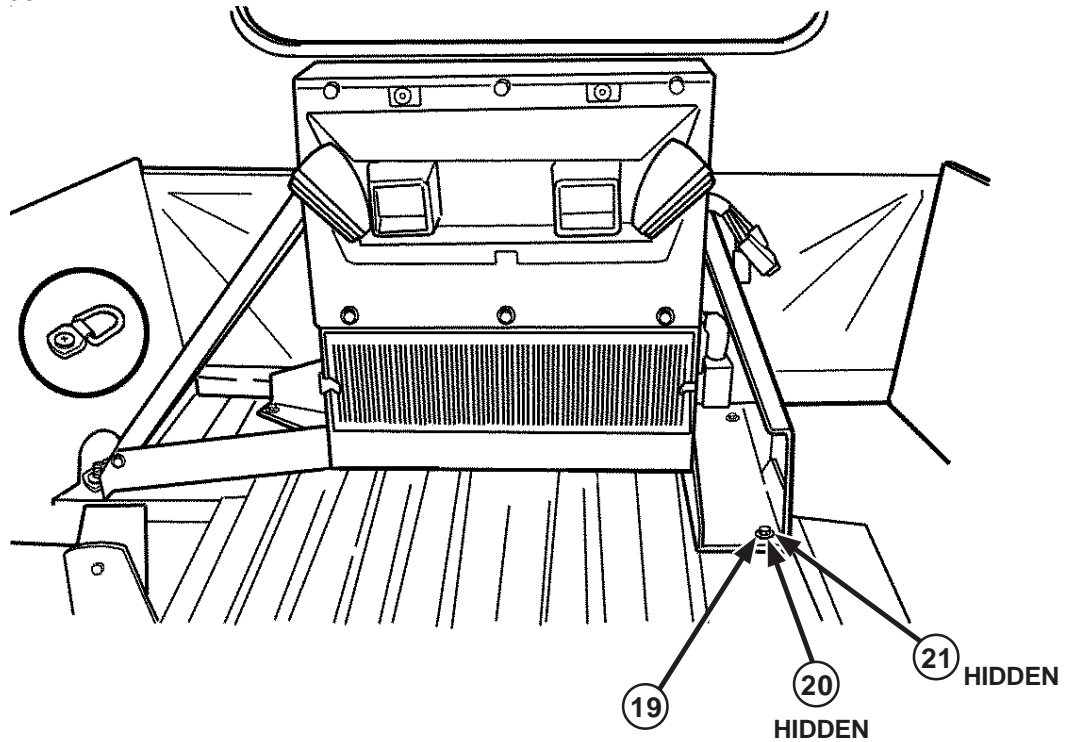
Figure 2-319. Evaporator Bracket (Passenger Side)

- (9) Position vertical passenger's side evaporator bracket (12) on evaporator unit (3) and evaporator bracket (2), and secure with bolt (13) and washer (14) on top of bracket and bolt (15), two washers (16), and locknut (17) on bottom of bracket.
- (10) Install duckbills (18) on drain nipples on bottom of evaporator unit.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser (Cont'd)

- (11) Position evaporator unit in vehicle and align holes in evaporator brackets over drilled holes in transmission tunnel. Align hole in passenger side vertical evaporator bracket with hole where D-ring was removed. Align drain tubes with duck bills with 1 1/4 inch (1.25) diameter holes.



*Figure 2-320. Evaporator Unit*

- (12) Secure unit through floor with three bolts (19), six washers (20), and three locknuts (21). Secure passenger side vertical evaporator bracket with previously removed bolt and D-ring.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)

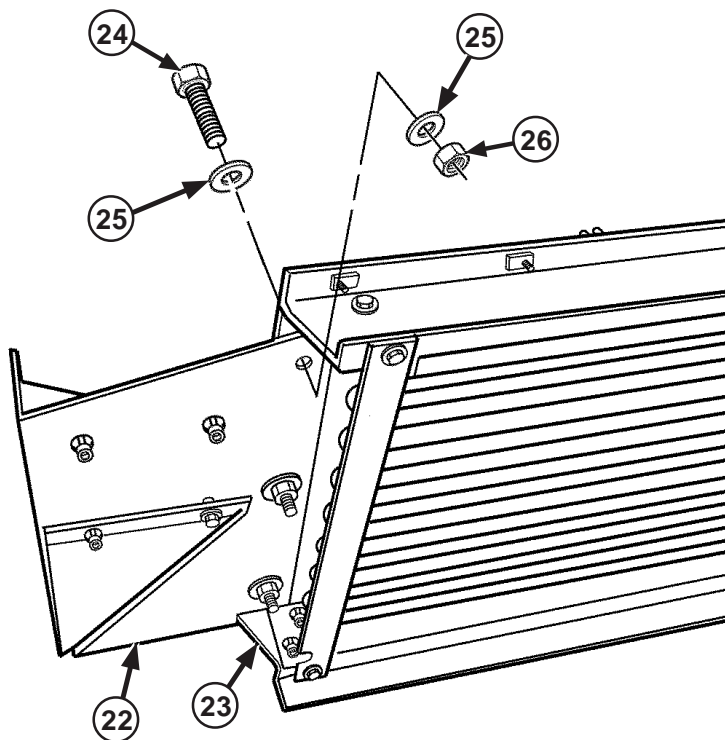


Figure 2-321. Core Support Bracket

- (13) Position passenger side core support bracket (22) with the notch (23) on the bracket at the bottom on the back side of the condenser flange and secure with three bolts (24), six washers (25), and three locknuts (26).

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser (Cont'd)

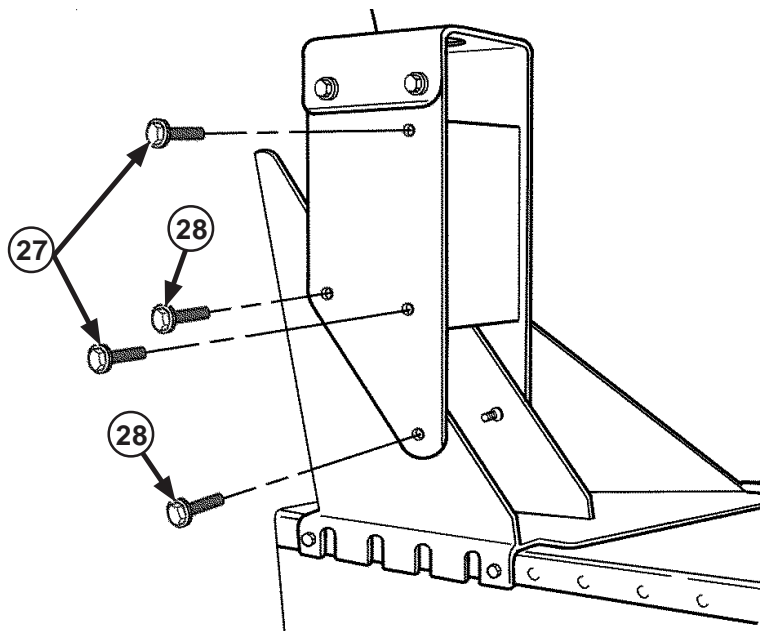


Figure 2-322. Antenna Mount

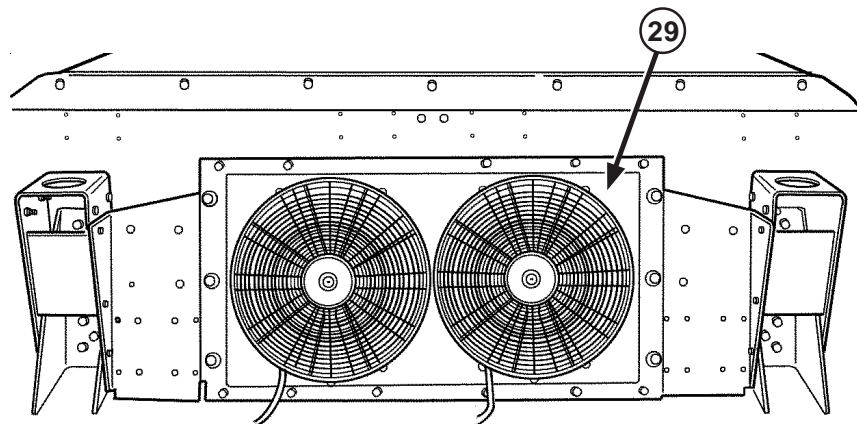
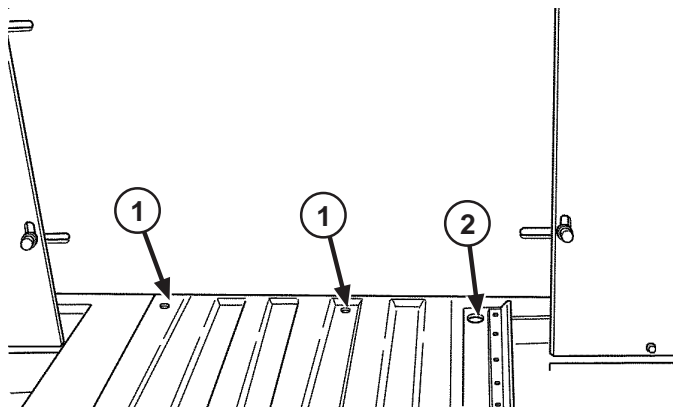


Figure 2-323. Condenser

- (14) Remove two bolts (27) and two bolts (28) from each antenna mount.
- (15) Position condenser (29) with fans facing the rear, between antenna mounts and secure with previously removed bolts (27) and bolts (28). Tighten driver's side bolts first, then passenger's side.

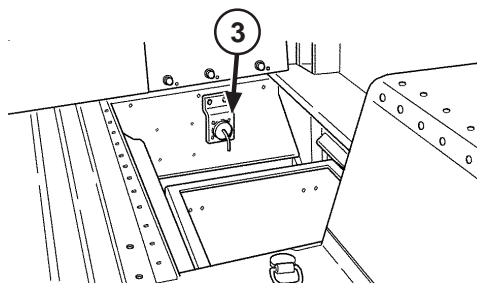
2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)



**Figure 2-324. Transmission Tunnel Holes**

- (16) If present, remove plywood panel from between seats on top of transmission tunnel.
- (17) Remove top screws from driver's side mats and transmission tunnel.
- (18) Position drill template (found in Installation Kit) on transmission tunnel and tape into position. Drill two 11/16 inch (.6875 inch) holes (1) and one 1 1/4 inch (1.25 inch) hole (2) as shown on side of transmission tunnel.
- (19) De-burr panel.

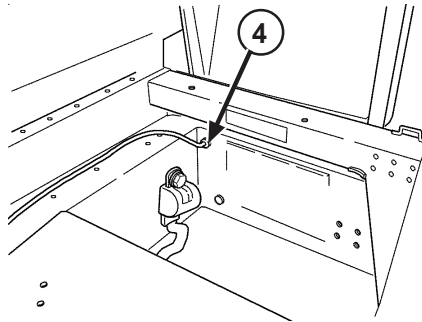


**Figure 2-325. Auxiliary Power Panel**

- (20) Remove front passenger seat to expose battery box.
- (21) Remove either auxiliary power panel (3) or batteries to gain access to drill hole in battery box.

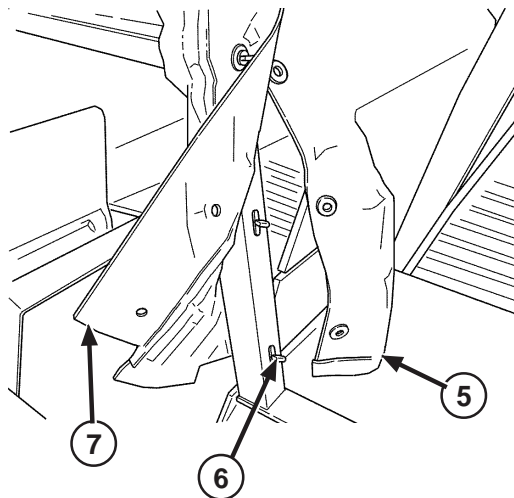
### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### b. Install Evaporator and Condenser (Cont'd)



**Figure 2-326. Rear Battery Box Panel Hole**

- (22) Drill 3/4 inch hole in rear battery box panel near top inboard edge.
- (23) Install grommet (4).

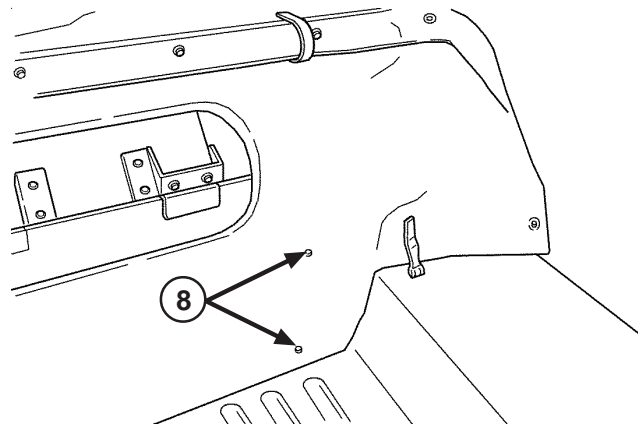


**Figure 2-327. Rear and Side Curtains**

- (24) Four-door vehicles only:
  - a. Remove rear curtain (5) from three lower quarter turn fasteners (6) on rear b-pillar.
  - b. Remove side curtain (7) from two lower quarter turn fasteners (6) on rear b-pillar.
  - c. Repeat for remaining side.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

b. Install Evaporator and Condenser (Cont'd)



**Figure 2-328. Center Armor Hardware Cutouts**

- (25) Pull rear curtain down tight over rear of armor plate.
- (26) Mark and cut four crosses (8) over the bolts and nuts attaching the center armor plate to the rear side plates.
- (27) Cut crosses just large enough for nut to push through.

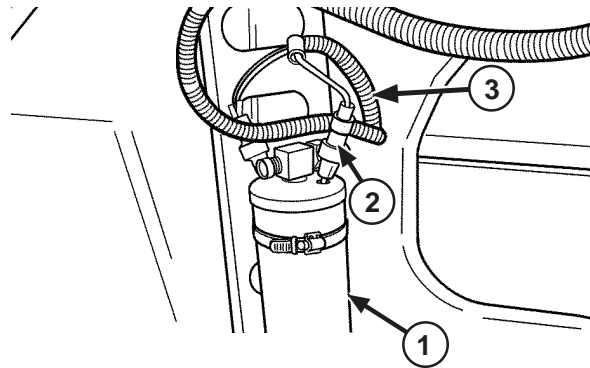


### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### c. Install Drier

#### **CAUTION**

DO NOT leave drier uncapped for more than just a few minutes as it will absorb moisture out of the air and become unstable. Failure to comply could result in damage to equipment.



**Figure 2-329. Pressure Switches**

- (1) Remove screw on caps from ports on top of receiver/drier (1).

#### **NOTE**

Pressure switch wire connectors are different and must be connected to the correct switch on the harness. If connector does not snap on with minimal pressure, try other switch.

- (2) Lubricate O-rings and attach pressure switches (2) to ports. Switches can be installed on either port.

#### **NOTE**

For ease of installation, pre-bend end of band clamps prior to inserting in slots on driver's side condenser mount angle.

- (3) Connect condenser harness (3) to pressure switches (2) on receiver/drier (1).

**2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).**

**d. Install Refrigerant Hoses**

**CAUTION**

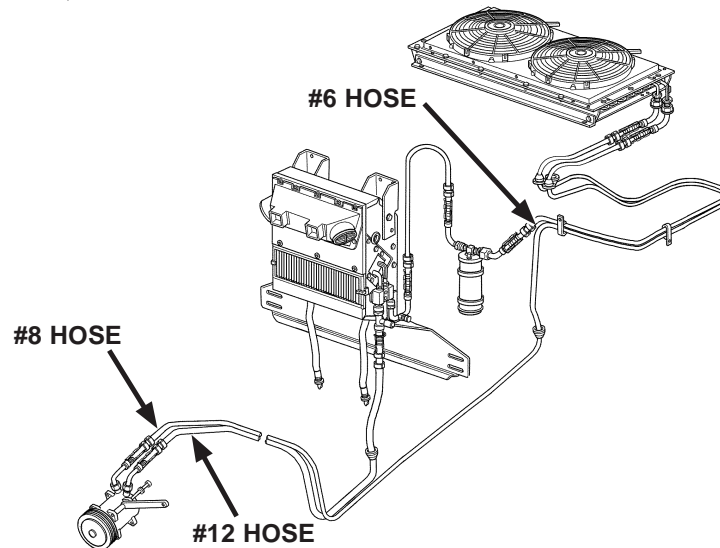
- When installing hoses, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
- Avoid routing hoses in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
- DO NOT remove caps from hoses until ready to charge air conditioner system. Failure to comply may cause contamination of system and damage to equipment.
- Keep all fittings capped until just prior to connecting hoses. Failure to comply may result in damage to equipment.
- Keep ends of hoses covered during routing to avoid contamination. Failure to comply may result in damage to equipment.
- Before connecting fittings, check to see that O-rings are present and undamaged. Failure to comply may result in damage to equipment.
- Lubricate O-rings with mineral oil just prior to connecting fittings to components or inserting fittings into hoses. Failure to comply may result in damage to equipment.

**NOTE**

- Route hoses according to the diagram shown. Follow existing routing and tie strap to secure. DO NOT connect any hoses at this time.
- Use hydraulic caps or tape closed ends of hoses to prevent debris from entering system during routing procedure.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-330. Refrigerant Hose Routing**

- (1) Trim two grommets to achieve a snug fit around #6 hose and #12 hose.
- (2) Install grommets in forward holes in fender well. The #12 hose will go in the lower hole.
- (3) Trim two grommets to achieve a snug fit around #6 hose and #8 hose.
- (4) Install grommets in remaining holes in fender well. The #8 hose will go in the forward hole.
- (5) Compressor to condenser, #8 hose:
  - a. Route hose through grommet in fender well and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
- (6) Evaporator to compressor, #12 hose:
  - a. Route hose through grommet and forward along frame rail. Continue forward and outboard of parking brake linkage and up into engine compartment near oil filter and dipstick.
  - b. Route both #8 and #12 hoses over engine and behind air intake duct to passenger side of engine. Continue forward to compressor.

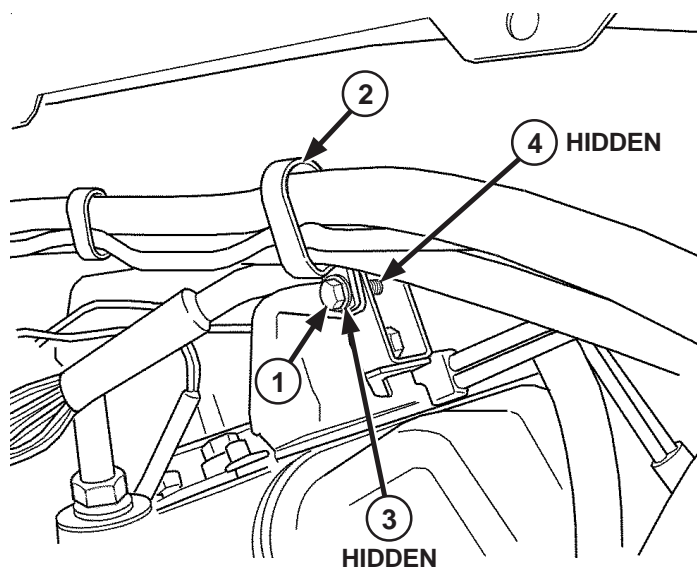
2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

**CAUTION**

Avoid high heat surfaces, sharp edges, and moving parts of vehicle. Keep hoses tucked up high enough to prevent being snagged as vehicle travels over obstacles or brush. Failure to comply could result in damage to equipment.

Hoses should span no more than two feet without being secured. Failure to comply could result in damage to equipment.

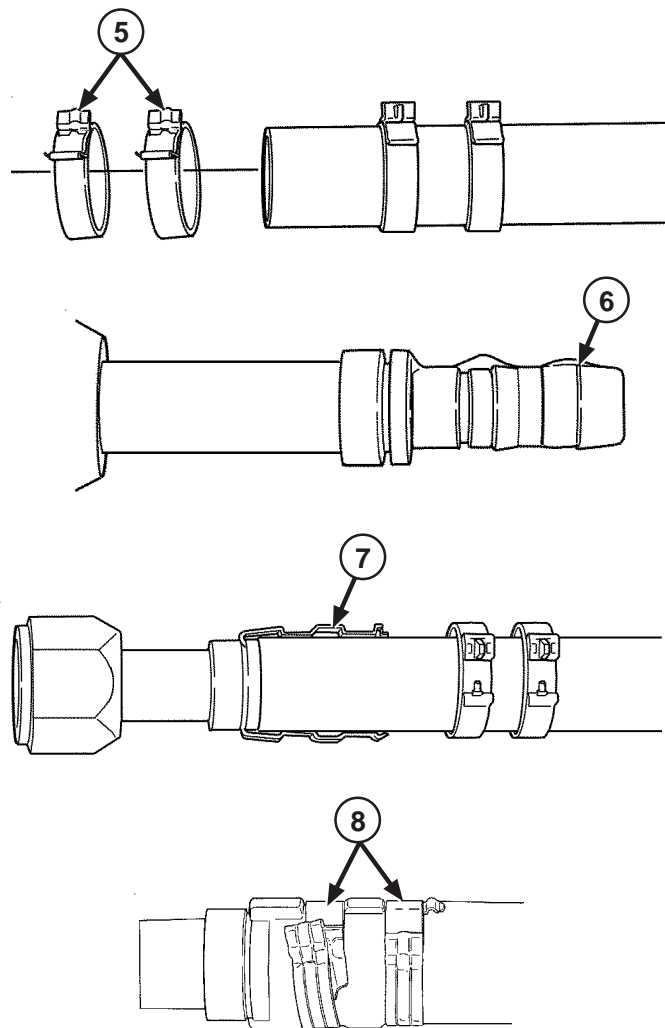


*Figure 2-331. P-Clamp*

- (7) Drill a 5/16 inch (.312) diameter hole in lower flange of fender well and secure #8 and #12 hoses with bolt (1), p-clamp (2), washer (3), and locknut (4).
- (8) Evaporator to drier, #6 hose:
  - a. Cut a six foot section from #6 hose. Route six foot section of #6 hose through front grommet in armor floor plate, across top of transmission to driver side frame rail. Continue forward on top of frame rail. Secure to outlet (female) fitting on drier.
- (9) Drier to condenser, #6 hose:
  - a. Route remaining length of #6 hose from inlet (male) fitting on drier up back wall of cab. Secure to #8 hose to condenser.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)

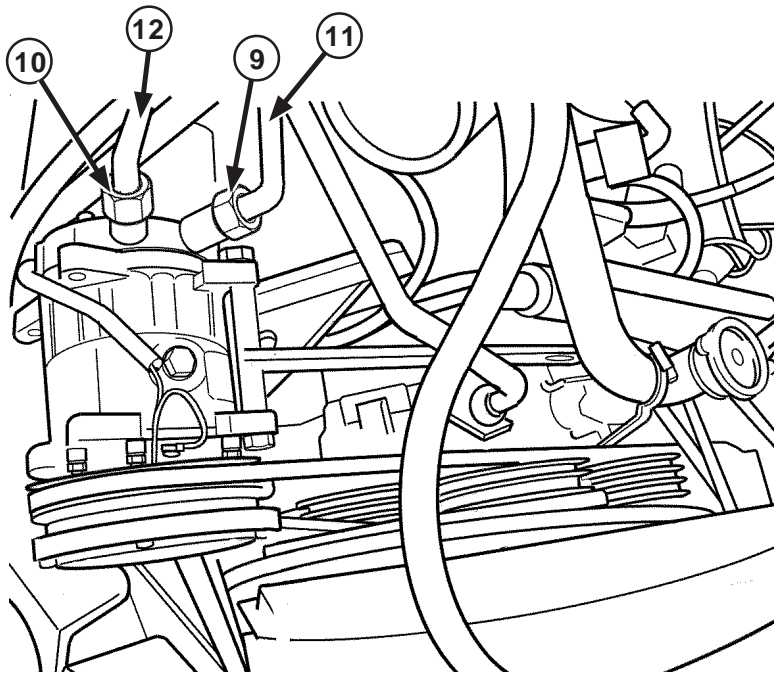


**Figure 2-332. Refrigerant Hose Preparation**

- (10) Prepare refrigerant hoses for connection:
  - a. Cut hose to proper length. Cut should be square to hose.
  - b. Slide two clips (5) onto cut end of hose. Both clips should be oriented in same direction.
  - c. Lubricate connection nipple (6).
  - d. Insert nipple fully into hose.
  - e. Snap the cage (7) over the hose and groove on nipple. The cage should rotate in groove.
  - f. Slide the clips over the cage and into the grooves on nipple.
  - g. Close the clips. The bump and lock latch (8) alignment must be square.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

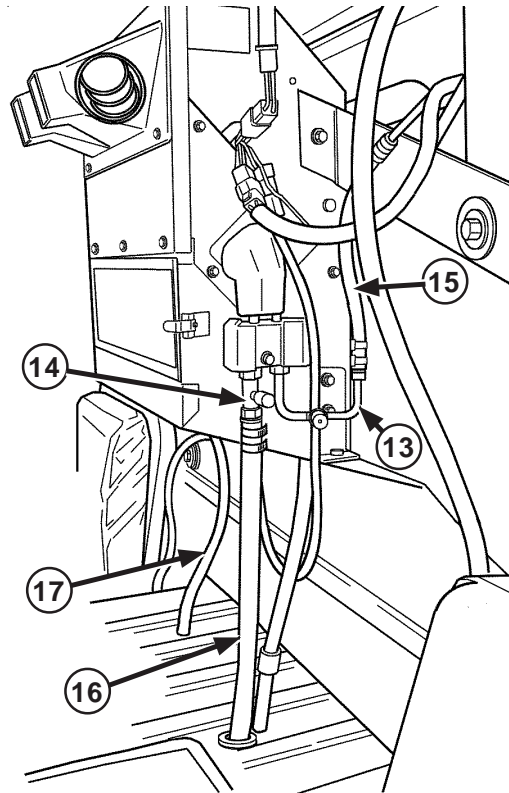


*Figure 2-333. Compressor Connection*

- (11) Connect Compressor.
  - a. Lubricate O-ring and install #8 female 45° or 90° fitting (9) on upper compressor connection.
  - b. Lubricate O-ring and install #12 female 90° fitting (10) on lower compressor connection.
  - c. Ensure hood of vehicle will close and air intake duct can be reinstalled over compressor.
  - d. Trim ends of #8 (11) and #12 (12) hoses to length and connect to fittings.
  - e. Tighten fittings.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-334. Evaporator Connection**

- (12) Connect Evaporator.
  - a. Lubricate O-ring and install #6 male stainless tube with two 90° bends (13) on rear expansion valve connection.
  - b. Cut hole in rear curtain for receiver/drier outlet tube and condenser wire harness.
  - c. Lubricate O-ring and install #12 male straight fitting (14) on forward expansion valve connection.
  - d. Trim ends of #6 (16) and #12 (16) hoses to length and connect to fittings.
  - e. Tighten fittings.
  - f. Cut drain hoses (17) to reach from bottom of evaporator unit to top of transmission tunnel. Install duck bill fittings onto drain hoses.
  - g. Attach drain hoses (17) to drain tubes on bottom of evaporator.
  - h. Attach duck bill fitting to drain hoses.
  - i. Push duck bill fittings into 11/16 inch holes on transmission housing.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

d. Install Refrigerant Hoses (Cont'd)

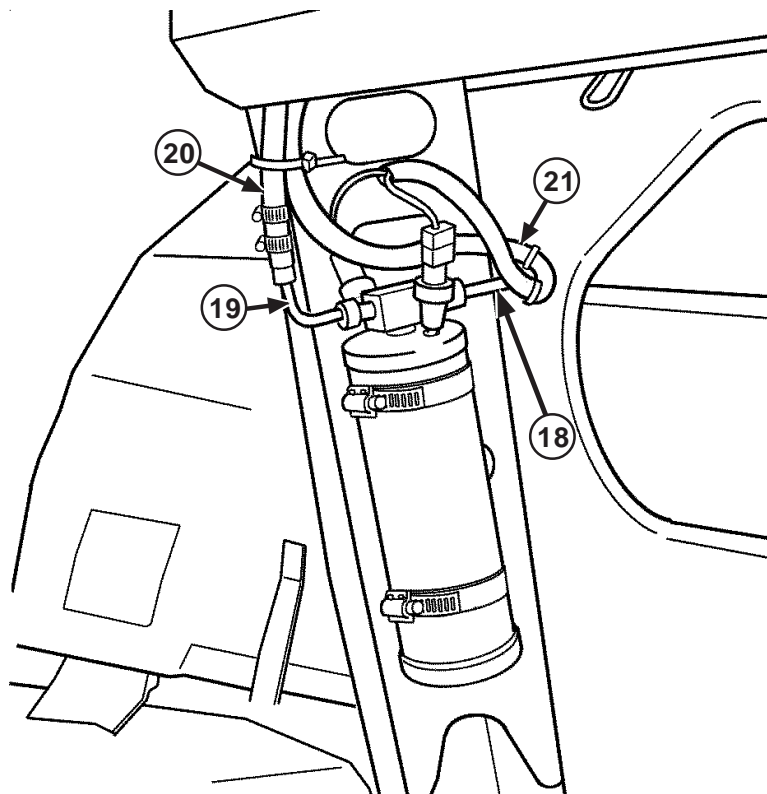


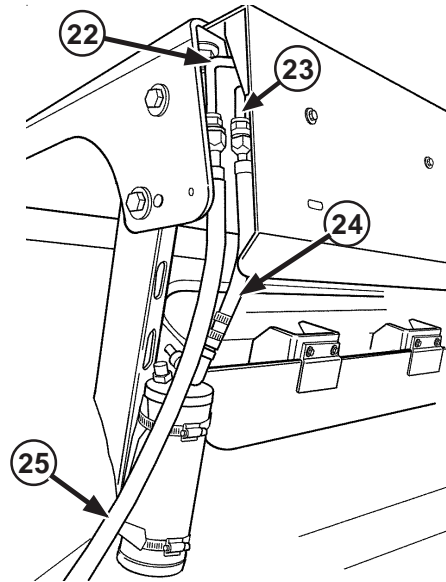
Figure 2-335. Drier Connection

- (13) Connect Drier.
  - a. Lubricate O-ring and install #6 male stainless tube (18) on drier outlet.
  - b. Lubricate O-ring and install #6 female 90° fitting (19) on drier inlet.
  - c. Trim ends of #6 hose (20) to condenser and connect to inlet (female) fitting.
  - d. Trim ends of #6 hose (21) to evaporator and connect to outlet (male) fitting.
  - e. Tighten fittings.



### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### d. Install Refrigerant Hoses (Cont'd)



**Figure 2-236. Condenser Connection**

- (14) Connect Condenser.
  - a. *Four-door vehicles only:* Lubricate O-ring and install #6 female straight fitting on outlet (smaller) fitting on condenser.
  - b. *Two-door vehicles only:* Lubricate O-ring and install #6 female 45° fitting (22) on outlet (smaller) fitting on condenser.
  - c. Lubricate O-ring and install #8 female straight fitting (23) to inlet (larger) fitting on condenser.
  - d. Trim ends of #6 hose (24) from drier and connect to right fitting.
  - e. Trim ends of #8 hose (25) from compressor and connect to left fitting.
  - f. Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.
- (15) Reinstall plywood panel on top of transmission tunnel by notching around drain hoses and refrigerant lines.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

e. Install Electrical Harnesses

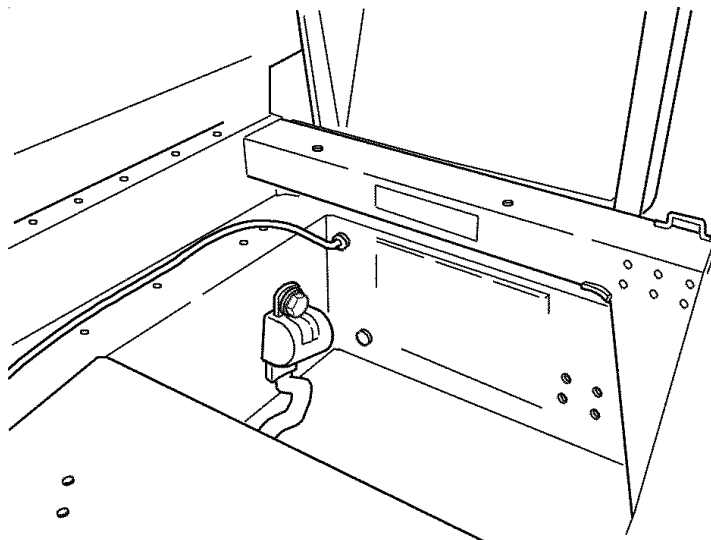


Figure 2-337. Routing

- (1) Compressor.
  - a. Connect clutch wire (RD-2-4160-0, black wire with white stripe) to compressor.
  - b. Route clutch wire over the engine along firewall and through hole in firewall adjacent to dash panel.
  - c. Connect clutch wire to control panel extension (black wire with white stripe).
- (2) Evaporator.
  - a. Route control panel harness (RD-2-4527-0) to mating connector on evaporator unit harness.
  - b. Connect extension harness (RD-4-5958-0) from drier to evaporator unit harness.
  - c. Connect power and ground harness to evaporator unit harness.
  - d. Route wires along edge of transmission tunnel under driver's side mat.
  - e. Secure harness to #12 refrigerant hose near top of transmission tunnel.
  - f. Cut notch in mat for hose and reinstall screws attaching mat to transmission tunnel.
  - g. *Four-door vehicles only:* Route wires forward along transmission tunnel, then through grommet and into battery.
  - h. *Two-door vehicles only:* Route wires through grommet and into battery box.

## 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### e. Install Electrical Harnesses (Cont'd)

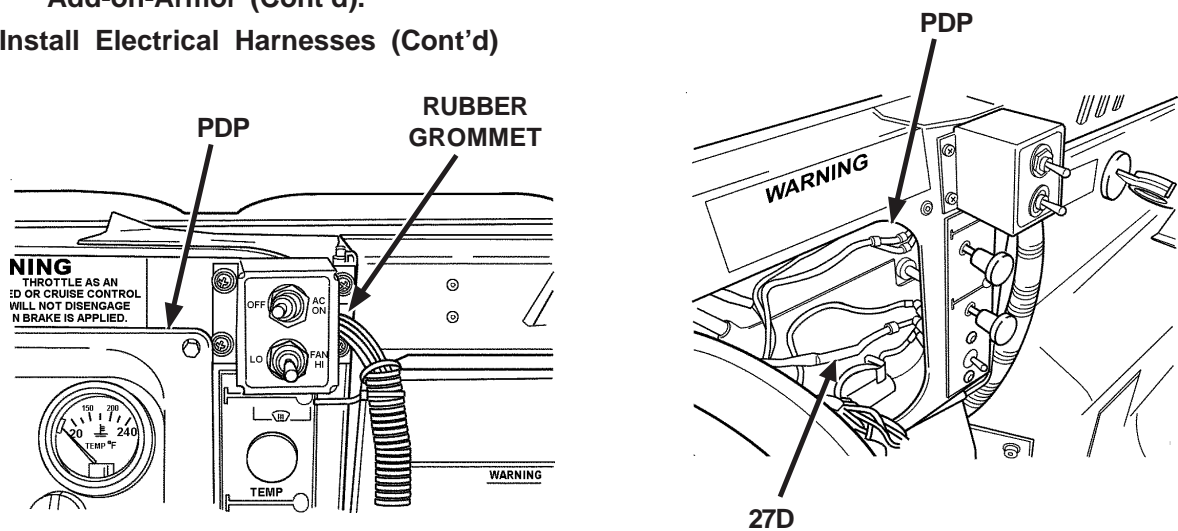


Figure 2-237.1 Electrical Harness Routing (Evaporator) Figure 2-238. Power Distribution Panel

- (3) Power Distribution Panel (PDP).
  - a. Remove screws and open (PDP).
  - b. Attach air conditioner control panel to dashboard with four screws. Make sure rubber grommet is in slot of metal box to protect wires.
  - c. Route short two-wire extension from control panel wire harness through gap under dash near heater switch and up into power distribution panel (PDP).
  - d. Locate ignition controlled power wire (center wire labeled "27D") supplying power to vehicle heater switch.
  - e. Remove larger end cap from T-splice connector and attach to wire 27D, approximately four inches from heater switch.
  - f. Remove smaller end cap from T-splice connector and attach white wire from control panel extension.
  - g. Close PDP and install screws.
- (4) Condenser.
  - a. Attach female end of completed harness to the male connector on the condenser unit harness.
  - b. Route harness down rear of cab, following refrigerant lines to drier.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### e. Install Electrical Harnesses (Cont'd)

#### NOTE

- Pressure switch wire connectors are different and must be connected to the correct switch. If it does not snap on with minimal pressure, try other switch.
- Where applicable, route and secure hoses or wires along existing paths.

(5) Drier.

Connect extension harness (RD-4-5958-0) to pressure switches on drier.

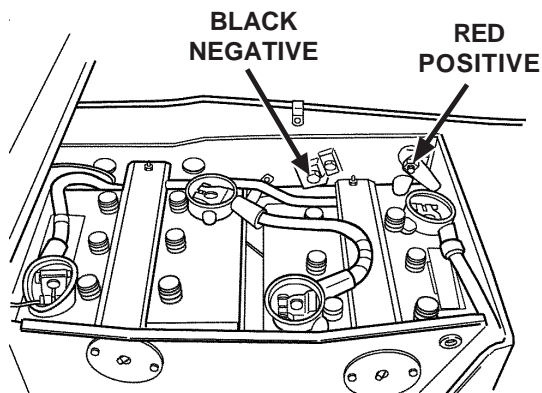


Figure 2-339. Battery Connection

(6) Battery Box.

- a. Attach **RED** wire of power and ground harness to POSITIVE terminal of battery.
- b. Attach **BLACK** wire of power and ground harness to screw on NEGATIVE ground shunt.
- c. Connect batteries.
- d. Check for 24 Volts DC.

#### f. Secure and Wrap Hoses and Harnesses

#### CAUTION

- When installing hydraulic hoses and electrical wiring, be sure to secure away from hot or moving parts. Failure to comply may result in damage to equipment.
  - Avoid routing hoses or wires in areas where chafing, punctures, or pinching may occur. Failure to comply may result in damage to equipment.
  - DO NOT remove caps from hoses until ready to charge air conditioner system. Failure to comply may cause contamination of system and damage to equipment.
  - Use cable ties as necessary to secure hoses or wires away from moving or hot parts. Failure to comply could result in damage to equipment.
- (1) Install around refrigerant lines and compressor harness in engine compartment.
  - (2) Secure with nylon ties.

## 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

### g. Air Distribution Ducting

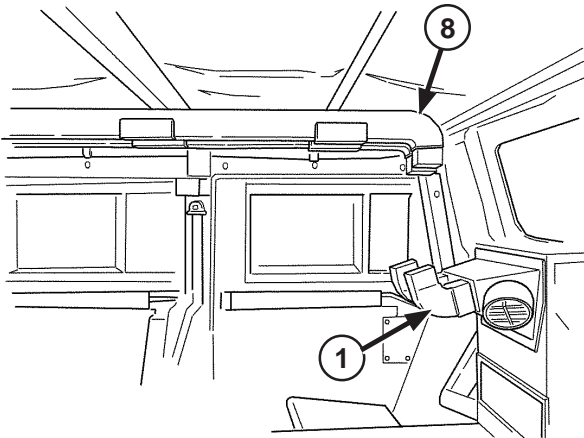


Figure 2-340. Front Ducting

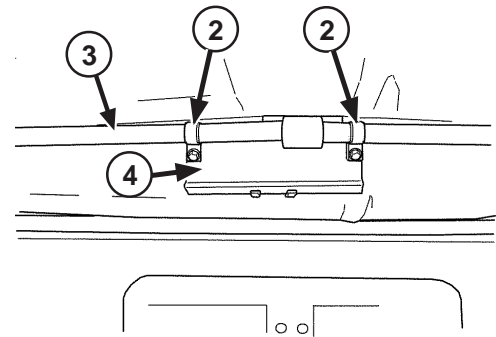


Figure 2-341. P-Clamps

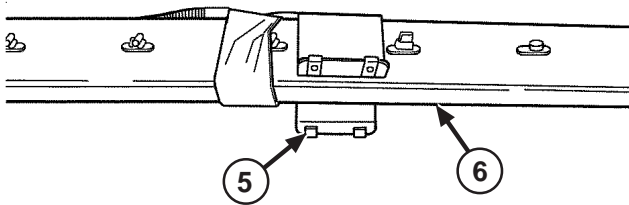


Figure 2-342. Attaching Ducting

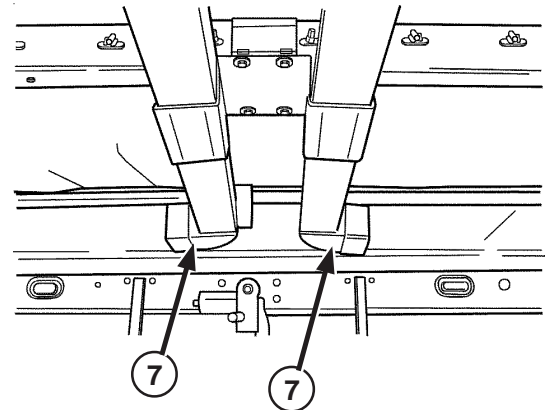


Figure 2-343. 90° Elbows

- (1) For air distribution ducting to front:
  - a. Attach female end of 90° elbow (1) to plenum with male end pointing upward.
  - b. Position p-clamps (2) over rear canvas strut (3).
  - c. Attach rear bracket (4) to p-clamps (2).
  - d. Using support brackets (5), clamp ducting to b-pillar (6).
  - e. Attach 90° elbows (7) to forward end of ducts to turn air toward driver and front passenger.
  - f. Attach 90° elbows (8) to rear end of ducts with elbows (8) facing downward toward elbows (1).

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

g. Air Distribution Ducting (Cont'd)

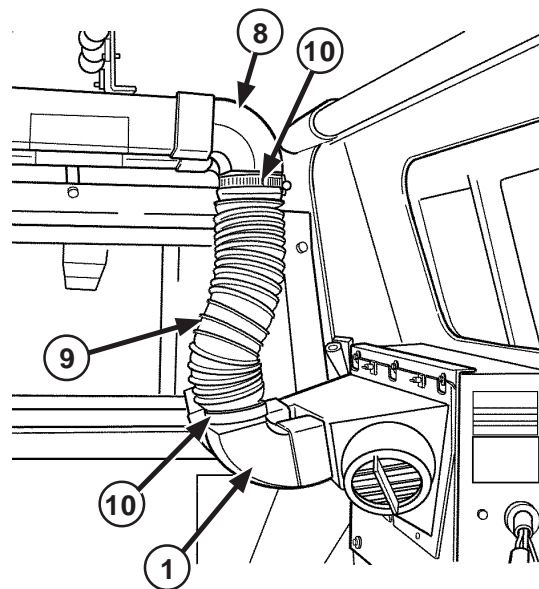


Figure 2-344. Flex Hose

- (2) Cut enough flex hose (9) to connect elbow (1) and elbow (8).
- (3) Pre-bend band clamp and flex hose into 2.5 inch square.
- (4) Attach flex hose (9) to elbow (1) and elbow (8) with band clamp (10).
- (5) When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

### 2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door with O'Gara Hess Add-on-Armor (Cont'd).

#### g. Air Distribution Ducting (Cont'd)

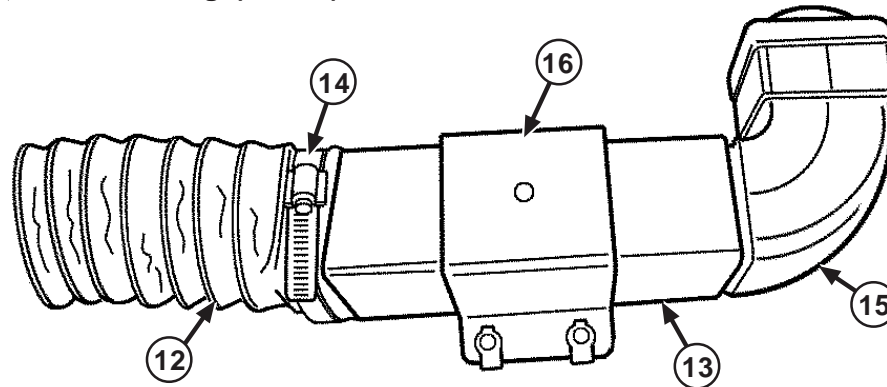


Figure 2-345. B-Pillar Clamps

- (6) Four-Door Vehicles With Ring Turret Only:
  - a. Pre-bend band clamps and flex hose into 2.5 inch square.
  - b. Attach flex hose (12) to plenum (13) with band clamps (14). Do not overtighten.
  - c. Cut two eight inch sections of square ducting.
  - d. Attach 90° elbows (15) with louvers to one end of each eight inch section.
  - e. Apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.
  - f. Attach three inch flex hose (12) to end of duct.
  - g. Secure duct to clamps with screws.
  - h. Attach ducts with louvers in desired locations with b-pillar clamps (16) and screws.
- (7) If Air Distribution to Front is Not Possible or Desired:
  - a. Cut off female end of 90° elbows so the elbows fit over the square outlets on the plastic plenum.
  - b. Attach 90° elbows to plenum.
  - c. When air delivery is acceptable, apply a generous quantity of PVC cement (item 3, Appendix D) to the mating surfaces and secure with screws.

2-2.3 Installation of Air Conditioning Kit to M1097A2 Two-Door and with O'Gara Hess Add-on-Armor (Cont'd).

h. Prepare System for Use

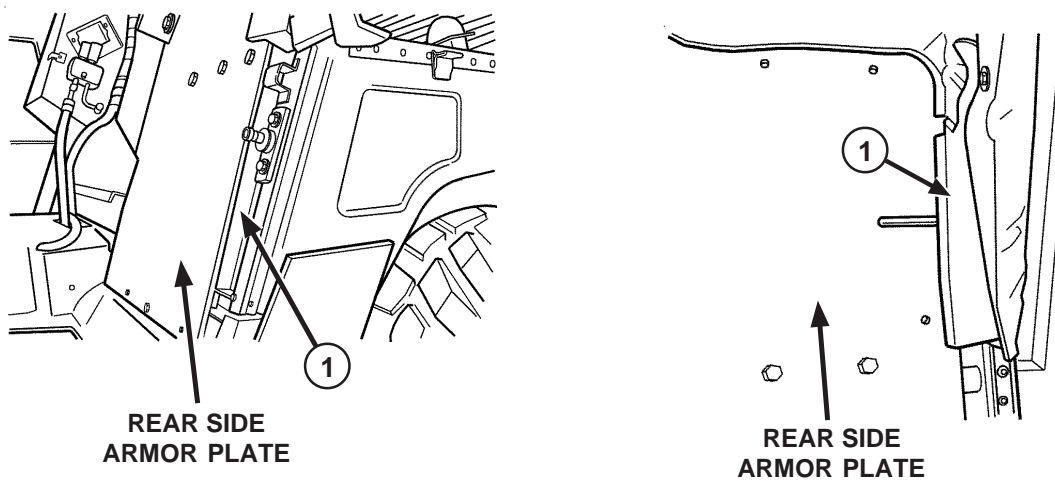


Figure 2-346. Rear Side Armor Plates

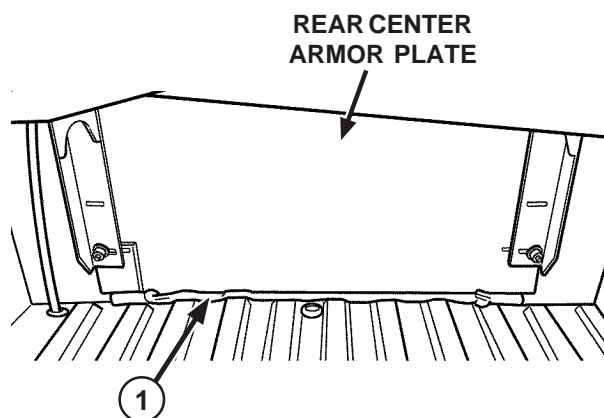


Figure 2-347. Rear Center Armor Plate

- (1) Using foam (1) and duct tape, seal as many cab air leaks as possible.
- (2) Purge and charge air conditioning system (para 4-14).



## Section III. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

### 2-3 General.

Table 2-1 (Operator PMCS Table) has been provided so you can keep your equipment in good operating condition and ready for its primary mission.

#### 2-3.1 Warnings, Cautions, and Notes.

Always observe the **WARNINGS**, **CAUTIONS**, and **NOTES** appearing in your PMCS table. Warnings and Cautions appear before applicable procedures. You must observe **WARNINGS** to prevent serious injury to yourself and to others. You must observe **CAUTIONS** to prevent your equipment from being damaged. You must observe **NOTES** to ensure procedures are performed properly.

#### 2-3.2 Explanation of Table Entries:

##### 2-3.2.1 Item No. Column.

Numbers in this column are for reference. When completing DA Form 2404 (Appendix A) or computerized DD Form 5988E (Appendix A), include the item number for the checks/service indicating a fault. Item numbers also appear in the order that you must do checks and services for the intervals listed.

##### 2-3.2.2 Interval Column.

This column tells you when you must do the procedure in the procedure column. "BEFORE" procedures must be done before you operate the HMMWV with Air Conditioning Kit installed for its intended mission. "DURING" procedures must be done during the time you are operating the air conditioner for its intended mission. "AFTER" procedures must be done immediately after shutting down the air conditioner. Perform "WEEKLY" procedures at the listed interval.

##### 2-3.2.3 Location, Item to Check/Service Column.

This column lists the location and the item to be checked or serviced. The item location is underlined.

##### 2-3.2.4 Procedure Column.

This column gives the procedure for checking or servicing the item listed in the location, item to check/service column. You must perform the procedure to know if the air conditioner is ready or available for its intended mission or operation. You must do the procedure at the time stated in the interval column.

##### 2-3.2.5 Not Fully Mission Capable if: Column.

Information in this column tells you what faults will keep your air conditioner from being capable of performing its primary mission. If you make checks or services that show faults listed in this column, do not operate the air conditioner.

##### 2-3.2.6 Reporting and Correcting Deficiencies.

If Air Conditioning Kit does not perform as required, refer to Chapter 3, Operator Maintenance, Section I, Operator Troubleshooting Procedures.

### 2-3.3 Other Table Entries.

Be sure to observe all special information and notes that appear in your table.

### 2-3.4 Special Instructions.

Preventive maintenance is not limited to performing the checks and services listed in the PMCS table. Covering unused receptacles, stowing unused accessories, and other routine procedures such as equipment inventory, cleaning components, and touch up painting are not listed in the table. These are things you should do any time you see that they need to be done. If a routine check is listed in the PMCS table, it is because experience has shown that problems may occur with this item. Take along tools and cleaning cloths needed to perform the required checks and services. Use the following information to help identify potential problems before and during checks and services. Use the information in the following paragraphs to help you identify problems at any time.

#### **WARNING**

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. Do not smoke or use near open flame or excessive heat. Failure to observe this warning could result in severe injury or death to personnel.

#### **CAUTION**

Keep cleaning solvents, gasoline and lubricants away from rubber or soft plastic parts. Failure to comply could result in damage to equipment.

- a. Keep it clean. Dirt, grease, and oil get in the way and may cover up a serious problem. Use drycleaning solvent to clean metal surfaces.
- b. Use soap and water to clean rubber or plastic parts and material.
- c. Check all bolts, nuts, and screws to make sure they are not loose, missing, bent, or broken. Do not try to check them all with a tool, but look for chipped paint, bare metal, or rust around bolt heads. If you find one loose, tighten it or report it to unit level of maintenance.
- d. Inspect welds. Look for loose or chipped paint, rust, or gaps where parts are welded together. If a broken weld is found, report it to unit level of maintenance.
- e. Inspect electrical wires, connectors, terminals, and receptacles. Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors and make sure wires are in good condition. Examine terminals and receptacles for serviceability. If deficiencies are found, report them to unit level of maintenance.
- f. Inspect hoses and fluid lines. Look for wear, damage, and leaks. Make sure that clamps and fittings are tight. Wet spots and stains around a fitting or connector can mean a leak. If a leak comes from a loose connector or if something is broken or worn out, report it to unit level of maintenance.

**2-3.4 Special Instructions (Cont'd).****WARNING**

- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioning Kit. Failure to comply may result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioning Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply may result in serious injury or death to personnel.

**CAUTION**

- Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.
- Air conditioner current draw is approximately 20 amps. At minimum, a 100 amp alternator is required for vehicles with an air conditioner and communications equipment. Verify the alternator has a rating of 100 amps or higher. Upgrade alternator as necessary. Failure to comply may result in damage to equipment.

**NOTE**

- If alternator will be upgraded to allow for air conditioning installation, the following tasks can be performed concurrently:
  1. Removal and replacement of belts for alternator and A/C compressor.
  2. Disconnecting/reconnecting battery.
  3. Routing and attaching power cable from alternator to battery compartment.
  4. Checking power steering, water pump, and crankshaft pulleys for wear and replacing if needed. Uneven wear will prevent proper belt tensioning.
- The Air Conditioning Kits are designed to fit several configurations. Not all parts included in the kits will be used on all applications, and some installations will require modification to ensure fit.

Table 2-1. Operator Preventive Maintenance Checks and Services (PMCS) for Air Conditioning Kit

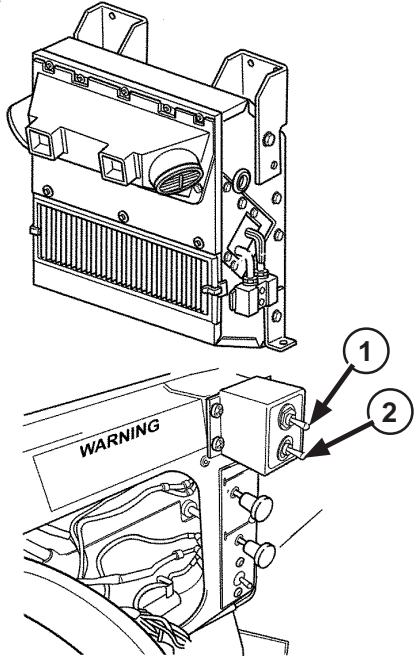
Item No.	Interval	Location	Procedure	Not Fully Mission Capable If:
		Item To Check/Service		
1	During	<b>AIR CONDITIONING SYSTEM</b>	<p>Run system for 5 minutes. Check hoses for wet/cold spots.</p>  <p><b>Air Conditioner Unit:</b> Switch fan toggle (1) to ON and adjust fan speed knob (2) to control air flow.</p>	<p>Notify unit maintenance.</p> <p>No air or no cold air coming from unit. Notify unit maintenance.</p>

Table 2-1. Operator Preventive Maintenance Checks and Services (PMCS) for Air Conditioning Kit

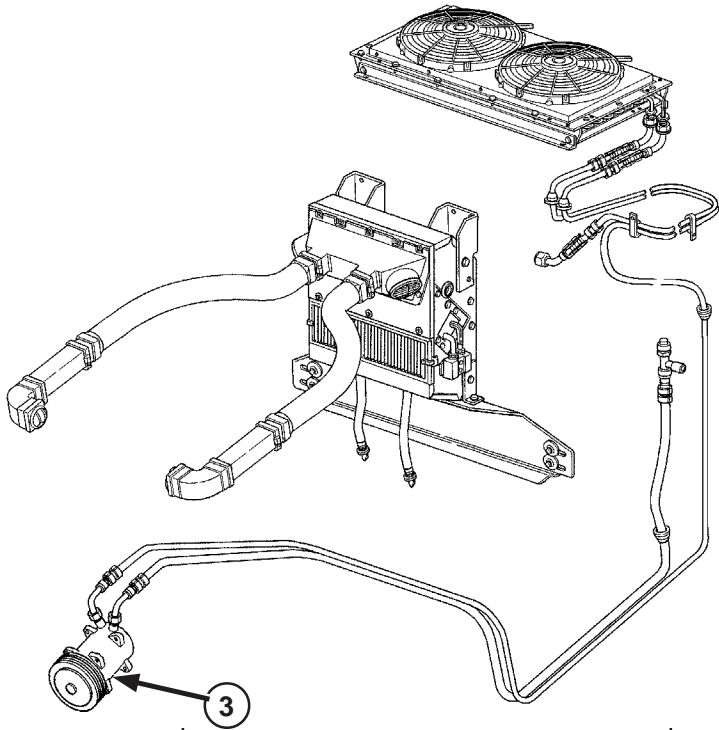
Item No.	Interval	Location	Procedure	Not Fully Mission Capable If:
		Item To Check/Service		
2	During		<p><b>Receiver/Drier:</b> Inspect view window on drier for bubbles.</p>  <p><b>Compressor:</b> Check compressor (3) for excessive noise.</p>	Notify unit maintenance.

Table 2-1. Operator Preventive Maintenance Checks and Services (PMCS) for Air Conditioning Kit

Item No.	Interval	Location	Procedure	Not Fully Mission Capable If:
		Item To Check/Service		
3	After	AIR CONDITION SYSTEM	<p>Run system for 5 minutes.</p> <p><b>Compressor:</b> Check for excessive noise. Check belts for tension or excessive wear.</p> <p>Check for wet or cold spots on connections or hoses.</p> <p><b>Condenser:</b> Clean dirt/bugs/leaves from coils. Check inlet/outlet for obstructions or damage. Inspect all wiring and connections for damage or excessive wear.</p> <p><b>Drier:</b> Check for wet or cold spots on connections or hoses.</p>	<p>Notify unit maintenance.</p> <p>Notify unit maintenance.</p> <p>Notify unit maintenance.</p> <p>Notify unit maintenance.</p>
4	After	OVERALL VIEW	<p>Check Air Conditioning Kit for obvious damaged or missing parts that would impair operation.</p>	<p>Damaged, missing parts that impair operation.</p>

## **Section IV. OPERATION UNDER USUAL CONDITIONS**

### **2-4 Assembly and Preparation for Use.**

The kit is installed on the vehicle. Assembly or preparation instructions are included in this TB. For operation of the vehicle, refer to TM 9-2320-280.

### **2-5 Operating Instructions.**

#### **2-5.1 Cab Mounted Air Conditioner Unit.**

Usual conditions for operating the air conditioner unit imply the unit has been inspected and is properly charged.

- a. Vehicle engine must be running prior to operating air conditioner unit.
- b. Switch fan toggle to on and adjust air speed with control knob.

### **2-6 Preparation for Movement.**

The kit is installed on the vehicle. No preparation for movement is required beyond that for moving the vehicle.





## Section V. OPERATION UNDER UNUSUAL CONDITIONS

### 2-7 Unusual Conditions.

Same operation under unusual conditions applies to the vehicle with the Air Conditioner Kit. Refer to TM 9-2320-280.



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**CHAPTER 3  
OPERATOR MAINTENANCE**

<b>Subject Index</b>	<b>Page</b>
Section I. Operator Troubleshooting Procedures .....	3-3
3-1 General .....	3-3
3-2 Explanation of Columns .....	3-3
3-3 Operator Troubleshooting Symptom Index .....	3-5
Table 3-1. Operator Troubleshooting .....	3-7
Section II. Maintenance Procedures .....	3-9
3-4 Operator Maintenance .....	3-9



## Section I. OPERATOR TROUBLESHOOTING PROCEDURES

### 3-1. General.

- a. Refer to TM 9-2320-280 for vehicle troubleshooting.
- b. This section provides information for identifying and correcting malfunctions that you may find while operating and maintaining the Air Conditioning Kit.
- c. The Troubleshooting Symptom Index lists common malfunctions which may occur and refers you to the proper page in Table 2 for a troubleshooting procedure.
- d. Before performing troubleshooting, read and follow all safety instructions found in the warning summary at the front of this manual.
- e. This section cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by the listed corrective actions, notify your supervisor.
- f. **When Troubleshooting a Malfunction:**
  - (1) Locate the symptom or symptoms in the index that best describes the malfunction. If the appropriate symptom is not listed, notify your supervisor.
  - (2) Turn to the page in Table 3-1 where the operator troubleshooting procedures for the malfunction in question are described. Headings at the top of each page show how each troubleshooting procedure is organized: Malfunction, Test or Inspection (in step number order), and Corrective Action.
  - (3) Perform each step in the order listed until the malfunction is corrected and the item being inspected is operational. DO NOT perform any maintenance task unless the troubleshooting procedure tells you to do so.

### 3-2 Explanation of Columns.

The columns in Table 3-1 are defined as follows:

- a. **Malfunction.** A visual or operational indication that something is wrong with the equipment.
- b. **Test or Inspection.** A procedure to isolate the problem in a system or component.
- c. **Corrective Action.** A procedure to correct the problem.



**3-3 Operator Troubleshooting Symptom Index**

**Troubleshooting  
Procedure Page**

AIR CONDITIONER SYSTEM

Air Conditioner System Does Not Work .....	3-7
Air Conditioner Unit Stops Cooling .....	3-7





Table 3-1. Operator Troubleshooting

---

**MALFUNCTION****TEST OR INSPECTION****CORRECTIVE ACTION**

---

***AIR CONDITIONER SYSTEM*****1. AIR CONDITIONER SYSTEM DOES NOT WORK**

- Step 1. Is unit switch in ON position?  
If no, switch unit to ON.  
If yes, go to step 2.
- Step 2. Are batteries charged?  
If no, charge batteries in accordance with TM 9-2320-280.  
If yes, notify unit maintenance.

**2. AIR CONDITIONER UNIT STOPS COOLING**

- Step 1. Is the refrigerant charge low in the system?  
(sight glass on dryer is clear or shows oil streaks)  
If no, go to step 2.  
If yes, notify unit maintenance.
- Step 2. Is there air and/or moisture in the system?  
(sight glass is clear or shows some bubbles)  
If no, go to step 3.  
If yes, notify unit maintenance.
- Step 3. Are refrigerant hoses kinked or restricted? Are there wet or cold spots on the hoses?  
If no, go to step 4.  
If yes, notify unit maintenance.
- Step 4. Is evaporator low pressure switch connected to one white and one brown wire?  
If no, connect one white and one brown wire to evaporator low pressure switch.  
If yes, go to step 5.
- Step 5. Is there excessive noise at the compressor?  
If no, go to step 6.  
If yes, notify unit maintenance.
- Step 6. Is the system overcharging?  
(sight glass has bubbles)  
If no, notify unit maintenance.  
If yes, notify unit maintenance.



## Section II. MAINTENANCE PROCEDURES

### 3-4 Operator Maintenance.

Refer to TM 9-2320-280 for vehicle maintenance instructions. Operator maintenance functions for the kit is limited to those authorized in the MAC and described in Table 2-1, Operator Preventive Maintenance Checks and Services (PMCS) for Air Conditioning Kit.



## CHAPTER 4 UNIT MAINTENANCE

Subject Index	Page
Section I. Repair Parts List (RPL); Test, Measurement, and Diagnostic Equipment (TMDE); and Support Equipment .....	4-3
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4-4 Service Upon Receipt of Materiel .....	4-5
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4-5 Lubrication (Not Applicable to Kits).....	4-7
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4-6 General .....	4-9
4-6.1 Warnings, Cautions, and Notes .....	4-9
4.6.2 Explanation of Table Entries .....	4-9
4-6.3 Other Table Entries .....	4-9
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4-8 Unit Troubleshooting Symptom Index .....	4-13
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4-9 Hoses and Fittings .....	4-20
4-10 Expansion Valves .....	4-20
4-11 Expansion Tubes .....	4-20
4-12 Receiver/Drier and Accumulator .....	4-21
4-13 Compressor and Clutch .....	4-21
4-14 Air Conditioning System Servicing .....	4-22
4-15 Air Conditioning Unit Repair .....	4-26
4-16 Condenser Repair .....	4-32



**Section I. REPAIR PARTS LIST (RPL); TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND SUPPORT EQUIPMENT**

**4-1 Common Tools and Equipment.**

For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your equipment.

**4-2 Repair Parts List, TMDE, and Support Equipment.**

Repair Parts List (RPL), TMDE, and Support Equipment for the Air Conditioning Kit are listed in Appendix B and Appendix C.

**4-3 Repair Parts.**

Repair parts for the Air Conditioner Kit are listed and illustrated in Appendix C. Mandatory replacement parts for the Air Conditioner Kit are listed in Appendix F.





## Section II. SERVICE UPON RECEIPT

### 4-4 Service Upon Receipt of Materiel.

If Air Conditioning Kit is already installed on the vehicle, the normal Service Upon Receipt of the vehicle is sufficient and no separate Service Upon Receipt is required by Unit for the Air Conditioner Kit.



### **Section III. UNIT LUBRICATION**

#### **4-5 Lubrication (Not Applicable to Kits).**

No lubrication is required on the Air Conditioner Kits.



## Section IV. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

### 4-6 General.

Table 4-1 (Unit PMCS table) has been provided so you can keep your equipment in good operating condition and ready for its primary mission.

#### 4-6.1 Warning, Cautions, and Notes.

Always observe the **WARNINGS**, **CAUTIONS**, and **NOTES** appearing in your PMCS table. Warnings and Cautions appear before applicable procedures. You must observe **WARNINGS** to prevent serious injury to yourself and others. You must observe **CAUTIONS** to prevent your equipment from being damaged. You must observe **NOTES** to ensure procedures are performed properly.

#### 4-6.2 Explanation of Table Entries.

**4-6.2.1 Item No. Column.** Numbers in this column are for reference. When completing DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DD Form 5988E (Equipment Inspection and Maintenance Worksheet), include the item number for the checks/service indicating a fault. Item numbers also appear in the order that you must do checks and services for the intervals listed.

**4-6.2.2 Interval Column.** This column tells you when you must do the procedure in the Procedure column. Perform procedures such as Monthly or Quarterly at the listed calendar interval. Perform procedures designated by number of hours when the equipment has been operated for that many hours.

**4-6.2.3 Item to be Checked or Serviced Column.** This column lists the item to be checked or serviced.

**4-6.2.4 Procedure Column.** This column gives the procedure for checking or servicing the item listed in the location, item to check/service column. You must perform the procedure to know if the vehicle is ready or available for its intended mission or operation. You must do the procedure at the time stated in the interval column.

**4-6.2.5 Not Fully Mission Capable if: Column.** Information in this column tells you what faults will keep your equipment from being capable of performing its primary mission. If you make checks or services that show faults listed in this column, do not operate the equipment.

**4-6.2.6 Reporting and Correcting Deficiencies.** If Air Conditioning Kit does not perform as required, refer to Chapter 4, Section V, Unit Troubleshooting.

**4-6.3 Other Table Entries.** Be sure to observe all special information and notes that appear in your table.

**4-6.4 Special Instructions.** Preventive maintenance is not limited to performing the checks and services listed in the PMCS table. Covering unused receptacles, stowing unused accessories, and other routine procedures such as equipment inventory, cleaning components, and touch up painting are not listed in the table. If a routine check is listed in the Unit PMCS Table (Table 4-1), it is because experience has shown that problems may occur with this item. Take along tools and cleaning cloths needed to perform the required checks and services.



**Table 4-1. Unit Preventive Maintenance Checks and Services (PMCS) for Air Conditioning Kit**

Item No.	Interval	Location	Procedure	Not Fully Mission Capable If:			
		Item To Check/ Service					
1	Monthly	AIR CONDITIONER UNIT	<b>Compressor:</b> Check for excessive noise	Excessive noise present.			
			Check clutch pulley for excessive wear and serviceability.	Clutch pulley worn or fails to turn compressor shaft.			
			Run air conditioning system for 5 minutes.	Air from ducts is less than 20° below ambient temperature.			
			Check belts for tension.	Belts worn or loose. More than 120 lbs tension.			
			2	Monthly	AIR CONDITIONER UNIT	<b>Condenser:</b> Clean debris from coils.	50% or greater obstruction. Inlet/outlet damaged.
						Check inlet/outlet for obstructions or damage.	
3	Semi-Annual	AIR CONDITIONER UNIT	<b>Compressor:</b> Inspect shaft seal for leakage.	Seal leaking or damaged.			
			Inspect and tighten mounting brackets and bolts.	Brackets or mounting bolts damaged or missing.			
4	Semi-Annual	AIR CONDITIONER UNIT	Check clutch to crankshaft drive pulley alignment.	Not aligned.			
			Inspect all fittings/clamps/hoses for damage or wear.	Damaged or missing.			
5	Semi-Annual	AIR CONDITIONER UNIT	Check fan clutch for proper operation.	Does not engage when unit is turned on.			
6	Semi-Annual	AIR CONDITIONER UNIT	Inspect all wiring and connectors for excessive damage or failure to connect.	Excessive damage or failure to connect.			





## Section V. UNIT TROUBLESHOOTING

### 4-7 General.

Refer to TM 9-2320-280 for vehicle troubleshooting procedures and engine troubleshooting procedures. In this section a symptom index for the kit lists faults associated with kit operation. Each malfunction listed on the Symptom Index includes a reference to the troubleshooting figure that contains a chart that will help you determine probable causes and corrective actions to take. The Symptom Index cannot list all faults that may occur, nor all the test or inspections and corrective actions. If a malfunction is not listed or cannot be corrected by listed corrective actions, notify next higher level of maintenance for assistance.

### 4-8 Unit Troubleshooting Symptom Index

<b>Troubleshooting Symptom</b>	<b>Procedure (Page)</b>
Condenser Malfunction or System Overcharge/Air in System.....	4-15
Thermostatic Switch Malfunction .....	4-16
Low Refrigerant Charge in the System .....	4-16
Expansion Valve Stuck Closed or Plugged .....	4-17
Expansion Valve Stuck Open .....	4-17
System High Pressure Side Restriction .....	4-18
Compressor Malfunction .....	4-18

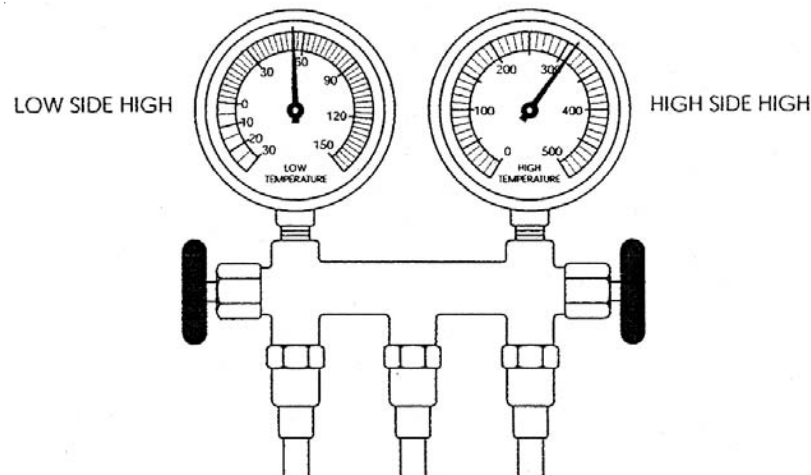


## UNIT TROUBLESHOOTING

### NOTE

The following procedures will be listed in accordance to the gauge reading and the corresponding malfunction.

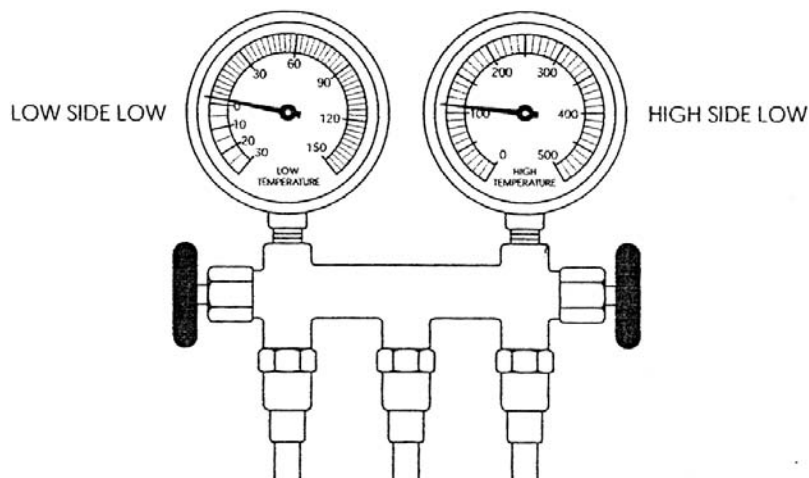
#### 1. CONDENSER MALFUNCTION OR SYSTEM OVERCHARGE/AIR IN SYSTEM



- Step 1. Does gauge read numbers as shown?  
 If yes, inspect and clean condenser.  
 If no, go to step 2.
- Step 2. Is the high pressure above 300 psi?  
 If yes, go to step 3.  
 If no, go to step 4.
- Step 3. Is compressor clutch engaging?  
 If yes, go to step 4.  
 If no, see clutch repair, Section VI. Unit Maintenance Procedures, paragraph 4-13.
- Step 4. Is the high pressure liquid line cool?  
 If yes, drain and flush system and recharge.  
 If no, go to step 5.
- Step 5. Check resting pressure, is pressure high according to temp/pressure chart?  
 If yes, air is in the system - drain and flush system and recharge.  
 If no, replace condenser.

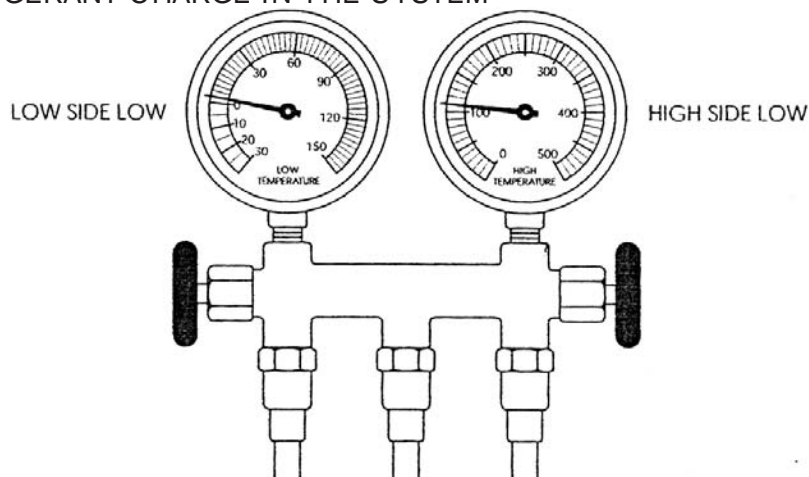
## UNIT TROUBLESHOOTING (Cont'd)

### 2. THERMOSTATIC SWITCH MALFUNCTION



- Step 1. Does gauge read as shown?  
If yes, replace thermostatic switch.  
If no, go to low refrigerant charge in system.

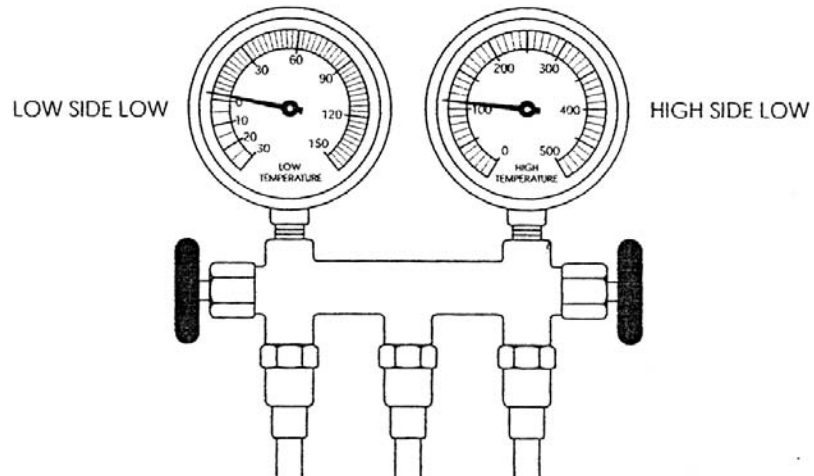
### 3. LOW REFRIGERANT CHARGE IN THE SYSTEM



- Step 1. Does gauge read as shown?  
If yes, go to step 2.  
If no, go to step 3.
- Step 2. Are there bubbles in the sight glass and air from the vents only slightly cool?  
If yes, check for leaking connections or hoses and add refrigerant to the system.
- Step 3. Are there cool spots in the high pressure line or receiver drier?  
If yes, replace component with cool spot.  
If no, Check TXV function.

**UNIT TROUBLESHOOTING (Cont'd)**

**4. EXPANSION VALVE STUCK CLOSED OR PLUGGED**

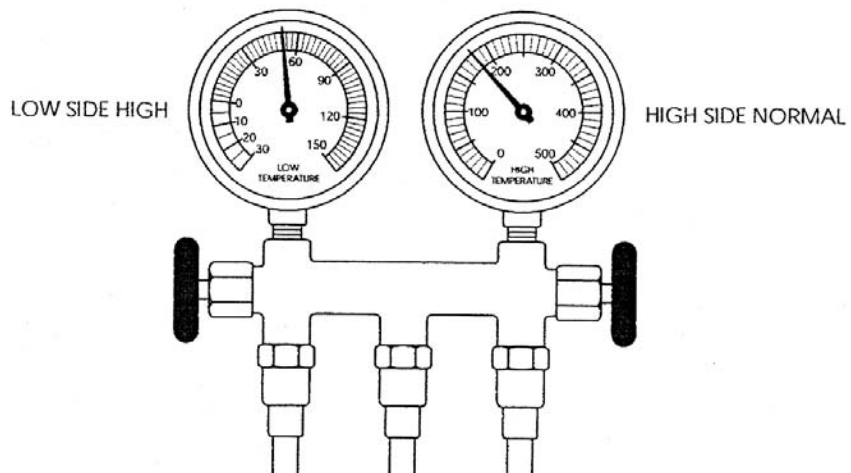


Step 1. Does gauge read as shown?

If yes, disconnect inlet hose fitting from the expansion valve and clean the screen.

If no, expansion valve is stuck closed.

**5. EXPANSION VALVE STUCK OPEN**



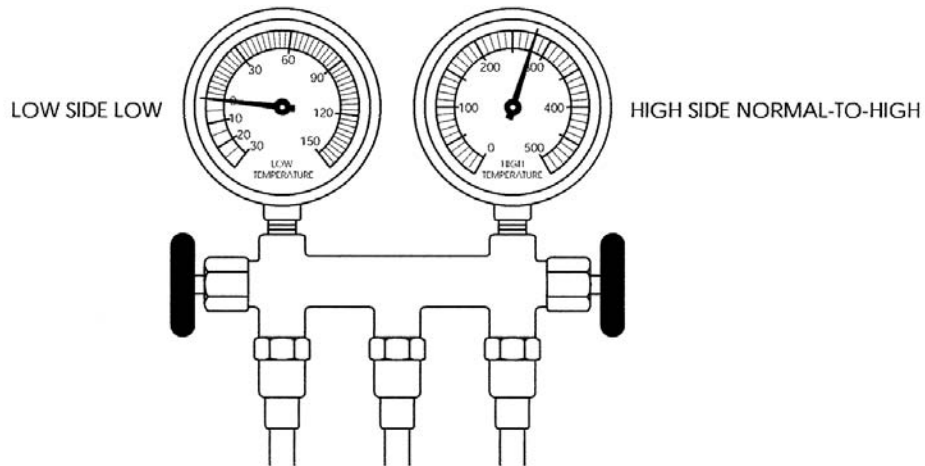
Step 1. Is frost present on suction line of compressor?

If yes, replace expansion valve.

If no, go to compressor trouble shooting.

**UNIT TROUBLESHOOTING (Cont'd)**

**6. SYSTEM HIGH PRESSURE SIDE RESTRICTION**

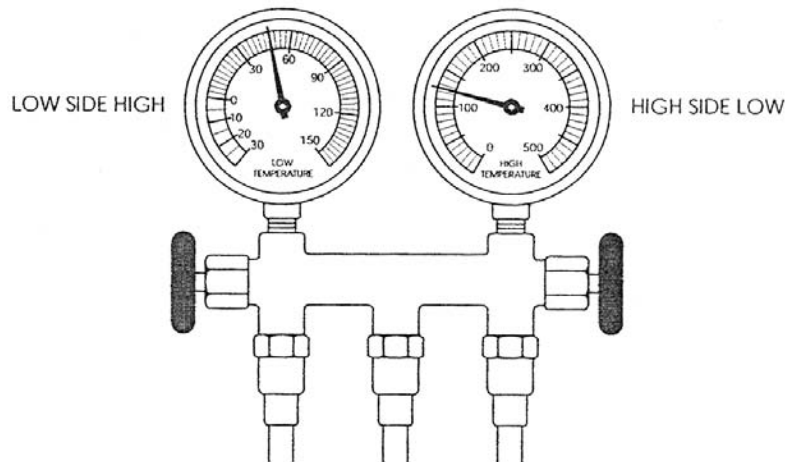


Step 1. Does gauge read as shown?

If yes, check for restriction in compressor discharge line.

If no, there is no high side pressure restriction.

**7. COMPRESSOR MALFUNCTION**



Step 1. Does gauge read as shown and compressor is noisy when operating?

If yes, is belt worn or loose? Tighten or replace belt.

If no, go to step 2.

Step 2. Does gauge read as shown and compressor is not noisy when operating?

If yes, replace compressor.

If no, replace expansion valve.



## Section VI. UNIT MAINTENANCE PROCEDURES.

### WARNING

- Do not attempt to perform any maintenance tasks on the kit while the vehicle is operating. Serious injury or death to personnel may result from failure to observe this warning.
- All personnel should be familiar with and heed all safety warnings in the Warning Summary, page a, prior to performing any installation, removal, or maintenance for the Air Conditioner Kit. Failure to comply could result in injury or death to personnel and/or damage to equipment.
- Prior to beginning any work on the Air Conditioner Kit:
  1. Disconnect batteries
  2. Apply parking brake
  3. Chock wheels
  4. Remove rings, bracelets, watches, necklaces, and any other jewelry.

Failure to comply could result in injury or death to personnel and/or damage to equipment.

### CAUTION

Refer to Repair Parts List (RPL), Appendix C, prior to beginning any installation steps for correct parts and hardware identification. Failure to comply could result in damage to equipment.

#### **4-9 Hoses and Fittings**

When replacing hoses, be sure to use the same type and ID hose you removed. When hoses or fittings are shielded or clamped to prevent vibration damage, be sure these are in position or secured. On R-134a systems, make sure replacement hose has been designed for this refrigerant.

Machine crimped fittings are preferred over those fittings which use hose clamps. Properly crimped ferrules make stronger connections than hose clamps and are recommended by the manufacturers of refrigerant hose. Use crimped fittings on hose brands such as Goodyear Galaxy. Steel fittings are preferred over aluminum in heavy duty applications. Use reusable fittings on the nylon-lined hose brands such as Aeroquip FC 202.

#### **4-10 Expansion Valves**

When removing the expansion valve from the system, remove the insulation, clean the area, and disconnect the line from the receiver-drier. Detach the capillary (bulb) and external equalizer tube (if present) from their mounting locations. Remove the expansion valve from the evaporator inlet. Expansion valve service is limited to cleaning or replacing the filter screen. If this is not the problem, replace the valve. If there is any debris in a block-type valve, replace it. Secure the capillary and equalizer, if used, and replace any insulating material.

#### **4-11 Expansion Tubes**

A clogged or defective expansion tube must be replaced. There are special tools available to remove and replace tubes at their location. If you don't have one, you may be able to use a pair of needle-nose pliers. Put a little refrigerant oil in the evaporator inlet to lubricate the expansion tube for easier removal. Discard the old tube. Lubricate the new tube and O-ring and insert until it seats against the dimples in the evaporator inlet.



**4-12 Receiver/Drier and Accumulator**

The receiver-drier and accumulator cannot be serviced or repaired. They should be replaced whenever the AC system is opened for any service. If the receiver-drier or accumulator has a pressure switch to control the clutch, it should be removed and installed on the new unit.

**4-13 Compressor and Clutch**

Problems with the clutch assembly can be due to low voltage, electrical failure in the coil, the lead wire, or a bad pulley bearing. Check first to see that electrical power is reaching the clutch. The lead wire and bearing can be replaced and the clutch assembly reinstalled. If the coil fails, it must be replaced. If the clutch shows obvious signs of excessive heat, replace the complete assembly. The compressor can fail due to shaft seal leaks, defective valve plates, bad bearings, or problems associated with high pressure, heat, or lack of lubrication.

<b>4-14 Air Conditioning System Servicing</b>	
This task covers:	
a. Discharge Air Conditioning System	b. Purge Air Conditioning System
c. Charge Air Conditioning System	
<b>INITIAL SETUP</b>	
<b>Equipment Conditions:</b> Engine Shut Down (TM 9-2320-280-10) Hood Raised and Supported (TM 9-2320-280-10)	<b>Materials/Parts:</b> R134A Refrigerant (Item 8, Appendix D) Oil, Refrigerant (Item 6, Appendix D)
<b>Tools and Test Equipment:</b> General Mechanic's Tool Kit (Item 1, Appendix B) Refrigeration Tool Kit (Item 4, Appendix B)	<b>Personnel Required:</b> (1) MOS 52C - Utilities Equipment Repairer

**General**

When the air conditioning system must undergo initial service or maintenance that requires opening the system, the system must be discharged prior to maintenance and purged and charged after maintenance.

**a. Discharge Air Conditioning System**

**WARNING**

Since the beginning of 1992, the EPA has required that any refrigerant removed from an AC system be recovered and recycled before reuse. The refrigerant must be contained in an externally sealed container when undergoing recovery/recycle procedures to ensure environmentally safe processing. Failure to comply could result in injury to personnel and/or damage to equipment.

**CAUTION**

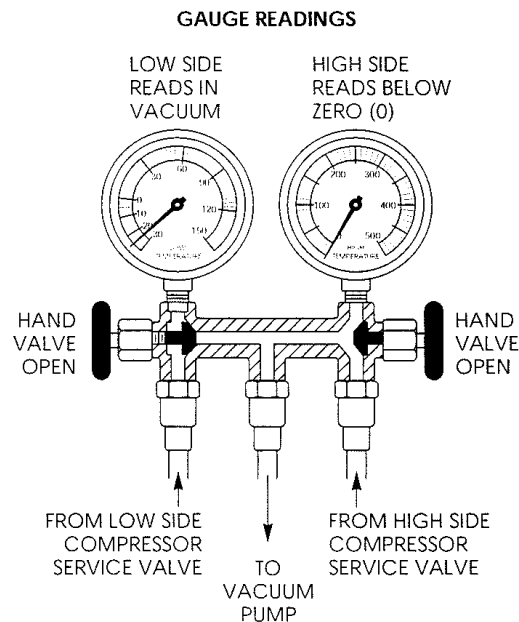
- It is important to run the vacuum pump long enough to insure the removal of any moisture that may be in the system. Failure to comply could result in damage to equipment.
- To prevent excess loss of oil, discharge system slowly over a period of two hours. Failure to comply could result in damage to equipment.

**NOTE**

When installing gauge, note that RED is high side and BLUE is low side.

#### 4-14 Air Conditioning System Servicing (Cont'd)

##### a. Discharge Air Conditioning System (Cont'd)



- 1) Tighten all connections and attach a vacuum pump to the center hose of the gauge set.
- 2) Start the vacuum pump and fully open both hand valves on the manifold. Run pump for five minutes. The system should reach a 30.0" Hg vacuum pressure within 90 seconds.
- 3) Close both hand valves and shut off vacuum pump.
- 4) Observe gauge readings for five minutes. If gauge needles move up, the system is not sealed. Check for loose connections or broken O-rings. Repeat Steps 1 through 4.
- 5) Run the vacuum pump for a minimum of one hour to remove all moisture from system.
- 6) Remove vacuum pump.

##### b. Purge Air Conditioning System

- 1) Tighten all connections and attach a cylinder of dry nitrogen to the center hose of the gauge set.
- 2) Open nitrogen cylinder valve and allow to flow through system until all moisture is forced out.
- 3) Close nitrogen cylinder valve.
- 4) Tighten all connections and attach a vacuum pump to the center hose of the gauge set.
- 5) Start the vacuum pump and fully open both hand valves on the manifold. Run pump for five minutes.
- 6) Close both hand valves and shut off pump.
- 7) Observe gauge readings for five minutes. If gauge needles move up, the system is not sealed. Repeat Steps 4 through 7.
- 8) Run the vacuum pump at a 29.0" Hg vacuum for two hours.

4-14 Air Conditioning System Servicing (Cont'd)

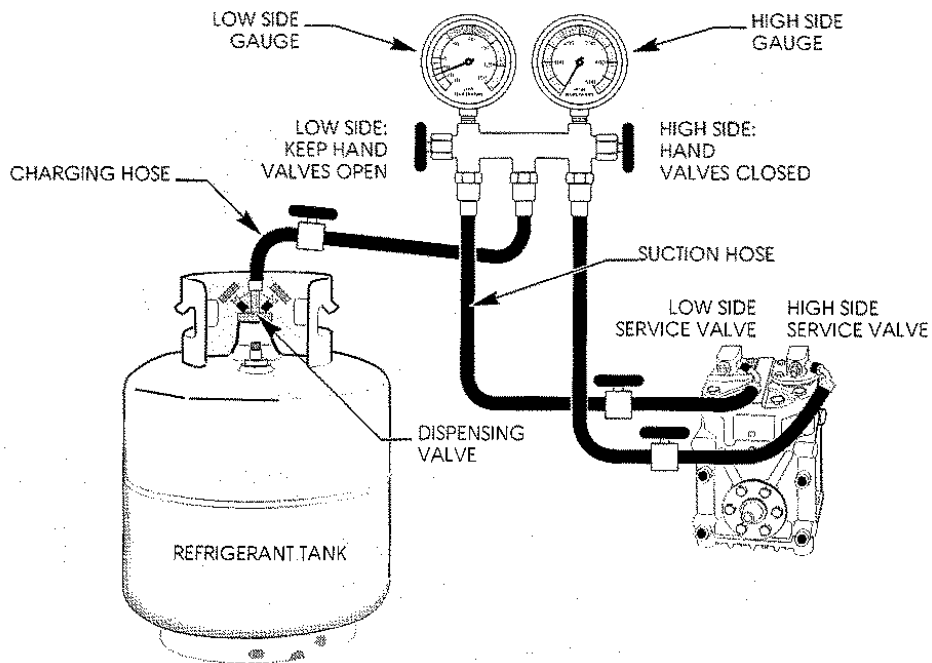
c. Charge Air Conditioning System

**CAUTION**

- Never add more than the recommended amount of refrigerant. Failure to comply could result in damage to equipment.
- Ensure all electrical connectors are properly fastened. Failure to comply could result in damage to equipment.
- Ensure all hoses are tightened and secured away from hot or moving parts. Failure to comply could result in damage to equipment.

**NOTE**

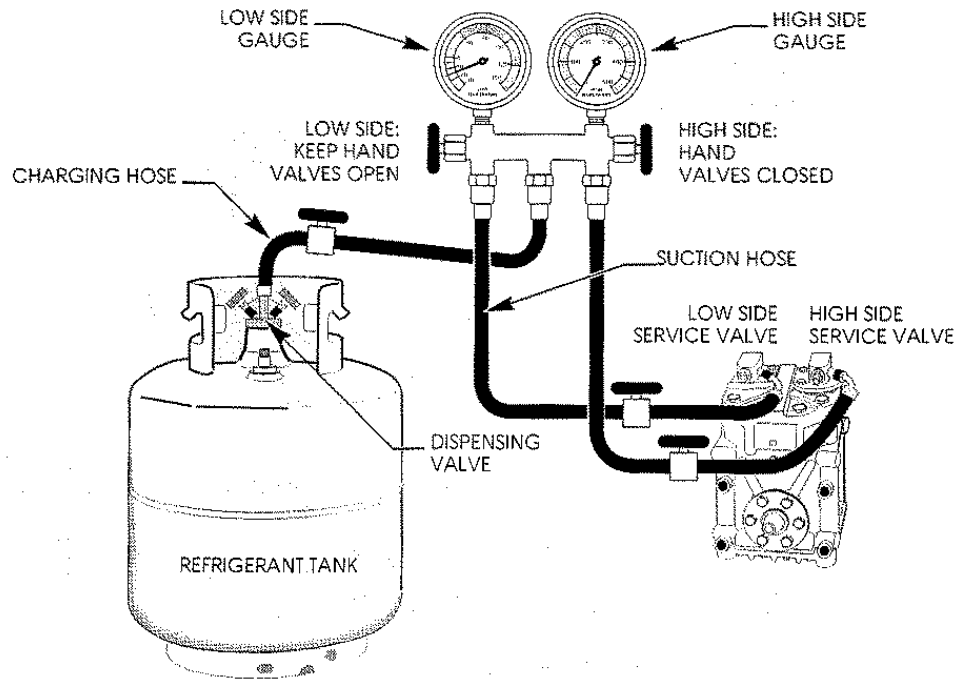
- Steps 1 through 13 apply only to a completely evacuated system. To add additional refrigerant to a charged system, refer to Steps 14 through 17.
- Observe sight glass on dryer bottle. System is charged when sight glass fills with bubbles and then clears.



- 1) Connect the charging hose from the gauge set to the refrigerant tank dispensing valve.
- 2) Invert refrigerant tank on a scale.
- 3) Open the refrigerant tank dispensing valve.
- 4) Open low side (RED) service valve on manifold.
- 5) Add refrigerant until sight glass clears, system and refrigerant tank pressures have equalized, or 4.8 pounds of refrigerant have entered the system.

## 4-14 Air Conditioning System Servicing (Cont'd)

## c. Charge Air Conditioning System (Cont'd)



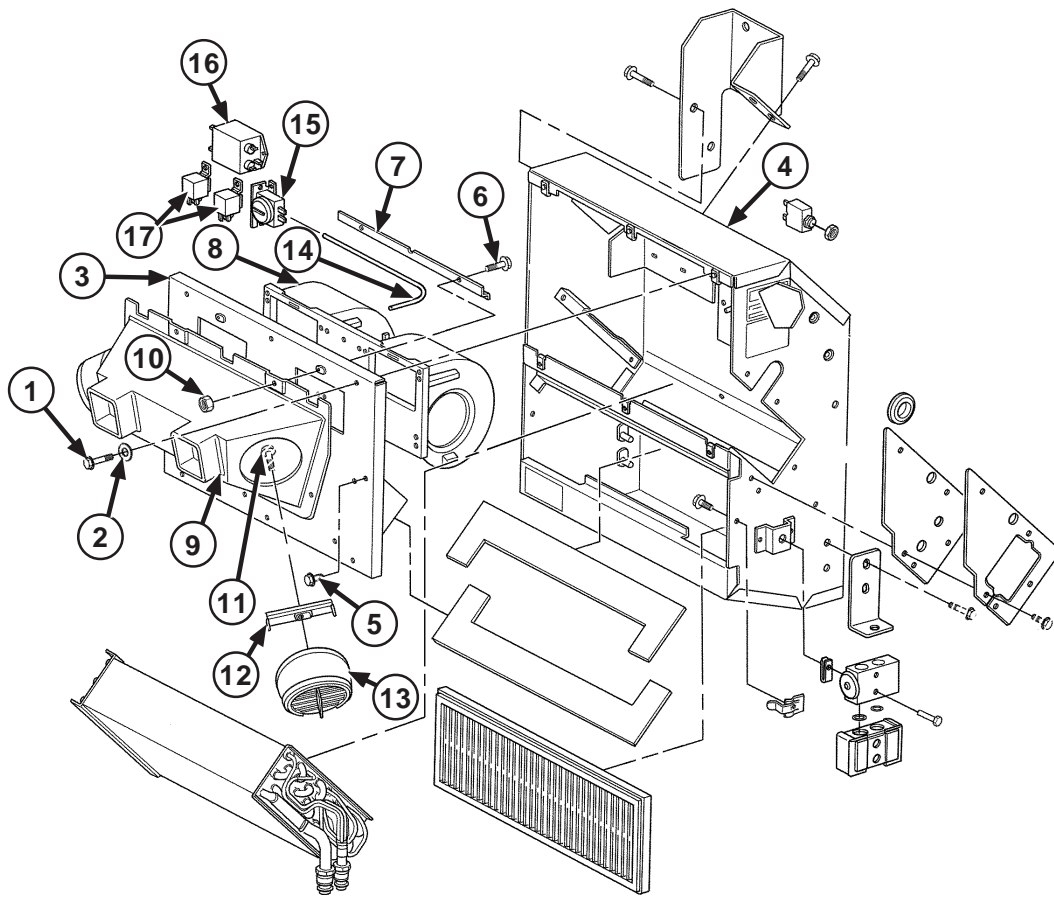
- 6) Close the refrigerant tank dispensing valve.
- 7) Close low side (RED) service valve on manifold.
- 8) Check that gauges read in normal range.
- 9) Disconnect the charging hose from the refrigerant tank dispensing valve.
- 10) Run air conditioner unit in maximum cool mode for 15 minutes.
- 11) Check sight glass. If system is short of refrigerant, gas bubbles will appear regularly in the sight glass.
- 12) If system is undercharged, add additional refrigerant following Steps 14 through 17.
- 13) Place refrigerant tank upright on a scale. Close refrigerant tank dispensing valve.
- 14) Adjust air conditioner to ON; admit refrigerant to system at approximately 1 ounce per minute. Do not exceed 5.2 pounds total weight of refrigerant in system.
- 15) Repeat Steps 7 through 11.
- 16) Check sight glass. If sight glass regularly shows bubbles, repeat Steps 14 through 17, adding refrigerant in 2-ounce increments until indicator is clear.

<b>4-15 Air Conditioning Unit Repair</b>	
This task covers:	
a. Access Panel Removal	b. Distribution Plenum and Centrifugal Fan Repair
c. Evaporator Coil Replacement	d. Filter Element Replacement
e. Access Cover Repair	f. Follow-On-Maintenance
<b>INITIAL SETUP</b>	
<b>Equipment Conditions:</b>	<b>Materials/Parts:</b>
Engine Shut Down (TM 9-2320-280-10)	Tag, Marker (Item 11, Appendix D)
Air Conditioning System Discharged (para 4-14)	
Batteries Disconnected (TM 9-2320-280-10)	<b>Personnel Required:</b>
Disconnect Wiring	(1) MOS 52C - Utilities Equipment Repairer
Remove Refrigerant Hoses	
<b>Tools and Test Equipment:</b>	
General Mechanic's Tool Kit (Item 1, Appendix B)	
Refrigeration Tool Kit (Item 4, Appendix B)	

**General**

When the air conditioning system must undergo initial service or maintenance that requires opening the system, the system must be discharged prior to maintenance and purged and charged after maintenance.

## 4-15 Air Conditioner Unit Repair (Cont'd)

**NOTE**

For ease of installation, tag and mark wires prior to removal.

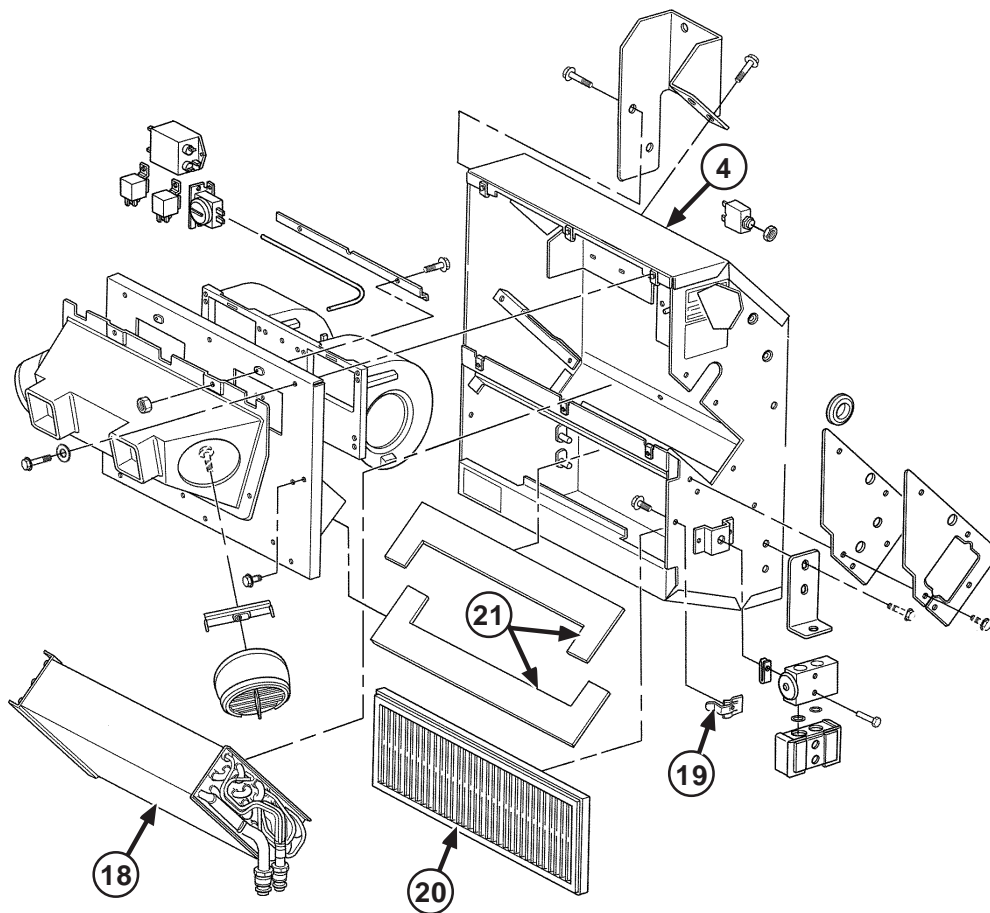
**a. Access Panel Removal**

- 1) Remove six screws (1), washers (2), and access panel (3) from access cover (4).

**b. Distribution Plenum and Centrifugal Fan Repair**

- 1) Remove access panel.
- 2) Remove two screws (5), two screws (6), mounting bracket (7), centrifugal fan (8), distribution plenum (9), and locknut (10) from access panel.
- 3) Remove screw (11), diffuser retainer (12), and diffuser (13) from distribution plenum (9).
- 4) Remove tube (14) from thermostat (15).
- 5) Remove thermostat (15), filter assembly (16), and two relays (17) from access cover (4).
- 6) Install two relays (17), filter assembly (16), and thermostat (15) to access cover (4).
- 7) Install tube (14) to thermostat (15).
- 8) Install diffuser (13), diffuser retainer (12), and screw (11) to distribution plenum.
- 9) Install centrifugal fan (8), distribution plenum (9), and mounting bracket (7) to access panel and secure with two screws (5), two screws (6), and locknut (10).

4-15 Air Conditioner Unit Repair (Cont'd)



**c. Evaporator Coil Replacement**

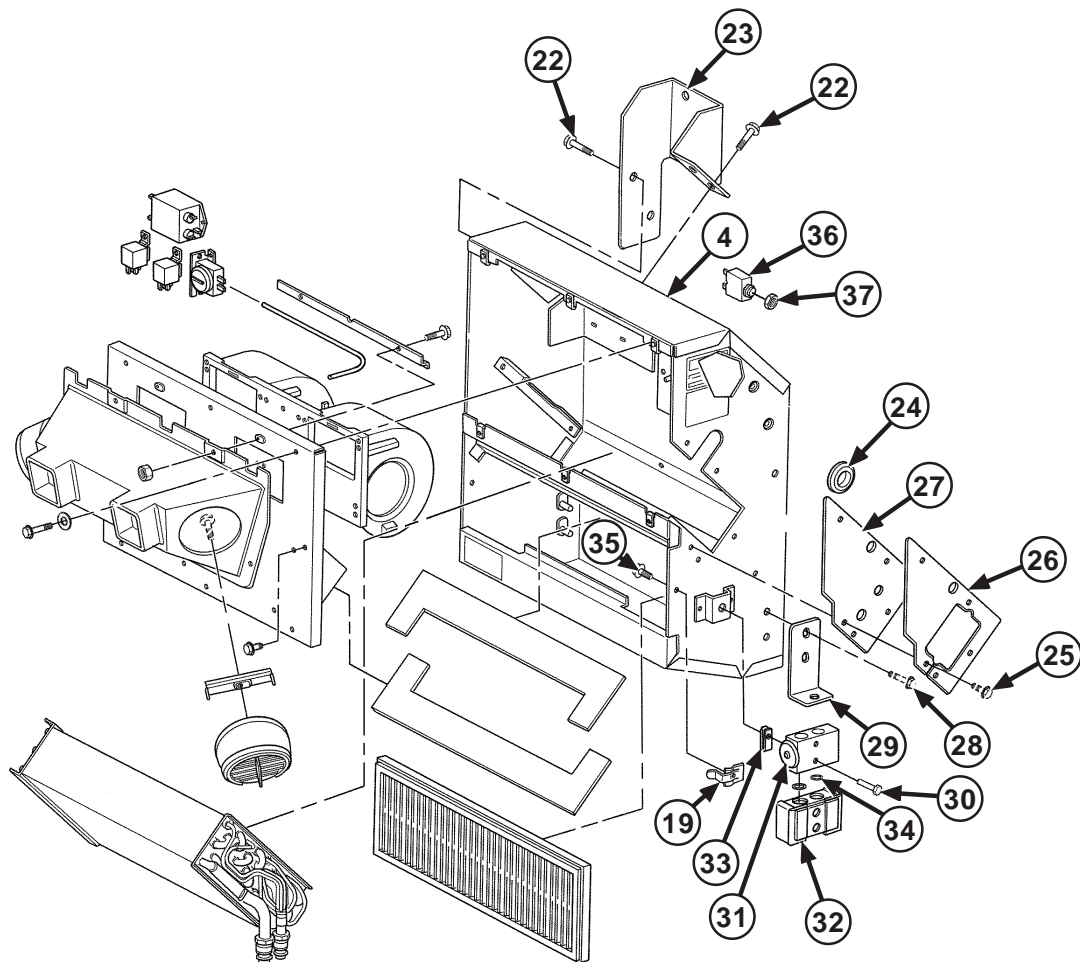
- 1) Remove access panel.
- 2) Remove evaporator coil (18) from access cover (4).
- 3) Install evaporator coil (18) to access cover (4).
- 4) Replace access panel.

**d. Filter Element Replacement**

- 1) Release two tension clips (19) and remove filter element (20) from access cover (4).
- 2) Remove two gaskets (21) from access cover (4).
- 3) Install two gaskets (21) to access cover (4).
- 4) Install filter element (20) to access cover (4).
- 5) Secure two tension clips (19).



## 4-15 Air Conditioner Unit Repair (Cont'd)



## e. Access Cover Repair

- 1) Remove access panel.
- 2) Remove distribution plenum and centrifugal fan.
- 3) Remove evaporator coil.
- 4) Remove filter element.
- 5) Remove four screws (22) and mounting bracket (23) from access cover (4).
- 6) Remove grommet (24) from access cover (4).
- 7) Remove six screws (25), plate (26), and gasket (27) from access cover (4).
- 8) Remove two screws (28) and angle bracket (29) from access cover (4).
- 9) Remove screw (30), expansion valve (31), access cover (32), and nut clip (33) from access cover (4).
- 10) Remove access cover (32) and two O-rings (34) from expansion valve (31).
- 11) Remove rivet (35) and tension clip (19) from access cover (4).
- 12) Remove nut (36) and circuit breaker (37) from access cover (4).

**4-15 Air Conditioner Unit Repair (Cont'd)**

**e. Access Cover Repair (Cont'd)**

- 13) Install circuit breaker (37) to access cover (4) and secure with nut (36).
- 14) Install tension clip (19) and rivet (35) to access cover (4).
- 15) Install two O-rings (34) and access cover (32) to expansion valve (31).
- 16) Install expansion valve (31) and access cover (32) to access cover (4) and secure with screw (30) and nut clip (33).
- 17) Install angle bracket (29) to access cover (4) and secure with two screws (28).
- 18) Install plate (26) and gasket (27) to access cover (4) and secure with six screws (25).
- 19) Install grommet (24) to access cover (4).
- 20) Install mounting bracket (23) to access cover (4) and secure with four screws (22).
- 21) Install filter element.
- 22) Install evaporator coil.
- 23) Install distribution plenum and centrifugal fan.
- 24) Install access panel.

**f. Follow-On Maintenance**

- 1) Connect wiring.
- 2) Connect refrigerant hoses.
- 3) Connect batteries.
- 4) Air conditioning system purged and charged (para 4-14).



<b>4-16 Condenser Repair</b>	
This task covers:	
a. Fan Replacement	b. Cover and Mounting Bracket Replacement
c. Deflector Replacement	d. Condenser Coil Replacement
e. Electrical Filter Assembly Replacement	f. Follow-On Maintenance
<b>INITIAL SETUP</b>	
<b>Equipment Conditions:</b>	<b>Materials/Parts:</b>
Engine Shut Down (TM 9-2320-280-10)	Tag, Marker (Item 11, Appendix D)
Air Conditioning System Discharged (para 4-14)	
Batteries Disconnected (TM 9-2320-280-10)	<b>Personnel Required:</b>
Condenser Removed from Mount	(1) MOS 52C - Utilities Equipment Repairer
<b>Tools and Test Equipment:</b>	
General Mechanic's Tool Kit (Item 1, Appendix B)	
Refrigeration Tool Kit (Item 4, Appendix B)	

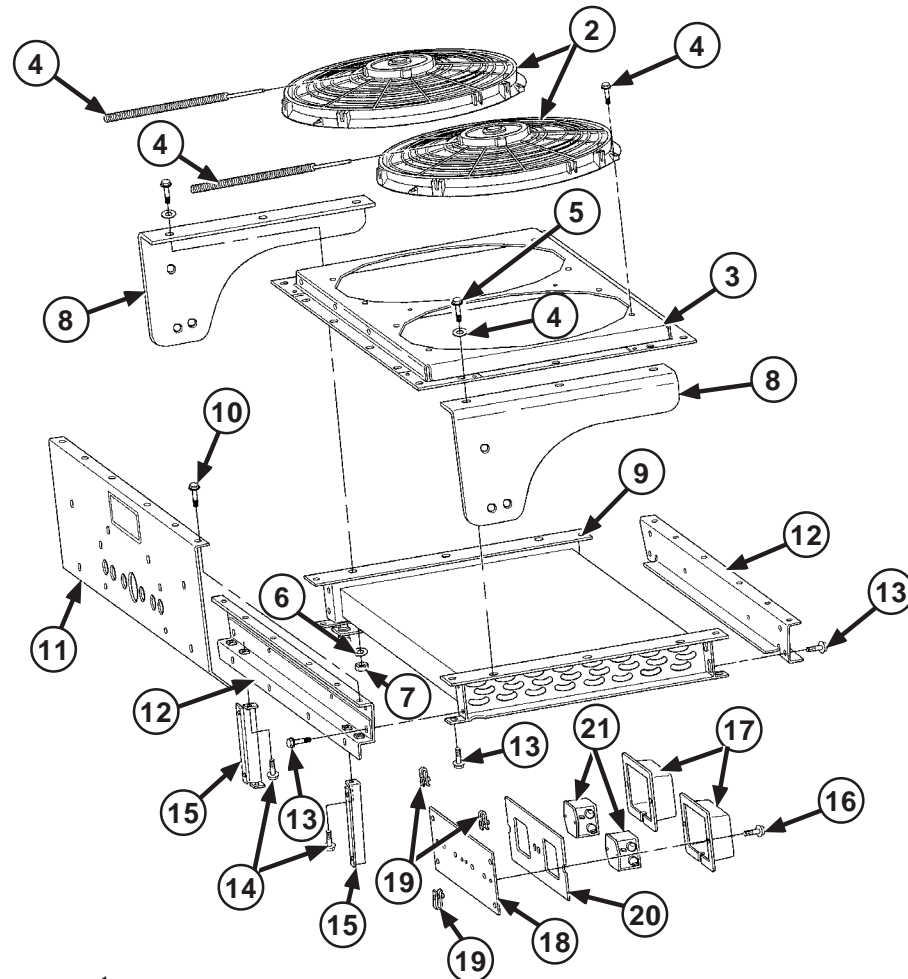
**General**

When the air conditioning system must undergo initial service or maintenance that requires opening the system, the system must be recovered prior to maintenance and evacuated and charged after maintenance.

## 4-16 Condenser Repair (Cont'd)

**NOTE**

- Only perform the steps necessary to replace/repair parts.
- For ease of assembly, tag and mark all wires and hoses prior to removal.

**a. Fan Replacement**

- 1) Remove eight screws (1) from fan (2).
- 2) Remove fan (2) from access cover (3).
- 3) Remove electrical insulation sleeving (4) and disconnect wiring from fan (2).
- 4) Install wiring to fan (2) and replace electrical insulation sleeving (4).
- 5) Install fan (2) to access cover (3) and secure with eight screws (1).

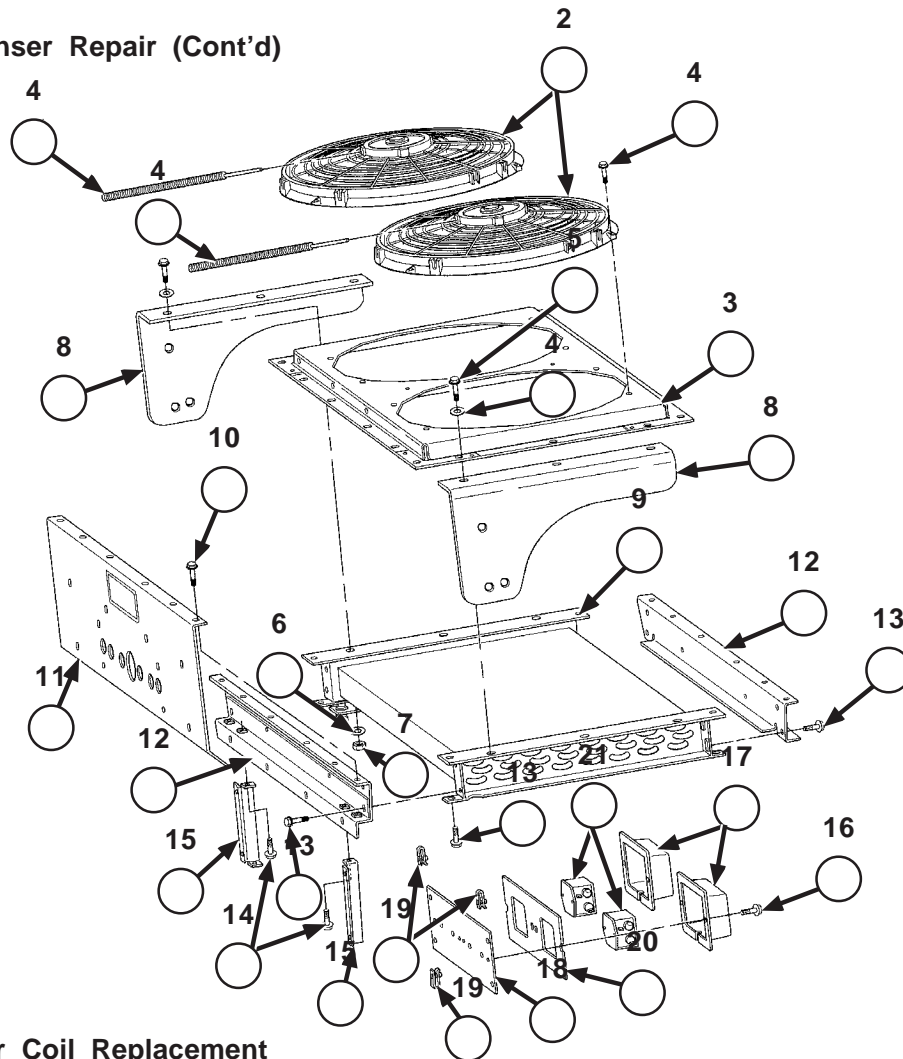
**b. Cover Plate and Mounting Bracket Replacement**

- 1) Remove six bolts (5), twelve washers (6), six locknuts (7), and access cover (3) from mounting bracket (8) and condenser coil (9).
- 2) Install six bolts (5), twelve washers (6), six locknuts (7), and access cover (3) to mounting bracket (8) and condenser coil (9).

**c. Deflector Replacement**

- 1) Remove six screws (10) and deflector (11) from frame bracket (12).
- 2) Install six screws (10) and deflector (11) to frame bracket (12).

4-16 Condenser Repair (Cont'd)



**d. Condenser Coil Replacement**

- 1) Remove twelve screws (13) and frame bracket (12) from condenser coil (9).
- 2) Install twelve screws (13) and frame bracket (12) to condenser coil (9).

**e. Electrical Filter Assembly Replacement**

- 1) Remove two screws (14) and mounting brackets (15) from frame bracket (12).
- 2) Remove four screws (16) and access covers (17) from mounting plate (18).
- 3) Remove four clip nuts (19), gasket (20), and electrical filter assembly (21) from mounting plate (18).
- 4) Install electrical filter assembly (21) and gasket (20) to mounting plate (18) with four clip nuts (19).
- 5) Install access covers (17) to mounting plate (18) with four screws (16).
- 6) Install mounting brackets (15) to frame bracket (12) and secure with two screws (14).

**f. Follow-On Maintenance**

- 1) Connect wiring.
- 2) Connect refrigerant hoses.
- 3) Connect batteries.
- 4) Air conditioning system purged and charged (para 4-14).

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**APPENDIX A  
REFERENCES**

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**A-1 Scope.**

This appendix lists all forms, regulations, pamphlets, specifications, standards, technical manuals, lubrication orders, and field manuals referenced in this TB

**A-2 Forms.**

Recommended Changes to Publications and Blank Forms .....	DA Form 2028
Recommended Changes to Equipment Technical Publications .....	DA Form 2028-2
Depreservation Guide for Vehicles and Equipment .....	DA Form 2258
Equipment Inspection and Maintenance Worksheet .....	DA Form 2404
Computerized (Equipment Inspection and Maintenance Worksheet) .....	DD Form 5988E
Packaging Improvement Report .....	DD Form 6
Product Quality Deficiency Report .....	SF 368

**A-3 Army Regulations.**

Dictionary of United States Army Terms .....	AR 310-25
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**A-4 Department of the Army Pamphlets.**

The Army Maintenance Management System (TAMMS) .....	DA PAM 738-750
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**A-5 Technical Manuals.**

Technical Manual, Maintenance Instructions, Unit Maintenance, High Mobility Multipurpose Wheeled Vehicle (HMMWV) .....	TM 9-2320-280
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**A-6 Lubrication Orders.**

None





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## APPENDIX B MAINTENANCE ALLOCATION CHART (MAC)

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### Section I. INTRODUCTION

#### **B-1 THE ARMY MAINTENANCE SYSTEM MAC.**

- a. This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System Concept.
- b. This MAC designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component, which are shown on the MAC in Column (4) as:
  - Field:* Includes two columns, Unit maintenance and Direct Support maintenance. The Unit maintenance column is divided again into two more subcolumns, C for Operator or Crew and O for Unit maintenance.
  - Sustainment:* Includes two subcolumns, General Support (H) and Depot (D).
- c. The tools and test equipment requirements list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.
- d. The remarks contain supplemental instructions and explanatory notes for a particular maintenance function.

#### **B-2 MAINTENANCE FUNCTIONS.**

Maintenance functions are limited to and defined as follows:

- a. **Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gagings and evaluation of cannon tubes.
- b. **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- c. **Service.** Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:
  - 1) *Unpack.* To remove from packing box for service or when required for the performance of maintenance operations.
  - 2) *Repack.* To return item to packing box after service and other maintenance operations.
  - 3) *Clean.* To rid the item of contamination.
  - 4) *Touch up.* To spot paint scratched or blistered surfaces.
  - 5) *Mark.* To restore obliterated identification.
- d. **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.
- e. **Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. **Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy; to detect and adjust any discrepancy in the accuracy of the instrument being compared.

- g. Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- h. Paint.** To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably to the entire exterior surface, as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.
- i. Replace.** To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level and shown as the 3rd position code of the Source, Maintenance and Recoverability (SMR) Code.
- j. Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, and disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

**NOTE**

The following definitions are applicable to the "repair" maintenance function:

*Services.* Inspect, test, service, adjust, align, calibrate, and/or replace.

*Fault Location/Troubleshooting.* The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

*Disassembly/Assembly.* The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

*Actions.* Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

- k. Overhaul.** That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- l. Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

**B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.**

- a. Column (1) - Group Number.** Column 1 lists Functional Group Code (FGC) numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).
- b. Column (2) - Component/Assembly.** Column 2 contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. Column (3) - Maintenance Function.** Column 3 lists the functions to be performed on the item listed in Column 2. For detailed explanation of these functions, refer to "Maintenance Functions" outlined above.

- d. Column (4) - Maintenance Level.** Column 4 specifies each level of maintenance authorized to perform the function listed in Column 3. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time) troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC Chart. The symbol designations for the various maintenance levels are as follows:

Field:

- C - Operator or Crew maintenance
- O - Unit maintenance
- F - Direct Support maintenance

Sustainment:

- L - Specialized Repair Activity
- H - General Support maintenance
- D - Depot maintenance

#### NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

- e. Column (5) - Tools and Equipment Code.** Column 5 specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE) and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.
- f. Column (6) - Remarks Code.** When applicable, this column contains a letter code, in alphabetic order, which is keyed to the remarks table entries.

#### B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

- a. Column (1) - Reference Code.** The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.
- b. Column (2) - Maintenance Category.** The lowest category of maintenance authorized to use the tool or test equipment.
- c. Column (3) - Nomenclature.** Name or identification of the tool or test equipment.
- d. Column (4) - National Stock Number.** The National Stock Number (NSN) of the tool or test equipment.
- e. Column (5) - Tool Number.** The manufacturer's Part Number (PN).

#### B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

- a. Column (1) - Reference Code.** The code recorded in Column 6, Section II.
- b. Column (2) - Remarks.** This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

**Section II. MAINTENANCE ALLOCATION CHART**

(1) Group Number	(2) Component/Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment Ref Code	(6) Remarks Code
			Field		Sustainment				
			Unit		Direct Support	General Support	Depot		
			C	O	F	H	D		
33 3307	SPECIAL PURPOSE KIT	Install		5.1					1, 2, 3, 4
		Remove		4.0					1, 2, 3, 4
	Wiring Harness	Install		0.4					1
		Inspect		0.8					1
		Remove		0.4					1
	Condenser and Condenser Bracket	Install		1.0					1
		Repair							1
		Remove		2.0					1
	Compressor and Compressor Bracket	Install		2.0					1
		Repair							1
		Remove		0.4					1
	Air Conditioner	Install		0.8					1
		Repair							1
		Remove		0.8					1
	Hose Kit	Install		0.7					1
		Remove		0.7					1
Drier	Install		0.2					1	
	Remove		0.2					1	
	Remove		1.5					1	

**Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS**

(1) REFERENCE CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL/NATO STOCK NUMBER	(5) TOOL PART NUMBER
1	O	TOOL KIT, General Mechanic's:	5180-00-177-7033	SC 5180-95-N26
2	O, F	SHOE EQUIPMENT, Automotive Maintenance and Repair: Organization Maintenance Common #1, Less Power	4910-00-754-0654	SC 4910-95-CL-A74
3	O, F	Shop Equipment, Automotive Maintenance and Repair: Organization Maintenance Common #2	4910-00-754-0650	SC 4910-95-CLA-72
4	F	Tool Kit, Service Refrigeration	5180-00-596-1474	SC 5180-95-N18

**Section IV. REMARKS**

(1) REFERENCE CODE	(2) REMARKS
A	No specific times established. Times required for inspection, service, or test will depend on extent of testing required.



## APPENDIX C

### UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST (RPL)

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## Section I. INTRODUCTION

### C-1. Scope.

This Repair Parts List (RPL) lists and authorizes spares and repair parts; special tools; special Test, Measurement, and Diagnostic Equipment (TMDE), and other special support equipment required for performance of unit and direct support maintenance of the 1-1/4 ton, 4x4, M998, M998A1, M1097, M1097A1, M1097A2, M1025, M1025A1, M1025A2, M1037 series vehicles. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the Source, Maintenance and Recoverability (SMR) codes.

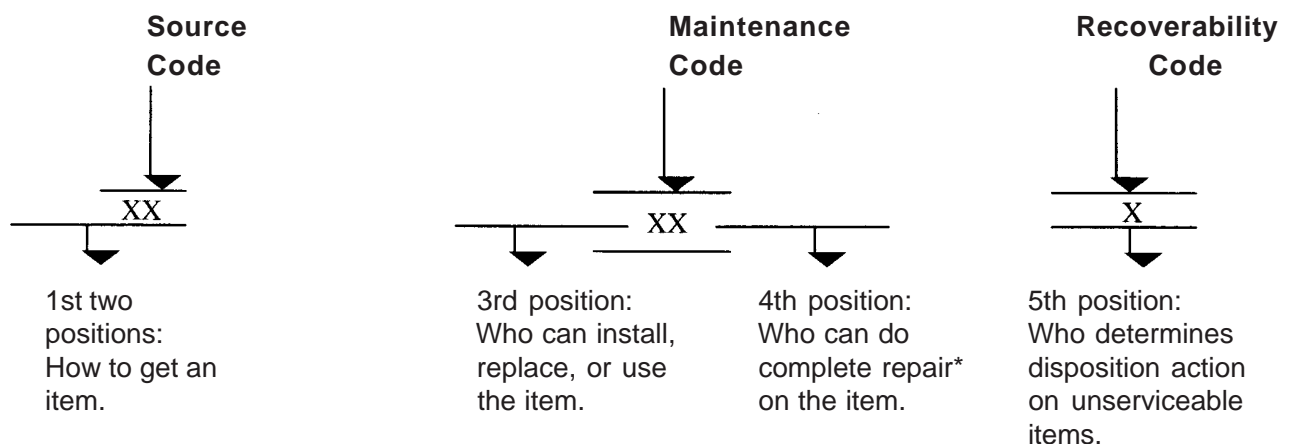
### C-2. General.

In addition to Section I, Introduction, RPL is divided into the following sections:

- a. **Section II. Repair Parts List Breakdown.** A list of spares and repair parts authorized by this RPL for use in the performance of maintenance. The list also includes parts that must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence.
- b. **Section III. Special Tools List.** No special tools are required.
- c. **Section IV. National Stock Number and Part Number Indexes.** A list, in National Item Identification Number (NIIN) sequence, of all national stock numbered items appearing in the listings followed by a list in alphanumeric sequence of all part numbers appearing in the listing. National Stock Numbers (NSN) and part numbers are cross-referenced to each illustration figure and item number appearance.

### C-3. Explanation of Columns (Section II).

- a. **Item No. (Column (1)).** Indicates the number used to identify items called out in the illustration.
- b. **SMR Code (Column (2)).** The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



\*Complete maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "repair" function in a use/user environment in order to restore serviceability to a failed item.

**C-3. Explanation of Columns (Section II) (Cont'd).**

- (1) **Source Code.** The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

XB	Order by part number or obtain from salvage.
XC	Installation drawing, diagram, instruction sheet, field service drawing that is identified by manufacturer's part number.
PA	Stocked items. Use the applicable NSN to request/requisition items with these codes. They are authorized to the category indicated by the code in the 3rd position of the SMR code.
MO- Made at unit level MF- Made at DS level	Items with these codes are not to be requisitioned/requested individually. They must be made from bulk material which is identified by the NSN or part number in the Bulk Material group of the repair parts list in this manual. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO- Assembled at Unit Level AF- Assembled at Direct Support	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

**NOTE**

Cannibalization when authorized may be used as a source of supply for items with the above source codes.

- (2) **Maintenance Code.** Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of Maintenance:

<u>Maintenance Code</u>	<u>Application/Explanation</u>
C	Crew or operator maintenance done within organizational maintenance.
O	Unit level maintenance can remove, replace, and use the item.
F	Direct support maintenance can remove, replace, and use the item.

The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions).

**C-3. Explanation of Columns (Section II) (Cont'd).****NOTE**

Some limited repair may be done on the item at a lower level of maintenance, if authorized, by the Maintenance Allocation Chart (MAC) and SMR codes. This position will contain one of the following maintenance codes.

<u>Maintenance Code</u>	<u>Application/Explanation</u>
O	Unit Maintenance is the lowest level that can do complete repair of the item.
F	Direct support is the lowest level that can do complete repair of the item.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

- (3) **Recoverability Code.** Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR code as follows:

<u>Recoverability Code</u>	<u>Application/Explanation</u>
Z	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
O	Reparable item. When uneconomically repairable, condemn and dispose of the item at the unit level.
F	Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support level.
A	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, costly item, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

- c. National Stock Number (Column (3)).** The National Stock Number is used to request/requisition items.
- d. CAGE (Column (4)).** The Commercial and Government Entity Code (CAGE) is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- e. Part Number (Column (5)).** Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

**C-3. Explanation of Columns (Section II) (Cont'd).****NOTE**

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

- f. Description (Column (6)).** This column includes the following information:
- (1) The Federal item name and, when required, a minimum description to identify the item.
  - (2) Items that are included in kits and sets are listed below the name of the kit or set.
  - (3) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
  - (4) Part Numbers for bulk material are referenced in this column in the line entry for the item to be manufactured/fabricated.
  - (5) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).
  - (6) The Usable on Code, when applicable.
  - (7) The statement "END OF FIGURE" appears just below the last item description in Column 6.
- g. QTY (Column (7)).** The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, sub-functional group, or assembly. A "V" appearing in this column in lieu of a quantity indicates that the specific quantity is variable and the quantity may vary from application to application.

**C-4. Explanation of Columns (Section III). Special Tools List.** No special tools are required.**C-5. Explanation of Columns (Section IV).****a. Part Number Index**

- (1) **CAGEC (Column (1)).** The Commercial And Government Entity (CAGE) Code (C) is a 5 digit alphanumeric code used to identify the manufacturer, distributor or Government agency, etc., that supplies the item.
- (2) **Part Number (Column (2)).** The part number indicates the primary number used by the manufacturer (individual, firm, corporation, or government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.
- (3) **Stock Number (Column (3)).** This column lists the NSN for the item.
- (4) **Fig. (Column (4)).** This column lists the number of the figure where the item is identified/located in Section II.
- (5) **Item (Column (5)).** The item number identifies the item associated with the figure listed in the adjacent FIG. Column. This item is also identified by the NSN listed on the same line.

**C-5. Explanation of Columns (Section IV) (Cont'd).****b. National Stock Number (NSN) Index.**

- (1) **Stock Number (Column (1)).** This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. An example is shown below.

NSN
5305-01-674-14767
NIIN

When using this column to locate an item, ignore the first four digits of the NSN. However, stock number should use the complete NSN when ordering items.

- (2) **Fig. (Column (2)).** This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II.
- (3) **Item (Column (3)).** The item number identifies the item associated with the figure listed in the adjacent FIG. Column. This item is also identified by the NSN listed on the same line.

**c. Figure and Item Number Index**

- (1) **Fig. (Column (1)).** This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II.
- (2) **Item (Column (2)).** The item number identifies the item associated with the figure listed in the adjacent FIG. Column. This item is also identified by the NSN listed on the same line.
- (3) **Stock Number (Column (3)).** This column lists the NSN for the item.
- (4) **CAGEC (Column (4)).** The Commercial And Government Entity (CAGE) Code (C) is a 5 digit alphanumeric code used to identify the manufacturer, distributor or Government agency, etc., that supplies the item.
- (5) **Part Number (Column (5)).** The part number indicates the primary number used by the manufacturer (individual, firm, corporation, or government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

**C-6. Special Information.**

- a. **Useable On Code.** The useable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC:....." in the description column (left justified) on the first line applicable item description/nomenclature. Identification of UOC's used in this RPL are:

Code	Used On	Code	Used On
AVY	M1097A1	HVY	M1097
A13	M998A1	H13	M998
BVY	M1097A2	H17	M1025
B17	M1025A1	H21	M1037
C17	M1025A2		

- b. **Fabrication Instructions.** Not applicable for this publication.
- c. **Assembly Instruction.** Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

**C-7. How to Locate Illustrated Parts.****a. When National Stock Number or Part Number is not known.**

- (1) **First.** Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.
- (2) **Second.** Find the figure covering the assembly group or subassembly group to which the item belongs.
- (3) **Third.** Identify the item on the figure and use the part number or NSN shown.

**b. When National Stock Number or Part Number is known.**

- (1) **First.** Using the National Stock Number or Part Number, find the pertinent NSN or PN. The NSN index is in National Item Identification Number (NIIN) sequence (see 4b(1)). The part numbers in the PN index are listed in ascending alphanumeric sequence (see 4a). Both indexes cross-reference to the illustration/figure and item number of the item.
- (2) **Second.** Turn to the figure and item number, verify the item is the one you're looking for, then locate the item number in the Repair Parts List for the figure.



1  
2 thru 135

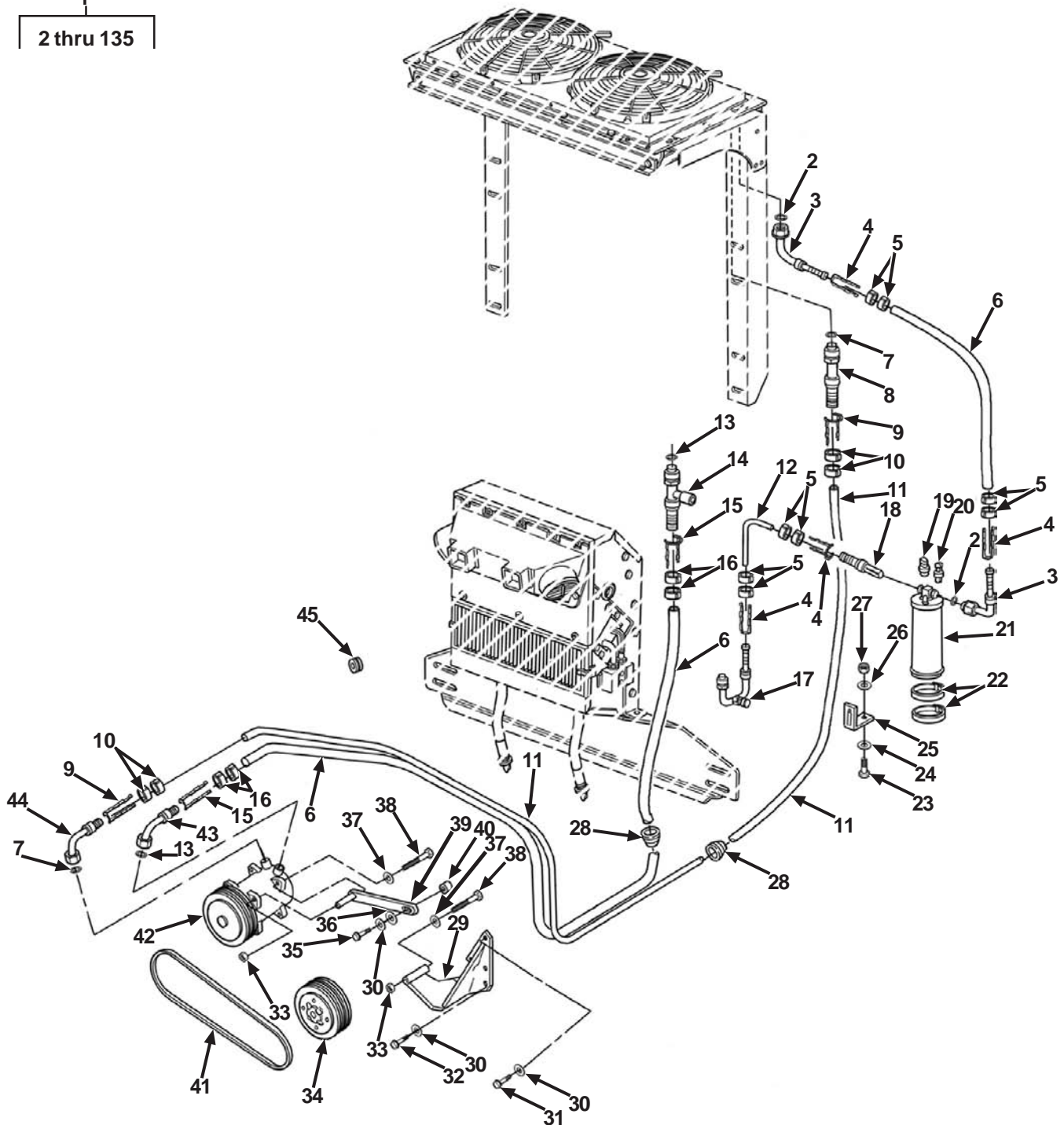


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 1 of 7)



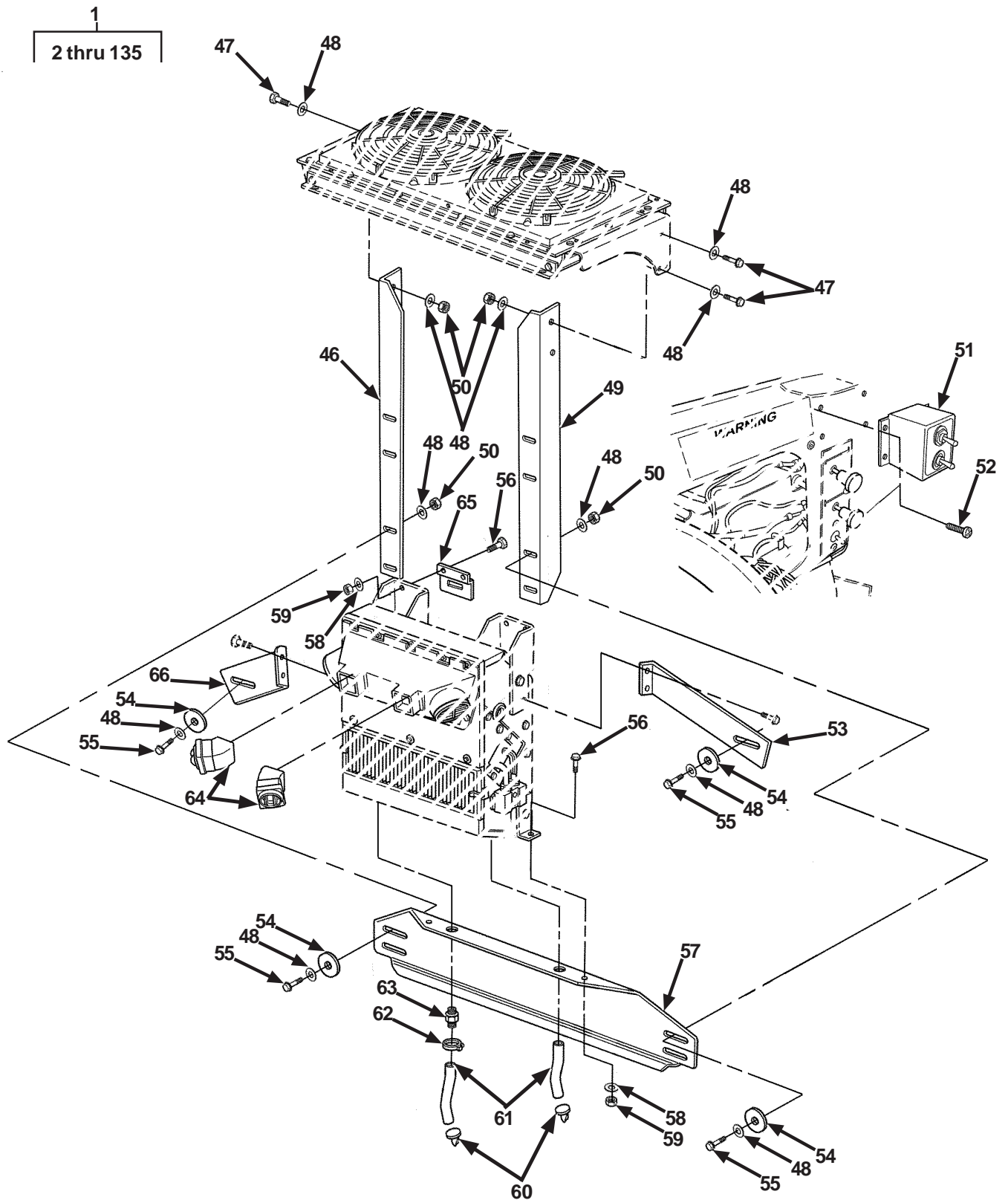


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 2 of 7)

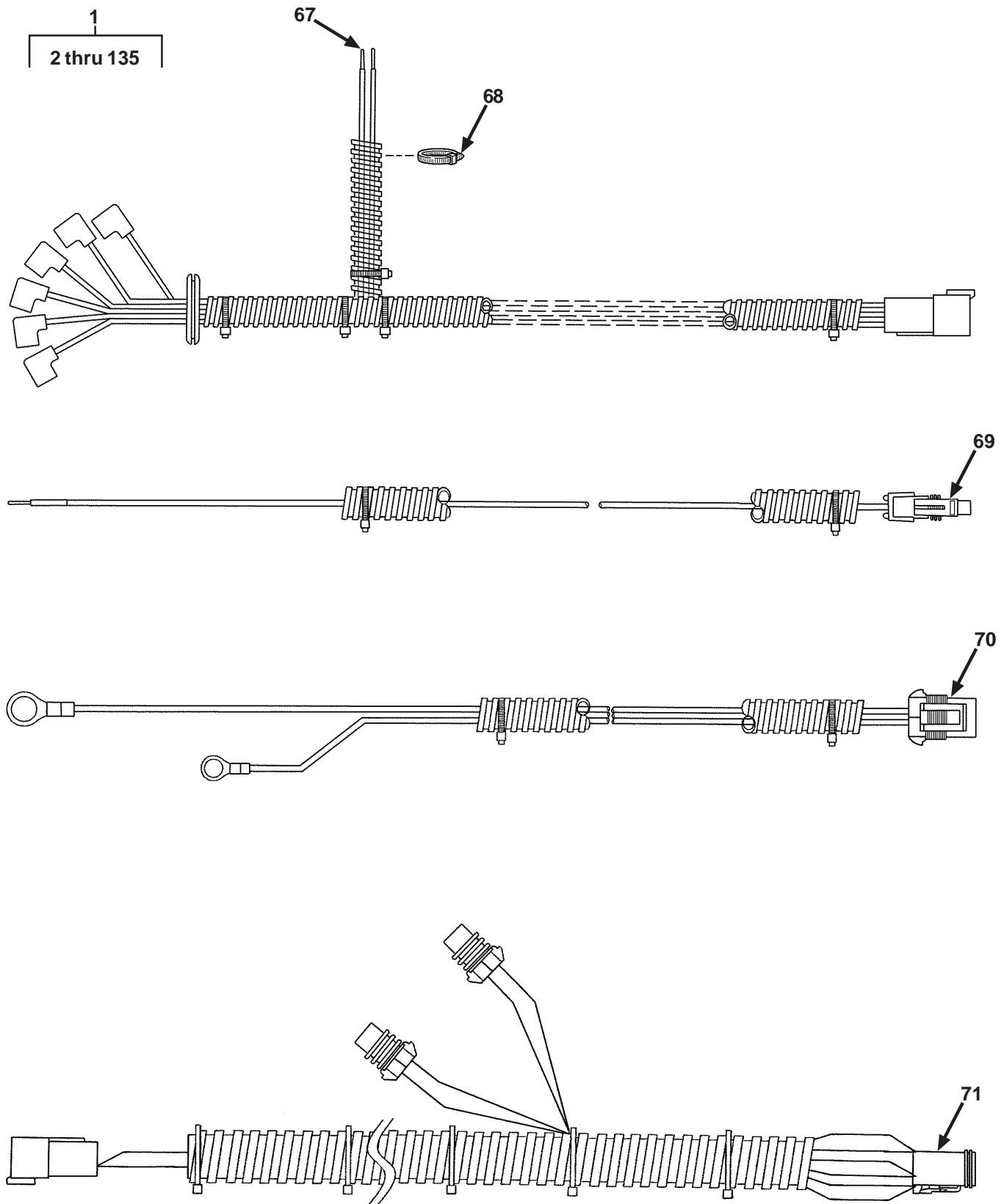


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 3 of 7)

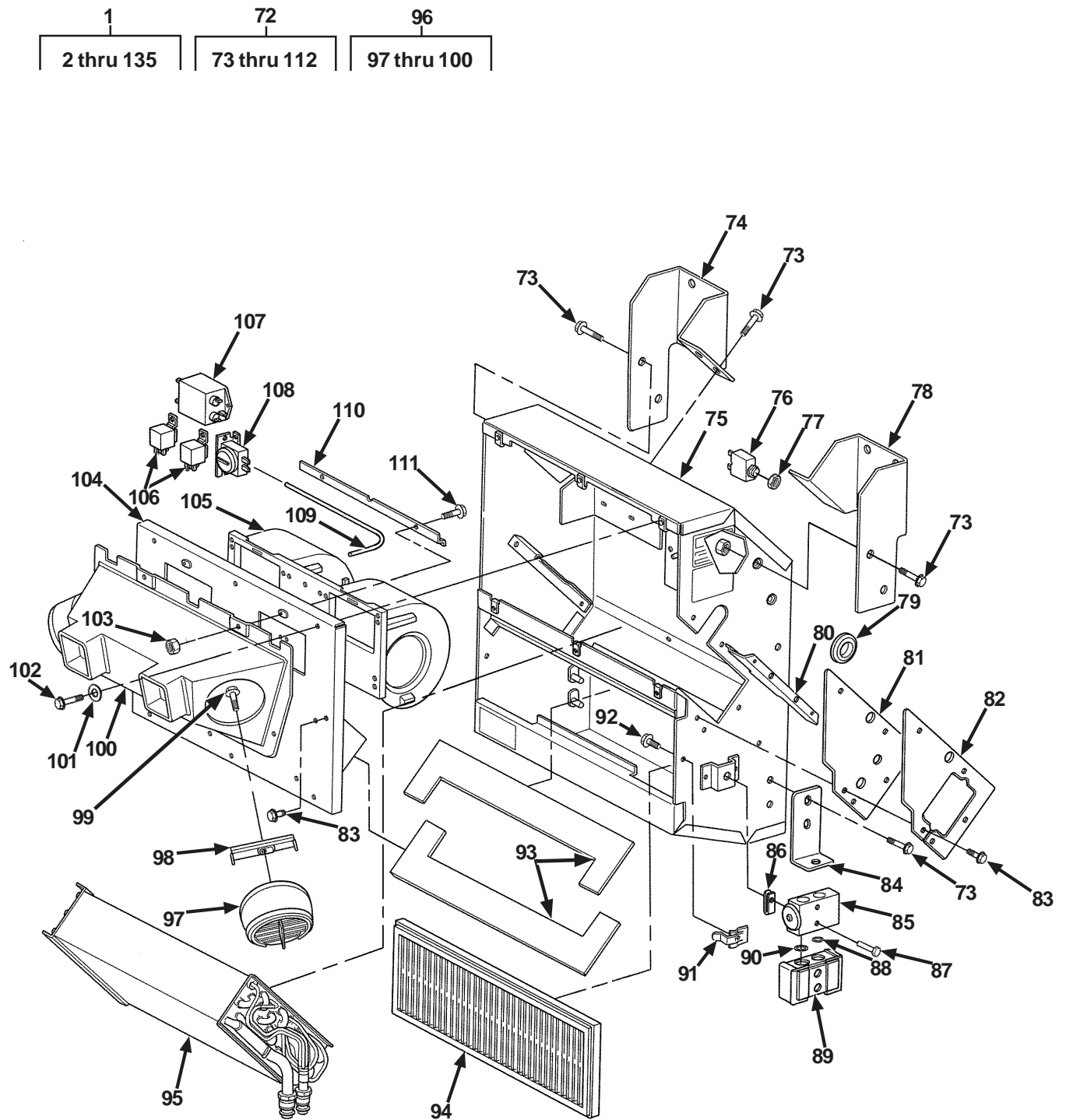


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 4 of 7)

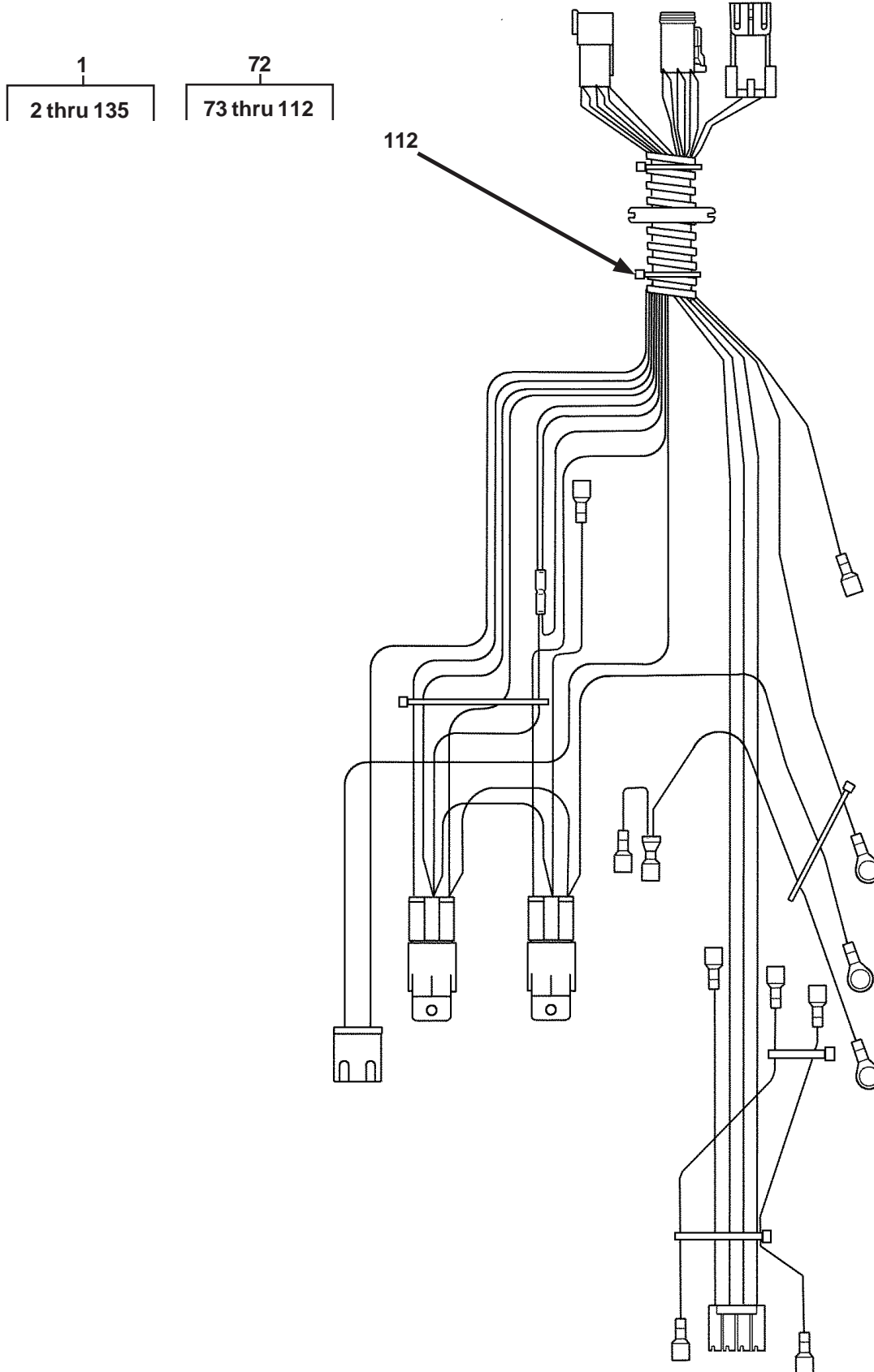


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 5 of 7)

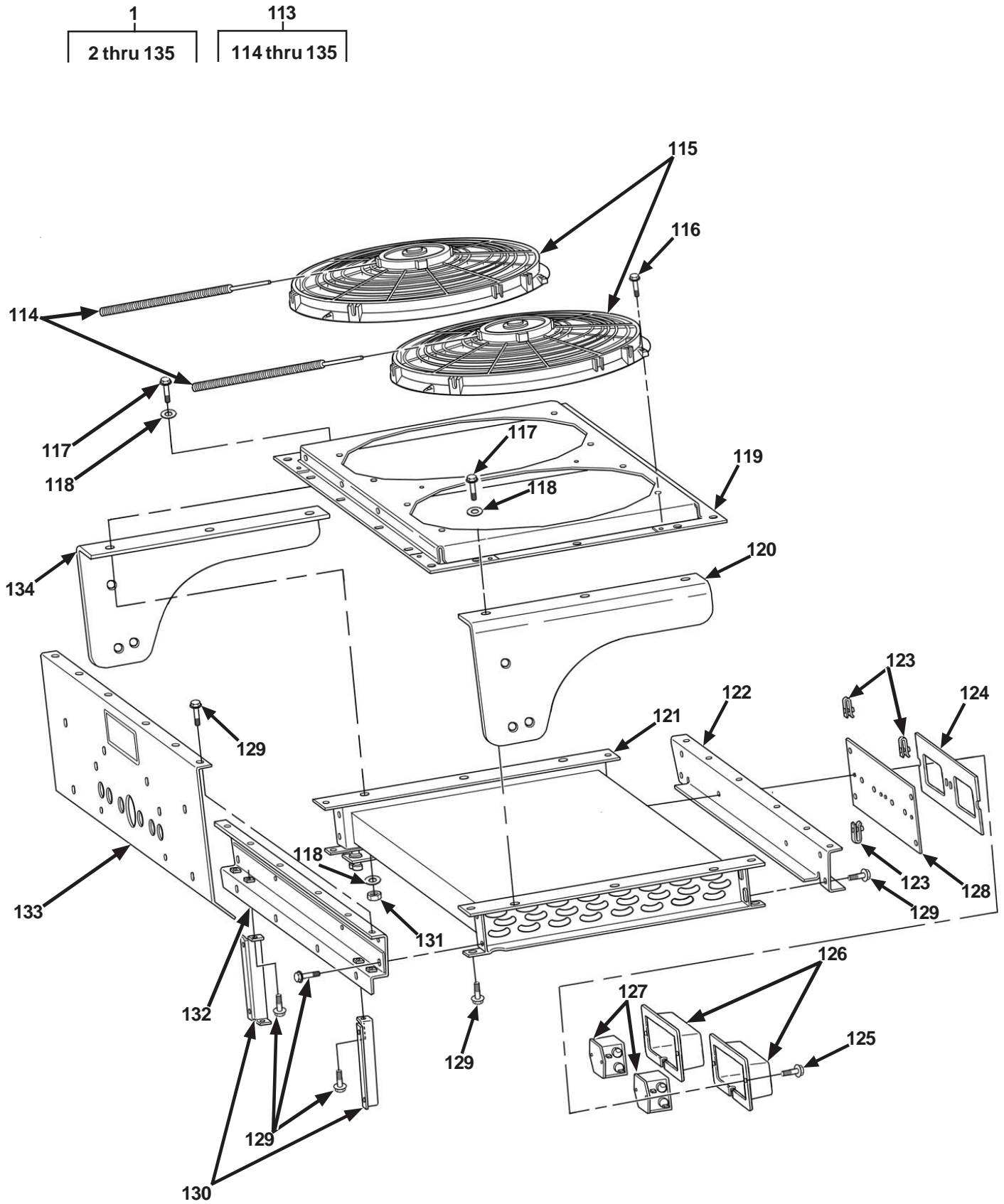


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 6 of 7)

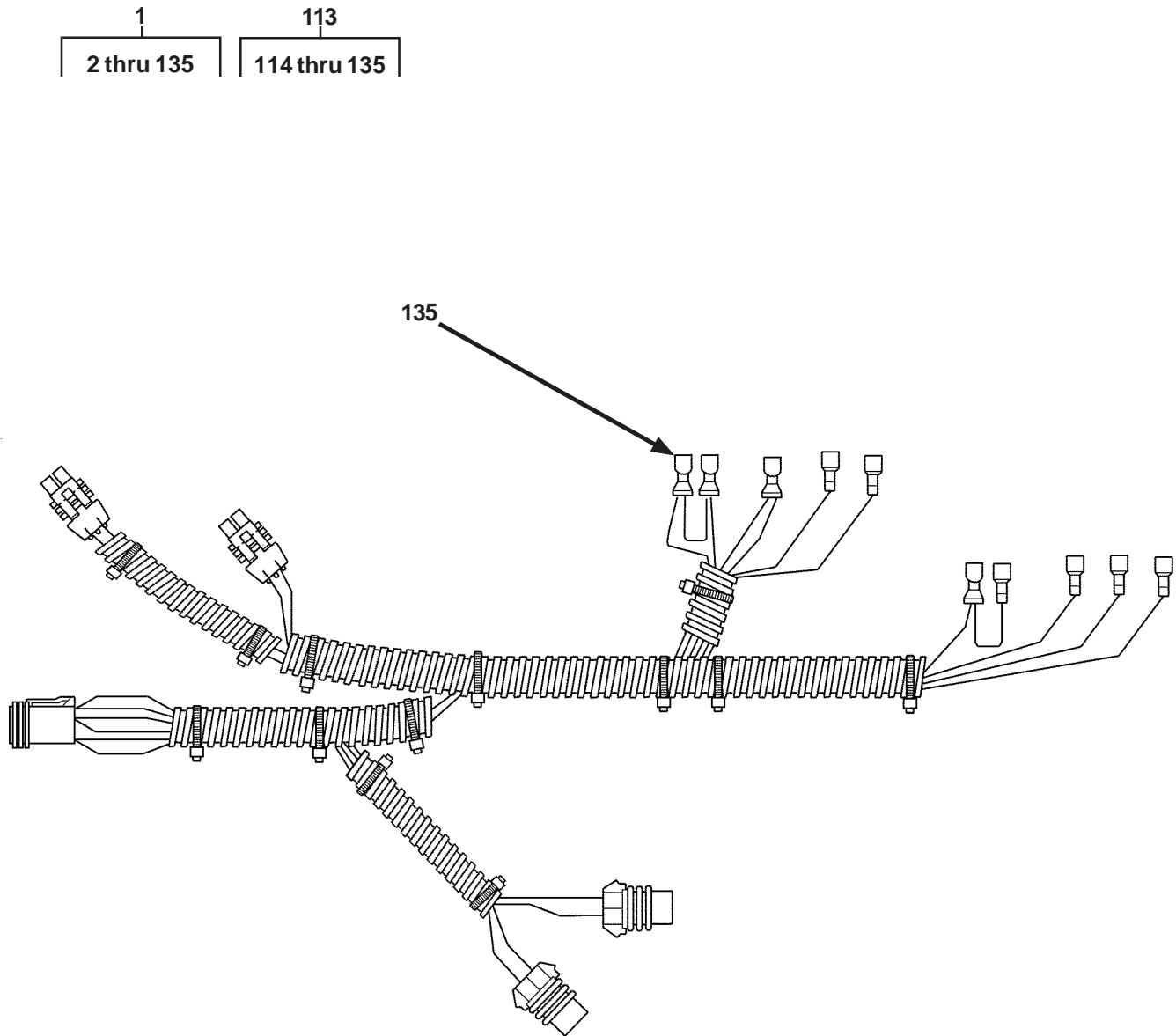


Figure 1. Air Conditioner Kit for M998 and M998A1 Four-Door with GSIE Armor (Sheet 7 of 7)

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 33 SPECIAL PURPOSE KITS GROUP 3307 SPECIAL PURPOSE KITS FIG. 1 AIR CONDITIONER KIT FOR M998 AND M998A1 FOUR-DOOR WITH GSIE ARMOR	
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:A13,H13	
2	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:A13,H13	
3	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:A13,H13	
4	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	4
					UOC:A13,H13	
5	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP . . . . .	8
					UOC:A13,H13	
6	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE,NONMETALLIC #12 REFRIG . . . . .	1
					UOC:A13,H13	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:A13,H13	
8	PAOZZ	4730015237227	62534	RD-5-10510-0P	.ADAPTER,STRAIGHT #8 FEMALE . . . . .	1
					UOC:A13,H13	
9	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:A13,H13	
10	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:A13,H13	
11	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE,NONMETALLIC #8 REFRIG . . . . .	1
					UOC:A13,H13	
12	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG . . . . .	1
					UOC:A13,H13	
13	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 . . . . .	2
					UOC:A13,H13	
14	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER,PIPE #10/#12 90° MALE . . . . .	1
					UOC:A13,H13	
15	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE,NONMETALLIC #12 CAGE . . . . .	2
					UOC:A13,H13	
16	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP,HOSE #12 CLIP . . . . .	4
					UOC:A13,H13	
17	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE,METALLIC . . . . .	1
					UOC:A13,H13	
18	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE,METALLIC . . . . .	1
					UOC:A13,H13	
19	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:A13,H13	
20	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:A13,H13	
21	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER,LIQUID REFRIGERANT . . . . .	1
					UOC:A13,H13	
22	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP,HOSE . . . . .	2
					UOC:A13,H13	

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	5305015258598	62534	RD-5-11433-1-20	.SCREW,CAP,HEXAGON HEAD UOC:A13,H13	8
24	PAOZZ	5310015258498	62534	RD-5-4215-0	.WSHER,FLAT UOC:A13,H13	1
25	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW,AIR CONDITIONING-HEATING UOC:A13,H13	1
26	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW,ASSEMBLED WASHER UOC:A13,H13	15
27	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD UOC:A13,H13	9
28	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC UOC:A13,H13	2
29	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET,MOUNTING COMPRESSOR UOC:A13,H13	1
30	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER,LOCK UOC:A13,H13	1
31	PAOZZ	5305015258583	62534	RD-5-6250-0-55	.SCREW,MACHINE UOC:A13,H13	1
32	PAOZZ	5305015258603	62534	RD-5-6250-0-30	.SCREW,MACHINE UOC:A13,H13	1
33	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT,SELF-LOCKING,HEXAGON UOC:A13,H13	1
34	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY,GROOVE 5 UOC:A13,H13	1
35	PAOZZ	5305015298139	62534	RD-5-6250-0-50	.SCREW,MACHINE UOC:A13,H13	1
36	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER,FLAT 1/8 UOC:A13,H13	1
37	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER,FLAT 1/4 UOC:A13,H13	2
38	PAOZZ	5305015260983	62534	RD-5-6141-0-130	.SCREW,MACHINE UOC:A13,H13	1
39	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM,ADJUSTING,BELT TENSION UOC:A13,H13	1
40	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER,SLEEVE UOC:A13,H13	1
41	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT,V 44-5/8" UOC:A13,H13	1
42	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR,REFRIGERATION 24V 2A JD UOC:A13,H13	1
43	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW,TUBE TO HOSE #10 TO #12 90° FEMALE UOC:A13,H13	1
44	PAOZZ	4730015234950	62534	RD-5-10517-0P	.ELBOW,TUBE #8 45° FEMALE UOC:A13,H13	1
45	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET,NONMETALLIC UOC:A13,H13	1



## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
46	PAOZZ	5340015231579	62534	RD-4-5917-1P	.BRACKET,ANGLE ..... UOC:A13,H13	1
47	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	.BOLT,MACHINE ..... UOC:A13,H13	4
48	PAOZZ	5310015233710	62534	RD-5-11388-0	.WASHER,FLAT ..... UOC:A13,H13	16
49	PAOZZ	5340015237598	62534	RD-4-5916-0	.BRACKET,ANGLE ..... UOC:A13,H13	1
50	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	8
51	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX,ELECTRICAL ..... UOC:A13,H13	1
52	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW,MACHINE ..... UOC:A13,H13	4
53	PAOZZ	5340015233961	62534	RD-2-4221-0P	.BRACKET,MOUNTING EVAPORATOR ..... UOC:A13,H13	1
54	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER,FLAT ..... UOC:A13,H13	4
55	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	.BOLT,MACHINE ..... UOC:A13,H13	4
56	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	14
57	PAOZZ	5340015231682	62534	RD-2-4219-0P	.BRACKET,MOUNTING EVAPORATOR ..... UOC:A13,H13	1
58	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER,FLAT ..... UOC:A13,H13	14
59	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	14
60	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG,TUBE FITTING,THREADED ..... UOC:A13,H13	2
61	PAOZZ	4720015329536	62534	RD-5-6532-24P	.HOSE,NONMETALLIC ..... UOC:A13,H13	2
62	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP,LOOP ..... UOC:A13,H13	2
63	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION,PIPE TO HOSE ..... UOC:A13,H13	2
64	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR,AIR CIRCULATING ..... UOC:A13,H13	2
65	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET,MOUNTING EVAPORATOR,REAR ... UOC:A13,H13	2
66	PAOZZ	5340015233707	62534	RD-2-4220-0P	.BRACKET,MOUNTING EVAPORATOR ..... UOC:A13,H13	1
67	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS,BRANCHED CONTROL PANEL UOC:A13,H13	1
68	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP,TIEDOWN,ELECTRICAL COMPONENTS ..... UOC:A13,H13	10
69	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH ..... UOC:A13,H13	1

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
70	PAOZZ	6150015253955	62534	RD-2-4163-0P	UOC:A13,H13 .WIRING HARNESS BATTERY .....	1
71	PAOZZ	6150015330936	62534	RD-4-5958-0P	UOC:A13,H13 .WIRING HARNESS,BRANCHED .....	1
72	PAOOO	TBD	62534	RD-2-4115	UOC:A13,H13 .AIR CONDITIONER (SERVICE PARTS R-2400) .....	1
73	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	12
74	PAOZZ	5340015236753	62534	RD-2-4222-0P	UOC:A13,H13 ..BRACKET,MOUNTING .....	1
75	PAOZZ	5340015238425	62534	RD-2-4116-0	UOC:A13,H13 ..COVER,ACCESS .....	1
76	PAOZZ	5925015217620	62534	RD-5-11437-0P	UOC:A13,H13 ..CIRCUIT BREAKER 30 AMP .....	1
77	PAOZZ	5310015252737	62534	RD-5-4133-0M	UOC:A13,H13 ..NUT,PLAIN,HEXAGON 7/16-28 .....	1
78	PAOZZ	5340015231015	62534	RD-2-4222-1	UOC:A13,H13 ..BRACKET,MOUNTING .....	1
79	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC:A13,H13 ..GROMMET,NONMETALLIC .....	1
80	PAOZZ	5340015232793	62534	RD-2-4122-0P	UOC:A13,H13 ..STRAP,RETAINING .....	1
81	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:A13,H13 ..GASKET .....	1
82	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:A13,H13 ..PLATE,RETAINING,SEAL .....	1
83	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	14
84	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:A13,H13 ..BRACKET,ANGLE .....	2
85	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:A13,H13 ..VALVE,EXPANSION R134a 2 TON .....	1
86	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:A13,H13 ..NUT,CLIP M6 .....	1
87	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:A13,H13 ..SCREW,ASSEMBLED WASHER .....	2
88	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:A13,H13 ..O-RING #8 .....	1
89	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:A13,H13 ..COVER,ACCESS .....	1
90	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:A13,H13 ..O-RING #10 .....	1
91	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:A13,H13 ..CLIP,SPRING,TENSION .....	2
92	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:A13,H13 ..RIVET,BLIND .....	2
93	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:A13,H13 ..GASKET .....	2

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:A13,H13 ..FILTER ELEMENT,AIR CONDITIONING ....	1
95	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:A13,H13 ..EVAPORATOR COIL,REFRIGERATION .....	1
96	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:A13,H13 ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
97	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:A13,H13 ...DIFFUSER,AIR,HEATING AND VENTILATING .....	2
98	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:A13,H13 ...RETAINER-DIFFUSER .....	2
99	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:A13,H13 ...SCREW,ASSEMBLED WASHER .....	1
100	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:A13,H13 ...DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1
101	PAOZZ	5310015179281	62534	RD-5-4556-1	UOC:A13,H13 ...SCREW,ASSEMBLED WASHER .....	6
102	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	UOC:A13,H13 ...SCREW,CAP,HEXAGON HEAD .....	6
103	PAOZZ	5310015231558	62534	RD-5-4544-0	UOC:A13,H13 ...NUT,SELF-LOCKING,HEXAGON .....	2
104	PAOZZ	5340015231985	62534	RD-2-4126-0P	UOC:A13,H13 ...COVER,ACCESS .....	1
105	PAOZZ	4140015218532	62534	RD-5-11436-0P	UOC:A13,H13 ...FAN,CENTRIFUGAL 24V .....	1
106	PAOZZ	5945015229738	62534	RD-5-4417-0P	UOC:A13,H13 ...RELAY,ELECTROMAGNETIC .....	2
107	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:A13,H13 ...FILTER ASSEMBLY,ELECTRICAL .....	1
108	PAOZZ	6685015174892	62534	RD-5-11440-0P	UOC:A13,H13 ...THERMOSTAT,FLOW CONTROL .....	1
109	PAOZZ	4710015230548	62534	RD-5-3816-16P	UOC:A13,H13 ...TUBE,BENT,METALLIC 1/8 I.D. ....	1
110	PAOZZ	5340015233993	62534	RD-2-4150-0P	UOC:A13,H13 ...BRACKET,MOUNTING .....	1
111	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	UOC:A13,H13 ...SCREW,CAP,HEXAGON HEAD .....	2
112	PAOZZ	6150015214634	62534	RD-2-4153-0P	UOC:A13,H13 ...WIRING HARNESS AIR CONDITIONER ....	1
113	PAOOO	4140015215780	62534	RD-4-5877-0P	UOC:A13,H13 ...FAN,CIRCULATING .....	1
114	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC:A13,H13 ...INSULATION SLEEVING,ELECTRICAL .....	2
115	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC:A13,H13 ...FAN,CIRCULATING 24V .....	2
116	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	UOC:A13,H13 ...SCREW,MACHINE .....	8

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TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
117	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	..BOLT,MACHINE ..... UOC:A13,H13	6
118	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT ..... UOC:A13,H13	12
119	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS ..... UOC:A13,H13	1
120	PAOZZ	5340015236759	62534	RD-4-5899-1P	..PLATE,MOUNTING ..... UOC:A13,H13	1
121	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGATION ..... UOC:A13,H13	1
122	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:A13,H13	1
123	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 ..... UOC:A13,H13	4
124	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET ..... UOC:A13,H13	1
125	PAOZZ	TBD	62534	RD-5-7212-1- .375	..SCREW ..... UOC:A13,H13	8
126	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER,ACCESS ..... UOC:A13,H13	2
127	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL ..... UOC:A13,H13	2
128	PAOZZ	5340015251931	62534	RD-4-5968-0P	..PLATE,MOUNTING ..... UOC:A13,H13	1
129	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	..SCREW,ASSEMBLED WASHER ..... UOC:A13,H13	30
130	PAOZZ	5340015232444	62534	RD-4-5875-0P	..BRACKET,MOUNTING ..... UOC:A13,H13	2
131	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	9
132	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:A13,H13	1
133	PAOZZ	5340015251963	62534	RD-4-5951-0P	..DEFLECTOR,DIRT AND LIQUID ..... UOC:A13,H13	1
134	PAOZZ	5340015241884	62534	RD-4-5893-1P	..PLATE,MOUNTING ..... UOC:A13,H13	1
135	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS,BRANCHED CONDENSER ..... UOC:A13,H13	1

END OF FIGURE



1  
2 thru 136

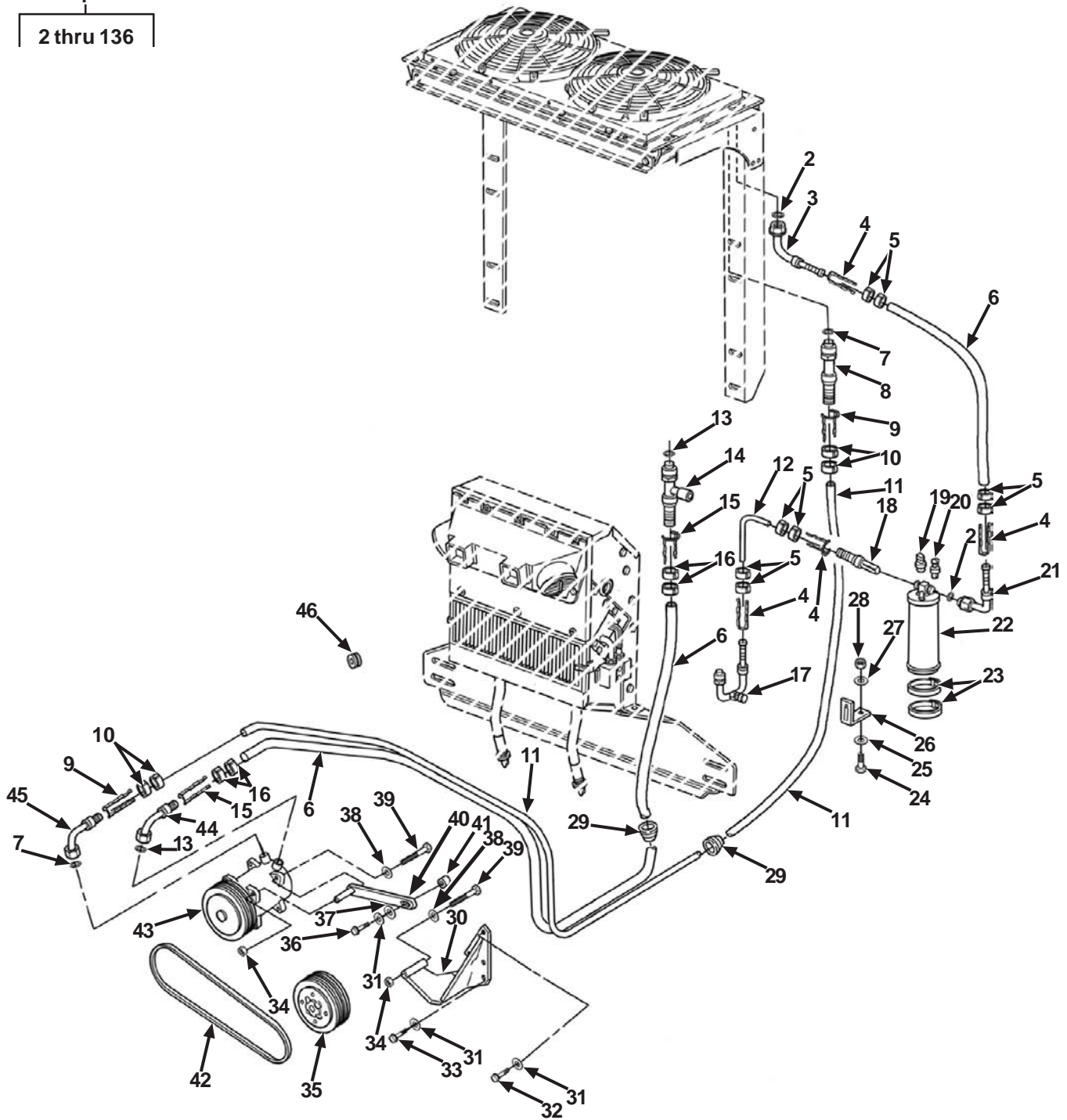


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 1 of 7)

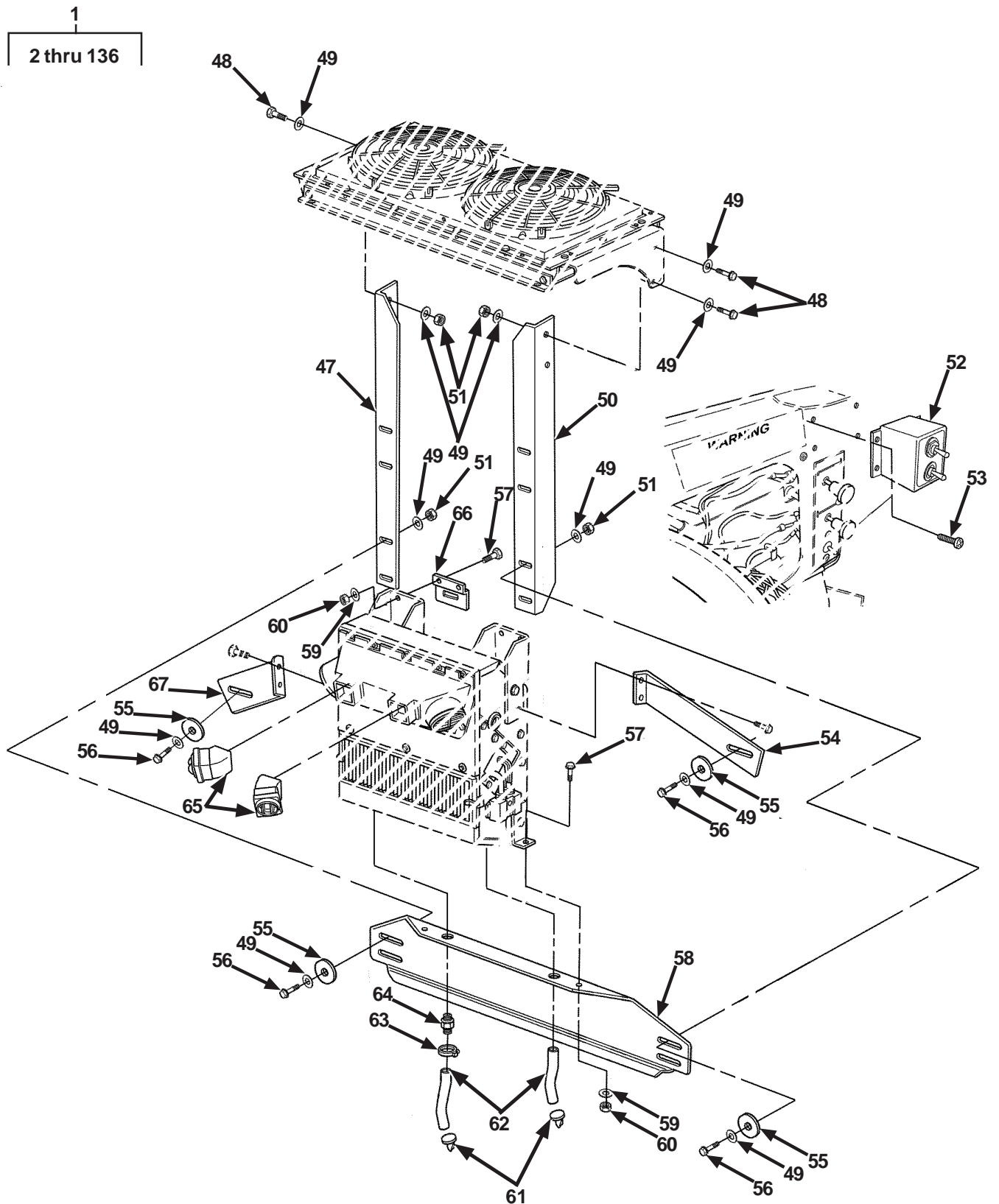


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 2 of 7)

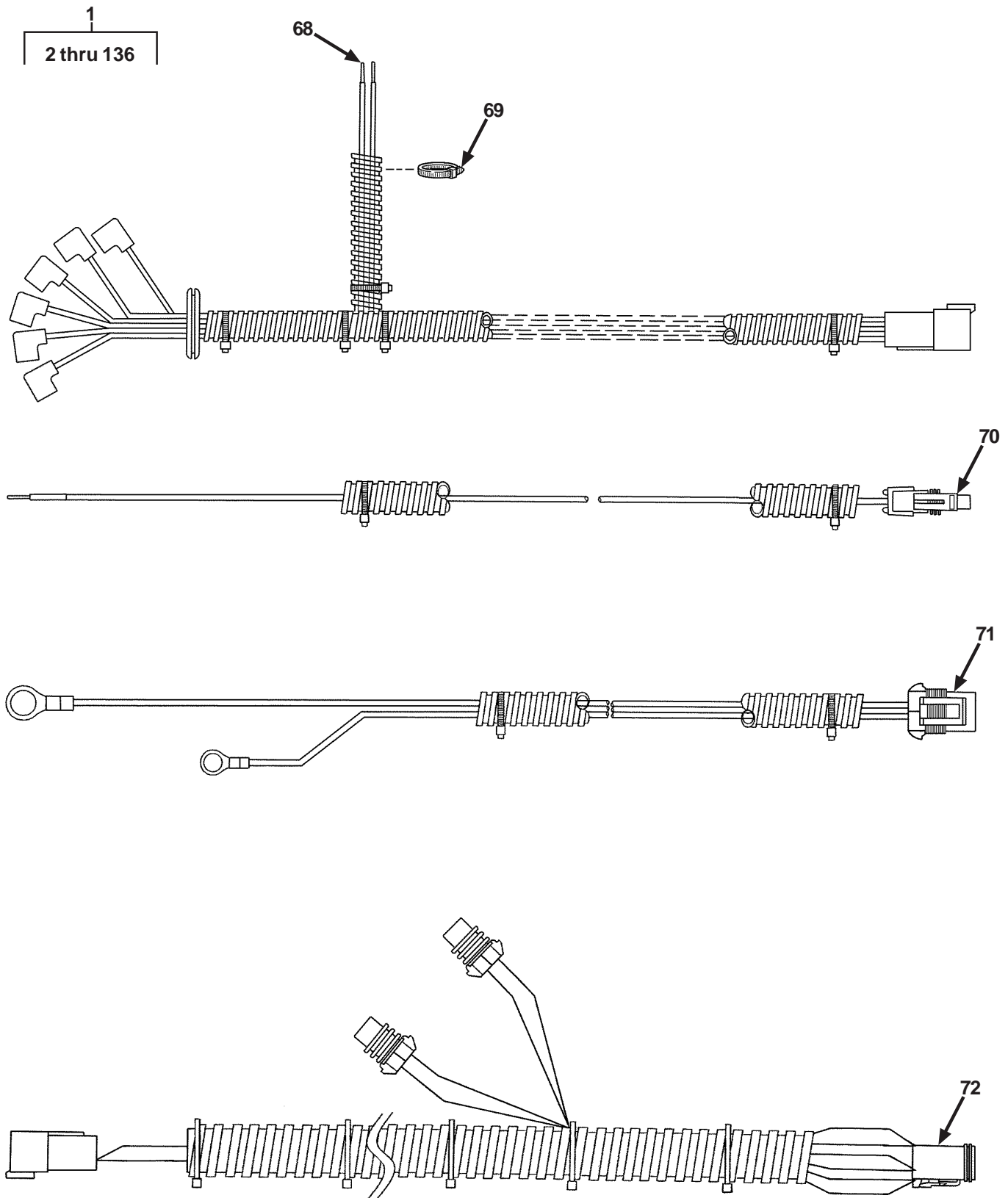


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 3 of 7)



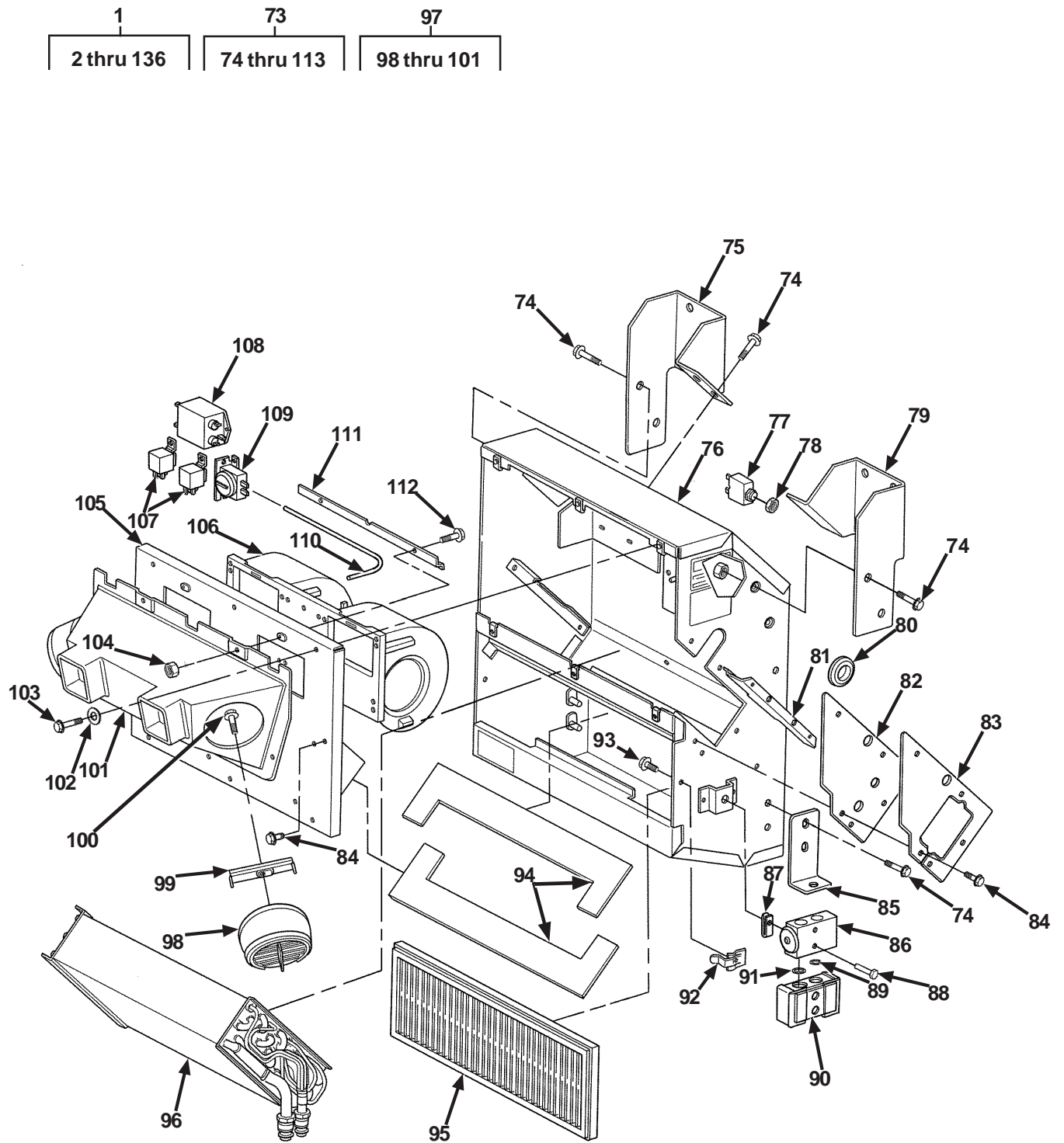


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 4 of 7)

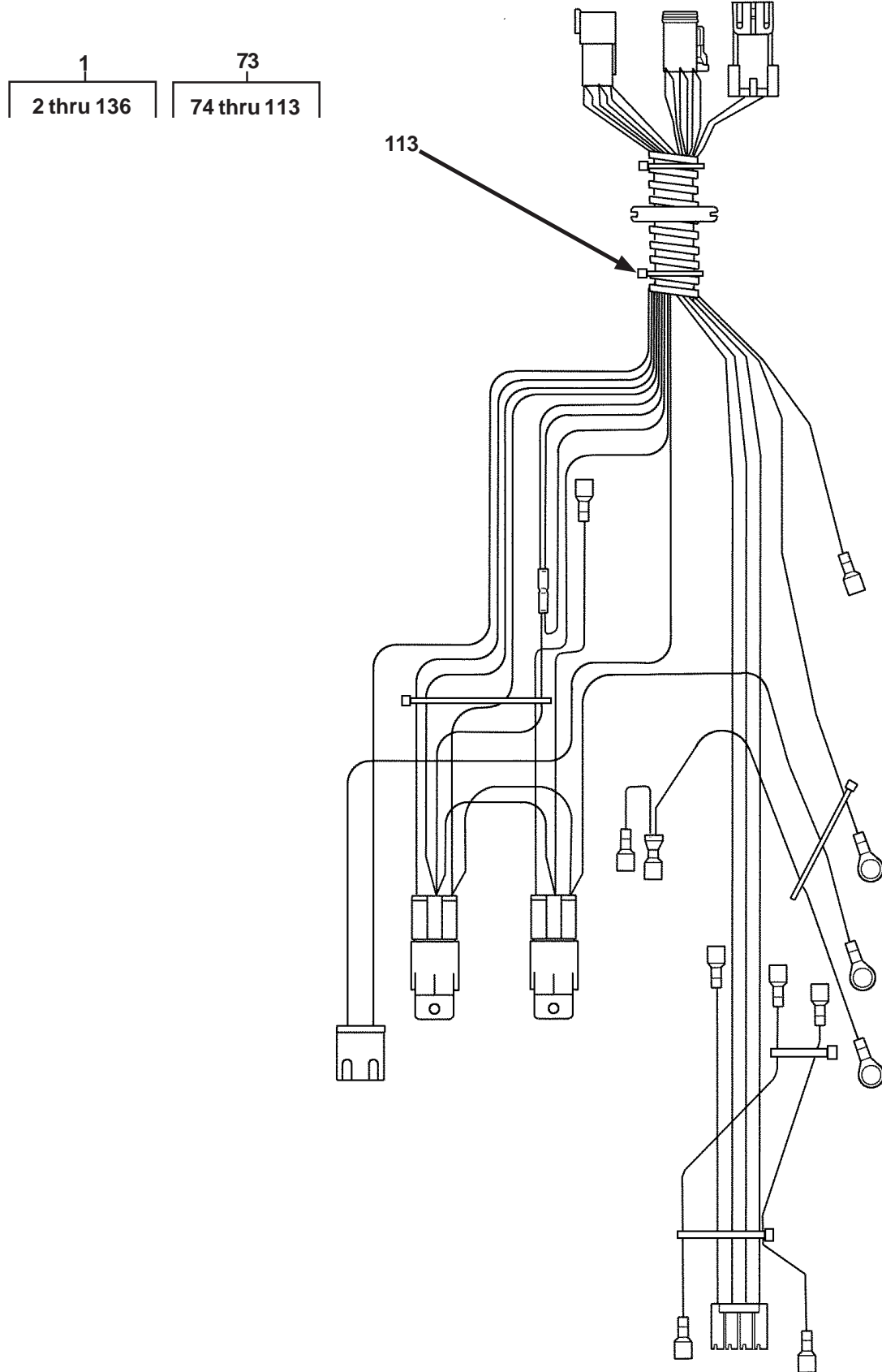


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 5 of 7)

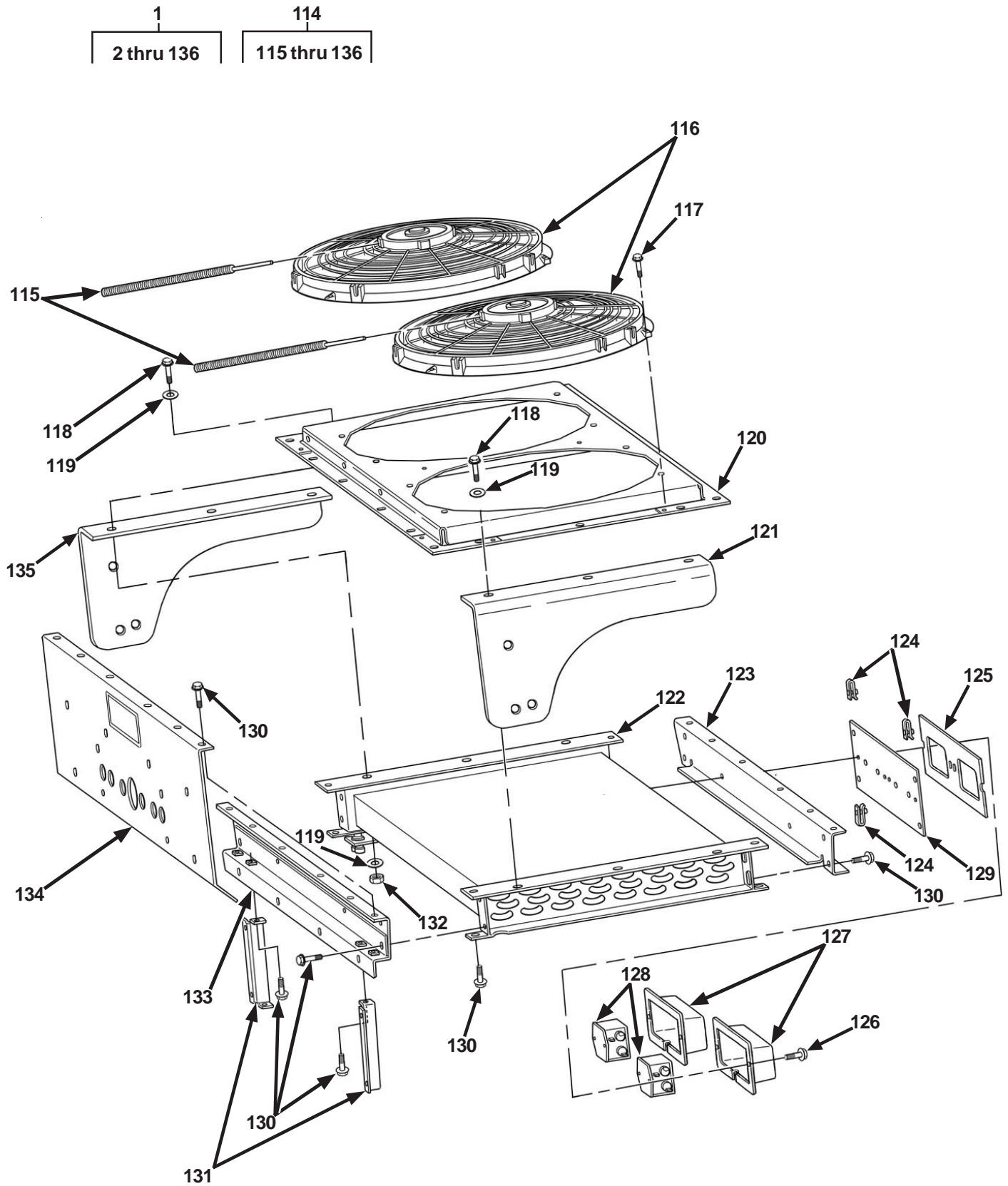


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 6 of 7)

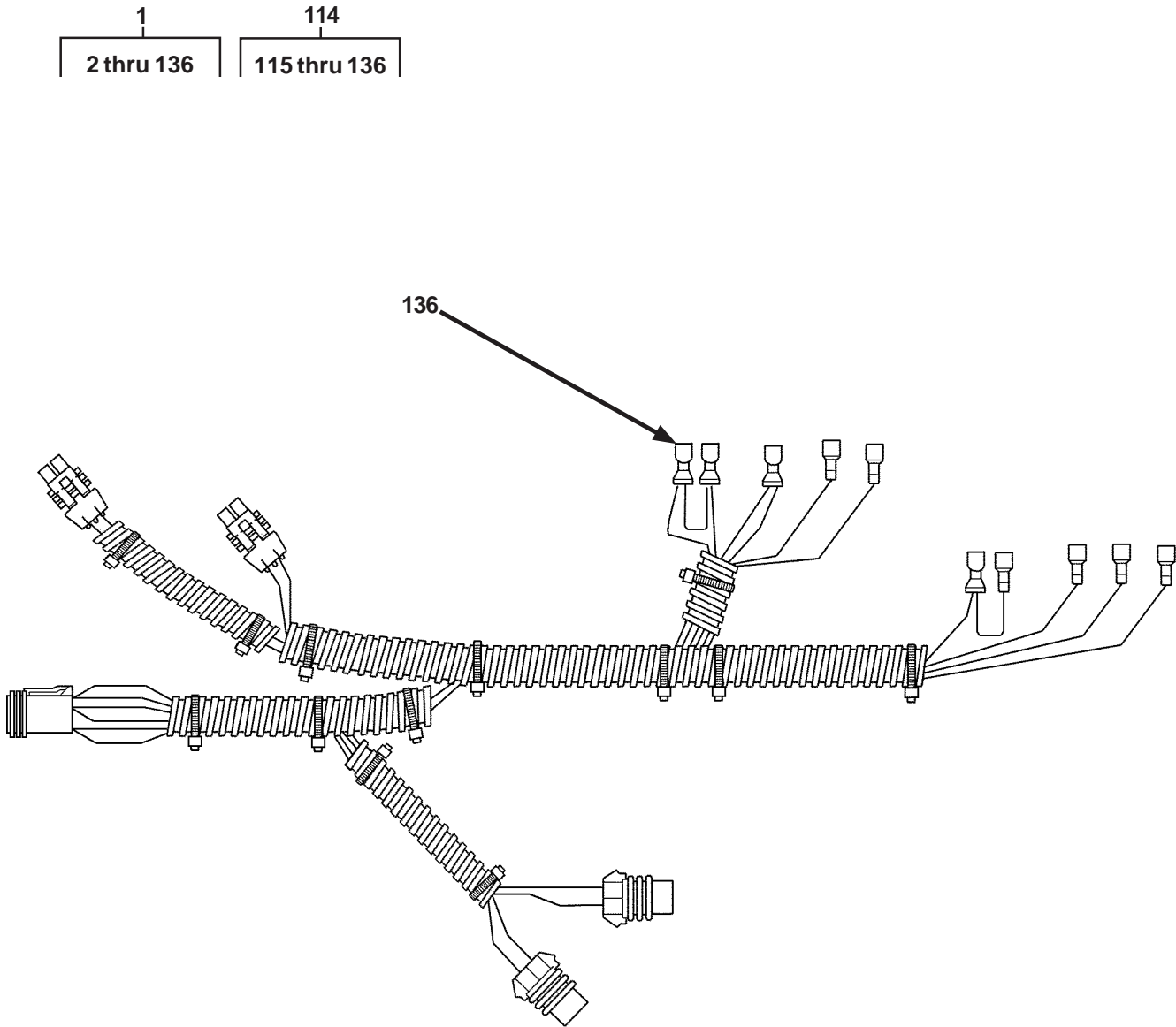


Figure 2. Air Conditioner Kit for M998 and M998A1 Two-Door with GSIE Armor (Sheet 7 of 7)

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 2 AIR CONDITIONER KIT FOR M998 AND M998A1 TWO-DOOR WITH GSIE ARMOR	
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:A13,H13	
2	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:A13,H13	
3	PAOZZ	4730015245104	62534	RD-5-10516-0P	.ELBOW,TUBE #6 45° FEMALE . . . . .	1
					UOC:A13,H13	
4	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	4
					UOC:A13,H13	
5	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP . . . . .	8
					UOC:A13,H13	
6	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE,NONMETALLIC #12 REFRIG . . . . .	1
					UOC:A13,H13	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:A13,H13	
8	PAOZZ	4730015237227	62534	RD-5-10510-0P	.ADAPTER,STRAIGHT . . . . .	1
					UOC:A13,H13	
9	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:A13,H13	
10	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:A13,H13	
11	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE,NONMETALLIC #8 REFRIG . . . . .	1
					UOC:A13,H13	
12	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG . . . . .	1
					UOC:A13,H13	
13	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 . . . . .	2
					UOC:A13,H13	
14	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER,PIPE #10/#12 90° MALE . . . . .	1
					UOC:A13,H13	
15	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE,NONMETALLIC #12 CAGE . . . . .	2
					UOC:A13,H13	
16	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP,HOSE #12 CLIP . . . . .	4
					UOC:A13,H13	
17	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE,METALLIC . . . . .	1
					UOC:A13,H13	
18	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE,METALLIC . . . . .	1
					UOC:A13,H13	
19	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:A13,H13	
20	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:A13,H13	
21	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:A13,H13	
22	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER,LIQUID REFRIGERANT . . . . .	1
					UOC:A13,H13	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP,HOSE ..... UOC:A13,H13	2
24	PAOZZ	5305015258598	62534	RD-5-11433-1- 20	.SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	8
25	PAOZZ	5310015258498	62534	RD-5-4215-0	.WASHER,FLAT ..... UOC:A13,H13	1
26	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW,AIR CONDITIONING-HEATING ..... UOC:A13,H13	1
27	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW,ASSEMBLED WASHER ..... UOC:A13,H13	15
28	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD ..... UOC:A13,H13	9
29	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC ..... UOC:A13,H13	2
30	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET,MOUNTING COMPRESSOR ..... UOC:A13,H13	1
31	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER,LOCK ..... UOC:A13,H13	1
32	PAOZZ	5305015258583	62534	RD-5-6250-0- 55	.SCREW,MACHINE ..... UOC:A13,H13	1
33	PAOZZ	5305015258603	62534	RD-5-6250-0- 30	.SCREW,MACHINE ..... UOC:A13,H13	1
34	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	1
35	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY,GROOVE 5 ..... UOC:A13,H13	1
36	PAOZZ	5305015298139	62534	RD-5-6250-0- 50	.SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	1
37	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER,FLAT 1/8 ..... UOC:A13,H13	1
38	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER,FLAT 1/4 ..... UOC:A13,H13	2
39	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	.SCREW,MACHINE ..... UOC:A13,H13	1
40	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM,ADJUSTING,BELT TENSION ..... UOC:A13,H13	1
41	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER,SLEEVE ..... UOC:A13,H13	1
42	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT,V 44-5/8" ..... UOC:A13,H13	1
43	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR,REFRIGERATION 24V 2A JD ..... UOC:A13,H13	1
44	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW,TUBE TO HOSE #10 TO #12 90° FEMALE ..... UOC:A13,H13	1
45	PAOZZ	4730015234950	62534	RD-5-10517-0P	.ELBOW,TUBE #8 45° FEMALE ..... UOC:A13,H13	1

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
46	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET, NONMETALLIC UOC: A13, H13	1
47	PAOZZ	5340015231579	62534	RD-4-5917-1P	.BRACKET, ANGLE UOC: A13, H13	1
48	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	.BOLT, MACHINE UOC: A13, H13	4
49	PAOZZ	5310015233710	62534	RD-5-11388-0	.WASHER, FLAT UOC: A13, H13	16
50	PAOZZ	5340015237598	62534	RD-4-5916-0	.BRACKET, ANGLE UOC: A13, H13	1
51	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT, SELF-LOCKING, HEXAGON UOC: A13, H13	8
52	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX, ELECTRICAL UOC: A13, H13	1
53	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW, MACHINE UOC: A13, H13	4
54	PAOZZ	5340015233961	62534	RD-2-4221-0P	.BRACKET, MOUNTING EVAPORATOR UOC: A13, H13	1
55	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER, FLAT UOC: A13, H13	4
56	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	.BOLT, MACHINE UOC: A13, H13	4
57	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW, CAP, HEXAGON HEAD UOC: A13, H13	14
58	PAOZZ	5340015231682	62534	RD-2-4219-0P	.BRACKET, MOUNTING EVAPORATOR UOC: A13, H13	1
59	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER, FLAT UOC: A13, H13	14
60	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT, SELF-LOCKING, HEXAGON UOC: A13, H13	14
61	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG, TUBE FITTING, THREADED UOC: A13, H13	2
62	PAOZZ	4720015329536	62534	RD-5-6532-24P	.HOSE, NONMETALLIC UOC: A13, H13	2
63	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP UOC: A13, H13	2
64	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE UOC: A13, H13	2
65	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR, AIR CIRCULATING UOC: A13, H13	2
66	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET, MOUNTING EVAPORATOR, REAR UOC: A13, H13	2
67	PAOZZ	5340015233707	62534	RD-2-4220-0P UOC: A13, H13	.BRACKET, MOUNTING EVAPORATOR	1
68	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS, BRANCHED CONTROL PANEL UOC: A13, H13	1
69	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP, TIEDOWN, ELECTRICAL COMPONENTS	10

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
70	PAOZZ	6150015251625	62534	RD-2-4160-0P	UOC:A13,H13 ..WIRING HARNESS CLUTCH .....	1
71	PAOZZ	6150015253955	62534	RD-2-4163-0P	UOC:A13,H13 ..WIRING HARNESS BATTERY .....	1
72	PAOZZ	6150015330936	62534	RD-4-5958-0P	UOC:A13,H13 ..WIRING HARNESS,BRANCHED .....	1
73	PAOOO	TBD	62534	RD-2-4115	UOC:A13,H13 ..AIR CONDITIONER (SERVICE PARTS R-2400) .....	1
74	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	12
75	PAOZZ	5340015236753	62534	RD-2-4222-0P	UOC:A13,H13 ..BRACKET,MOUNTING .....	1
76	PAOZZ	5340015238425	62534	RD-2-4116-0	UOC:A13,H13 ..COVER,ACCESS .....	1
77	PAOZZ	5925015217620	62534	RD-5-11437-0P	UOC:A13,H13 ..CIRCUIT BREAKER 30 AMP .....	1
78	PAOZZ	5310015252737	62534	RD-5-4133-0M	UOC:A13,H13 ..NUT,PLAIN,HEXAGON 7/16-28 .....	1
79	PAOZZ	5340015231015	62534	RD-2-4222-1	UOC:A13,H13 ..BRACKET,MOUNTING .....	1
80	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC:A13,H13 ..GROMMET,NONMETALLIC .....	1
81	PAOZZ	5340015232793	62534	RD-2-4122-0P	UOC:A13,H13 ..STRAP,RETAINING .....	1
82	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:A13,H13 ..GASKET .....	1
83	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:A13,H13 ..PLATE,RETAINING,SEAL .....	1
84	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	14
85	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:A13,H13 ..BRACKET,ANGLE .....	2
86	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:A13,H13 ..VALVE,EXPANSION R134a 2 TON .....	1
87	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:A13,H13 ..NUT,CLIP M6 .....	1
88	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:A13,H13 ..SCREW,ASSEMBLED WASHER .....	2
89	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:A13,H13 ..O-RING #8 .....	1
90	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:A13,H13 ..COVER,ACCESS .....	1
91	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:A13,H13 ..O-RING #10 .....	1
92	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:A13,H13 ..CLIP,SPRING,TENSION .....	2
93	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:A13,H13 ..RIVET,BLIND .....	2



## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:A13,H13 ..GASKET .....	2
95	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:A13,H13 ..FILTER ELEMENT,AIR CONDITIONING ....	1
96	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:A13,H13 ..EVAPORATOR COIL,REFRIGERATION .....	1
97	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:A13,H13 ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
98	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:A13,H13 ..DIFFUSER,AIR,HEATING AND VENTILATING .....	2
99	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:A13,H13 ..RETAINER-DIFFUSER .....	2
100	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:A13,H13 ..SCREW,ASSEMBLED WASHER .....	1
101	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:A13,H13 ..DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1
102	PAOZZ	5310015179281	62534	RD-5-4556-1	UOC:A13,H13 ..SCREW,ASSEMBLED WASHER .....	6
103	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	6
104	PAOZZ	5310015231558	62534	RD-5-4544-0	UOC:A13,H13 ..NUT,SELF-LOCKING,HEXAGON .....	2
105	PAOZZ	5340015231985	62534	RD-2-4126-0P	UOC:A13,H13 ..COVER,ACCESS .....	1
106	PAOZZ	4140015218532	62534	RD-5-11436-0P	UOC:A13,H13 ..FAN,CENTRIFUGAL 24V .....	1
107	PAOZZ	5945015229738	62534	RD-5-4417-0P	UOC:A13,H13 ..RELAY,ELECTROMAGNETIC .....	2
108	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:A13,H13 ..FILTER ASSEMBLY,ELECTRICAL .....	1
109	PAOZZ	6685015174892	62534	RD-5-11440-0P	UOC:A13,H13 ..THERMOSTAT,FLOW CONTROL .....	1
110	PAOZZ	4710015230548	62534	RD-5-3816-16P	UOC:A13,H13 ..TUBE,BENT,METALLIC 1/8 I.D. ....	1
111	PAOZZ	5340015233993	62534	RD-2-4150-0P	UOC:A13,H13 ..BRACKET,MOUNTING .....	1
112	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	2
113	PAOZZ	6150015214634	62534	RD-2-4153-0P	UOC:A13,H13 ..WIRING HARNESS AIR CONDITIONER ....	1
114	PAOOO	4140015215780	62534	RD-4-5877-0P	UOC:A13,H13 ..FAN,CIRCULATING .....	1
115	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC:A13,H13 ..INSULATION SLEEVING,ELECTRICAL .....	2
116	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC:A13,H13 ..FAN,CIRCULATING 24V .....	2

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
117	PAOZZ	5305015231683	62534	RD-5-8980-1-20	..SCREW,MACHINE UOC:A13,H13	8
118	PAOZZ	5306015231006	62534	RD-5-11390-0-1.500M	..BOLT,MACHINE UOC:A13,H13	6
119	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT UOC:A13,H13	12
120	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS UOC:A13,H13	1
121	PAOZZ	5340015236759	62534	RD-4-5899-1P	..PLATE,MOUNTING UOC:A13,H13	1
122	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGATION UOC:A13,H13	1
123	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME,STRUCTURAL,VEHICULAR UOC:A13,H13	1
124	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 UOC:A13,H13	4
125	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET UOC:A13,H13	1
126	PAOZZ	TBD	62534	RD-5-7212-1-.375	..SCREW UOC:A13,H13	8
127	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER,ACCESS UOC:A13,H13	2
128	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL UOC:A13,H13	2
129	PAOZZ	5340015251931	62534	RD-4-5968-0P	..PLATE,MOUNTING UOC:A13,H13	1
130	PAOZZ	5305015179283	62534	RD-5-8222-1-16	..SCREW,ASSEMBLED WASHER UOC:A13,H13	30
131	PAOZZ	5340015232444	62534	RD-4-5875-0P	..BRACKET,MOUNTING UOC:A13,H13	2
132	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT,SELF-LOCKING,HEXAGON UOC:A13,H13	9
133	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR UOC:A13,H13	1
134	PAOZZ	5340015251963	62534	RD-4-5951-0P	..DEFLECTOR,DIRT AND LIQUID UOC:A13,H13	1
135	PAOZZ	5340015241884	62534	RD-4-5893-1P	..PLATE,MOUNTING UOC:A13,H13	1
136	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS,BRANCHED CONDENSER UOC:A13,H13	1

END OF FIGURE



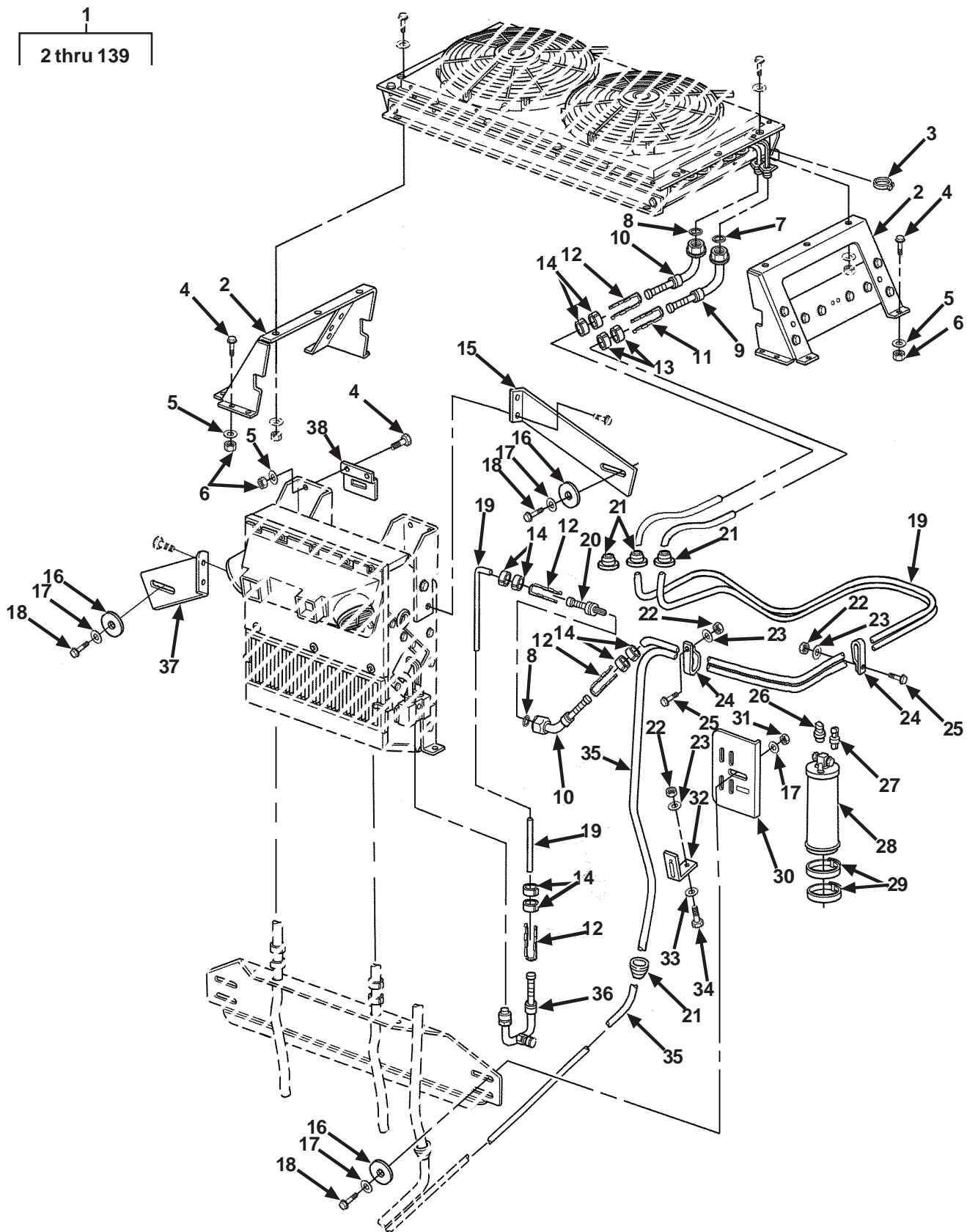


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 1 of 7)

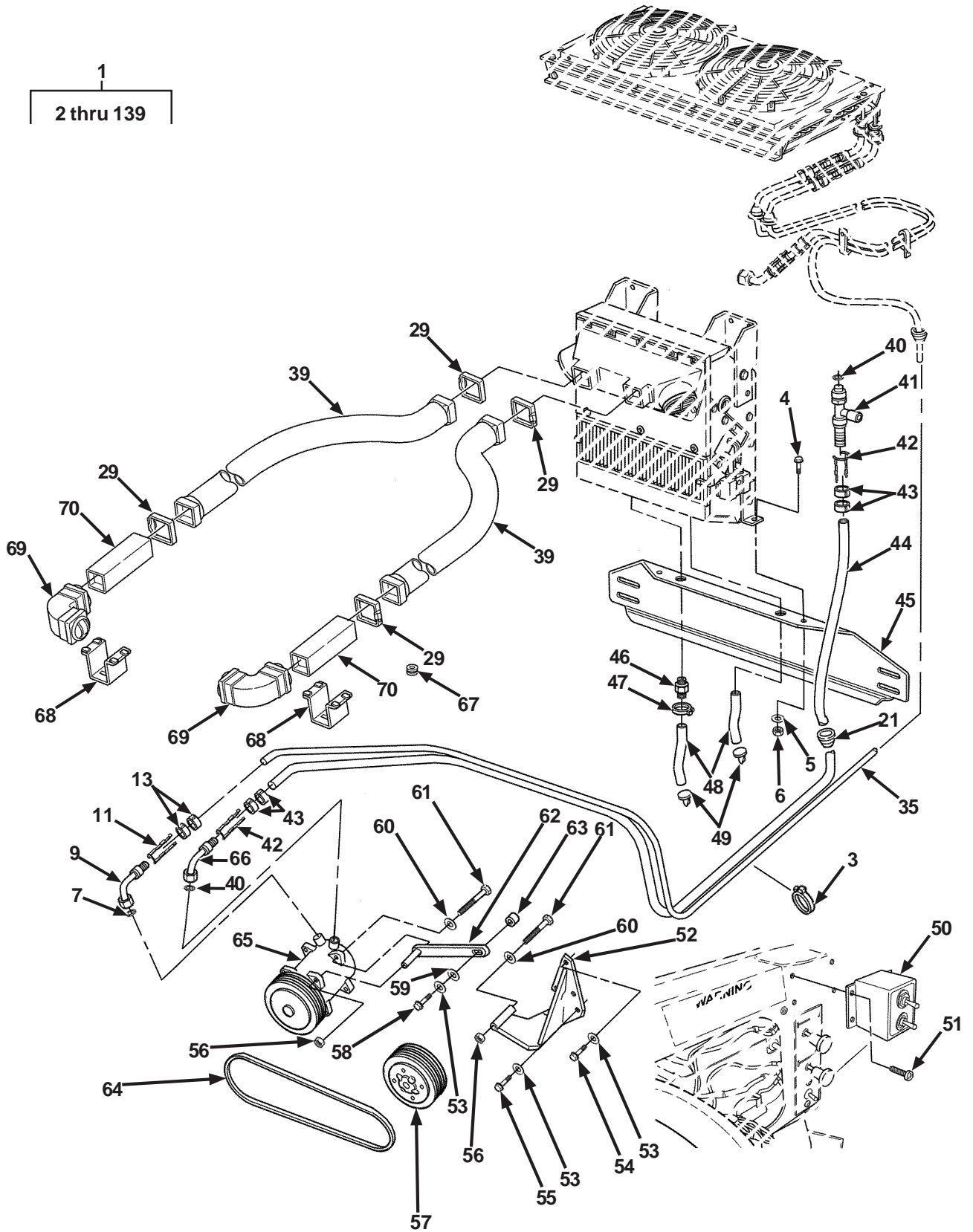


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 2 of 7)

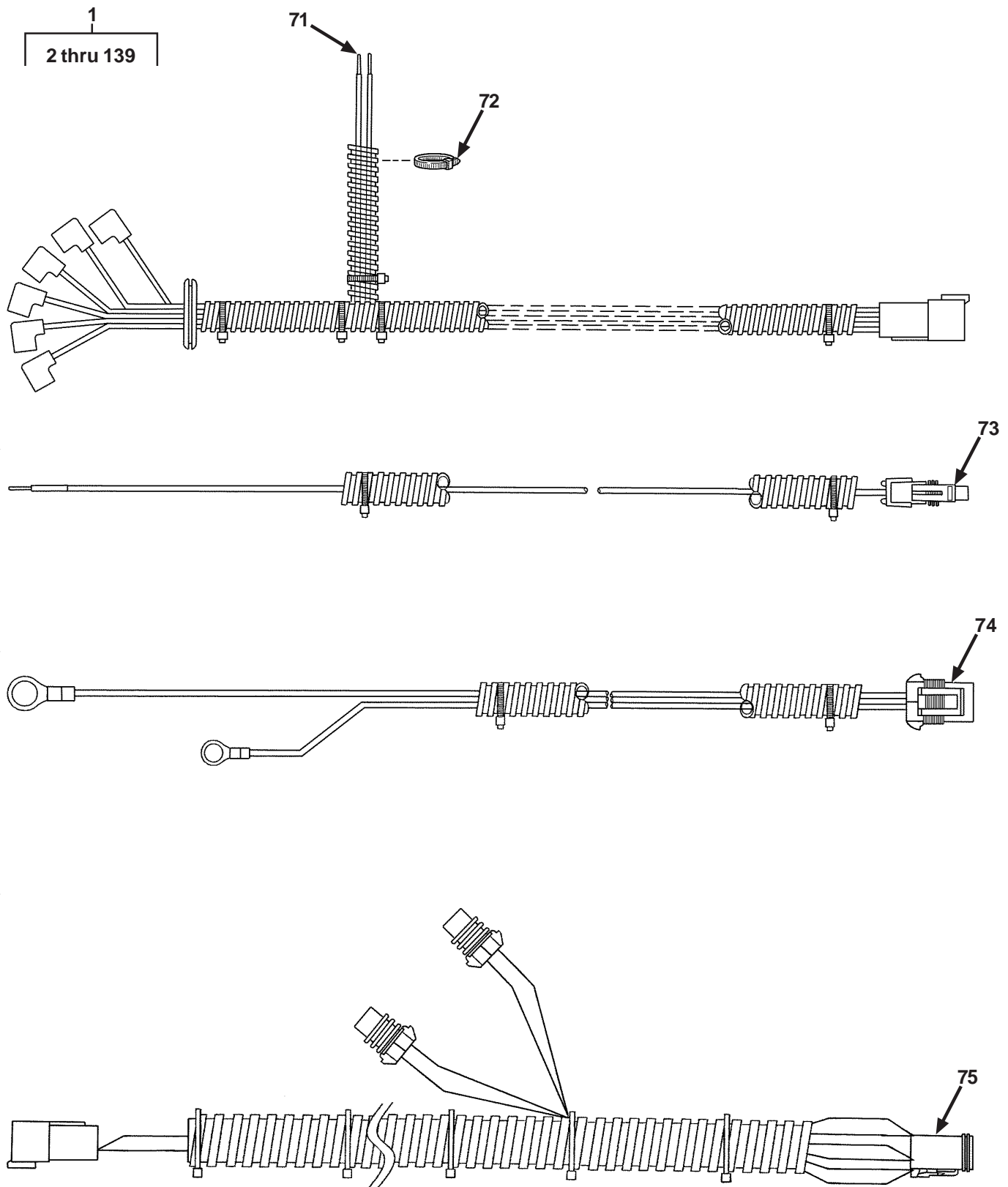


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 3 of 7)

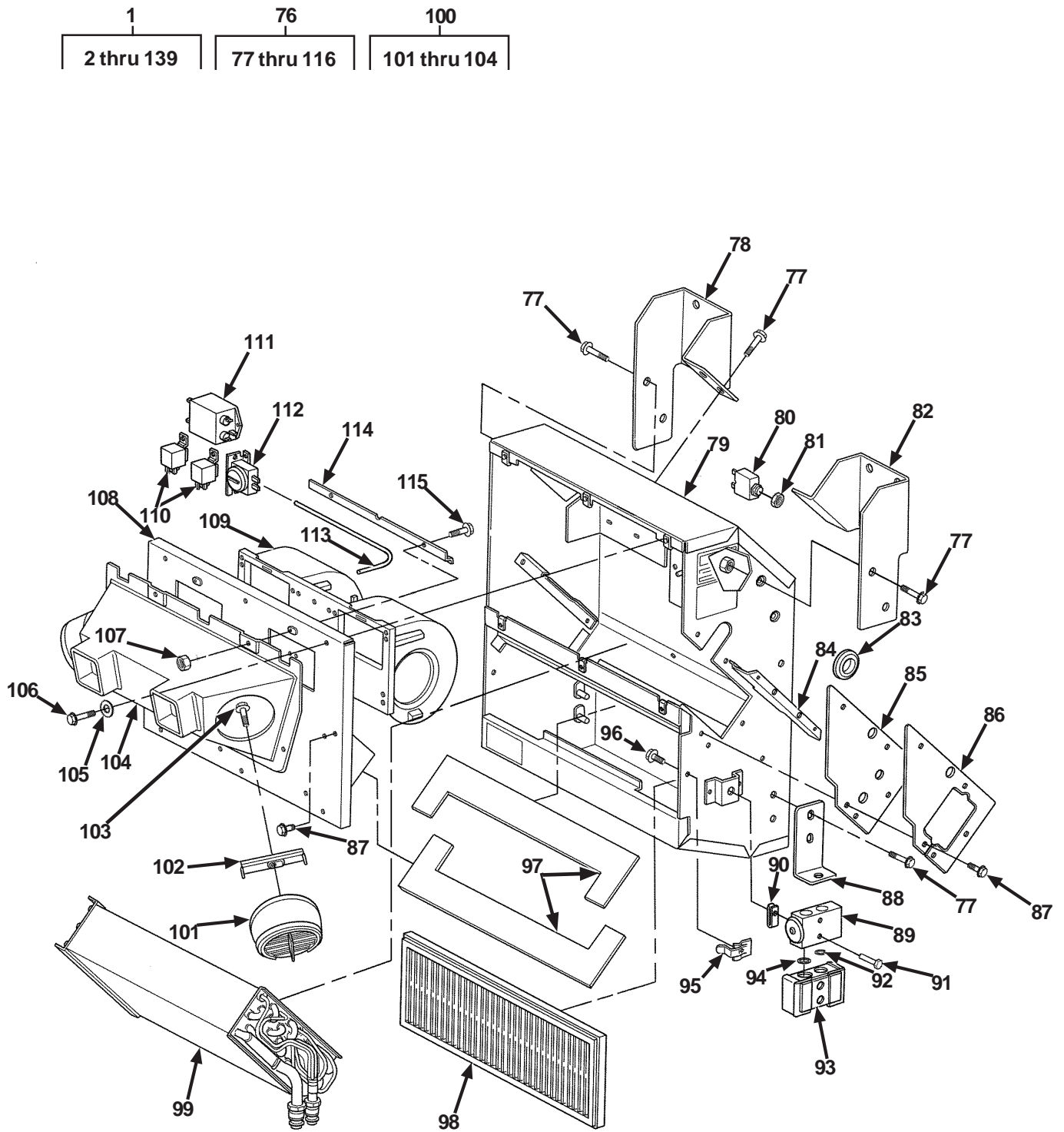


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 4 of 7)

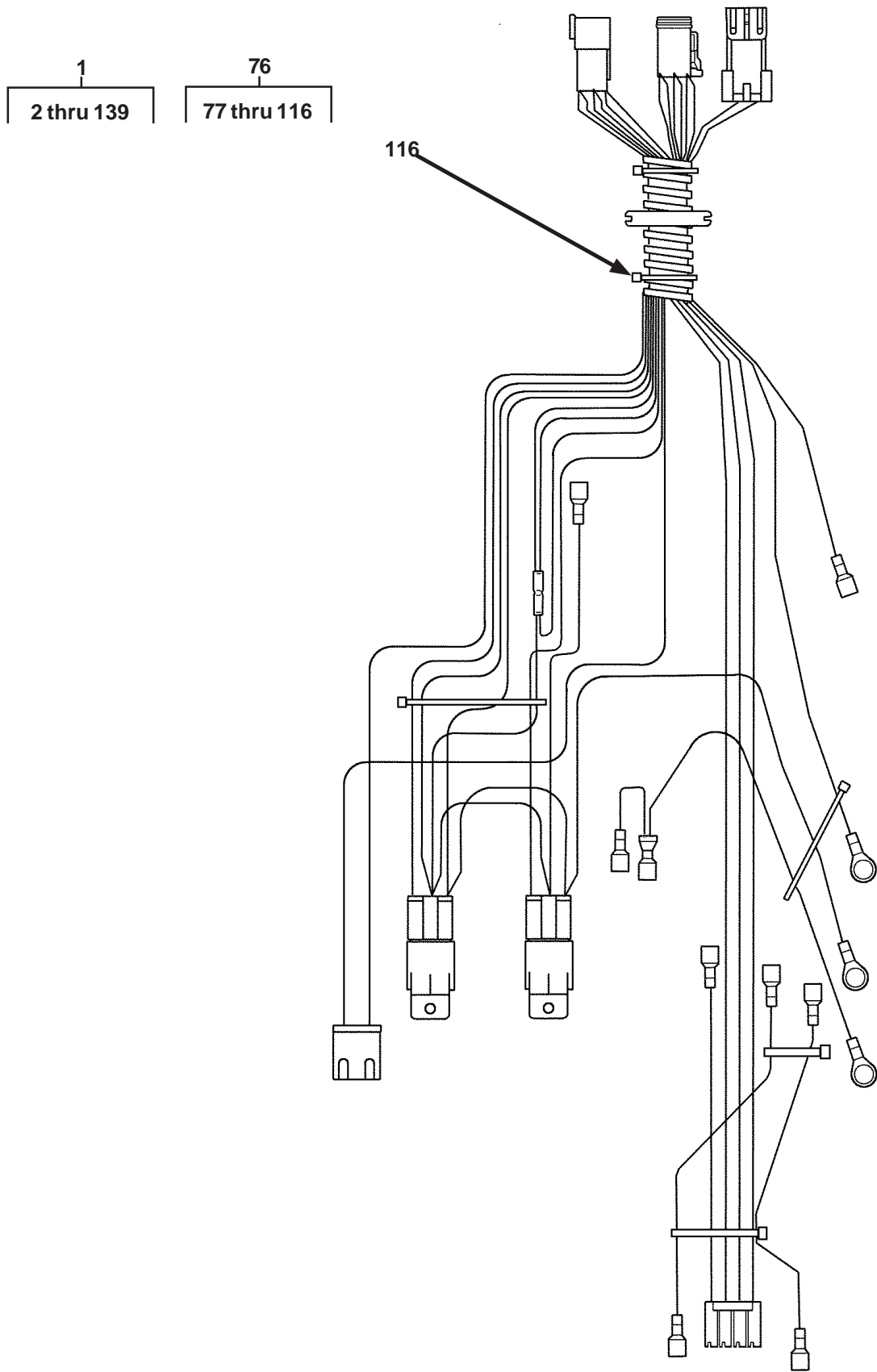


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 5 of 7)



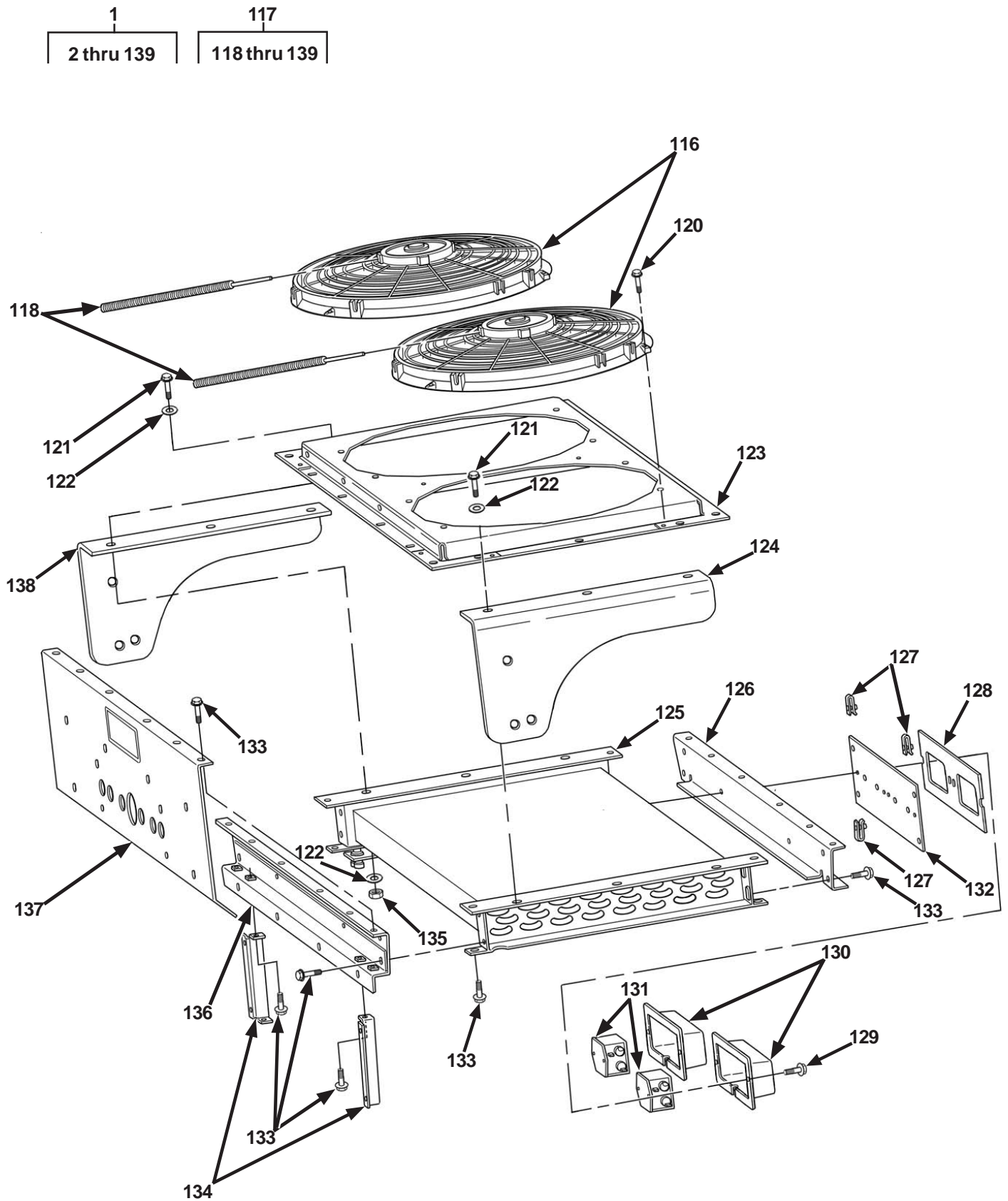


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 6 of 7)

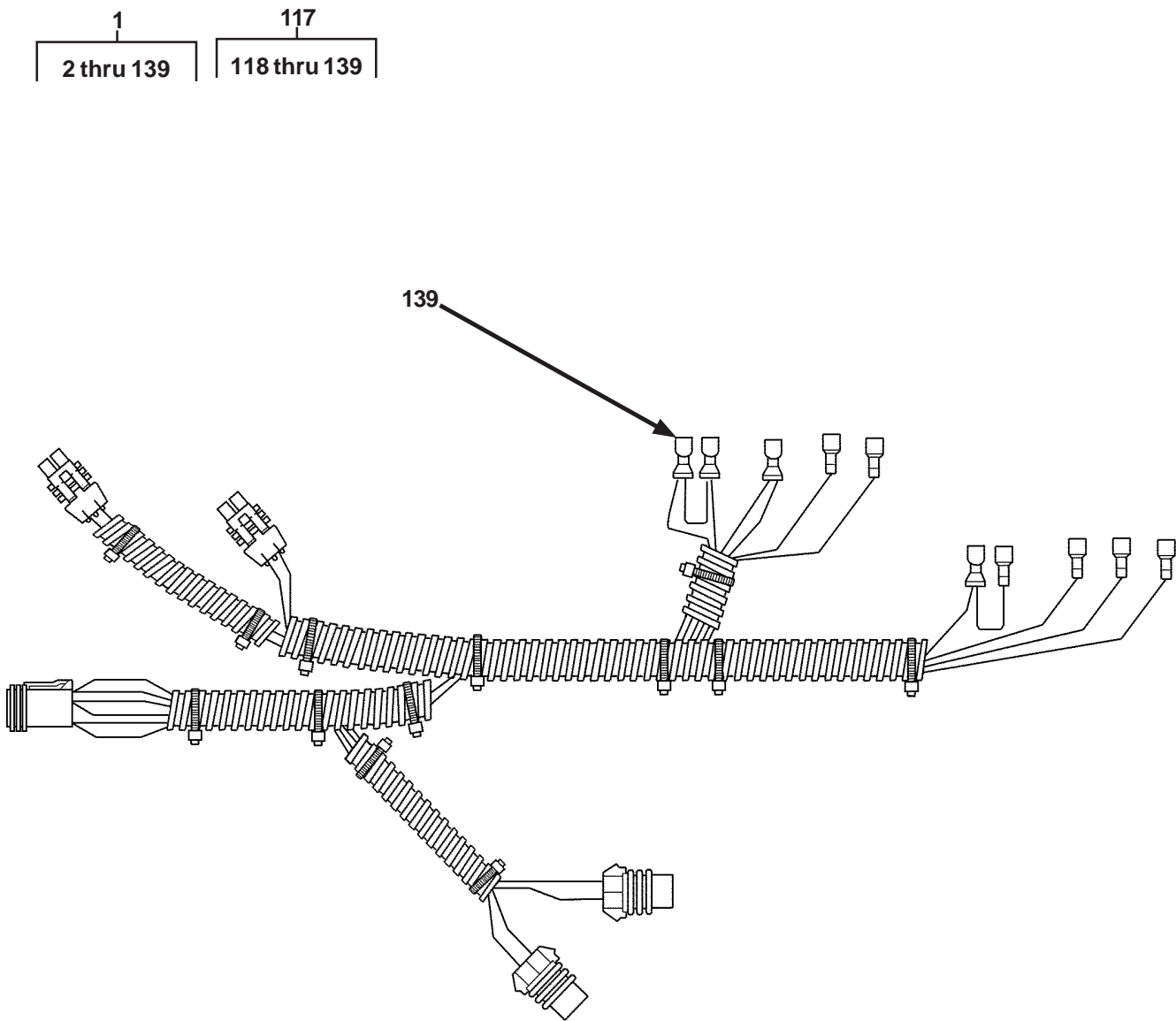


Figure 3. Air Conditioner Kit for M1025 and M1025A1 Four-Door with GSIE Armor (Sheet 7 of 7)

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 3 AIR CONDITIONER KIT FOR M1025 AND M1025A1 FOUR-DOOR WITH GSIE ARMOR	
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:B17,H17	
2	PAOZZ	5340015233687	62534	RD-4-5969-0	.BRACKET,MOUNTING,CONDENSER . . . . .	2
					UOC:B17,H17	
3	PAOZZ	3990015234851	62534	RD-5-6326-0P	.TIE DOWN,CARGO,VEHICLE . . . . .	2
					UOC:B17,H17	
4	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW,CAP,HEXAGON HEAD . . . . .	14
					UOC:B17,H17	
5	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER,FLAT . . . . .	14
					UOC:B17,H17	
6	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT,SELF-LOCKING,HEXAGON . . . . .	14
					UOC:B17,H17	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:B17,H17	
8	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	1
					UOC:B17,H17	
9	PAOZZ	4730015234950	62534	RD-5-10517-0P	.ELBOW,TUBE #8 90° FEMALE . . . . .	2
					UOC:B17,H17	
10	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:B17,H17	
11	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:B17,H17	
12	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	4
					UOC:B17,H17	
13	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:B17,H17	
14	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP . . . . .	8
					UOC:B17,H17	
15	PAOZZ	5340015233961	62534	RD-2-4221-0P	.BRACKET,MOUNTING EVAPORATOR . . . . .	1
					UOC:B17,H17	
16	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER,FLAT . . . . .	4
					UOC:B17,H17	
17	PAOZZ	5310015233710	62534	RD-5-11388-0	.WASHER,FLAT . . . . .	16
					UOC:B17,H17	
18	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	.BOLT,MACHINE . . . . .	4
					UOC:B17,H17	
19	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG . . . . .	1
					UOC:B17,H17	
20	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE,METALLIC . . . . .	1
					UOC:B17,H17	
21	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC . . . . .	5
					UOC:B17,H17	
22	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD . . . . .	9
					UOC:B17,H17	

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW, ASSEMBLED WASHER UOC: B17, H17	15
24	PAOZZ	4730015299380	62534	RD-5-4400-0	.CLAMP, HOSE UOC: B17, H17	2
25	PAOZZ	5305015257700	62534	RD-5-5743-0- 30	.SCREW, CAP, HEXAGON HEAD UOC: B17, H17	2
26	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH, PRESSURE UOC: B17, H17	1
27	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH, PRESSURE UOC: B17, H17	1
28	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER, LIQUID REFRIGERANT UOC: B17, H17	1
29	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP, HOSE UOC: B17, H17	2
30	PAOZZ	5340015248775	62534	RD-4-5949-0P	.BRACKET, MOUNTING UOC: B17, H17	1
31	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT, SELF-LOCKING, HEXAGON UOC: B17, H17	14
32	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW, AIR CONDITIONING-HEATING UOC: B17, H17	1
33	PAOZZ	5310015258498	62534	RD-5-4215-0	.WASHER, FLAT UOC: B17, H17	1
34	PAOZZ	5305015258598	62534	RD-5-11433-1- 20	.SCREW, CAP, HEXAGON HEAD UOC: B17, H17	8
35	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE, NONMETALLIC #8 REFRIG UOC: B17, H17	1
36	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE, METALLIC UOC: B17, H17	1
37	PAOZZ	5340015233707	62534	RD-2-4220-0P	.BRACKET, MOUNTING EVAPORATOR UOC: B17, H17	1
38	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET, MOUNTING EVAPORATOR, REAR UOC: B17, H17	2
39	PAOZZ	4720015230403	62534	RD-5-3930-60P	.HOSE, NONMETALLIC 3" ID UOC: B17, H17	1
40	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 UOC: B17, H17	2
41	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER, PIPE #10/#12 90° MALE UOC: B17, H17	1
42	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE, NONMETALLIC #12 CAGE UOC: B17, H17	2
43	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP, HOSE #12 CLIP UOC: B17, H17	4
44	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE, NONMETALLIC #12 REFRIG UOC: B17, H17	1
45	PAOZZ	5340015231682	62534	RD-2-4219-0P	.BRACKET, MOUNTING EVAPORATOR UOC: B17, H17	1
46	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE UOC: B17, H17	2
47	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP	2

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
48	PAOZZ	4720015329536	62534	RD-5-6532-24P	UOC: B17, H17 .HOSE, NONMETALLIC . . . . .	2
49	PAOZZ	4730015234097	62534	RD-5-5901-0P	UOC: B17, H17 .PLUG, TUBE FITTING, THREADED . . . . .	2
50	PAOZZ	2540015217737	62534	RD-2-4158-0P	UOC: B17, H17 .CONTROL BOX, ELECTRICAL . . . . .	1
51	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	UOC: B17, H17 .SCREW, MACHINE . . . . .	4
52	PAOZZ	5340015263469	62534	RD-9-10027-0	UOC: B17, H17 .BRACKET, MOUNTING COMPRESSOR . . . . .	1
53	PAOZZ	5310015264993	62534	RD-5-6139-0	UOC: B17, H17 .WASHER, LOCK . . . . .	1
54	PAOZZ	5305015258583	62534	RD-5-6250-0- 55	UOC: B17, H17 .SCREW, MACHINE . . . . .	1
55	PAOZZ	5305015258603	62534	RD-5-6250-0- 30	UOC: B17, H17 .SCREW, MACHINE . . . . .	1
56	PAOZZ	5310015258620	62534	RD-5-9377-0	UOC: B17, H17 .NUT, SELF-LOCKING, HEXAGON . . . . .	1
57	PAOZZ	3020015242457	62534	RD-5-11409-0P	UOC: B17, H17 .PULLEY, GROOVE 5 . . . . .	1
58	PAOZZ	5305015298139	62534	RD-5-6250-0- 50	UOC: B17, H17 .SCREW, CAP, HEXAGON HEAD . . . . .	1
59	PAOZZ	5310015256841	62534	RD-5-6261-0	UOC: B17, H17 .WASHER, FLAT 1/8 . . . . .	1
60	PAOZZ	5310015259051	62534	RD-5-6260-0	UOC: B17, H17 .WASHER, FLAT 1/4 . . . . .	2
61	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	UOC: B17, H17 .SCREW, MACHINE . . . . .	1
62	PAOZZ	2920012565910	62534	RD-9-10032-0	UOC: B17, H17 .ARM, ADJUSTING, BELT TENSION . . . . .	1
63	PAOZZ	5365015258531	62534	RD-5-6296-.750	UOC: B17, H17 .SPACER, SLEEVE . . . . .	1
64	PAOZZ	3030015242455	62534	RD-5-11406-0P	UOC: B17, H17 .BELT, V 44-5/8" . . . . .	1
65	PAOZZ	4130015217816	62534	RD-5-11393-0P	UOC: B17, H17 .COMPRESSOR, REFRIGERATION 24V 2A JD . . . . .	1
66	PAOZZ	4730015236296	62534	RD-5-10525-0P	UOC: B17, H17 .ELBOW, TUBE TO HOSE #10 TO #12 90° FEMALE . . . . .	1
67	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC: B17, H17 .GROMMET, NONMETALLIC . . . . .	1
68	PAOZZ	5340015258661	62534	RD-2-4167-1	UOC: B17, H17 .BRACKET, MOUNTING B PILLAR TOP . . . . .	2
69	PAOZZ	2540015268372	62534	RD-2-4162-0	UOC: B17, H17 .VENTILATOR, AIR CIRCULATING . . . . .	2
70	PAOZZ	TBD	62534	RD-5-6676-8	UOC: B17, H17 .DUCT . . . . .	2

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
71	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS, BRANCHED CONTROL PANEL ..... UOC: B17, H17	1
72	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP, TIEDOWN, ELECTRICAL COMPONENTS ..... UOC: B17, H17	10
73	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH ..... UOC: B17, H17	1
74	PAOZZ	6150015253955	62534	RD-2-4163-0P	.WIRING HARNESS BATTERY ..... UOC: B17, H17	1
75	PAOZZ	6150015330936	62534	RD-4-5958-0P	.WIRING HARNESS, BRANCHED ..... UOC: B17, H17	1
76	PAOOO	TBD	62534	RD-2-4115	.AIR CONDITIONER (SERVICE PARTS R-2400) ..... UOC: B17, H17	1
77	PAOZZ	5305015232459	62534	RD-5-5351-1-25	..SCREW, CAP, HEXAGON HEAD ..... UOC: B17, H17	12
78	PAOZZ	5340015236753	62534	RD-2-4222-0P	..BRACKET, MOUNTING ..... UOC: B17, H17	1
79	PAOZZ	5340015238425	62534	RD-2-4116-0	..COVER, ACCESS ..... UOC: B17, H17	1
80	PAOZZ	5925015217620	62534	RD-5-11437-0P	..CIRCUIT BREAKER 30 AMP ..... UOC: B17, H17	1
81	PAOZZ	5310015252737	62534	RD-5-4133-0M	..NUT, PLAIN, HEXAGON 7/16-28 ..... UOC: B17, H17	1
82	PAOZZ	5340015231015	62534	RD-2-4222-1	..BRACKET, MOUNTING ..... UOC: B17, H17	1
83	PAOZZ	5325015248831	62534	RD-5-4053-0P	..GROMMET, NONMETALLIC ..... UOC: B17, H17	1
84	PAOZZ	5340015232793	62534	RD-2-4122-0P	..STRAP, RETAINING ..... UOC: B17, H17	1
85	PAOZZ	5330015233722	62534	RD-2-4136-0P	..GASKET ..... UOC: B17, H17	1
86	PAOZZ	5340015233992	62534	RD-2-4128-0P	..PLATE, RETAINING, SEAL ..... UOC: B17, H17	1
87	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	..SCREW, CAP, HEXAGON HEAD ..... UOC: B17, H17	14
88	PAOZZ	5340015241893	62534	RD-2-4142-0	..BRACKET, ANGLE ..... UOC: B17, H17	2
89	PAOZZ	4820015177304	62534	RD-5-11438-0P	..VALVE, EXPANSION R134a 2 TON ..... UOC: B17, H17	1
90	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT, CLIP M6 ..... UOC: B17, H17	1
91	PAOZZ	5305015179757	62534	RD-5-5743-0-40	..SCREW, ASSEMBLED WASHER ..... UOC: B17, H17	2
92	PAOZZ	5331015249812	62534	RD-5-11016-0P	..O-RING #8 ..... UOC: B17, H17	1
93	PAOZZ	5340015242263	62534	RD-5-8410-0	..COVER, ACCESS ..... UOC: B17, H17	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5331015247872	62534	RD-5-11017-0P	..O-RING #10 ..... UOC:B17,H17	1
95	PAOZZ	5340015178600	62534	RD-5-6239-0	..CLIP, SPRING, TENSION ..... UOC:B17,H17	2
96	PAOZZ	5320015205086	62534	RD-5-5345-0	..RIVET, BLIND ..... UOC:B17,H17	2
97	PAOZZ	5330015233964	62534	RD-2-4149-0P	..GASKET ..... UOC:B17,H17	2
98	PAOZZ	4130015217486	62534	RD-2-4132-0P	..FILTER ELEMENT, AIR CONDITIONING .... UOC:B17,H17	1
99	PAOZZ	4130015216442	62534	RD-2-4129-0P	..EVAPORATOR COIL, REFRIGERATION ..... UOC:B17,H17	1
100	PAOOO	2540015217709	62534	RD-2-4169-0P	..DUCT ASSEMBLY, AIR CONDITIONING ..... UOC:B17,H17	1
101	PAOZZ	2540015360012	62534	RD-5-5223-2	...DIFFUSER, AIR HEATING AND VENTILATING ..... UOC:B17,H17	2
102	PAOZZ	4520015324463	62534	RD-2-4131-0P	...RETAINER-DIFFUSER ..... UOC:B17,H17	2
103	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	...SCREW, ASSEMBLED WASHER ..... UOC:B17,H17	1
104	PAOZZ	2540015360113	62534	RD-2-4152-0P	...DUCT ASSEMBLY, AIR CONDITIONING- HEATING, VEHICULAR ..... UOC:B17,H17	1
105	PAOZZ	5310015179281	62534	RD-5-4556-1	..SCREW, ASSEMBLED WASHER ..... UOC:B17,H17	6
106	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	..SCREW, CAP, HEXAGON HEAD ..... UOC:B17,H17	6
107	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT, SELF-LOCKING, HEXAGON ..... UOC:B17,H17	2
108	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER, ACCESS ..... UOC:B17,H17	1
109	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN, CENTRIFUGAL 24V ..... UOC:B17,H17	1
110	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY, ELECTROMAGNETIC ..... UOC:B17,H17	2
111	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY, ELECTRICAL ..... UOC:B17,H17	1
112	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT, FLOW CONTROL ..... UOC:B17,H17	1
113	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE, BENT, METALLIC 1/8 I.D. .... UOC:B17,H17	1
114	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET, MOUNTING ..... UOC:B17,H17	1
115	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	..SCREW, CAP, HEXAGON HEAD ..... UOC:B17,H17	2
116	PAOZZ	6150015214634	62534	RD-2-4153-0P	..WIRING HARNESS AIR CONDITIONER .... UOC:B17,H17	1
117	PAOOO	4140015215780	62534	RD-4-5877-0P	..FAN, CIRCULATING ..... UOC:B17,H17	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
118	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC: B17, H17 .. INSULATION SLEEVING, ELECTRICAL	2
119	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC: B17, H17 .. FAN, CIRCULATING 24V	2
120	PAOZZ	5305015231683	62534	RD-5-8980-1-20	UOC: B17, H17 .. SCREW, MACHINE	8
121	PAOZZ	5306015231006	62534	RD-5-11390-0-1.500M	UOC: B17, H17 .. BOLT, MACHINE	6
122	PAOZZ	5310015233710	62534	RD-5-11388-0	UOC: B17, H17 .. WASHER, FLAT	12
123	PAOZZ	5340015244491	62534	RD-4-59140P	UOC: B17, H17 .. COVER, ACCESS	1
124	PAOZZ	5340015236759	62534	RD-4-5899-1P	UOC: B17, H17 .. PLATE, MOUNTING	1
125	PAOZZ	4130015215757	62534	RD-4-5857-0P	UOC: B17, H17 .. CONDENSER COIL, REFRIGATION	1
126	PAOZZ	2510015233685	62534	RD-4-5921-0P	UOC: B17, H17 .. FRAME, STRUCTURAL, VEHICULAR	1
127	PAOZZ	TBD	62534	RD-5-5679-0P	UOC: B17, H17 .. NUT, CLIP M6	4
128	PAOZZ	5330015233709	62534	RD-4-5947-0P	UOC: B17, H17 .. GASKET	1
129	PAOZZ	TBD	62534	RD-5-7212-1-.375	UOC: B17, H17 .. SCREW	8
130	PAOZZ	5340015232408	62534	RD-4-5886-0P	UOC: B17, H17 .. COVER, ACCESS	2
131	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC: B17, H17 .. FILTER ASSEMBLY, ELECTRICAL	2
132	PAOZZ	5340015251931	62534	RD-4-5968-0P	UOC: B17, H17 .. PLATE, MOUNTING	1
133	PAOZZ	5305015179283	62534	RD-5-8222-1-16	UOC: B17, H17 .. SCREW, ASSEMBLED WASHER	30
134	PAOZZ	5340015232444	62534	RD-4-5875-0P	UOC: B17, H17 .. BRACKET, MOUNTING	2
135	PAOZZ	5310015232651	62534	RD-5-11392-0	UOC: B17, H17 .. NUT, SELF-LOCKING, HEXAGON	9
136	PAOZZ	2510015233670	62534	RD-4-59220P	UOC: B17, H17 .. FRAME, STRUCTURAL, VEHICULAR	1
137	PAOZZ	5340015251963	62534	RD-4-5951-0P	UOC: B17, H17 .. DEFLECTOR, DIRT AND LIQUID	1
138	PAOZZ	5340015241884	62534	RD-4-5893-1P	UOC: B17, H17 .. PLATE, MOUNTING	1
139	PAOZZ	6150015215712	62534	RD-4-5913-0P	UOC: B17, H17 .. WIRING HARNESS, BRANCHED CONDENSER	1

END OF FIGURE



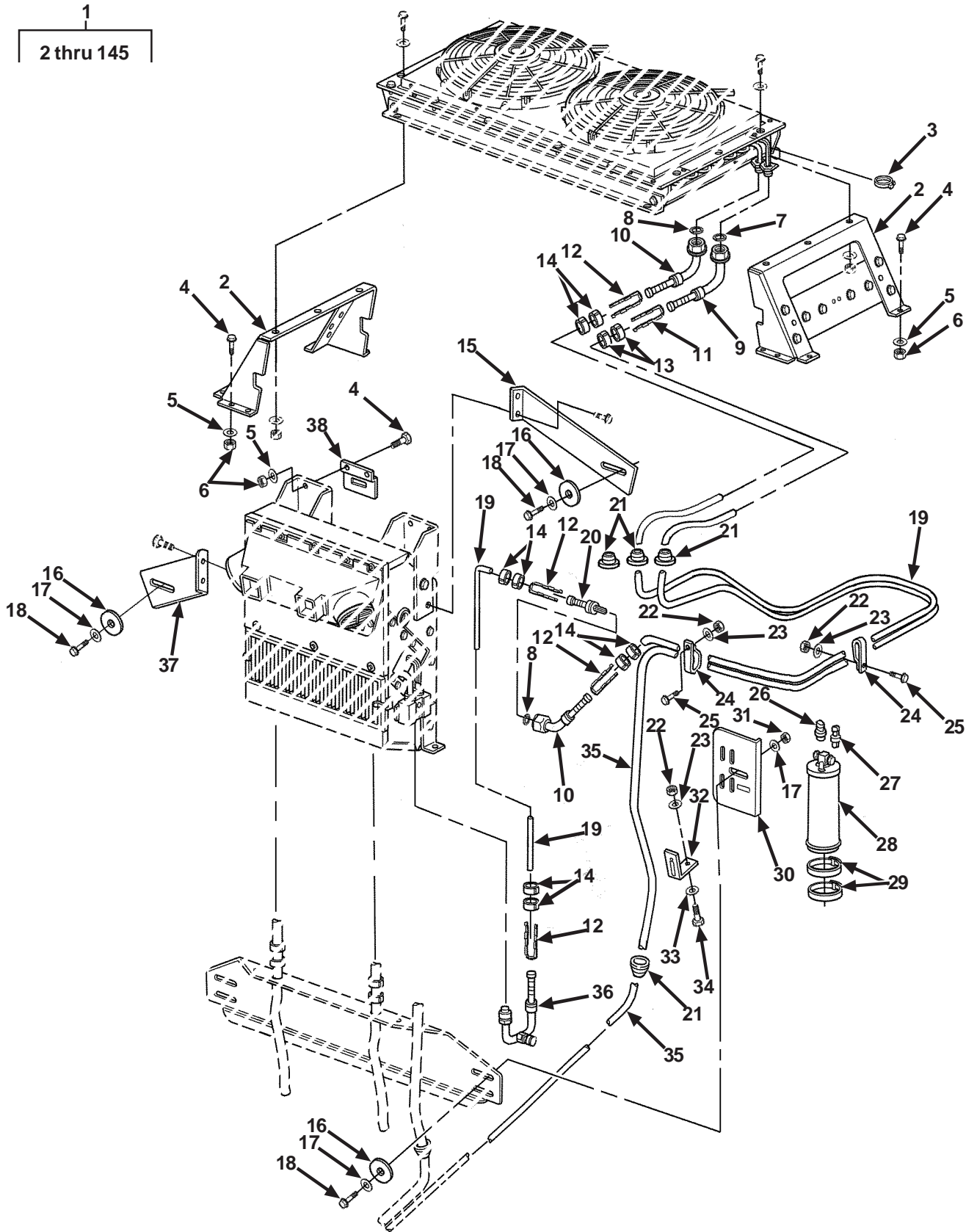


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 1 of 8)

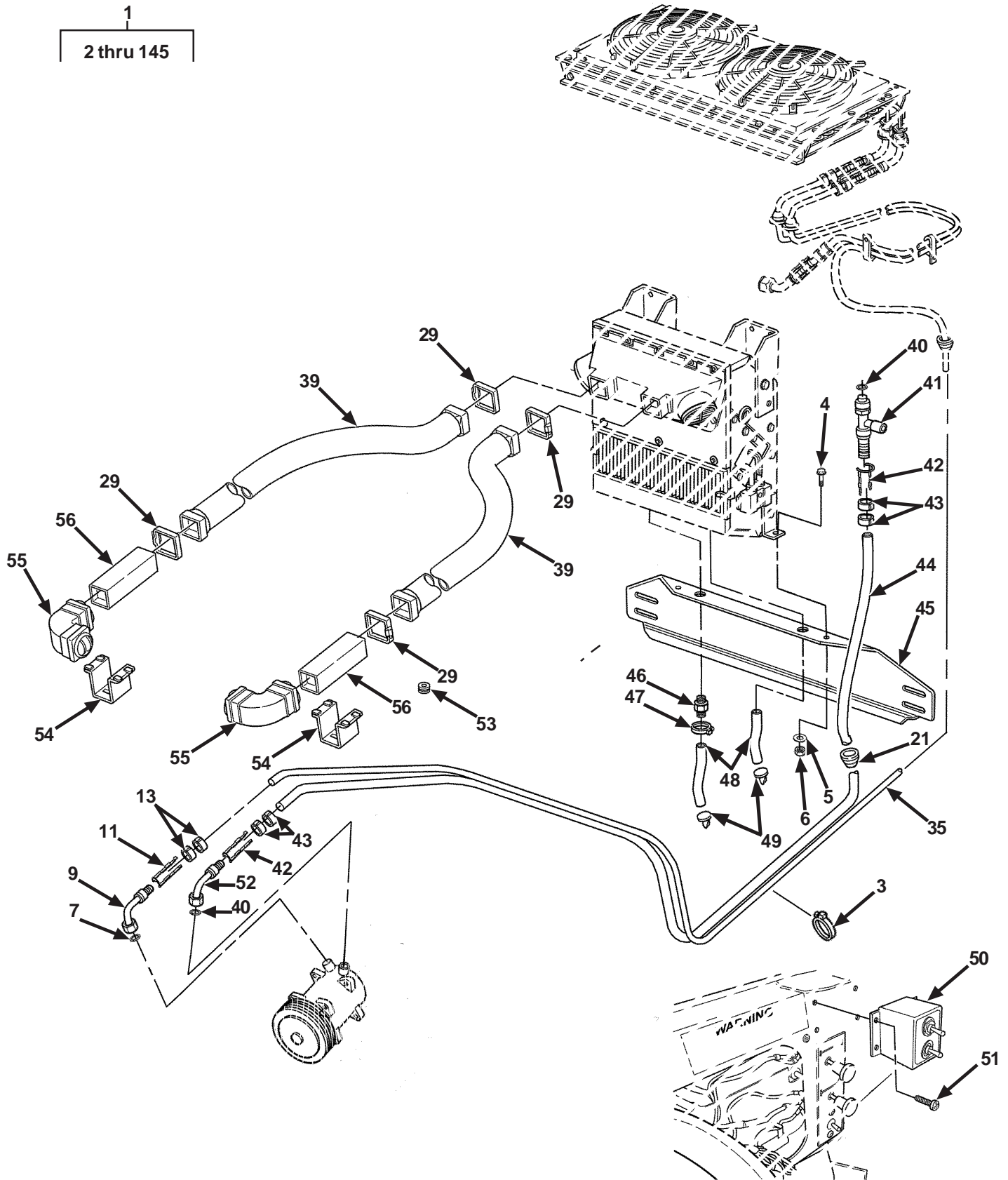


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 2 of 8)

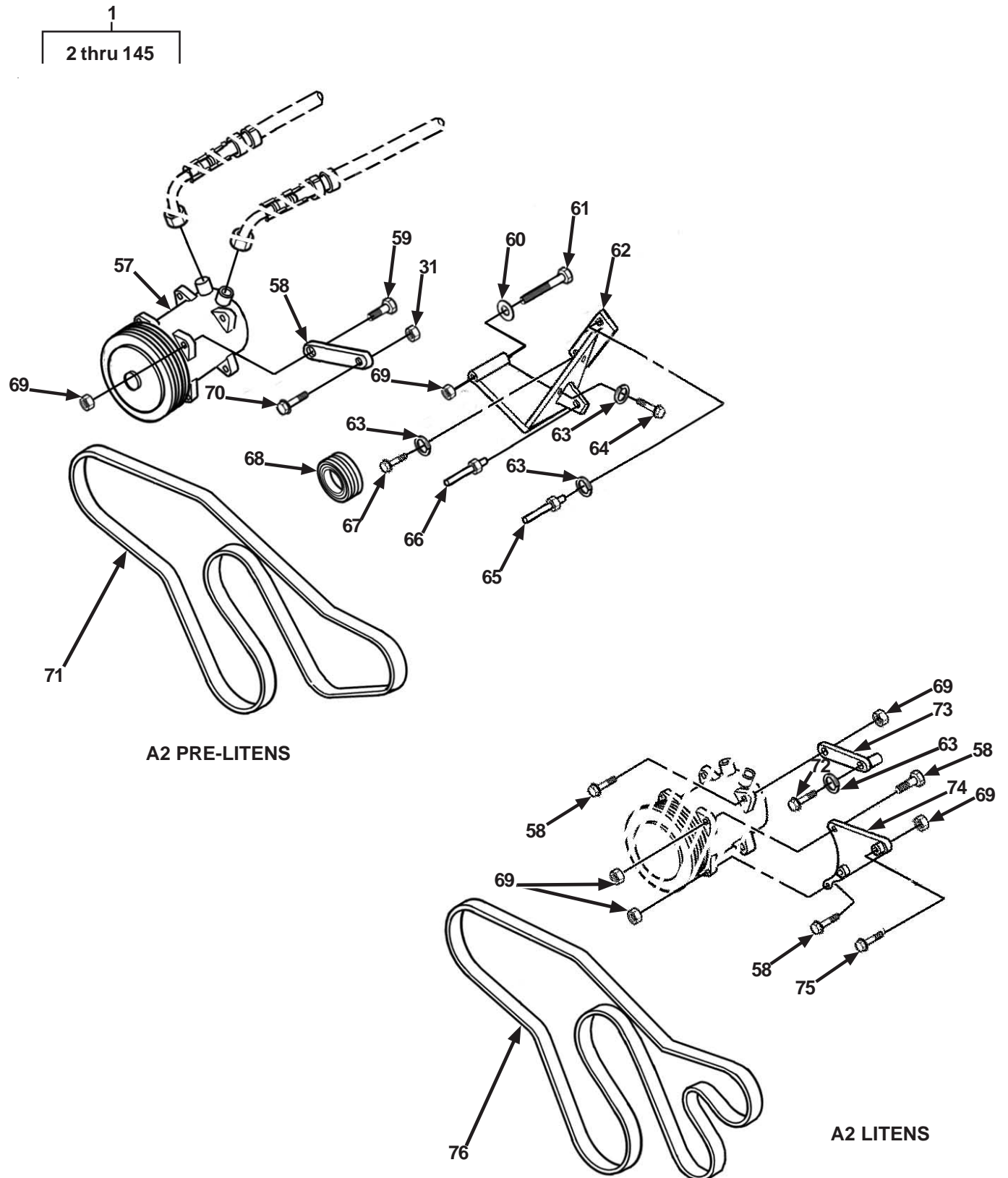


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 3 of 8)

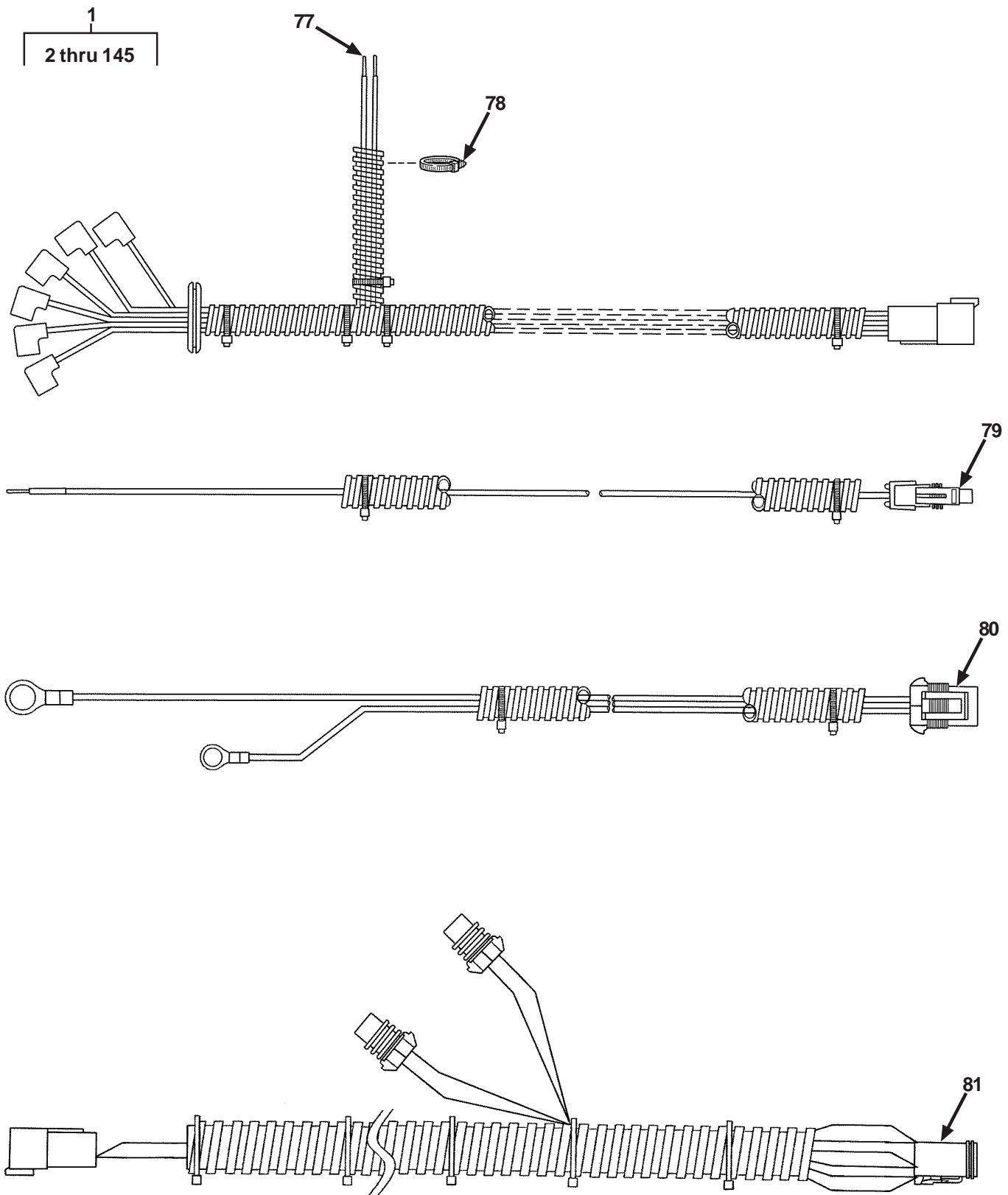


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 4 of 8)

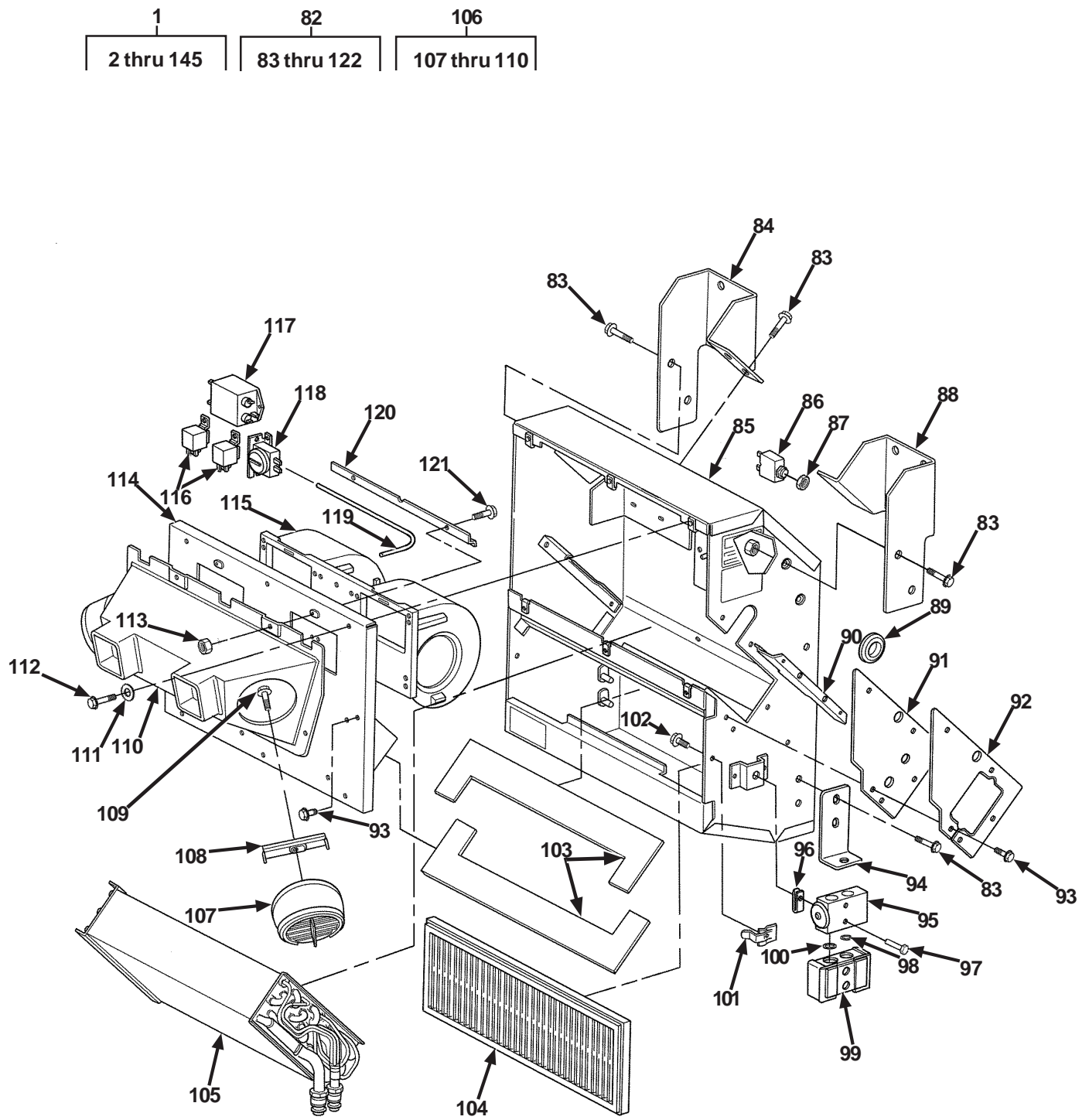


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 5 of 8)

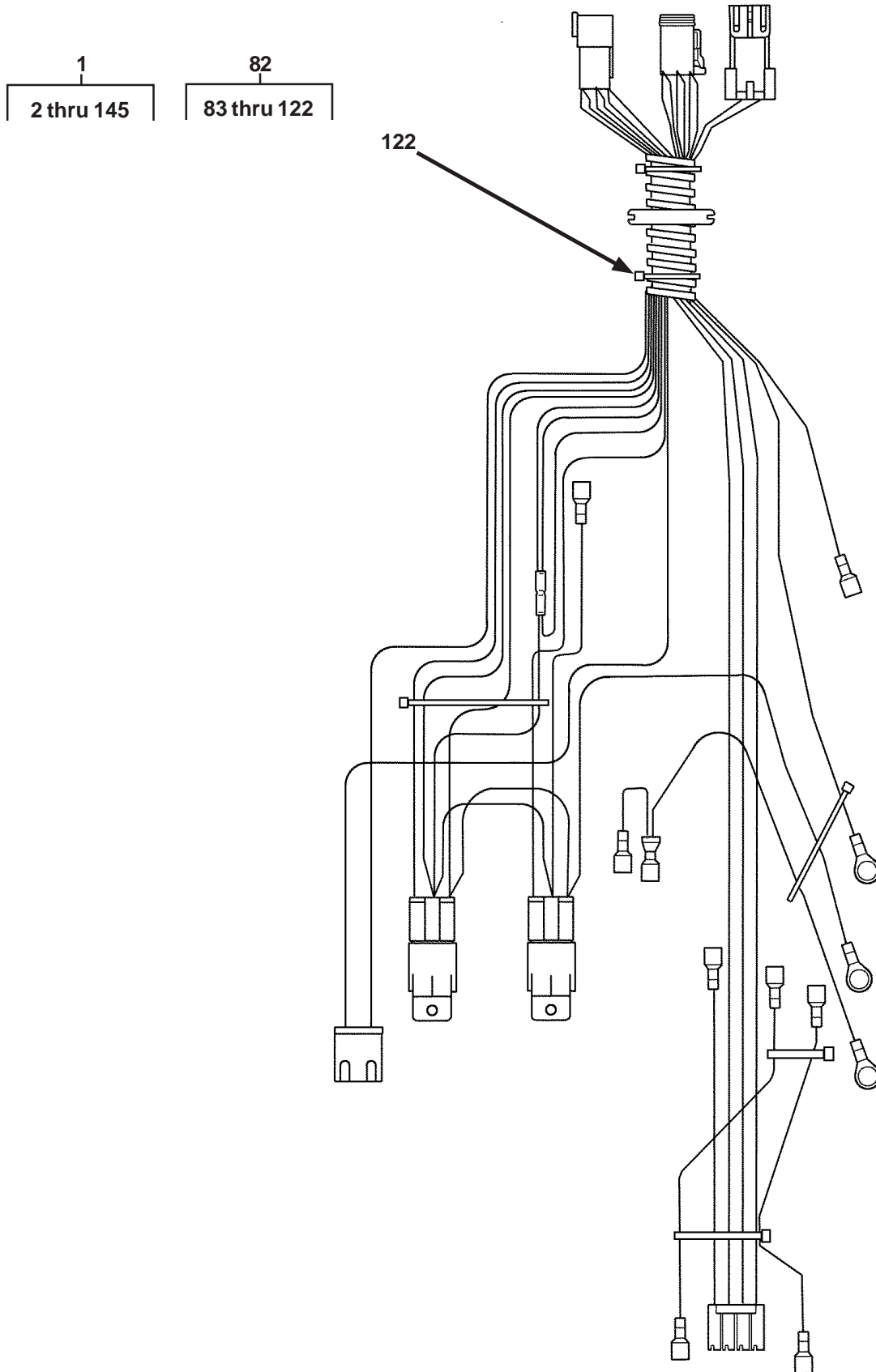


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 6 of 8)

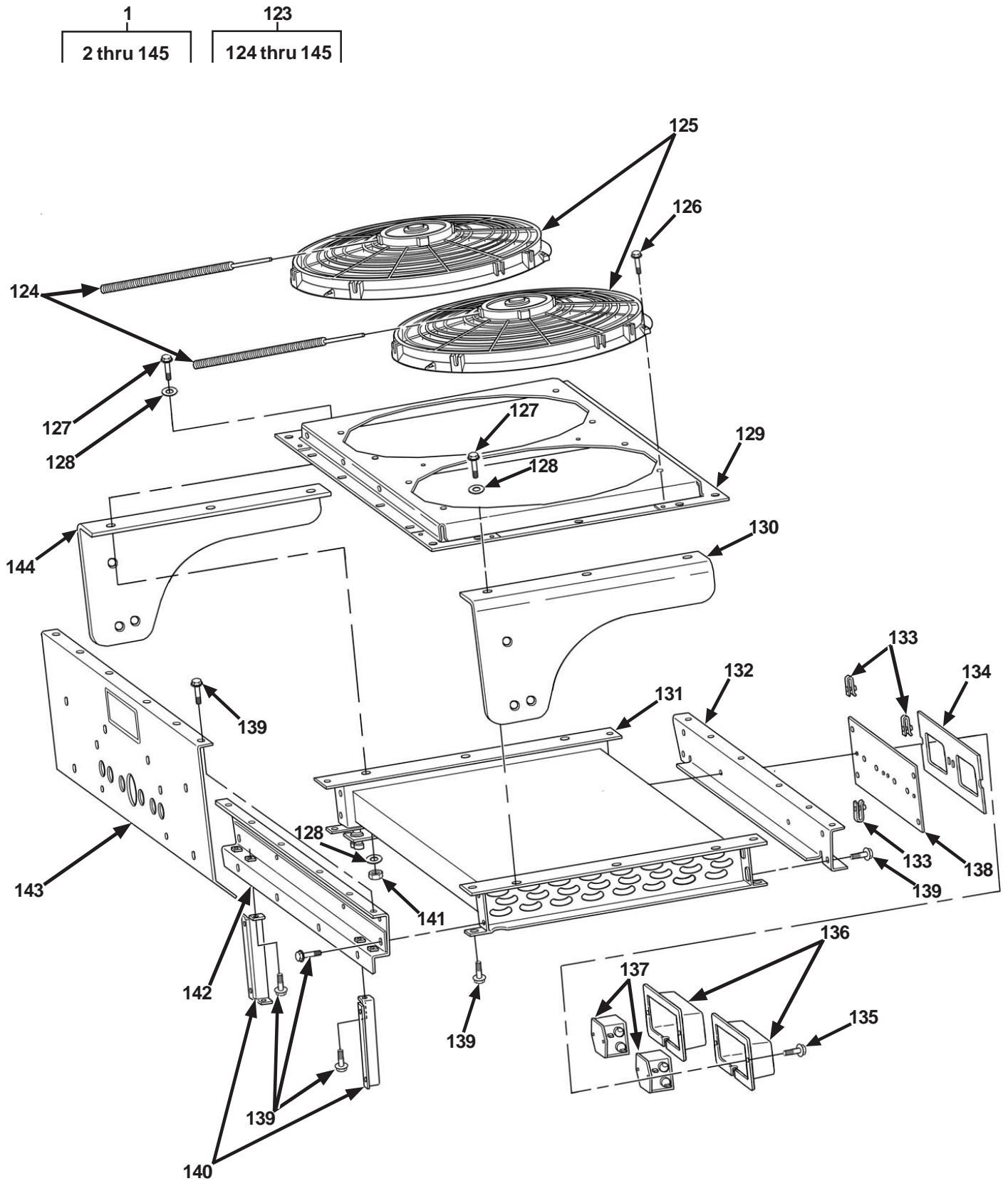


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 7 of 8)

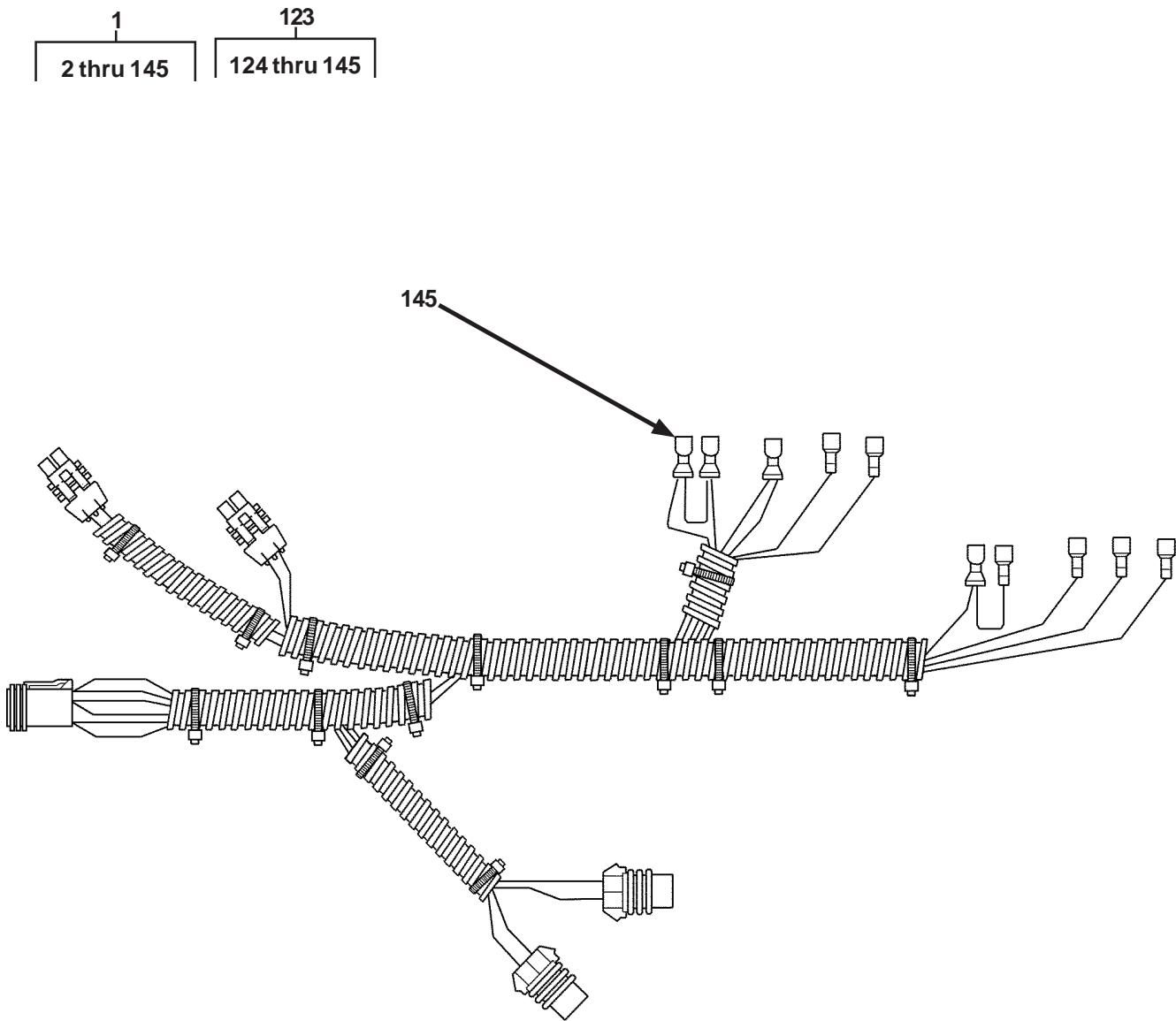


Figure 4. Air Conditioner Kit for M1025A2 Four-Door with GSIE Armor with Pre-Litens/Litens (Sheet 8 of 8)



## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 4 AIR CONDITIONER KIT FOR M1025A2 FOUR-DOOR WITH GSIE ARMOR WITH PRE-LITENS/LITENS	
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:C17	
2	PAOZZ	5340015233687	62534	RD-4-5969-0	.BRACKET,MOUNTING,CONDENSER . . . . .	2
					UOC:C17	
3	PAOZZ	3990015234851	62534	RD-5-6326-0P	.TIE DOWN,CARGO,VEHICLE . . . . .	2
					UOC:C17	
4	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW,CAP,HEXAGON HEAD . . . . .	14
					UOC:C17	
5	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER,FLAT . . . . .	14
					UOC:C17	
6	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT,SELF-LOCKING,HEXAGON . . . . .	14
					UOC:C17	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:C17	
8	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	1
					UOC:C17	
9	PAOZZ	4730015254521	62534	RD-5-10522-0P	.ELBOW,TUBE #8 90° FEMALE . . . . .	2
					UOC:C17	
10	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:C17	
11	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:C17	
12	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	4
					UOC:C17	
13	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:C17	
14	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP . . . . .	8
					UOC:C17	
15	PAOZZ	5340015233961	62534	RD-2-4221-0P	.BRACKET,MOUNTING EVAPORATOR . . . . .	1
					UOC:C17	
16	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER,FLAT . . . . .	4
					UOC:C17	
17	PAOZZ	5310015233710	62534	RD-5-11388-0	.WASHER,FLAT . . . . .	16
					UOC:C17	
18	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	.BOLT,MACHINE . . . . .	4
					UOC:C17	
19	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG . . . . .	1
					UOC:C17	
20	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE,METALLIC . . . . .	2
					UOC:C17	
21	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC . . . . .	5
					UOC:C17	
22	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD . . . . .	9
					UOC:C17	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW,ASSEMBLED WASHER . . . . . UOC:C17	15
24	PAOZZ	4730015299380	62534	RD-5-4400-0	.CLAMP,HOSE . . . . . UOC:C17	2
25	PAOZZ	5305015257700	62534	RD-5-5743-0- 30	.SCREW,CAP,HEXAGON HEAD . . . . . UOC:C17	2
26	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH,PRESSURE . . . . . UOC:C17	1
27	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . . UOC:C17	1
28	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER,LIQUID REFRIGERANT . . . . . UOC:C17	1
29	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP,HOSE . . . . . UOC:C17	2
30	PAOZZ	5340015248775	62534	RD-4-5949-0P	.BRACKET,MOUNTING . . . . . UOC:C17	1
31	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT,SELF-LOCKING,HEXAGON . . . . . UOC:C17	9
32	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW,AIR CONDITIONING-HEATING . . . . . UOC:C17	1
33	PAOZZ	5310015258498	62534	RD-5-4215-0	.WASHER,FLAT . . . . . UOC:C17	1
34	PAOZZ	5305015258598	62534	RD-5-11433-1- 20	.SCREW,CAP,HEXAGON HEAD . . . . . UOC:C17	8
35	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE,NONMETALLIC #8 REFRIG . . . . . UOC:C17	1
36	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE,METALLIC . . . . . UOC:C17	1
37	PAOZZ	5340015233707	62534	RD-2-4220-0P	.BRACKET,MOUNTING EVAPORATOR . . . . . UOC:C17	1
38	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET,MOUNTING EVAPORATOR,REAR . . . . . UOC:C17	2
39	PAOZZ	4720015230403	62534	RD-5-3930-60P	.HOSE,NONMETALLIC 3" ID . . . . . UOC:C17	1
40	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 . . . . . UOC:C17	2
41	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER,PIPE #10/#12 90° MALE . . . . . UOC:C17	1
42	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE,NONMETALLIC #12 CAGE . . . . . UOC:C17	2
43	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP,HOSE #12 CLIP . . . . . UOC:C17	4
44	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE,NONMETALLIC #12 REFRIG . . . . . UOC:C17	1
45	PAOZZ	5340015231682	62534	RD-2-4219-0P	.BRACKET,MOUNTING EVAPORATOR . . . . . UOC:C17	1
46	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION,PIPE TO HOSE . . . . . UOC:C17	2
47	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP,LOOP . . . . .	2

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
48	PAOZZ	4720015329536	62534	RD-5-6532-24P	UOC:C17 .HOSE, NONMETALLIC .....	2
49	PAOZZ	4730015234097	62534	RD-5-5901-0P	UOC:C17 .PLUG, TUBE FITTING, THREADED .....	2
50	PAOZZ	2540015217737	62534	RD-2-4158-0P	UOC:C17 .CONTROL BOX, ELECTRICAL .....	1
51	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	UOC:C17 .SCREW, MACHINE .....	4
52	PAOZZ	4730015236296	62534	RD-5-10525-0P	UOC:C17 .ELBOW, TUBE TO HOSE #10 TO #12 90° FEMALE .....	1
53	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC:C17 .GROMMET, NONMETALLIC .....	1
54	PAOZZ	5340015258661	62534	RD-2-4167-1	UOC:C17 .BRACKET, MOUNTING B PILLAR TOP .....	2
55	PAOZZ	2540015268372	62534	RD-2-4162-0	UOC:C17 .VENTILATOR, AIR CIRCULATING .....	2
56	PAOZZ	TBD	62534	RD-5-6676-8	UOC:C17 .DUCT .....	4
57	PAOZZ	4130015217816	62534	RD-5-11393-0P	UOC:C17 .COMPRESSOR, REFRIGERATION 24V 2A JD .....	1
58	PAOZZ	5340015297711	62534	RD-9-10008-0	UOC:C17 .BRACKET, MOUNTING .....	1
59	PAOZZ	5305015297949	62534	RD-5-6250-0-40	UOC:C17 .SCREW, CAP, HEXAGON HEAD .....	4
60	PAOZZ	5310015259051	62534	RD-5-6260-0	UOC:C17 .WASHER, FLAT 1/4 .....	2
61	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	UOC:C17 .SCREW, MACHINE .....	1
62	PAOZZ	5340015295527	62534	RD-9-10006-0	UOC:C17 .BRACKET, MOUNTING .....	1
63	PAOZZ	5310015264993	62534	RD-5-6139-0	UOC:C17 .WASHER, LOCK .....	4
64	PAOZZ	5305015298457	62534	RD-5-6141-0-25	UOC:C17 .SCREW, MACHINE .....	1
65	PAOZZ	5307015295644	62534	RD-5-11397-0- 35-30	UOC:C17 .STUD, PLAIN M10X1.50 HEX .....	1
66	PAOZZ	5307015297212	62534	RD-5-11397-0- 30-20	UOC:C17 .STUD, PLAIN M10X1.50 HEX .....	1
67	PAOZZ	5305015297316	62534	RD-5-6250-0-35	UOC:C17 .SCREW, CAP, HEXAGON HEAD .....	1
68	PAOZZ	3020015298066	62534	RD-9-10054-0	UOC:C17 .PULLEY, GROOVE 8 .....	1
69	PAOZZ	5310015258620	62534	RD-5-9377-0	UOC:C17 .NUT, SELF-LOCKING, HEXAGON .....	7
70	PAOZZ	5306015297375	62534	RD-5-11390-0- 2.250	UOC:C17 .BOLT, MACHINE .....	1

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TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
71	PAOZZ	3030015242451	62534	RD-5-11396-0P	.BELT,V A2 PRE-LITENS ..... UOC:C17	1
72	PAOZZ	5305015295657	62534	RD-5-6250-0-60	.SCREW,CAP,HEXAGON HEAD ..... UOC:C17	1
73	PAOZZ	TBD	62534	RD-9-10034-0	.ARM,ADJUSTING COMPRESSOR ASSY ..... UOC:C17	1
74	PAOZZ	5340015297655	62534	RD-9-10036-0	.BRACKET,MOUNTING ..... UOC:C17	1
75	PAOZZ	5305015298139	62534	RD-5-6250-0-50	.SCREW,CAP,HEXAGON HEAD ..... UOC:C17	2
76	PAOZZ	3030015242460	62534	RD-5-11792-0P	.BELT,V A2 LITENS ..... UOC:C17	1
77	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS,BRANCHED CONTROL PANEL ..... UOC:C17	1
78	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP,TIEDOWN,ELECTRICAL COMPONENTS ..... UOC:C17	10
79	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH ..... UOC:C17	1
80	PAOZZ	6150015253955	62534	RD-2-4163-0P	.WIRING HARNESS BATTERY ..... UOC:C17	1
81	PAOZZ	6150015330936	62534	RD-4-5958-0P	.WIRING HARNESS,BRANCHED ..... UOC:C17	1
82	PAOOO	TBD	62534	RD-2-4115	.AIR CONDITIONER (SERVICE PARTS R-2400) ..... UOC:C17	1
83	PAOZZ	5305015232459	62534	RD-5-5351-1-25	.SCREW,CAP,HEXAGON HEAD ..... UOC:C17	12
84	PAOZZ	5340015236753	62534	RD-2-4222-0P	.BRACKET,MOUNTING ..... UOC:C17	1
85	PAOZZ	5340015238425	62534	RD-2-4116-0	.COVER,ACCESS ..... UOC:C17	1
86	PAOZZ	5925015217620	62534	RD-5-11437-0P	.CIRCUIT BREAKER 30 AMP ..... UOC:C17	1
87	PAOZZ	5310015252737	62534	RD-5-4133-0M	.NUT,PLAIN,HEXAGON 7/16-28 ..... UOC:C17	1
88	PAOZZ	5340015231015	62534	RD-2-4222-1	.BRACKET,MOUNTING ..... UOC:C17	1
89	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET,NONMETALLIC ..... UOC:C17	1
90	PAOZZ	5340015232793	62534	RD-2-4122-0P	.STRAP,RETAINING ..... UOC:C17	1
91	PAOZZ	5330015233722	62534	RD-2-4136-0P	.GASKET ..... UOC:C17	1
92	PAOZZ	5340015233992	62534	RD-2-4128-0P	.PLATE,RETAINING,SEAL ..... UOC:C17	1
93	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	.SCREW,CAP,HEXAGON HEAD ..... UOC:C17	14

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5340015241893	62534	RD-2-4142-0	..BRACKET,ANGLE UOC:C17	2
95	PAOZZ	4820015177304	62534	RD-5-11438-0P	..VALVE,EXPANSION R134a 2 TON UOC:C17	1
96	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 UOC:C17	1
97	PAOZZ	5305015179757	62534	RD-5-5743-0-40	..SCREW,ASSEMBLED WASHER UOC:C17	2
98	PAOZZ	5331015249812	62534	RD-5-11016-0P	..O-RING #8 UOC:C17	1
99	PAOZZ	5340015242263	62534	RD-5-8410-0	..COVER,ACCESS UOC:C17	1
100	PAOZZ	5331015247872	62534	RD-5-11017-0P	..O-RING #10 UOC:C17	1
101	PAOZZ	5340015178600	62534	RD-5-6239-0	..CLIP,SPRING,TENSION UOC:C17	2
102	PAOZZ	5320015205086	62534	RD-5-5345-0	..RIVET,BLIND UOC:C17	2
103	PAOZZ	5330015233964	62534	RD-2-4149-0P	..GASKET UOC:C17	2
104	PAOZZ	4130015217486	62534	RD-2-4132-0P	..FILTER ELEMENT,AIR CONDITIONING UOC:C17	1
105	PAOZZ	4130015216442	62534	RD-2-4129-0P	..EVAPORATOR COIL,REFRIGERATION UOC:C17	1
106	PAOOO	2540015217709	62534	RD-2-4169-0P	..DUCT ASSEMBLY,AIR CONDITIONING UOC:C17	1
107	PAOZZ	2540015360012	62534	RD-5-5223-2	..DIFFUSER,AIR,HEATING AND VENTILATING UOC:C17	2
108	PAOZZ	4520015324463	62534	RD-2-4131-0P	..RETAINER-DIFFUSER UOC:C17	2
109	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	..SCREW,ASSEMBLED WASHER UOC:C17	1
110	PAOZZ	2540015360113	62534	RD-2-4152-0P	..DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR UOC:C17	1
111	PAOZZ	5310015179281	62534	RD-5-4556-1	..SCREW,ASSEMBLED WASHER UOC:C17	6
112	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	..SCREW,CAP,HEXAGON HEAD UOC:C17	6
113	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT,SELF-LOCKING,HEXAGON UOC:C17	2
114	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER,ACCESS UOC:C17	1
115	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN,CENTRIFUGAL 24V UOC:C17	1
116	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY,ELECTROMAGNETIC UOC:C17	2
117	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
118	PAOZZ	6685015174892	62534	RD-5-11440-0P	UOC:C17 ..THERMOSTAT, FLOW CONTROL .....	1
119	PAOZZ	4710015230548	62534	RD-5-3816-16P	UOC:C17 ..TUBE, BENT, METALLIC 1/8 I.D. ....	1
120	PAOZZ	5340015233993	62534	RD-2-4150-0P	UOC:C17 ..BRACKET, MOUNTING .....	1
121	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	UOC:C17 ..SCREW, CAP, HEXAGON HEAD .....	2
122	PAOZZ	6150015214634	62534	RD-2-4153-0P	UOC:C17 ..WIRING HARNESS AIR CONDITIONER ....	1
123	PAOOO	4140015215780	62534	RD-4-5877-0P	UOC:C17 ..FAN, CIRCULATING .....	1
124	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC:C17 ..INSULATION SLEEVING, ELECTRICAL ....	2
125	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC:C17 ..FAN, CIRCULATING 24V .....	2
126	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	UOC:C17 ..SCREW, MACHINE .....	8
127	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	UOC:C17 ..BOLT, MACHINE .....	6
128	PAOZZ	5310015233710	62534	RD-5-11388-0	UOC:C17 ..WASHER, FLAT .....	12
129	PAOZZ	5340015244491	62534	RD-4-59140P	UOC:C17 ..COVER, ACCESS .....	1
130	PAOZZ	5340015236759	62534	RD-4-5899-1P	UOC:C17 ..PLATE, MOUNTING .....	1
131	PAOZZ	4130015215757	62534	RD-4-5857-0P	UOC:C17 ..CONDENSER COIL, REFRIGATION .....	1
132	PAOZZ	2510015233685	62534	RD-4-5921-0P	UOC:C17 ..FRAME, STRUCTURAL, VEHICULAR .....	1
133	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:C17 ..NUT, CLIP M6 .....	4
134	PAOZZ	5330015233709	62534	RD-4-5947-0P	UOC:C17 ..GASKET .....	1
135	PAOZZ	TBD	62534	RD-5-7212-1- .375	UOC:C17 ..SCREW .....	8
136	PAOZZ	5340015232408	62534	RD-4-5886-0P	UOC:C17 ..COVER, ACCESS .....	2
137	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:C17 ..FILTER ASSEMBLY, ELECTRICAL .....	2
138	PAOZZ	5340015251931	62534	RD-4-5968-0P	UOC:C17 ..PLATE, MOUNTING .....	1
139	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	UOC:C17 ..SCREW, ASSEMBLED WASHER .....	30
140	PAOZZ	5340015232444	62534	RD-4-5875-0P	UOC:C17 ..BRACKET, MOUNTING .....	2
141	PAOZZ	5310015232651	62534	RD-5-11392-0	UOC:C17 ..NUT, SELF-LOCKING, HEXAGON .....	9

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
142	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:C17	1
143	PAOZZ	5340015251963	62534	RD-4-5951-0P	..DEFLECTOR,DIRT AND LIQUID ..... UOC:C17	1
144	PAOZZ	5340015241884	62534	RD-4-5893-1P	..PLATE,MOUNTING ..... UOC:C17	1
145	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS,BRANCHED CONDENSER ..... UOC:C17	1
END OF FIGURE						

1  
2 thru 136

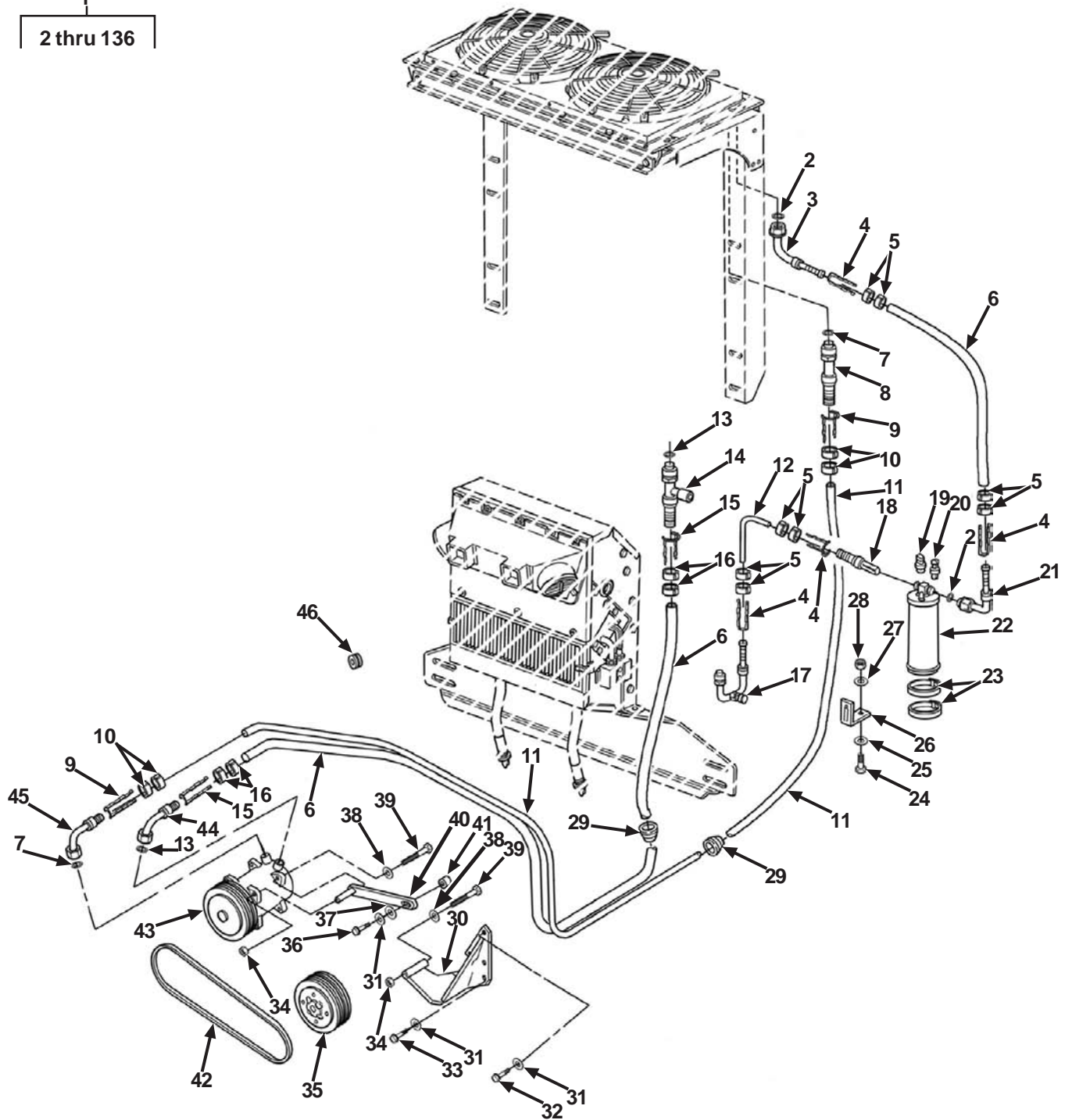


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 1 of 7)



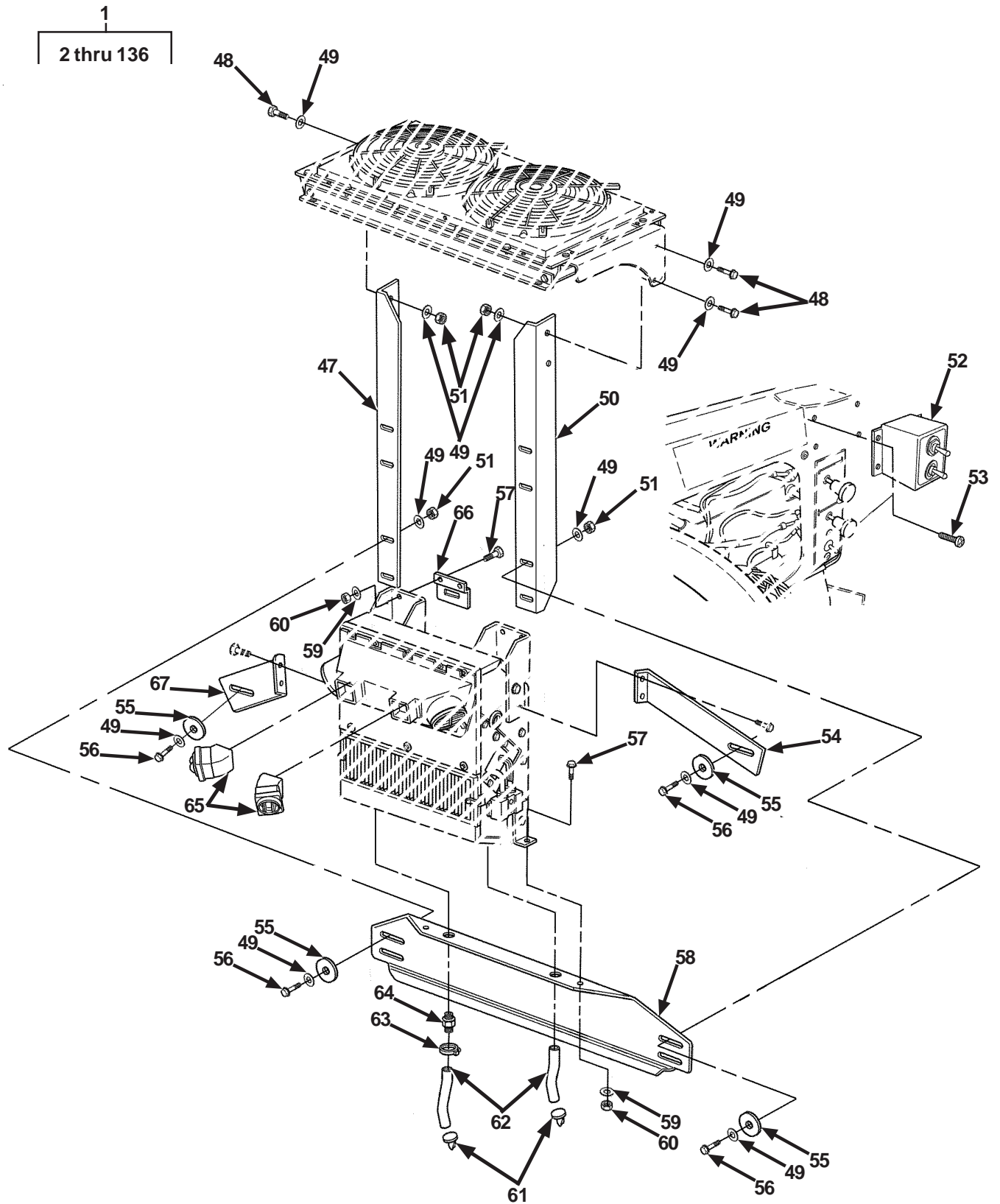


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 2 of 7)

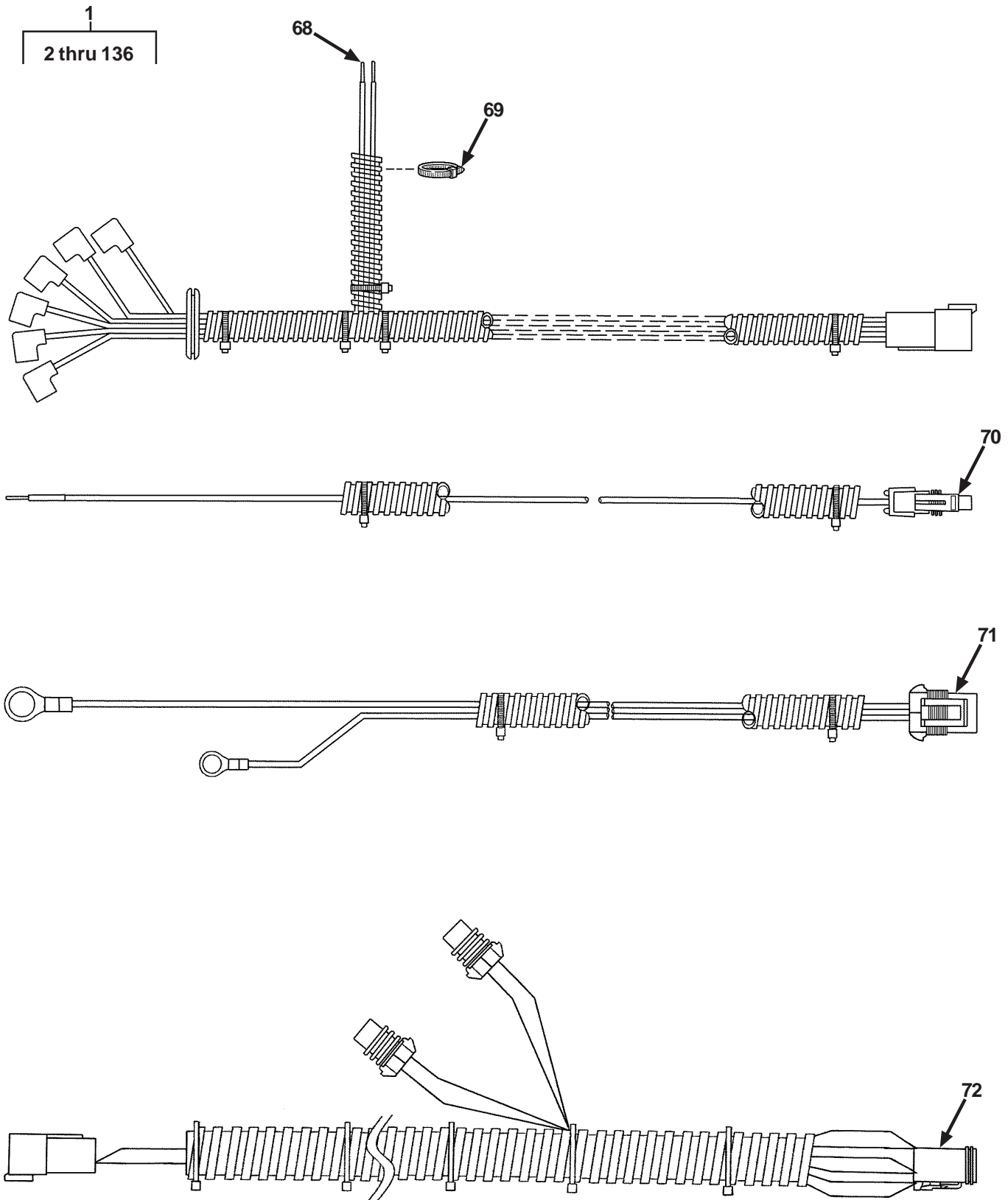


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 3 of 7)

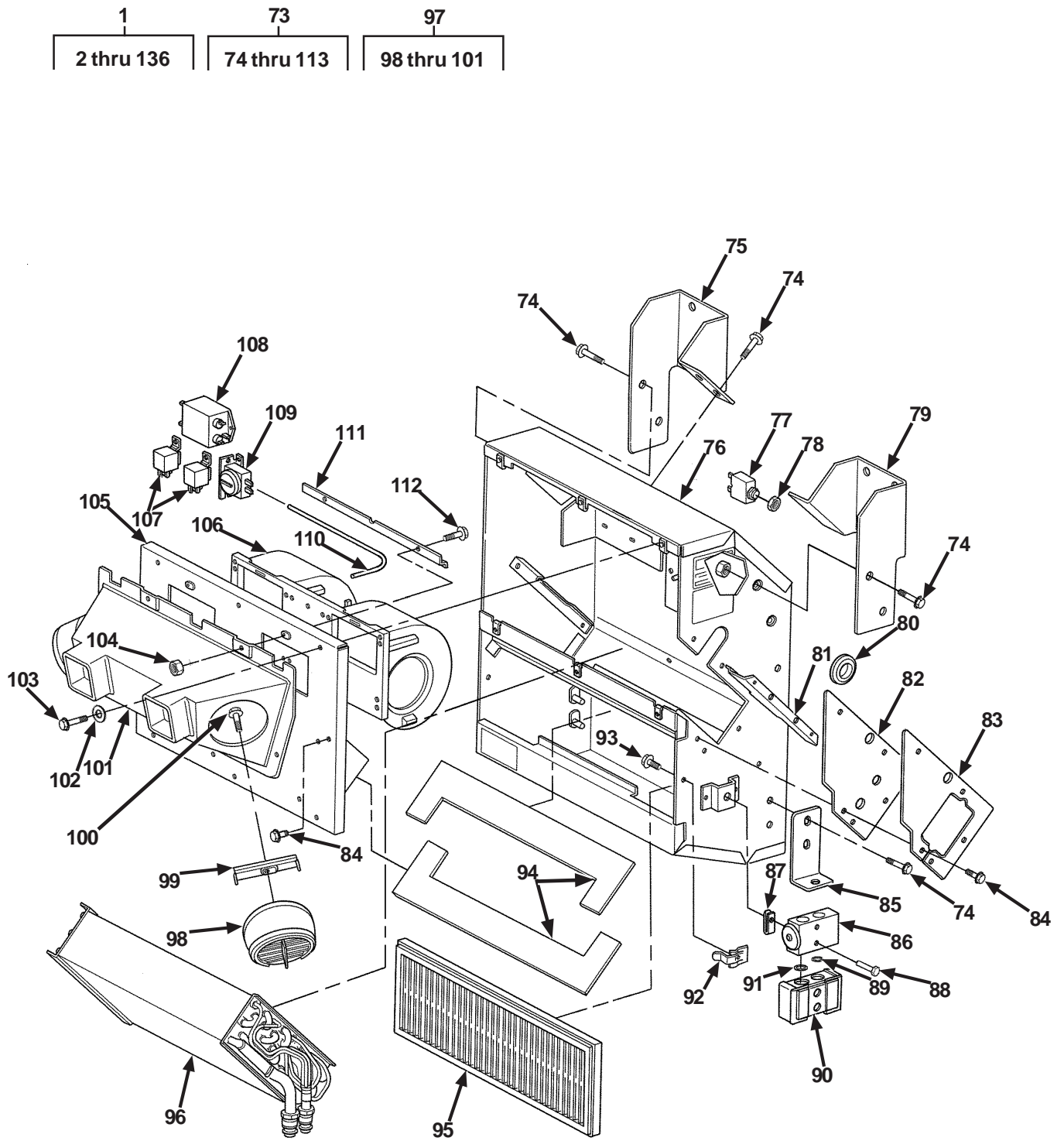


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 4 of 7)

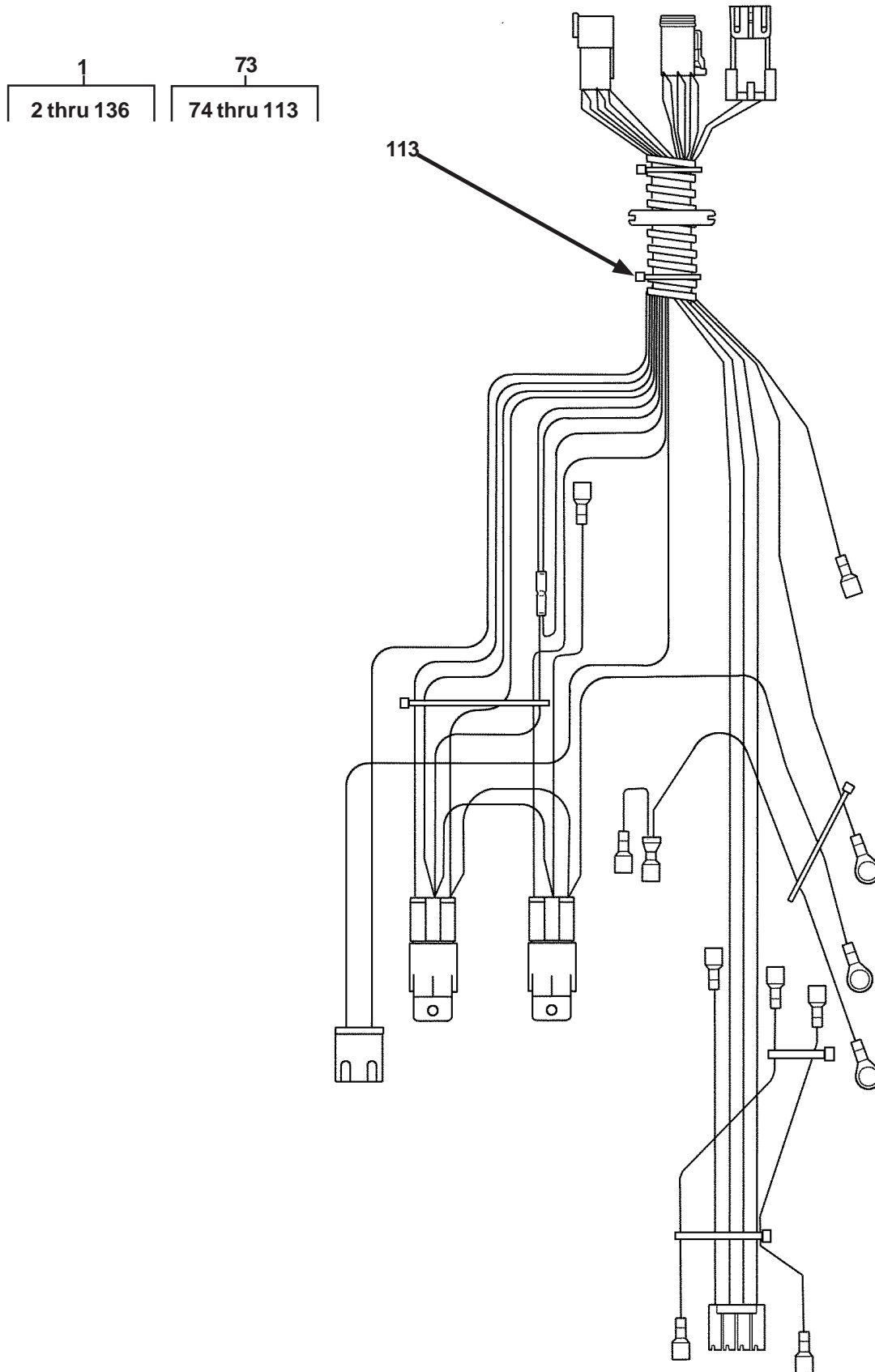


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 5 of 7)

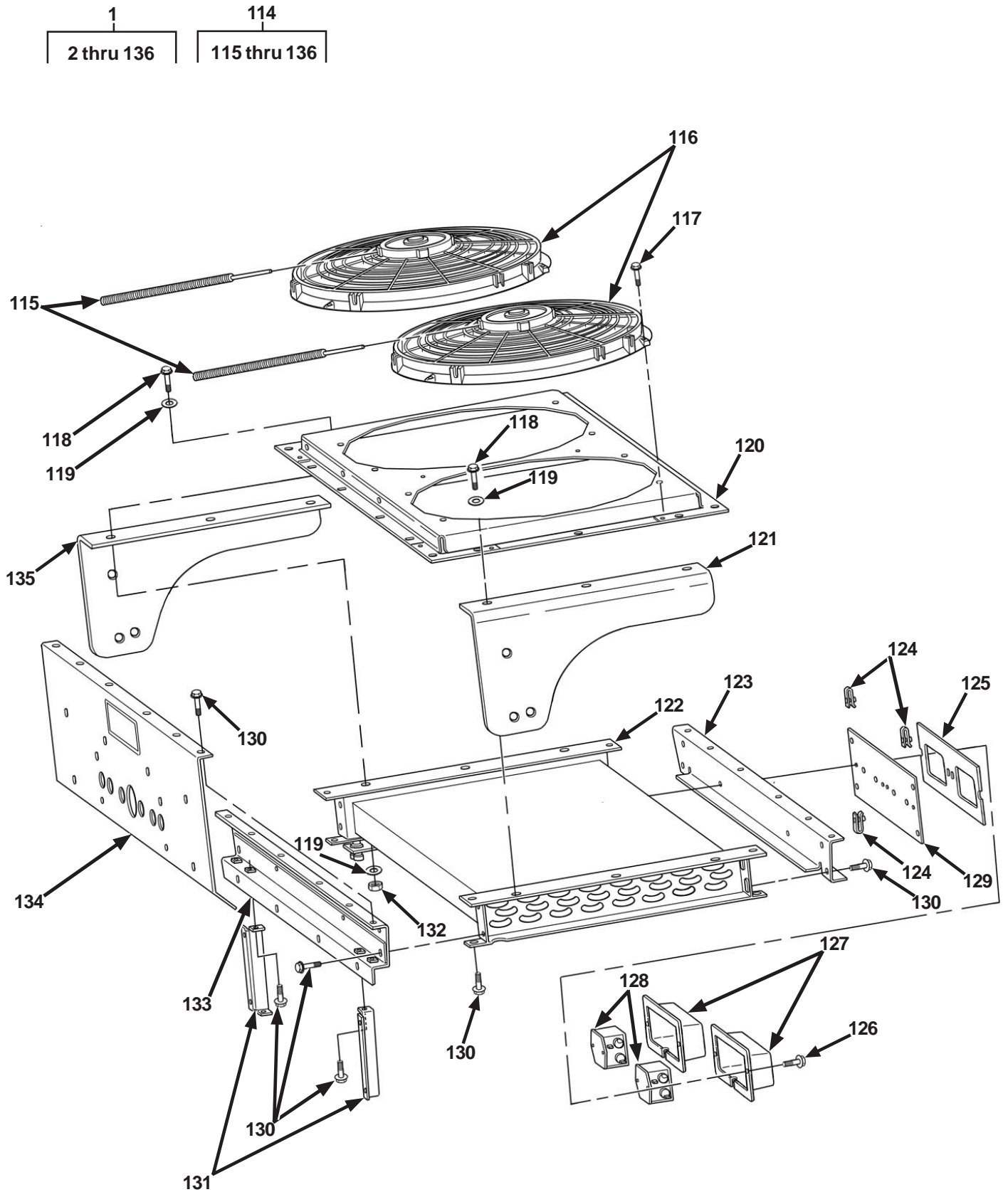


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 6 of 7)

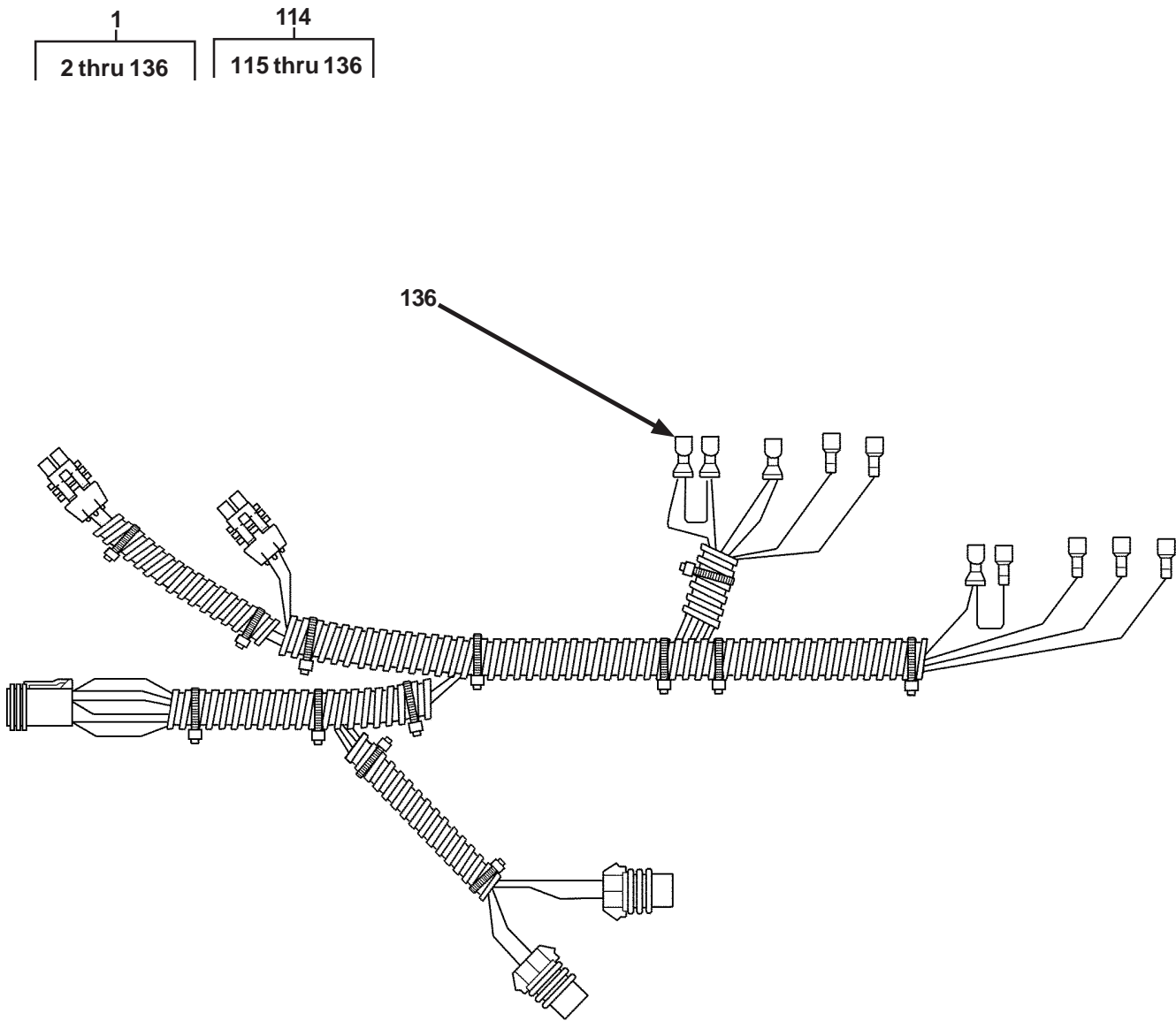


Figure 5. Air Conditioner Kit for M1037 Two-Door with GSIE Armor (Sheet 7 of 7)

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 3307 SPECIAL PURPOSE KITS						
FIG. 5 AIR CONDITIONER KIT FOR M1037						
TWO-DOOR WITH GSIE ARMOR						
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:H21	
2	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:H21	
3	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:H21	
4	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	4
					UOC:H21	
5	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP . . . . .	8
					UOC:H21	
6	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE,NONMETALLIC #12 REFRIG . . . . .	1
					UOC:H21	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:H21	
8	PAOZZ	4730015237227	62534	RD-5-10510-0P	.ADAPTER,STRAIGHT . . . . .	1
					UOC:H21	
9	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:H21	
10	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:H21	
11	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE,NONMETALLIC #8 REFRIG . . . . .	1
					UOC:H21	
12	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG . . . . .	1
					UOC:H21	
13	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 . . . . .	2
					UOC:H21	
14	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER,PIPE #10/#12 90° MALE . . . . .	1
					UOC:H21	
15	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE,NONMETALLIC #12 CAGE . . . . .	2
					UOC:H21	
16	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP,HOSE #12 CLIP . . . . .	4
					UOC:H21	
17	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE,METALLIC . . . . .	1
					UOC:H21	
18	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE,METALLIC . . . . .	1
					UOC:H21	
19	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:H21	
20	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:H21	
21	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:H21	
22	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER,LIQUID REFRIGERANT . . . . .	1
					UOC:H21	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP,HOSE ..... UOC:H21	2
24	PAOZZ	5305015258598	62534	RD-5-11433-1- 20	.SCREW,CAP,HEXAGON HEAD ..... UOC:H21	8
25	PAOZZ	5310015258498	62534	RD-5-4215-0	.WSHER,FLAT ..... UOC:H21	1
26	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW,AIR CONDITIONING-HEATING ..... UOC:H21	1
27	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW,ASSEMBLED WASHER ..... UOC:H21	15
28	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD ..... UOC:H21	9
29	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC ..... UOC:H21	2
30	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET,MOUNTING COMPRESSOR ..... UOC:H21	1
31	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER,LOCK ..... UOC:H21	1
32	PAOZZ	5305015258583	62534	RD-5-6250-0- 55	.SCREW,MACHINE ..... UOC:H21	1
33	PAOZZ	5305015258603	62534	RD-5-6250-0- 30	.SCREW,MACHINE ..... UOC:H21	1
34	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:H21	1
35	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY,GROOVE 5 ..... UOC:H21	1
36	PAOZZ	5305015298139	62534	RD-5-6250-0- 50	.SCREW,CAP,HEXAGON HEAD ..... UOC:H21	1
37	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER,FLAT 1/8 ..... UOC:H21	1
38	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER,FLAT 1/4 ..... UOC:H21	2
39	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	.SCREW,MACHINE ..... UOC:H21	1
40	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM,ADJUSTING,BELT TENSION ..... UOC:H21	1
41	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER,SLEEVE ..... UOC:H21	1
42	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT,V 44-5/8" ..... UOC:H21	1
43	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR,REFRIGERATION 24V 2A JD ..... UOC:H21	1
44	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW,TUBE TO HOSE #10 TO #12 90° FEMALE ..... UOC:H21	1
45	PAOZZ	4730015234950	62534	RD-5-10517-0P	.ELBOW,TUBE #8 45° FEMALE ..... UOC:H21	1



## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
46	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET, NONMETALLIC UOC:H21	1
47	PAOZZ	5340015231579	62534	RD-4-5917-1P	.BRACKET, ANGLE UOC:H21	1
48	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	.BOLT, MACHINE UOC:H21	4
49	PAOZZ	5310015233710	62534	RD-5-11388-0	.WASHER, FLAT UOC:H21	16
50	PAOZZ	5340015237598	62534	RD-4-5916-0	.BRACKET, ANGLE UOC:H21	1
51	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT, SELF-LOCKING, HEXAGON UOC:H21	8
52	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX, ELECTRICAL UOC:H21	1
53	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW, MACHINE UOC:H21	4
54	PAOZZ	5340015233961	62534	RD-2-4221-0P	.BRACKET, MOUNTING EVAPORATOR UOC:H21	1
55	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER, FLAT UOC:H21	4
56	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	.BOLT, MACHINE UOC:H21	4
57	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW, CAP, HEXAGON HEAD UOC:H21	14
58	PAOZZ	5340015231682	62534	RD-2-4219-0P	.BRACKET, MOUNTING EVAPORATOR UOC:H21	1
59	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER, FLAT UOC:H21	14
60	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT, SELF-LOCKING, HEXAGON UOC:H21	14
61	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG, TUBE FITTING, THREADED UOC:H21	2
62	PAOZZ	4720015329536	62534	RD-5-6532-24P	.HOSE, NONMETALLIC UOC:H21	2
63	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP UOC:H21	2
64	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE UOC:H21	2
65	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR, AIR CIRCULATING UOC:H21	2
66	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET, MOUNTING EVAPORATOR, REAR UOC:H21	2
67	PAOZZ	5340015233707	62534	RD-2-4220-0P	.BRACKET, MOUNTING EVAPORATOR UOC:H21	1
68	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS, BRANCHED CONTROL PANEL UOC:H21	1
69	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP, TIEDOWN, ELECTRICAL COMPONENTS	10

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
70	PAOZZ	6150015251625	62534	RD-2-4160-0P	UOC:H21 .WIRING HARNESS CLUTCH .....	1
71	PAOZZ	6150015253955	62534	RD-2-4163-0P	UOC:H21 .WIRING HARNESS BATTERY .....	1
72	PAOZZ	6150015330936	62534	RD-4-5958-0P	UOC:H21 .WIRING HARNESS, BRANCHED .....	1
73	PAOOO	TBD	62534	RD-2-4115	UOC:H21 .AIR CONDITIONER (SERVICE PARTS R-2400) .....	1
74	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:H21 ..SCREW, CAP, HEXAGON HEAD .....	12
75	PAOZZ	5340015236753	62534	RD-2-4222-0P	UOC:H21 ..BRACKET, MOUNTING .....	1
76	PAOZZ	5340015238425	62534	RD-2-4116-0	UOC:H21 ..COVER, ACCESS .....	1
77	PAOZZ	5925015217620	62534	RD-5-11437-0P	UOC:H21 ..CIRCUIT BREAKER 30 AMP .....	1
78	PAOZZ	5310015252737	62534	RD-5-4133-0M	UOC:H21 ..NUT, PLAIN, HEXAGON 7/16-28 .....	1
79	PAOZZ	5340015231015	62534	RD-2-4222-1	UOC:H21 ..BRACKET, MOUNTING .....	1
80	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC:H21 ..GROMMET, NONMETALLIC .....	1
81	PAOZZ	5340015232793	62534	RD-2-4122-0P	UOC:H21 ..STRAP, RETAINING .....	1
82	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:H21 ..GASKET .....	1
83	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:H21 ..PLATE, RETAINING, SEAL .....	1
84	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:H21 ..SCREW, CAP, HEXAGON HEAD .....	14
85	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:H21 ..BRACKET, ANGLE .....	2
86	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:H21 ..VALVE, EXPANSION R134a 2 TON .....	1
87	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:H21 ..NUT, CLIP M6 .....	1
88	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:H21 ..SCREW, ASSEMBLED WASHER .....	2
89	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:H21 ..O-RING #8 .....	1
90	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:H21 ..COVER, ACCESS .....	1
91	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:H21 ..O-RING #10 .....	1
92	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:H21 ..CLIP, SPRING, TENSION .....	2
93	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:H21 ..RIVET, BLIND .....	2

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:H21 ..GASKET .....	2
95	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:H21 ..FILTER ELEMENT,AIR CONDITIONING ....	1
96	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:H21 ..EVAPORATOR COIL,REFRIGERATION .....	1
97	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:H21 ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
98	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:H21 ..DIFFUSER,AIR,HEATING AND VENTILATING .....	2
99	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:H21 ..RETAINER-DIFFUSER .....	2
100	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:H21 ..SCREW,ASSEMBLED WASHER .....	1
101	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:H21 ..DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1
102	PAOZZ	5310015179281	62534	RD-5-4556-1	UOC:H21 ..SCREW,ASSEMBLED WASHER .....	6
103	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	UOC:H21 ..SCREW,CAP,HEXAGON HEAD .....	6
104	PAOZZ	5310015231558	62534	RD-5-4544-0	UOC:H21 ..NUT,SELF-LOCKING,HEXAGON .....	2
105	PAOZZ	5340015231985	62534	RD-2-4126-0P	UOC:H21 ..COVER,ACCESS .....	1
106	PAOZZ	4140015218532	62534	RD-5-11436-0P	UOC:H21 ..FAN,CENTRIFUGAL 24V .....	1
107	PAOZZ	5945015229738	62534	RD-5-4417-0P	UOC:H21 ..RELAY,ELECTROMAGNETIC .....	2
108	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:H21 ..FILTER ASSEMBLY,ELECTRICAL .....	1
109	PAOZZ	6685015174892	62534	RD-5-11440-0P	UOC:H21 ..THERMOSTAT,FLOW CONTROL .....	1
110	PAOZZ	4710015230548	62534	RD-5-3816-16P	UOC:H21 ..TUBE,BENT,METALLIC 1/8 I.D. ....	1
111	PAOZZ	5340015233993	62534	RD-2-4150-0P	UOC:H21 ..BRACKET,MOUNTING .....	1
112	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	UOC:H21 ..SCREW,CAP,HEXAGON HEAD .....	2
113	PAOZZ	6150015214634	62534	RD-2-4153-0P	UOC:H21 ..WIRING HARNESS AIR CONDITIONER ....	1
114	PAOOO	4140015215780	62534	RD-4-5877-0P	UOC:H21 ..FAN,CIRCULATING .....	1
115	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC:H21 ..INSULATION SLEEVING,ELECTRICAL .....	2
116	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC:H21 ..FAN,CIRCULATING 24V .....	2

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
117	PAOZZ	5305015231683	62534	RD-5-8980-1-20	..SCREW,MACHINE UOC:H21	8
118	PAOZZ	5306015231006	62534	RD-5-11390-0-1.500M	..BOLT,MACHINE UOC:H21	6
119	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT UOC:H21	12
120	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS UOC:H21	1
121	PAOZZ	5340015236759	62534	RD-4-5899-1P	..PLATE,MOUNTING UOC:H21	1
122	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGATION UOC:H21	1
123	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME,STRUCTUAL,VEHICULAR UOC:H21	1
124	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 UOC:H21	4
125	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET UOC:H21	1
126	PAOZZ	TBD	62534	RD-5-7212-1-.375	..SCREW UOC:H21	8
127	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER,ACCESS UOC:H21	2
128	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL UOC:H21	2
129	PAOZZ	5340015251931	62534	RD-4-5968-0P	..PLATE,MOUNTING UOC:H21	1
130	PAOZZ	5305015179283	62534	RD-5-8222-1-16	..SCREW,ASSEMBLED WASHER UOC:H21	30
131	PAOZZ	5340015232444	62534	RD-4-5875-0P	..BRACKET,MOUNTING UOC:H21	2
132	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT,SELF-LOCKING,HEXAGON UOC:H21	9
133	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR UOC:H21	1
134	PAOZZ	5340015251963	62534	RD-4-5951-0P	..DEFLECTOR,DIRT AND LIQUID UOC:H21	1
135	PAOZZ	5340015241884	62534	RD-4-5893-1P	..PLATE,MOUNTING UOC:H21	1
136	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS,BRANCHED CONDENSER UOC:H21	1

END OF FIGURE



1  
2 thru 136

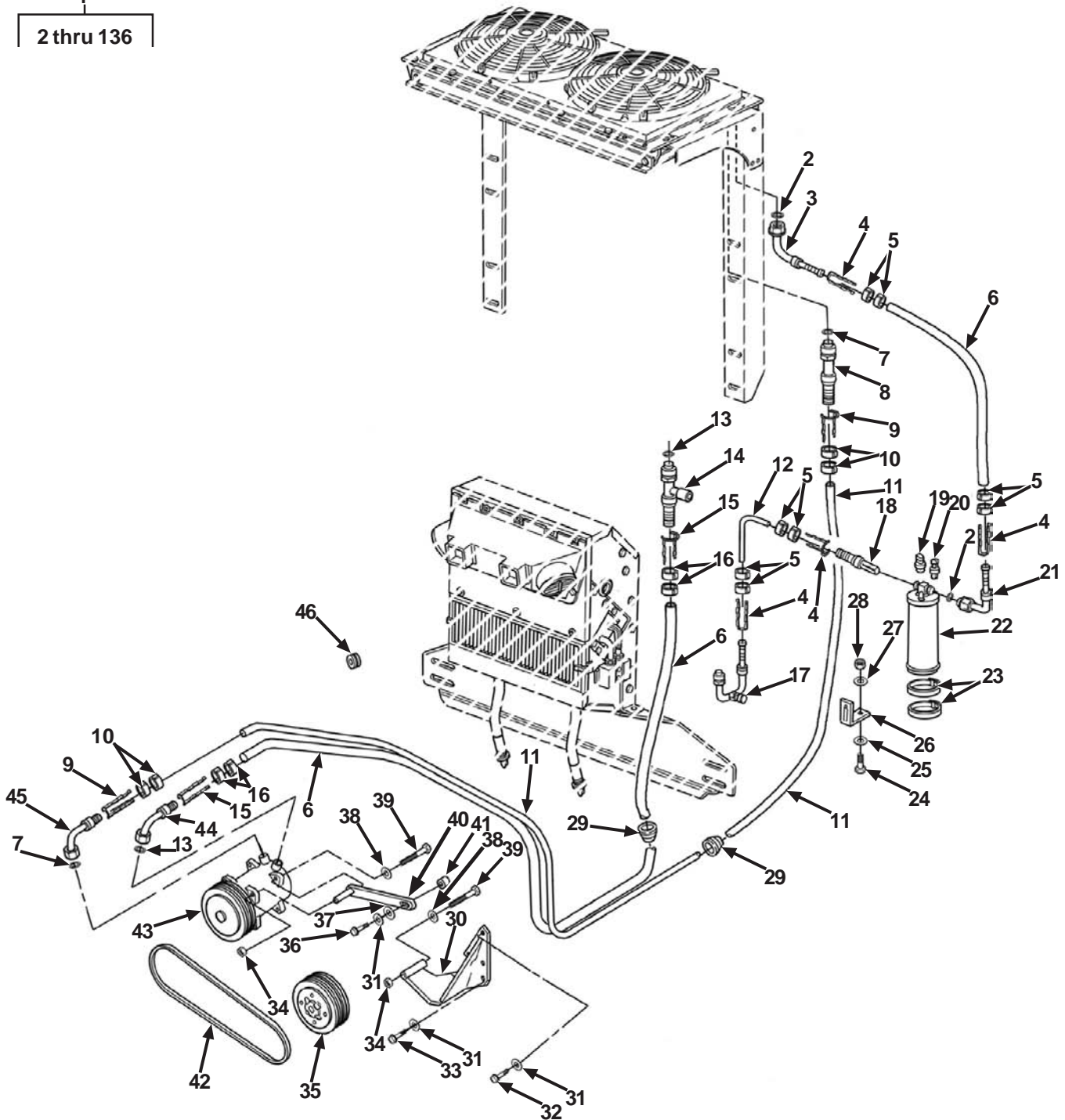


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 1 of 7)

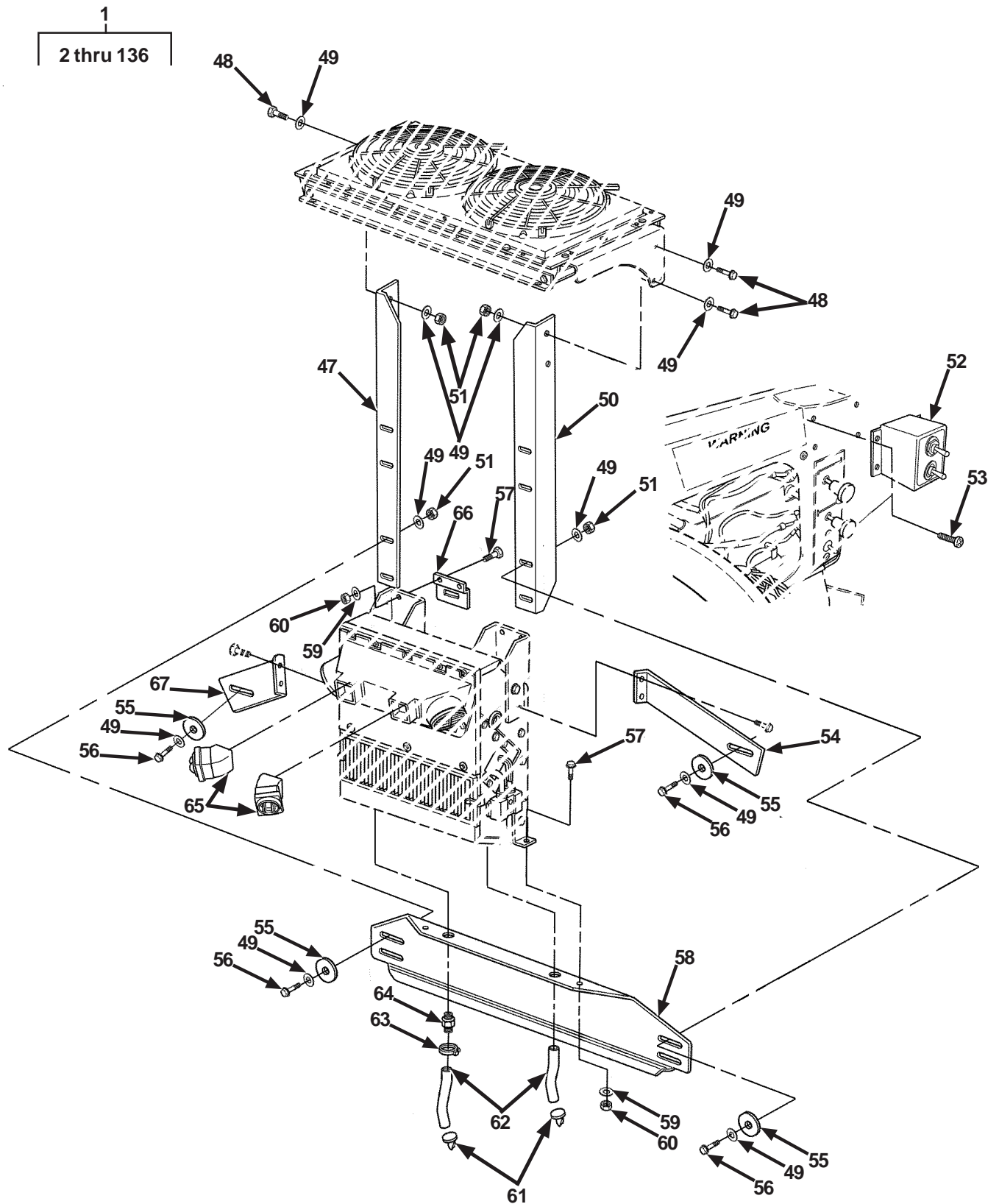


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 2 of 7)

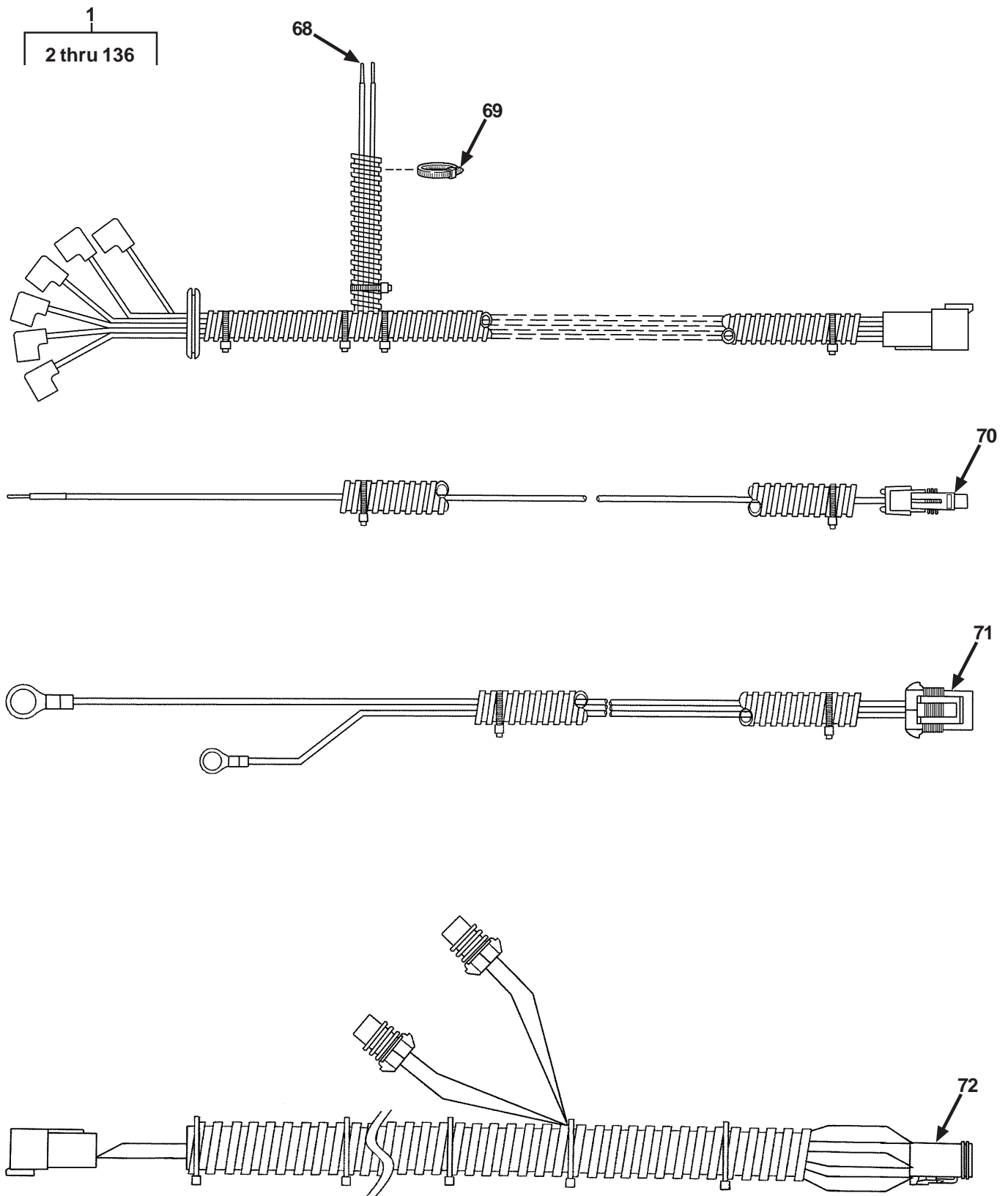


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 3 of 7)



1	73	97
2 thru 136	74 thru 113	98 thru 101

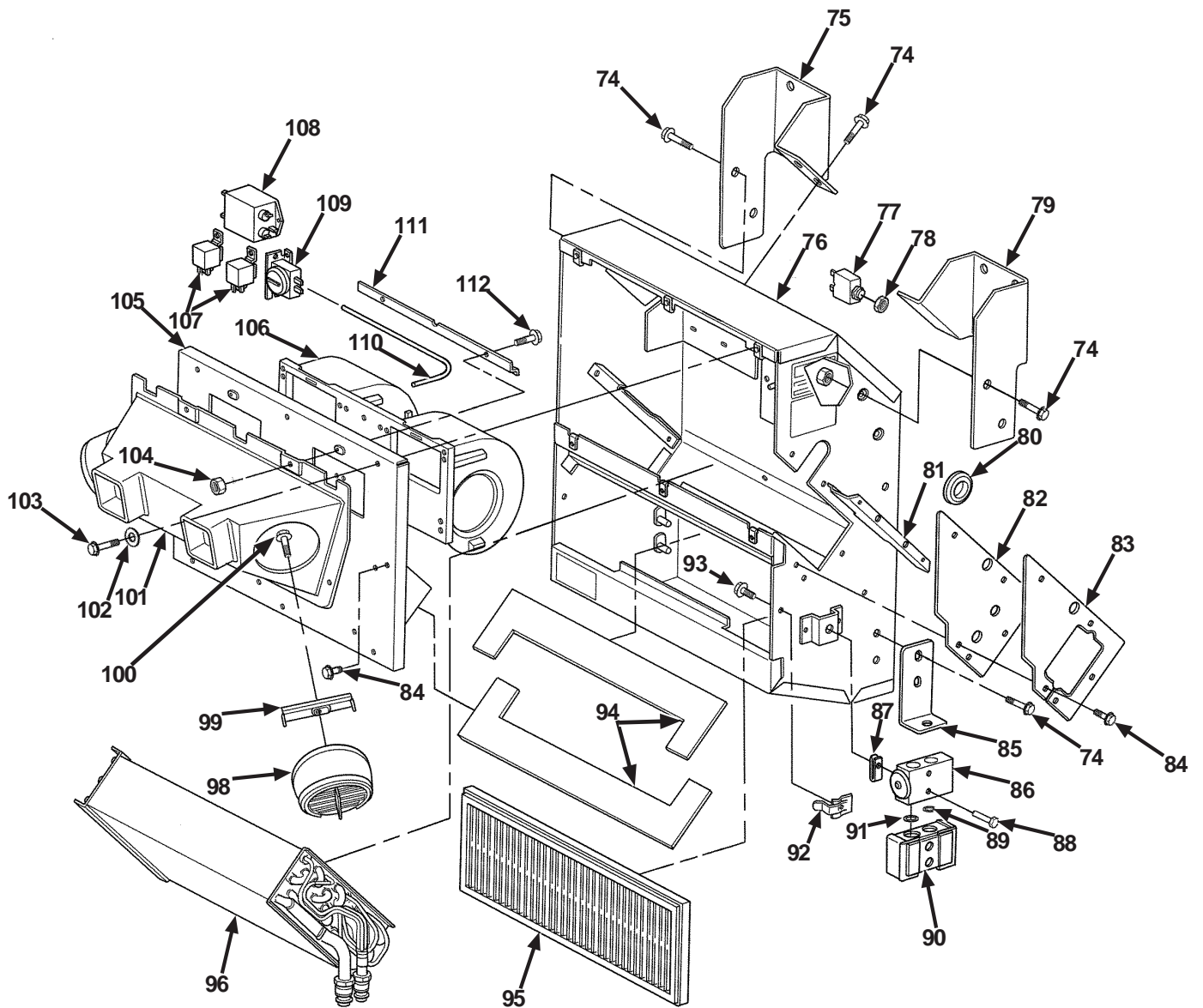


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 4 of 7)

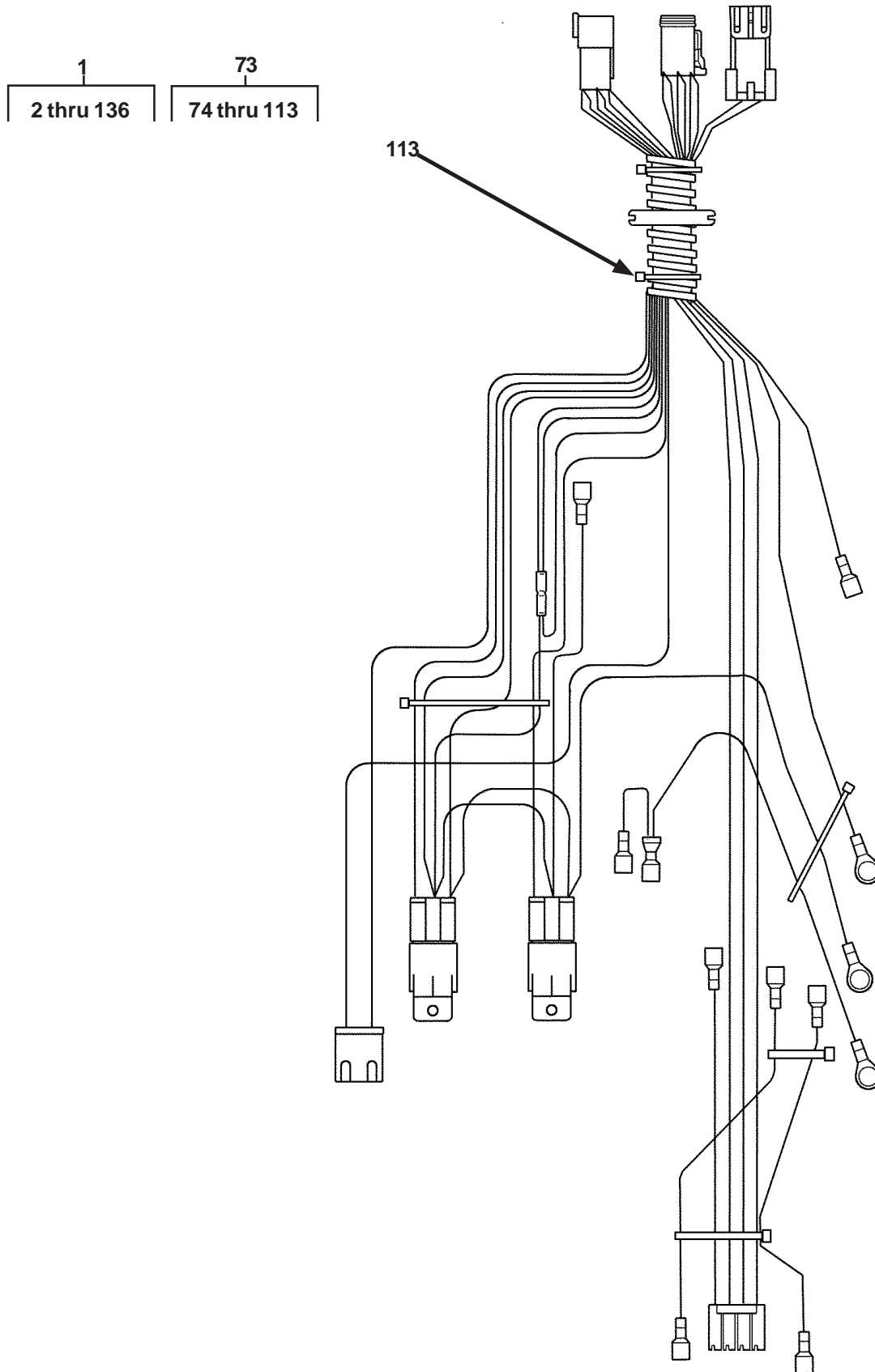


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 5 of 7)

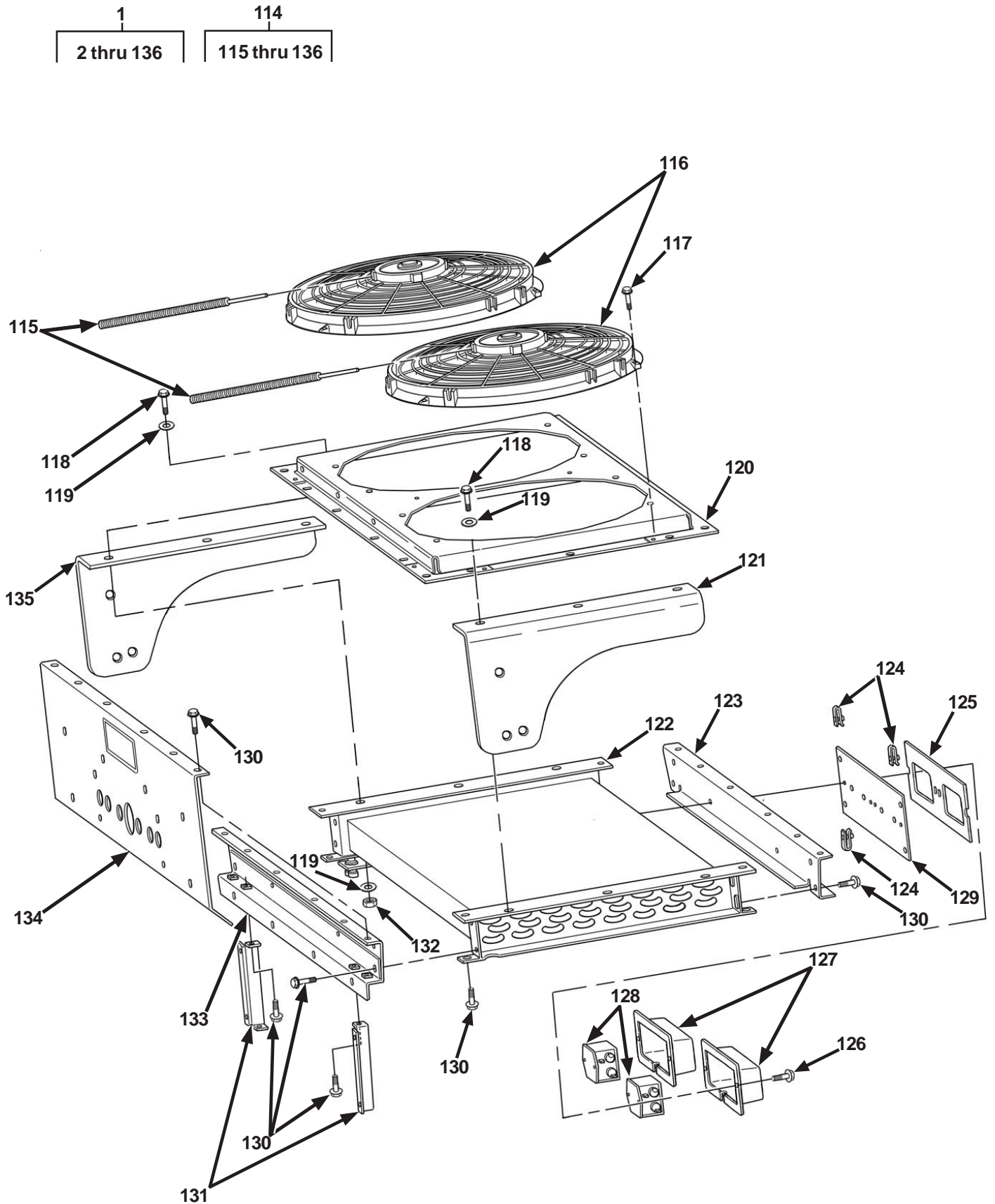


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 6 of 7)

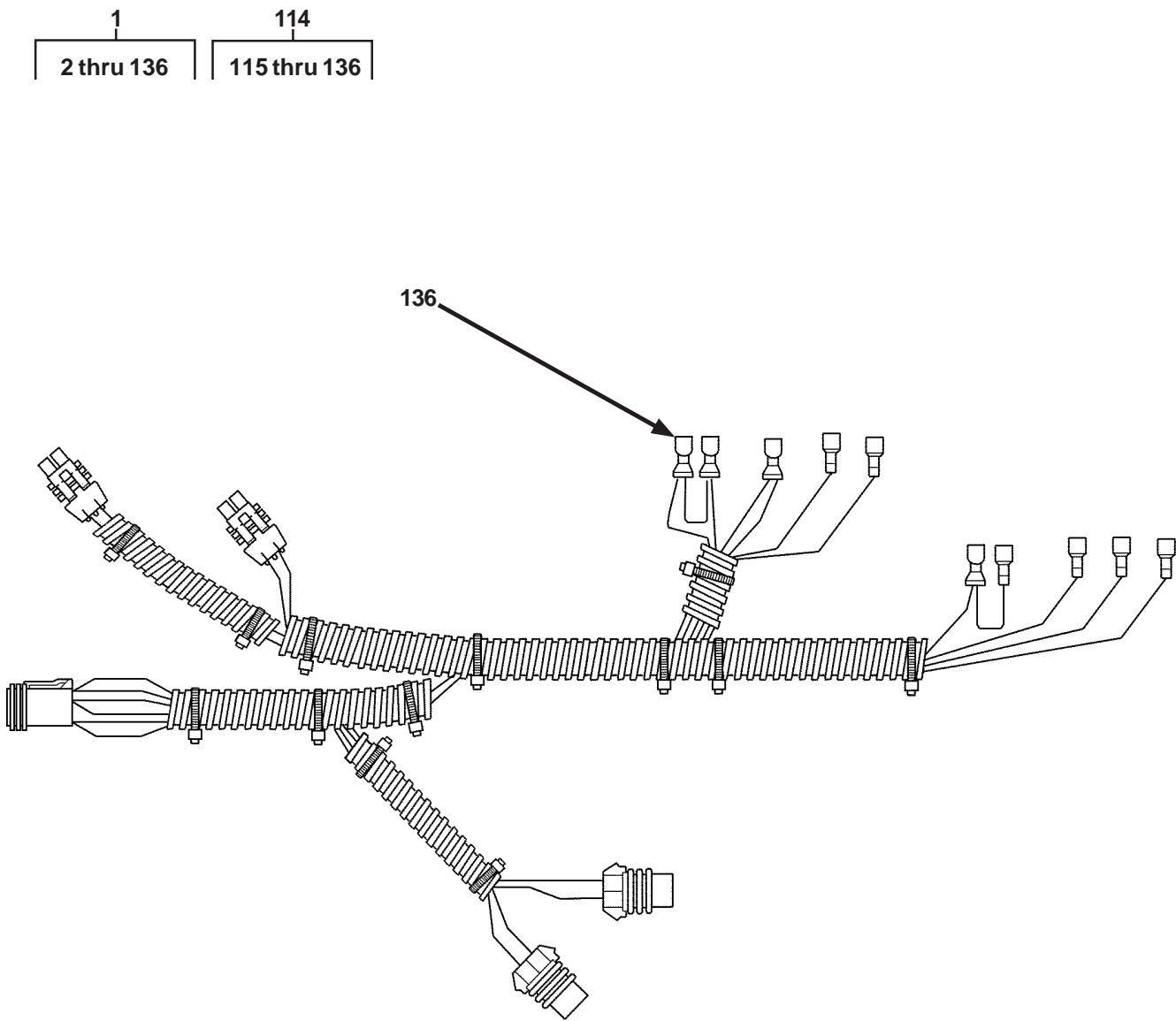


Figure 6. Air Conditioner Kit for M1097 and M1097A1 Two-Door with GSIE Armor (Sheet 7 of 7)

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 6 AIR CONDITIONER KIT FOR M1097 AND M1097A1 TWO-DOOR WITH GSIE ARMOR	
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:AVY,HVY	
2	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:AVY,HVY	
3	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:AVY,HVY	
4	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	4
					UOC:AVY,HVY	
5	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP . . . . .	8
					UOC:AVY,HVY	
6	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE,NONMETALLIC #12 REFRIG . . . . .	1
					UOC:AVY,HVY	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:AVY,HVY	
8	PAOZZ	4730015237227	62534	RD-5-10510-0P	.ADAPTER,STRAIGHT . . . . .	1
					UOC:AVY,HVY	
9	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:AVY,HVY	
10	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:AVY,HVY	
11	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE,NONMETALLIC #8 REFRIG . . . . .	1
					UOC:AVY,HVY	
12	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG . . . . .	1
					UOC:AVY,HVY	
13	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 . . . . .	2
					UOC:AVY,HVY	
14	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER,PIPE #10/#12 90° MALE . . . . .	1
					UOC:AVY,HVY	
15	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE,NONMETALLIC #12 CAGE . . . . .	2
					UOC:AVY,HVY	
16	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP,HOSE #12 CLIP . . . . .	4
					UOC:AVY,HVY	
17	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE,METALLIC . . . . .	1
					UOC:AVY,HVY	
18	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE,METALLIC . . . . .	1
					UOC:AVY,HVY	
19	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:AVY,HVY	
20	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:AVY,HVY	
21	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW,TUBE #6 90° FEMALE . . . . .	2
					UOC:AVY,HVY	
22	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER,LIQUID REFRIGERANT . . . . .	1
					UOC:AVY,HVY	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP, HOSE UOC: AVY, HVY	2
24	PAOZZ	5305015258598	62534	RD-5-11433-1- 20	.SCREW, CAP, HEXAGON HEAD UOC: AVY, HVY	8
25	PAOZZ	5310015258498	62534	RD-5-4215-0	.WASHER, FLAT UOC: AVY, HVY	1
26	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW, AIR CONDITIONING-HEATING UOC: AVY, HVY	1
27	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW, ASSEMBLED WASHER UOC: AVY, HVY	15
28	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT, SELF-LOCKING, HEXAGON HEAD UOC: AVY, HVY	9
29	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET, NONMETALLIC UOC: AVY, HVY	2
30	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET, MOUNTING COMPRESSOR UOC: AVY, HVY	1
31	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER, LOCK UOC: AVY, HVY	1
32	PAOZZ	5305015258583	62534	RD-5-6250-0- 55	.SCREW, MACHINE UOC: AVY, HVY	1
33	PAOZZ	5305015258603	62534	RD-5-6250-0- 30	.SCREW, MACHINE UOC: AVY, HVY	1
34	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT, SELF-LOCKING, HEXAGON UOC: AVY, HVY	1
35	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY, GROOVE 5 UOC: AVY, HVY	1
36	PAOZZ	5305015298139	62534	RD-5-6250-0- 50	.SCREW, CAP, HEXAGON HEAD UOC: AVY, HVY	1
37	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER, FLAT 1/8 UOC: AVY, HVY	1
38	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER, FLAT 1/4 UOC: AVY, HVY	2
39	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	.SCREW, MACHINE UOC: AVY, HVY	1
40	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM, ADJUSTING, BELT TENSION UOC: AVY, HVY	1
41	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER, SLEEVE UOC: AVY, HVY	1
42	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT, V 44-5/8" UOC: AVY, HVY	1
43	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR, REFRIGERATION 24V 2A JD UOC: AVY, HVY	1
44	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW, TUBE TO HOSE #10 TO #12 90° FEMALE UOC: AVY, HVY	1
45	PAOZZ	4730015234950	62534	RD-5-10517-0P	.ELBOW, TUBE #8 45° FEMALE UOC: AVY, HVY	1

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
46	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET, NONMETALLIC . . . . . UOC: AVY, HVY	1
47	PAOZZ	5340015231579	62534	RD-4-5917-1P	.BRACKET, ANGLE . . . . . UOC: AVY, HVY	1
48	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	.BOLT, MACHINE . . . . . UOC: AVY, HVY	4
49	PAOZZ	5310015233710	62534	RD-5-11388-0	.WASHER, FLAT . . . . . UOC: AVY, HVY	16
50	PAOZZ	5340015237598	62534	RD-4-5916-0	.BRACKET, ANGLE . . . . . UOC: AVY, HVY	1
51	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT, SELF-LOCKING, HEXAGON . . . . . UOC: AVY, HVY	8
52	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX, ELECTRICAL . . . . . UOC: AVY, HVY	1
53	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW, MACHINE . . . . . UOC: AVY, HVY	4
54	PAOZZ	5340015233961	62534	RD-2-4221-0P	.BRACKET, MOUNTING EVAPORATOR . . . . . UOC: AVY, HVY	1
55	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER, FLAT . . . . . UOC: AVY, HVY	4
56	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	.BOLT, MACHINE . . . . . UOC: AVY, HVY	4
57	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW, CAP, HEXAGON HEAD . . . . . UOC: AVY, HVY	14
58	PAOZZ	5340015231682	62534	RD-2-4219-0P	.BRACKET, MOUNTING EVAPORATOR . . . . . UOC: AVY, HVY	1
59	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER, FLAT . . . . . UOC: AVY, HVY	14
60	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT, SELF-LOCKING, HEXAGON . . . . . UOC: AVY, HVY	14
61	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG, TUBE FITTING, THREADED . . . . . UOC: AVY, HVY	2
62	PAOZZ	4720015329536	62534	RD-5-6532-24P	.HOSE, NONMETALLIC . . . . . UOC: AVY, HVY	2
63	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP . . . . . UOC: AVY, HVY	2
64	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE . . . . . UOC: AVY, HVY	2
65	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR, AIR CIRCULATING . . . . . UOC: AVY, HVY	2
66	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET, MOUNTING EVAPORATOR, REAR . . . . . UOC: AVY, HVY	2
67	PAOZZ	5340015233707	62534	RD-2-4220-0P	.BRACKET, MOUNTING EVAPORATOR . . . . . UOC: AVY, HVY	1
68	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS, BRANCHED CONTROL PANEL UOC: AVY, HVY	1
69	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP, TIEDOWN, ELECTRICAL COMPONENTS . . . . .	10

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
70	PAOZZ	6150015251625	62534	RD-2-4160-0P	UOC:AVY,HVY .WIRING HARNESS CLUTCH .....	1
71	PAOZZ	6150015253955	62534	RD-2-4163-0P	UOC:AVY,HVY .WIRING HARNESS BATTERY .....	1
72	PAOZZ	6150015330936	62534	RD-4-5958-0P	UOC:AVY,HVY .WIRING HARNESS,BRANCHED .....	1
73	PAOOO	TBD	62534	RD-2-4115	UOC:AVY,HVY .AIR CONDITIONER (SERVICE PARTS R-2400) .....	1
74	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	12
75	PAOZZ	5340015236753	62534	RD-2-4222-0P	UOC:AVY,HVY ..BRACKET,MOUNTING .....	1
76	PAOZZ	5340015238425	62534	RD-2-4116-0	UOC:AVY,HVY ..COVER,ACCESS .....	1
77	PAOZZ	5925015217620	62534	RD-5-11437-0P	UOC:AVY,HVY ..CIRCUIT BREAKER 30 AMP .....	1
78	PAOZZ	5310015252737	62534	RD-5-4133-0M	UOC:AVY,HVY ..NUT,PLAIN,HEXAGON 7/16-28 .....	1
79	PAOZZ	5340015231015	62534	RD-2-4222-1	UOC:AVY,HVY ..BRACKET,MOUNTING .....	1
80	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC:AVY,HVY ..GROMMET,NONMETALLIC .....	1
81	PAOZZ	5340015232793	62534	RD-2-4122-0P	UOC:AVY,HVY ..STRAP,RETAINING .....	1
82	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:AVY,HVY ..GASKET .....	1
83	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:AVY,HVY ..PLATE,RETAINING,SEAL .....	1
84	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	14
85	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:AVY,HVY ..BRACKET,ANGLE .....	2
86	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:AVY,HVY ..VALVE,EXPANSION R134a 2 TON .....	1
87	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:AVY,HVY ..NUT,CLIP M6 .....	1
88	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:AVY,HVY ..SCREW,ASSEMBLED WASHER .....	2
89	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:AVY,HVY ..O-RING #8 .....	1
90	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:AVY,HVY ..COVER,ACCESS .....	1
91	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:AVY,HVY ..O-RING #10 .....	1
92	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:AVY,HVY ..CLIP,SPRING,TENSION .....	2
93	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:AVY,HVY ..RIVET,BLIND .....	2



## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:AVY,HVY ..GASKET .....	2
95	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:AVY,HVY ..FILTER ELEMENT,AIR CONDITIONING ....	1
96	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:AVY,HVY ..EVAPORATOR COIL,REFRIGERATION .....	1
97	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:AVY,HVY ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
98	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:AVY,HVY ..DIFFUSER,AIR,HEATING AND VENTILATING .....	2
99	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:AVY,HVY ..RETAINER-DIFFUSER .....	2
100	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:AVY,HVY ..SCREW,ASSEMBLED WASHER .....	1
101	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:AVY,HVY ..DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1
102	PAOZZ	5310015179281	62534	RD-5-4556-1	UOC:AVY,HVY ..SCREW,ASSEMBLED WASHER .....	6
103	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	6
104	PAOZZ	5310015231558	62534	RD-5-4544-0	UOC:AVY,HVY ..NUT,SELF-LOCKING,HEXAGON .....	2
105	PAOZZ	5340015231985	62534	RD-2-4126-0P	UOC:AVY,HVY ..COVER,ACCESS .....	1
106	PAOZZ	4140015218532	62534	RD-5-11436-0P	UOC:AVY,HVY ..FAN,CENTRIFUGAL 24V .....	1
107	PAOZZ	5945015229738	62534	RD-5-4417-0P	UOC:AVY,HVY ..RELAY,ELECTROMAGNETIC .....	2
108	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:AVY,HVY ..FILTER ASSEMBLY,ELECTRICAL .....	1
109	PAOZZ	6685015174892	62534	RD-5-11440-0P	UOC:AVY,HVY ..THERMOSTAT,FLOW CONTROL .....	1
110	PAOZZ	4710015230548	62534	RD-5-3816-16P	UOC:AVY,HVY ..TUBE,BENT,METALLIC 1/8 I.D. ....	1
111	PAOZZ	5340015233993	62534	RD-2-4150-0P	UOC:AVY,HVY ..BRACKET,MOUNTING .....	1
112	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	2
113	PAOZZ	6150015214634	62534	RD-2-4153-0P	UOC:AVY,HVY ..WIRING HARNESS AIR CONDITIONER ....	1
114	PAOOO	4140015215780	62534	RD-4-5877-0P	UOC:AVY,HVY ..FAN,CIRCULATING .....	1
115	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC:AVY,HVY ..INSULATION SLEEVING,ELECTRICAL .....	2
116	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC:AVY,HVY ..FAN,CIRCULATING 24V .....	2

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
117	PAOZZ	5305015231683	62534	RD-5-8980-1-20	..SCREW, MACHINE UOC:AVY, HVY	8
118	PAOZZ	5306015231006	62534	RD-5-11390-0-1.500M	..BOLT, MACHINE UOC:AVY, HVY	6
119	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER, FLAT UOC:AVY, HVY	12
120	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER, ACCESS UOC:AVY, HVY	1
121	PAOZZ	5340015236759	62534	RD-4-5899-1P	..PLATE, MOUNTING UOC:AVY, HVY	1
122	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL, REFRIGATION UOC:AVY, HVY	1
123	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME, STRUCTUAL, VEHICULAR UOC:AVY, HVY	1
124	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT, CLIP M6 UOC:AVY, HVY	4
125	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET UOC:AVY, HVY	1
126	PAOZZ	TBD	62534	RD-5-7212-1-.375	..SCREW UOC:AVY, HVY	8
127	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER, ACCESS UOC:AVY, HVY	2
128	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY, ELECTRICAL UOC:AVY, HVY	2
129	PAOZZ	5340015251931	62534	RD-4-5968-0P	..PLATE, MOUNTING UOC:AVY, HVY	1
130	PAOZZ	5305015179283	62534	RD-5-8222-1-16	..SCREW, ASSEMBLED WASHER UOC:AVY, HVY	30
131	PAOZZ	5340015232444	62534	RD-4-5875-0P	..BRACKET, MOUNTING UOC:AVY, HVY	2
132	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT, SELF-LOCKING, HEXAGON UOC:AVY, HVY	9
133	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME, STRUCTURAL, VEHICULAR UOC:AVY, HVY	1
134	PAOZZ	5340015251963	62534	RD-4-5951-0P	..DEFLECTOR, DIRT AND LIQUID UOC:AVY, HVY	1
135	PAOZZ	5340015241884	62534	RD-4-5893-1P	..PLATE, MOUNTING UOC:AVY, HVY	1
136	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS, BRANCHED CONDENSER UOC:AVY, HVY	1

END OF FIGURE

1  
2 thru 142

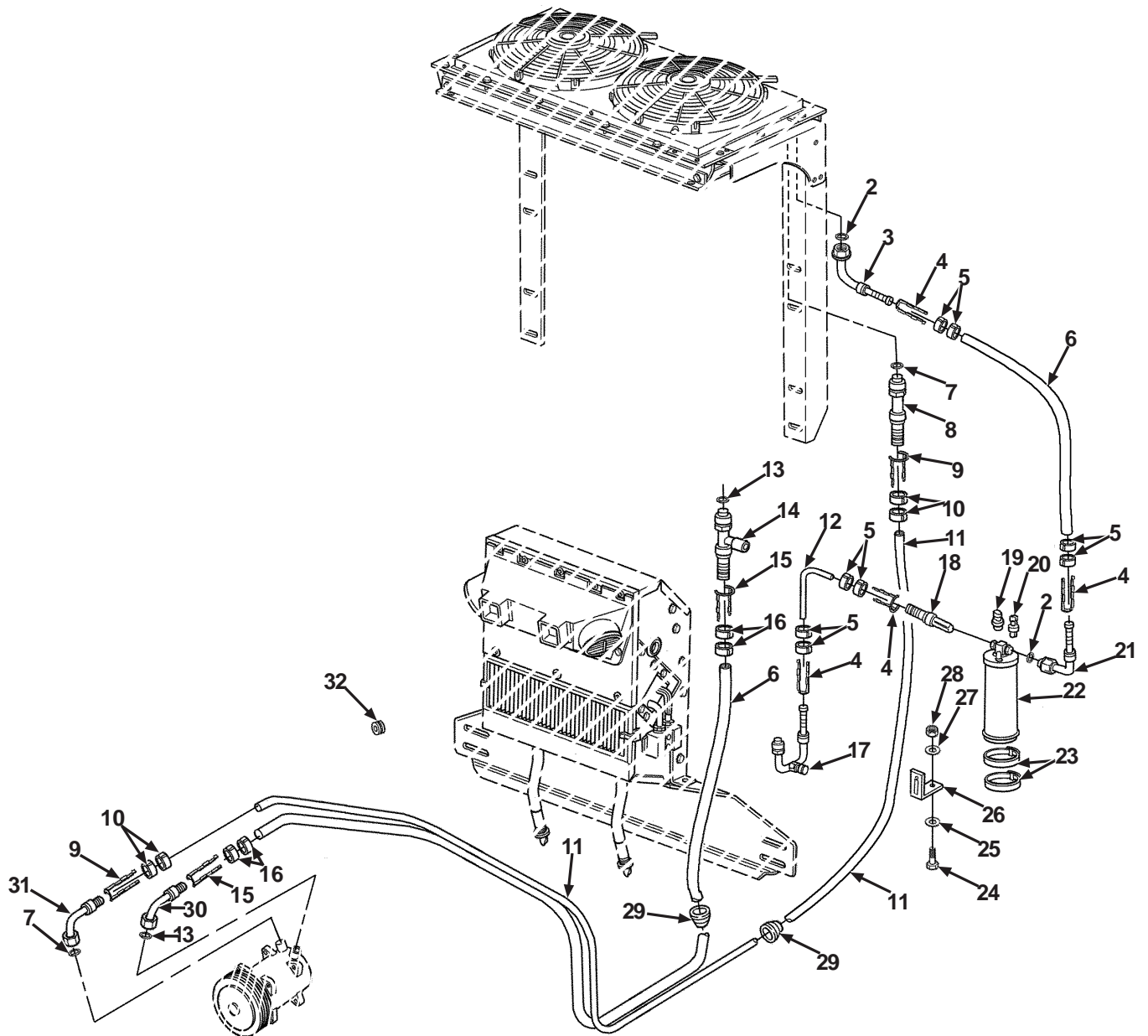
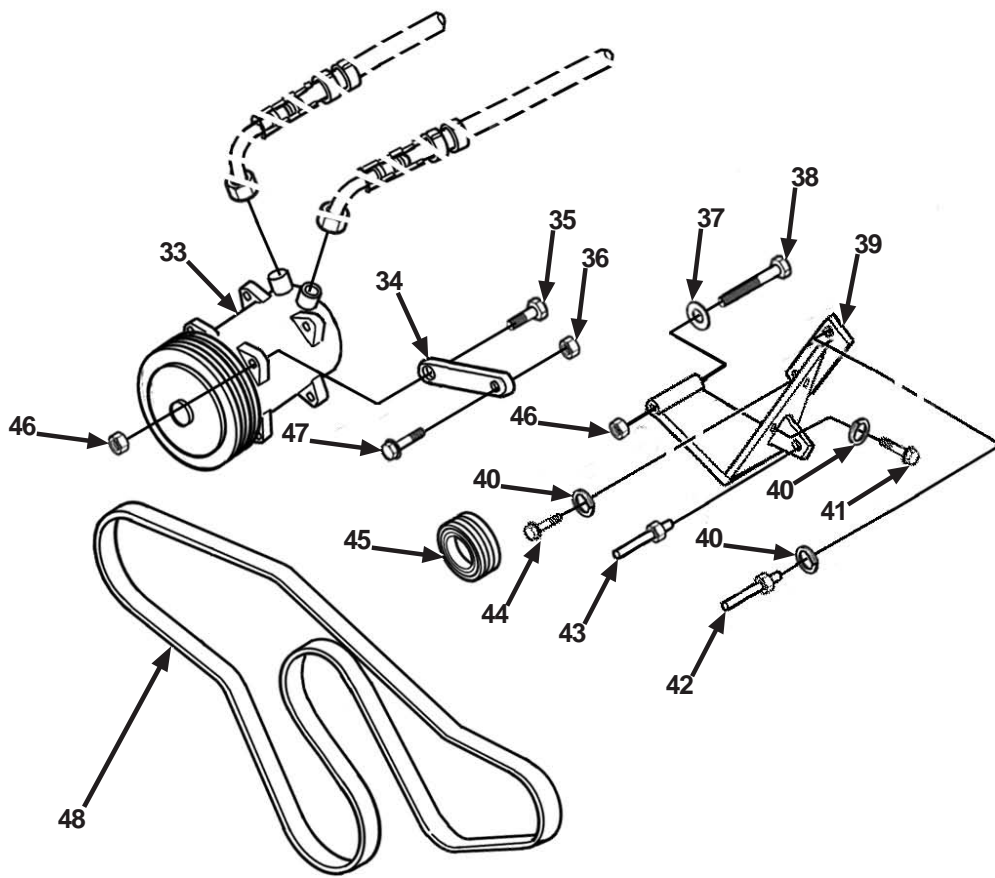
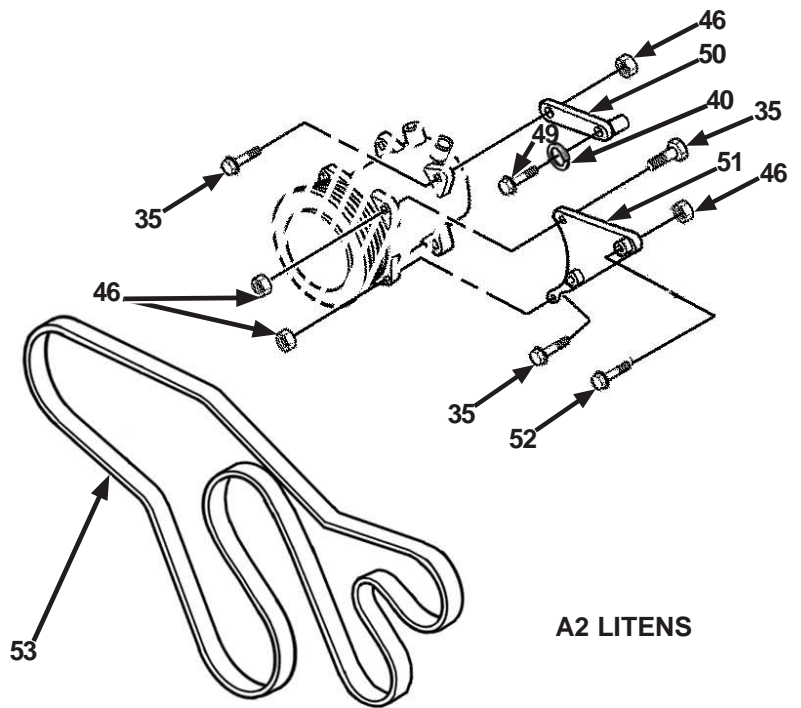


Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 1 of 8)

1  
2 thru 142



A2 PRE-LITENS



A2 LITENS

Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 2 of 8)



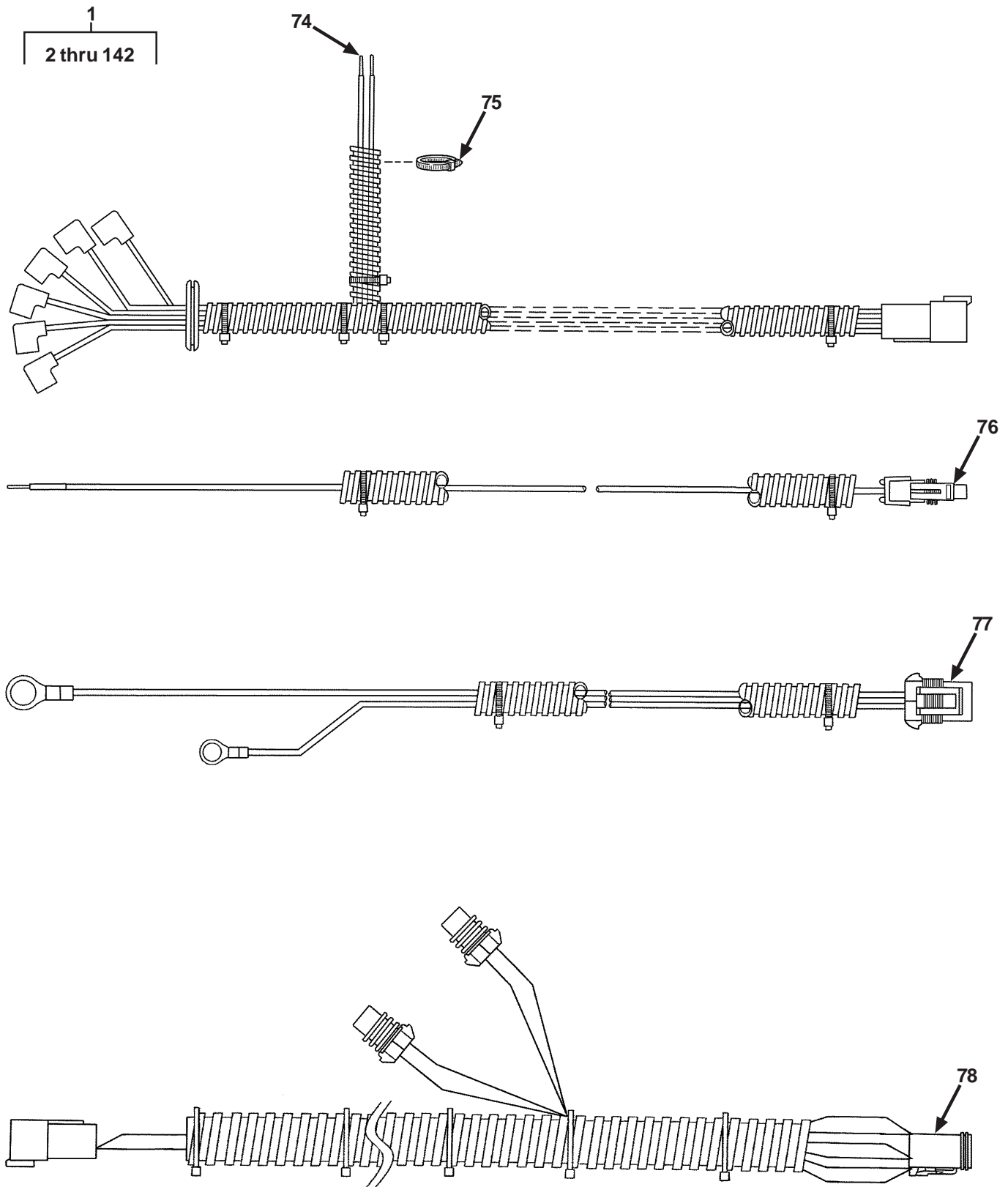


Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 4 of 8)

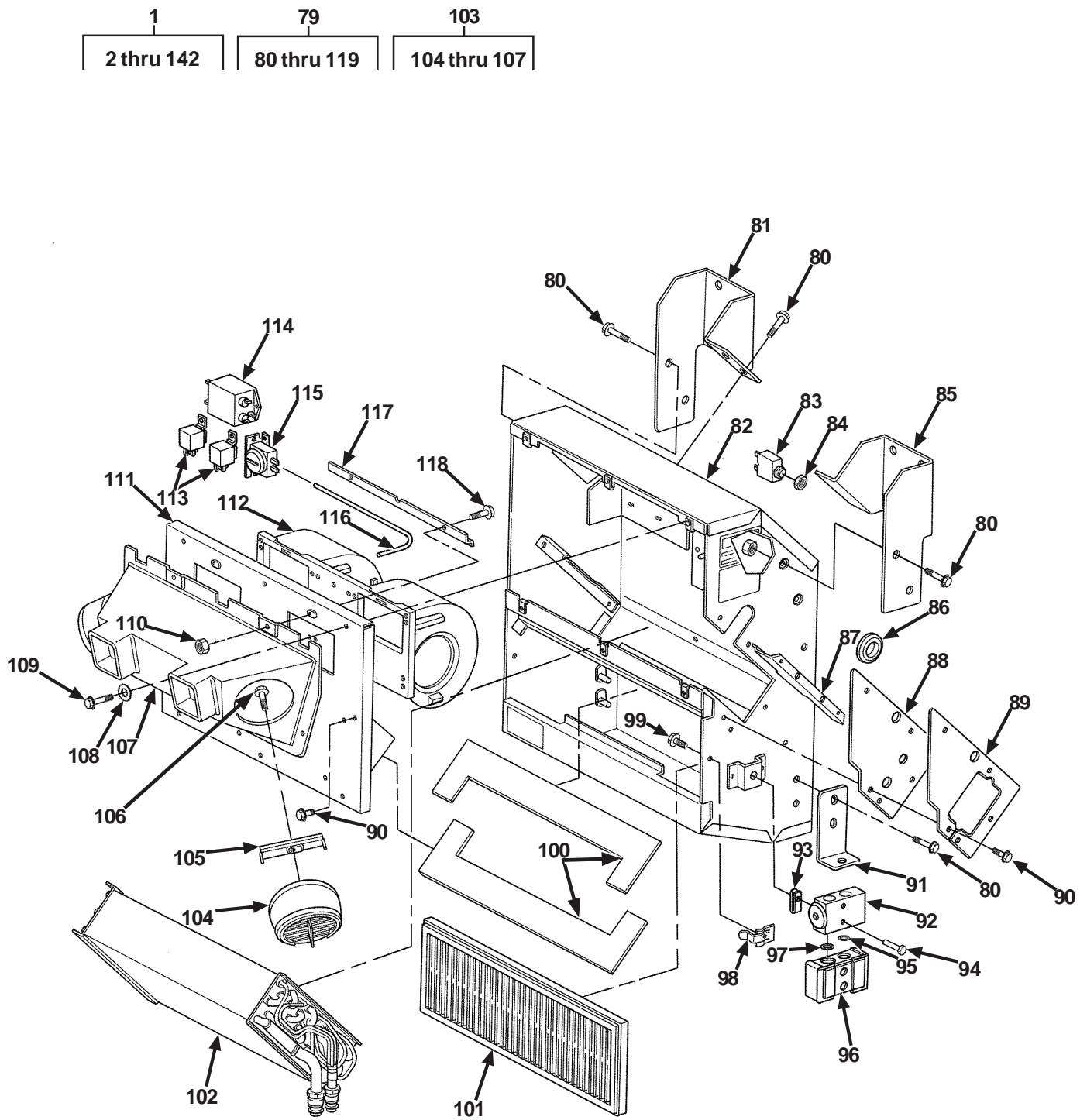


Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 5 of 8)

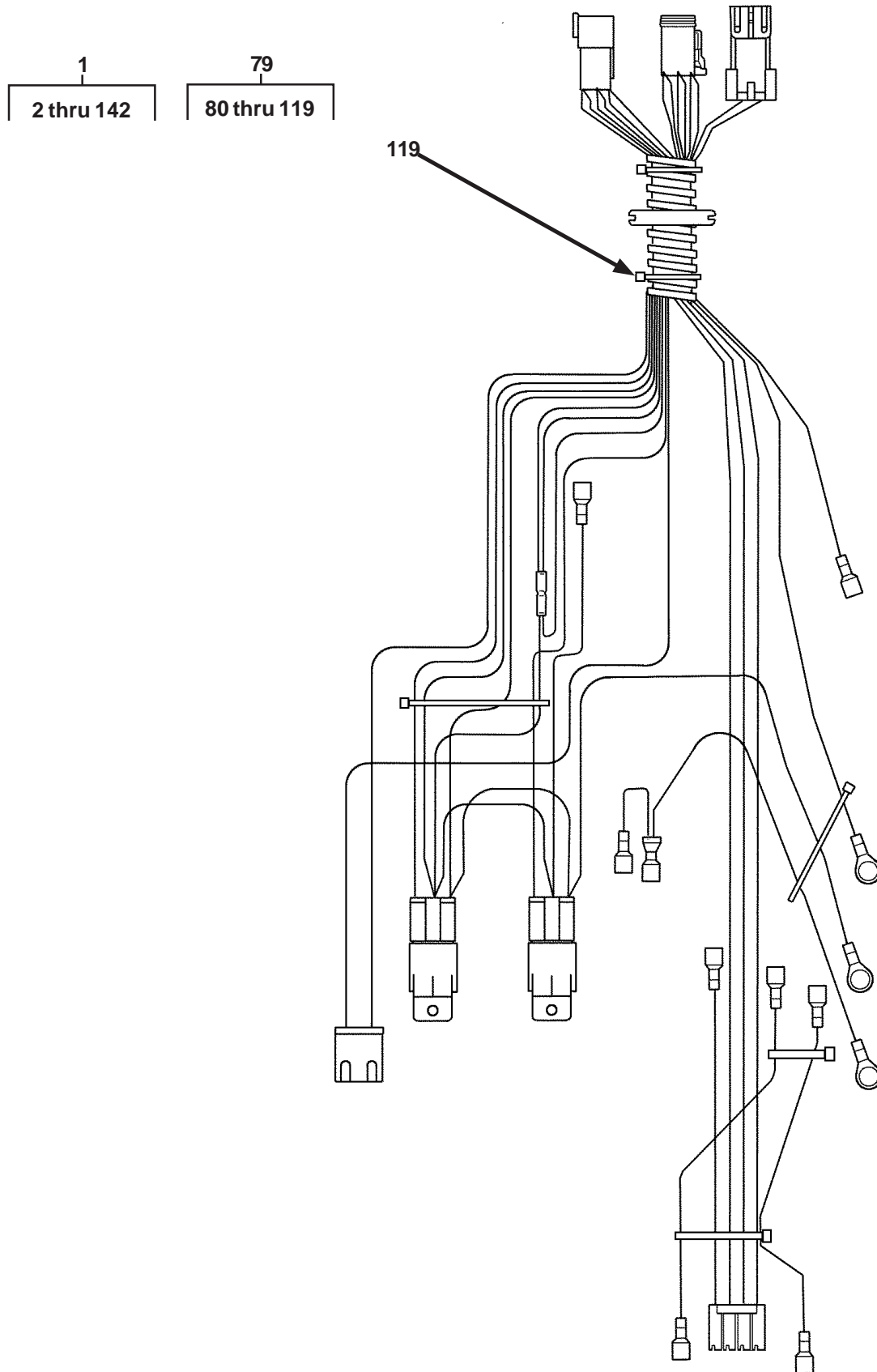


Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 6 of 8)



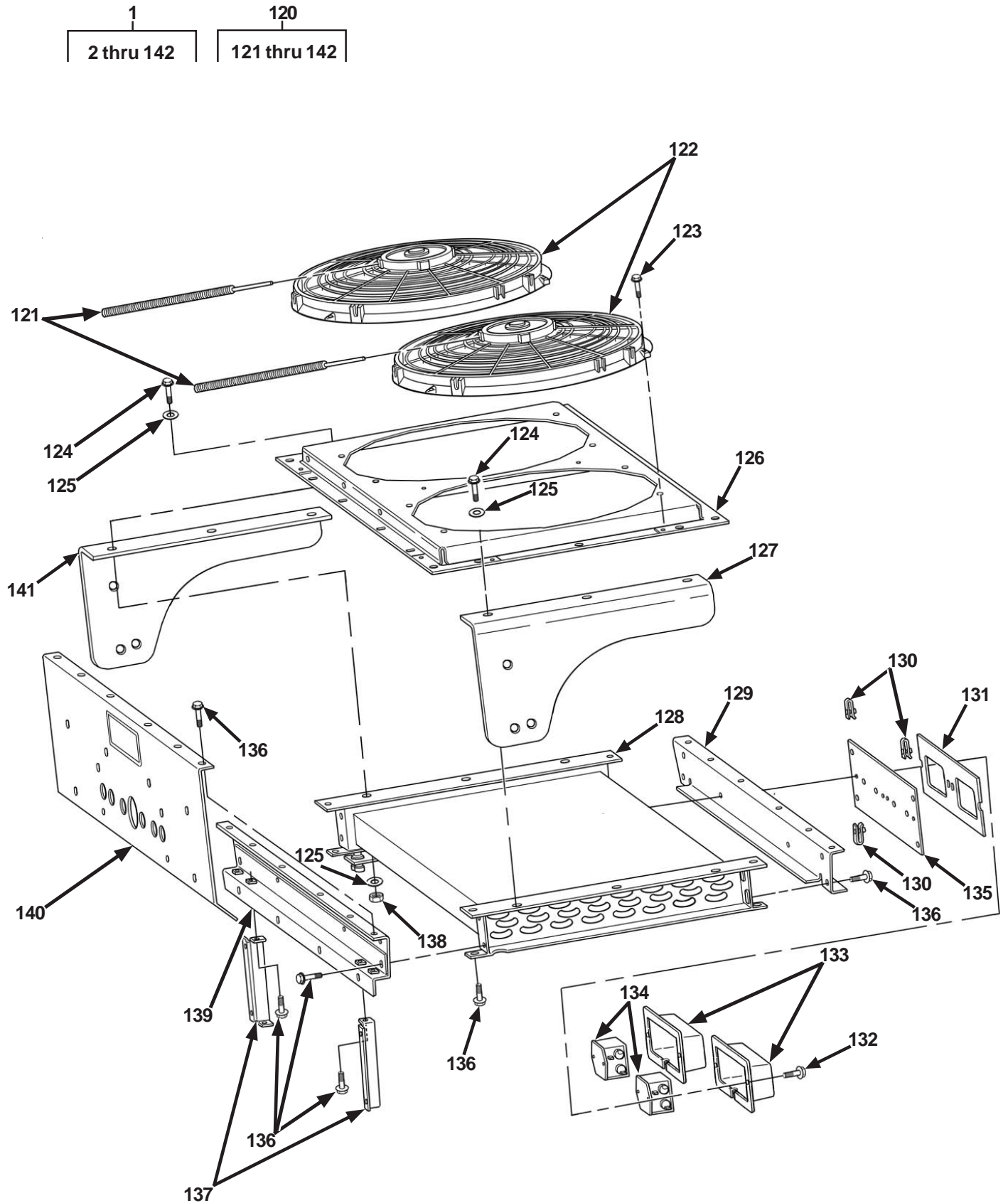


Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 7 of 8)

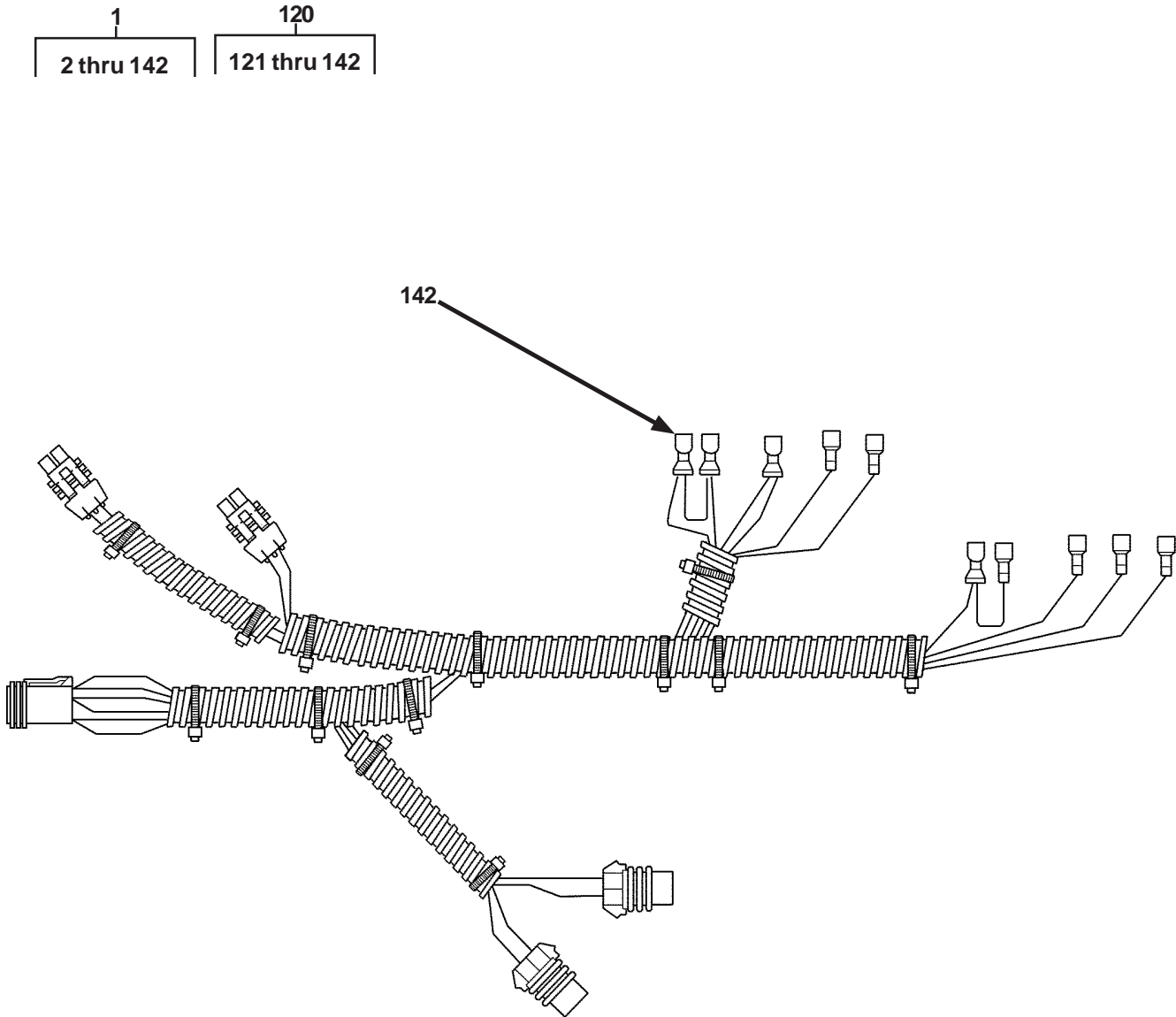


Figure 7. Air Conditioner Kit for M1097A2 Two-Door with GSIE Armor with Pre-Litens/Litens (Sheet 8 of 8)

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 7 AIR CONDITIONER KIT FOR M1097A2 TWO-DOOR WITH GSIE ARMOR WITH PRE-LITENS/LITENS	
1	PAOOO	4130015233966	62534	RD-2-4233-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:BVY	
2	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:BVY	
3	PAOZZ	4730015245104	62534	RD-5-10516-0P	.ELBOW,TUBE #6 45° FEMALE . . . . .	1
					UOC:BVY	
4	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE, NONMETALLIC #6 CAGE . . . . .	4
					UOC:BVY	
5	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE, NONMETALLIC #6 CLIP . . . . .	8
					UOC:BVY	
6	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE, NONMETALLIC #12 REFRIG . . . . .	1
					UOC:BVY	
7	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	1
					UOC:BVY	
8	PAOZZ	4730015237227	62534	RD-5-10510-0P	.ADAPTER, STRAIGHT #8 FEMALE . . . . .	1
					UOC:BVY	
9	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE, NONMETALLIC #8 CAGE . . . . .	2
					UOC:BVY	
10	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE, NONMETALLIC #8 CLIP . . . . .	4
					UOC:BVY	
11	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE, NONMETALLIC #8 REFRIG . . . . .	1
					UOC:BVY	
12	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE, METALLIC #6 REFRIG . . . . .	1
					UOC:BVY	
13	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 . . . . .	1
					UOC:BVY	
14	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER, PIPE #10/#12 90° MALE . . . . .	1
					UOC:BVY	
15	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE, NONMETALLIC #12 CAGE . . . . .	2
					UOC:BVY	
16	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP, HOSE #12 CLIP . . . . .	4
					UOC:BVY	
17	PAOZZ	4710015233734	62534	RD-4-5879-0P	.TUBE, METALLIC . . . . .	1
					UOC:BVY	
18	PAOZZ	4710015237739	62534	RD-4-5878-0P	.TUBE, METALLIC . . . . .	1
					UOC:BVY	
19	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH, PRESSURE . . . . .	1
					UOC:BVY	
20	PAOZZ	5930015247887	62534	RD-5-11064-0P	.SWITCH, PRESSURE . . . . .	1
					UOC:BVY	
21	PAOZZ	4730015238622	62534	RD-5-10520-0P	.ELBOW, TUBE #6 90° FEMALE . . . . .	2
					UOC:BVY	
22	PAOZZ	4130015215745	62534	RD-5-11435-0P	.RECEIVER, LIQUID REFRIGERANT . . . . .	1
					UOC:BVY	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP,HOSE ..... UOC:BVY	2
24	PAOZZ	5305015258598	62534	RD-5-11433-1- 20	.SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	8
25	PAOZZ	5310015258498	62534	RD-5-4215-0	.WASHER,FLAT ..... UOC:BVY	1
26	PAOZZ	4520015258636	62534	RD-4-5926-1	.ELBOW,AIR CONDITIONING-HEATING ..... UOC:BVY	1
27	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW,ASSEMBLED WASHER ..... UOC:BVY	15
28	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD ..... UOC:BVY	9
29	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC ..... UOC:BVY	2
30	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW,TUBE TO HOSE #10 TO #12 90° FEMALE ..... UOC:BVY	1
31	PAOZZ	4730015254521	62534	RD-5-10522-0P	.ELBOW,TUBE #8 90° FEMALE ..... UOC:BVY	1
32	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET,NONMETALLIC ..... UOC:BVY	1
33	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR,REFRIGERATION 24V 2A JD ..... UOC:BVY	1
34	PAOZZ	5340015297711	62534	RD-9-10008-0	.BRACKET,MOUNTING ..... UOC:BVY	1
35	PAOZZ	5305015297949	62534	RD-5-6250-0-40	.SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	4
36	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:BVY	9
37	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER,FLAT 1/4 ..... UOC:BVY	2
38	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	.SCREW,MACHINE ..... UOC:BVY	1
39	PAOZZ	5340015295527	62534	RD-9-10006-0	.BRACKET,MOUNTING ..... UOC:BVY	1
40	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER,LOCK ..... UOC:BVY	4
41	PAOZZ	5305015298457	62534	RD-5-6141-0-25	.SCREW,MACHINE ..... UOC:BVY	1
42	PAOZZ	5307015295644	62534	RD-5-11397-0- 35-30	.STUD,PLAIN M10X1.50 HEX ..... UOC:BVY	1
43	PAOZZ	5307015297212	62534	RD-5-11397-0- 30-20	.STUD,PLAIN M10X1.50 HEX ..... UOC:BVY	1
44	PAOZZ	5305015297316	62534	RD-5-6250-0-35	.SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	1
45	PAOZZ	3020015298066	62534	RD-9-10054-0	.PULLEY,GROOVE 8 ..... UOC:BVY	1
46	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:BVY	7

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
47	PAOZZ	5306015297375	62534	RD-5-11390-0- 2.250	UOC:BVY .BOLT,MACHINE .....	1
48	PAOZZ	3030015242451	62534	RD-5-11396-0P	UOC:BVY .BELT,V A2 PRE-LITENS .....	1
49	PAOZZ	5305015295657	62534	RD-5-6250-0-60	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	1
50	PAOZZ	TBD	62534	RD-9-10034-0	UOC:BVY .ARM,ADJUSTING COMPRESSOR ASSY .....	1
51	PAOZZ	5340015297655	62534	RD-9-10036-0	UOC:BVY .BRACKET,MOUNTING .....	1
52	PAOZZ	5305015298139	62534	RD-5-6250-0-50	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	2
53	PAOZZ	3030015242460	62534	RD-5-11792-0P	UOC:BVY .BELT,V A2 LITENS .....	1
54	PAOZZ	5340015231579	62534	RD-4-5917-1P	UOC:BVY .BRACKET,ANGLE .....	1
55	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	UOC:BVY .BOLT,MACHINE .....	4
56	PAOZZ	5310015233710	62534	RD-5-11388-0	UOC:BVY .WASHER,FLAT .....	16
57	PAOZZ	5340015237598	62534	RD-4-5916-0	UOC:BVY .BRACKET,ANGLE .....	1
58	PAOZZ	2540015217737	62534	RD-2-4158-0P	UOC:BVY .CONTROL BOX,ELECTRICAL .....	1
59	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	UOC:BVY .SCREW,MACHINE .....	4
60	PAOZZ	5340015233961	62534	RD-2-4221-0P	UOC:BVY .BRACKET,MOUNTING EVAPORATOR .....	1
61	PAOZZ	5310015260689	62534	RD-5-11389-0	UOC:BVY .WASHER,FLAT .....	4
62	PAOZZ	5306015258566	62534	RD-5-11390-0- 2.500	UOC:BVY .BOLT,MACHINE .....	4
63	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	14
64	PAOZZ	5340015231682	62534	RD-2-4219-0P	UOC:BVY .BRACKET,MOUNTING EVAPORATOR .....	1
65	PAOZZ	5310015334006	62534	RD-5-4043	UOC:BVY .WASHER,FLAT .....	14
66	PAOZZ	5310015258946	62534	RD-5-10818-0	UOC:BVY .NUT,SELF-LOCKING,HEXAGON .....	14
67	PAOZZ	4730015234097	62534	RD-5-5901-0P	UOC:BVY .PLUG,TUBE FITTING,THREADED .....	2
68	PAOZZ	4720015329536	62534	RD-5-6532-24P	UOC:BVY .HOSE,NONMETALLIC .....	2
69	PAOZZ	TBD	62534	RD-5-6666-0	UOC:BVY .CLAMP,LOOP .....	2
70	PAOZZ	4730015205375	62534	RD-5-7196-0	UOC:BVY .UNION,PIPE TO HOSE .....	2

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
71	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR,AIR CIRCULATING ..... UOC:BVY	2
72	PAOZZ	5340015264976	62534	RD-2-4140-0	.BRACKET,MOUNTING EVAPORATOR,REAR ... UOC:BVY	2
73	PAOZZ	5340015233707	62534	RD-2-4220-0P	.BRACKET,MOUNTING EVAPORATOR ..... UOC:BVY	1
74	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS,BRANCHED CONTROL PANEL ..... UOC:BVY	1
75	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP,TIEDOWN,ELECTRICAL COMPONENTS ..... UOC:BVY	10
76	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH ..... UOC:BVY	1
77	PAOZZ	6150015253955	62534	RD-2-4163-0P	.WIRING HARNESS BATTERY ..... UOC:BVY	1
78	PAOZZ	6150015330936	62534	RD-4-5958-0P	.WIRING HARNESS,BRANCHED ..... UOC:BVY	1
79	PAOOO	TBD	62534	RD-2-4115	.AIR CONDITIONER (SERVICE PARTS R-2400) ..... UOC:BVY	1
80	PAOZZ	5305015232459	62534	RD-5-5351-1-25	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	12
81	PAOZZ	5340015236753	62534	RD-2-4222-0P	..BRACKET,MOUNTING ..... UOC:BVY	1
82	PAOZZ	5340015238425	62534	RD-2-4116-0	..COVER,ACCESS ..... UOC:BVY	1
83	PAOZZ	5925015217620	62534	RD-5-11437-0P	..CIRCUIT BREAKER 30 AMP ..... UOC:BVY	1
84	PAOZZ	5310015252737	62534	RD-5-4133-0M	..NUT,PLAIN,HEXAGON 7/16-28 ..... UOC:BVY	1
85	PAOZZ	5340015231015	62534	RD-2-4222-1	..BRACKET,MOUNTING ..... UOC:BVY	1
86	PAOZZ	5325015248831	62534	RD-5-4053-0P	..GROMMET,NONMETALLIC ..... UOC:BVY	1
87	PAOZZ	5340015232793	62534	RD-2-4122-0P	..STRAP,RETAINING ..... UOC:BVY	1
88	PAOZZ	5330015233722	62534	RD-2-4136-0P	..GASKET ..... UOC:BVY	1
89	PAOZZ	5340015233992	62534	RD-2-4128-0P	..PLATE,RETAINING,SEAL ..... UOC:BVY	1
90	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	14
91	PAOZZ	5340015241893	62534	RD-2-4142-0	..BRACKET,ANGLE ..... UOC:BVY	2
92	PAOZZ	4820015177304	62534	RD-5-11438-0P	..VALVE,EXPANSION R134a 2 TON ..... UOC:BVY	1
93	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 ..... UOC:BVY	1

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5305015179757	62534	RD-5-5743-0-40	..SCREW,ASSEMBLED WASHER ..... UOC:BVY	2
95	PAOZZ	5331015249812	62534	RD-5-11016-0P	..O-RING #8 ..... UOC:BVY	1
96	PAOZZ	5340015242263	62534	RD-5-8410-0	..COVER,ACCESS ..... UOC:BVY	1
97	PAOZZ	5331015247872	62534	RD-5-11017-0P	..O-RING #10 ..... UOC:BVY	1
98	PAOZZ	5340015178600	62534	RD-5-6239-0	..CLIP,SPRING,TENSION ..... UOC:BVY	2
99	PAOZZ	5320015205086	62534	RD-5-5345-0	..RIVET,BLIND ..... UOC:BVY	2
100	PAOZZ	5330015233964	62534	RD-2-4149-0P	..GASKET ..... UOC:BVY	2
101	PAOZZ	4130015217486	62534	RD-2-4132-0P	..FILTER ELEMENT,AIR CONDITIONING .... UOC:BVY	1
102	PAOZZ	4130015216442	62534	RD-2-4129-0P	..EVAPORATOR COIL,REFRIGERATION ..... UOC:BVY	1
103	PAOOO	2540015217709	62534	RD-2-4169-0P	..DUCT ASSEMBLY,AIR CONDITIONING ..... UOC:BVY	1
104	PAOZZ	2540015360012	62534	RD-5-5223-2	..DIFFUSER,AIR,HEATING AND VENTILATING ..... UOC:BVY	2
105	PAOZZ	4520015324463	62534	RD-2-4131-0P	..RETAINER-DIFFUSER ..... UOC:BVY	2
106	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	..SCREW,ASSEMBLED WASHER ..... UOC:BVY	1
107	PAOZZ	2540015360113	62534	RD-2-4152-0P	..DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR ..... UOC:BVY	1
108	PAOZZ	5310015179281	62534	RD-5-4556-1	..SCREW,ASSEMBLED WASHER ..... UOC:BVY	6
109	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	6
110	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT,SELF-LOCKING,HEXAGON ..... UOC:BVY	2
111	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER,ACCESS ..... UOC:BVY	1
112	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN,CENTRIFUGAL 24V ..... UOC:BVY	1
113	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY,ELECTROMAGNETIC ..... UOC:BVY	2
114	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL ..... UOC:BVY	1
115	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT,FLOW CONTROL ..... UOC:BVY	1
116	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE,BENT,METALLIC 1/8 I.D. .... UOC:BVY	1
117	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET,MOUNTING ..... UOC:BVY	1

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
118	PAOZZ	5305015231009	62534	RD-5-5630-1-20M	UOC:BVY ..SCREW,CAP,HEXAGON HEAD .....	2
119	PAOZZ	6150015214634	62534	RD-2-4153-0P	UOC:BVY ..WIRING HARNESS AIR CONDITIONER ....	1
120	PAOOO	4140015215780	62534	RD-4-5877-0P	UOC:BVY ..FAN,CIRCULATING .....	1
121	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	UOC:BVY ..INSULATION SLEEVING,ELECTRICAL .....	2
122	PAOZZ	4140015216422	62534	RD-5-8785-3P	UOC:BVY ..FAN,CIRCULATING 24V .....	2
123	PAOZZ	5305015231683	62534	RD-5-8980-1-20	UOC:BVY ..SCREW,MACHINE .....	8
124	PAOZZ	5306015231006	62534	RD-5-11390-0-1.500M	UOC:BVY ..BOLT,MACHINE .....	6
125	PAOZZ	5310015233710	62534	RD-5-11388-0	UOC:BVY ..WASHER,FLAT .....	12
126	PAOZZ	5340015244491	62534	RD-4-59140P	UOC:BVY ..COVER,ACCESS .....	1
127	PAOZZ	5340015236759	62534	RD-4-5899-1P	UOC:BVY ..PLATE,MOUNTING .....	1
128	PAOZZ	4130015215757	62534	RD-4-5857-0P	UOC:BVY ..CONDENSER COIL,REFRIGATION .....	1
129	PAOZZ	2510015233685	62534	RD-4-5921-0P	UOC:BVY ..FRAME,STRUCTUAL,VEHICULAR .....	1
130	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:BVY ..NUT,CLIP M6 .....	4
131	PAOZZ	5330015233709	62534	RD-4-5947-0P	UOC:BVY ..GASKET .....	1
132	PAOZZ	TBD	62534	RD-5-7212-1-.375	UOC:BVY ..SCREW .....	8
133	PAOZZ	5340015232408	62534	RD-4-5886-0P	UOC:BVY ..COVER,ACCESS .....	2
134	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:BVY ..FILTER ASSEMBLY,ELECTRICAL .....	2
135	PAOZZ	5340015251931	62534	RD-4-5968-0P	UOC:BVY ..PLATE,MOUNTING .....	1
136	PAOZZ	5305015179283	62534	RD-5-8222-1-16	UOC:BVY ..SCREW,ASSEMBLED WASHER .....	30
137	PAOZZ	5340015232444	62534	RD-4-5875-0P	UOC:BVY ..BRACKET,MOUNTING .....	2
138	PAOZZ	5310015232651	62534	RD-5-11392-0	UOC:BVY ..NUT,SELF-LOCKING,HEXAGON .....	9
139	PAOZZ	2510015233670	62534	RD-4-59220P	UOC:BVY ..FRAME,STRUCTURAL,VEHICULAR .....	1
140	PAOZZ	5340015251963	62534	RD-4-5951-0P	UOC:BVY ..DEFLECTOR,DIRT AND LIQUID .....	1
141	PAOZZ	5340015241884	62534	RD-4-5893-1P	UOC:BVY ..PLATE,MOUNTING .....	1



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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
142	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS, BRANCHED CONDENSER ..... UOC: BVY	1
END OF FIGURE						

1  
2 thru 137

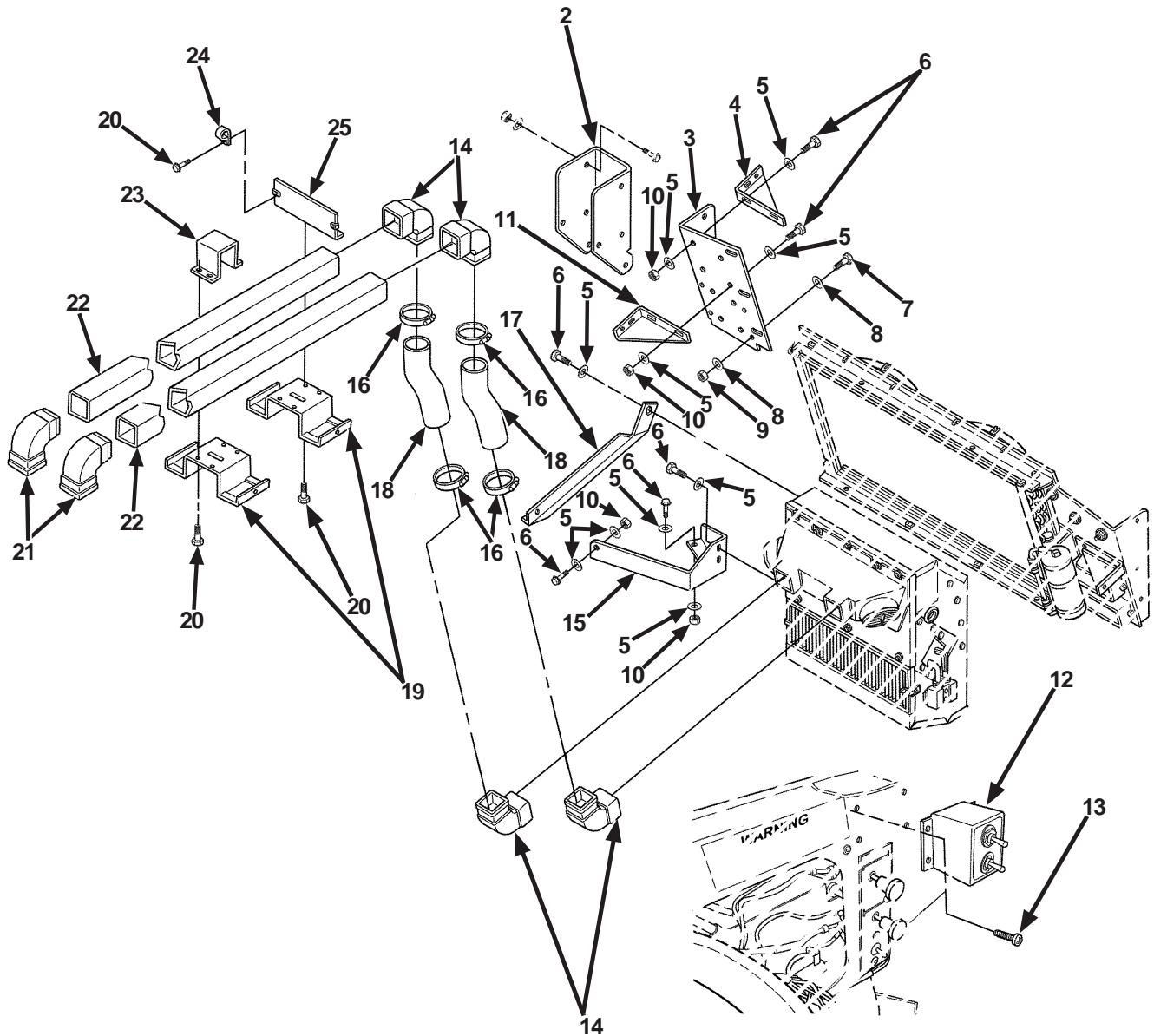


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 1 of 7)

1  
2 thru 137

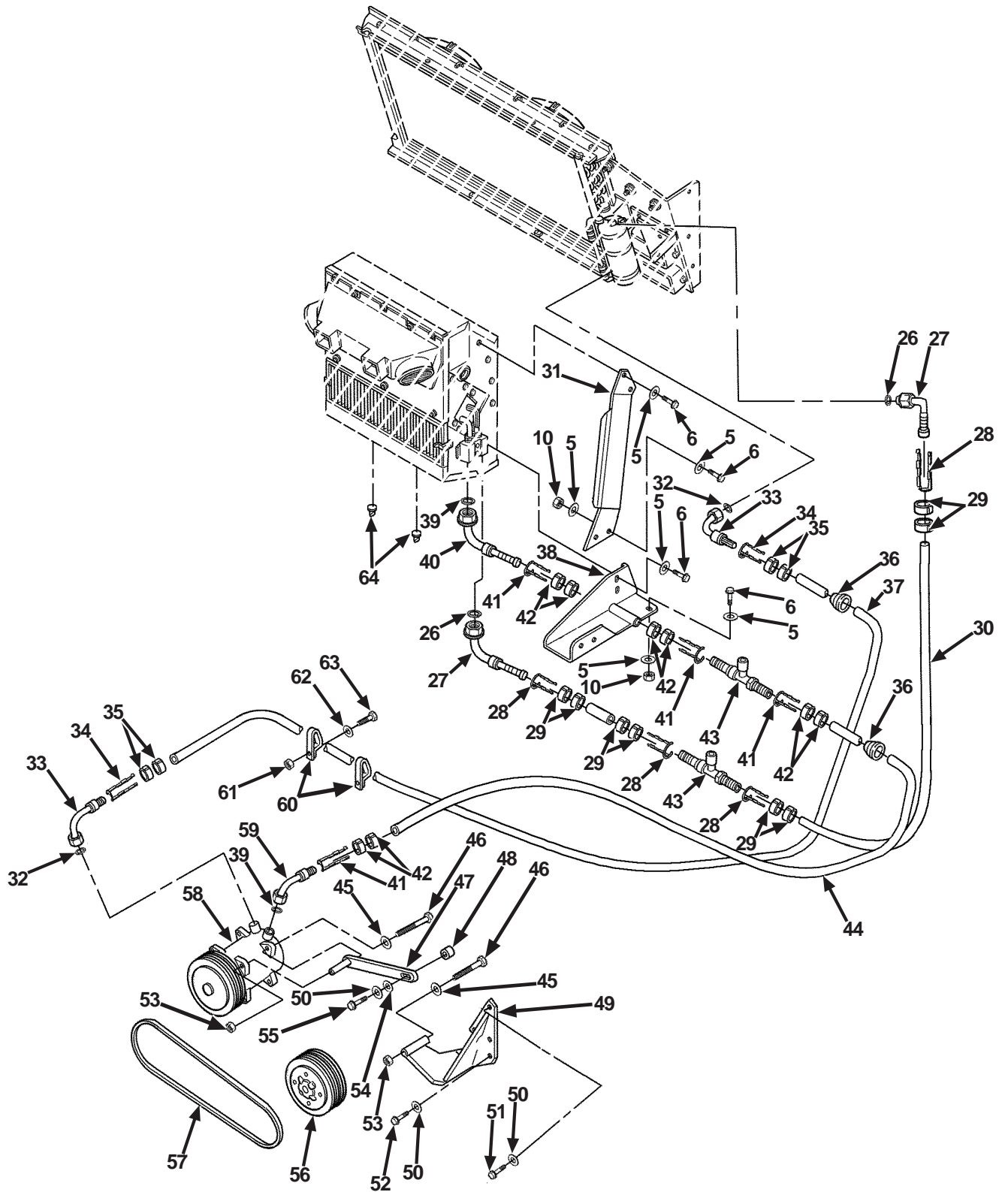


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 2 of 7)

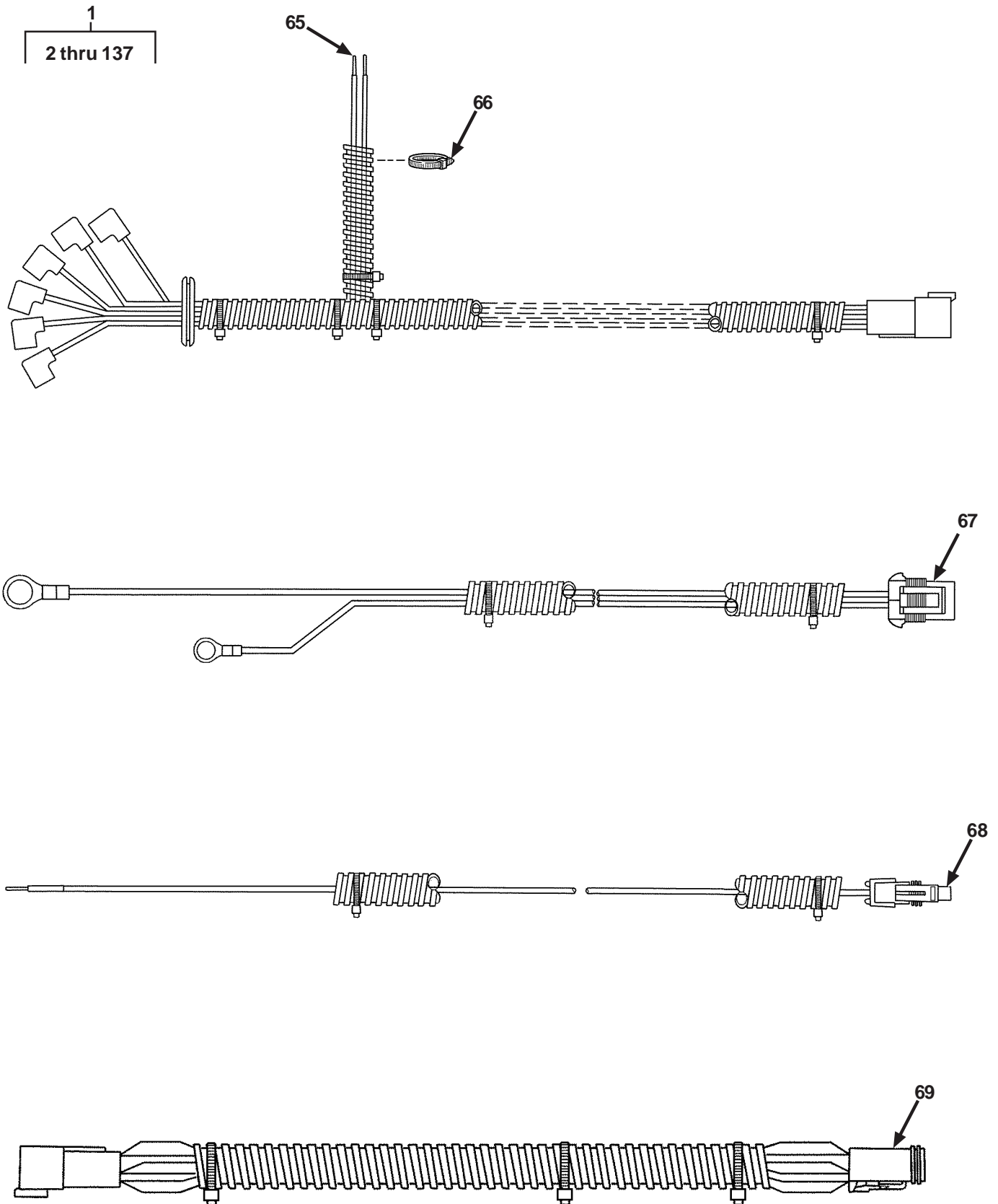


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 3 of 7)

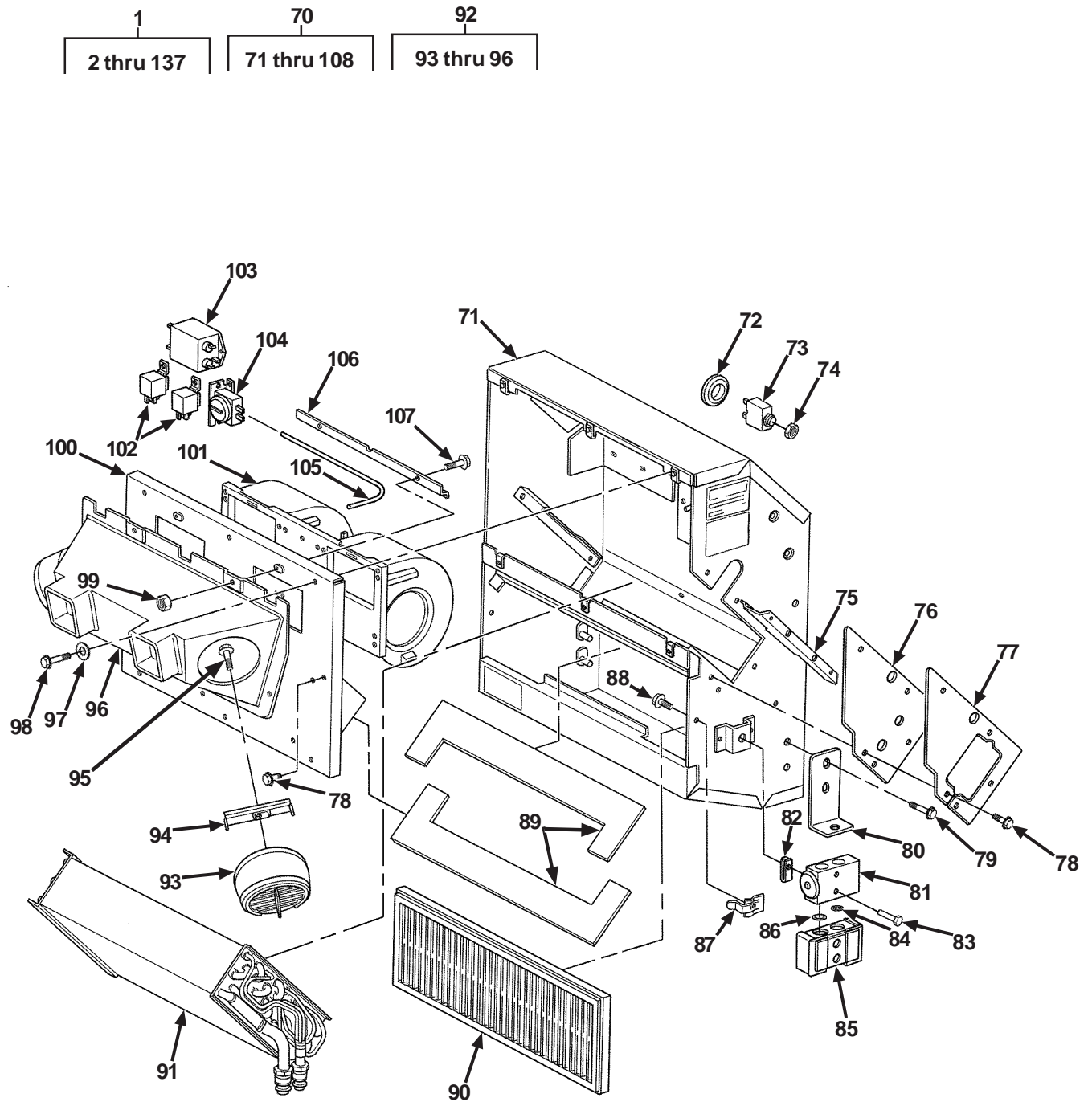


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 4 of 7)

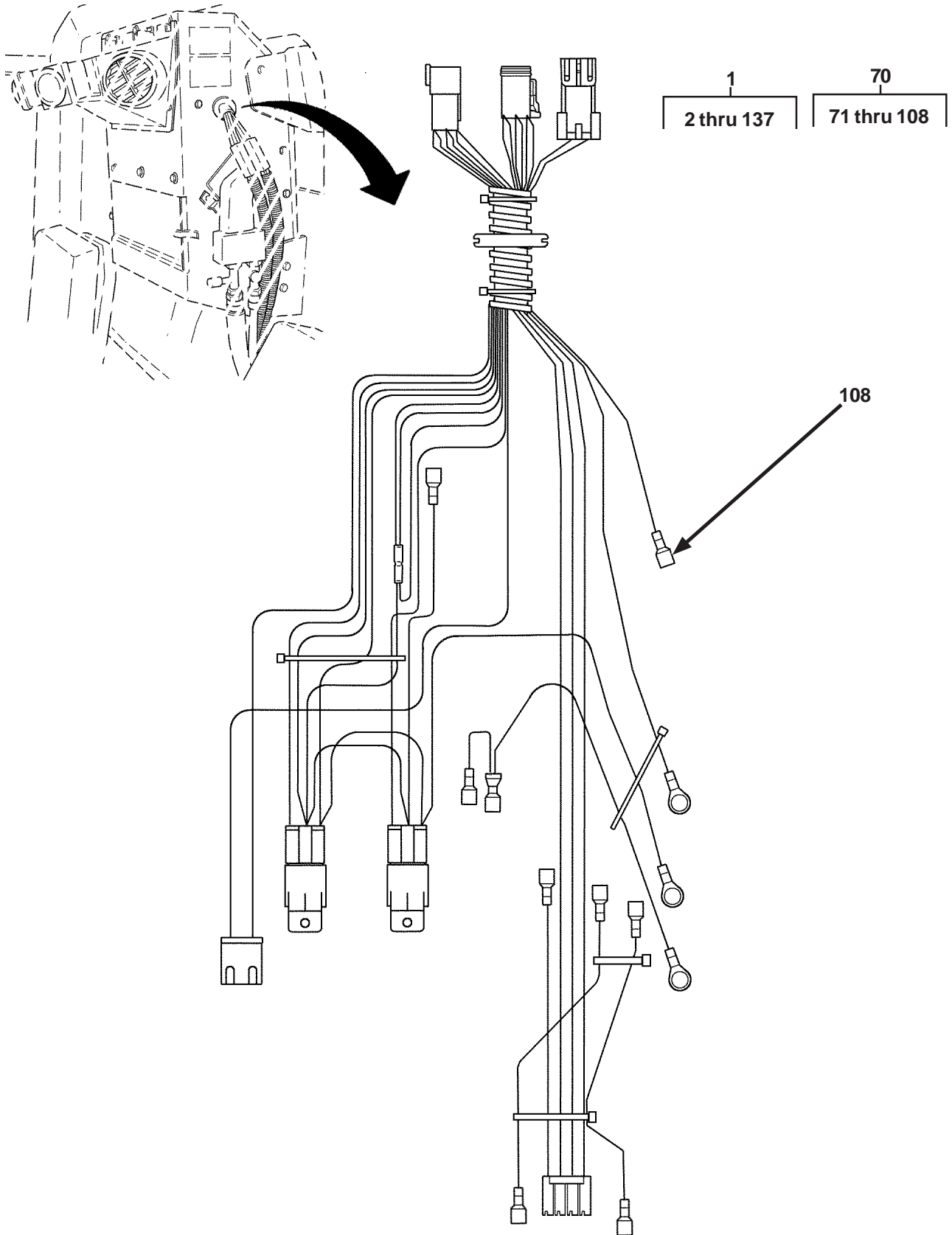


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 5 of 7)

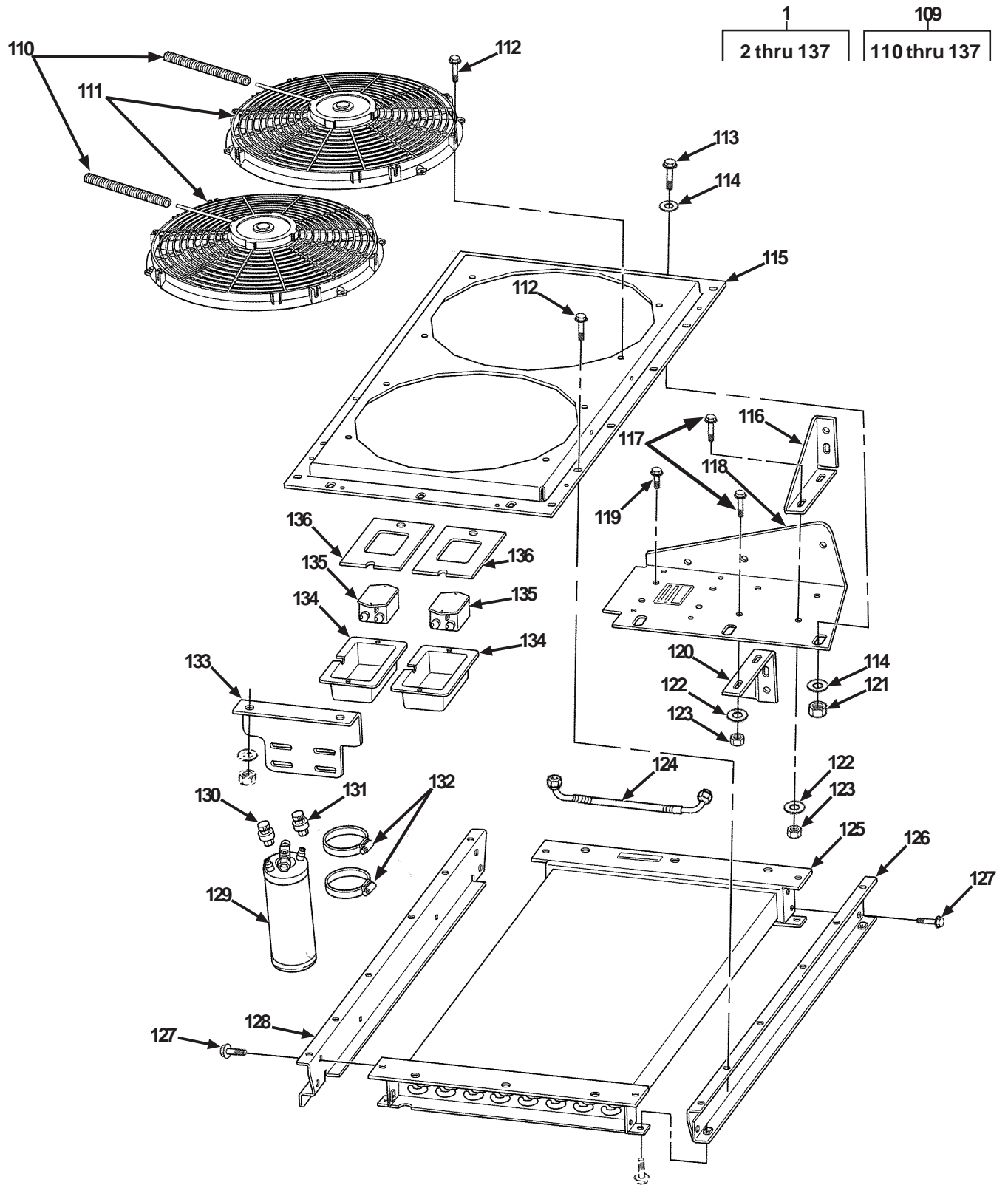


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 6 of 7)

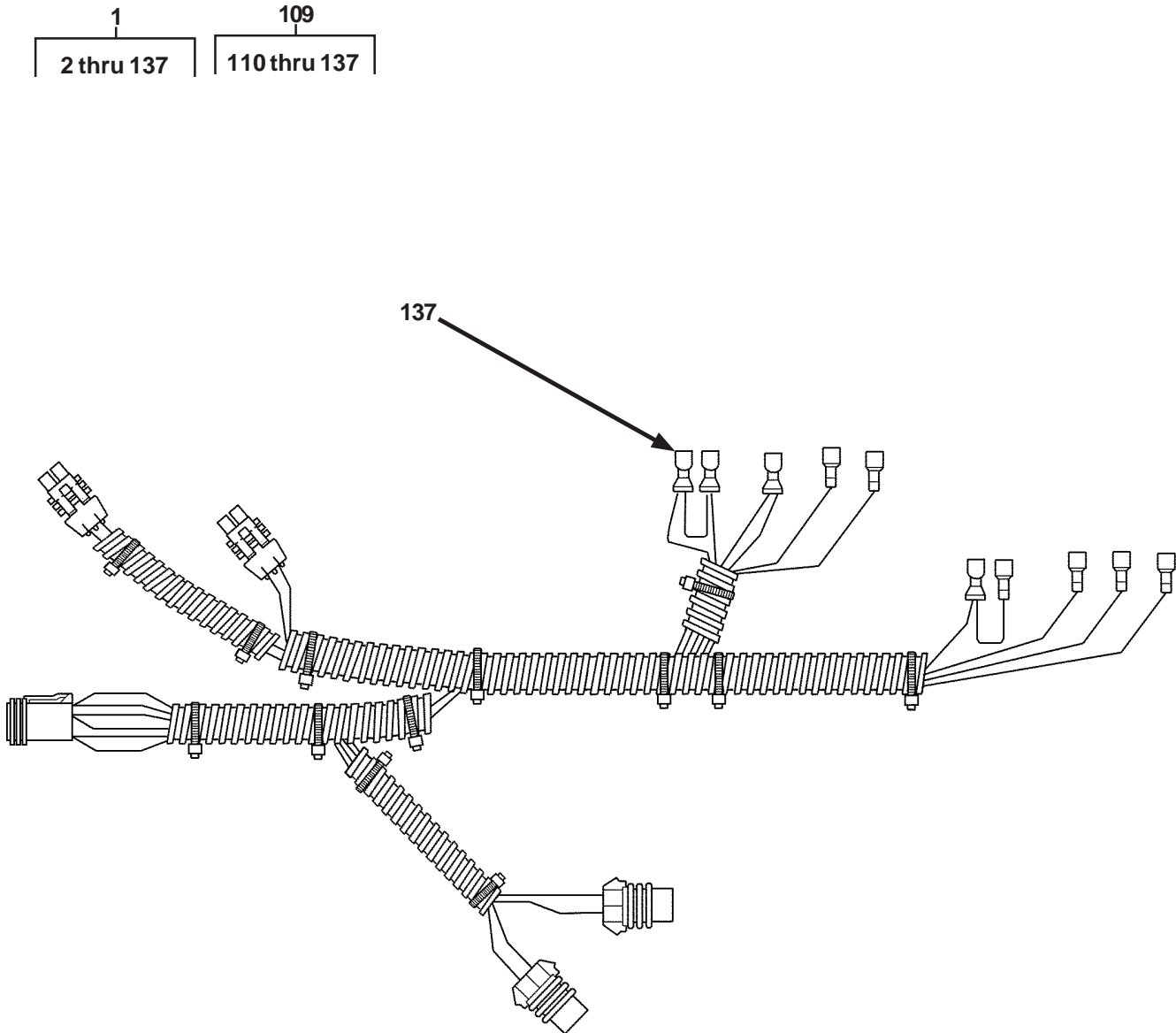


Figure 8. Air Conditioner Kit for M998 and M998A1 Four-Door with O'Gara Hess Armor (Sheet 7 of 7)



## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 8 AIR CONDITIONER KIT FOR M998 AND M998A1 FOUR-DOOR WITH O'GARA HESS ARMOR	
1	PAOOO	4130015306880	62534	RD-2-4399-0	PARTS KIT,AIR CONDITIONER . . . . . UOC:A13,H13	1
2	PAOZZ	TBD	62534	RD-4-6077-0	.EXTENSION,SHAFT . . . . . UOC:A13,H13	2
3	PAOZZ	TBD	62534	RD-4-5946-0	.BRACKET,MOUNTING . . . . . UOC:A13,H13	1
4	PAOZZ	5340015251253	62534	RD-4-5972-1P	.BRACKET,ANGLE . . . . . UOC:A13,H13	1
5	PAOZZ	5310015334006	62534	RD-5-4043	.WASHER,FLAT . . . . . UOC:A13,H13	29
6	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	.SCREW,CAP,HEXAGON HEAD . . . . . UOC:A13,H13	21
7	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	.BOLT,MACHINE . . . . . UOC:A13,H13	9
8	PAOZZ	5310015260689	62534	RD-5-11389-0	.WASHER,FLAT . . . . . UOC:A13,H13	2
9	PAOZZ	5310015232651	62534	RD-5-11392-0	.NUT,SELF-LOCKING,HEXAGON . . . . . UOC:A13,H13	9
10	PAOZZ	5310015258946	62534	RD-5-10818-0	.NUT,SELF-LOCKING,HEXAGON . . . . . UOC:A13,H13	14
11	PAOZZ	5340015259799	62534	RD-4-5952-1P	.BRACKET,ANGLE . . . . . UOC:A13,H13	1
12	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX,ELECTRICAL . . . . . UOC:A13,H13	1
13	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW,MACHINE . . . . . UOC:A13,H13	4
14	PAOZZ	TBD	62534	RD-5-6680-0	.DUCT ASSEMBLY,AIR . . . . . UOC:A13,H13	4
15	PAOZZ	5340015248857	62534	RD-2-4207-1P	.BRACKET,MOUNTING . . . . . UOC:A13,H13	1
16	PAOZZ	4730015265020	62534	RD-5-4035-52	.CLAMP,HOSE . . . . . UOC:A13,H13	4
17	PAOZZ	5340015251952	62534	RD-2-4208-1P	.BRACKET,MOUNTING . . . . . UOC:A13,H13	1
18	PAOZZ	4720015230403	62534	RD-5-3930-60P	.HOSE,NONMETALLIC 3" ID . . . . . UOC:A13,H13	2
19	PAOZZ	5340015258155	62534	RD-2-4165-1	.BRACKET,MOUNTING . . . . . UOC:A13,H13	2
20	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	.SCREW,CAP,HEXAGON . . . . . UOC:A13,H13	8
21	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR,AIR CIRCULATING . . . . . UOC:A13,H13	2
22	PAOZZ	2540015233654	62534	RD-5-6676-60	.DUCT ASSEMBLY,AIR . . . . .	2

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	5340015258661	62534	RD-2-4167-1	UOC:A13,H13 .BRACKET,MOUNTING B PILLAR TOP .....	1
24	PAOZZ	TBD	62534	RD-5-6865-0	UOC:A13,H13 .CLAMP,HOSE .....	2
25	PAOZZ	TBD	62534	RD-2-4250-0	UOC:A13,H13 .ANGLE,DUCT SUPPORT .....	1
26	PAOZZ	5331015251903	62534	RD-5-11015-0P	UOC:A13,H13 .O-RING #6 .....	2
27	PAOZZ	4730015251956	62534	RD-5-10537-0P	UOC:A13,H13 .ELBOW,TUBE #6 90° MALE .....	2
28	PAOZZ	4720015251960	62534	RD-5-10709-0P	UOC:A13,H13 .HOSE,NONMETALLIC #6 CAGE .....	4
29	PAOZZ	4720015249153	62534	RD-5-10713-0P	UOC:A13,H13 .HOSE,NONMETALLIC #6 CLIP .....	8
30	PAOZZ	4720015239231	62534	RD-5-10504- 600P	UOC:A13,H13 .HOSE,METALLIC #6 REFRIG .....	1
31	PAOZZ	5340015253875	62534	RD-2-4216-1P	UOC:A13,H13 .BRACKET,MOUNTING .....	1
32	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:A13,H13 .O-RING #8 .....	2
33	PAOZZ	4730015254521	62534	RD-5-10522-0P	UOC:A13,H13 .ELBOW,TUBE #8 90° FEMALE .....	2
34	PAOZZ	4720015254326	62534	RD-5-10710-0P	UOC:A13,H13 .HOSE,NONMETALLIC #8 CAGE .....	2
35	PAOZZ	4720015250347	62534	RD-5-10714-0P	UOC:A13,H13 .HOSE,NONMETALLIC #8 CLIP .....	4
36	PAOZZ	4730015233729	62534	RD-5-6600-0P	UOC:A13,H13 .GROMMET,NONMETALLIC .....	4
37	PAOZZ	4720015235941	62534	RD-5-10505- 600P	UOC:A13,H13 .HOSE,NONMETALLIC #8 REFRIG .....	1
38	PAOZZ	5340015249120	62534	RD-2-4214-1P	UOC:A13,H13 .BRACKET,MOUNTING .....	1
39	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:A13,H13 .O-RING #10 .....	2
40	PAOZZ	4730015247449	62534	RD-5-10541-0P	UOC:A13,H13 .ELBOW,HOSE TO BOSS 90° MALE .....	1
41	PAOZZ	4720015248886	62534	RD-5-10712-0P	UOC:A13,H13 .HOSE,NONMETALLIC #12 CAGE .....	4
42	PAOZZ	4730015249089	62534	RD-5-10716-0P	UOC:A13,H13 .CLAMP,HOSE #12 CLIP .....	8
43	PAOZZ	4730015250178	62534	RD-5-10705-0P	UOC:A13,H13 .COUPLING,TUBE .....	1
44	PAOZZ	4720015233955	62534	RD-5-10507- 600P	UOC:A13,H13 .HOSE,NONMETALLIC #12 REFRIG .....	1
45	PAOZZ	5310015259051	62534	RD-5-6260-0	UOC:A13,H13 .WASHER,FLAT 1/4 .....	2
46	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	UOC:A13,H13 .SCREW,MACHINE .....	1

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
47	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM,ADJUSTING,BELT TENSION ..... UOC:A13,H13	1
48	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER,SLEEVE ..... UOC:A13,H13	1
49	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET,MOUNTING COMPRESSOR ..... UOC:A13,H13	1
50	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER,LOCK ..... UOC:A13,H13	1
51	PAOZZ	5305015258583	62534	RD-5-6250-0- 55	.SCREW,MACHINE ..... UOC:A13,H13	1
52	PAOZZ	5305015258603	62534	RD-5-6250-0- 30	.SCREW,MACHINE ..... UOC:A13,H13	1
53	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	1
54	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER,FLAT 1/8 ..... UOC:A13,H13	1
55	PAOZZ	5305015298139	62534	RD-5-6250-0- 50	.SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	1
56	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY,GROOVE 5 ..... UOC:A13,H13	1
57	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT,V 44-5/8" ..... UOC:A13,H13	1
58	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR,REFRIGERATION 24V 2A JD ..... UOC:A13,H13	1
59	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW,TUBE TO HOSE #10 TO #12 90° FEMALE ..... UOC:A13,H13	1
60	PAOZZ	4730015299380	62534	RD-5-4400-0	.CLAMP,HOSE ..... UOC:A13,H13	2
61	PAOZZ	5310015258013	62534	RD-5-6872-0M	.NUT,SELF-LOCKING,HEXAGON HEAD ..... UOC:A13,H13	2
62	PAOZZ	5305015179281	62534	RD-5-4556-1	.SCREW.ASSEMBLED WASHER ..... UOC:A13,H13	2
63	PAOZZ	5302012528598	62534	RD-5-11433-1- 20	.SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	2
64	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG,TUBE FITTING,THREADED ..... UOC:A13,H13	2
65	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS,BRANCHED CONTROL PANEL ..... UOC:A13,H13	1
66	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP,TIEDOWN,ELECTRICAL COMPONENTS ..... UOC:A13,H13	10
67	PAOZZ	6150015253955	62534	RD-2-4163-0P	.WIRING HARNESS BATTERY ..... UOC:A13,H13	1
68	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH ..... UOC:A13,H13	1

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
69	PAOZZ	6150015251122	62534	RD-2-4244-0P	.WIRING HARNESS JUMPER ..... UOC:A13,H13	1
70	PAOOO	4120015306339	62534	RD-2-4243-0	.AIR CONDITIONER (SERVICE PARTS R-2400-1) ..... UOC:A13,H13	1
71	PAOZZ	5340015238425	62534	RD-2-4116-0	..COVER,ACCESS ..... UOC:A13,H13	1
72	PAOZZ	5325015248831	62534	RD-5-4053-0P	..GROMMET,NONMETALLIC ..... UOC:A13,H13	1
73	PAOZZ	5925015217620	62534	RD-5-11437-0P	..CIRCUIT BREAKER 30 AMP ..... UOC:A13,H13	1
74	PAOZZ	5310015252737	62534	RD-5-4133-0M	..NUT,PLAIN,HEXAGON 7/16-28 ..... UOC:A13,H13	1
75	PAOZZ	5340015232793	62534	RD-2-4122-0P	..STRAP,RETAINING ..... UOC:A13,H13	1
76	PAOZZ	5330015233722	62534	RD-2-4136-0P	..GASKET ..... UOC:A13,H13	1
77	PAOZZ	5340015233992	62534	RD-2-4128-0P	..PLATE,RETAINING,SEAL ..... UOC:A13,H13	1
78	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	..SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	14
79	PAOZZ	5305015232459	62534	RD-5-5351-1-25	..SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	4
80	PAOZZ	5340015241893	62534	RD-2-4142-0	..BRACKET,ANGLE ..... UOC:A13,H13	2
81	PAOZZ	4820015177304	62534	RD-5-11438-0P	..VALVE,EXPANSION R134a 2 TON ..... UOC:A13,H13	1
82	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 ..... UOC:A13,H13	1
83	PAOZZ	5305015179757	62534	RD-5-5743-0-40	..SCREW,ASSEMBLED WASHER ..... UOC:A13,H13	2
84	PAOZZ	5331015249812	62534	RD-5-11016-0P	..O-RING #8 ..... UOC:A13,H13	1
85	PAOZZ	5340015242263	62534	RD-5-8410-0	..COVER,ACCESS ..... UOC:A13,H13	1
86	PAOZZ	5331015247872	62534	RD-5-11017-0P	..O-RING #10 ..... UOC:A13,H13	1
87	PAOZZ	5340015178600	62534	RD-5-6239-0	..CLIP,SPRING,TENSION ..... UOC:A13,H13	2
88	PAOZZ	5320015205086	62534	RD-5-5345-0	..RIVET,BLIND ..... UOC:A13,H13	2
89	PAOZZ	5330015233964	62534	RD-2-4149-0P	..GASKET ..... UOC:A13,H13	2
90	PAOZZ	4130015217486	62534	RD-2-4132-0P	..FILTER ELEMENT,AIR CONDITIONING .... UOC:A13,H13	1
91	PAOZZ	4130015216442	62534	RD-2-4129-0P	..EVAPORATOR COIL,REFRIGERATION ..... UOC:A13,H13	1
92	PAOOO	2540015217709	62534	RD-2-4169-0P	..DUCT ASSEMBLY,AIR CONDITIONING ..... UOC:A13,H13	1

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
93	PAOZZ	2540015360012	62534	RD-5-5223-2	...DIFFUSER,AIR,HEATING AND VENTILATING ..... UOC:A13,H13	2
94	PAOZZ	4520015324463	62534	RD-2-4131-0P	...RETAINER-DIFFUSER ..... UOC:A13,H13	2
95	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	...SCREW,ASSEMBLED WASHER ..... UOC:A13,H13	1
96	PAOZZ	2540015360113	62534	RD-2-4152-0P	...DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR ..... UOC:A13,H13	1
97	PAOZZ	5310015179281	62534	RD-5-4556-1	..SCREW,ASSEMBLED WASHER ..... UOC:A13,H13	6
98	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	..SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	6
99	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	2
100	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER,ACCESS ..... UOC:A13,H13	1
101	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN,CENTRIFUGAL 24V ..... UOC:A13,H13	1
102	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY,ELECTROMAGNETIC ..... UOC:A13,H13Y	2
103	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL ..... UOC:A13,H13	1
104	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT,FLOW CONTROL ..... UOC:A13,H13	1
105	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE,BENT,METALLIC 1/8 I.D. .... UOC:A13,H13	1
106	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET,MOUNTING ..... UOC:A13,H13	1
107	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	..SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	2
108	PAOZZ	6150015214634	62534	RD-2-4153-0P	..WIRING HARNESS AIR CONDITIONER .... UOC:A13,H13	1
109	PAOOO	4130015306336	62534	RD-4-5970-0	.FAN ASSEMBLY,CONDENSER (SERVICE PARTS ONLY) ..... UOC:A13,H13	1
110	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	..INSULATION SLEEVING,ELECTRICAL .... UOC:A13,H13	2
111	PAOZZ	4140015216422	62534	RD-5-8785-3P	..FAN,CIRCULATING 24V ..... UOC:A13,H13	2
112	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	..SCREW,MACHINE ..... UOC:A13,H13	20
113	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	..BOLT,MACHINE ..... UOC:A13,H13	3
114	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT ..... UOC:A13,H13	12
115	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS ..... UOC:A13,H13	1

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
116	PAOZZ	5340015251253	62534	RD-4-5972-1P	..BRACKET,ANGLE ..... UOC:A13,H13	1
117	PAOZZ	5305015232459	62534	RD-5-5351-1- 25	..SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	4
118	PAOZZ	5340015297347	62534	RD-4-5948-0	..BRACKET,ANGLE ..... UOC:A13,H13	1
119	PAOZZ	TBD	62534	RD-5-7212-1- .375	..SCREW ..... UOC:A13,H13	4
120	PAOZZ	5340015259799	62534	RD-4-5952-1P	..BRACKET,ANGLE ..... UOC:A13,H13	1
121	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	3
122	PAOZZ	5310015334006	62534	RD-5-4043	..WASHER,FLAT ..... UOC:A13,H13	4
123	PAOZZ	5310015258946	62534	RD-5-10818-0	..NUT,SELF-LOCKING,HEXAGON ..... UOC:A13,H13	1
124	PAOZZ	4720015297878	62534	RD-4-5983-1	..HOSE ASSEMBLY,METALLIC #6 90° FEMALE ..... UOC:A13,H13	1
125	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGATION ..... UOC:A13,H13	1
126	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:A13,H13	1
127	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	..SCREW,ASSEMBLED WASHER ..... UOC:A13,H13	8
128	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:A13,H13	1
129	PAOZZ	4130015215745	62534	RD-5-11435-0P	..RECEIVER,LIQUID REFRIGERANT ..... UOC:A13,H13	1
130	PAOZZ	5930015272166	62534	RD-5-8218-0	..SWITCH,PRESSURE ..... UOC:A13,H13	1
131	PAOZZ	5930015247887	62534	RD-5-11064-0P	..SWITCH,PRESSURE ..... UOC:A13,H13	1
132	PAOZZ	4730015265020	62534	RD-5-4035-52	..CLAMP,HOSE ..... UOC:A13,H13	2
133	PAOZZ	5340015248858	62534	RD-4-5961-1P	..BRACKET,MOUNTING ..... UOC:A13,H13	1
134	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER,ACCESS ..... UOC:A13,H13	2
135	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL ..... UOC:A13,H13	2
136	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET ..... UOC:A13,H13	1
137	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS,BRANCHED CONDENSER ..... UOC:A13,H13	1

END OF FIGURE



1  
2 thru 130

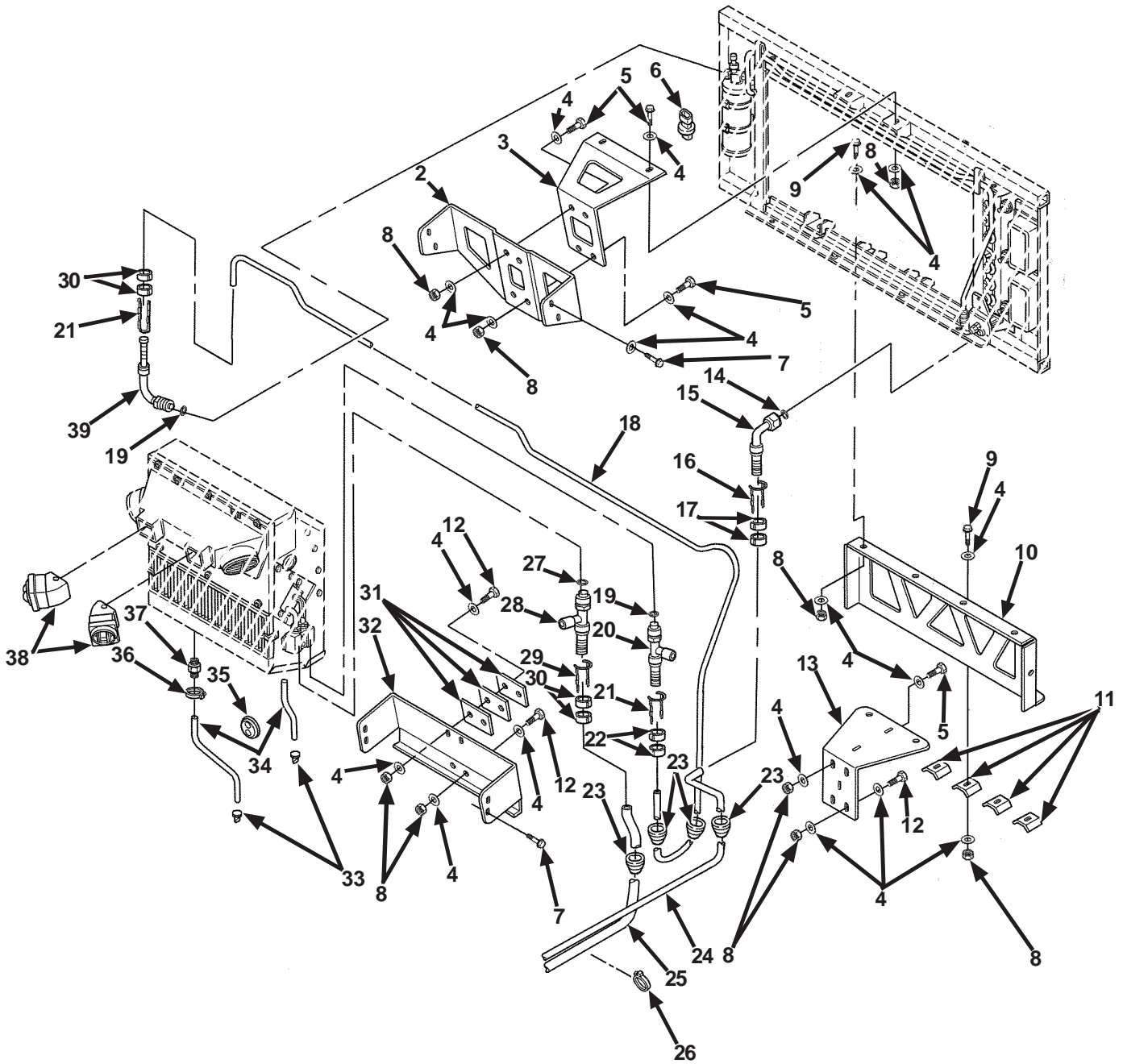


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O'Gara Hess Armor (Sheet 1 of 7)



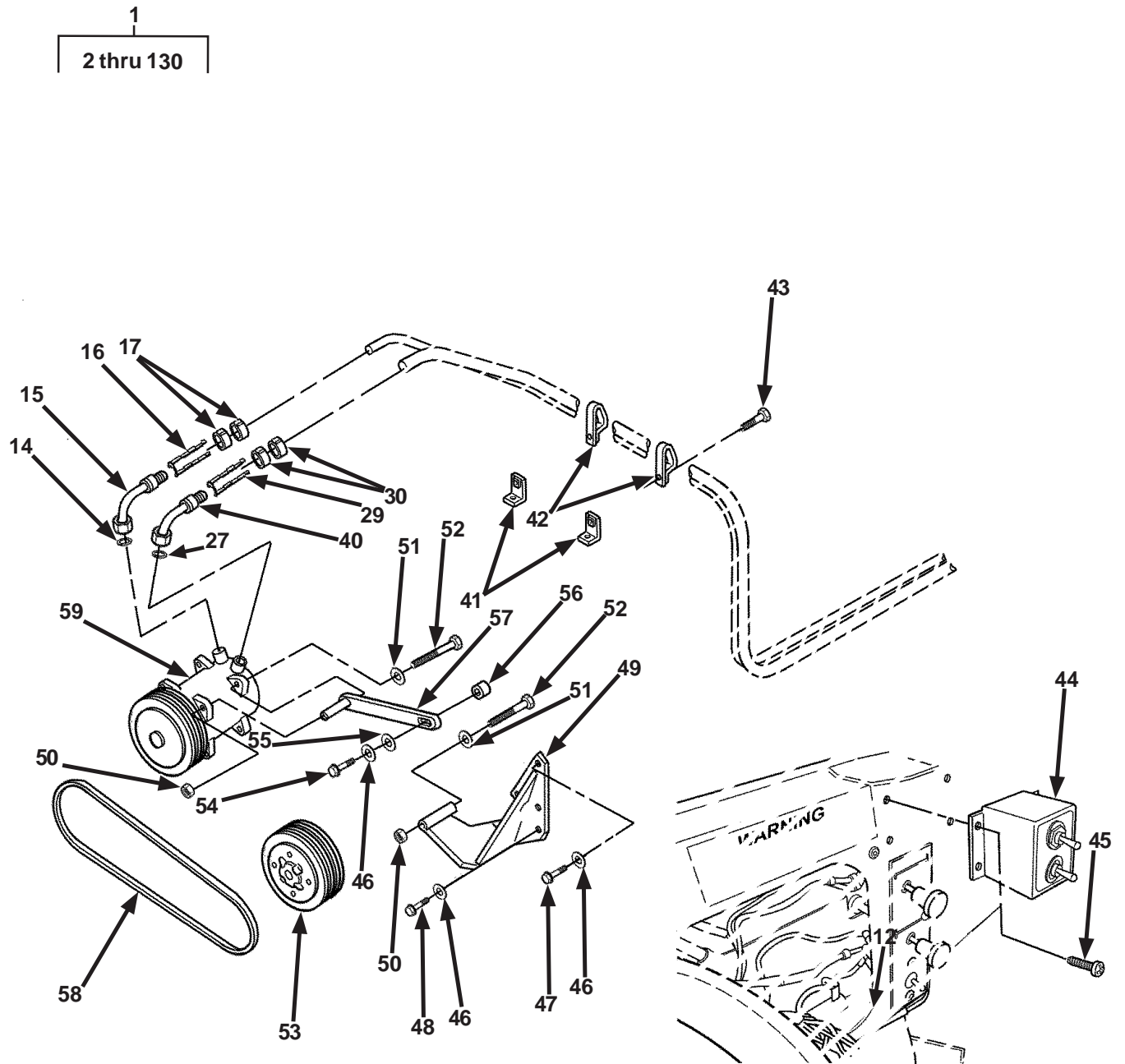


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O'Gara Hess Armor (Sheet 2 of 7)

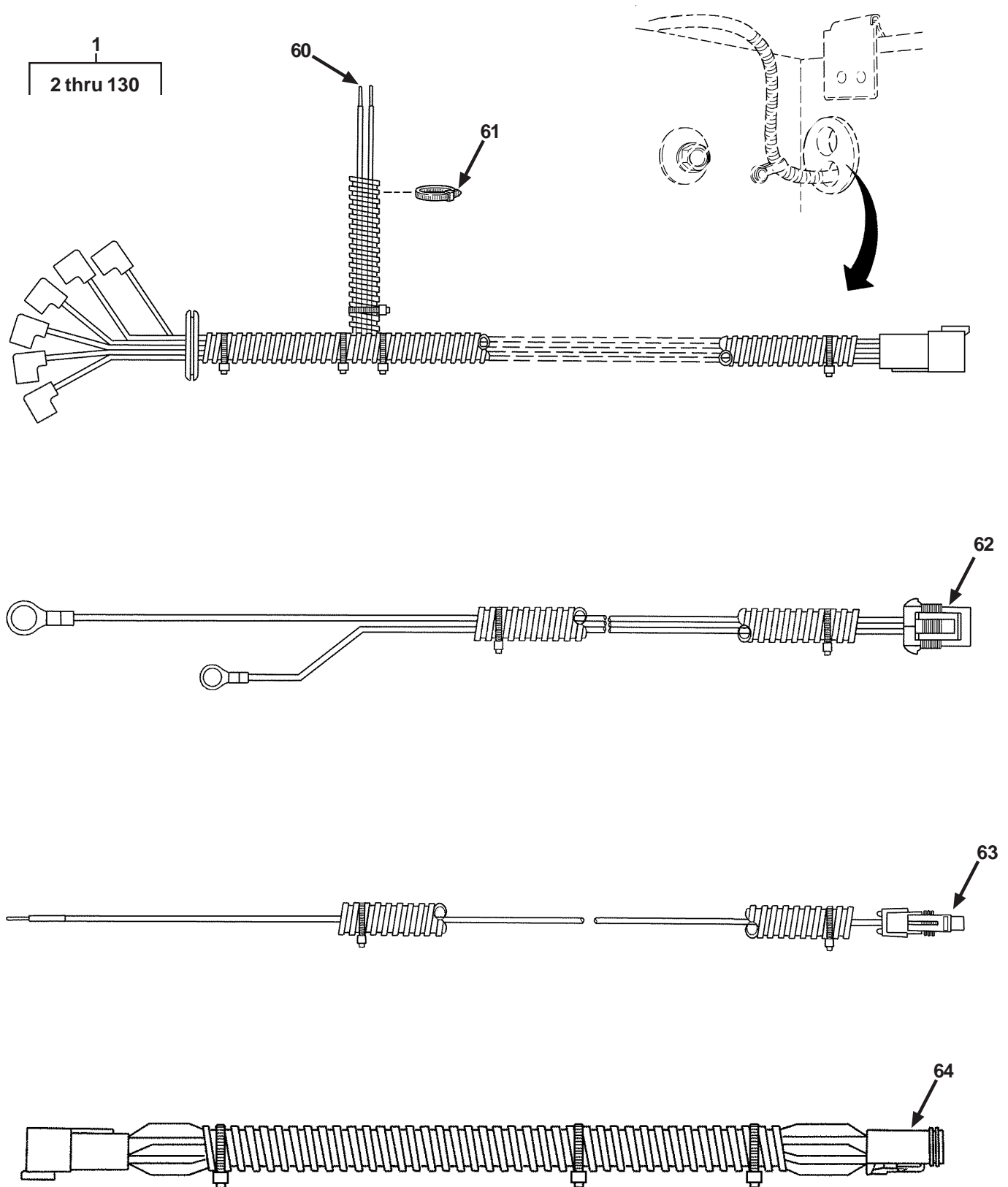


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O’Gara Hess Armor (Sheet 3 of 7)

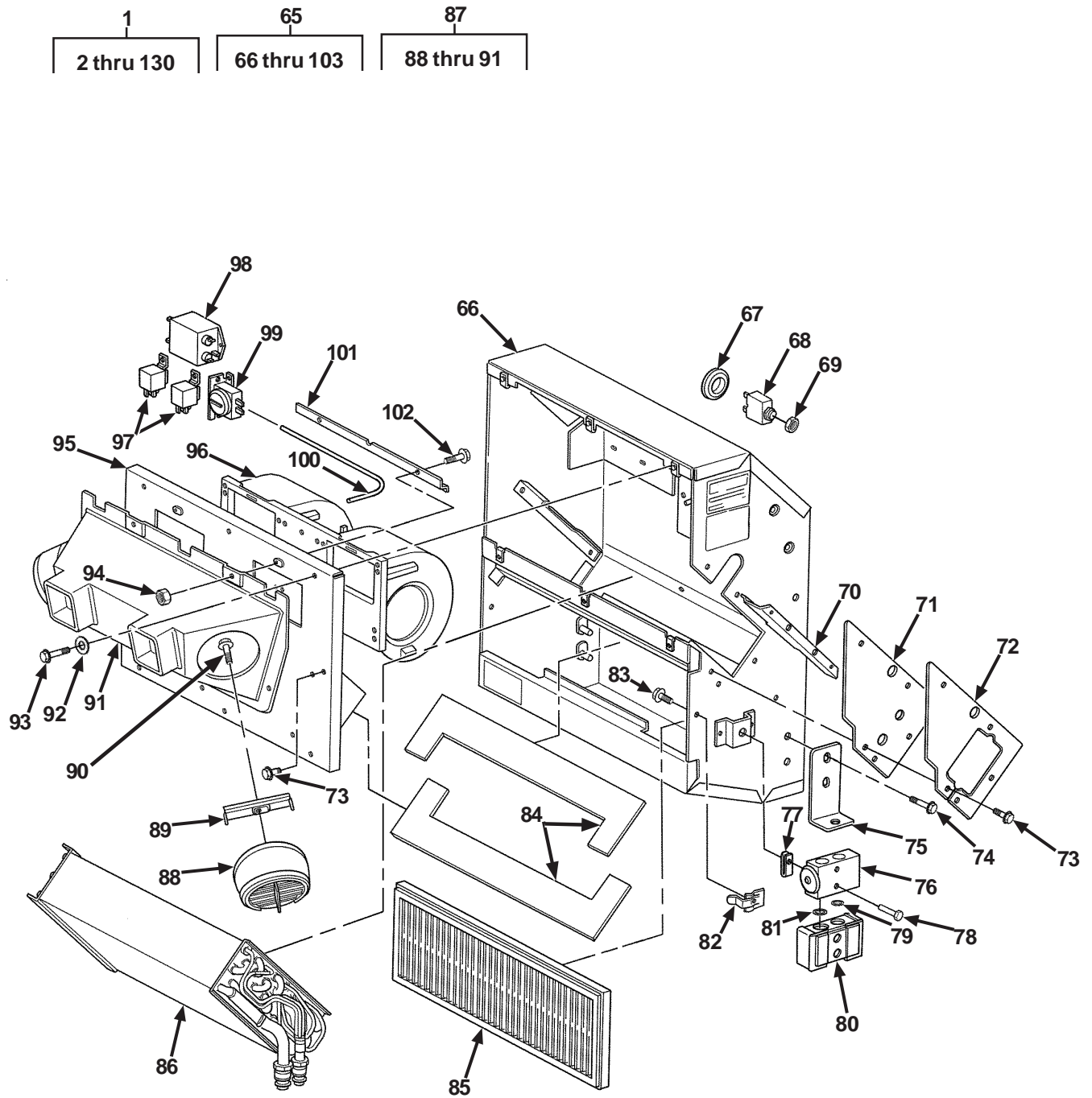


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O'Gara Hess Armor (Sheet 4 of 7)

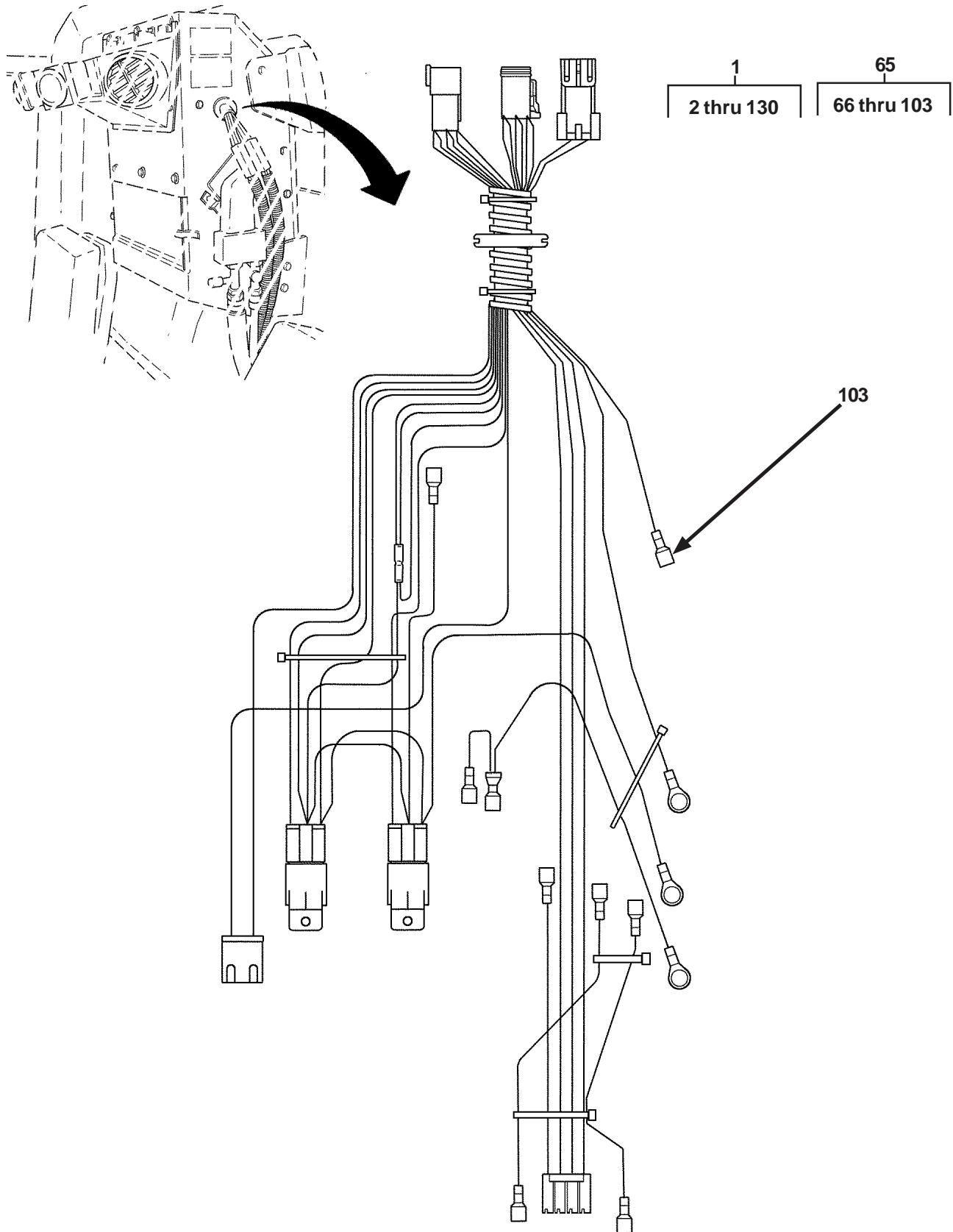


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O’Gara Hess Armor (Sheet 5 of 7)

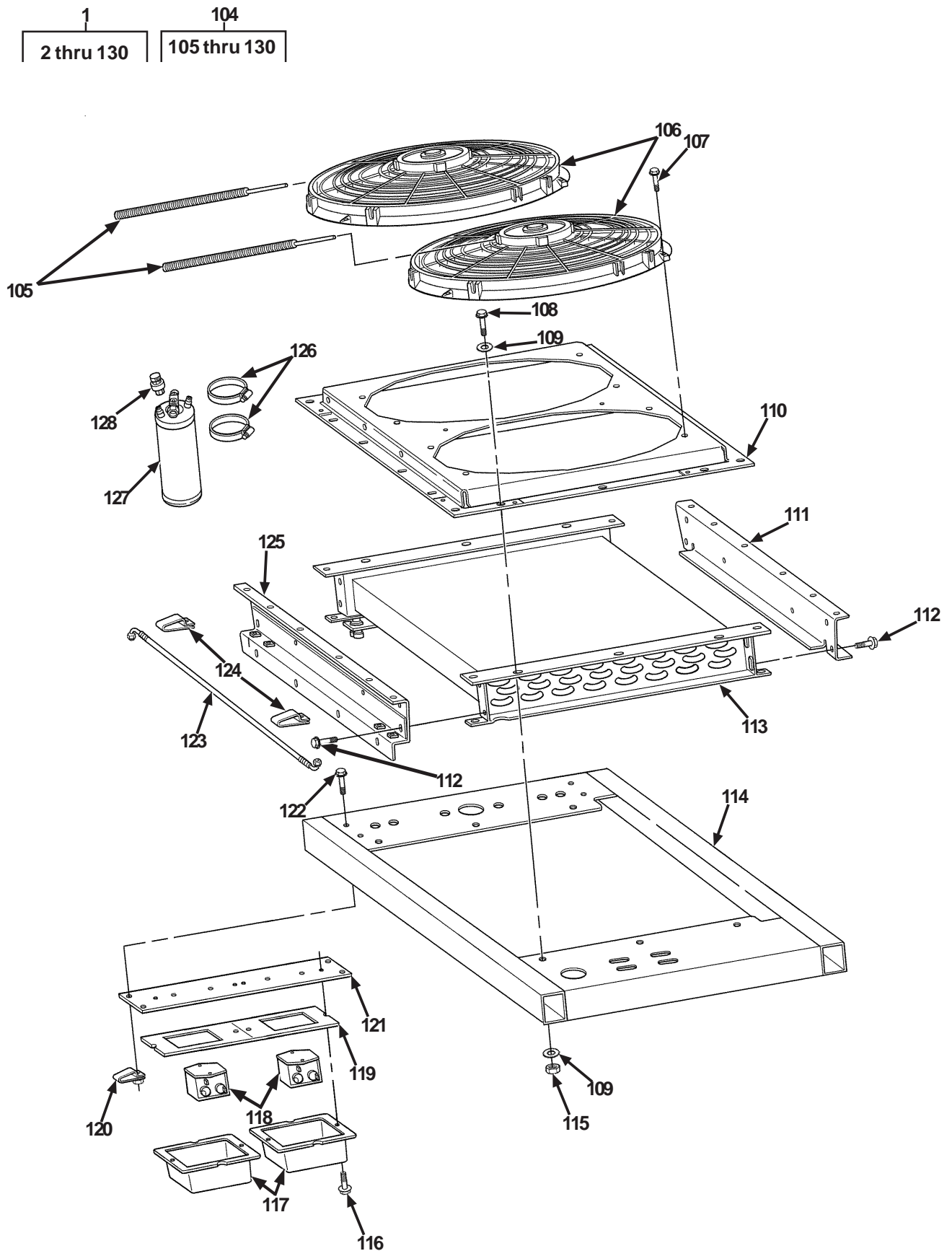


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O'Gara Hess Armor (Sheet 6 of 7)

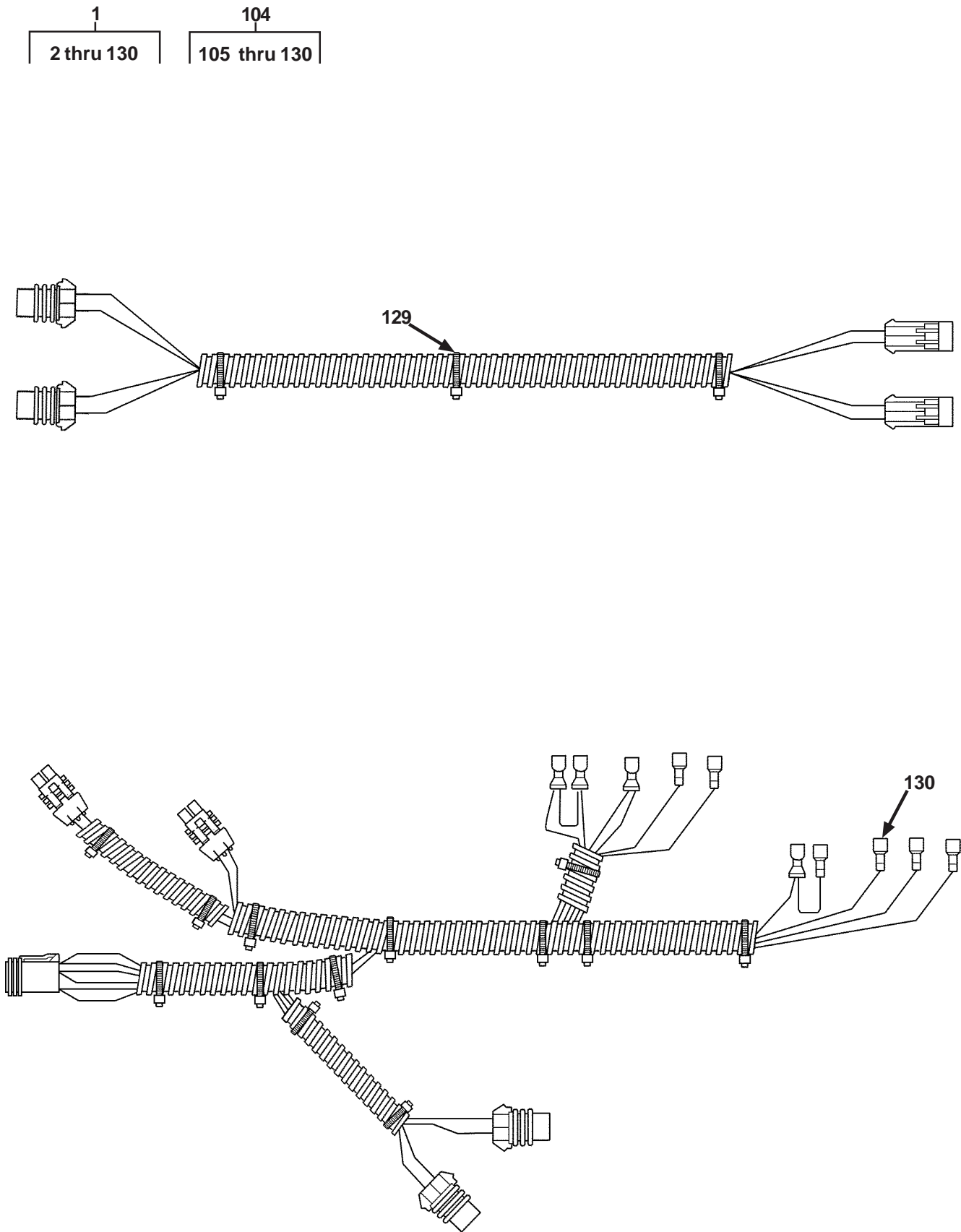


Figure 9. Air Conditioner Kit for M998 and M998A1 Two-Door with O’Gara Hess Armor (Sheet 7 of 7)

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 9 AIR CONDITIONER KIT FOR M998 AND M998A1 TWO-DOOR WITH O'GARA HESS ARMOR	
1	PAOOO	4130015311190	62534	RD-2-4448-0P	PARTS KIT,AIR CONDITIONER .....	1
					UOC:A13,H13	
2	PAOZZ	5340015298292	62534	RD-2-4427-0	.BRACKET,MOUNTING .....	1
					UOC:A13,H13	
3	PAOZZ	5340015297702	62534	RD-4-6065-0	.BRACKET,MOUNTING .....	1
					UOC:A13,H13	
4	PAOZZ	TBD	62534	RD-5-11682-0	.WASHER .....	46
					UOC:A13,H13	
5	PAOZZ	TBD	62534	RD-5-11676-0	.BOLT .....	8
					UOC:A13,H13	
6	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE .....	1
					UOC:A13,H13	
7	PAOZZ	5305015232459	62534	RD-5-5351-1-25	.SCREW,CAP,HEXAGON HEAD .....	8
					UOC:A13,H13	
8	PAOZZ	TBD	62534	RD-5-11678-0	.NUT .....	22
					UOC:A13,H13	
9	PAOZZ	TBD	62534	RD-5-11676-0	.BOLT .....	8
					UOC:A13,H13	
10	PAOZZ	5340015299064	62534	RD-4-6075-0	.BRACKET,MOUNTING .....	1
					UOC:A13,H13	
11	PAOZZ	TBD	62534	RD-4-6073-0	.BACKING PLATE BOTTOM CONDENSER SUPPORT .....	4
					UOC:A13,H13	
12	PAOZZ	TBD	62534	RD-5-11676-0	.BOLT .....	6
					UOC:A13,H13	
13	PAOZZ	5340015295529	62534	RD-4-6081-0	.BRACKET,MOUNTING .....	1
					UOC:A13,H13	
14	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 .....	2
					UOC:A13,H13	
15	PAOZZ	4730015254521	62534	RD-5-10522-0P	.ELBOW,TUBE #8 90° FEMALE .....	2
					UOC:A13,H13	
16	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE .....	2
					UOC:A13,H13	
17	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP .....	4
					UOC:A13,H13	
18	PAOZZ	4720015239231	62534	RD-5-10504- 600P	.HOSE,METALLIC #6 REFRIG .....	1
					UOC:A13,H13	
19	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 .....	2
					UOC:A13,H13	
20	PAOZZ	4730015298151	62534	RD-5-11672-0	.ADAPTER,STRAIGHT #6 .....	1
					UOC:A13,H13	
21	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE .....	2
					UOC:A13,H13	
22	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE,NONMETALLIC #6 CLIP .....	4
					UOC:A13,H13	
23	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET,NONMETALLIC .....	4
					UOC:A13,H13	

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
24	PAOZZ	4720015235941	62534	RD-5-10505-600P	.HOSE, NONMETALLIC #8 REFRIG UOC:A13, H13	1
25	PAOZZ	4720015233955	62534	RD-5-10507-600P	.HOSE, NONMETALLIC #12 REFRIG UOC:A13, H13	1
26	PAOZZ	3990015234851	62534	RD-5-6326-0P	.TIE DOWN, CARGO, VEHICLE UOC:A13, H13	1
27	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 UOC:A13, H13	2
28	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER, PIPE #10/#12 90° MALE UOC:A13, H13	1
29	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE, NONMETALLIC #12 CAGE UOC:A13, H13	2
30	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP, HOSE #12 CLIP UOC:A13, H13	4
31	PAOZZ	TBD	62534	RD-2-4429-0	.BACKING PLATE BOTTOM BRACKET UOC:A13, H13	3
32	PAOZZ	5340015298143	62534	RD-2-4428-0	.BRACKET, MOUNTING UOC:A13, H13	1
33	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG, TUBE FITTING, THREADED UOC:A13, H13	2
34	PAOZZ	TBD	62534	RD-5-6532-13	.HOSE, DRAIN UOC:A13, H13	2
35	PAOZZ	5325015299543	62534	RD-5-3861-0	.GROMMET, NONMETALLIC UOC:A13, H13	1
36	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP UOC:A13, H13	2
37	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE UOC:A13, H13	2
38	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR, AIR CIRCULATING UOC:A13, H13	2
39	PAOZZ	4730015251956	62534	RD-5-10537-0P	.ELBOW, TUBE #6 90° MALE UOC:A13, H13	1
40	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW, TUBE TO HOSE #10 to #12 90° FEMALE UOC:A13, H13	1
41	PAOZZ	5340015299047	62534	RD-3-11866-1	.BRACKET, MOUNTING UOC:A13, H13	2
42	PAOZZ	4730015299380	62534	RD-5-4400-0	.CLAMP, HOSE UOC:A13, H13	2
43	PAOZZ	5305015298296	62534	RD-5-8222-1-22	.SCREW, CAP, HEXAGON HEAD UOC:A13, H13	2
44	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX, ELECTRICAL UOC:A13, H13	1
45	PAOZZ	5305015249553	62534	RD-5-6675-0-1.000	.SCREW, MACHINE UOC:A13, H13	4
46	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER, LOCK UOC:A13, H13	4
47	PAOZZ	5305015258583	62534	RD-5-6250-0-55	.SCREW, MACHINE UOC:A13, H13	2



## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
48	PAOZZ	5305015258603	62534	RD-5-6250-0-30	.SCREW,MACHINE . . . . . UOC:A13,H13	1
49	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET,MOUNTING COMPRESSOR . . . . . UOC:A13,H13	1
50	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT,SELF-LOCKING,HEXAGON . . . . . UOC:A13,H13	2
51	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER,FLAT 1/4 . . . . . UOC:A13,H13	2
52	PAOZZ	5305015260983	62534	RD-5-6141-0-130	.SCREW,MACHINE . . . . . UOC:A13,H13	1
53	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY,GROOVE 5 . . . . . UOC:A13,H13	1
54	PAOZZ	5305015298139	62534	RD-5-6250-0-50	.SCREW,CAP,HEXAGON HEAD . . . . . UOC:A13,H13	1
55	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER,FLAT 1/8 . . . . . UOC:A13,H13	1
56	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER,SLEEVE . . . . . UOC:A13,H13	1
57	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM,ADJUSTING,BELT TENSION . . . . . UOC:A13,H13	1
58	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT,V 44-5/8" . . . . . UOC:A13,H13	1
59	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR,REFRIGERATION 24V 2A JD . . . . . UOC:A13,H13	1
60	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS,BRANCHED CONTROL PANEL . . . . . UOC:A13,H13	1
61	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP,TIEDOWN,ELECTRICAL COMPONENTS . . . . . UOC:A13,H13	10
62	PAOZZ	6150015253955	62534	RD-2-4163-0P	.WIRING HARNESS BATTERY . . . . . UOC:A13,H13	1
63	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH . . . . . UOC:A13,H13	1
64	PAOZZ	6150015251122	62534	RD-2-4244-0P	.WIRING HARNESS JUMPER . . . . . UOC:A13,H13	1
65	PAOOO	4120015306339	62534	RD-2-4243-0	.AIR CONDITIONER (SERVICE PARTS R-2400-1) . . . . . UOC:A13,H13	1
66	PAOZZ	5340015238425	62534	RD-2-4116-0	.COVER,ACCESS . . . . . UOC:A13,H13	1
67	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET,NONMETALLIC . . . . . UOC:A13,H13	1
68	PAOZZ	5925015217620	62534	RD-5-11437-0P	.CIRCUIT BREAKER 30 AMP . . . . . UOC:A13,H13	1
69	PAOZZ	5310015252737	62534	RD-5-4133-0M	.NUT,PLAIN,HEXAGON 7/16-28 . . . . . UOC:A13,H13	1
70	PAOZZ	5340015232793	62534	RD-2-4122-0P	.STRAP,RETAINING . . . . .	1

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
71	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:A13,H13 ..GASKET .....	1
72	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:A13,H13 ..PLATE,RETAINING,SEAL .....	1
73	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	14
74	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	4
75	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:A13,H13 ..BRACKET,ANGLE .....	2
76	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:A13,H13 ..VALVE,EXPANSION R134a 2 TON .....	1
77	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:A13,H13 ..NUT,CLIP M6 .....	1
78	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:A13,H13 ..SCREW,ASSEMBLED WASHER .....	2
79	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:A13,H13 ..O-RING #8 .....	1
80	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:A13,H13 ..COVER,ACCESS .....	1
81	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:A13,H13 ..O-RING #10 .....	1
82	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:A13,H13 ..CLIP,SPRING,TENSION .....	2
83	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:A13,H13 ..RIVET,BLIND .....	2
84	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:A13,H13 ..GASKET .....	2
85	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:A13,H13 ..FILTER ELEMENT,AIR CONDITIONING ....	1
86	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:A13,H13 ..EVAPORATOR COIL,REFRIGERATION .....	1
87	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:A13,H13 ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
88	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:A13,H13 ...DIFFUSER,AIR,HEATING AND VENTILATING .....	2
89	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:A13,H13 ...RETAINER-DIFFUSER .....	2
90	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:A13,H13 ...SCREW,ASSEMBLED WASHER .....	1
91	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:A13,H13 ...DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1
92	PAOZZ	5310015179281	62534	RD-5-4556-1	UOC:A13,H13 ..SCREW,ASSEMBLED WASHER .....	6
93	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	UOC:A13,H13 ..SCREW,CAP,HEXAGON HEAD .....	6

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
94	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT, SELF-LOCKING, HEXAGON UOC: A13, H13	2
95	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER, ACCESS UOC: A13, H13	1
96	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN, CENTRIFUGAL 24V UOC: A13, H13	1
97	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY, ELECTROMAGNETIC UOC: A13, H13Y	2
98	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY, ELECTRICAL UOC: A13, H13	1
99	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT, FLOW CONTROL UOC: A13, H13	1
100	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE, BENT, METALLIC 1/8 I.D. UOC: A13, H13	1
101	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET, MOUNTING UOC: A13, H13	1
102	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	..SCREW, CAP, HEXAGON HEAD UOC: A13, H13	2
103	PAOZZ	6150015214634	62534	RD-2-4153-0P	..WIRING HARNESS AIR CONDITIONER UOC: A13, H13	1
104	PAOOO	4130015306117	62534	RD-4-6082-0	..CONDENSER, FRAME ASSEMBLY UOC: A13, H13	1
105	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	..INSULATION SLEEVING, ELECTRICAL UOC: A13, H13	2
106	PAOZZ	4140015216422	62534	RD-5-8785-3P	..FAN, CIRCULATING 24V UOC: A13, H13	2
107	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	..SCREW, MACHINE UOC: A13, H13	8
108	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	..BOLT, MACHINE UOC: A13, H13	6
109	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER, FLAT UOC: A13, H13	12
110	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER, ACCESS UOC: A13, H13	1
111	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME, STRUCTURAL, VEHICULAR UOC: A13, H13	1
112	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	..SCREW, ASSEMBLED WASHER UOC: A13, H13	8
113	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL, REFRIGATION UOC: A13, H13	1
114	PAOZZ	2510015299425	62534	RD-46068-0	..FRAME SECTION, STRUCTURAL, VEHICULAR UOC: A13, H13	1
115	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT, SELF-LOCKING, HEXAGON UOC: A13, H13	6
116	PAOZZ	TBD	62534	RD-5-7212-1- .375	..SCREW UOC: A13, H13	4
117	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER, ACCESS UOC: A13, H13	2

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
118	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL ..... UOC:A13,H13	2
119	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET ..... UOC:A13,H13	1
120	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 ..... UOC:A13,H13	4
121	PAOZZ	5340015251931	62534	RD-4-5968-0P	..PLATE,MOUNTING ..... UOC:A13,H13	1
122	PAOZZ	5305015298296	62534	RD-5-8222-1- 22	..SCREW,CAP,HEXAGON HEAD ..... UOC:A13,H13	4
123	PAOZZ	4720015297878	62534	RD-4-5983-1	..HOSE ASSEMBLY,METALLIC #6 90° FEMALE ..... UOC:A13,H13	1
124	PAOZZ	4730015299380	62534	RD-5-4400-0	..CLAMP HOSE ..... UOC:A13,H13	2
125	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:A13,H13	1
126	PAOZZ	4730015265020	62534	RD-5-4035-52	..CLAMP,HOSE ..... UOC:A13,H13	2
127	PAOZZ	4130015215745	62534	RD-5-11435-0P	..RECEIVER,LIQUID REFRIGERANT ..... UOC:A13,H13	1
128	PAOZZ	5930015247887	62534	RD-5-11064-0P	..SWITCH,PRESSURE ..... UOC:A13,H13	1
129	PAOZZ	3040015298665	62534	RD-4-6076-0	..EXTENSION,SHAFT WIRING HARNESS .... UOC:A13,H13	1
130	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS,BRANCHED CONDENSER ..... UOC:A13,H13	1

END OF FIGURE



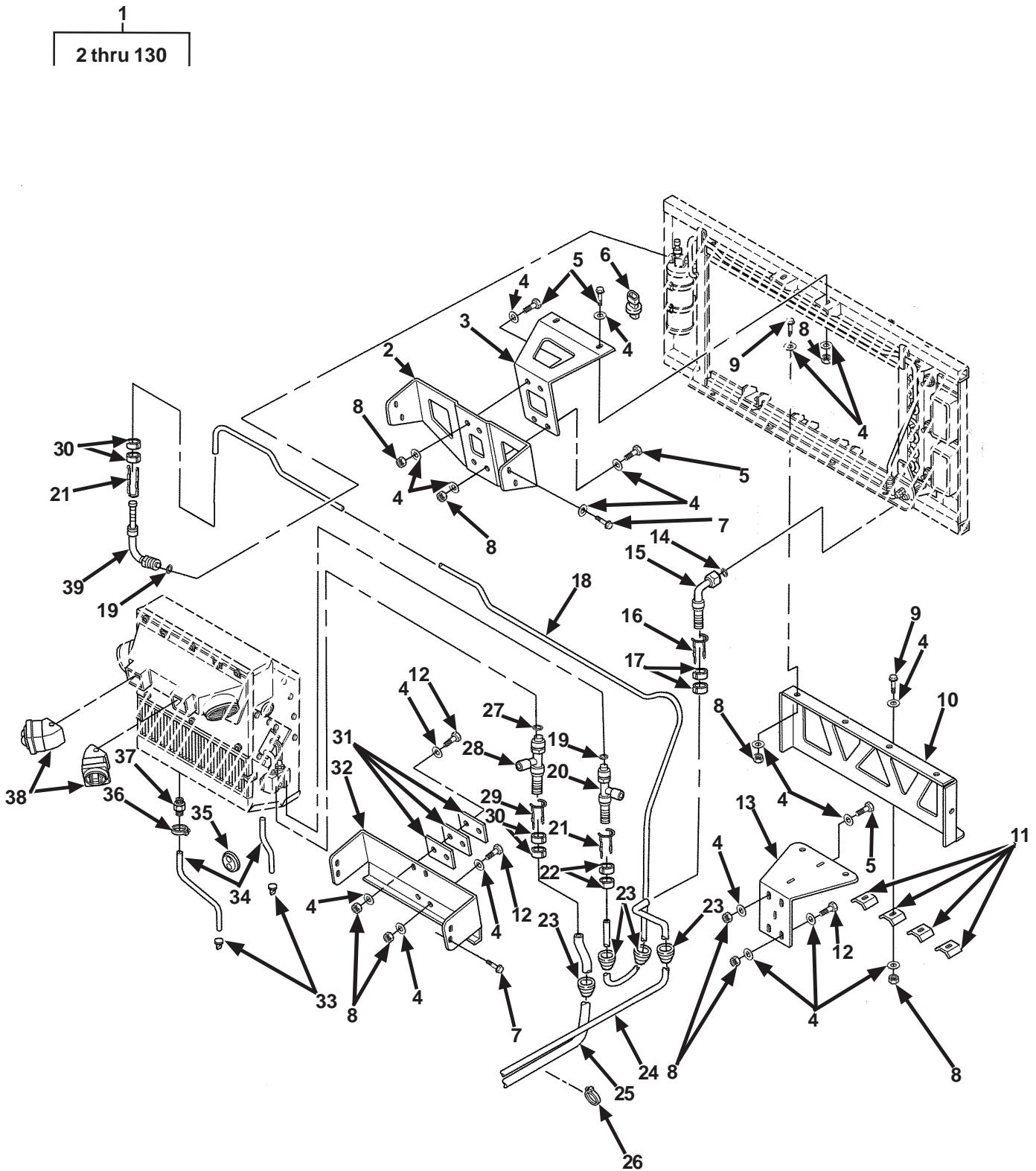


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 1 of 7)

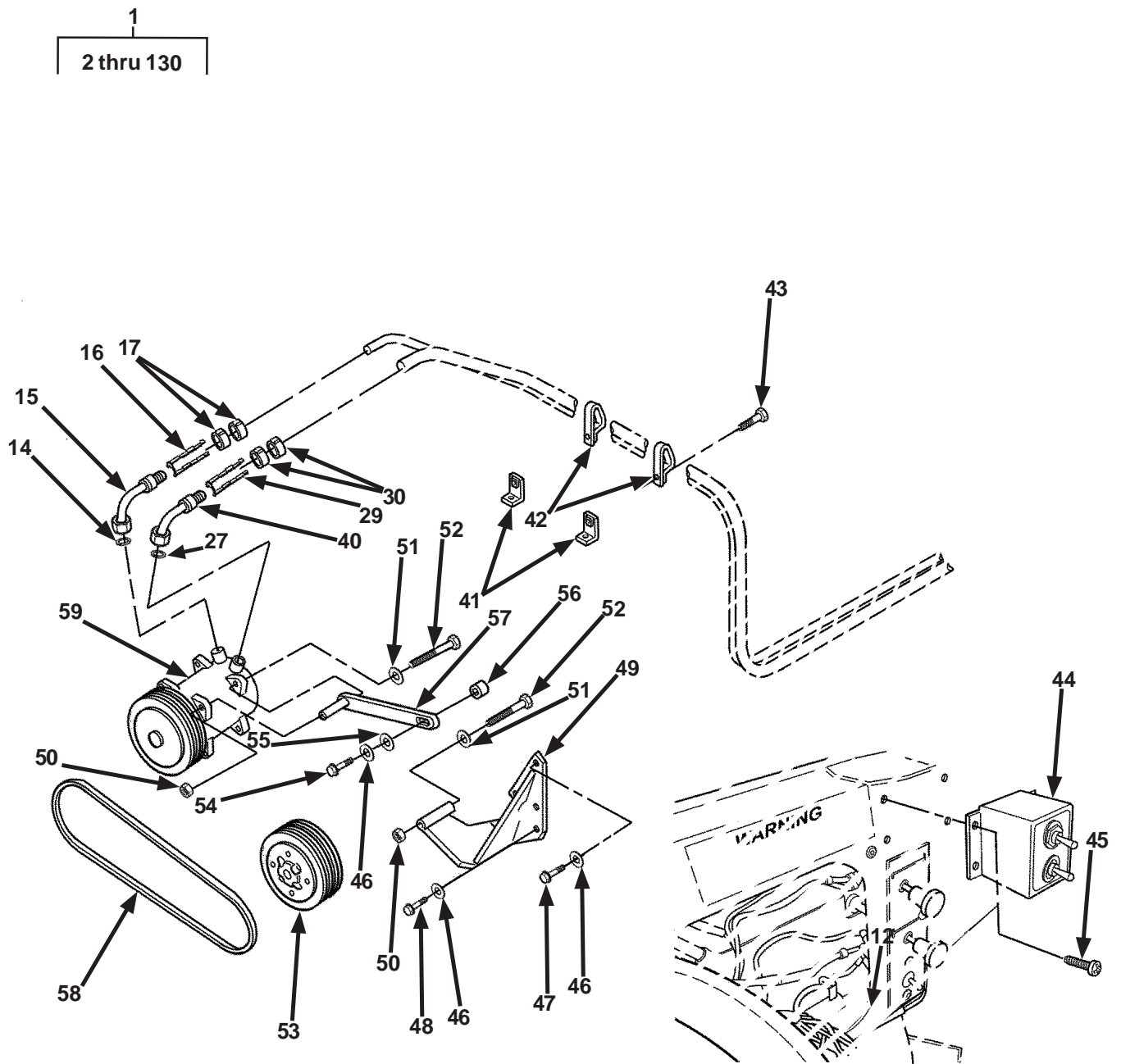


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 2 of 7)

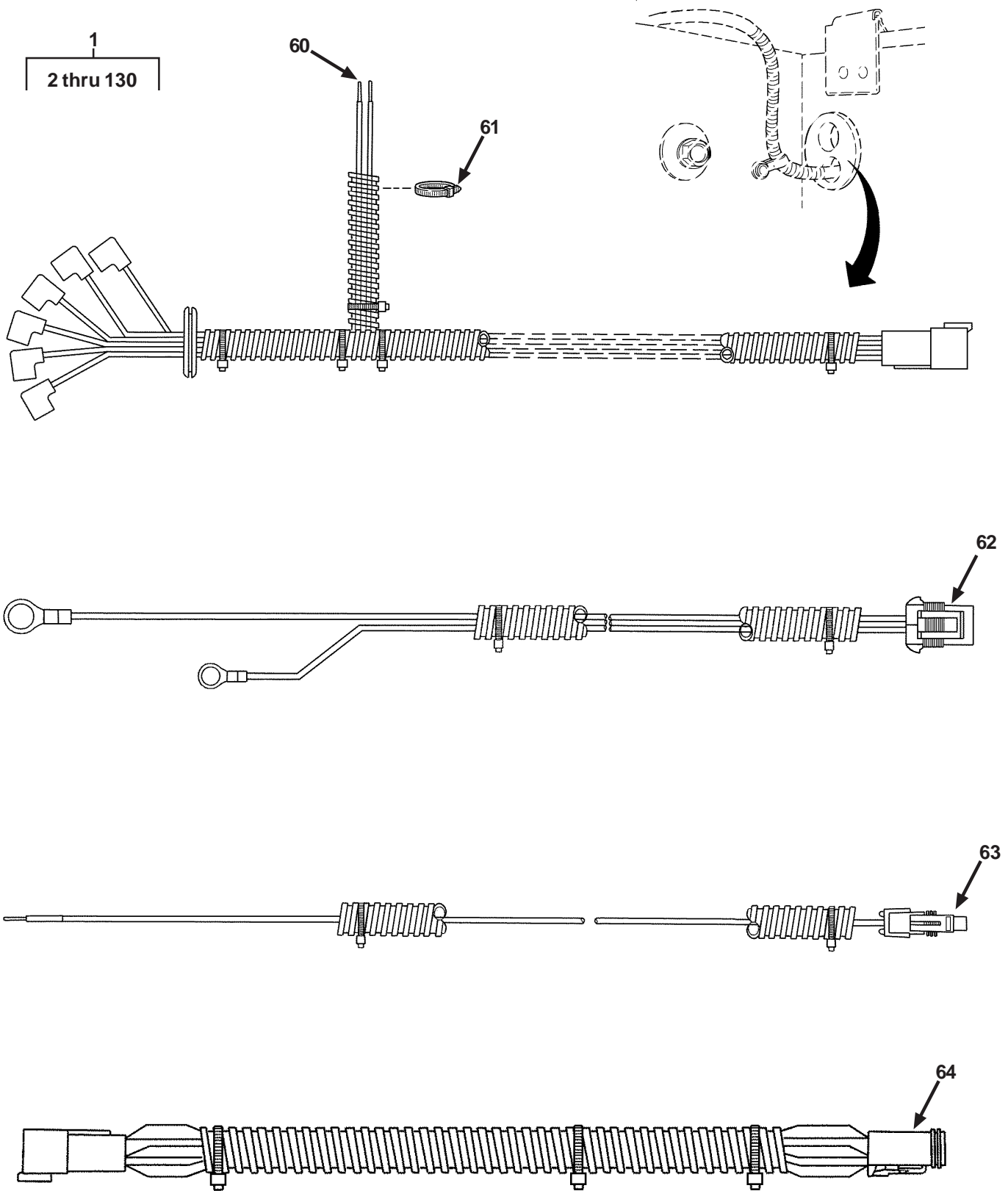


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 3 of 7)



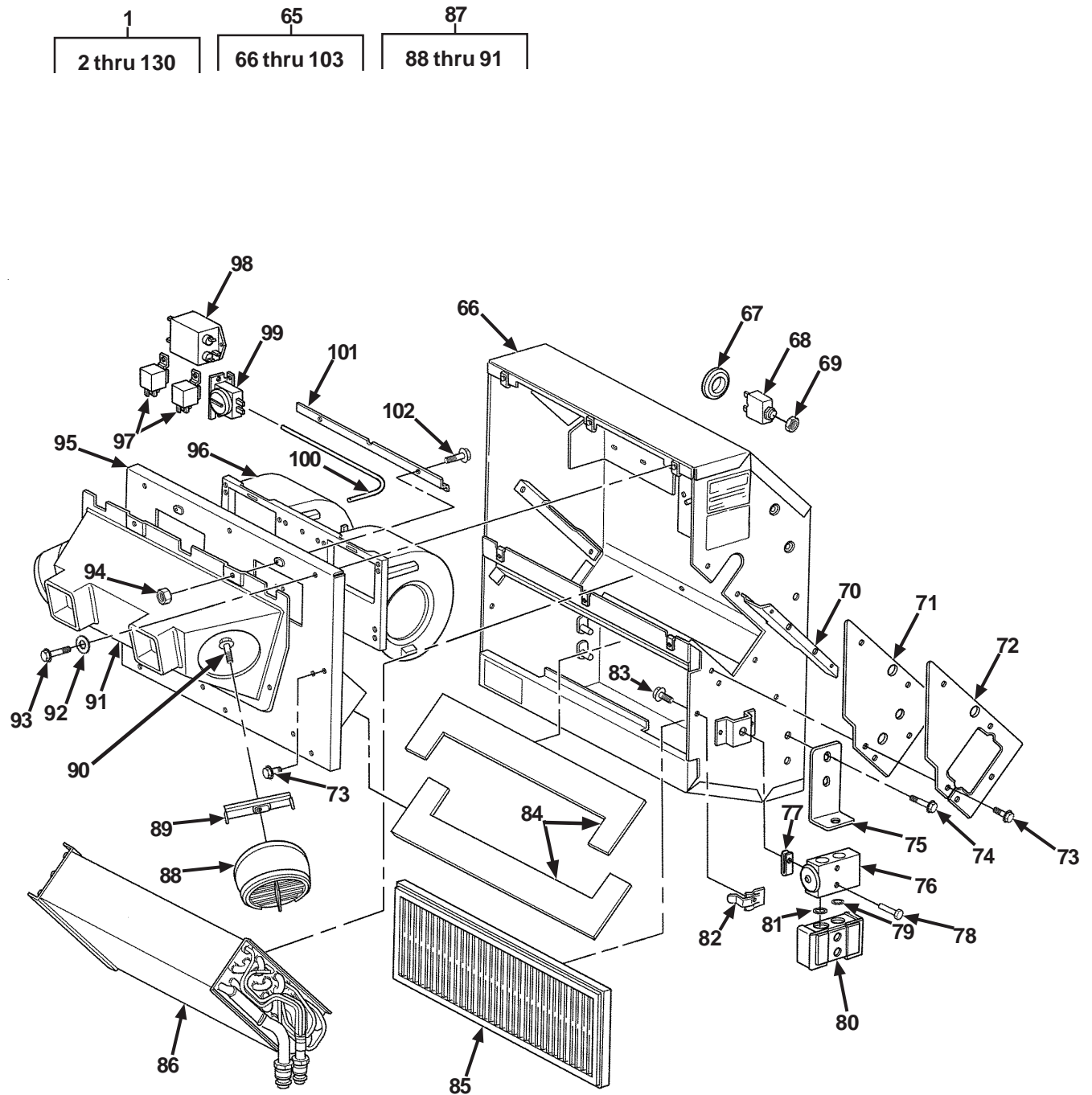


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 4 of 7)

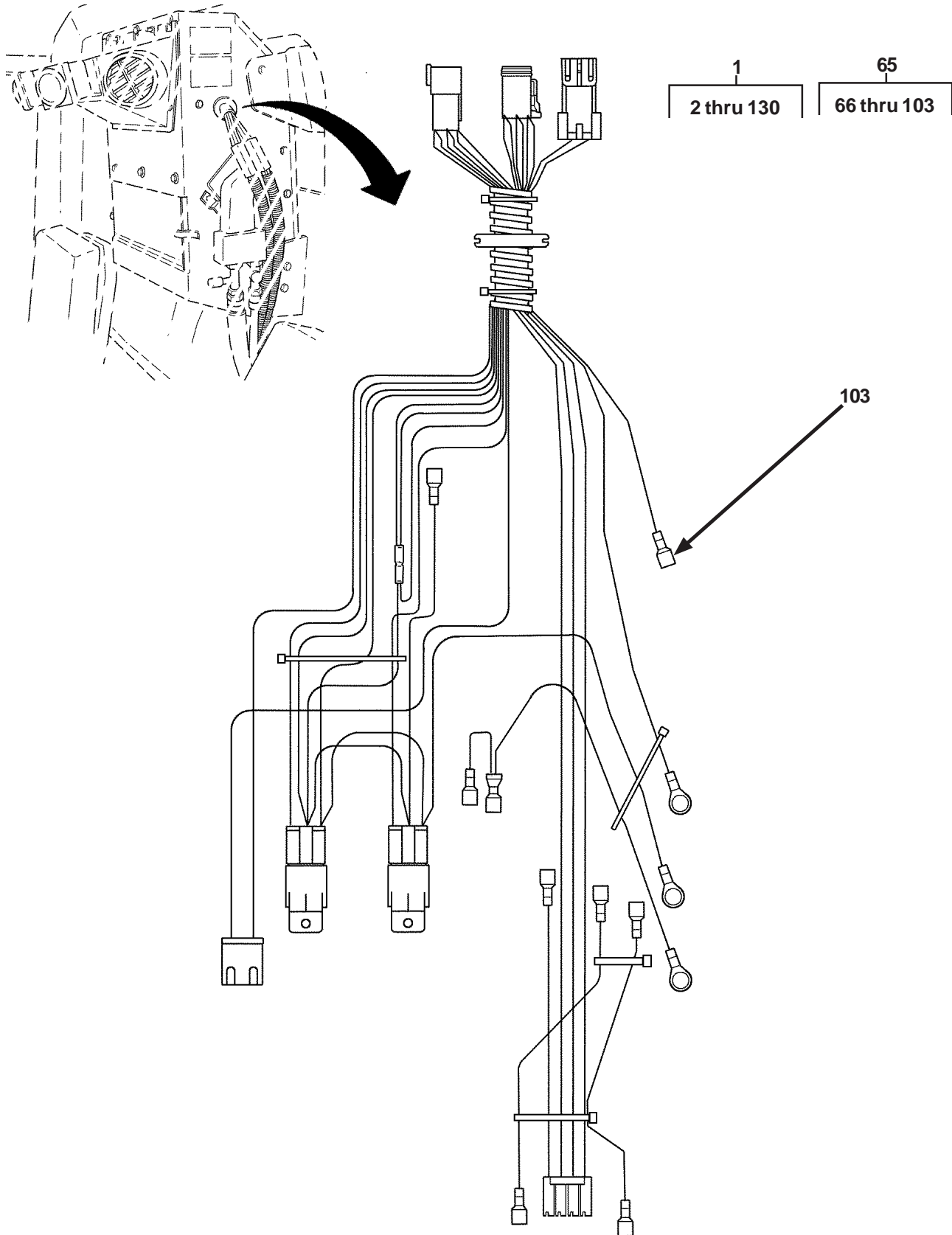


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 5 of 7)

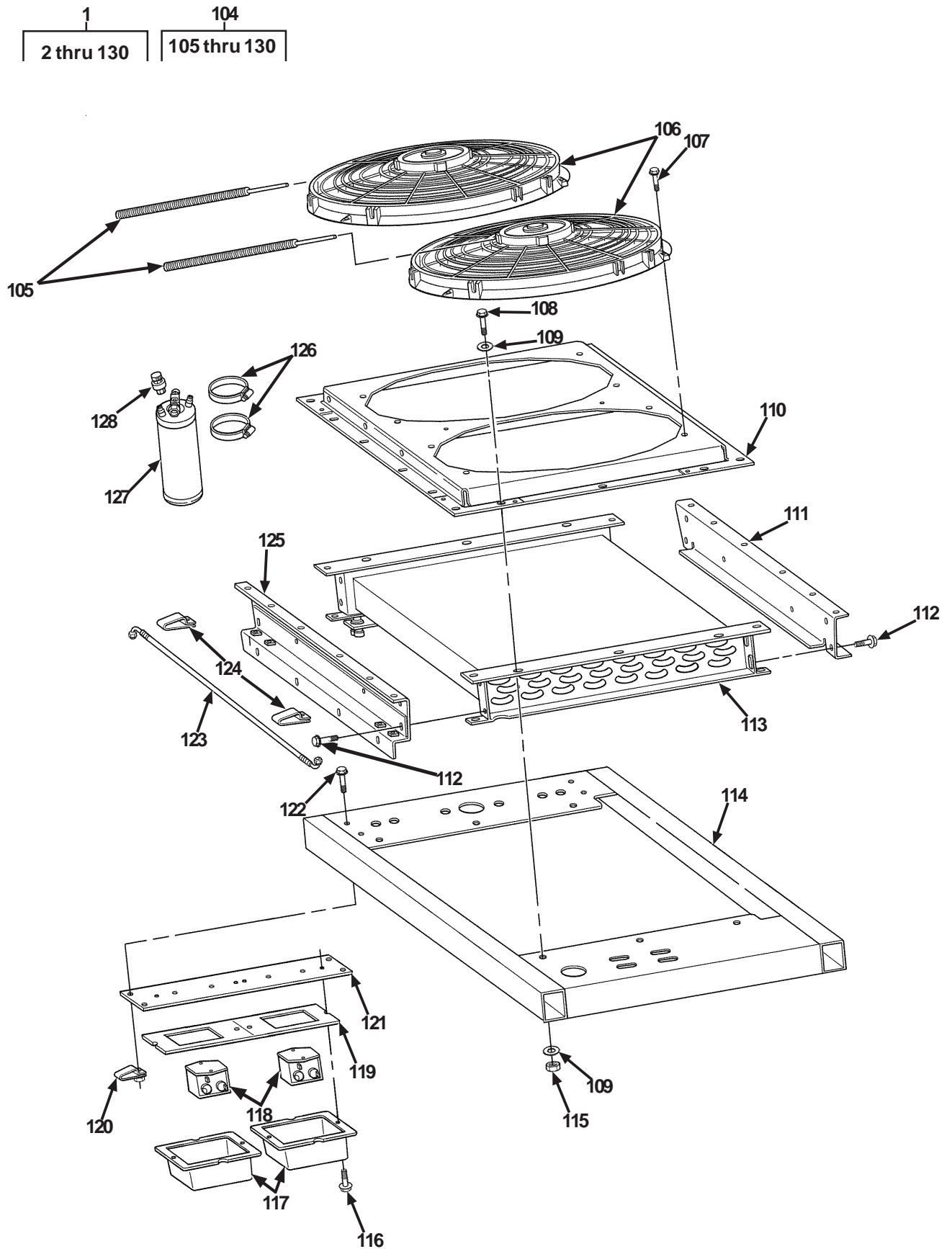


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 6 of 7)

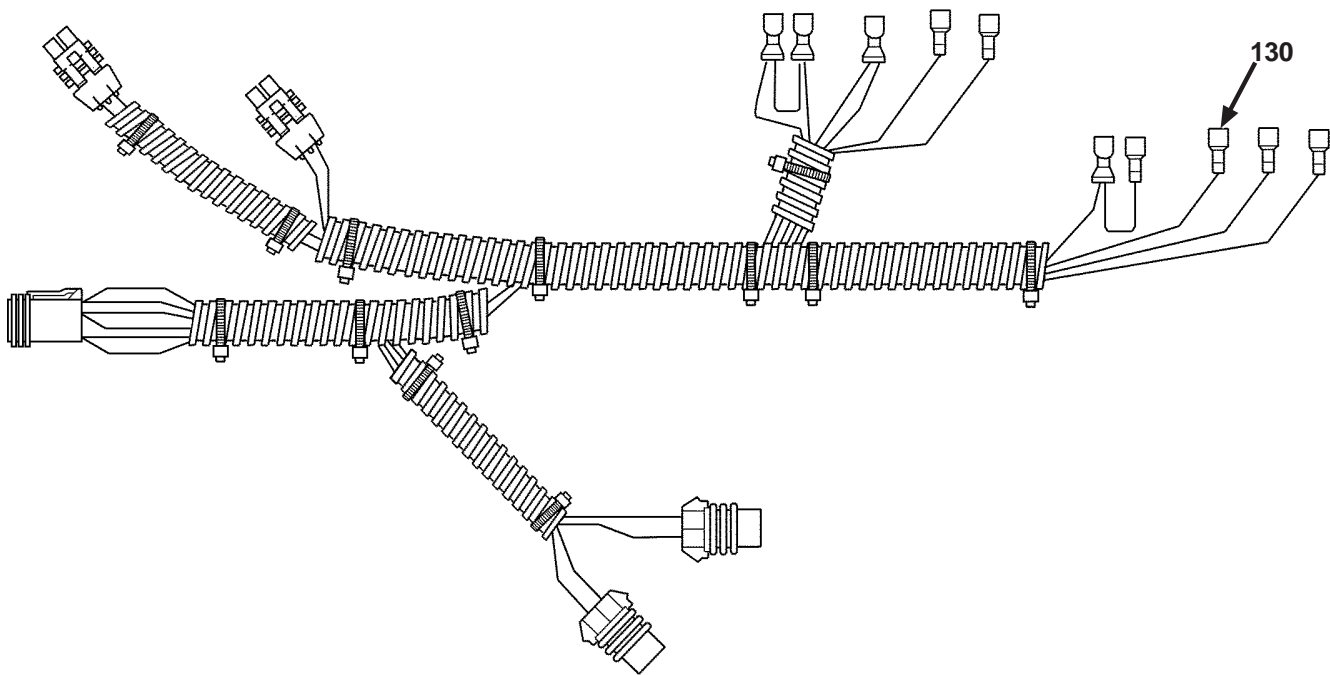
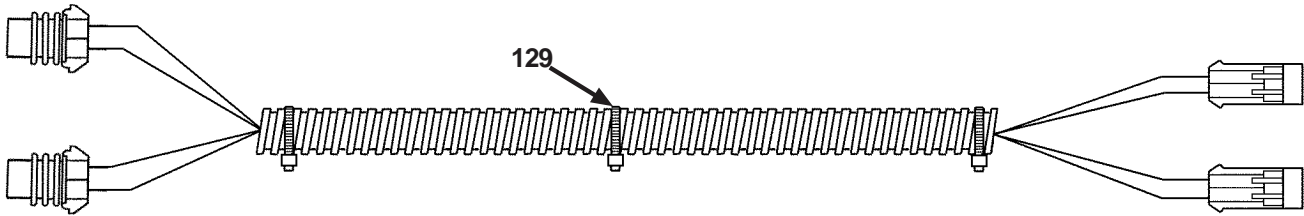


Figure 10. Air Conditioner Kit for M1037 Two-Door with O'Gara Hess Armor (Sheet 7 of 7)

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 10 AIR CONDITIONER KIT FOR M1037 TWO-DOOR WITH O'GARA HESS ARMOR	
1	PAOOO	4130015311190	62534	RD-2-4448-0P	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:H21	
2	PAOZZ	5340015298292	62534	RD-2-4427-0	.BRACKET,MOUNTING . . . . .	1
					UOC:H21	
3	PAOZZ	5340015297702	62534	RD-4-6065-0	.BRACKET,MOUNTING . . . . .	1
					UOC:H21	
4	PAOZZ	TBD	62534	RD-5-11682-0	.WASHER . . . . .	46
					UOC:H21	
5	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT . . . . .	8
				1.500	UOC:H21	
6	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:H21	
7	PAOZZ	5305015232459	62534	RD-5-5351-1-25	.SCREW,CAP,HEXAGON HEAD . . . . .	8
					UOC:H21	
8	PAOZZ	TBD	62534	RD-5-11678-0	.NUT . . . . .	22
					UOC:H21	
9	PAOZZ	TBD	62534	RD-5-11676-0	.BOLT . . . . .	8
				1.250	UOC:H21	
10	PAOZZ	5340015299064	62534	RD-4-6075-0	.BRACKET,MOUNTING . . . . .	1
					UOC:H21	
11	PAOZZ	TBD	62534	RD-4-6073-0	.BACKING PLATE BOTTOM CONDENSER SUPPORT . . . . .	4
					UOC:H21	
12	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT . . . . .	6
				1.750	UOC:H21	
13	PAOZZ	5340015295529	62534	RD-4-6081-0	.BRACKET,MOUNTING . . . . .	1
					UOC:H21	
14	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:H21	
15	PAOZZ	4730015254521	62534	RD-5-10522-0P	.ELBOW,TUBE #8 90° FEMALE . . . . .	2
					UOC:H21	
16	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:H21	
17	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:H21	
18	PAOZZ	4720015239231	62534	RD-5-10504-	.HOSE,METALLIC #6 REFRIG . . . . .	1
				600P	UOC:H21	
19	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:H21	
20	PAOZZ	4730015298151	62534	RD-5-11672-0	.ADAPTER,STRAIGHT #6 . . . . .	1
					UOC:H21	
21	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE . . . . .	2
					UOC:H21	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
22	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE, NONMETALLIC #6 CLIP ..... UOC:H21	4
23	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET, NONMETALLIC ..... UOC:H21	4
24	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE, NONMETALLIC #8 REFRIG ..... UOC:H21	1
25	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE, NONMETALLIC #12 REFRIG ..... UOC:H21	1
26	PAOZZ	3990015234851	62534	RD-5-6326-0P	.TIE DOWN, CARGO, VEHICLE ..... UOC:H21	1
27	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 ..... UOC:H21	2
28	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER, PIPE #10/#12 90° MALE ..... UOC:H21	1
29	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE, NONMETALLIC #12 CAGE ..... UOC:H21	2
30	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP, HOSE #12 CLIP ..... UOC:H21	4
31	PAOZZ	TBD	62534	RD-2-4429-0	.BACKING PLATE BOTTOM BRACKET ..... UOC:H21	3
32	PAOZZ	5340015298143	62534	RD-2-4428-0	.BRACKET, MOUNTING ..... UOC:H21	1
33	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG, TUBE FITTING, THREADED ..... UOC:H21	2
34	PAOZZ	TBD	62534	RD-5-6532-13	.HOSE, DRAIN ..... UOC:H21	2
35	PAOZZ	5325015299543	62534	RD-5-3861-0	.GROMMET, NONMETALLIC ..... UOC:H21	1
36	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP ..... UOC:H21	2
37	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE ..... UOC:H21	2
38	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR, AIR CIRCULATING ..... UOC:H21	2
39	PAOZZ	4730015251956	62534	RD-5-10537-0P	.ELBOW, TUBE #6 90° MALE ..... UOC:H21	1
40	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW, TUBE TO HOSE #10 TO #12 90° FEMALE ..... UOC:H21	1
41	PAOZZ	5340015299047	62534	RD-3-11866-1	.BRACKET, MOUNTING ..... UOC:H21	2
42	PAOZZ	4730015299380	62534	RD-5-4400-0	.CLAMP, HOSE ..... UOC:H21	2
43	PAOZZ	5305015298296	62534	RD-5-8222-1- 22	.SCREW, CAP, HEXAGON HEAD ..... UOC:H21	2
44	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX, ELECTRICAL ..... UOC:H21	1
45	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW, MACHINE ..... UOC:H21	4
46	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER, LOCK ..... UOC:H21	4
47	PAOZZ	5305015258583	62534	RD-5-6250-0-	.SCREW, MACHINE ..... UOC:H21	2

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
48	PAOZZ	5305015258603	62534	55 RD-5-6250-0-30	UOC:H21 .SCREW,MACHINE	1
49	PAOZZ	5340015263469	62534	RD-9-10027-0	UOC:H21 .BRACKET,MOUNTING COMPRESSOR	1
50	PAOZZ	5310015258620	62534	RD-5-9377-0	UOC:H21 .NUT,SELF-LOCKING,HEXAGON	2
51	PAOZZ	5310015259051	62534	RD-5-6260-0	UOC:H21 .WASHER,FLAT 1/4	2
52	PAOZZ	5305015260983	62534	RD-5-6141-0-130	UOC:H21 .SCREW,MACHINE	1
53	PAOZZ	3020015242457	62534	RD-5-11409-0P	UOC:H21 .PULLEY,GROOVE 5	1
54	PAOZZ	5305015298139	62534	RD-5-6250-0-50	UOC:H21 .SCREW,CAP,HEXAGON HEAD	1
55	PAOZZ	5310015256841	62534	RD-5-6261-0	UOC:H21 .WASHER,FLAT 1/8	1
56	PAOZZ	5365015258531	62534	RD-5-6296-.750	UOC:H21 .SPACER,SLEEVE	1
57	PAOZZ	2920012565910	62534	RD-9-10032-0	UOC:H21 .ARM,ADJUSTING,BELT TENSION	1
58	PAOZZ	3030015242455	62534	RD-5-11406-0P	UOC:H21 .BELT,V 44-5/8"	1
59	PAOZZ	4130015217816	62534	RD-5-11393-0P	UOC:H21 .COMPRESSOR,REFRIGERATION 24V 2A JD	1
60	PAOZZ	6150015217661	62534	RD-2-4156-0P	UOC:H21 .WIRING HARNESS,BRANCHED CONTROL PANEL	1
61	PAOZZ	5975015249811	62534	RD-5-4137-0M	UOC:H21 .STRAP,TIEDOWN,ELECTRICAL COMPONENTS	10
62	PAOZZ	6150015253955	62534	RD-2-4163-0P	UOC:H21 .WIRING HARNESS BATTERY	1
63	PAOZZ	6150015251625	62534	RD-2-4160-0P	UOC:H21 .WIRING HARNESS CLUTCH	1
64	PAOZZ	6150015251122	62534	RD-2-4244-0P	UOC:H21 .WIRING HARNESS JUMPER	1
65	PAOOO	4120015306339	62534	RD-2-4243-0	UOC:H21 .AIR CONDITIONER (SERVICE PARTS R-2400-1)	1
66	PAOZZ	5340015238425	62534	RD-2-4116-0	UOC:H21 .COVER,ACCESS	1
67	PAOZZ	5325015248831	62534	RD-5-4053-0P	UOC:H21 .GROMMET,NONMETALLIC	1
68	PAOZZ	5925015217620	62534	RD-5-11437-0P	UOC:H21 .CIRCUIT BREAKER 30 AMP	1
69	PAOZZ	5310015252737	62534	RD-5-4133-0M	UOC:H21 .NUT,PLAIN,HEXAGON 7/16-28	1
70	PAOZZ	5340015232793	62534	RD-2-4122-0P	UOC:H21 .STRAP,RETAINING	1
71	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:H21 .GASKET	1

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
72	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:H21 ..PLATE,RETAINING,SEAL .....	1
73	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:H21 ..SCREW,CAP,HEXAGON HEAD .....	14
74	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:H21 ..SCREW,CAP,HEXAGON HEAD .....	4
75	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:H21 ..BRACKET,ANGLE .....	2
76	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:H21 ..VALVE,EXPANSION R134a 2 TON .....	1
77	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:H21 ..NUT,CLIP M6 .....	1
78	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:H21 ..SCREW,ASSEMBLED WASHER .....	2
79	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:H21 ..O-RING #8 .....	1
80	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:H21 ..COVER,ACCESS .....	1
81	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:H21 ..O-RING #10 .....	1
82	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:H21 ..CLIP,SPRING,TENSION .....	2
83	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:H21 ..RIVET,BLIND .....	2
84	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:H21 ..GASKET .....	2
85	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:H21 ..FILTER ELEMENT,AIR CONDITIONING ....	1
86	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:H21 ..EVAPORATOR COIL,REFRIGERATION .....	1
87	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:H21 ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
88	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:H21 ...DIFFUSER,AIR,HEATING AND VENTILATING .....	2
89	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:H21 ...RETAINER-DIFFUSER .....	2
90	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:H21 ...SCREW,ASSEMBLED WASHER .....	1
91	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:H21 ...DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1
92	PAOZZ	5310015179281	62534	RD-5-4556-1	UOC:H21 ..SCREW,ASSEMBLED WASHER .....	6
93	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	UOC:H21 ..SCREW,CAP,HEXAGON HEAD .....	6
94	PAOZZ	5310015231558	62534	RD-5-4544-0	UOC:H21 ..NUT,SELF-LOCKING,HEXAGON .....	2



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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
95	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER,ACCESS UOC:H21	1
96	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN,CENTRIFUGAL 24V UOC:H21	1
97	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY,ELECTROMAGNETIC UOC:H21	2
98	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL UOC:H21	1
99	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT,FLOW CONTROL UOC:H21	1
100	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE,BENT,METALLIC 1/8 I.D. UOC:H21	1
101	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET,MOUNTING UOC:H21	1
102	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	..SCREW,CAP,HEXAGON HEAD UOC:H21	2
103	PAOZZ	6150015214634	62534	RD-2-4153-0P	..WIRING HARNESS AIR CONDITIONER UOC:H21	1
104	PAOOO	4130015306117	62534	RD-4-6082-0	..CONDENSER,FRAME ASSEMBLY UOC:H21	1
105	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	..INSULATION SLEEVING,ELECTRICAL UOC:H21	2
106	PAOZZ	4140015216422	62534	RD-5-8785-3P	..FAN,CIRCULATING 24V UOC:H21	2
107	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	..SCREW,MACHINE UOC:H21	8
108	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	..BOLT,MACHINE UOC:H21	6
109	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT UOC:H21	12
110	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS UOC:H21	1
111	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR UOC:H21	1
112	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	..SCREW,ASSEMBLED WASHER UOC:H21	8
113	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGATION UOC:H21	1
114	PAOZZ	2510015299425	62534	RD-46068-0	..FRAME SECTION,STRUCTURAL,VEHICUALR UOC:H21	1
115	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT,SELF-LOCKING,HEXAGON UOC:H21	6
116	PAOZZ	TBD	62534	RD-5-7212-1- .375	..SCREW UOC:H21	4
117	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER,ACCESS UOC:H21	2
118	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL UOC:H21	2
119	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
120	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:H21 ..NUT,CLIP M6 .....	4
121	PAOZZ	5340015251931	62534	RD-4-5968-0P	UOC:H21 ..PLATE,MOUNTING .....	1
122	PAOZZ	5305015298296	62534	RD-5-8222-1- 22	UOC:H21 ..SCREW,CAP,HEXAGON HEAD .....	4
123	PAOZZ	4720015297878	62534	RD-4-5983-1	UOC:H21 ..HOSE ASSEMBLY,METALLIC #6 90° FEMALE .....	1
124	PAOZZ	4730015299380	62534	RD-5-4400-0	UOC:H21 ..CLAMP HOSE .....	2
125	PAOZZ	2510015233685	62534	RD-4-5921-0P	UOC:H21 ..FRAME,STRUCTURAL,VEHICULAR .....	1
126	PAOZZ	4730015265020	62534	RD-5-4035-52	UOC:H21 ..CLAMP,HOSE .....	2
127	PAOZZ	4130015215745	62534	RD-5-11435-0P	UOC:H21 ..RECEIVER,LIQUID REFRIGERANT .....	1
128	PAOZZ	5930015247887	62534	RD-5-11064-0P	UOC:H21 ..SWITCH,PRESSURE .....	1
129	PAOZZ	3040015298665	62534	RD-4-6076-0	UOC:H21 ..EXTENSION,SHAFT WIRING HARNESS ....	1
130	PAOZZ	6150015215712	62534	RD-4-5913-0P	UOC:H21 ..WIRING HARNESS,BRANCHED CONDENSER .....	1

END OF FIGURE



1  
2 thru 130

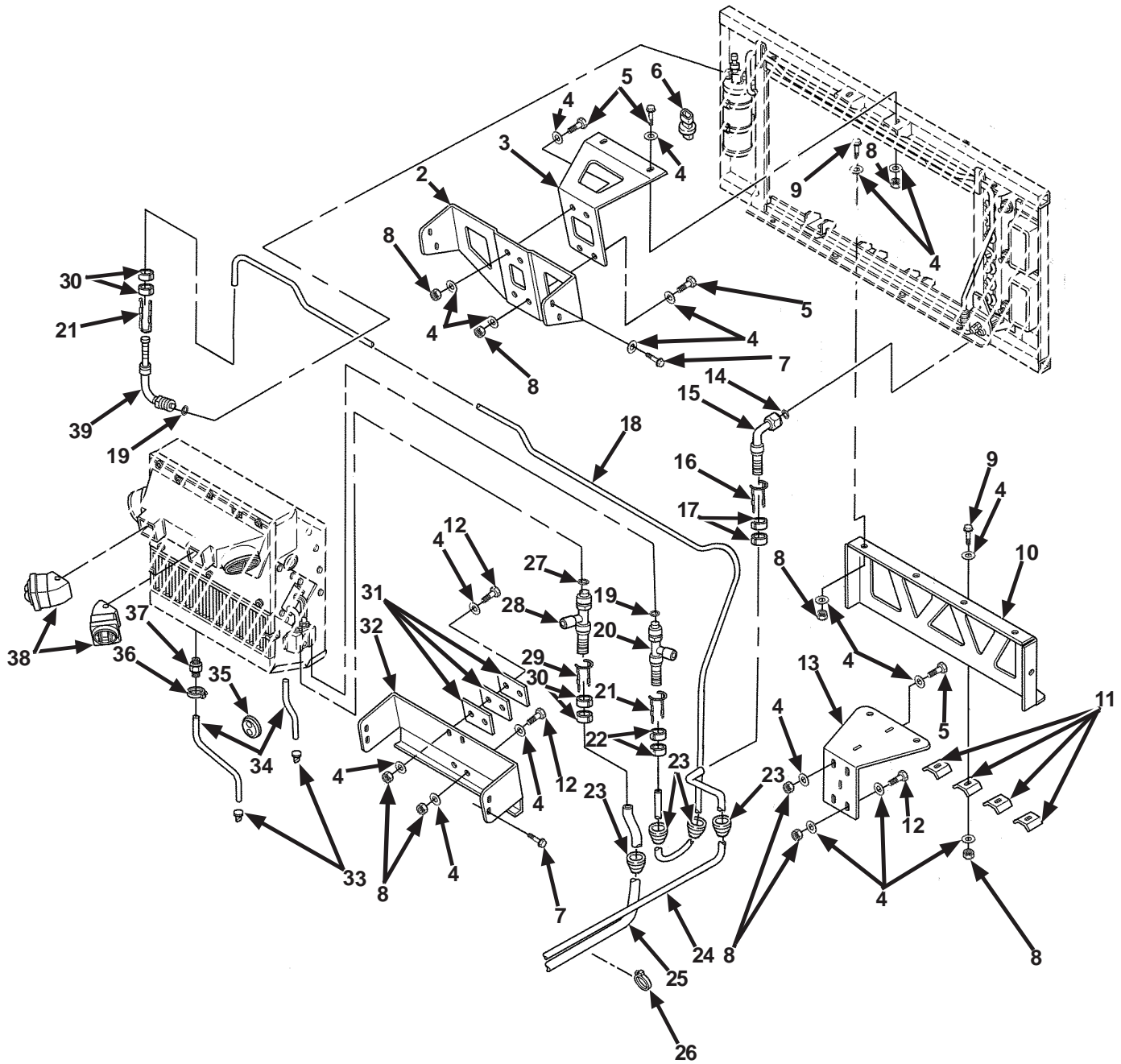


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 1 of 7)

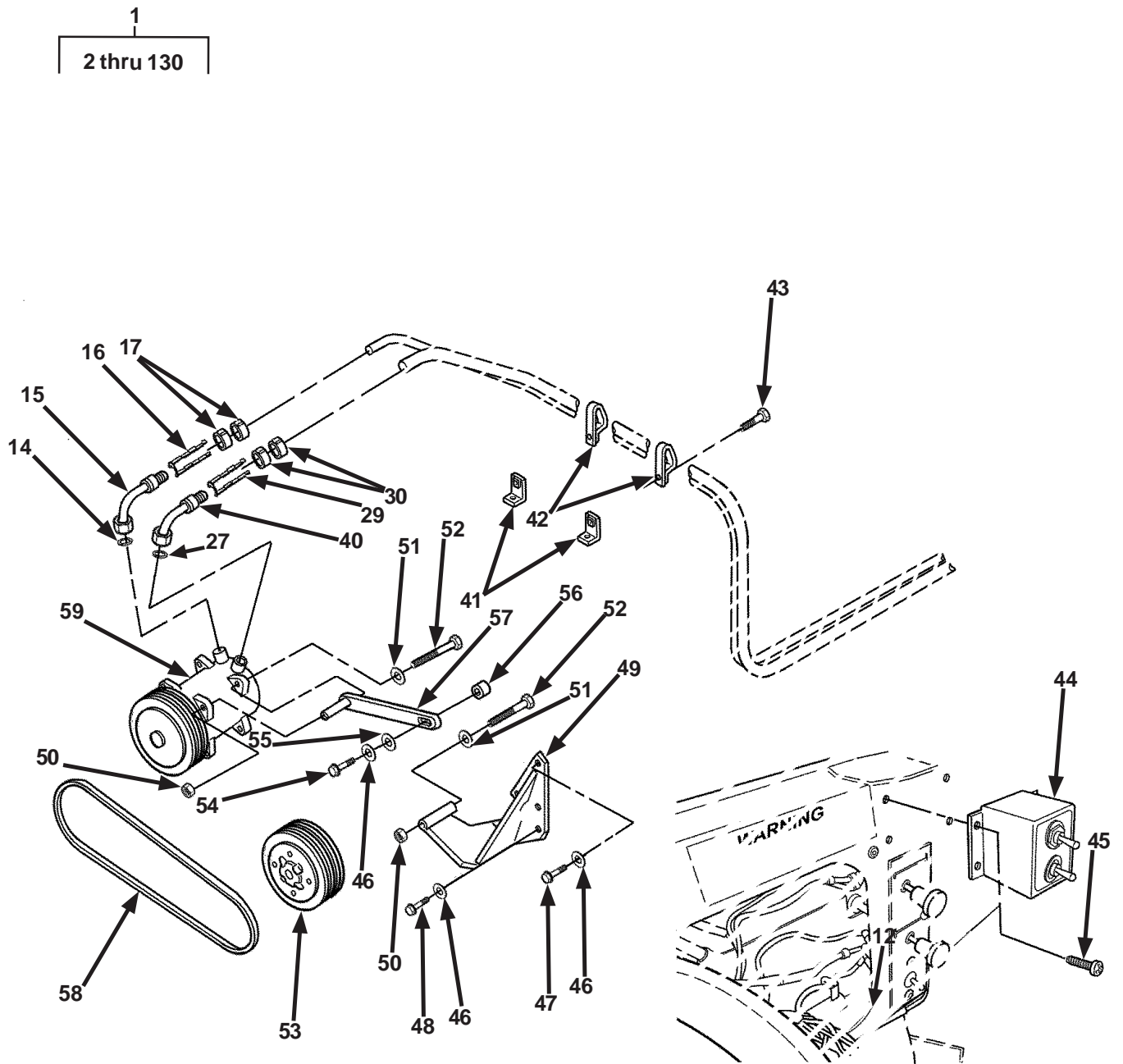


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 2 of 7)

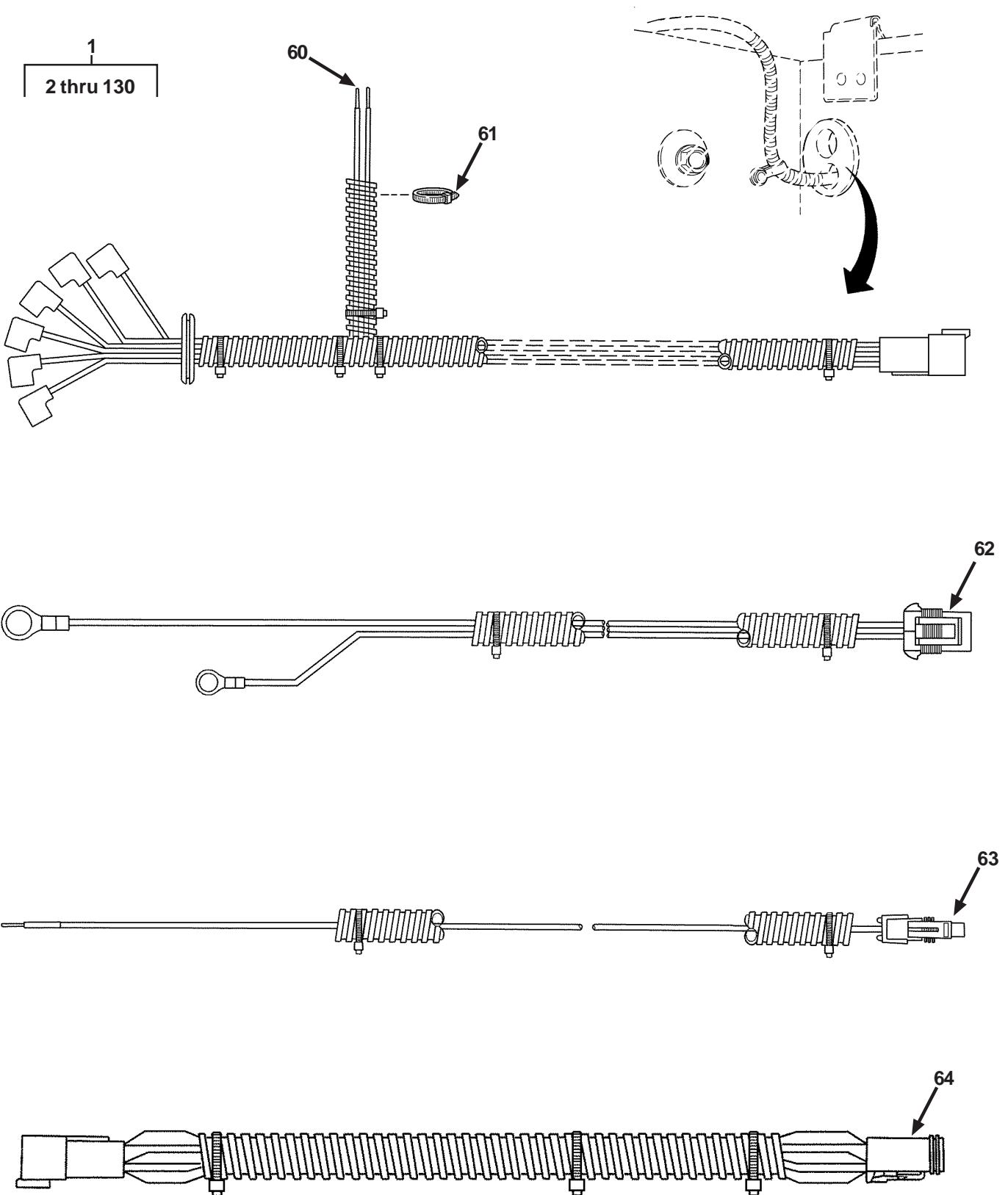


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 3 of 7)

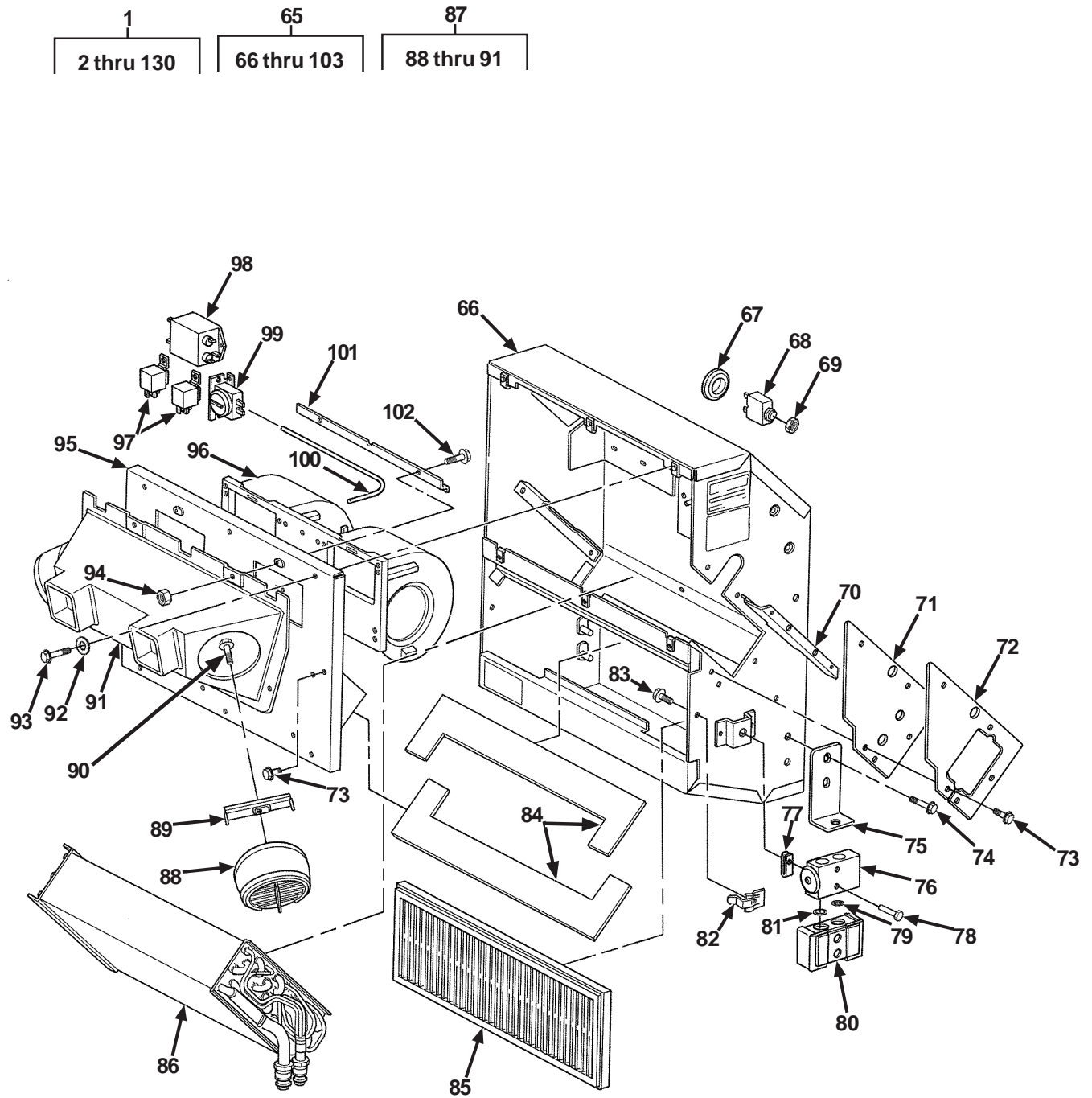


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 4 of 7)

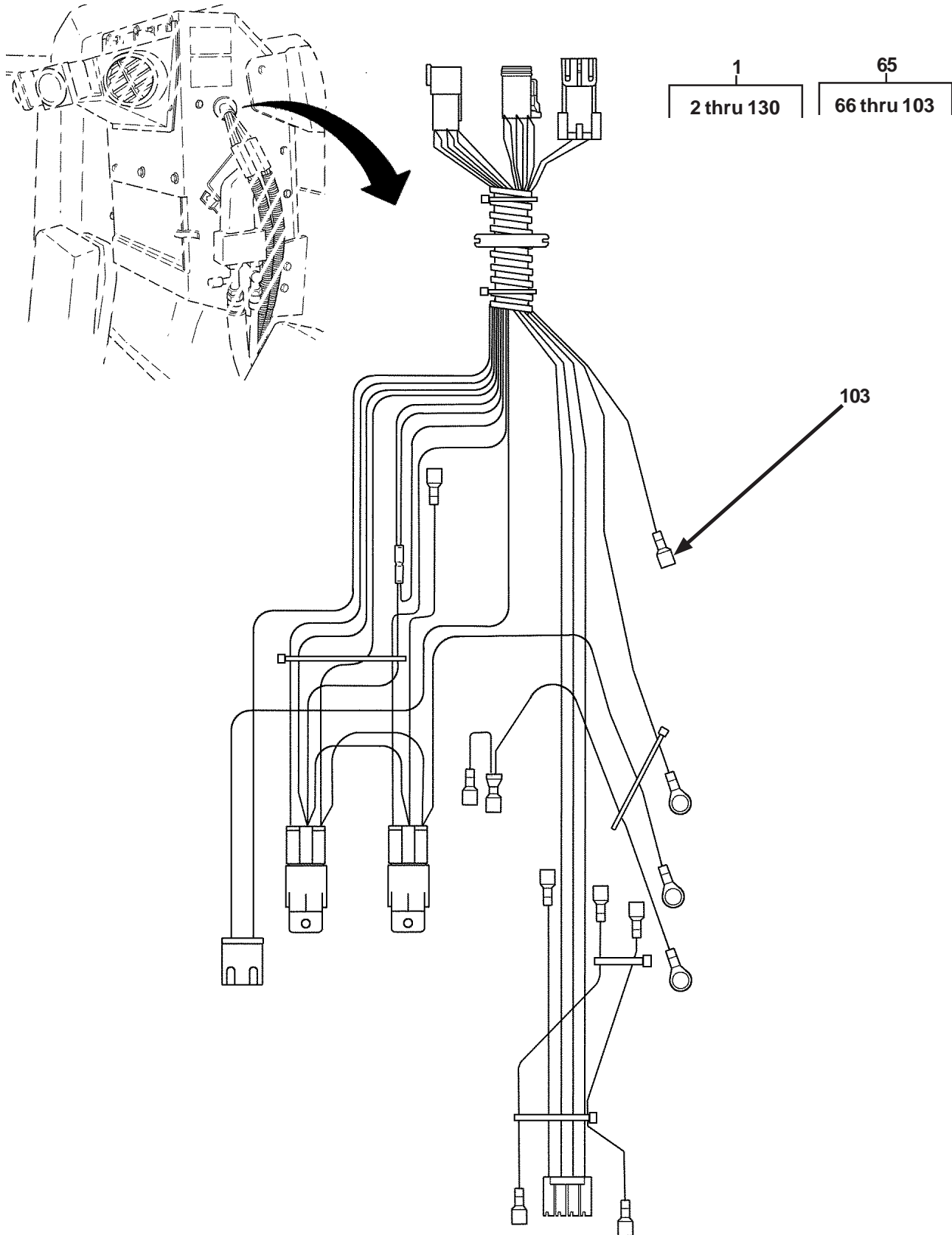


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 5 of 7)



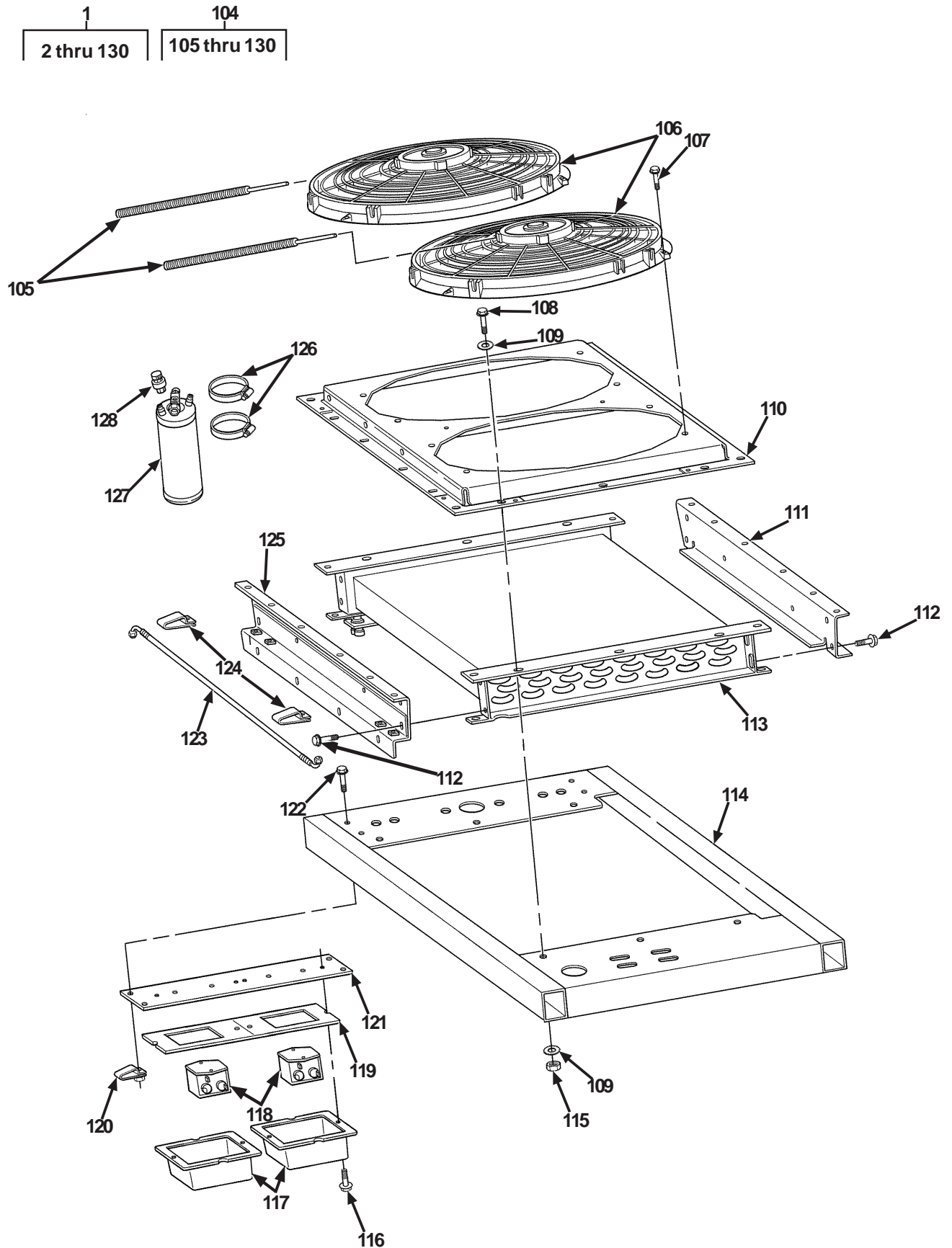


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 6 of 7)

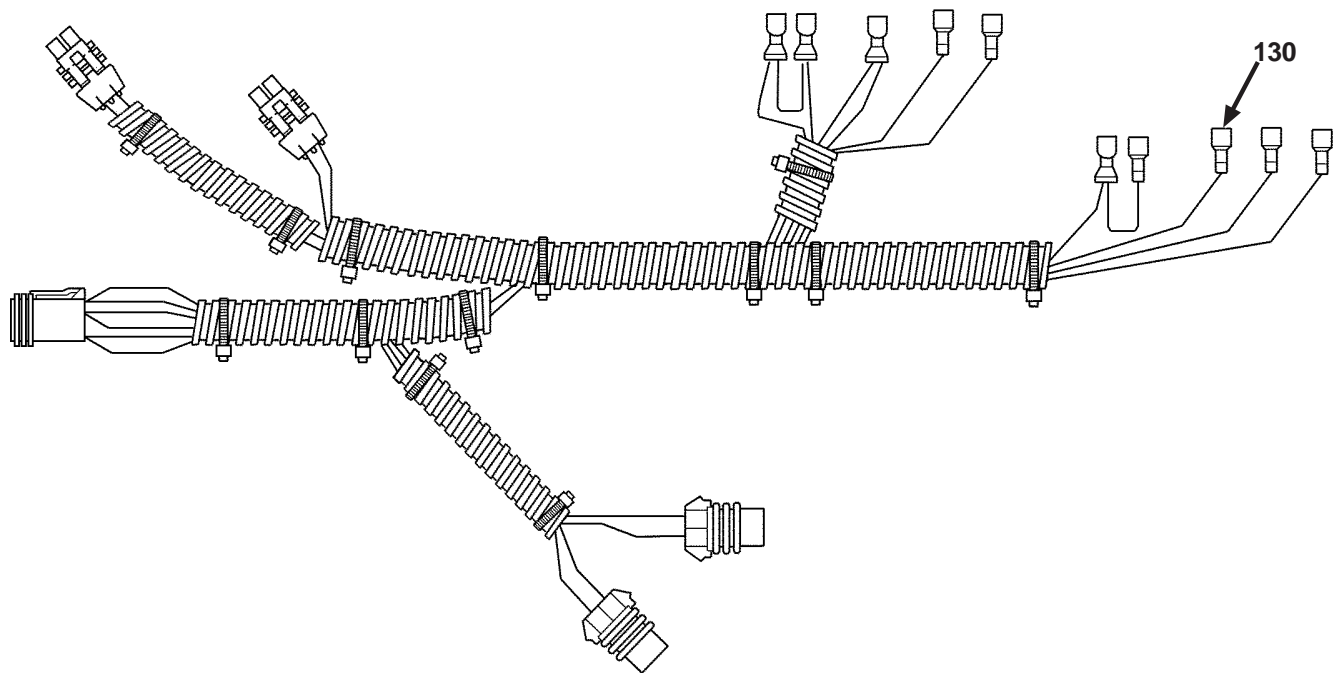
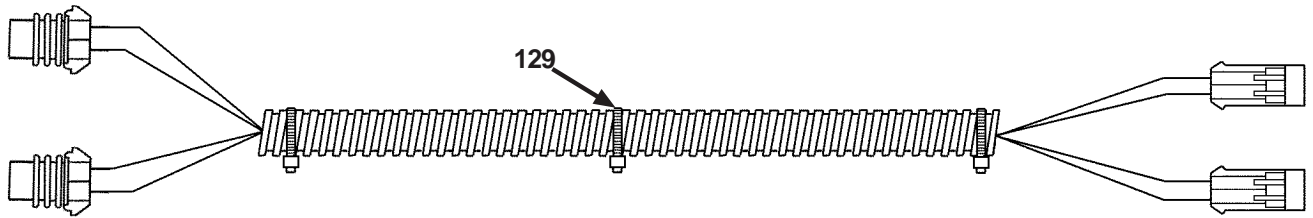
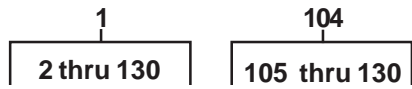


Figure 11. Air Conditioner Kit for M1097 and M1097A1 Two-Door with O'Gara Hess Armor (Sheet 7 of 7)

## SECTION II

TB 9-2510-251-13

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 11 AIR CONDITIONER KIT FOR M1097 AND M1097A1 TWO-DOOR WITH O'GARA HESS ARMOR	
1	PAOOO	4130015311190	62534	RD-2-4448-0P	PARTS KIT,AIR CONDITIONER .....	1
					UOC:AVY,HVY	
2	PAOZZ	5340015298292	62534	RD-2-4427-0	.BRACKET,MOUNTING .....	1
					UOC:AVY,HVY	
3	PAOZZ	5340015297702	62534	RD-4-6065-0	.BRACKET,MOUNTING .....	1
					UOC:AVY,HVY	
4	PAOZZ	TBD	62534	RD-5-11682-0	.WASHER .....	46
					UOC:AVY,HVY	
5	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT .....	8
				1.500	UOC:AVY,HVY	
6	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE .....	1
					UOC:AVY,HVY	
7	PAOZZ	5305015232459	62534	RD-5-5351-1-25	.SCREW,CAP,HEXAGON HEAD .....	8
					UOC:AVY,HVY	
8	PAOZZ	TBD	62534	RD-5-11678-0	.NUT .....	22
					UOC:AVY,HVY	
9	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT .....	8
				1.250	UOC:AVY,HVY	
10	PAOZZ	5340015299064	62534	RD-4-6075-0	.BRACKET,MOUNTING .....	1
					UOC:AVY,HVY	
11	PAOZZ	TBD	62534	RD-4-6073-0	.BACKING PLATE BOTTOM CONDENSER SUPPORT .....	4
					UOC:AVY,HVY	
12	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT .....	6
				1.750	UOC:AVY,HVY	
13	PAOZZ	5340015295529	62534	RD-4-6081-0	.BRACKET,MOUNTING .....	1
					UOC:AVY,HVY	
14	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 .....	2
					UOC:AVY,HVY	
15	PAOZZ	4730015254521	62534	RD-5-10522-0P	.ELBOW,TUBE #8 90° FEMALE .....	2
					UOC:AVY,HVY	
16	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE .....	2
					UOC:AVY,HVY	
17	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP .....	4
					UOC:AVY,HVY	
18	PAOZZ	4720015239231	62534	RD-5-10504-	.HOSE,METALLIC #6 REFRIG .....	1
				600P	UOC:AVY,HVY	
19	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 .....	2
					UOC:AVY,HVY	
20	PAOZZ	4730015298151	62534	RD-5-11672-0	.ADAPTER,STRAIGHT #6 .....	1
					UOC:AVY,HVY	
21	PAOZZ	4720015251960	62534	RD-5-10709-0P	.HOSE,NONMETALLIC #6 CAGE .....	2
					UOC:AVY,HVY	

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
22	PAOZZ	4720015249153	62534	RD-5-10713-0P	.HOSE, NONMETALLIC #6 CLIP ..... UOC: AVY, HVY	4
23	PAOZZ	4730015233729	62534	RD-5-6600-0P	.GROMMET, NONMETALLIC ..... UOC: AVY, HVY	4
24	PAOZZ	4720015235941	62534	RD-5-10505- 600P	.HOSE, NONMETALLIC #8 REFRIG ..... UOC: AVY, HVY	1
25	PAOZZ	4720015233955	62534	RD-5-10507- 600P	.HOSE, NONMETALLIC #12 REFRIG ..... UOC: AVY, HVY	1
26	PAOZZ	3990015234851	62534	RD-5-6326-0P	.TIE DOWN, CARGO, VEHICLE ..... UOC: AVY, HVY	1
27	PAOZZ	5331015247872	62534	RD-5-11017-0P	.O-RING #10 ..... UOC: AVY, HVY	2
28	PAOZZ	4730015239527	62534	RD-5-10574-0P	.REDUCER, PIPE #10/#12 90° MALE ..... UOC: AVY, HVY	1
29	PAOZZ	4720015248886	62534	RD-5-10712-0P	.HOSE, NONMETALLIC #12 CAGE ..... UOC: AVY, HVY	2
30	PAOZZ	4730015249089	62534	RD-5-10716-0P	.CLAMP, HOSE #12 CLIP ..... UOC: AVY, HVY	4
31	PAOZZ	TBD	62534	RD-2-4429-0	.BACKING PLATE BOTTOM BRACKET ..... UOC: AVY, HVY	3
32	PAOZZ	5340015298143	62534	RD-2-4428-0	.BRACKET, MOUNTING ..... UOC: AVY, HVY	1
33	PAOZZ	4730015234097	62534	RD-5-5901-0P	.PLUG, TUBE FITTING, THREADED ..... UOC: AVY, HVY	2
34	PAOZZ	TBD	62534	RD-5-6532-13	.HOSE, DRAIN ..... UOC: AVY, HVY	2
35	PAOZZ	5325015299543	62534	RD-5-3861-0	.GROMMET, NONMETALLIC ..... UOC: AVY, HVY	1
36	PAOZZ	TBD	62534	RD-5-6666-0	.CLAMP, LOOP ..... UOC: AVY, HVY	2
37	PAOZZ	4730015205375	62534	RD-5-7196-0	.UNION, PIPE TO HOSE ..... UOC: AVY, HVY	2
38	PAOZZ	2540015268372	62534	RD-2-4162-0	.VENTILATOR, AIR CIRCULATING ..... UOC: AVY, HVY	2
39	PAOZZ	4730015251956	62534	RD-5-10537-0P	.ELBOW, TUBE #6 90° MALE ..... UOC: AVY, HVY	1
40	PAOZZ	4730015236296	62534	RD-5-10525-0P	.ELBOW, TUBE TO HOSE #10 TO #12 90° FEMALE ..... UOC: AVY, HVY	1
41	PAOZZ	5340015299047	62534	RD-3-11866-1	.BRACKET, MOUNTING ..... UOC: AVY, HVY	2
42	PAOZZ	4730015299380	62534	RD-5-4400-0	.CLAMP, HOSE ..... UOC: AVY, HVY	2
43	PAOZZ	5305015298296	62534	RD-5-8222-1- 22	.SCREW, CAP, HEXAGON HEAD ..... UOC: AVY, HVY	2
44	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX, ELECTRICAL ..... UOC: AVY, HVY	1
45	PAOZZ	5305015249553	62534	RD-5-6675-0- 1.000	.SCREW, MACHINE ..... UOC: AVY, HVY	4

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
46	PAOZZ	5310015264993	62534	RD-5-6139-0	.WASHER, LOCK UOC: AVY, HVY	4
47	PAOZZ	5305015258583	62534	RD-5-6250-0- 55	.SCREW, MACHINE UOC: AVY, HVY	2
48	PAOZZ	5305015258603	62534	RD-5-6250-0- 30	.SCREW, MACHINE UOC: AVY, HVY	1
49	PAOZZ	5340015263469	62534	RD-9-10027-0	.BRACKET, MOUNTING COMPRESSOR UOC: AVY, HVY	1
50	PAOZZ	5310015258620	62534	RD-5-9377-0	.NUT, SELF-LOCKING, HEXAGON UOC: AVY, HVY	2
51	PAOZZ	5310015259051	62534	RD-5-6260-0	.WASHER, FLAT 1/4 UOC: AVY, HVY	2
52	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	.SCREW, MACHINE UOC: AVY, HVY	1
53	PAOZZ	3020015242457	62534	RD-5-11409-0P	.PULLEY, GROOVE 5 UOC: AVY, HVY	1
54	PAOZZ	5305015298139	62534	RD-5-6250-0- 50	.SCREW, CAP, HEXAGON HEAD UOC: AVY, HVY	1
55	PAOZZ	5310015256841	62534	RD-5-6261-0	.WASHER, FLAT 1/8 UOC: AVY, HVY	1
56	PAOZZ	5365015258531	62534	RD-5-6296-.750	.SPACER, SLEEVE UOC: AVY, HVY	1
57	PAOZZ	2920012565910	62534	RD-9-10032-0	.ARM, ADJUSTING, BELT TENSION UOC: AVY, HVY	1
58	PAOZZ	3030015242455	62534	RD-5-11406-0P	.BELT, V 44-5/8" UOC: AVY, HVY	1
59	PAOZZ	4130015217816	62534	RD-5-11393-0P	.COMPRESSOR, REFRIGERATION 24V 2A JD UOC: AVY, HVY	1
60	PAOZZ	6150015217661	62534	RD-2-4156-0P	.WIRING HARNESS, BRANCHED CONTROL PANEL UOC: AVY, HVY	1
61	PAOZZ	5975015249811	62534	RD-5-4137-0M	.STRAP, TIEDOWN, ELECTRICAL COMPONENTS UOC: AVY, HVY	10
62	PAOZZ	6150015253955	62534	RD-2-4163-0P	.WIRING HARNESS BATTERY UOC: AVY, HVY	1
63	PAOZZ	6150015251625	62534	RD-2-4160-0P	.WIRING HARNESS CLUTCH UOC: AVY, HVY	1
64	PAOZZ	6150015251122	62534	RD-2-4244-0P	.WIRING HARNESS JUMPER UOC: AVY, HVY	1
65	PAOOO	4120015306339	62534	RD-2-4243-0	.AIR CONDITIONER (SERVICE PARTS R-2400-1) UOC: AVY, HVY	1
66	PAOZZ	5340015238425	62534	RD-2-4116-0	.COVER, ACCESS UOC: AVY, HVY	1
67	PAOZZ	5325015248831	62534	RD-5-4053-0P	.GROMMET, NONMETALLIC UOC: AVY, HVY	1
68	PAOZZ	5925015217620	62534	RD-5-11437-0P	.CIRCUIT BREAKER 30 AMP	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
69	PAOZZ	5310015252737	62534	RD-5-4133-0M	UOC:AVY,HVY ..NUT,PLAIN,HEXAGON 7/16-28 .....	1
70	PAOZZ	5340015232793	62534	RD-2-4122-0P	UOC:AVY,HVY ..STRAP,RETAINING .....	1
71	PAOZZ	5330015233722	62534	RD-2-4136-0P	UOC:AVY,HVY ..GASKET .....	1
72	PAOZZ	5340015233992	62534	RD-2-4128-0P	UOC:AVY,HVY ..PLATE,RETAINING,SEAL .....	1
73	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	14
74	PAOZZ	5305015232459	62534	RD-5-5351-1-25	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	4
75	PAOZZ	5340015241893	62534	RD-2-4142-0	UOC:AVY,HVY ..BRACKET,ANGLE .....	2
76	PAOZZ	4820015177304	62534	RD-5-11438-0P	UOC:AVY,HVY ..VALVE,EXPANSION R134a 2 TON .....	1
77	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:AVY,HVY ..NUT,CLIP M6 .....	1
78	PAOZZ	5305015179757	62534	RD-5-5743-0-40	UOC:AVY,HVY ..SCREW,ASSEMBLED WASHER .....	2
79	PAOZZ	5331015249812	62534	RD-5-11016-0P	UOC:AVY,HVY ..O-RING #8 .....	1
80	PAOZZ	5340015242263	62534	RD-5-8410-0	UOC:AVY,HVY ..COVER,ACCESS .....	1
81	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:AVY,HVY ..O-RING #10 .....	1
82	PAOZZ	5340015178600	62534	RD-5-6239-0	UOC:AVY,HVY ..CLIP,SPRING,TENSION .....	2
83	PAOZZ	5320015205086	62534	RD-5-5345-0	UOC:AVY,HVY ..RIVET,BLIND .....	2
84	PAOZZ	5330015233964	62534	RD-2-4149-0P	UOC:AVY,HVY ..GASKET .....	2
85	PAOZZ	4130015217486	62534	RD-2-4132-0P	UOC:AVY,HVY ..FILTER ELEMENT,AIR CONDITIONING ....	1
86	PAOZZ	4130015216442	62534	RD-2-4129-0P	UOC:AVY,HVY ..EVAPORATOR COIL,REFRIGERATION .....	1
87	PAOOO	2540015217709	62534	RD-2-4169-0P	UOC:AVY,HVY ..DUCT ASSEMBLY,AIR CONDITIONING .....	1
88	PAOZZ	2540015360012	62534	RD-5-5223-2	UOC:AVY,HVY ...DIFFUSER,AIR,HEATING AND VENTILATING .....	2
89	PAOZZ	4520015324463	62534	RD-2-4131-0P	UOC:AVY,HVY ...RETAINER-DIFFUSER .....	2
90	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	UOC:AVY,HVY ...SCREW,ASSEMBLED WASHER .....	1
91	PAOZZ	2540015360113	62534	RD-2-4152-0P	UOC:AVY,HVY ...DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR .....	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
92	PAOZZ	5310015179281	62534	RD-5-4556-1	..SCREW,ASSEMBLED WASHER .....	6
					UOC:AVY,HVY	
93	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	..SCREW,CAP,HEXAGON HEAD .....	6
					UOC:AVY,HVY	
94	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT,SELF-LOCKING,HEXAGON .....	2
					UOC:AVY,HVY	
95	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER,ACCESS .....	1
					UOC:AVY,HVY	
96	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN,CENTRIFUGAL 24V .....	1
					UOC:AVY,HVY	
97	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY,ELECTROMAGNETIC .....	2
					UOC:AVY,HVY	
98	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL .....	1
					UOC:AVY,HVY	
99	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT,FLOW CONTROL .....	1
					UOC:AVY,HVY	
100	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE,BENT,METALLIC 1/8 I.D. ....	1
					UOC:AVY,HVY	
101	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET,MOUNTING .....	1
					UOC:AVY,HVY	
102	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	..SCREW,CAP,HEXAGON HEAD .....	2
					UOC:AVY,HVY	
103	PAOZZ	6150015214634	62534	RD-2-4153-0P	..WIRING HARNESS AIR CONDITIONER ....	1
					UOC:AVY,HVY	
104	PAOOO	4130015306117	62534	RD-4-6082-0	..CONDENSER,FRAME ASSEMBLY .....	1
					UOC:AVY,HVY	
105	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	..INSULATION SLEEVING,ELECTRICAL ....	2
					UOC:AVY,HVY	
106	PAOZZ	4140015216422	62534	RD-5-8785-3P	..FAN,CIRCULATING 24V .....	2
					UOC:AVY,HVY	
107	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	..SCREW,MACHINE .....	8
					UOC:AVY,HVY	
108	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	..BOLT,MACHINE .....	6
					UOC:AVY,HVY	
109	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT .....	12
					UOC:AVY,HVY	
110	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS .....	1
					UOC:AVY,HVY	
111	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR .....	1
					UOC:AVY,HVY	
112	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	..SCREW,ASSEMBLED WASHER .....	8
					UOC:AVY,HVY	
113	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGATION .....	1
					UOC:AVY,HVY	
114	PAOZZ	2510015299425	62534	RD-46068-0	..FRAME SECTION,STRUCTURAL,VEHICUALR .	1
					UOC:AVY,HVY	
115	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT,SELF-LOCKING,HEXAGON .....	6
					UOC:AVY,HVY	
116	PAOZZ	TBD	62534	RD-5-7212-1-	..SCREW .....	4

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
117	PAOZZ	5340015232408	62534	.375 RD-4-5886-0P	UOC:AVY,HVY ..COVER,ACCESS .....	2
118	PAOZZ	5915015216706	62534	RD-5-11445-0P	UOC:AVY,HVY ..FILTER ASSEMBLY,ELECTRICAL .....	2
119	PAOZZ	5330015233709	62534	RD-4-5947-0P	UOC:AVY,HVY ..GASKET .....	1
120	PAOZZ	TBD	62534	RD-5-5679-0P	UOC:AVY,HVY ..NUT,CLIP M6 .....	4
121	PAOZZ	5340015251931	62534	RD-4-5968-0P	UOC:AVY,HVY ..PLATE,MOUNTING .....	1
122	PAOZZ	5305015298296	62534	RD-5-8222-1- 22	UOC:AVY,HVY ..SCREW,CAP,HEXAGON HEAD .....	4
123	PAOZZ	4720015297878	62534	RD-4-5983-1	UOC:AVY,HVY ..HOSE ASSEMBLY,METALLIC #6 90° FEMALE .....	1
124	PAOZZ	4730015299380	62534	RD-5-4400-0	UOC:AVY,HVY ..CLAMP HOSE .....	2
125	PAOZZ	2510015233685	62534	RD-4-5921-0P	UOC:AVY,HVY ..FRAME,STRUCTURAL,VEHICULAR .....	1
126	PAOZZ	4730015265020	62534	RD-5-4035-52	UOC:AVY,HVY ..CLAMP,HOSE .....	2
127	PAOZZ	4130015215745	62534	RD-5-11435-0P	UOC:AVY,HVY ..RECEIVER,LIQUID REFRIGERANT .....	1
128	PAOZZ	5930015247887	62534	RD-5-11064-0P	UOC:AVY,HVY ..SWITCH,PRESSURE .....	1
129	PAOZZ	3040015298665	62534	RD-4-6076-0	UOC:AVY,HVY ..EXTENSION,SHAFT WIRING HARNESS ....	1
130	PAOZZ	6150015215712	62534	RD-4-5913-0P	UOC:AVY,HVY ..WIRING HARNESS,BRANCHED CONDENSER .....	1

END OF FIGURE





1

2 thru 137

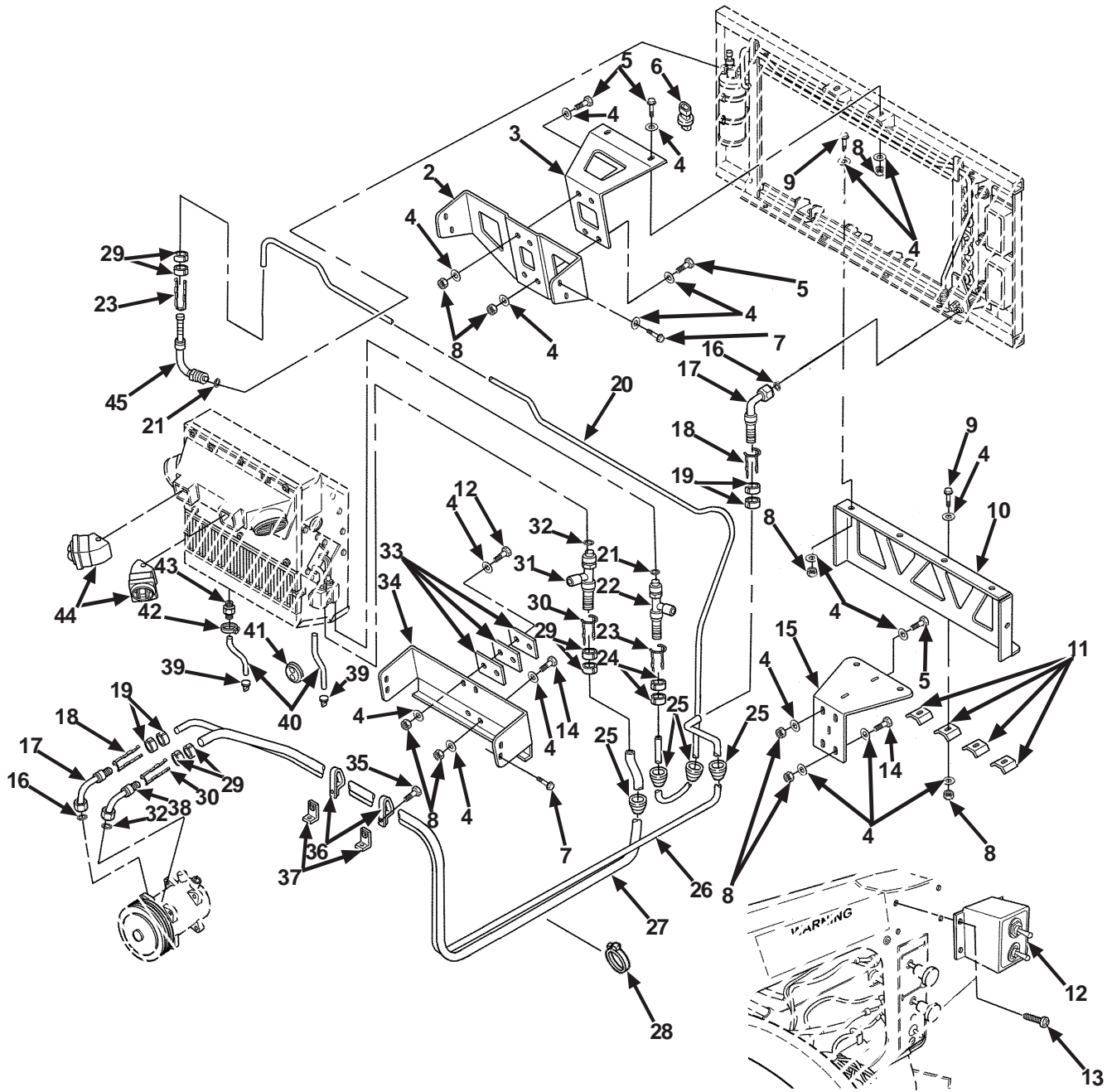


Figure 12. Air Conditioner Kit for M1097A2 Two-Door with O'Gara Hess Armor with Pre-Litens/Litens (Sheet 1 of 7)

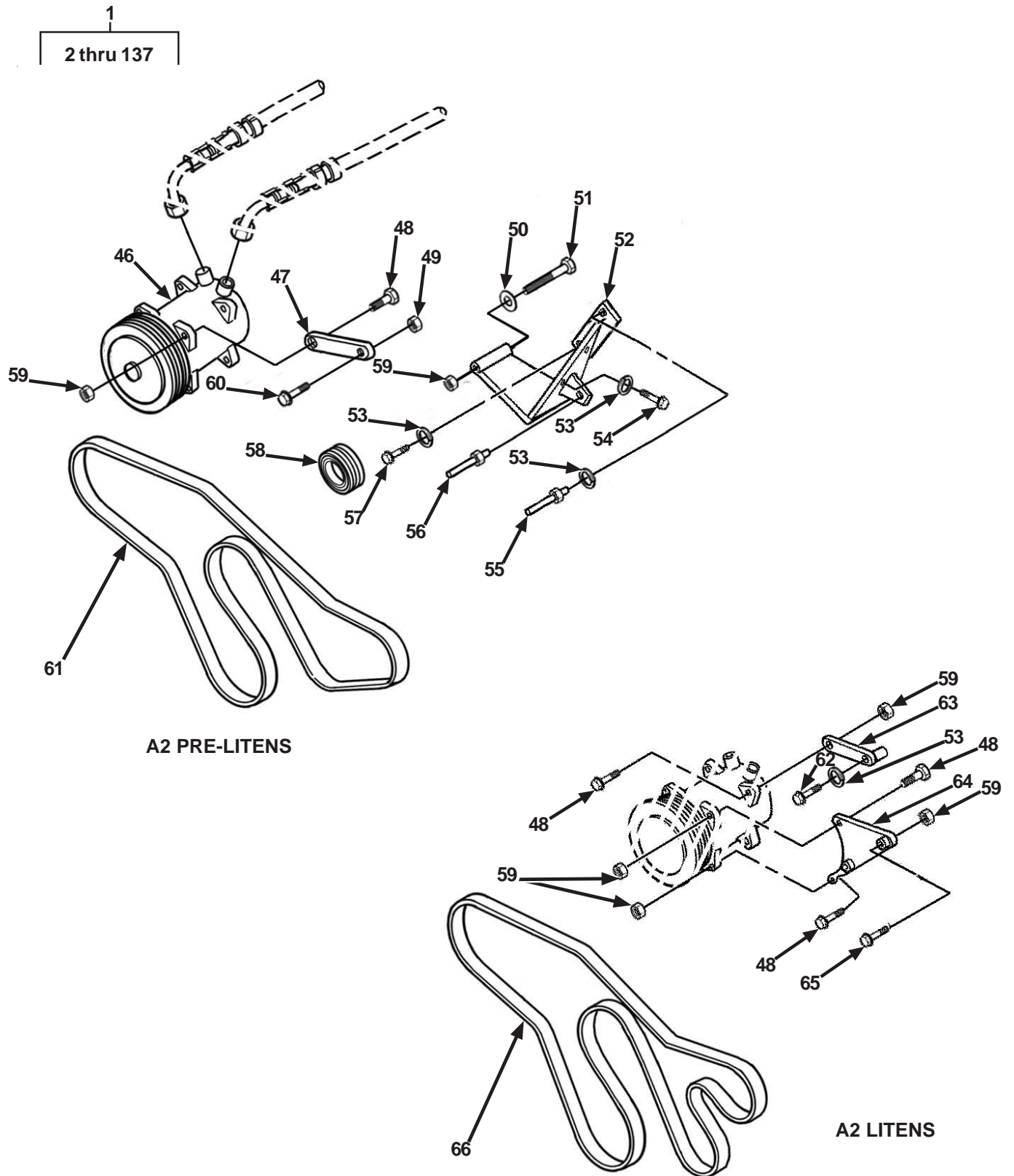


Figure 12. Air Conditioner Kit for M1097A2 Two-Door with O'Gara Hess Armor with Pre-Litens/Litens (Sheet 2 of 7)

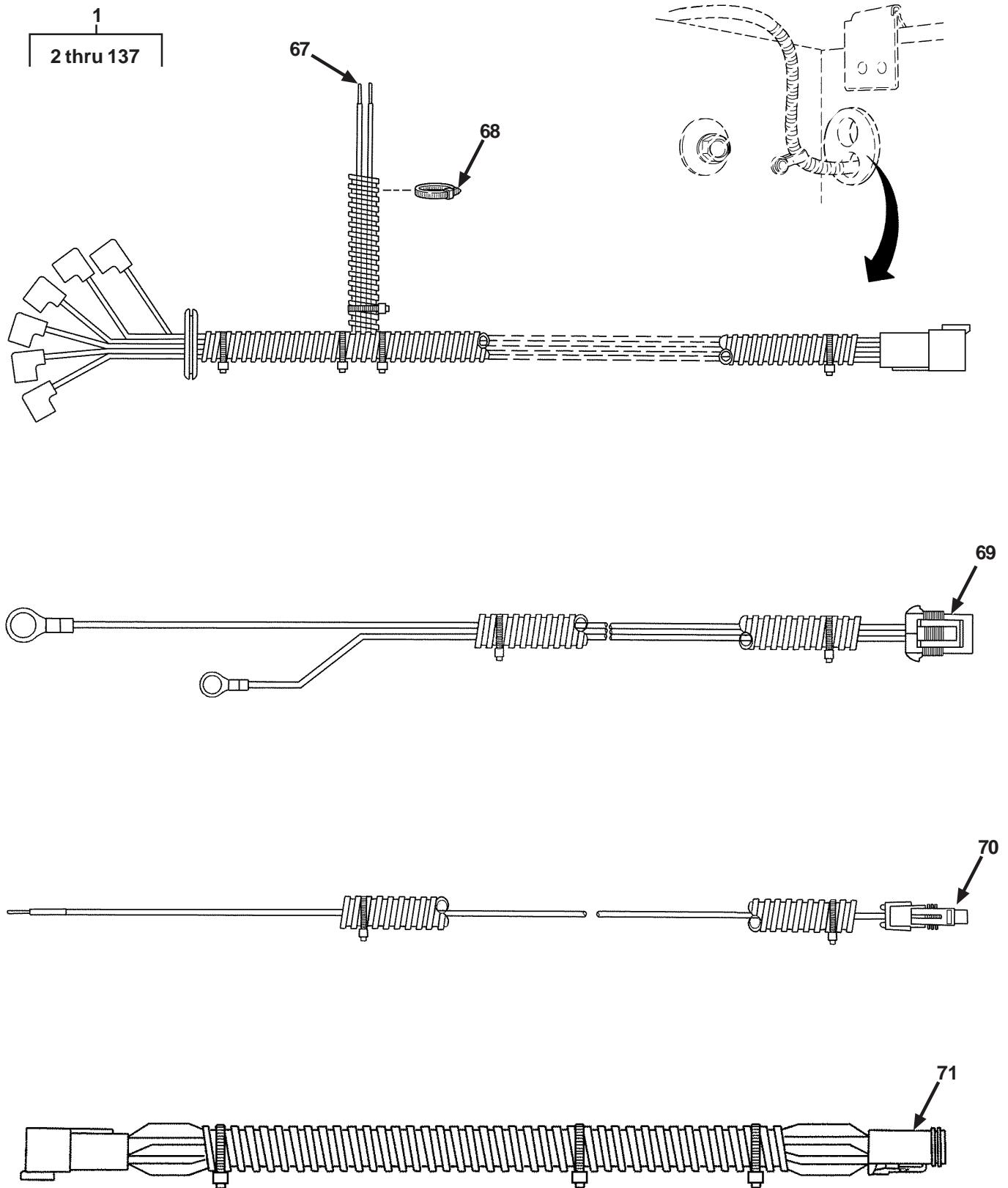


Figure 12. Air Conditioner Kit for M1097A2 Two-Door with O’Gara Hess Armor with Pre-Litens/Litens (Sheet 3 of 7)

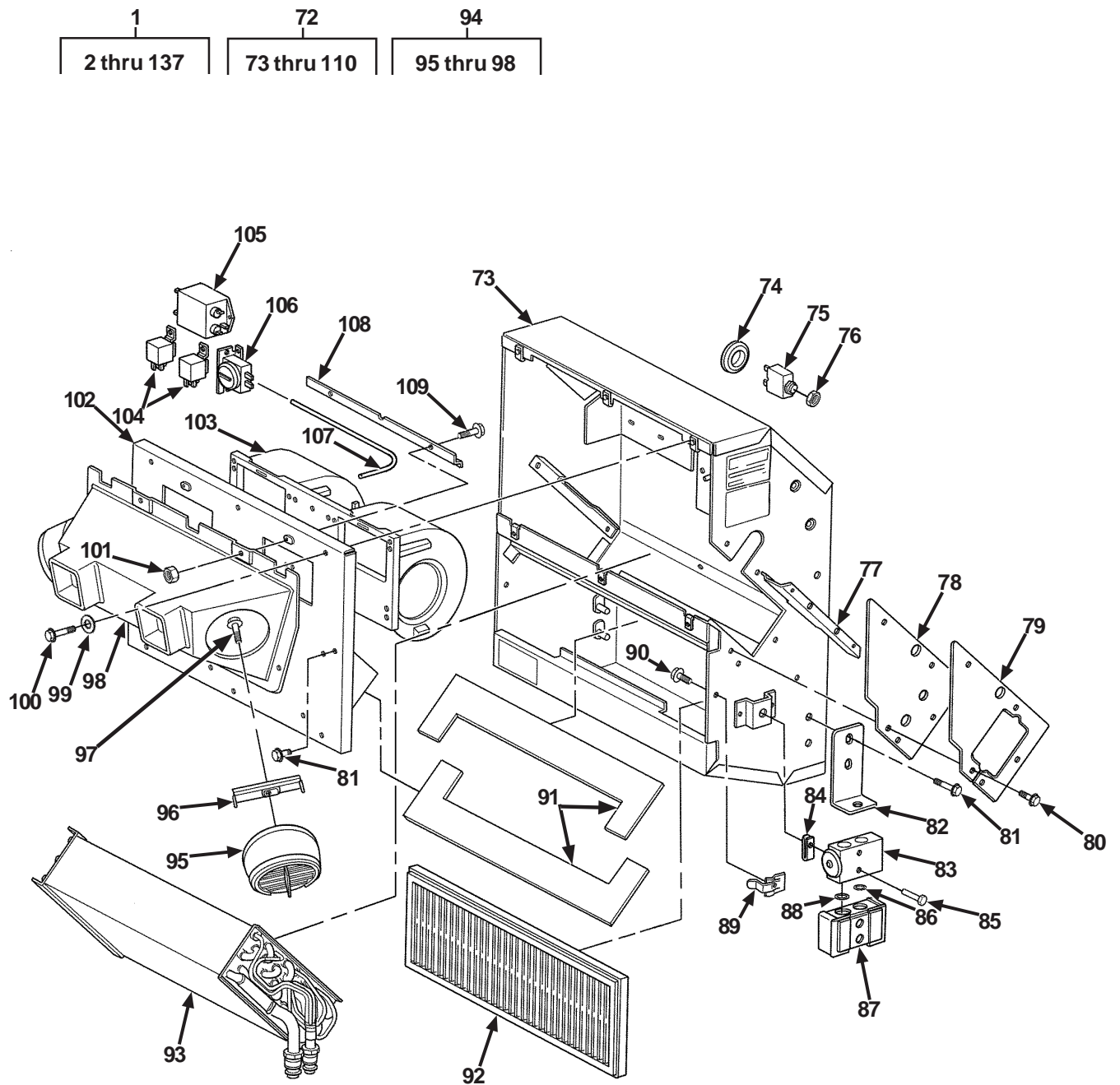


Figure 12. Air Conditioner Kit for M1097A2 Two-Door with O'Gara Hess Armor with Pre-Litens/Litens  
(Sheet 4 of 7)

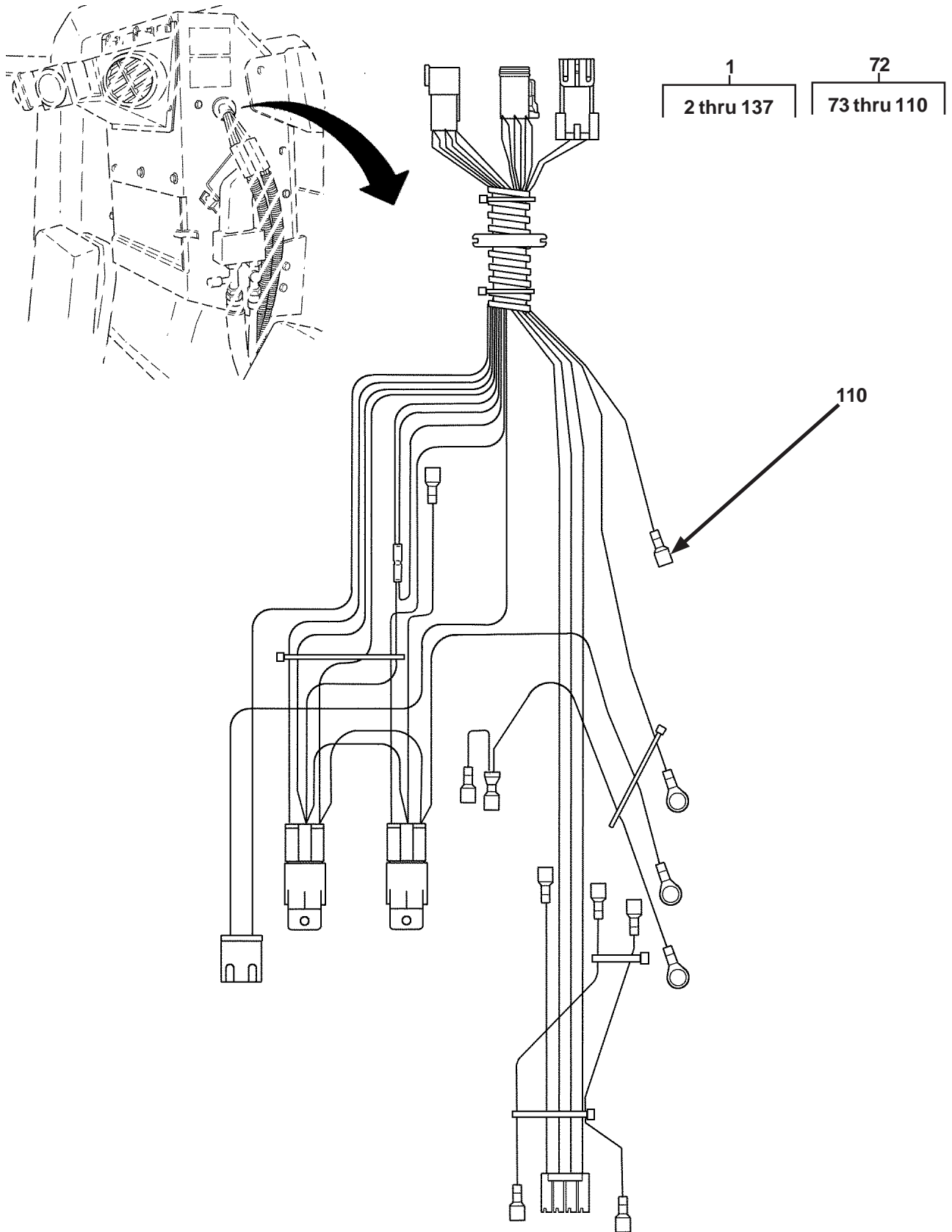


Figure 12. Air Conditioner Kit for M1097A2 Two-Door with O’Gara Hess Armor with Pre-Litens/Litens (Sheet 5 of 7)



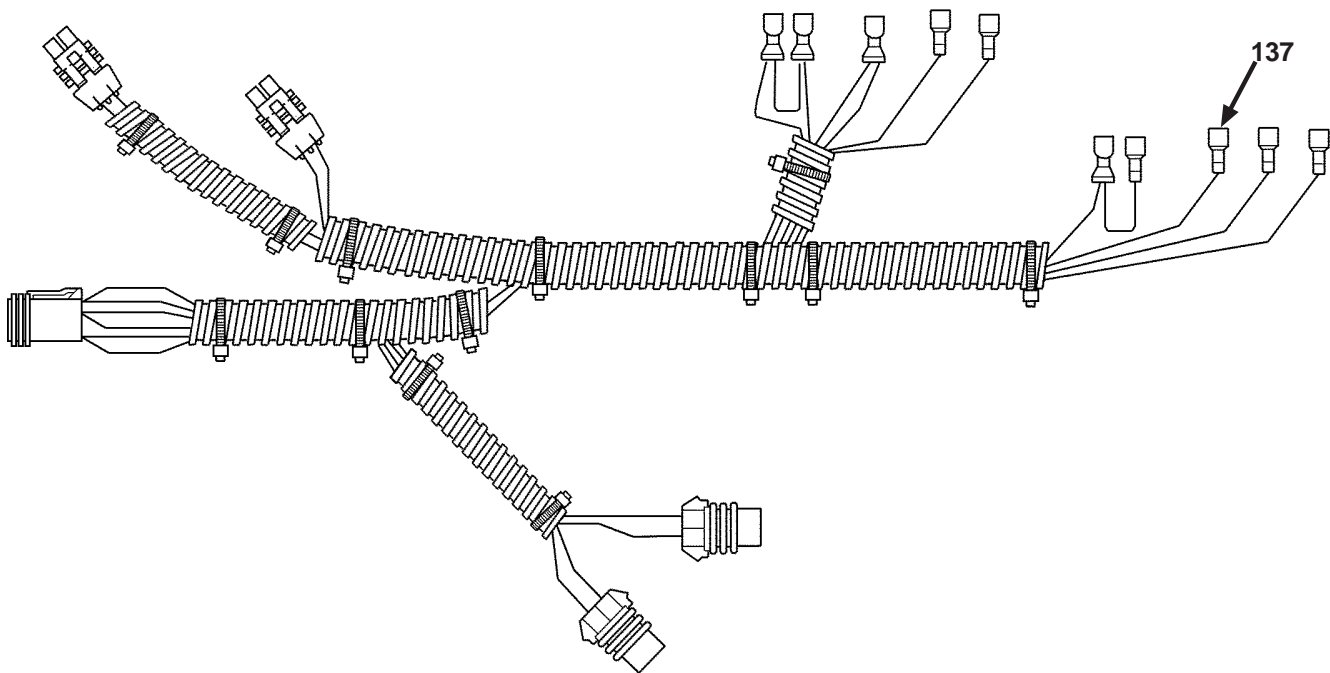
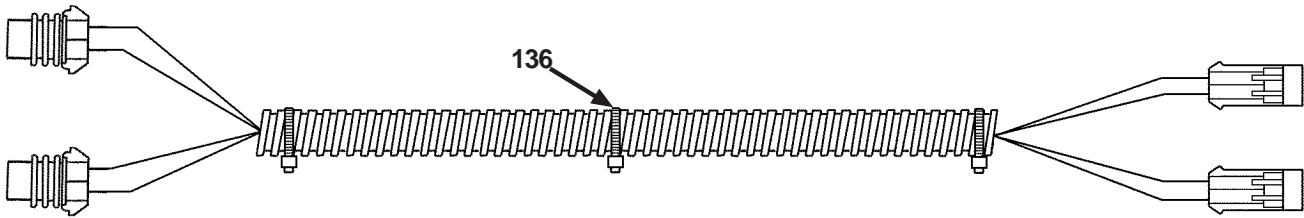
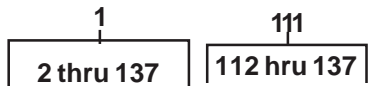


Figure 12. Air Conditioner Kit for M1097A2 Two-Door with O’Gara Hess Armor with Pre-Litens/Litens (Sheet 7 of 7)



## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 3307 SPECIAL PURPOSE KITS FIG. 12 AIR CONDITIONER KIT FOR M1097A2 TWO-DOOR WITH O'GARA HESS ARMOR WITH PRE-LITENS/LITENS	
1	PAOOO	4130015306596	62534	RD-2-4441-0	PARTS KIT,AIR CONDITIONER . . . . .	1
					UOC:BVY	
2	PAOZZ	5340015298292	62534	RD-2-4427-0	.BRACKET,MOUNTING . . . . .	1
					UOC:BVY	
3	PAOZZ	5340015297702	62534	RD-4-6065-0	.BRACKET,MOUNTING . . . . .	1
					UOC:BVY	
4	PAOZZ	TBD	62534	RD-5-11682-0	.WASHER . . . . .	46
					UOC:BVY	
5	PAOZZ	TBD	62534	RD-5-11676-0	.BOLT . . . . .	8
				1.500	UOC:BVY	
6	PAOZZ	5930015238574	62534	RD-5-11446-0P	.SWITCH,PRESSURE . . . . .	1
					UOC:BVY	
7	PAOZZ	5305015232459	62534	RD-5-5351-1-25	.SCREW,CAP,HEXAGON HEAD . . . . .	8
					UOC:BVY	
8	PAOZZ	TBD	62534	RD-5-11678-0	.NUT . . . . .	22
					UOC:BVY	
9	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT . . . . .	8
				1.250	UOC:BVY	
10	PAOZZ	5340015299064	62534	RD-4-6075-0	.BRACKET,MOUNTING . . . . .	1
					UOC:BVY	
11	PAOZZ	TBD	62534	RD-4-6073-0	.BACKING PLATE BOTTOM CONDENSER SUPPORT . . . . .	4
					UOC:BVY	
12	PAOZZ	2540015217737	62534	RD-2-4158-0P	.CONTROL BOX,ELECTRICAL . . . . .	1
					UOC:BVY	
13	PAOZZ	5305015249553	62534	RD-5-6675-0-	.SCREW,MACHINE . . . . .	4
				1.000	UOC:BVY	
14	PAOZZ	TBD	62534	RD-5-11676-0-	.BOLT . . . . .	6
				1.750	UOC:BVY	
15	PAOZZ	5340015295529	62534	RD-4-6081-0	.BRACKET,MOUNTING . . . . .	1
					UOC:BVY	
16	PAOZZ	5331015249812	62534	RD-5-11016-0P	.O-RING #8 . . . . .	2
					UOC:BVY	
17	PAOZZ	4730015254521	62534	RD-5-10522-0P	.ELBOW,TUBE #8 90° FEMALE . . . . .	2
					UOC:BVY	
18	PAOZZ	4720015254326	62534	RD-5-10710-0P	.HOSE,NONMETALLIC #8 CAGE . . . . .	2
					UOC:BVY	
19	PAOZZ	4720015250347	62534	RD-5-10714-0P	.HOSE,NONMETALLIC #8 CLIP . . . . .	4
					UOC:BVY	
20	PAOZZ	4720015239231	62534	RD-5-10504-	.HOSE,METALLIC #6 REFRIG . . . . .	1
				600P	UOC:BVY	
21	PAOZZ	5331015251903	62534	RD-5-11015-0P	.O-RING #6 . . . . .	2
					UOC:BVY	
22	PAOZZ	4730015298151	62534	RD-5-11672-0	.ADAPTER,STRAIGHT #6 . . . . .	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
23	PAOZZ	4720015251960	62534	RD-5-10709-0P	UOC:BVY .HOSE, NONMETALLIC #6 CAGE	2
24	PAOZZ	4720015249153	62534	RD-5-10713-0P	UOC:BVY .HOSE, NONMETALLIC #6 CLIP	4
25	PAOZZ	4730015233729	62534	RD-5-6600-0P	UOC:BVY .GROMMET, NONMETALLIC	4
26	PAOZZ	4720015235941	62534	RD-5-10505-600P	UOC:BVY .HOSE, NONMETALLIC #8 REFRIG	1
27	PAOZZ	4720015233955	62534	RD-5-10507-600P	UOC:BVY .HOSE, NONMETALLIC #12 REFRIG	1
28	PAOZZ	3990015234851	62534	RD-5-6326-0P	UOC:BVY .TIE DOWN, CARGO, VEHICLE	1
29	PAOZZ	4730015249089	62534	RD-5-10716-0P	UOC:BVY .CLAMP, HOSE #12 CLIP	4
30	PAOZZ	4720015248886	62534	RD-5-10712-0P	UOC:BVY .HOSE, NONMETALLIC #12 CAGE	2
31	PAOZZ	4730015239527	62534	RD-5-10574-0P	UOC:BVY .REDUCER, PIPE #10/#12 90° MALE	1
32	PAOZZ	5331015247872	62534	RD-5-11017-0P	UOC:BVY .O-RING #10	2
33	PAOZZ	TBD	62534	RD-2-4429-0	UOC:BVY .BACKING PLATE BOTTOM BRACKET	3
34	PAOZZ	5340015298143	62534	RD-2-4428-0	UOC:BVY .BRACKET, MOUNTING	1
35	PAOZZ	5305015298296	62534	RD-5-8222-1-22	UOC:BVY .SCREW, CAP, HEXAGON HEAD	2
36	PAOZZ	4730015299380	62534	RD-5-4400-0	UOC:BVY .CLAMP, HOSE	2
37	PAOZZ	5340015299047	62534	RD-3-11866-1	UOC:BVY .BRACKET, MOUNTING	2
38	PAOZZ	4730015236296	62534	RD-5-10525-0P	UOC:BVY .ELBOW, TUBE TO HOSE #10 TO #12 90° FEMALE	1
39	PAOZZ	4730015234097	62534	RD-5-5901-0P	UOC:BVY .PLUG, TUBE FITTING, THREADED	2
40	PAOZZ	TBD	62534	RD-5-6532-13	UOC:BVY .HOSE, DRAIN	2
41	PAOZZ	5325015299543	62534	RD-5-3861-0	UOC:BVY .GROMMET, NONMETALLIC	1
42	PAOZZ	TBD	62534	RD-5-6666-0	UOC:BVY .CLAMP, LOOP	2
43	PAOZZ	4730015205375	62534	RD-5-7196-0	UOC:BVY .UNION, PIPE TO HOSE	2
44	PAOZZ	2540015268372	62534	RD-2-4162-0	UOC:BVY .VENTILATOR, AIR CIRCULATING	2
45	PAOZZ	4730015251956	62534	RD-5-10537-0P	UOC:BVY .ELBOW, TUBE #6 90° MALE	1
46	PAOZZ	4130015217816	62534	RD-5-11393-0P	UOC:BVY .COMPRESSOR, REFRIGERATION 24V 2A JD	1
47	PAOZZ	5340015297711	62534	RD-9-10008-0	UOC:BVY .BRACKET, MOUNTING	1

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
48	PAOZZ	5305015297949	62534	RD-5-6250-0-40	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	4
49	PAOZZ	5310015232651	62534	RD-5-11392-0	UOC:BVY .NUT,SELF-LOCKING,HEXAGON .....	1
50	PAOZZ	5310015259051	62534	RD-5-6260-0	UOC:BVY .WASHER,FLAT 1/4 .....	2
51	PAOZZ	5305015260983	62534	RD-5-6141-0- 130	UOC:BVY .SCREW,MACHINE .....	1
52	PAOZZ	5340015295527	62534	RD-9-10006-0	UOC:BVY .BRACKET,MOUNTING .....	1
53	PAOZZ	5310015264993	62534	RD-5-6139-0	UOC:BVY .WASHER,LOCK .....	4
54	PAOZZ	5305015298457	62534	RD-5-6141-0-25	UOC:BVY .SCREW,MACHINE .....	1
55	PAOZZ	5307015295644	62534	RD-5-11397-0- 35-30	UOC:BVY .STUD,PLAIN M10X1.50 HEX .....	1
56	PAOZZ	5307015297212	62534	RD-5-11397-0- 30-20	UOC:BVY .STUD,PLAIN M10X1.50 HEX .....	1
57	PAOZZ	5305015297316	62534	RD-5-6250-0-35	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	1
58	PAOZZ	3020015298066	62534	RD-9-10054-0	UOC:BVY .PULLEY,GROOVE 8 .....	1
59	PAOZZ	5310015258620	62534	RD-5-9377-0	UOC:BVY .NUT,SELF-LOCKING,HEXAGON .....	7
60	PAOZZ	5306015297375	62534	RD-5-11390-0- 2.250	UOC:BVY .BOLT,MACHINE .....	1
61	PAOZZ	3030015242451	62534	RD-5-11396-0P	UOC:BVY .BELT,V A2 PRE-LITENS .....	1
62	PAOZZ	5305015295657	62534	RD-5-6250-0-60	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	1
63	PAOZZ	TBD	62534	RD-9-10034-0	UOC:BVY .ARM,ADJUSTING COMPRESSOR ASSY .....	1
64	PAOZZ	5340015297655	62534	RD-9-10036-0	UOC:BVY .BRACKET,MOUNTING .....	1
65	PAOZZ	5305015298139	62534	RD-5-6250-0-50	UOC:BVY .SCREW,CAP,HEXAGON HEAD .....	2
66	PAOZZ	3030015242460	62534	RD-5-11792-0P	UOC:BVY .BELT,V A2 LITENS .....	1
67	PAOZZ	6150015217661	62534	RD-2-4156-0P	UOC:BVY .WIRING HARNESS,BRANCHED CONTROL PANEL .....	1
68	PAOZZ	5975015249811	62534	RD-5-4137-0M	UOC:BVY .STRAP,TIEDOWN,ELECTRICAL COMPONENTS .....	10
69	PAOZZ	6150015253955	62534	RD-2-4163-0P	UOC:BVY .WIRING HARNESS BATTERY .....	1
70	PAOZZ	6150015251625	62534	RD-2-4160-0P	UOC:BVY .WIRING HARNESS CLUTCH .....	1
71	PAOZZ	6150015251122	62534	RD-2-4244-0P	UOC:BVY .WIRING HARNESS JUMPER .....	1

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
72	PAOOO	4120015306339	62534	RD-2-4243-0	.AIR CONDITIONER (SERVICE PARTS R-2400-1) ..... UOC:BVY	1
73	PAOZZ	5340015238425	62534	RD-2-4116-0	..COVER,ACCESS ..... UOC:BVY	1
74	PAOZZ	5325015248831	62534	RD-5-4053-0P	..GROMMET,NONMETALLIC ..... UOC:BVY	1
75	PAOZZ	5925015217620	62534	RD-5-11437-0P	..CIRCUIT BREAKER 30 AMP ..... UOC:BVY	1
76	PAOZZ	5310015252737	62534	RD-5-4133-0M	..NUT,PLAIN,HEXAGON 7/16-28 ..... UOC:BVY	1
77	PAOZZ	5340015232793	62534	RD-2-4122-0P	..STRAP,RETAINING ..... UOC:BVY	1
78	PAOZZ	5330015233722	62534	RD-2-4136-0P	..GASKET ..... UOC:BVY	1
79	PAOZZ	5340015233992	62534	RD-2-4128-0P	..PLATE,RETAINING,SEAL ..... UOC:BVY	1
80	PAOZZ	5305015242260	62534	RD-5-7213-1- .375	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	14
81	PAOZZ	5305015232459	62534	RD-5-5351-1-25	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	4
82	PAOZZ	5340015241893	62534	RD-2-4142-0	..BRACKET,ANGLE ..... UOC:BVY	2
83	PAOZZ	4820015177304	62534	RD-5-11438-0P	..VALVE,EXPANSION R134a 2 TON ..... UOC:BVY	1
84	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT,CLIP M6 ..... UOC:BVY	1
85	PAOZZ	5305015179757	62534	RD-5-5743-0-40	..SCREW,ASSEMBLED WASHER ..... UOC:BVY	2
86	PAOZZ	5331015249812	62534	RD-5-11016-0P	..O-RING #8 ..... UOC:BVY	1
87	PAOZZ	5340015242263	62534	RD-5-8410-0	..COVER,ACCESS ..... UOC:BVY	1
88	PAOZZ	5331015247872	62534	RD-5-11017-0P	..O-RING #10 ..... UOC:BVY	1
89	PAOZZ	5340015178600	62534	RD-5-6239-0	..CLIP,SPRING,TENSION ..... UOC:BVY	2
90	PAOZZ	5320015205086	62534	RD-5-5345-0	..RIVET,BLIND ..... UOC:BVY	2
91	PAOZZ	5330015233964	62534	RD-2-4149-0P	..GASKET ..... UOC:BVY	2
92	PAOZZ	4130015217486	62534	RD-2-4132-0P	..FILTER ELEMENT,AIR CONDITIONING .... UOC:BVY	1
93	PAOZZ	4130015216442	62534	RD-2-4129-0P	..EVAPORATOR COIL,REFRIGERATION ..... UOC:BVY	1
94	PAOOO	2540015217709	62534	RD-2-4169-0P	..DUCT ASSEMBLY,AIR CONDITIONING ..... UOC:BVY	1
95	PAOZZ	2540015360012	62534	RD-5-5223-2	...DIFFUSER,AIR,HEATING AND VENTILATING ..... UOC:BVY	2
96	PAOZZ	4520015324463	62534	RD-2-4131-0P	...RETAINER-DIFFUSER ..... UOC:BVY	2

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
97	PAOZZ	5305015252716	62534	RD-5-5260-0- .750M	...SCREW,ASSEMBLED WASHER ..... UOC:BVY	1
98	PAOZZ	2540015360113	62534	RD-2-4152-0P	...DUCT ASSEMBLY,AIR CONDITIONING- HEATING,VEHICULAR ..... UOC:BVY	1
99	PAOZZ	5310015179281	62534	RD-5-4556-1	..SCREW,ASSEMBLED WASHER ..... UOC:BVY	6
100	PAOZZ	5305015231947	62534	RD-5-10825-1- 16	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	6
101	PAOZZ	5310015231558	62534	RD-5-4544-0	..NUT,SELF-LOCKING,HEXAGON ..... UOC:BVY	2
102	PAOZZ	5340015231985	62534	RD-2-4126-0P	..COVER,ACCESS ..... UOC:BVY	1
103	PAOZZ	4140015218532	62534	RD-5-11436-0P	..FAN,CENTRIFUGAL 24V ..... UOC:BVY	1
104	PAOZZ	5945015229738	62534	RD-5-4417-0P	..RELAY,ELECTROMAGNETIC ..... UOC:BVY	2
105	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY,ELECTRICAL ..... UOC:BVY	1
106	PAOZZ	6685015174892	62534	RD-5-11440-0P	..THERMOSTAT,FLOW CONTROL ..... UOC:BVY	1
107	PAOZZ	4710015230548	62534	RD-5-3816-16P	..TUBE,BENT,METALLIC 1/8 I.D. .... UOC:BVY	1
108	PAOZZ	5340015233993	62534	RD-2-4150-0P	..BRACKET,MOUNTING ..... UOC:BVY	1
109	PAOZZ	5305015231009	62534	RD-5-5630-1- 20M	..SCREW,CAP,HEXAGON HEAD ..... UOC:BVY	2
110	PAOZZ	6150015214634	62534	RD-2-4153-0P	..WIRING HARNESS AIR CONDITIONER .... UOC:BVY	1
111	PAOOO	4130015306117	62534	RD-4-6082-0	..CONDENSER,FRAME ASSEMBLY ..... UOC:BVY	1
112	PAOZZ	5970015233109	62534	RD-5-7357-8.5P	..INSULATION SLEEVING,ELECTRICAL .... UOC:BVY	2
113	PAOZZ	4140015216422	62534	RD-5-8785-3P	..FAN,CIRCULATING 24V ..... UOC:BVY	2
114	PAOZZ	5305015231683	62534	RD-5-8980-1- 20	..SCREW,MACHINE ..... UOC:BVY	8
115	PAOZZ	5306015231006	62534	RD-5-11390-0- 1.500M	..BOLT,MACHINE ..... UOC:BVY	6
116	PAOZZ	5310015233710	62534	RD-5-11388-0	..WASHER,FLAT ..... UOC:BVY	12
117	PAOZZ	5340015244491	62534	RD-4-59140P	..COVER,ACCESS ..... UOC:BVY	1
118	PAOZZ	2510015233670	62534	RD-4-59220P	..FRAME,STRUCTURAL,VEHICULAR ..... UOC:BVY	1
119	PAOZZ	5305015179283	62534	RD-5-8222-1- 16	..SCREW,ASSEMBLED WASHER ..... UOC:BVY	8
120	PAOZZ	4130015215757	62534	RD-4-5857-0P	..CONDENSER COIL,REFRIGRATION ..... UOC:BVY	1
121	PAOZZ	2510015299425	62534	RD-46068-0	..FRAME SECTION,STRUCTURAL, VEHICUALR ..... UOC:BVY	1

## SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
122	PAOZZ	5310015232651	62534	RD-5-11392-0	..NUT, SELF-LOCKING, HEXAGON UOC:BVY	6
123	PAOZZ	TBD	62534	RD-5-7212-1- .375	..SCREW UOC:BVY	4
124	PAOZZ	5340015232408	62534	RD-4-5886-0P	..COVER, ACCESS UOC:BVY	2
125	PAOZZ	5915015216706	62534	RD-5-11445-0P	..FILTER ASSEMBLY, ELECTRICAL UOC:BVY	2
126	PAOZZ	5330015233709	62534	RD-4-5947-0P	..GASKET UOC:BVY	1
127	PAOZZ	TBD	62534	RD-5-5679-0P	..NUT, CLIP M6 UOC:BVY	4
128	PAOZZ	5340015251931	62534	RD-4-5968-0P	..PLATE, MOUNTING UOC:BVY	1
129	PAOZZ	5305015298296	62534	RD-5-8222-1- 22	..SCREW, CAP, HEXAGON HEAD UOC:BVY	4
130	PAOZZ	4720015297878	62534	RD-4-5983-1	..HOSE ASSEMBLY, METALLIC #6 90° FEMALE UOC:BVY	1
131	PAOZZ	4730015299380	62534	RD-5-4400-0	..CLAMP HOSE UOC:BVY	2
132	PAOZZ	2510015233685	62534	RD-4-5921-0P	..FRAME, STRUCTURAL, VEHICULAR UOC:BVY	1
133	PAOZZ	4730015265020	62534	RD-5-4035-52	..CLAMP, HOSE UOC:BVY	2
134	PAOZZ	4130015215745	62534	RD-5-11435-0P	..RECEIVER, LIQUID REFRIGERANT UOC:BVY	1
135	PAOZZ	5930015247887	62534	RD-5-11064-0P	..SWITCH, PRESSURE UOC:BVY	1
136	PAOZZ	3040015298665	62534	RD-4-6076-0	..EXTENSION, SHAFT WIRING HARNESS UOC:BVY	1
137	PAOZZ	6150015215712	62534	RD-4-5913-0P	..WIRING HARNESS, BRANCHED CONDENSER UOC:BVY	1

END OF FIGURE



No Special Tools Required.

Figure 13. Special Tools List.



**SECTION III**

**TB 9-2510-251-13**

(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SMR			PART		
NO	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
					GROUP 26 TOOLS AND TEST EQUIPMENT	
					GROUP 2604 SPECIAL TOOLS	
					FIG. 13 SPECIAL TOOLS LIST	

NO SPECIAL TOOLS REQUIRED.

END OF FIGURE



CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-2-4115	TBD	1	72
			2	73
			3	76
			4	82
			5	73
			6	73
			7	79
62534	RD-2-4116-0	5340-01-523-8425	1	75
			2	76
			3	79
			4	85
			5	76
			6	76
			7	82
			8	71
			9	66
			10	66
			11	66
			12	73
62534	RD-2-4122-0P	5340-01-523-2793	1	80
			2	81
			3	84
			4	90
			5	81
			6	81
			7	87
			8	75
			9	70
			10	70
			11	70
			12	77
62534	RD-2-4126-0P	5340-01-523-1985	1	104
			2	105
			3	108
			4	114
			5	105
			6	105
			7	111
			8	100
			9	95
			10	95
			11	95
			12	102
62534	RD-2-4128-0P	5340-01-523-3992	1	82
			2	83
			3	86

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CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO			
62534	RD-2-4128-0P	5340-01-523-3992	4	92			
			5	83			
			6	83			
			7	89			
			8	77			
			9	72			
			10	72			
			11	72			
			12	79			
			62534	RD-2-4129-0P	4130-01-521-6442	1	95
						2	96
						3	99
4	105						
5	96						
6	96						
7	102						
8	91						
9	86						
10	86						
11	86						
12	93						
62534	RD-2-4131-0P	4520-01-532-4463	1	98			
			2	99			
			3	102			
			4	108			
			5	99			
			6	99			
			7	105			
			8	94			
			9	89			
			10	89			
			11	89			
			12	96			
62534	RD-2-4132-0P	4130-01-521-7486	1	94			
			2	95			
			3	98			
			4	104			
			5	95			
			6	95			
			7	101			
			8	90			
			9	85			
			10	85			
			11	85			
			12	92			
62534	RD-2-4136-0P	5330-01-523-3722	1	81			

CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-2-4136-0P	5330-01-523-3722	2	82
			3	85
			4	91
			5	82
			6	82
			7	88
			8	76
			9	71
			10	71
			11	71
			12	78
			62534	RD-2-4140-0
2	66			
3	38			
4	38			
5	66			
6	66			
7	72			
62534	RD-2-4142-0	5340-01-524-1893	1	84
			2	85
			3	88
			4	94
			5	84
			6	84
			7	90
			8	80
			9	75
			10	75
			11	75
			12	82
62534	RD-2-4149-0P	5330-01-523-3964	1	93
			2	94
			3	97
			4	103
			5	94
			6	94
			7	100
			8	89
			9	84
			10	84
			11	84
			12	91
62534	RD-2-4150-0P	5340-01-523-3993	1	110
			2	111
			3	114
			4	120

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CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO			
62534	RD-2-4150-0P	5340-01-523-3993	5	111			
			6	111			
			7	117			
			8	106			
			9	101			
			10	101			
			11	101			
			12	108			
			62534	RD-2-4152-0P	2540-01-536-0113	1	100
						2	101
						3	104
						4	110
5	101						
6	101						
7	107						
8	96						
9	91						
10	91						
11	91						
12	98						
62534	RD-2-4153-0P	6150-01-521-4634	1	112			
			2	113			
			3	116			
			4	122			
			5	113			
			6	113			
			7	119			
			8	108			
			9	103			
			10	103			
			11	103			
			12	110			
62534	RD-2-4156-0P	6150-01-521-7661	1	67			
			2	68			
			3	71			
			4	77			
			5	68			
			6	68			
			7	74			
			8	65			
			9	60			
			10	60			
			11	60			
			12	67			
62534	RD-2-4158-0P	2540-01-521-7737	1	51			
			2	52			

CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO			
62534	RD-2-4158-0P	2540-01-521-7737	3	50			
			4	50			
			5	52			
			6	52			
			7	58			
			8	12			
			9	44			
			10	44			
			11	44			
			12	12			
			62534	RD-2-4160-0P	6150-01-525-1625	1	69
						2	70
3	73						
4	79						
5	70						
6	70						
7	76						
8	68						
9	63						
10	63						
11	63						
62534	RD-2-4162-0	2540-01-526-8372				12	70
			1	64			
			2	65			
			3	69			
			4	55			
			5	65			
			6	65			
			7	71			
			8	21			
			9	38			
			10	38			
			11	38			
62534	RD-2-4163-0P	6150-01-525-3955	12	44			
			1	70			
			2	71			
			3	74			
			4	80			
			5	71			
			6	71			
			7	77			
			8	67			
			9	62			
			10	62			
			11	62			
12	69						

## SECTION IV

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CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-2-4165-1	5340-01-525-8155	8	19
62534	RD-2-4167-1	5340-01-525-8661	3	68
			4	54
			8	23
62534	RD-2-4169-0P	2540-01-521-7709	1	96
			2	97
			3	100
			4	106
			5	97
			6	97
			7	103
			8	92
			9	87
			10	87
			11	87
			12	94
62534	RD-2-4207-1P	5340-01-524-8857	8	15
62534	RD-2-4208-1P	5340-01-525-1952	8	17
62534	RD-2-4214-1P	5340-01-524-9120	8	38
62534	RD-2-4216-1P	5340-01-525-3875	8	31
62534	RD-2-4219-0P	5340-01-523-1682	1	57
			2	58
			3	45
			4	45
			5	58
			6	58
			7	64
62534	RD-2-4220-0P	5340-01-523-3707	1	66
			2	67
			3	37
			4	37
			5	67
			6	67
			7	73
62534	RD-2-4221-0P	5340-01-523-3961	1	53
			2	54
			3	15
			4	15
			5	54
			6	54
			7	60
62534	RD-2-4222-0P	5340-01-523-6753	1	74
			2	75
			3	78
			4	84
			5	75



CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-2-4222-0P	5340-01-523-6753	6	75
			7	81
62534	RD-2-4222-1	5340-01-523-1015	1	78
			2	79
			3	82
			4	88
			5	79
			6	79
			7	85
62534	RD-2-4233-0	4130-01-523-3966	1	1
			2	1
			3	1
			4	1
			5	1
			6	1
			7	1
62534	RD-2-4243-0	4120-01-530-6339	8	70
			9	65
			10	65
			11	65
			12	72
62534	RD-2-4244-0P	6150-01-525-1122	8	69
			9	64
			10	64
			11	64
			12	71
62534	RD-2-4250-0	TBD	8	25
62534	RD-2-4399-0	4130-01-530-6880	8	1
62534	RD-2-4427-0	5340-01-529-8292	9	2
			10	2
			11	2
			12	2
62534	RD-2-4428-0	5340-01-529-8143	9	32
			10	32
			11	32
			12	34
62534	RD-2-4429-0	TBD	9	31
			10	31
			11	31
			12	33
62534	RD-2-4441-0	4130-01-530-6596	12	1
62534	RD-2-4448-0P	4130-01-531-1190	9	1
			10	1
			11	1
62534	RD-3-11866-1	5340-01-529-9047	9	41
			10	41

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CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-3-11866-1	5340-01-529-9047	11	41
			12	37
62534	RD-4-5857-0P	4130-01-521-5757	1	121
			2	122
			3	125
			4	131
			5	122
			6	122
			7	128
			8	125
			9	113
			10	113
			11	113
			12	120
62534	RD-4-5875-0P	5340-01-523-2444	1	130
			2	131
			3	134
			4	140
			5	131
			6	131
			7	137
62534	RD-4-5877-0P	4140-01-521-5780	1	113
			2	114
			3	117
			4	123
			5	114
			6	114
			7	120
62534	RD-4-5878-0P	4710-01-523-7739	1	18
			2	18
			3	20
			4	20
			5	18
			6	18
			7	18
62534	RD-4-5879-0P	4710-01-523-3734	1	17
			2	17
			3	36
			4	36
			5	17
			6	17
			7	17
62534	RD-4-5886-0P	5340-01-523-2408	1	126
			2	127
			3	130
			4	136

CROSS REFERENCE INDEXES  
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO			
62534	RD-4-5886-0P	5340-01-523-2408	5	127			
			6	127			
			7	133			
			8	134			
			9	117			
			10	117			
			11	117			
			12	124			
			62534	RD-4-5893-1P	5340-01-524-1884	1	134
						2	135
						3	138
						4	144
5	135						
6	135						
7	141						
62534	RD-4-5899-1P	5340-01-523-6759	1	120			
			2	121			
			3	124			
			4	130			
			5	121			
			6	121			
			7	127			
62534	RD-4-5913-0P	6150-01-521-5712	1	135			
			2	136			
			3	139			
			4	145			
			5	136			
			6	136			
			7	142			
			8	137			
			9	130			
			10	130			
			11	130			
			12	137			
62534	RD-4-59140P	5340-01-524-4491	1	119			
			2	120			
			3	123			
			4	129			
			5	120			
			6	120			
			7	126			
			8	115			
			9	110			
			10	110			
			11	110			
			12	117			

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			2	50			
			5	50			
			6	50			
			7	57			
			62534	RD-4-5917-1P	5340-01-523-1579	1	46
						2	47
5	47						
6	47						
7	54						
62534	RD-4-5921-0P	2510-01-523-3685				1	122
						2	123
			3	126			
			4	132			
			5	123			
			6	123			
			7	129			
			8	126			
			9	125			
			10	125			
			11	125			
			12	132			
62534	RD-4-59220P	2510-01-523-3670	1	132			
			2	133			
			3	136			
			4	142			
			5	133			
			6	133			
			7	139			
			8	128			
			9	111			
			10	111			
			11	111			
			12	118			
62534	RD-4-5926-1	4520-01-525-8636	1	25			
			2	26			
			3	32			
			4	32			
			5	26			
			6	26			
			7	26			
62534	RD-4-5946-0	TBD	8	3			
62534	RD-4-5947-0P	5330-01-523-3709	1	127			
			2	128			
			3	131			
			4	137			

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO			
62534	RD-4-5947-0P	5330-01-523-3709	5	128			
			6	128			
			7	134			
			8	136			
			9	119			
			10	119			
			11	119			
			12	126			
			62534	RD-4-5948-0	5340-01-529-7347	8	118
			62534	RD-4-5949-0P	5340-01-524-8775	3	30
						4	30
			62534	RD-4-5951-0P	5340-01-525-1963	1	133
2	134						
3	137						
4	143						
5	134						
6	134						
7	140						
62534	RD-4-5952-1P	5340-01-525-9799	8	11			
62534	RD-4-5958-0	6150-01-533-0936	8	120			
			1	71			
62534	RD-4-5958-0	6150-01-533-0936	2	72			
			3	75			
			4	81			
			5	72			
			6	72			
			7	78			
			62534	RD-4-5961-1P	5340-01-524-8858	8	133
62534	RD-4-5968-0P	5340-01-525-1931	1	129			
			2	130			
			3	133			
			4	139			
			5	130			
			6	130			
			7	136			
			9	121			
			10	121			
			11	121			
			12	128			
			62534	RD-4-5969-0	5340-01-523-3687	3	2
62534	RD-4-5970-0	4130-01-530-6336	4	2			
			8	109			
62534	RD-4-5972-1P	5340-01-525-1253	8	4			
			8	116			
62534	RD-4-5983-1	4720-01-529-7878	8	124			
			9	123			

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62534	RD-4-5983-1	4720-01-529-7878	10	123
			11	123
			12	130
62534	RD-4-6065-0	5340-01-529-7702	9	3
			10	3
			11	3
62534	RD-46068-0	2510-01-529-9425	12	3
			9	114
			10	114
62534	RD-4-6073-0	TBD	11	114
			12	121
			9	11
62534	RD-4-6075-0	5340-01-529-9064	10	11
			11	11
			12	11
62534	RD-4-6076-0	3040-01-529-8665	9	10
			10	10
			11	10
62534	RD-4-6077-0	TBD	12	10
			9	129
			10	129
62534	RD-4-6081-0	5340-01-529-5529	11	129
			12	136
			8	2
62534	RD-4-6082-0	4130-01-530-6117	9	13
			10	13
			11	13
62534	RD-5-10504-600P	4720-01-523-9231	12	15
			9	104
			10	104
62534	RD-5-10505-600P	4720-01-523-5941	11	104
			12	111
			1	12
			2	12
			3	19
			4	19
			5	12
			6	12
			7	12
			8	30
			9	18
			10	18
62534	RD-5-10505-600P	4720-01-523-5941	11	18
			12	20
62534	RD-5-10505-600P	4720-01-523-5941	1	11
			2	11

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62534	RD-5-10505-600P	4720-01-523-5941	3	35			
			4	35			
			5	11			
			6	11			
			7	11			
			8	37			
			9	24			
			10	24			
			11	24			
			12	26			
			62534	RD-5-10507-600P	4720-01-523-3955	1	6
						2	6
3	44						
4	44						
5	6						
6	6						
7	6						
8	44						
9	25						
10	25						
11	25						
62534	RD-5-10510-0P	4730-01-523-7227				12	27
			1	8			
			2	8			
			5	8			
			6	8			
			7	8			
			62534	RD-5-10516-0P	4730-01-524-5104	2	3
						7	3
			62534	RD-5-10517-0P	4730-01-523-4950	1	44
						2	45
						3	9
						5	45
6	45						
62534	RD-5-10520-0P	4730-01-523-8622				1	3
62534	RD-5-10522-0P	4730-01-525-4521	2	21			
			3	10			
			4	10			
			5	3			
			5	21			
			6	3			
			6	21			
			7	21			
			4	9			
			7	31			
			8	33			

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62534	RD-5-10522-0P	4730-01-525-4521	9	15			
			10	15			
			11	15			
			12	17			
62534	RD-5-10525-0P	4730-01-523-6296	1	43			
			2	44			
			3	66			
			4	52			
			5	44			
			6	44			
			7	30			
			8	59			
			9	40			
			10	40			
			11	40			
			12	38			
62534	RD-5-10537-0P	4730-01-525-1956	8	27			
			9	39			
			10	39			
			11	39			
62534	RD-5-10541-0P	4730-01-524-7449	12	45			
			8	40			
			62534	RD-5-10574-0P	4730-01-523-9527	1	14
						2	14
						3	41
						4	41
						5	14
						6	14
						7	14
						9	28
						10	28
						11	28
12	31						
62534	RD-5-10705-0P	4730-01-525-0178				8	43
62534	RD-5-10709-0P	4720-01-525-1960	1	4			
			2	4			
			3	12			
			4	12			
			5	4			
			6	4			
			7	4			
			8	28			
			9	21			
			10	21			
			11	21			
			12	23			



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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-5-10710-0P	4720-01-525-4326	1	9
			2	9
			3	11
			4	11
			5	9
			6	9
			7	9
			8	34
			9	16
			10	16
			11	16
			62534	RD-5-10712-0P
1	15			
2	15			
3	42			
4	42			
5	15			
6	15			
7	15			
8	41			
9	29			
10	29			
62534	RD-5-10713-0P	4720-01-524-9153		
			12	30
			1	5
			2	5
			3	14
			4	14
			5	5
			6	5
			7	5
			8	29
			9	22
			62534	RD-5-10714-0P
11	22			
12	24			
1	10			
2	10			
3	13			
4	13			
5	10			
6	10			
7	10			
8	35			
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10	17			

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62534	RD-5-10714-0P	4720-01-525-0347	11	17			
			12	19			
62534	RD-5-10716-0P	4730-01-524-9089	1	16			
			2	16			
			3	43			
			4	43			
			5	16			
			6	16			
			7	16			
			8	42			
			9	30			
			10	30			
			11	30			
			12	29			
62534	RD-5-10818-0	5310-01-525-8946	1	59			
			2	60			
			3	6			
			4	6			
			5	60			
			6	60			
			7	66			
			8	10			
			8	123			
			62534	RD-5-10825-1-16	5305-01-523-1947	1	102
						2	103
						3	106
4	112						
5	103						
6	103						
7	109						
8	20						
8	98						
9	93						
10	93						
11	93						
62534	RD-5-11015-0P	5331-01-525-1903	12	100			
			1	2			
			2	2			
			3	8			
			4	8			
			5	2			
			6	2			
			7	2			
			8	26			
			9	19			
			10	19			

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-5-11015-0P	5331-01-525-1903	11	19
			12	21
62534	RD-5-11016-0P	5331-01-524-9812	1	7
			1	88
			2	7
			2	89
			3	7
			3	92
			4	7
			4	98
			5	7
			5	89
			6	7
			6	89
			7	7
			7	95
			8	32
			8	84
			9	14
			9	79
			10	14
			10	79
11	14			
11	79			
12	16			
12	86			
62534	RD-5-11017-0P	5331-01-524-7872	1	13
			1	90
			2	13
			2	91
			3	40
			3	94
			4	40
			4	100
			5	13
			5	91
			6	13
			6	91
			7	13
			7	97
8	39			
8	86			
9	27			
9	81			
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62534	RD-5-11017-0P	5331-01-524-7872	11	27
			11	81
			12	32
62534	RD-5-11064-0P	5930-01-524-7887	12	88
			1	20
			2	20
			3	26
			4	26
			5	20
			6	20
			7	20
			8	131
			9	128
			10	128
			11	128
62534	RD-5-11388-0	5310-01-523-3710	12	135
			1	48
			1	118
			2	49
			2	119
			3	17
			3	122
			4	17
			4	128
			5	49
			5	119
			6	49
6	119			
7	56			
7	125			
8	114			
9	109			
10	109			
11	109			
12	116			
62534	RD-5-11389-0	5310-01-526-0689	1	54
			2	55
			3	16
			4	16
			5	55
			6	55
			7	61
			8	8
62534	RD-5-11390-0-1.500M	5306-01-523-1006	1	47
			1	117
			2	48

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-5-11390-0-1.500M	5306-01-523-1006	2	118
			3	121
			3	121
			4	127
			5	48
			5	118
			6	48
			6	118
			7	55
			7	124
			8	7
			8	113
62534	RD-5-11390-0-2.250	5306-01-529-7375	9	108
			10	108
			11	108
62534	RD-5-11390-0-2.500	5306-01-525-8566	12	115
			4	70
62534	RD-5-11392-0	5310-01-523-2651	7	47
			12	60
			1	55
			2	56
			3	18
			4	18
			5	56
			6	56
			7	62
			1	50
			1	131
			2	51
2	132			
3	31			
3	135			
4	31			
4	141			
5	51			
5	132			
6	51			
6	132			
7	36			
7	138			
8	9			
8	121			
9	115			
10	115			
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62534	RD-5-11393-0P	4130-01-521-7816	1	42
			2	43
			3	65
			4	57
			5	43
			6	43
			7	33
			8	58
			9	59
			10	59
			11	59
			12	46
62534	RD-5-11396-0P	3030-01-524-2451	4	71
			7	48
			12	61
62534	RD-5-11397-0-30-20	5307-01-529-7212	4	66
			7	43
			12	56
62534	RD-5-11397-0-35-30	5307-01-529-5644	4	65
			7	42
			12	55
62534	RD-5-11406-0P	3030-01-524-2455	1	41
			2	42
			3	64
			5	42
			6	42
			8	57
			9	58
			10	58
			11	58
62534	RD-5-11409-0P	3020-01-524-2457	1	34
			2	35
			3	57
			5	35
			6	35
			8	56
			9	53
			10	53
			11	53
62534	RD-5-11433-1-20	5305-01-525-8598	1	23
			2	24
			3	34
			4	34
			5	24

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			6	24
			7	24
62534	RD-5-11433-1-20	5305-01-525-8598	8	63
62534	RD-5-11435-0P	4130-01-521-5745	1	21
			2	22
			3	28
			4	28
			5	22
			6	22
			7	22
			8	129
			9	127
			10	127
			11	127
			12	134
62534	RD-5-11436-0P	4140-01-521-8532	1	105
			2	106
			3	109
			4	115
			5	106
			6	106
			7	112
			8	101
			9	96
			10	96
			11	96
			12	103
62534	RD-5-11437-0P	5925-01-521-7620	1	76
			2	77
			3	80
			4	86
			5	77
			6	77
			7	83
			8	73
			9	68
			10	68
			11	68
			12	75
62534	RD-5-11438-0P	4820-01-517-7304	1	85
			2	86
			3	89
			4	95
			5	86
			6	86
			7	92

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62534	RD-5-11438-0P	4820-01-517-7304	10	76
			11	76
			12	83
62534	RD-5-11440-0P	6685-01-517-4892	1	108
			2	109
			3	112
			4	118
			5	109
			6	109
			7	115
			8	104
			9	99
			10	99
			11	99
			12	106
62534	RD-5-11445-0P	5915-01-521-6706	1	107
			1	126
			2	108
			2	127
			3	111
			3	130
			4	117
			4	136
			5	108
			5	127
			6	108
			6	127
			7	114
			7	133
			8	103
			8	135
			9	98
			9	118
			10	98
			10	118
			11	98
			11	118
			12	105
			12	125
62534	RD-5-11446-0P	5930-01-523-8574	1	19
			2	19
			3	27
			4	27
			5	19



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			6	19
			7	19
62534	RD-5-11446-0P	5930-01-523-8574	9	6
			10	6
			11	6
			12	6
62534	RD-5-11672-0	4730-01-529-8151	9	20
			10	20
			11	20
			12	22
62534	RD-5-11676-0-1.250	TBD	9	9
			10	9
			11	9
			12	9
62534	RD-5-11676-0-1.500	TBD	9	5
			10	5
			11	5
			12	5
62534	RD-5-11676-0-1.750	TBD	9	12
			10	12
			11	12
			12	14
62534	RD-5-11678-0	TBD	9	8
			10	8
			11	8
			12	8
62534	RD-5-11682-0	TBD	9	4
			10	4
			11	4
			12	4
62534	RD-5-11792-0P	3030-01-524-2460	4	76
			7	53
			12	66
62534	RD-5-3816-16P	4710-01-523-0548	1	109
			2	110
			3	113
			4	119
			5	110
			6	110
			7	116
			8	105
			9	100
			10	100
			11	100
			12	107
62534	RD-5-3861-0	5325-01-529-9543	9	35

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62534	RD-5-3861-0	5325-01-529-9543	12	41
62534	RD-5-3930-60P	4720-01-523-0403	3	39
			4	39
			8	18
62534	RD-5-4035-52	4730-01-526-5020	1	22
			2	23
			3	29
			4	29
			5	23
			6	23
			7	23
			8	16
			8	132
			9	126
			10	126
			11	126
			12	133
62534	RD-5-4043-0	5310-01-533-4006	1	58
			2	59
			3	5
			4	5
			5	59
			6	59
			7	65
			8	5
			8	122
62534	RD-5-4053-0P	5325-01-524-8831	1	45
			1	79
			2	46
			2	80
			3	67
			3	83
			4	53
			4	89
			5	46
			5	80
			6	46
			6	80
			7	32
			7	86
			8	72
			9	67
			10	67
			11	67

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			12	74
62534	RD-5-4133-0M	5310-01-525-2737	1	77
62534	RD-5-4133-0M	5310-01-525-2737	2	78
			3	81
			4	87
			5	78
			6	78
			7	84
			8	74
			9	69
			10	69
			11	69
			12	76
62534	RD-5-4137-0M	5975-01-524-9811	1	68
			2	69
			3	72
			4	78
			5	69
			6	69
			7	75
			8	66
			9	61
			10	61
			11	61
			12	68
62534	RD-5-4215-0	5310-01-525-8498	1	24
			2	25
			3	33
			4	33
			5	25
			6	25
			7	25
62534	RD-5-4400-0	4730-01-529-9380	3	24
			4	24
			8	60
			9	42
			9	124
			10	42
			10	124
			11	42
			11	124
			12	36
			12	131
62534	RD-5-4417-0P	5945-01-522-9738	1	106
			2	107
			3	110

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			4	116
			5	107
62534	RD-5-4417-0P	5945-01-522-9738	6	107
			7	113
			8	102
			9	97
			10	97
			11	97
			12	104
62534	RD-5-4544-0	5310-01-523-1558	1	103
			2	104
			3	107
			4	113
			5	104
			6	104
			7	110
			8	99
			9	94
			10	94
			11	94
			12	101
62534	RD-5-4556-1	5305-01-517-9281	1	26
			1	101
			2	27
			2	102
			3	23
			3	105
			4	23
			4	111
			5	27
			5	102
			6	27
			6	102
			7	27
			7	108
			8	62
			8	97
			9	92
			10	92
			11	92
			12	99
62534	RD-5-5223-2	2540-01-536-0012	1	97
			2	98
			3	101
			4	107
			5	98

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			6	98
			7	104
62534	RD-5-5223-2	2540-01-536-0012	8	93
			9	88
			10	88
			11	88
			12	95
62534	RD-5-5260-0-.750M	5305-01-525-2716	1	99
			2	100
			3	103
			4	109
			5	100
			6	100
			7	106
			8	95
			9	90
			10	90
			11	90
			12	97
62534	RD-5-5345-0	5320-01-520-5086	1	92
			2	93
			3	96
			4	102
			5	93
			6	93
			7	99
			8	88
			9	83
			10	83
			11	83
			12	90
62534	RD-5-5351-1-25	5305-01-523-2459	1	56
			1	73
			2	57
			2	74
			3	4
			3	77
			4	4
			4	83
			5	57
			5	74
			6	57
			6	74
			7	63
			7	80
			8	6

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			8	79
			8	117
62534	RD-5-5351-1-25	5305-01-523-2459	9	7
			9	74
			10	7
			10	74
			11	7
			11	74
			12	7
			12	81
62534	RD-5-5630-1-20M	5305-01-523-1009	1	111
			2	112
			3	115
			4	121
			5	112
			6	112
			7	118
			8	107
			9	102
			10	102
			11	102
			12	109
62534	RD-5-5679-0P	TBD	1	86
			1	128
			2	87
			2	129
			3	90
			3	132
			4	96
			4	138
			5	87
			5	129
			6	87
			6	129
			7	93
			7	135
			8	82
			9	77
			9	120
			10	77
			10	120
			11	77
			11	120
			12	84
			12	127
62534	RD-5-5743-0-30	5305-01-525-7700	3	25

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			4	25
62534	RD-5-5743-0-40	5305-01-517-9757	1	87
62534	RD-5-5743-0-40	5305-01-517-9757	2	88
			3	91
			4	97
			5	88
			6	88
			7	94
			8	83
			9	78
			10	78
			11	78
			12	85
62534	RD-5-5901-0P	4730-01-523-4097	1	60
			2	61
			3	49
			4	49
			5	61
			6	61
			7	67
			8	64
			9	33
			10	33
			11	33
			12	39
62534	RD-5-6139-0	5310-01-526-4993	1	30
			2	31
			3	53
			4	63
			5	31
			6	31
			7	40
			8	50
			9	46
			10	46
			11	46
			12	53
62534	RD-5-6141-0-130	5305-01-526-0983	1	38
			2	39
			3	61
			4	61
			5	39
			6	39
			7	38
			8	46
			9	52

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			10	52
			11	52
62534	RD-5-6141-0-130	5305-01-526-0983	12	51
62534	RD-5-6141-0-25	5305-01-529-8457	4	64
			7	41
			12	54
62534	RD-5-6239-0	5340-01-517-8600	1	91
			2	92
			3	95
			4	101
			5	92
			6	92
			7	98
			8	87
			9	82
			10	82
			11	82
			12	89
62534	RD-5-6250-0-30	5305-01-525-8603	1	32
			2	33
			3	55
			5	33
			6	33
			8	52
			9	48
			10	48
			11	48
62534	RD-5-6250-0-35	5305-01-529-7316	4	67
			7	44
			12	57
62534	RD-5-6250-0-40	5305-01-529-7949	4	59
			7	35
			12	48
62534	RD-5-6250-0-50	5305-01-529-8139	1	35
			2	36
			3	58
			4	75
			5	36
			6	36
			7	52
			8	55
			9	54
			10	54
			11	54
			12	65
62534	RD-5-6250-0-55	5305-01-525-8583	1	31



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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			2	32
			3	54
62534	RD-5-6250-0-55	5305-01-525-8583	5	32
			6	32
			8	51
			9	47
			10	47
			11	47
62534	RD-5-6250-0-60	5305-01-529-5657	4	72
			7	49
			12	62
62534	RD-5-6260-0	5310-01-525-9051	1	37
			2	38
			3	60
			4	60
			5	38
			6	38
			7	37
			8	45
			9	51
			10	51
			11	51
			12	50
62534	RD-5-6261-0	5310-01-525-6841	1	36
			2	37
			3	59
			5	37
			6	37
			8	54
			9	55
			10	55
			11	55
62534	RD-5-6296-.750	5365-01-525-8531	1	40
			2	41
			3	63
			5	41
			6	41
			8	48
			9	56
			10	56
			11	56
62534	RD-5-6326-0P	5305-01-523-1683	3	3
			9	26
			10	26
			11	26
			12	28

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-5-6532-13	TBD	9	34
			10	34
62534	RD-5-6532-13	TBD	11	34
			12	40
62534	RD-5-6532-24P	4720-01-532-9536	1	61
			2	62
			3	48
			4	48
			5	62
			6	62
			7	68
62534	RD-5-6600-0P	4730-01-523-3729	1	28
			2	29
			3	21
			4	21
			5	29
			6	29
			7	29
			8	36
			9	23
			10	23
			11	23
			12	27
62534	RD-5-6666-0	TBD	1	62
			2	63
			3	47
			4	47
			5	63
			6	63
			7	69
			9	36
			10	36
			11	36
			12	42
			62534	RD-5-6675-0-1.000
2	53			
3	51			
4	51			
5	53			
6	53			
7	59			
8	13			
9	45			
10	45			
11	45			
12	13			

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
62534	RD-5-6676-60	2540-01-523-3654	8	22
62534	RD-5-6676-8	TBD	3	70
62534	RD-5-6676-8	TBD	4	56
62534	RD-5-6680-0	TBD	8	14
62534	RD-5-6865-0	TBD	8	24
62534	RD-5-6872-0M	5310-01-525-8013	1	27
			2	28
			3	22
			4	22
			5	28
			6	28
			7	28
			8	61
62534	RD-5-7196-0	4730-01-520-5375	1	63
			2	64
			3	46
			4	46
			5	64
			6	64
			7	70
			9	37
			10	37
			11	37
			12	43
62534	RD-5-7212-1-.375	TBD	1	125
			2	126
			3	129
			4	135
			5	126
			6	126
			7	132
			8	119
			9	116
			10	116
			11	116
			12	123
62534	RD-5-7213-1-.375	5305-01-524-2260	1	83
			2	84
			3	87
			4	93
			5	86
			6	86
			7	92
			8	78
			9	73
			10	73

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			11	73
			12	80
62534	RD-5-7357-8.5P	5970-01-523-3109	1	114
			2	115
			3	118
			4	124
			5	115
			6	115
			7	121
			8	110
			9	105
			10	105
			11	105
			12	112
62534	RD-5-8218-0	5930-01-527-2166	8	130
62534	RD-5-8222-1-16	5305-01-517-9283	1	123
			2	124
			3	127
			4	133
			5	124
			6	124
			7	130
			8	127
			9	112
			10	112
			11	112
			12	119
62534	RD-5-8222-1-22	5305-01-529-8296	9	43
			9	122
			10	43
			10	122
			11	43
			11	122
			12	35
			12	129
62534	RD-5-8410-0	5340-01-524-2263	1	89
			2	90
			3	93
			4	99
			5	90
			6	90
			7	96
			8	85
			9	80
			10	80
			11	80

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			12	87
62534	RD-5-8785-3P	4140-01-521-6422	1	115
62534	RD-5-8785-3P	4140-01-521-6422	2	116
			3	119
			4	125
			5	116
			6	116
			7	122
			8	111
			9	106
			10	106
			11	106
			12	113
62534	RD-5-8980-1-20	5305-01-523-1683	1	116
			2	117
			3	120
			4	126
			5	117
			6	117
			7	123
			8	112
			9	107
			10	107
			11	107
			12	114
62534	RD-5-9377-0	5310-01-525-8620	1	33
			2	34
			3	56
			4	69
			5	34
			6	34
			7	46
			8	53
			9	50
			10	50
			11	50
			12	59
62534	RD-9-10006-0	5340-01-529-5527	4	62
			7	39
			12	52
62534	RD-9-10008-0	5340-01-529-7711	4	58
			7	34
			12	47
62534	RD-9-10027-0	5340-01-526-3469	1	29
			2	30
			3	52

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CAGEC	PART NUMBER	STOCK NUMBER	FIGURE NO	ITEM NO
			5	30
			6	30
62534	RD-9-10027-0	5340-01-526-3469	8	49
			9	49
			10	49
			11	49
62534	RD-9-10032-0	2920-01-256-5910	1	39
			2	40
			3	62
			5	40
			6	40
			8	47
			9	57
			10	57
			11	57
62534	RD-9-10034-0	TBD	4	73
			7	50
			12	63
62534	RD-9-10036-0	5340-01-529-7655	4	74
			7	51
			12	64
62534	RD-9-10054-0	3020-01-529-8066	4	68
			7	45
			12	58

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO	
2920-01-256-5910	1	39	5305-01-517-9281	1	101	
	2	40		2	27	
	3	62		2	102	
	5	40		3	23	
	6	40		3	105	
	8	47		4	23	
	9	57		4	111	
	10	57		5	27	
	11	57		5	102	
	6685-01-517-4892	1		108	6	27
		2		109	6	102
3		112	7	27		
4		118	7	108		
5		109	8	62		
6		109	8	97		
7		115	9	92		
8		104	10	92		
9		99	11	92		
10		99	12	99		
11		99	5305-01-517-9283	1	129	
12		106		2	130	
4820-01-517-7304	1	85	3	133		
	2	86	4	139		
	3	89	5	130		
	4	95	6	130		
	5	86	7	127		
	6	86	8	127		
	7	92	9	112		
	8	81	10	112		
	9	76	11	112		
	10	76	12	119		
	11	76	5305-01-517-9757	1	87	
	12	83		2	88	
5340-01-517-8600	1	91	3	91		
	2	92	4	97		
	3	95	5	88		
	4	101	6	88		
	5	92	7	94		
	6	92	8	83		
	7	98	9	78		
	8	87	10	78		
	9	82	11	78		
	10	82	12	85		
	11	82	5320-01-520-5086	1	92	
	12	89		2	93	
5305-01-517-9281	1	26	3	96		

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO		
5320-01-520-5086	4	102	4130-01-521-5745	3	28		
	5	93		4	28		
	6	93		5	22		
	7	99		6	22		
	8	88		7	22		
	9	83		8	129		
	10	83		9	127		
	11	83		10	127		
	12	90		11	127		
	4730-01-520-5375	1		63	4130-01-521-5757	12	134
		2		64		1	121
		3		46		2	122
4		46	3	125			
5		64	4	131			
6		64	5	122			
7		70	6	122			
9		37	7	128			
10		37	8	125			
11		37	9	113			
12		43	10	113			
6150-01-521-4634		1	112	4140-01-521-5780		11	113
	2	113	12		120		
	3	116	1		113		
	4	122	2		114		
	5	113	3		117		
	6	113	4		123		
	7	119	5		114		
	8	108	6		114		
	9	103	7		120		
	10	103	4140-01-521-6422		1	115	
	11	103			2	116	
	12	110			3	119	
6150-01-521-5712	1	135	4130-01-521-6442	4	125		
	2	136		5	116		
	3	139		6	116		
	4	145		7	122		
	5	136		8	111		
	6	136		9	106		
	7	142		10	106		
	8	137		11	106		
	9	130		12	113		
	10	130		1	95		
	11	130		2	96		
	12	137		3	99		
4130-01-521-5745	1	21	4	105			
	2	22	5	96			



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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO		
4130-01-521-6442	6	96	5925-01-521-7620	4	86		
	7	102		5	77		
	8	91		6	77		
	9	86		7	83		
	10	86		8	73		
	11	86		9	68		
	12	93		10	68		
	5915-01-521-6706	1		107	11	68	
		1		127	12	75	
		2		108	6150-01-521-7661	1	67
		2		128		2	68
		3		111		3	71
3		131	4	77			
4		117	5	68			
4		137	6	68			
5		108	7	74			
5		128	8	65			
6		108	9	60			
6		128	10	60			
7	114	11	60				
7	134	12	67				
4130-01-521-7486	8	103	2540-01-521-7709	1	96		
	8	135		2	97		
	9	98		3	100		
	9	118		4	106		
	10	98		5	97		
	10	118		6	97		
	11	98		7	103		
	11	118		8	92		
	12	105		9	87		
	12	125		10	87		
	1	94		11	87		
	2	95		12	94		
3	98	2540-01-521-7737	1	51			
4	104		2	52			
5	95		3	50			
6	95		4	50			
7	101		5	52			
8	90		6	52			
9	85		7	58			
10	85		8	12			
11	85		9	44			
12	92		10	44			
5925-01-521-7620	1		76	11	44		
	2		77	12	12		
	3	80	4130-01-521-7816	1	42		

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4130-01-521-7816	2	43	4710-01-523-0548	9	100	
	3	65		10	100	
	4	57		11	100	
	5	43		12	107	
	6	43	5306-01-523-1006	1	47	
	7	33		1	117	
	8	58		2	48	
	9	59		2	118	
	10	59		3	121	
	11	59		4	127	
	12	46		5	48	
	4140-01-521-8532	1		105	5	118
2		106		6	48	
3		109		6	118	
4		115		7	55	
5		106		7	124	
6		106	8	7		
7		112	8	113		
8		101	9	108		
9		96	10	108		
10		96	11	108		
11		96	12	115		
12		103	5305-01-523-1009	1	111	
5945-01-522-9738	1	106		2	112	
	2	107		3	115	
	3	110		4	121	
	4	116		5	112	
	5	107		6	112	
	6	107		7	118	
	7	113		8	107	
	8	102		9	102	
	9	97		10	102	
	10	97		11	102	
	11	97		12	109	
	12	104	5340-01-523-1015	1	78	
4720-01-523-0403	3	39		2	79	
	4	39		3	82	
	8	18		4	88	
	4710-01-523-0548	1		109	5	79
2		110		6	79	
3		113		7	85	
4		119		5310-01-523-1558	1	103
5		110			2	104
6		110			3	107
7		116			4	113
8		105		5	104	

CROSS REFERENCE INDEXES  
NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO		
5310-01-523-1558	6	104	5340-01-523-1985	3	108		
	7	110		4	114		
	8	99		5	105		
	9	94		6	105		
	10	94		7	111		
	11	94		8	100		
	12	101		9	95		
	5340-01-523-1579	1		46	10	95	
		2		47	11	95	
		5		47	12	102	
		6		47	5340-01-523-2408	1	126
		7		54		2	127
5340-01-523-1682		1	57	3		130	
		2	58	4		136	
	3	45	5	127			
	4	45	6	127			
	5	58	7	133			
	6	58	8	134			
	7	64	9	117			
5305-01-523-1683	1	116	10	117			
	2	117	11	117			
	3	120	12	124			
	4	126	5340-01-523-2444	1	130		
	5	117		2	131		
	6	117		3	134		
	7	123		4	140		
	8	112		5	131		
	9	107		6	131		
	10	107		7	137		
	11	107	5305-01-523-2459	1	56		
	12	114		1	73		
5305-01-523-1947	1	102	2	57			
	2	103	2	74			
	3	106	3	4			
	4	112	3	77			
	5	103	4	4			
	6	103	4	83			
	7	109	5	57			
	8	20	5	74			
	8	98	6	57			
	9	93	6	74			
	10	93	7	63			
	11	93	7	80			
12	100	8	6				
5340-01-523-1985	1	104	8	79			
	2	105	8	117			

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NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
5305-01-523-2459	9	7	5970-01-523-3109	6	115
	9	74		7	121
	10	7		8	110
	10	74		9	105
	11	7		10	105
	11	74		11	105
	12	7		12	112
	12	81	2540-01-523-3654	8	22
5310-01-523-2651	1	50	2510-01-523-3670	1	132
	1	131		2	133
	2	51		3	136
	2	132		4	142
	3	31		5	133
	3	135		6	133
	4	31		7	139
	4	141		8	128
	5	51		9	111
	5	132		10	111
	6	51		11	111
	6	132		12	118
	7	36	2510-01-523-3685	1	122
	7	138		2	123
	8	9		3	126
	8	121		4	132
	9	115		5	123
	10	115		6	123
	11	115		7	129
	12	49		8	126
	12	122		9	125
5340-01-523-2793	1	80		10	125
	2	81		11	125
	3	84		12	132
	4	90	5340-01-523-3687	3	2
	5	81		4	2
	6	81	5340-01-523-3707	1	66
	7	87		2	67
	8	75		3	37
	9	70		4	37
	10	70		5	67
	11	70		6	67
	12	77		7	73
5970-01-523-3109	1	114	5330-01-523-3709	1	124
	2	115		2	125
	3	118		3	128
	4	124		4	134
	5	115		5	125

CROSS REFERENCE INDEXES  
NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO	
5330-01-523-3709	6	125	4730-01-523-3729	9	23	
	7	131		10	23	
	8	136		11	23	
	9	119		12	25	
	10	119		4710-01-523-3734	1	17
	11	119			2	17
	12	126	3		36	
	5310-01-523-3710	1	48		4	36
		1	118		5	17
		2	49		6	17
		2	119	7	17	
		3	17	4720-01-523-3955	1	6
3		122	2		6	
4		17	3		44	
4		128	4		44	
5		49	5		6	
5		119	6		6	
6		49	7	6		
6		119	8	44		
7	56	9	25			
7	125	10	25			
8	114	11	25			
9	109	12	27			
10	109	5340-01-523-3961	1	53		
11	109		2	54		
12	116		3	15		
5330-01-523-3722	1		81	4	15	
	2	82	5	54		
	3	85	6	54		
	4	91	7	60		
	5	82	5330-01-523-3964	1	93	
	6	82		2	94	
	7	88		3	97	
	8	76		4	103	
	9	71		5	94	
	10	71		6	94	
	11	71	7	100		
	12	78	8	88		
4730-01-523-3729	1	28	9	84		
	2	29	10	84		
	3	21	11	84		
	4	21	12	91		
	5	29	4130-01-523-3966	1	1	
	6	29		2	1	
	7	29		3	1	
	8	36		4	1	

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
4130-01-523-3966	5	1	4730-01-523-4950	2	45
	6	1		3	9
	7	1		5	45
5340-01-523-3992	1	82		6	45
	2	83	4720-01-523-5941	1	11
	3	86		2	11
	4	92		3	35
	5	83		4	35
	6	83		5	11
	7	89		6	11
	8	77		7	11
	9	72		8	37
	10	72		9	24
	11	72		10	24
	12	79		11	24
5340-01-523-3993	1	110		12	26
	2	111	4730-01-523-6296	1	43
	3	114		2	44
	4	120		3	66
	5	111		4	52
	6	111		5	44
	7	117		6	44
	8	106		7	30
	9	101		8	59
	10	101		9	40
	11	101		10	40
	12	108		11	40
4730-01-523-4097	1	60		12	38
	2	61	5340-01-523-6753	1	74
	3	49		2	75
	4	49		3	78
	5	61		4	84
	6	61		5	75
	7	67		6	75
	8	64		7	81
	9	33	5340-01-523-6759	1	120
	10	33		2	121
	11	33		3	124
	12	39		4	130
3990-01-523-4851	3	3		5	121
	4	3		6	121
	9	26		7	127
	10	26	4730-01-523-7227	1	8
	11	26		2	8
	12	28		5	8
4730-01-523-4950	1	44		6	8

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
4730-01-523-7227	7	8	4720-01-523-9231	2	12
5340-01-523-7598	1	49		3	19
	2	50		4	19
	5	50		5	12
	6	50		6	12
	7	57		7	12
4710-01-523-7739	1	18		8	30
	2	18		9	18
	3	20		10	18
	4	20		11	18
	5	18		12	20
	6	18	4730-01-523-9527	1	14
	7	18		2	14
5340-01-523-8425	1	75		3	41
	2	76		4	41
	3	79		5	14
	4	85		6	14
	5	76		7	14
	6	76		9	28
	7	82		10	28
	8	71		11	28
	9	66		12	31
	10	66	5340-01-524-1884	1	134
	11	66		2	135
	12	73		3	138
5930-01-523-8574	1	19		4	144
	2	19		5	135
	3	27		6	135
	4	27		7	141
	5	19	5340-01-524-1893	1	84
	6	19		2	85
	7	19		3	88
	9	6		4	94
	10	6		5	84
	11	6		6	84
	12	6		7	90
4730-01-523-8622	1	3		8	80
	2	21		9	75
	3	10		10	75
	4	10		11	75
	5	3		12	82
	5	21	5305-01-524-2260	1	83
	6	3		2	84
	6	21		3	87
	7	21		4	93
4720-01-523-9231	1	12		5	86

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
	6	86	5340-01-524-4491	4	129
	7	92		5	120
	8	78		6	120
	9	73		7	126
	10	73		8	115
	11	73		9	110
	12	80		10	110
5340-01-524-2263	1	89		11	110
	2	90		12	117
	3	93	4730-01-524-5104	2	3
	4	99		7	3
	5	86	4730-01-524-7449	8	40
	6	86	5331-01-524-7872	1	13
	7	96		1	90
	8	85		2	13
	9	80		2	91
	10	80		3	40
	11	80		3	94
	12	87		4	40
3030-01-524-2451	4	71		4	100
	7	48		5	13
	12	61		5	91
3030-01-524-2455	1	41		6	13
	2	42		6	91
	3	64		7	13
	5	42		7	97
	6	42		8	39
	8	57		8	86
	9	58		9	27
	10	58		9	81
	11	58		10	27
3020-01-524-2457	1	34		10	81
	2	35		11	27
	3	57		11	81
	5	35		12	32
	6	35		12	88
	8	56	5930-01-524-7887	1	20
	9	53		2	20
	10	53		3	26
	11	53		4	26
3030-01-524-2460	4	76		5	20
	7	53		6	20
	12	66		7	20
5340-01-524-4491	1	119		8	131
	2	120		9	128
	3	123		10	128



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NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
	11	128		10	30
	12	135		11	30
5340-01-524-8775	3	30		12	29
	4	30	5340-01-524-9120	8	38
5325-01-524-8831	1	45	4720-01-524-9153	1	5
	1	79		2	5
	2	46		3	14
	2	80		4	14
	3	67		5	5
	3	83		6	5
	4	53		7	5
	4	89		8	29
	5	46		9	22
	5	80		10	22
	6	46		11	22
	6	80		12	24
	7	32	5305-01-524-9553	1	52
	7	86		2	53
	8	72		3	51
	9	67		4	51
	10	67		5	53
	11	67		6	53
	12	74		7	59
5340-01-524-8857	8	15		8	13
5340-01-524-8858	8	133		9	45
4720-01-524-8886	1	15		10	45
	2	15		11	45
	3	42		12	13
	4	42	5975-01-524-9811	1	68
	5	15		2	69
	6	15		3	72
	7	15		4	78
	8	41		5	69
	9	29		6	69
	10	29		7	75
	11	29		8	66
	12	30		9	61
4730-01-524-9089	1	16		10	61
	2	16		11	61
	3	43		12	68
	4	43	5331-01-524-9812	1	7
	5	16		1	88
	6	16		2	7
	7	16		2	89
	8	42		3	7
	9	30		3	92

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
	4	7		9	63
	4	98		10	63
	5	7		11	63
	5	89		12	70
	6	7	5331-01-525-1903	1	2
	6	89		2	2
	7	7		3	8
5331-01-524-9812	7	95		4	8
	8	32		5	2
	8	84		6	2
	9	14		7	2
	9	79		8	26
	10	14		9	19
	10	79		10	19
	11	14		11	19
	11	79		12	21
	12	16	5340-01-525-1931	1	128
	12	86		2	129
4730-01-525-0178	8	43		3	132
4720-01-525-0347	1	10		4	138
	2	10		5	129
	3	13		6	129
	4	13		7	135
	5	10		9	121
	6	10		10	121
	7	10		11	121
	8	35		12	128
	9	17	5340-01-525-1952	8	17
	10	17	4730-01-525-1956	8	27
	11	17		9	39
	12	19		10	39
6150-01-525-1122	8	69		11	39
	9	64		12	45
	10	64	4720-01-525-1960	1	4
	11	64		2	4
	12	71		3	12
5340-01-525-1253	8	4		4	12
	8	116		5	4
6150-01-525-1625	1	69		6	4
	2	70		7	4
	3	73		8	28
	4	79		9	21
	5	70		10	21
	6	70		11	21
	7	76		12	23
	8	68	5340-01-525-1963	1	133

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
	2	134		4	11
	3	137		5	9
	4	143		6	9
	5	134		7	9
	6	134		8	34
	7	140		9	16
5305-01-525-2716	1	99		10	16
5305-01-525-2716	2	100	4720-01-525-4326	11	16
	3	103		12	18
	4	109	4730-01-525-4521	4	9
	5	100		7	31
	6	100		8	33
	7	106		9	15
	8	95		10	15
	9	90		11	15
	10	90		12	17
	11	90	5310-01-525-6841	1	36
	12	97		2	37
5310-01-525-2737	1	77		3	59
	2	78		5	37
	3	81		6	37
	4	87		8	54
	5	78		9	55
	6	78		10	55
	7	84		11	55
	8	74	5305-01-525-7700	3	25
	9	69		4	25
	10	69	5310-01-525-8013	1	27
	11	69		2	28
	12	76		3	22
5340-01-525-3875	8	31		4	22
6150-01-525-3955	1	70		5	28
	2	71		6	28
	3	74		7	28
	4	80		8	61
	5	71	5340-01-525-8155	8	19
	6	71	5310-01-525-8498	1	24
	7	77		2	25
	8	67	5310-01-525-8498	3	33
	9	62		4	33
	10	62		5	25
	11	62		6	25
	12	69		7	25
4720-01-525-4326	1	9	5365-01-525-8531	1	40
	2	9		2	41
	3	11		3	63

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
	5	41	5310-01-525-8620	5	34
	6	41		6	34
	8	48		7	46
	9	56		8	53
	10	56		9	50
	11	56		10	50
5306-01-525-8566	1	55		11	50
	2	56		12	59
	3	18	4520-01-525-8636	1	25
	4	18		2	26
	5	56		3	32
	6	56		4	32
	7	62		5	26
5305-01-525-8583	1	31		6	26
	2	32		7	26
	3	54	5340-01-525-8661	3	68
	4	72		4	54
	5	32		8	23
	6	32	5310-01-525-8946	1	59
	7	49		2	60
	8	51		3	6
	9	47		4	6
	10	47		5	60
	11	47		6	60
	12	62		7	66
5305-01-525-8598	1	23		8	10
	2	24		8	123
	3	34	5310-01-525-9051	1	37
	4	34		2	38
	5	24		3	60
	6	24		4	60
	7	24		5	38
	8	63		6	38
5305-01-525-8603	1	32		7	37
	2	33		8	45
	3	55		9	51
	5	33		10	51
	6	33		11	51
	8	52		12	50
	9	48	5340-01-525-9799	8	11
	10	48		8	120
	11	48	5310-01-526-0689	1	54
5310-01-525-8620	1	33		2	55
	2	34		3	16
	3	56		4	16
	4	69		5	55

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
	6	55		4	29
	7	61		5	23
	8	8		6	23
5305-01-526-0983	1	38		7	23
	2	39		8	16
	3	61		8	132
	4	61		9	126
	5	39	4730-01-526-5020	10	126
	6	39		11	126
	7	38		12	133
	8	46	2540-01-526-8372	1	64
	9	52		2	65
	10	52		3	69
	11	52		4	55
	12	51		5	65
5340-01-526-3469	1	29		6	65
	2	30		7	71
	3	52		8	21
	5	30		9	38
	6	30		10	38
	8	49		11	38
	9	49		12	44
	10	49	5930-01-527-2166	8	130
	11	49	5340-01-529-5527	4	62
5340-01-526-4976	1	65		7	39
	2	66		12	52
	3	38	5340-01-529-5529	9	13
	4	38		10	13
	5	66		11	13
	6	66		12	15
	7	72	5307-01-529-5644	4	65
5310-01-526-4993	1	30		7	42
	2	31		12	55
	3	53	5307-01-529-5657	4	72
	4	63		7	49
	5	31		12	62
	6	31	5307-01-529-7212	4	66
	7	40		7	43
	8	50		12	56
	9	46	5305-01-529-7316	4	67
	10	46		7	44
	11	46		12	57
	12	53	5340-01-529-7347	8	118
4730-01-526-5020	1	22	5306-01-529-7375	4	70
	2	23		7	47
	3	29		12	60

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STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO		
5340-01-529-7655	4	74	5305-01-529-8296	9	122		
	7	51		10	43		
	12	64		10	122		
5340-01-529-7702	9	3	5305-01-529-8457	11	43		
	10	3		11	122		
	11	3		12	35		
	12	3		12	129		
5340-01-529-7711	4	58	3040-01-529-8665	4	64		
	7	34		7	41		
	12	47		12	54		
4720-01-529-7878	8	124	5340-01-529-9047	9	129		
	9	123		10	129		
	10	123		11	129		
	11	123		12	136		
	12	130		9	41		
5305-01-529-7949	4	59	5340-01-529-9064	10	41		
	7	35		11	41		
	12	48		12	37		
	4	68		9	10		
5305-01-529-8066	7	45	4730-01-529-9380	10	10		
	12	58		11	10		
	1	35		12	10		
	2	36		3	24		
5305-01-529-8139	3	58	2510-01-529-9425	4	24		
	4	75		8	60		
	5	36		9	42		
	6	36		9	124		
	7	52		10	42		
	8	55		10	124		
	9	54		11	42		
	10	54		11	124		
	11	54		12	36		
	12	65		12	131		
	5340-01-529-8143	9		32	5325-01-529-9543	9	114
		10		32		10	114
11		32	11	114			
12		34	12	121			
4730-01-529-8151	9	20	4130-01-530-6117	9	35		
	10	20		10	35		
	11	20		11	35		
	12	22		12	41		
5340-01-529-8292	9	2	4130-01-530-6336	9	104		
	10	2		10	104		
	11	2		11	104		
	12	2		12	111		
5305-01-529-8296	9	43		8	109		

CROSS REFERENCE INDEXES  
NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
4120-01-530-6339	8	70	2540-01-536-0012	2	98
	9	65		3	101
	10	65		4	107
	11	65		5	98
4120-01-530-6339	12	72	6	98	
4130-01-530-6596	12	1	7	104	
4130-01-530-6880	8	1	8	93	
4130-01-531-1190	9	1	9	88	
	10	1	10	88	
	11	1	11	88	
	1	98	12	95	
4520-01-532-4463	2	99	2540-01-536-0113	1	100
	3	102		2	101
	4	108		3	104
	5	99		4	110
	6	99		5	101
	7	105		6	101
	8	94		7	107
	9	89		8	96
	10	89		9	91
	11	89		10	91
	12	96		11	91
	4720-01-532-9536	1		61	12
2		62	TBD	1	62
3		48	1	72	
4		48	1	86	
5		62	1	123	
6		62	1	125	
7		68	2	63	
6150-01-533-0936	1	71	2	73	
	2	72	2	87	
	3	75	2	124	
	4	81	2	126	
	5	72	3	47	
	6	72	3	70	
	7	78	3	76	
5310-01-533-4006	1	58	3	90	
	2	59	3	127	
	3	5	3	129	
	4	5	4	47	
	5	59	4	56	
	6	59	4	73	
	7	65	4	82	
5310-01-533-4006	8	5	4	96	
	8	122	4	133	
2540-01-536-0012	1	97	4	135	

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CROSS REFERENCE INDEXES  
NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
TBD	5	63	TBD	10	120
	5	73		11	4
	5	87		11	5
	5	124		11	8
	5	126		11	9
	6	63		11	11
	6	73		11	12
	6	87		11	31
	6	124		11	34
	6	126		11	36
	7	50		11	77
	7	69		11	116
	7	79		11	120
	7	93		12	4
	7	130		12	5
	7	132		12	8
	8	2		12	9
	8	3		12	11
	8	14		12	14
	8	24		12	33
	8	25		12	40
	8	82		12	42
	8	119		12	63
	9	4		12	84
	9	5		12	123
	9	8		12	127
	9	9			
	9	11			
	9	12			
	9	31			
	9	34			
	9	36			
	9	77			
	9	116			
	9	120			
	10	4			
	10	5			
	10	8			
	10	9			
	10	11			
	10	12			
	10	31			
	10	34			
	10	36			
	10	77			
	10	116			



**CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX**

<b>FIGURE NO</b>	<b>ITEM NO</b>	<b>STOCK NUMBER</b>	<b>CAGEC</b>	<b>PART NO</b>
1	1	4130-01-523-3966	62534	RD-2-4233-0
1	2	5331-01-525-1903	62534	RD-5-11015-0P
1	3	4730-01-523-8622	62534	RD-5-10520-0P
1	4	4720-01-525-1960	62534	RD-5-10709-0P
1	5	4720-01-524-9153	62534	RD-5-10713-0P
1	6	4720-01-523-3955	62534	RD-5-10507-600P
1	7	5331-01-524-9812	62534	RD-5-11016-0P
1	8	4730-01-523-7227	62534	RD-5-10510-0P
1	9	4720-01-525-4326	62534	RD-5-10710-0P
1	10	4720-01-525-0347	62534	RD-5-10714-0P
1	11	4720-01-523-5941	62534	RD-5-10505-600P
1	12	4720-01-523-9231	62534	RD-5-10504-600P
1	13	5331-01-524-7872	62534	RD-5-11017-0P
1	14	4730-01-523-9527	62534	RD-5-10574-0P
1	15	4720-01-524-8886	62534	RD-5-10712-0P
1	16	4730-01-524-9089	62534	RD-5-10716-0P
1	17	4710-01-523-3734	62534	RD-4-5879-0P
1	18	4710-01-523-7739	62534	RD-4-5878-0P
1	19	5930-01-523-8574	62534	RD-5-11446-0P
1	20	5930-01-524-7887	62534	RD-5-11064-0P
1	21	4130-01-521-5745	62534	RD-5-11435-0P
1	22	4730-01-526-5020	62534	RD-5-4035-52
1	23	5305-01-525-8598	62534	RD-5-11433-1-20
1	24	5310-01-525-8498	62534	RD-5-4215-0
1	25	4520-01-525-8636	62534	RD-4-5926-1
1	26	5305-01-517-9281	62534	RD-5-4556-1
1	27	5310-01-525-8013	62534	RD-5-6872-0M
1	28	4730-01-523-3729	62534	RD-5-6600-0P
1	29	5340-01-526-3469	62534	RD-9-10027-0
1	30	5310-01-526-4993	62534	RD-5-6139-0
1	31	5305-01-525-8583	62534	RD-5-6250-0-55
1	32	5305-01-525-8603	62534	RD-5-6250-0-30
1	33	5310-01-525-8620	62534	RD-5-9377-0
1	34	3020-01-524-2457	62534	RD-5-11409-0P
1	35	5305-01-529-8139	62534	RD-5-6250-0-50
1	36	5310-01-525-6841	62534	RD-5-6261-0
1	37	5310-01-525-9051	62534	RD-5-6260-0
1	38	5305-01-526-0983	62534	RD-5-6141-0-130
1	39	2920-01-256-5910	62534	RD-9-10032-0
1	40	5365-01-525-8531	62534	RD-5-6296-.750
1	41	3030-01-524-2455	62534	RD-5-11406-0P
1	42	4130-01-521-7816	62534	RD-5-11393-0P
1	43	4730-01-523-6296	62534	RD-5-10525-0P
1	44	4730-01-523-4950	62534	RD-5-10517-0P
1	45	5325-01-524-8831	62534	RD-5-4053-0P
1	46	5340-01-523-1579	62534	RD-4-5917-1P
1	47	5306-01-523-1006	62534	RD-5-11390-0-

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FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
				1.500M
1	48	5310-01-523-3710	62534	RD-5-11388-0
1	49	5340-01-523-7598	62534	RD-4-5916-0
1	50	5310-01-523-2651	62534	RD-5-11392-0
1	51	2540-01-521-7737	62534	RD-2-4158-0P
1	52	5305-01-524-9553	62534	RD-5-6675-0- 1.000
1	53	5340-01-523-3961	62534	RD-2-4221-0P
1	54	5310-01-526-0689	62534	RD-5-11389-0
1	55	5306-01-525-8566	62534	RD-5-11390-0- 2.500
1	56	5305-01-523-2459	62534	RD-5-5351-1-25
1	57	5340-01-523-1682	62534	RD-2-4219-0P
1	58	5310-01-533-4006	62534	RD-5-4043
1	59	5310-01-525-8946	62534	RD-5-10818-0
1	60	4730-01-523-4097	62534	RD-5-5901-0P
1	61	4720-01-532-9536	62534	RD-5-6532-24P
1	62	TBD	62534	RD-5-6666-0
1	63	4730-01-520-5375	62534	RD-5-7196-0
1	64	2540-01-526-8372	62534	RD-2-4162-0
1	65	5340-01-526-4976	62534	RD-2-4140-0
1	66	5340-01-523-3707	62534	RD-2-4220-0P
1	67	6150-01-521-7661	62534	RD-2-4156-0P
1	68	5975-01-524-9811	62534	RD-5-4137-0M
1	69	6150-01-525-1625	62534	RD-2-4160-0P
1	70	6150-01-525-3955	62534	RD-2-4163-0P
1	71	6150-01-533-0936	62534	RD-4-5958-0P
1	72	TBD	62534	RD-2-4115
1	73	5305-01-523-2459	62534	RD-5-5351-1-25
1	74	5340-01-523-6753	62534	RD-2-4222-0P
1	75	5340-01-523-8425	62534	RD-2-4116-0
1	76	5925-01-521-7620	62534	RD-5-11437-0P
1	77	5310-01-525-2737	62534	RD-5-4133-0M
1	78	5340-01-523-1015	62534	RD-2-4222-1
1	79	5325-01-524-8831	62534	RD-5-4053-0P
1	80	5340-01-523-2793	62534	RD-2-4122-0P
1	81	5330-01-523-3722	62534	RD-2-4136-0P
1	82	5340-01-523-3992	62534	RD-2-4128-0P
1	83	5305-01-524-2260	62534	RD-5-7213-1- .375
1	84	5340-01-524-1893	62534	RD-2-4142-0
1	85	4820-01-517-7304	62534	RD-5-11438-0P
1	86	TBD	62534	RD-5-5679-0P
1	87	5305-01-517-9757	62534	RD-5-5743-0-40
1	88	5331-01-524-9812	62534	RD-5-11016-0P
1	89	5340-01-524-2263	62534	RD-5-8410-0
1	90	5331-01-524-7872	62534	RD-5-11017-0P

**CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
1	91	5340-01-517-8600	62534	RD-5-6239-0
1	92	5320-01-520-5086	62534	RD-5-5345-0
1	93	5330-01-523-3964	62534	RD-2-4149-0P
1	94	4130-01-521-7486	62534	RD-2-4132-0P
1	95	4130-01-521-6442	62534	RD-2-4129-0P
1	96	2540-01-521-7709	62534	RD-2-4169-0P
1	97	2540-01-536-0012	62534	RD-5-5223-2
1	98	4520-01-532-4463	62534	RD-2-4131-0P
1	99	5305-01-525-2716	62534	RD-5-5260-0- .750M
1	100	2540-01-536-0113	62534	RD-2-4152-0P
1	101	5305-01-517-9281	62534	RD-5-4556-1
1	102	5305-01-523-1947	62534	RD-5-10825-1-16
1	103	5310-01-523-1558	62534	RD-5-4544-0
1	104	5340-01-523-1985	62534	RD-2-4126-0P
1	105	4140-01-521-8532	62534	RD-5-11436-0P
1	106	5945-01-522-9738	62534	RD-5-4417-0P
1	107	5915-01-521-6706	62534	RD-5-11445-0P
1	108	6685-01-517-4892	62534	RD-5-11440-0P
1	109	4710-01-523-0548	62534	RD-5-3816-16P
1	110	5340-01-523-3993	62534	RD-2-4150-0P
1	111	5305-01-523-1009	62534	RD-5-5630-1-20M
1	112	6150-01-521-4634	62534	RD-2-4153-0P
1	113	4140-01-521-5780	62534	RD-4-5877-0P
1	114	5970-01-523-3109	62534	RD-5-7357-8.5P
1	115	4140-01-521-6422	62534	RD-5-8785-3P
1	116	5305-01-523-1683	62534	RD-5-8980-1-20
1	117	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
1	118	5310-01-523-3710	62534	RD-5-11388-0
1	119	5340-01-524-4491	62534	RD-4-59140P
1	120	5340-01-523-6759	62534	RD-4-5899-1P
1	121	4130-01-521-5757	62534	RD-4-5857-0P
1	122	2510-01-523-3685	62534	RD-4-5921-0P
1	123	TBD	62534	RD-5-5679-0P
1	124	5330-01-523-3709	62534	RD-4-5947-0P
1	125	TBD	62534	RD-5-7212-1- .375
1	126	5340-01-523-2408	62534	RD-4-5886-0P
1	127	5915-01-521-6706	62534	RD-5-11445-0P
1	128	5340-01-525-1931	62534	RD-4-5968-0P
1	129	5305-01-517-9283	62534	RD-5-8222-1-16
1	130	5340-01-523-2444	62534	RD-4-5875-0P
1	131	5310-01-523-2651	62534	RD-5-11392-0
1	132	2510-01-523-3670	62534	RD-4-59220P
1	133	5340-01-525-1963	62534	RD-4-5951-0P
1	134	5340-01-524-1884	62534	RD-4-5893-1P

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CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
1	135	6150-01-521-5712	62534	RD-4-5913-0P
2	1	4130-01-523-3966	62534	RD-2-4233-0
2	2	5331-01-525-1903	62534	RD-5-11015-0P
2	3	4730-01-524-5104	62534	RD-5-10516-0P
2	4	4720-01-525-1960	62534	RD-5-10709-0P
2	5	4720-01-524-9153	62534	RD-5-10713-0P
2	6	4720-01-523-3955	62534	RD-5-10507-600P
2	7	5331-01-524-9812	62534	RD-5-11016-0P
2	8	4730-01-523-7227	62534	RD-5-10510-0P
2	9	4720-01-525-4326	62534	RD-5-10710-0P
2	10	4720-01-525-0347	62534	RD-5-10714-0P
2	11	4720-01-523-5941	62534	RD-5-10505-600P
2	12	4720-01-523-9231	62534	RD-5-10504-600P
2	13	5331-01-524-7872	62534	RD-5-11017-0P
2	14	4730-01-523-9527	62534	RD-5-10574-0P
2	15	4720-01-524-8886	62534	RD-5-10712-0P
2	16	4730-01-524-9089	62534	RD-5-10716-0P
2	17	4710-01-523-3734	62534	RD-4-5879-0P
2	18	4710-01-523-7739	62534	RD-4-5878-0P
2	19	5930-01-523-8574	62534	RD-5-11446-0P
2	20	5930-01-524-7887	62534	RD-5-11064-0P
2	21	4730-01-523-8622	62534	RD-5-10520-0P
2	22	4130-01-521-5745	62534	RD-5-11435-0P
2	23	4730-01-526-5020	62534	RD-5-4035-52
2	24	5305-01-525-8598	62534	RD-5-11433-1-20
2	25	5310-01-525-8498	62534	RD-5-4215-0
2	26	4520-01-525-8636	62534	RD-4-5926-1
2	27	5305-01-517-9281	62534	RD-5-4556-1
2	28	5310-01-525-8013	62534	RD-5-6872-0M
2	29	4730-01-523-3729	62534	RD-5-6600-0P
2	30	5340-01-526-3469	62534	RD-9-10027-0
2	31	5310-01-526-4993	62534	RD-5-6139-0
2	32	5305-01-525-8583	62534	RD-5-6250-0-55
2	33	5305-01-525-8603	62534	RD-5-6250-0-30
2	34	5310-01-525-8620	62534	RD-5-9377-0
2	35	3020-01-524-2457	62534	RD-5-11409-0P
2	36	5305-01-529-8139	62534	RD-5-6250-0-50
2	37	5310-01-525-6841	62534	RD-5-6261-0
2	38	5310-01-525-9051	62534	RD-5-6260-0
2	39	5305-01-526-0983	62534	RD-5-6141-0-130
2	40	2920-01-256-5910	62534	RD-9-10032-0
2	41	5365-01-525-8531	62534	RD-5-6296-.750
2	42	3030-01-524-2455	62534	RD-5-11406-0P
2	43	4130-01-521-7816	62534	RD-5-11393-0P
2	44	4730-01-523-6296	62534	RD-5-10525-0P
2	45	4730-01-523-4950	62534	RD-5-10517-0P
2	46	5325-01-524-8831	62534	RD-5-4053-0P

**CROSS REFERENCE INDEXES  
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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
2	47	5340-01-523-1579	62534	RD-4-5917-1P
2	48	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
2	49	5310-01-523-3710	62534	RD-5-11388-0
2	50	5340-01-523-7598	62534	RD-4-5916-0
2	51	5310-01-523-2651	62534	RD-5-11392-0
2	52	2540-01-521-7737	62534	RD-2-4158-0P
2	53	5305-01-524-9553	62534	RD-5-6675-0- 1.000
2	54	5340-01-523-3961	62534	RD-2-4221-0P
2	55	5310-01-526-0689	62534	RD-5-11389-0
2	56	5306-01-525-8566	62534	RD-5-11390-0- 2.500
2	57	5305-01-523-2459	62534	RD-5-5351-1-25
2	58	5340-01-523-1682	62534	RD-2-4219-0P
2	59	5310-01-533-4006	62534	RD-5-4043
2	60	5310-01-525-8946	62534	RD-5-10818-0
2	61	4730-01-523-4097	62534	RD-5-5901-0P
2	62	4720-01-532-9536	62534	RD-5-6532-24P
2	63	TBD	62534	RD-5-6666-0
2	64	4730-01-520-5375	62534	RD-5-7196-0
2	65	2540-01-526-8372	62534	RD-2-4162-0
2	66	5340-01-526-4976	62534	RD-2-4140-0
2	67	5340-01-523-3707	62534	RD-2-4220-0P
2	68	6150-01-521-7661	62534	RD-2-4156-0P
2	69	5975-01-524-9811	62534	RD-5-4137-0M
2	70	6150-01-525-1625	62534	RD-2-4160-0P
2	71	6150-01-525-3955	62534	RD-2-4163-0P
2	72	6150-01-533-0936	62534	RD-4-5958-0P
2	73	TBD	62534	RD-2-4115
2	74	5305-01-523-2459	62534	RD-5-5351-1-25
2	75	5340-01-523-6753	62534	RD-2-4222-0P
2	76	5340-01-523-8425	62534	RD-2-4116-0
2	77	5925-01-521-7620	62534	RD-5-11437-0P
2	78	5310-01-525-2737	62534	RD-5-4133-0M
2	79	5340-01-523-1015	62534	RD-2-4222-1
2	80	5325-01-524-8831	62534	RD-5-4053-0P
2	81	5340-01-523-2793	62534	RD-2-4122-0P
2	82	5330-01-523-3722	62534	RD-2-4136-0P
2	83	5340-01-523-3992	62534	RD-2-4128-0P
2	84	5305-01-524-2260	62534	RD-5-7213-1- .375
2	85	5340-01-524-1893	62534	RD-2-4142-0
2	86	4820-01-517-7304	62534	RD-5-11438-0P
2	87	TBD	62534	RD-5-5679-0P
2	88	5305-01-517-9757	62534	RD-5-5743-0-40
2	89	5331-01-524-9812	62534	RD-5-11016-0P

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FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
2	90	5340-01-524-2263	62534	RD-5-8410-0
2	91	5331-01-524-7872	62534	RD-5-11017-0P
2	92	5340-01-517-8600	62534	RD-5-6239-0
2	93	5320-01-520-5086	62534	RD-5-5345-0
2	94	5330-01-523-3964	62534	RD-2-4149-0P
2	95	4130-01-521-7486	62534	RD-2-4132-0P
2	96	4130-01-521-6442	62534	RD-2-4129-0P
2	97	2540-01-521-7709	62534	RD-2-4169-0P
2	98	2540-01-536-0012	62534	RD-5-5223-2
2	99	4520-01-532-4463	62534	RD-2-4131-0P
2	100	5305-01-525-2716	62534	RD-5-5260-0- .750M
2	101	2540-01-536-0113	62534	RD-2-4152-0P
2	102	5305-01-517-9281	62534	RD-5-4556-1
2	103	5305-01-523-1947	62534	RD-5-10825-1-16
2	104	5310-01-523-1558	62534	RD-5-4544-0
2	105	5340-01-523-1985	62534	RD-2-4126-0P
2	106	4140-01-521-8532	62534	RD-5-11436-0P
2	107	5945-01-522-9738	62534	RD-5-4417-0P
2	108	5915-01-521-6706	62534	RD-5-11445-0P
2	109	6685-01-517-4892	62534	RD-5-11440-0P
2	110	4710-01-523-0548	62534	RD-5-3816-16P
2	111	5340-01-523-3993	62534	RD-2-4150-0P
2	112	5305-01-523-1009	62534	RD-5-5630-1-20M
2	113	6150-01-521-4634	62534	RD-2-4153-0P
2	114	4140-01-521-5780	62534	RD-4-5877-0P
2	115	5970-01-523-3109	62534	RD-5-7357-8.5P
2	116	4140-01-521-6422	62534	RD-5-8785-3P
2	117	5305-01-523-1683	62534	RD-5-8980-1-20
2	118	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
2	119	5310-01-523-3710	62534	RD-5-11388-0
2	120	5340-01-524-4491	62534	RD-4-59140P
2	121	5340-01-523-6759	62534	RD-4-5899-1P
2	122	4130-01-521-5757	62534	RD-4-5857-0P
2	123	2510-01-523-3685	62534	RD-4-5921-0P
2	124	TBD	62534	RD-5-5679-0P
2	125	5330-01-523-3709	62534	RD-4-5947-0P
2	126	TBD	62534	RD-5-7212-1- .375
2	127	5340-01-523-2408	62534	RD-4-5886-0P
2	128	5915-01-521-6706	62534	RD-5-11445-0P
2	129	5340-01-525-1931	62534	RD-4-5968-0P
2	130	5305-01-517-9283	62534	RD-5-8222-1-16
2	131	5340-01-523-2444	62534	RD-4-5875-0P
2	132	5310-01-523-2651	62534	RD-5-11392-0
2	133	2510-01-523-3670	62534	RD-4-59220P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
2	134	5340-01-525-1963	62534	RD-4-5951-0P
2	135	5340-01-524-1884	62534	RD-4-5893-1P
2	136	6150-01-521-5712	62534	RD-4-5913-0P
3	1	4130-01-523-3966	62534	RD-2-4233-0
3	2	5340-01-523-3687	62534	RD-4-5969-0
3	3	5305-01-523-1683	62534	RD-5-6326-0P
3	4	5305-01-523-2459	62534	RD-5-5351-1-25
3	5	5310-01-533-4006	62534	RD-5-4043
3	6	5310-01-525-8946	62534	RD-5-10818-0
3	7	5331-01-524-9812	62534	RD-5-11016-0P
3	8	5331-01-525-1903	62534	RD-5-11015-0P
3	9	4730-01-523-4950	62534	RD-5-10517-0P
3	10	4730-01-523-8622	62534	RD-5-10520-0P
3	11	4720-01-525-4326	62534	RD-5-10710-0P
3	12	4720-01-525-1960	62534	RD-5-10709-0P
3	13	4720-01-525-0347	62534	RD-5-10714-0P
3	14	4720-01-524-9153	62534	RD-5-10713-0P
3	15	5340-01-523-3961	62534	RD-2-4221-0P
3	16	5310-01-526-0689	62534	RD-5-11389-0
3	17	5310-01-523-3710	62534	RD-5-11388-0
3	18	5306-01-525-8566	62534	RD-5-11390-0- 2.500
3	19	4720-01-523-9231	62534	RD-5-10504-600P
3	20	4710-01-523-7739	62534	RD-4-5878-0P
3	21	4730-01-523-3729	62534	RD-5-6600-0P
3	22	5310-01-525-8013	62534	RD-5-6872-0M
3	23	5305-01-517-9281	62534	RD-5-4556-1
3	24	4730-01-529-9380	62534	RD-5-4400-0
3	25	5305-01-525-7700	62534	RD-5-5743-0-30
3	26	5930-01-524-7887	62534	RD-5-11064-0P
3	27	5930-01-523-8574	62534	RD-5-11446-0P
3	28	4130-01-521-5745	62534	RD-5-11435-0P
3	29	4730-01-526-5020	62534	RD-5-4035-52
3	30	5340-01-524-8775	62534	RD-4-5949-0P
3	31	5310-01-523-2651	62534	RD-5-11392-0
3	32	4520-01-525-8636	62534	RD-4-5926-1
3	33	5310-01-525-8498	62534	RD-5-4215-0
3	34	5305-01-525-8598	62534	RD-5-11433-1-20
3	35	4720-01-523-5941	62534	RD-5-10505-600P
3	36	4710-01-523-3734	62534	RD-4-5879-0P
3	37	5340-01-523-3707	62534	RD-2-4220-0P
3	38	5340-01-526-4976	62534	RD-2-4140-0
3	39	4720-01-523-0403	62534	RD-5-3930-60P
3	40	5331-01-524-7872	62534	RD-5-11017-0P
3	41	4730-01-523-9527	62534	RD-5-10574-0P
3	42	4720-01-524-8886	62534	RD-5-10712-0P
3	43	4730-01-524-9089	62534	RD-5-10716-0P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
3	44	4720-01-523-3955	62534	RD-5-10507-600P
3	45	5340-01-523-1682	62534	RD-2-4219-0P
3	46	4730-01-520-5375	62534	RD-5-7196-0
3	47	TBD	62534	RD-5-6666-0
3	48	4720-01-532-9536	62534	RD-5-6532-24P
3	49	4730-01-523-4097	62534	RD-5-5901-0P
3	50	2540-01-521-7737	62534	RD-2-4158-0P
3	51	5305-01-524-9553	62534	RD-5-6675-0- 1.000
3	52	5340-01-526-3469	62534	RD-9-10027-0
3	53	5310-01-526-4993	62534	RD-5-6139-0
3	54	5305-01-525-8583	62534	RD-5-6250-0-55
3	55	5305-01-525-8603	62534	RD-5-6250-0-30
3	56	5310-01-525-8620	62534	RD-5-9377-0
3	57	3020-01-524-2457	62534	RD-5-11409-0P
3	58	5305-01-529-8139	62534	RD-5-6250-0-50
3	59	5310-01-525-6841	62534	RD-5-6261-0
3	60	5310-01-525-9051	62534	RD-5-6260-0
3	61	5305-01-526-0983	62534	RD-5-6141-0-130
3	62	2920-01-256-5910	62534	RD-9-10032-0
3	63	5365-01-525-8531	62534	RD-5-6296-.750
3	64	3030-01-524-2455	62534	RD-5-11406-0P
3	65	4130-01-521-7816	62534	RD-5-11393-0P
3	66	4730-01-523-6296	62534	RD-5-10525-0P
3	67	5325-01-524-8831	62534	RD-5-4053-0P
3	68	5340-01-525-8661	62534	RD-2-4167-1
3	69	2540-01-526-8372	62534	RD-2-4162-0
3	70	TBD	62534	RD-5-6676-8
3	71	6150-01-521-7661	62534	RD-2-4156-0P
3	72	5975-01-524-9811	62534	RD-5-4137-0M
3	73	6150-01-525-1625	62534	RD-2-4160-0P
3	74	6150-01-525-3955	62534	RD-2-4163-0P
3	75	6150-01-533-0936	62534	RD-4-5958-0P
3	76	TBD	62534	RD-2-4115
3	77	5305-01-523-2459	62534	RD-5-5351-1-25
3	78	5340-01-523-6753	62534	RD-2-4222-0P
3	79	5340-01-523-8425	62534	RD-2-4116-0
3	80	5925-01-521-7620	62534	RD-5-11437-0P
3	81	5310-01-525-2737	62534	RD-5-4133-0M
3	82	5340-01-523-1015	62534	RD-2-4222-1
3	83	5325-01-524-8831	62534	RD-5-4053-0P
3	84	5340-01-523-2793	62534	RD-2-4122-0P
3	85	5330-01-523-3722	62534	RD-2-4136-0P
3	86	5340-01-523-3992	62534	RD-2-4128-0P
3	87	5305-01-524-2260	62534	RD-5-7213-1- .375
3	88	5340-01-524-1893	62534	RD-2-4142-0



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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
3	89	4820-01-517-7304	62534	RD-5-11438-0P
3	90	TBD	62534	RD-5-5679-0P
3	91	5305-01-517-9757	62534	RD-5-5743-0-40
3	92	5331-01-524-9812	62534	RD-5-11016-0P
3	93	5340-01-524-2263	62534	RD-5-8410-0
3	94	5331-01-524-7872	62534	RD-5-11017-0P
3	95	5340-01-517-8600	62534	RD-5-6239-0
3	96	5320-01-520-5086	62534	RD-5-5345-0
3	97	5330-01-523-3964	62534	RD-2-4149-0P
3	98	4130-01-521-7486	62534	RD-2-4132-0P
3	99	4130-01-521-6442	62534	RD-2-4129-0P
3	100	2540-01-521-7709	62534	RD-2-4169-0P
3	101	2540-01-536-0012	62534	RD-5-5223-2
3	102	4520-01-532-4463	62534	RD-2-4131-0P
3	103	5305-01-525-2716	62534	RD-5-5260-0- .750M
3	104	2540-01-536-0113	62534	RD-2-4152-0P
3	105	5305-01-517-9281	62534	RD-5-4556-1
3	106	5305-01-523-1947	62534	RD-5-10825-1-16
3	107	5310-01-523-1558	62534	RD-5-4544-0
3	108	5340-01-523-1985	62534	RD-2-4126-0P
3	109	4140-01-521-8532	62534	RD-5-11436-0P
3	110	5945-01-522-9738	62534	RD-5-4417-0P
3	111	5915-01-521-6706	62534	RD-5-11445-0P
3	112	6685-01-517-4892	62534	RD-5-11440-0P
3	113	4710-01-523-0548	62534	RD-5-3816-16P
3	114	5340-01-523-3993	62534	RD-2-4150-0P
3	115	5305-01-523-1009	62534	RD-5-5630-1-20M
3	116	6150-01-521-4634	62534	RD-2-4153-0P
3	117	4140-01-521-5780	62534	RD-4-5877-0P
3	118	5970-01-523-3109	62534	RD-5-7357-8.5P
3	119	4140-01-521-6422	62534	RD-5-8785-3P
3	120	5305-01-523-1683	62534	RD-5-8980-1-20
3	121	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
3	122	5310-01-523-3710	62534	RD-5-11388-0
3	123	5340-01-524-4491	62534	RD-4-59140P
3	124	5340-01-523-6759	62534	RD-4-5899-1P
3	125	4130-01-521-5757	62534	RD-4-5857-0P
3	126	2510-01-523-3685	62534	RD-4-5921-0P
3	127	TBD	62534	RD-5-5679-0P
3	128	5330-01-523-3709	62534	RD-4-5947-0P
3	129	TBD	62534	RD-5-7212-1- .375
3	130	5340-01-523-2408	62534	RD-4-5886-0P
3	131	5915-01-521-6706	62534	RD-5-11445-0P
3	132	5340-01-525-1931	62534	RD-4-5968-0P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
3	133	5305-01-517-9283	62534	RD-5-8222-1-16
3	134	5340-01-523-2444	62534	RD-4-5875-0P
3	135	5310-01-523-2651	62534	RD-5-11392-0
3	136	2510-01-523-3670	62534	RD-4-59220P
3	137	5340-01-525-1963	62534	RD-4-5951-0P
3	138	5340-01-524-1884	62534	RD-4-5893-1P
3	139	6150-01-521-5712	62534	RD-4-5913-0P
4	1	4130-01-523-3966	62534	RD-2-4233-0
4	2	5340-01-523-3687	62534	RD-4-5969-0
4	4	5305-01-523-2459	62534	RD-5-5351-1-25
4	5	5310-01-533-4006	62534	RD-5-4043
4	6	5310-01-525-8946	62534	RD-5-10818-0
4	7	5331-01-524-9812	62534	RD-5-11016-0P
4	8	5331-01-525-1903	62534	RD-5-11015-0P
4	9	4730-01-525-4521	62534	RD-5-10522-0P
4	10	4730-01-523-8622	62534	RD-5-10520-0P
4	11	4720-01-525-4326	62534	RD-5-10710-0P
4	12	4720-01-525-1960	62534	RD-5-10709-0P
4	13	4720-01-525-0347	62534	RD-5-10714-0P
4	14	4720-01-524-9153	62534	RD-5-10713-0P
4	15	5340-01-523-3961	62534	RD-2-4221-0P
4	16	5310-01-526-0689	62534	RD-5-11389-0
4	17	5310-01-523-3710	62534	RD-5-11388-0
4	18	5306-01-525-8566	62534	RD-5-11390-0- 2.500
4	19	4720-01-523-9231	62534	RD-5-10504-600P
4	20	4710-01-523-7739	62534	RD-4-5878-0P
4	21	4730-01-523-3729	62534	RD-5-6600-0P
4	22	5310-01-525-8013	62534	RD-5-6872-0M
4	23	5305-01-517-9281	62534	RD-5-4556-1
4	24	4730-01-529-9380	62534	RD-5-4400-0
4	25	5305-01-525-7700	62534	RD-5-5743-0-30
4	26	5930-01-524-7887	62534	RD-5-11064-0P
4	27	5930-01-523-8574	62534	RD-5-11446-0P
4	28	4130-01-521-5745	62534	RD-5-11435-0P
4	29	4730-01-526-5020	62534	RD-5-4035-52
4	30	5340-01-524-8775	62534	RD-4-5949-0P
4	31	5310-01-523-2651	62534	RD-5-11392-0
4	32	4520-01-525-8636	62534	RD-4-5926-1
4	33	5310-01-525-8498	62534	RD-5-4215-0
4	34	5305-01-525-8598	62534	RD-5-11433-1-20
4	35	4720-01-523-5941	62534	RD-5-10505-600P
4	36	4710-01-523-3734	62534	RD-4-5879-0P
4	37	5340-01-523-3707	62534	RD-2-4220-0P
4	38	5340-01-526-4976	62534	RD-2-4140-0
4	39	4720-01-523-0403	62534	RD-5-3930-60P
4	40	5331-01-524-7872	62534	RD-5-11017-0P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
4	41	4730-01-523-9527	62534	RD-5-10574-0P
4	42	4720-01-524-8886	62534	RD-5-10712-0P
4	43	4730-01-524-9089	62534	RD-5-10716-0P
4	44	4720-01-523-3955	62534	RD-5-10507-600P
4	45	5340-01-523-1682	62534	RD-2-4219-0P
4	46	4730-01-520-5375	62534	RD-5-7196-0
4	47	TBD	62534	RD-5-6666-0
4	48	4720-01-532-9536	62534	RD-5-6532-24P
4	49	4730-01-523-4097	62534	RD-5-5901-0P
4	50	2540-01-521-7737	62534	RD-2-4158-0P
4	51	5305-01-524-9553	62534	RD-5-6675-0- 1.000
4	52	4730-01-523-6296	62534	RD-5-10525-0P
4	53	5325-01-524-8831	62534	RD-5-4053-0P
4	54	5340-01-525-8661	62534	RD-2-4167-1
4	55	2540-01-526-8372	62534	RD-2-4162-0
4	56	TBD	62534	RD-5-6676-8
4	57	4130-01-521-7816	62534	RD-5-11393-0P
4	58	5340-01-529-7711	62534	RD-9-10008-0
4	59	5305-01-529-7949	62534	RD-5-6250-0-40
4	60	5310-01-525-9051	62534	RD-5-6260-0
4	61	5305-01-526-0983	62534	RD-5-6141-0-130
4	62	5340-01-529-5527	62534	RD-9-10006-0
4	63	5310-01-526-4993	62534	RD-5-6139-0
4	64	5305-01-529-8457	62534	RD-5-6141-0-25
4	65	5307-01-529-5644	62534	RD-5-11397-0- 35-30
4	66	5307-01-529-7212	62534	RD-5-11397-0- 30-20
4	67	5305-01-529-7316	62534	RD-5-6250-0-35
4	68	3020-01-529-8066	62534	RD-9-10054-0
4	69	5310-01-525-8620	62534	RD-5-9377-0
4	70	5306-01-529-7375	62534	RD-5-11390-0- 2.250
4	71	3030-01-524-2451	62534	RD-5-11396-0P
4	72	5305-01-529-5657	62534	RD-5-6250-0-60
4	73	TBD	62534	RD-9-10034-0
4	74	5340-01-529-7655	62534	RD-9-10036-0
4	75	5305-01-529-8139	62534	RD-5-6250-0-50
4	76	3030-01-524-2460	62534	RD-5-11792-0P
4	77	6150-01-521-7661	62534	RD-2-4156-0P
4	78	5975-01-524-9811	62534	RD-5-4137-0M
4	79	6150-01-525-1625	62534	RD-2-4160-0P
4	80	6150-01-525-3955	62534	RD-2-4163-0P
4	81	6150-01-533-0936	62534	RD-4-5958-0P
4	82	TBD	62534	RD-2-4115
4	83	5305-01-523-2459	62534	RD-5-5351-1-25

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
4	84	5340-01-523-6753	62534	RD-2-4222-0P
4	85	5340-01-523-8425	62534	RD-2-4116-0
4	86	5925-01-521-7620	62534	RD-5-11437-0P
4	87	5310-01-525-2737	62534	RD-5-4133-0M
4	88	5340-01-523-1015	62534	RD-2-4222-1
4	89	5325-01-524-8831	62534	RD-5-4053-0P
4	90	5340-01-523-2793	62534	RD-2-4122-0P
4	91	5330-01-523-3722	62534	RD-2-4136-0P
4	92	5340-01-523-3992	62534	RD-2-4128-0P
4	93	5305-01-524-2260	62534	RD-5-7213-1- .375
4	94	5340-01-524-1893	62534	RD-2-4142-0
4	95	4820-01-517-7304	62534	RD-5-11438-0P
4	96	TBD	62534	RD-5-5679-0P
4	97	5305-01-517-9757	62534	RD-5-5743-0-40
4	98	5331-01-524-9812	62534	RD-5-11016-0P
4	99	5340-01-524-2263	62534	RD-5-8410-0
4	100	5331-01-524-7872	62534	RD-5-11017-0P
4	101	5340-01-517-8600	62534	RD-5-6239-0
4	102	5320-01-520-5086	62534	RD-5-5345-0
4	103	5330-01-523-3964	62534	RD-2-4149-0P
4	104	4130-01-521-7486	62534	RD-2-4132-0P
4	105	4130-01-521-6442	62534	RD-2-4129-0P
4	106	2540-01-521-7709	62534	RD-2-4169-0P
4	107	2540-01-536-0012	62534	RD-5-5223-2
4	108	4520-01-532-4463	62534	RD-2-4131-0P
4	109	5305-01-525-2716	62534	RD-5-5260-0- .750M
4	110	2540-01-536-0113	62534	RD-2-4152-0P
4	111	5305-01-517-9281	62534	RD-5-4556-1
4	112	5305-01-523-1947	62534	RD-5-10825-1-16
4	113	5310-01-523-1558	62534	RD-5-4544-0
4	114	5340-01-523-1985	62534	RD-2-4126-0P
4	115	4140-01-521-8532	62534	RD-5-11436-0P
4	116	5945-01-522-9738	62534	RD-5-4417-0P
4	117	5915-01-521-6706	62534	RD-5-11445-0P
4	118	6685-01-517-4892	62534	RD-5-11440-0P
4	119	4710-01-523-0548	62534	RD-5-3816-16P
4	120	5340-01-523-3993	62534	RD-2-4150-0P
4	121	5305-01-523-1009	62534	RD-5-5630-1-20M
4	122	6150-01-521-4634	62534	RD-2-4153-0P
4	123	4140-01-521-5780	62534	RD-4-5877-0P
4	124	5970-01-523-3109	62534	RD-5-7357-8.5P
4	125	4140-01-521-6422	62534	RD-5-8785-3P
4	126	5305-01-523-1683	62534	RD-5-8980-1-20
4	127	5306-01-523-1006	62534	RD-5-11390-0- 1.500M

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
4	128	5310-01-523-3710	62534	RD-5-11388-0
4	129	5340-01-524-4491	62534	RD-4-59140P
4	130	5340-01-523-6759	62534	RD-4-5899-1P
4	131	4130-01-521-5757	62534	RD-4-5857-0P
4	132	2510-01-523-3685	62534	RD-4-5921-0P
4	133	TBD	62534	RD-5-5679-0P
4	134	5330-01-523-3709	62534	RD-4-5947-0P
4	135	TBD	62534	RD-5-7212-1- .375
4	136	5340-01-523-2408	62534	RD-4-5886-0P
4	137	5915-01-521-6706	62534	RD-5-11445-0P
4	138	5340-01-525-1931	62534	RD-4-5968-0P
4	139	5305-01-517-9283	62534	RD-5-8222-1-16
4	140	5340-01-523-2444	62534	RD-4-5875-0P
4	141	5310-01-523-2651	62534	RD-5-11392-0
4	142	2510-01-523-3670	62534	RD-4-59220P
4	143	5340-01-525-1963	62534	RD-4-5951-0P
4	144	5340-01-524-1884	62534	RD-4-5893-1P
4	145	6150-01-521-5712	62534	RD-4-5913-0P
5	1	4130-01-523-3966	62534	RD-2-4233-0
5	2	5331-01-525-1903	62534	RD-5-11015-0P
5	3	4730-01-523-8622	62534	RD-5-10520-0P
5	4	4720-01-525-1960	62534	RD-5-10709-0P
5	5	4720-01-524-9153	62534	RD-5-10713-0P
5	6	4720-01-523-3955	62534	RD-5-10507-600P
5	7	5331-01-524-9812	62534	RD-5-11016-0P
5	8	4730-01-523-7227	62534	RD-5-10510-0P
5	9	4720-01-525-4326	62534	RD-5-10710-0P
5	10	4720-01-525-0347	62534	RD-5-10714-0P
5	11	4720-01-523-5941	62534	RD-5-10505-600P
5	12	4720-01-523-9231	62534	RD-5-10504-600P
5	13	5331-01-524-7872	62534	RD-5-11017-0P
5	14	4730-01-523-9527	62534	RD-5-10574-0P
5	15	4720-01-524-8886	62534	RD-5-10712-0P
5	16	4730-01-524-9089	62534	RD-5-10716-0P
5	17	4710-01-523-3734	62534	RD-4-5879-0P
5	18	4710-01-523-7739	62534	RD-4-5878-0P
5	19	5930-01-523-8574	62534	RD-5-11446-0P
5	20	5930-01-524-7887	62534	RD-5-11064-0P
5	21	4730-01-523-8622	62534	RD-5-10520-0P
5	22	4130-01-521-5745	62534	RD-5-11435-0P
5	23	4730-01-526-5020	62534	RD-5-4035-52
5	24	5305-01-525-8598	62534	RD-5-11433-1-20
5	25	5310-01-525-8498	62534	RD-5-4215-0
5	26	4520-01-525-8636	62534	RD-4-5926-1
5	27	5305-01-517-9281	62534	RD-5-4556-1
5	28	5310-01-525-8013	62534	RD-5-6872-0M

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
5	29	4730-01-523-3729	62534	RD-5-6600-0P
5	30	5340-01-526-3469	62534	RD-9-10027-0
5	31	5310-01-526-4993	62534	RD-5-6139-0
5	32	5305-01-525-8583	62534	RD-5-6250-0-55
5	33	5305-01-525-8603	62534	RD-5-6250-0-30
5	34	5310-01-525-8620	62534	RD-5-9377-0
5	35	3020-01-524-2457	62534	RD-5-11409-0P
5	36	5305-01-529-8139	62534	RD-5-6250-0-50
5	37	5310-01-525-6841	62534	RD-5-6261-0
5	38	5310-01-525-9051	62534	RD-5-6260-0
5	39	5305-01-526-0983	62534	RD-5-6141-0-130
5	40	2920-01-256-5910	62534	RD-9-10032-0
5	41	5365-01-525-8531	62534	RD-5-6296-.750
5	42	3030-01-524-2455	62534	RD-5-11406-0P
5	43	4130-01-521-7816	62534	RD-5-11393-0P
5	44	4730-01-523-6296	62534	RD-5-10525-0P
5	45	4730-01-523-4950	62534	RD-5-10517-0P
5	46	5325-01-524-8831	62534	RD-5-4053-0P
5	47	5340-01-523-1579	62534	RD-4-5917-1P
5	48	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
5	49	5310-01-523-3710	62534	RD-5-11388-0
5	50	5340-01-523-7598	62534	RD-4-5916-0
5	51	5310-01-523-2651	62534	RD-5-11392-0
5	52	2540-01-521-7737	62534	RD-2-4158-0P
5	53	5305-01-524-9553	62534	RD-5-6675-0- 1.000
5	54	5340-01-523-3961	62534	RD-2-4221-0P
5	55	5310-01-526-0689	62534	RD-5-11389-0
5	56	5306-01-525-8566	62534	RD-5-11390-0- 2.500
5	57	5305-01-523-2459	62534	RD-5-5351-1-25
5	58	5340-01-523-1682	62534	RD-2-4219-0P
5	59	5310-01-533-4006	62534	RD-5-4043
5	60	5310-01-525-8946	62534	RD-5-10818-0
5	61	4730-01-523-4097	62534	RD-5-5901-0P
5	62	4720-01-532-9536	62534	RD-5-6532-24P
5	63	TBD	62534	RD-5-6666-0
5	64	4730-01-520-5375	62534	RD-5-7196-0
5	65	2540-01-526-8372	62534	RD-2-4162-0
5	66	5340-01-526-4976	62534	RD-2-4140-0
5	67	5340-01-523-3707	62534	RD-2-4220-0P
5	68	6150-01-521-7661	62534	RD-2-4156-0P
5	69	5975-01-524-9811	62534	RD-5-4137-0M
5	70	6150-01-525-1625	62534	RD-2-4160-0P
5	71	6150-01-525-3955	62534	RD-2-4163-0P
5	72	6150-01-533-0936	62534	RD-4-5958-0P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
5	73	TBD	62534	RD-2-4115
5	74	5305-01-523-2459	62534	RD-5-5351-1-25
5	75	5340-01-523-6753	62534	RD-2-4222-0P
5	76	5340-01-523-8425	62534	RD-2-4116-0
5	77	5925-01-521-7620	62534	RD-5-11437-0P
5	78	5310-01-525-2737	62534	RD-5-4133-0M
5	79	5340-01-523-1015	62534	RD-2-4222-1
5	80	5325-01-524-8831	62534	RD-5-4053-0P
5	81	5340-01-523-2793	62534	RD-2-4122-0P
5	82	5330-01-523-3722	62534	RD-2-4136-0P
5	83	5340-01-523-3992	62534	RD-2-4128-0P
5	84	5305-01-524-2260	62534	RD-5-7213-1- .375
5	85	5340-01-524-1893	62534	RD-2-4142-0
5	86	4820-01-517-7304	62534	RD-5-11438-0P
5	87	TBD	62534	RD-5-5679-0P
5	88	5305-01-517-9757	62534	RD-5-5743-0-40
5	89	5331-01-524-9812	62534	RD-5-11016-0P
5	90	5340-01-524-2263	62534	RD-5-8410-0
5	91	5331-01-524-7872	62534	RD-5-11017-0P
5	92	5340-01-517-8600	62534	RD-5-6239-0
5	93	5320-01-520-5086	62534	RD-5-5345-0
5	94	5330-01-523-3964	62534	RD-2-4149-0P
5	95	4130-01-521-7486	62534	RD-2-4132-0P
5	96	4130-01-521-6442	62534	RD-2-4129-0P
5	97	2540-01-521-7709	62534	RD-2-4169-0P
5	98	2540-01-536-0012	62534	RD-5-5223-2
5	99	4520-01-532-4463	62534	RD-2-4131-0P
5	100	5305-01-525-2716	62534	RD-5-5260-0- .750M
5	101	2540-01-536-0113	62534	RD-2-4152-0P
5	102	5305-01-517-9281	62534	RD-5-4556-1
5	103	5305-01-523-1947	62534	RD-5-10825-1-16
5	104	5310-01-523-1558	62534	RD-5-4544-0
5	105	5340-01-523-1985	62534	RD-2-4126-0P
5	106	4140-01-521-8532	62534	RD-5-11436-0P
5	107	5945-01-522-9738	62534	RD-5-4417-0P
5	108	5915-01-521-6706	62534	RD-5-11445-0P
5	109	6685-01-517-4892	62534	RD-5-11440-0P
5	110	4710-01-523-0548	62534	RD-5-3816-16P
5	111	5340-01-523-3993	62534	RD-2-4150-0P
5	112	5305-01-523-1009	62534	RD-5-5630-1-20M
5	113	6150-01-521-4634	62534	RD-2-4153-0P
5	114	4140-01-521-5780	62534	RD-4-5877-0P
5	115	5970-01-523-3109	62534	RD-5-7357-8.5P
5	116	4140-01-521-6422	62534	RD-5-8785-3P
5	117	5305-01-523-1683	62534	RD-5-8980-1-20

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
5	118	5306-01-523-1006	62534	RD-5-11390-0-1.500M
5	119	5310-01-523-3710	62534	RD-5-11388-0
5	120	5340-01-524-4491	62534	RD-4-59140P
5	121	5340-01-523-6759	62534	RD-4-5899-1P
5	122	4130-01-521-5757	62534	RD-4-5857-0P
5	123	2510-01-523-3685	62534	RD-4-5921-0P
5	124	TBD	62534	RD-5-5679-0P
5	125	5330-01-523-3709	62534	RD-4-5947-0P
5	126	TBD	62534	RD-5-7212-1-.375
5	127	5340-01-523-2408	62534	RD-4-5886-0P
5	128	5915-01-521-6706	62534	RD-5-11445-0P
5	129	5340-01-525-1931	62534	RD-4-5968-0P
5	130	5305-01-517-9283	62534	RD-5-8222-1-16
5	131	5340-01-523-2444	62534	RD-4-5875-0P
5	132	5310-01-523-2651	62534	RD-5-11392-0
5	133	2510-01-523-3670	62534	RD-4-59220P
5	134	5340-01-525-1963	62534	RD-4-5951-0P
5	135	5340-01-524-1884	62534	RD-4-5893-1P
5	136	6150-01-521-5712	62534	RD-4-5913-0P
6	1	4130-01-523-3966	62534	RD-2-4233-0
6	2	5331-01-525-1903	62534	RD-5-11015-0P
6	3	4730-01-523-8622	62534	RD-5-10520-0P
6	4	4720-01-525-1960	62534	RD-5-10709-0P
6	5	4720-01-524-9153	62534	RD-5-10713-0P
6	6	4720-01-523-3955	62534	RD-5-10507-600P
6	7	5331-01-524-9812	62534	RD-5-11016-0P
6	8	4730-01-523-7227	62534	RD-5-10510-0P
6	9	4720-01-525-4326	62534	RD-5-10710-0P
6	10	4720-01-525-0347	62534	RD-5-10714-0P
6	11	4720-01-523-5941	62534	RD-5-10505-600P
6	12	4720-01-523-9231	62534	RD-5-10504-600P
6	13	5331-01-524-7872	62534	RD-5-11017-0P
6	14	4730-01-523-9527	62534	RD-5-10574-0P
6	15	4720-01-524-8886	62534	RD-5-10712-0P
6	16	4730-01-524-9089	62534	RD-5-10716-0P
6	17	4710-01-523-3734	62534	RD-4-5879-0P
6	18	4710-01-523-7739	62534	RD-4-5878-0P
6	19	5930-01-523-8574	62534	RD-5-11446-0P
6	20	5930-01-524-7887	62534	RD-5-11064-0P
6	21	4730-01-523-8622	62534	RD-5-10520-0P
6	22	4130-01-521-5745	62534	RD-5-11435-0P
6	23	4730-01-526-5020	62534	RD-5-4035-52
6	24	5305-01-525-8598	62534	RD-5-11433-1-20
6	25	5310-01-525-8498	62534	RD-5-4215-0
6	26	4520-01-525-8636	62534	RD-4-5926-1



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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
6	27	5305-01-517-9281	62534	RD-5-4556-1
6	28	5310-01-525-8013	62534	RD-5-6872-0M
6	29	4730-01-523-3729	62534	RD-5-6600-0P
6	30	5340-01-526-3469	62534	RD-9-10027-0
6	31	5310-01-526-4993	62534	RD-5-6139-0
6	32	5305-01-525-8583	62534	RD-5-6250-0-55
6	33	5305-01-525-8603	62534	RD-5-6250-0-30
6	34	5310-01-525-8620	62534	RD-5-9377-0
6	35	3020-01-524-2457	62534	RD-5-11409-0P
6	36	5305-01-529-8139	62534	RD-5-6250-0-50
6	37	5310-01-525-6841	62534	RD-5-6261-0
6	38	5310-01-525-9051	62534	RD-5-6260-0
6	39	5305-01-526-0983	62534	RD-5-6141-0-130
6	40	2920-01-256-5910	62534	RD-9-10032-0
6	41	5365-01-525-8531	62534	RD-5-6296-.750
6	42	3030-01-524-2455	62534	RD-5-11406-0P
6	43	4130-01-521-7816	62534	RD-5-11393-0P
6	44	4730-01-523-6296	62534	RD-5-10525-0P
6	45	4730-01-523-4950	62534	RD-5-10517-0P
6	46	5325-01-524-8831	62534	RD-5-4053-0P
6	47	5340-01-523-1579	62534	RD-4-5917-1P
6	48	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
6	49	5310-01-523-3710	62534	RD-5-11388-0
6	50	5340-01-523-7598	62534	RD-4-5916-0
6	51	5310-01-523-2651	62534	RD-5-11392-0
6	52	2540-01-521-7737	62534	RD-2-4158-0P
6	53	5305-01-524-9553	62534	RD-5-6675-0- 1.000
6	54	5340-01-523-3961	62534	RD-2-4221-0P
6	55	5310-01-526-0689	62534	RD-5-11389-0
6	56	5306-01-525-8566	62534	RD-5-11390-0- 2.500
6	57	5305-01-523-2459	62534	RD-5-5351-1-25
6	58	5340-01-523-1682	62534	RD-2-4219-0P
6	59	5310-01-533-4006	62534	RD-5-4043
6	60	5310-01-525-8946	62534	RD-5-10818-0
6	61	4730-01-523-4097	62534	RD-5-5901-0P
6	62	4720-01-532-9536	62534	RD-5-6532-24P
6	63	TBD	62534	RD-5-6666-0
6	64	4730-01-520-5375	62534	RD-5-7196-0
6	65	2540-01-526-8372	62534	RD-2-4162-0
6	66	5340-01-526-4976	62534	RD-2-4140-0
6	67	5340-01-523-3707	62534	RD-2-4220-0P
6	68	6150-01-521-7661	62534	RD-2-4156-0P
6	69	5975-01-524-9811	62534	RD-5-4137-0M
6	70	6150-01-525-1625	62534	RD-2-4160-0P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
6	71	6150-01-525-3955	62534	RD-2-4163-0P
6	72	6150-01-533-0936	62534	RD-4-5958-0P
6	73	TBD	62534	RD-2-4115
6	74	5305-01-523-2459	62534	RD-5-5351-1-25
6	75	5340-01-523-6753	62534	RD-2-4222-0P
6	76	5340-01-523-8425	62534	RD-2-4116-0
6	77	5925-01-521-7620	62534	RD-5-11437-0P
6	78	5310-01-525-2737	62534	RD-5-4133-0M
6	79	5340-01-523-1015	62534	RD-2-4222-1
6	80	5325-01-524-8831	62534	RD-5-4053-0P
6	81	5340-01-523-2793	62534	RD-2-4122-0P
6	82	5330-01-523-3722	62534	RD-2-4136-0P
6	83	5340-01-523-3992	62534	RD-2-4128-0P
6	84	5305-01-524-2260	62534	RD-5-7213-1- .375
6	85	5340-01-524-1893	62534	RD-2-4142-0
6	86	4820-01-517-7304	62534	RD-5-11438-0P
6	87	TBD	62534	RD-5-5679-0P
6	88	5305-01-517-9757	62534	RD-5-5743-0-40
6	89	5331-01-524-9812	62534	RD-5-11016-0P
6	90	5340-01-524-2263	62534	RD-5-8410-0
6	91	5331-01-524-7872	62534	RD-5-11017-0P
6	92	5340-01-517-8600	62534	RD-5-6239-0
6	93	5320-01-520-5086	62534	RD-5-5345-0
6	94	5330-01-523-3964	62534	RD-2-4149-0P
6	95	4130-01-521-7486	62534	RD-2-4132-0P
6	96	4130-01-521-6442	62534	RD-2-4129-0P
6	97	2540-01-521-7709	62534	RD-2-4169-0P
6	98	2540-01-536-0012	62534	RD-5-5223-2
6	99	4520-01-532-4463	62534	RD-2-4131-0P
6	100	5305-01-525-2716	62534	RD-5-5260-0- .750M
6	101	2540-01-536-0113	62534	RD-2-4152-0P
6	102	5305-01-517-9281	62534	RD-5-4556-1
6	103	5305-01-523-1947	62534	RD-5-10825-1-16
6	104	5310-01-523-1558	62534	RD-5-4544-0
6	105	5340-01-523-1985	62534	RD-2-4126-0P
6	106	4140-01-521-8532	62534	RD-5-11436-0P
6	107	5945-01-522-9738	62534	RD-5-4417-0P
6	108	5915-01-521-6706	62534	RD-5-11445-0P
6	109	6685-01-517-4892	62534	RD-5-11440-0P
6	110	4710-01-523-0548	62534	RD-5-3816-16P
6	111	5340-01-523-3993	62534	RD-2-4150-0P
6	112	5305-01-523-1009	62534	RD-5-5630-1-20M
6	113	6150-01-521-4634	62534	RD-2-4153-0P
6	114	4140-01-521-5780	62534	RD-4-5877-0P
6	115	5970-01-523-3109	62534	RD-5-7357-8.5P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
6	116	4140-01-521-6422	62534	RD-5-8785-3P
6	117	5305-01-523-1683	62534	RD-5-8980-1-20
6	118	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
6	119	5310-01-523-3710	62534	RD-5-11388-0
6	120	5340-01-524-4491	62534	RD-4-59140P
6	121	5340-01-523-6759	62534	RD-4-5899-1P
6	122	4130-01-521-5757	62534	RD-4-5857-0P
6	123	2510-01-523-3685	62534	RD-4-5921-0P
6	124	TBD	62534	RD-5-5679-0P
6	125	5330-01-523-3709	62534	RD-4-5947-0P
6	126	TBD	62534	RD-5-7212-1- .375
6	127	5340-01-523-2408	62534	RD-4-5886-0P
6	128	5915-01-521-6706	62534	RD-5-11445-0P
6	129	5340-01-525-1931	62534	RD-4-5968-0P
6	130	5305-01-517-9283	62534	RD-5-8222-1-16
6	131	5340-01-523-2444	62534	RD-4-5875-0P
6	132	5310-01-523-2651	62534	RD-5-11392-0
6	133	2510-01-523-3670	62534	RD-4-59220P
6	134	5340-01-525-1963	62534	RD-4-5951-0P
6	135	5340-01-524-1884	62534	RD-4-5893-1P
6	136	6150-01-521-5712	62534	RD-4-5913-0P
7	1	4130-01-523-3966	62534	RD-2-4233-0
7	2	5331-01-525-1903	62534	RD-5-11015-0P
7	3	4730-01-524-5104	62534	RD-5-10516-0P
7	4	4720-01-525-1960	62534	RD-5-10709-0P
7	5	4720-01-524-9153	62534	RD-5-10713-0P
7	6	4720-01-523-3955	62534	RD-5-10507-600P
7	7	5331-01-524-9812	62534	RD-5-11016-0P
7	8	4730-01-523-7227	62534	RD-5-10510-0P
7	9	4720-01-525-4326	62534	RD-5-10710-0P
7	10	4720-01-525-0347	62534	RD-5-10714-0P
7	11	4720-01-523-5941	62534	RD-5-10505-600P
7	12	4720-01-523-9231	62534	RD-5-10504-600P
7	13	5331-01-524-7872	62534	RD-5-11017-0P
7	14	4730-01-523-9527	62534	RD-5-10574-0P
7	15	4720-01-524-8886	62534	RD-5-10712-0P
7	16	4730-01-524-9089	62534	RD-5-10716-0P
7	17	4710-01-523-3734	62534	RD-4-5879-0P
7	18	4710-01-523-7739	62534	RD-4-5878-0P
7	19	5930-01-523-8574	62534	RD-5-11446-0P
7	20	5930-01-524-7887	62534	RD-5-11064-0P
7	21	4730-01-523-8622	62534	RD-5-10520-0P
7	22	4130-01-521-5745	62534	RD-5-11435-0P
7	23	4730-01-526-5020	62534	RD-5-4035-52
7	24	5305-01-525-8598	62534	RD-5-11433-1-20

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
7	25	5310-01-525-8498	62534	RD-5-4215-0
7	26	4520-01-525-8636	62534	RD-4-5926-1
7	27	5305-01-517-9281	62534	RD-5-4556-1
7	28	5310-01-525-8013	62534	RD-5-6872-0M
7	29	4730-01-523-3729	62534	RD-5-6600-0P
7	30	4730-01-523-6296	62534	RD-5-10525-0P
7	31	4730-01-525-4521	62534	RD-5-10522-0P
7	32	5325-01-524-8831	62534	RD-5-4053-0P
7	33	4130-01-521-7816	62534	RD-5-11393-0P
7	34	5340-01-529-7711	62534	RD-9-10008-0
7	35	5305-01-529-7949	62534	RD-5-6250-0-40
7	36	5310-01-523-2651	62534	RD-5-11392-0
7	37	5310-01-525-9051	62534	RD-5-6260-0
7	38	5305-01-526-0983	62534	RD-5-6141-0-130
7	39	5340-01-529-5527	62534	RD-9-10006-0
7	40	5310-01-526-4993	62534	RD-5-6139-0
7	41	5305-01-529-8457	62534	RD-5-6141-0-25
7	42	5307-01-529-5644	62534	RD-5-11397-0- 35-30
7	43	5307-01-529-7212	62534	RD-5-11397-0- 30-20
7	44	5305-01-529-7316	62534	RD-5-6250-0-35
7	45	3020-01-529-8066	62534	RD-9-10054-0
7	46	5310-01-525-8620	62534	RD-5-9377-0
7	47	5306-01-529-7375	62534	RD-5-11390-0- 2.250
7	48	3030-01-524-2451	62534	RD-5-11396-0P
7	49	5305-01-529-5657	62534	RD-5-6250-0-60
7	50	TBD	62534	RD-9-10034-0
7	51	5340-01-529-7655	62534	RD-9-10036-0
7	52	5305-01-529-8139	62534	RD-5-6250-0-50
7	53	3030-01-524-2460	62534	RD-5-11792-0P
7	54	5340-01-523-1579	62534	RD-4-5917-1P
7	55	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
7	56	5310-01-523-3710	62534	RD-5-11388-0
7	57	5340-01-523-7598	62534	RD-4-5916-0
7	58	2540-01-521-7737	62534	RD-2-4158-0P
7	59	5305-01-524-9553	62534	RD-5-6675-0- 1.000
7	60	5340-01-523-3961	62534	RD-2-4221-0P
7	61	5310-01-526-0689	62534	RD-5-11389-0
7	62	5306-01-525-8566	62534	RD-5-11390-0- 2.500
7	63	5305-01-523-2459	62534	RD-5-5351-1-25
7	64	5340-01-523-1682	62534	RD-2-4219-0P
7	65	5310-01-533-4006	62534	RD-5-4043

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
7	66	5310-01-525-8946	62534	RD-5-10818-0
7	67	4730-01-523-4097	62534	RD-5-5901-0P
7	68	4720-01-532-9536	62534	RD-5-6532-24P
7	69	TBD	62534	RD-5-6666-0
7	70	4730-01-520-5375	62534	RD-5-7196-0
7	71	2540-01-526-8372	62534	RD-2-4162-0
7	72	5340-01-526-4976	62534	RD-2-4140-0
7	73	5340-01-523-3707	62534	RD-2-4220-0P
7	74	6150-01-521-7661	62534	RD-2-4156-0P
7	75	5975-01-524-9811	62534	RD-5-4137-0M
7	76	6150-01-525-1625	62534	RD-2-4160-0P
7	77	6150-01-525-3955	62534	RD-2-4163-0P
7	78	6150-01-533-0936	62534	RD-4-5958-0P
7	79	TBD	62534	RD-2-4115
7	80	5305-01-523-2459	62534	RD-5-5351-1-25
7	81	5340-01-523-6753	62534	RD-2-4222-0P
7	82	5340-01-523-8425	62534	RD-2-4116-0
7	83	5925-01-521-7620	62534	RD-5-11437-0P
7	84	5310-01-525-2737	62534	RD-5-4133-0M
7	85	5340-01-523-1015	62534	RD-2-4222-1
7	86	5325-01-524-8831	62534	RD-5-4053-0P
7	87	5340-01-523-2793	62534	RD-2-4122-0P
7	88	5330-01-523-3722	62534	RD-2-4136-0P
7	89	5340-01-523-3992	62534	RD-2-4128-0P
7	90	5305-01-524-2260	62534	RD-5-7213-1- .375
7	91	5340-01-524-1893	62534	RD-2-4142-0
7	92	4820-01-517-7304	62534	RD-5-11438-0P
7	93	TBD	62534	RD-5-5679-0P
7	94	5305-01-517-9757	62534	RD-5-5743-0-40
7	95	5331-01-524-9812	62534	RD-5-11016-0P
7	96	5340-01-524-2263	62534	RD-5-8410-0
7	97	5331-01-524-7872	62534	RD-5-11017-0P
7	98	5340-01-517-8600	62534	RD-5-6239-0
7	99	5320-01-520-5086	62534	RD-5-5345-0
7	100	5330-01-523-3964	62534	RD-2-4149-0P
7	101	4130-01-521-7486	62534	RD-2-4132-0P
7	102	4130-01-521-6442	62534	RD-2-4129-0P
7	103	2540-01-521-7709	62534	RD-2-4169-0P
7	104	2540-01-536-0012	62534	RD-5-5223-2
7	105	4520-01-532-4463	62534	RD-2-4131-0P
7	106	5305-01-525-2716	62534	RD-5-5260-0- .750M
7	107	2540-01-536-0113	62534	RD-2-4152-0P
7	108	5305-01-517-9281	62534	RD-5-4556-1
7	109	5305-01-523-1947	62534	RD-5-10825-1-16
7	110	5310-01-523-1558	62534	RD-5-4544-0

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
7	111	5340-01-523-1985	62534	RD-2-4126-0P
7	112	4140-01-521-8532	62534	RD-5-11436-0P
7	113	5945-01-522-9738	62534	RD-5-4417-0P
7	114	5915-01-521-6706	62534	RD-5-11445-0P
7	115	6685-01-517-4892	62534	RD-5-11440-0P
7	116	4710-01-523-0548	62534	RD-5-3816-16P
7	117	5340-01-523-3993	62534	RD-2-4150-0P
7	118	5305-01-523-1009	62534	RD-5-5630-1-20M
7	119	6150-01-521-4634	62534	RD-2-4153-0P
7	120	4140-01-521-5780	62534	RD-4-5877-0P
7	121	5970-01-523-3109	62534	RD-5-7357-8.5P
7	122	4140-01-521-6422	62534	RD-5-8785-3P
7	123	5305-01-523-1683	62534	RD-5-8980-1-20
7	124	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
7	125	5310-01-523-3710	62534	RD-5-11388-0
7	126	5340-01-524-4491	62534	RD-4-59140P
7	127	5340-01-523-6759	62534	RD-4-5899-1P
7	128	4130-01-521-5757	62534	RD-4-5857-0P
7	129	2510-01-523-3685	62534	RD-4-5921-0P
7	130	TBD	62534	RD-5-5679-0P
7	131	5330-01-523-3709	62534	RD-4-5947-0P
7	132	TBD	62534	RD-5-7212-1- .375
7	133	5340-01-523-2408	62534	RD-4-5886-0P
7	134	5915-01-521-6706	62534	RD-5-11445-0P
7	135	5340-01-525-1931	62534	RD-4-5968-0P
7	136	5305-01-517-9283	62534	RD-5-8222-1-16
7	137	5340-01-523-2444	62534	RD-4-5875-0P
7	138	5310-01-523-2651	62534	RD-5-11392-0
7	139	2510-01-523-3670	62534	RD-4-59220P
7	140	5340-01-525-1963	62534	RD-4-5951-0P
7	141	5340-01-524-1884	62534	RD-4-5893-1P
7	142	6150-01-521-5712	62534	RD-4-5913-0P
8	1	4130-01-530-6880	62534	RD-2-4399-0
8	2	TBD	62534	RD-4-6077-0
8	3	TBD	62534	RD-4-5946-0
8	4	5340-01-525-1253	62534	RD-4-5972-1P
8	5	5310-01-533-4006	62534	RD-5-4043
8	6	5305-01-523-2459	62534	RD-5-5351-1-25
8	7	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
8	8	5310-01-526-0689	62534	RD-5-11389-0
8	9	5310-01-523-2651	62534	RD-5-11392-0
8	10	5310-01-525-8946	62534	RD-5-10818-0
8	11	5340-01-525-9799	62534	RD-4-5952-1P
8	12	2540-01-521-7737	62534	RD-2-4158-0P

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
8	13	5305-01-524-9553	62534	RD-5-6675-0- 1.000
8	14	TBD	62534	RD-5-6680-0
8	15	5340-01-524-8857	62534	RD-2-4207-1P
8	16	4730-01-526-5020	62534	RD-5-4035-52
8	17	5340-01-525-1952	62534	RD-2-4208-1P
8	18	4720-01-523-0403	62534	RD-5-3930-60P
8	19	5340-01-525-8155	62534	RD-2-4165-1
8	20	5305-01-523-1947	62534	RD-5-10825-1-16
8	21	2540-01-526-8372	62534	RD-2-4162-0
8	22	2540-01-523-3654	62534	RD-5-6676-60
8	23	5340-01-525-8661	62534	RD-2-4167-1
8	24	TBD	62534	RD-5-6865-0
8	25	TBD	62534	RD-2-4250-0
8	26	5331-01-525-1903	62534	RD-5-11015-0P
8	27	4730-01-525-1956	62534	RD-5-10537-0P
8	28	4720-01-525-1960	62534	RD-5-10709-0P
8	29	4720-01-524-9153	62534	RD-5-10713-0P
8	30	4720-01-523-9231	62534	RD-5-10504-600P
8	31	5340-01-525-3875	62534	RD-2-4216-1P
8	32	5331-01-524-9812	62534	RD-5-11016-0P
8	33	4730-01-525-4521	62534	RD-5-10522-0P
8	34	4720-01-525-4326	62534	RD-5-10710-0P
8	35	4720-01-525-0347	62534	RD-5-10714-0P
8	36	4730-01-523-3729	62534	RD-5-6600-0P
8	37	4720-01-523-5941	62534	RD-5-10505-600P
8	38	5340-01-524-9120	62534	RD-2-4214-1P
8	39	5331-01-524-7872	62534	RD-5-11017-0P
8	40	4730-01-524-7449	62534	RD-5-10541-0P
8	41	4720-01-524-8886	62534	RD-5-10712-0P
8	42	4730-01-524-9089	62534	RD-5-10716-0P
8	43	4730-01-525-0178	62534	RD-5-10705-0P
8	44	4720-01-523-3955	62534	RD-5-10507-600P
8	45	5310-01-525-9051	62534	RD-5-6260-0
8	46	5305-01-526-0983	62534	RD-5-6141-0-130
8	47	2920-01-256-5910	62534	RD-9-10032-0
8	48	5365-01-525-8531	62534	RD-5-6296-.750
8	49	5340-01-526-3469	62534	RD-9-10027-0
8	50	5310-01-526-4993	62534	RD-5-6139-0
8	51	5305-01-525-8583	62534	RD-5-6250-0-55
8	52	5305-01-525-8603	62534	RD-5-6250-0-30
8	53	5310-01-525-8620	62534	RD-5-9377-0
8	54	5310-01-525-6841	62534	RD-5-6261-0
8	55	5305-01-529-8139	62534	RD-5-6250-0-50
8	56	3020-01-524-2457	62534	RD-5-11409-0P
8	57	3030-01-524-2455	62534	RD-5-11406-0P
8	58	4130-01-521-7816	62534	RD-5-11393-0P

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8	59	4730-01-523-6296	62534	RD-5-10525-0P
8	60	4730-01-529-9380	62534	RD-5-4400-0
8	61	5310-01-525-8013	62534	RD-5-6872-0M
8	62	5305-01-517-9281	62534	RD-5-4556-1
8	63	5305-01-525-8598	62534	RD-5-11433-1-20
8	64	4730-01-523-4097	62534	RD-5-5901-0P
8	65	6150-01-521-7661	62534	RD-2-4156-0P
8	66	5975-01-524-9811	62534	RD-5-4137-0M
8	67	6150-01-525-3955	62534	RD-2-4163-0P
8	68	6150-01-525-1625	62534	RD-2-4160-0P
8	69	6150-01-525-1122	62534	RD-2-4244-0P
8	70	4120-01-530-6339	62534	RD-2-4243-0
8	71	5340-01-523-8425	62534	RD-2-4116-0
8	72	5325-01-524-8831	62534	RD-5-4053-0P
8	73	5925-01-521-7620	62534	RD-5-11437-0P
8	74	5310-01-525-2737	62534	RD-5-4133-0M
8	75	5340-01-523-2793	62534	RD-2-4122-0P
8	76	5330-01-523-3722	62534	RD-2-4136-0P
8	77	5340-01-523-3992	62534	RD-2-4128-0P
8	78	5305-01-524-2260	62534	RD-5-7213-1- .375
8	79	5305-01-523-2459	62534	RD-5-5351-1-25
8	80	5340-01-524-1893	62534	RD-2-4142-0
8	81	4820-01-517-7304	62534	RD-5-11438-0P
8	82	TBD	62534	RD-5-5679-0P
8	83	5305-01-517-9757	62534	RD-5-5743-0-40
8	84	5331-01-524-9812	62534	RD-5-11016-0P
8	85	5340-01-524-2263	62534	RD-5-8410-0
8	86	5331-01-524-7872	62534	RD-5-11017-0P
8	87	5340-01-517-8600	62534	RD-5-6239-0
8	88	5320-01-520-5086	62534	RD-5-5345-0
8	89	5330-01-523-3964	62534	RD-2-4149-0P
8	90	4130-01-521-7486	62534	RD-2-4132-0P
8	91	4130-01-521-6442	62534	RD-2-4129-0P
8	92	2540-01-521-7709	62534	RD-2-4169-0P
8	93	2540-01-536-0012	62534	RD-5-5223-2
8	94	4520-01-532-4463	62534	RD-2-4131-0P
8	95	5305-01-525-2716	62534	RD-5-5260-0- .750M
8	96	2540-01-536-0113	62534	RD-2-4152-0P
8	97	5310-01-517-9281	62534	RD-5-4556-1
8	98	5305-01-523-1947	62534	RD-5-10825-1-16
8	99	5310-01-523-1558	62534	RD-5-4544-0
8	100	5340-01-523-1985	62534	RD-2-4126-0P
8	101	4140-01-521-8532	62534	RD-5-11436-0P
8	102	5945-01-522-9738	62534	RD-5-4417-0P
8	103	5915-01-521-6706	62534	RD-5-11445-0P



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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
8	104	6685-01-517-4892	62534	RD-5-11440-0P
8	105	4710-01-523-0548	62534	RD-5-3816-16P
8	106	5340-01-523-3993	62534	RD-2-4150-0P
8	107	5305-01-523-1009	62534	RD-5-5630-1-20M
8	108	6150-01-521-4634	62534	RD-2-4153-0P
8	109	4130-01-530-6336	62534	RD-4-5970-0
8	110	5970-01-523-3109	62534	RD-5-7357-8.5P
8	111	4140-01-521-6422	62534	RD-5-8785-3P
8	112	5305-01-523-1683	62534	RD-5-8980-1-20
8	113	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
8	114	5310-01-523-3710	62534	RD-5-11388-0
8	115	5340-01-524-4491	62534	RD-4-59140P
8	116	5340-01-525-1253	62534	RD-4-5972-1P
8	117	5305-01-523-2459	62534	RD-5-5351-1-25
8	118	5340-01-529-7347	62534	RD-4-5948-0
8	119	TBD	62534	RD-5-7212-1- .375
8	120	5340-01-525-9799	62534	RD-4-5952-1P
8	121	5310-01-523-2651	62534	RD-5-11392-0
8	122	5310-01-533-4006	62534	RD-5-4043
8	123	5310-01-525-8946	62534	RD-5-10818-0
8	124	4720-01-529-7878	62534	RD-4-5983-1
8	125	4130-01-521-5757	62534	RD-4-5857-0P
8	126	2510-01-523-3685	62534	RD-4-5921-0P
8	127	5305-01-517-9283	62534	RD-5-8222-1-16
8	128	2510-01-523-3670	62534	RD-4-59220P
8	129	4130-01-521-5745	62534	RD-5-11435-0P
8	130	5930-01-527-2166	62534	RD-5-8218-0
8	131	5930-01-524-7887	62534	RD-5-11064-0P
8	132	4730-01-526-5020	62534	RD-5-4035-52
8	133	5340-01-524-8858	62534	RD-4-5961-1P
8	134	5340-01-523-2408	62534	RD-4-5886-0P
8	135	5915-01-521-6706	62534	RD-5-11445-0P
8	136	5330-01-523-3709	62534	RD-4-5947-0P
8	137	6150-01-521-5712	62534	RD-4-5913-0P
9	1	4130-01-531-1190	62534	RD-2-4448-0P
9	2	5340-01-529-8292	62534	RD-2-4427-0
9	3	5340-01-529-7702	62534	RD-4-6065-0
9	4	TBD	62534	RD-5-11682-0
9	5	TBD	62534	RD-5-11676-0- 1.500
9	6	5930-01-523-8574	62534	RD-5-11446-0P
9	7	5305-01-523-2459	62534	RD-5-5351-1-25
9	8	TBD	62534	RD-5-11678-0
9	9	TBD	62534	RD-5-11676-0- 1.250

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FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
9	10	5340-01-529-9064	62534	RD-4-6075-0
9	11	TBD	62534	RD-4-6073-0
9	12	TBD	62534	RD-5-11676-0- 1.750
9	13	5340-01-529-5529	62534	RD-4-6081-0
9	14	5331-01-524-9812	62534	RD-5-11016-0P
9	15	4730-01-525-4521	62534	RD-5-10522-0P
9	16	4720-01-525-4326	62534	RD-5-10710-0P
9	17	4720-01-525-0347	62534	RD-5-10714-0P
9	18	4720-01-523-9231	62534	RD-5-10504-600P
9	19	5331-01-525-1903	62534	RD-5-11015-0P
9	20	4730-01-529-8151	62534	RD-5-11672-0
9	21	4720-01-525-1960	62534	RD-5-10709-0P
9	22	4720-01-524-9153	62534	RD-5-10713-0P
9	23	4730-01-523-3729	62534	RD-5-6600-0P
9	24	4720-01-523-5941	62534	RD-5-10505-600P
9	25	4720-01-523-3955	62534	RD-5-10507-600P
9	26	3990-01-523-4851	62534	RD-5-6326-0P
9	27	5331-01-524-7872	62534	RD-5-11017-0P
9	28	4730-01-523-9527	62534	RD-5-10574-0P
9	29	4720-01-524-8886	62534	RD-5-10712-0P
9	30	4730-01-524-9089	62534	RD-5-10716-0P
9	31	TBD	62534	RD-2-4429-0
9	32	5340-01-529-8143	62534	RD-2-4428-0
9	33	4730-01-523-4097	62534	RD-5-5901-0P
9	34	TBD	62534	RD-5-6532-13
9	35	5325-01-529-9543	62534	RD-5-3861-0
9	36	TBD	62534	RD-5-6666-0
9	37	4730-01-520-5375	62534	RD-5-7196-0
9	38	2540-01-526-8372	62534	RD-2-4162-0
9	39	4730-01-525-1956	62534	RD-5-10537-0P
9	40	4730-01-523-6296	62534	RD-5-10525-0P
9	41	5340-01-529-9047	62534	RD-3-11866-1
9	42	4730-01-529-9380	62534	RD-5-4400-0
9	43	5305-01-529-8296	62534	RD-5-8222-1-22
9	44	2540-01-521-7737	62534	RD-2-4158-0P
9	45	5305-01-524-9553	62534	RD-5-6675-0- 1.000
9	46	5310-01-526-4993	62534	RD-5-6139-0
9	47	5305-01-525-8583	62534	RD-5-6250-0-55
9	48	5305-01-525-8603	62534	RD-5-6250-0-30
9	49	5340-01-526-3469	62534	RD-9-10027-0
9	50	5310-01-525-8620	62534	RD-5-9377-0
9	51	5310-01-525-9051	62534	RD-5-6260-0
9	52	5305-01-526-0983	62534	RD-5-6141-0-130
9	53	3020-01-524-2457	62534	RD-5-11409-0P
9	54	5305-01-529-8139	62534	RD-5-6250-0-50

**CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
9	55	5310-01-525-6841	62534	RD-5-6261-0
9	56	5365-01-525-8531	62534	RD-5-6296-.750
9	57	2920-01-256-5910	62534	RD-9-10032-0
9	58	3030-01-524-2455	62534	RD-5-11406-0P
9	59	4130-01-521-7816	62534	RD-5-11393-0P
9	60	6150-01-521-7661	62534	RD-2-4156-0P
9	61	5975-01-524-9811	62534	RD-5-4137-0M
9	62	6150-01-525-3955	62534	RD-2-4163-0P
9	63	6150-01-525-1625	62534	RD-2-4160-0P
9	64	6150-01-525-1122	62534	RD-2-4244-0P
9	65	4120-01-530-6339	62534	RD-2-4243-0
9	66	5340-01-523-8425	62534	RD-2-4116-0
9	67	5325-01-524-8831	62534	RD-5-4053-0P
9	68	5925-01-521-7620	62534	RD-5-11437-0P
9	69	5310-01-525-2737	62534	RD-5-4133-0M
9	70	5340-01-523-2793	62534	RD-2-4122-0P
9	71	5330-01-523-3722	62534	RD-2-4136-0P
9	72	5340-01-523-3992	62534	RD-2-4128-0P
9	73	5305-01-524-2260	62534	RD-5-7213-1- .375
9	74	5305-01-523-2459	62534	RD-5-5351-1-25
9	75	5340-01-524-1893	62534	RD-2-4142-0
9	76	4820-01-517-7304	62534	RD-5-11438-0P
9	77	TBD	62534	RD-5-5679-0P
9	78	5305-01-517-9757	62534	RD-5-5743-0-40
9	79	5331-01-524-9812	62534	RD-5-11016-0P
9	80	5340-01-524-2263	62534	RD-5-8410-0
9	81	5331-01-524-7872	62534	RD-5-11017-0P
9	82	5340-01-517-8600	62534	RD-5-6239-0
9	83	5320-01-520-5086	62534	RD-5-5345-0
9	84	5330-01-523-3964	62534	RD-2-4149-0P
9	85	4130-01-521-7486	62534	RD-2-4132-0P
9	86	4130-01-521-6442	62534	RD-2-4129-0P
9	87	2540-01-521-7709	62534	RD-2-4169-0P
9	88	2540-01-536-0012	62534	RD-5-5223-2
9	89	4520-01-532-4463	62534	RD-2-4131-0P
9	90	5305-01-525-2716	62534	RD-5-5260-0- .750M
9	91	2540-01-536-0113	62534	RD-2-4152-0P
9	92	5310-01-517-9281	62534	RD-5-4556-1
9	93	5305-01-523-1947	62534	RD-5-10825-1-16
9	94	5310-01-523-1558	62534	RD-5-4544-0
9	95	5340-01-523-1985	62534	RD-2-4126-0P
9	96	4140-01-521-8532	62534	RD-5-11436-0P
9	97	5945-01-522-9738	62534	RD-5-4417-0P
9	98	5915-01-521-6706	62534	RD-5-11445-0P
9	99	6685-01-517-4892	62534	RD-5-11440-0P

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CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
9	100	4710-01-523-0548	62534	RD-5-3816-16P
9	101	5340-01-523-3993	62534	RD-2-4150-0P
9	102	5305-01-523-1009	62534	RD-5-5630-1-20M
9	103	6150-01-521-4634	62534	RD-2-4153-0P
9	104	4130-01-530-6117	62534	RD-4-6082-0
9	105	5970-01-523-3109	62534	RD-5-7357-8.5P
9	106	4140-01-521-6422	62534	RD-5-8785-3P
9	107	5305-01-523-1683	62534	RD-5-8980-1-20
9	108	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
9	109	5310-01-523-3710	62534	RD-5-11388-0
9	110	5340-01-524-4491	62534	RD-4-59140P
9	111	2510-01-523-3670	62534	RD-4-59220P
9	112	5305-01-517-9283	62534	RD-5-8222-1-16
9	113	4130-01-521-5757	62534	RD-4-5857-0P
9	114	2510-01-529-9425	62534	RD-46068-0
9	115	5310-01-523-2651	62534	RD-5-11392-0
9	116	TBD	62534	RD-5-7212-1- .375
9	117	5340-01-523-2408	62534	RD-4-5886-0P
9	118	5915-01-521-6706	62534	RD-5-11445-0P
9	119	5330-01-523-3709	62534	RD-4-5947-0P
9	120	TBD	62534	RD-5-5679-0P
9	121	5340-01-525-1931	62534	RD-4-5968-0P
9	122	5305-01-529-8296	62534	RD-5-8222-1-22
9	123	4720-01-529-7878	62534	RD-4-5983-1
9	124	4730-01-529-9380	62534	RD-5-4400-0
9	125	2510-01-523-3685	62534	RD-4-5921-0P
9	126	4730-01-526-5020	62534	RD-5-4035-52
9	127	4130-01-521-5745	62534	RD-5-11435-0P
9	128	5930-01-524-7887	62534	RD-5-11064-0P
9	129	3040-01-529-8665	62534	RD-4-6076-0
9	130	6150-01-521-5712	62534	RD-4-5913-0P
10	1	4130-01-531-1190	62534	RD-2-4448-0P
10	2	5340-01-529-8292	62534	RD-2-4427-0
10	3	5340-01-529-7702	62534	RD-4-6065-0
10	4	TBD	62534	RD-5-11682-0
10	5	TBD	62534	RD-5-11676-0- 1.500
10	6	5930-01-523-8574	62534	RD-5-11446-0P
10	7	5305-01-523-2459	62534	RD-5-5351-1-25
10	8	TBD	62534	RD-5-11678-0
10	9	TBD	62534	RD-5-11676-0- 1.250
10	10	5340-01-529-9064	62534	RD-4-6075-0
10	11	TBD	62534	RD-4-6073-0
10	12	TBD	62534	RD-5-11676-0-

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FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
				1.750
10	13	5340-01-529-5529	62534	RD-4-6081-0
10	14	5331-01-524-9812	62534	RD-5-11016-0P
10	15	4730-01-525-4521	62534	RD-5-10522-0P
10	16	4720-01-525-4326	62534	RD-5-10710-0P
10	17	4720-01-525-0347	62534	RD-5-10714-0P
10	18	4720-01-523-9231	62534	RD-5-10504-600P
10	19	5331-01-525-1903	62534	RD-5-11015-0P
10	20	4730-01-529-8151	62534	RD-5-11672-0
10	21	4720-01-525-1960	62534	RD-5-10709-0P
10	22	4720-01-524-9153	62534	RD-5-10713-0P
10	23	4730-01-523-3729	62534	RD-5-6600-0P
10	24	4720-01-523-5941	62534	RD-5-10505-600P
10	25	4720-01-523-3955	62534	RD-5-10507-600P
10	26	5305-01-523-1683	62534	RD-5-6326-0P
10	27	5331-01-524-7872	62534	RD-5-11017-0P
10	28	4730-01-523-9527	62534	RD-5-10574-0P
10	29	4720-01-524-8886	62534	RD-5-10712-0P
10	30	4730-01-524-9089	62534	RD-5-10716-0P
10	31	TBD	62534	RD-2-4429-0
10	32	5340-01-529-8143	62534	RD-2-4428-0
10	33	4730-01-523-4097	62534	RD-5-5901-0P
10	34	TBD	62534	RD-5-6532-13
10	35	5325-01-529-9543	62534	RD-5-3861-0
10	36	TBD	62534	RD-5-6666-0
10	37	4730-01-520-5375	62534	RD-5-7196-0
10	38	2540-01-526-8372	62534	RD-2-4162-0
10	39	4730-01-525-1956	62534	RD-5-10537-0P
10	40	4730-01-523-6296	62534	RD-5-10525-0P
10	41	5340-01-529-9047	62534	RD-3-11866-1
10	42	4730-01-529-9380	62534	RD-5-4400-0
10	43	5305-01-529-8296	62534	RD-5-8222-1-22
10	44	2540-01-521-7737	62534	RD-2-4158-0P
10	45	5305-01-524-9553	62534	RD-5-6675-0- 1.000
10	46	5310-01-526-4993	62534	RD-5-6139-0
10	47	5305-01-525-8583	62534	RD-5-6250-0-55
10	48	5305-01-525-8603	62534	RD-5-6250-0-30
10	49	5340-01-526-3469	62534	RD-9-10027-0
10	50	5310-01-525-8620	62534	RD-5-9377-0
10	51	5310-01-525-9051	62534	RD-5-6260-0
10	52	5305-01-526-0983	62534	RD-5-6141-0-130
10	53	3020-01-524-2457	62534	RD-5-11409-0P
10	54	5305-01-529-8139	62534	RD-5-6250-0-50
10	55	5310-01-525-6841	62534	RD-5-6261-0
10	56	5365-01-525-8531	62534	RD-5-6296-.750
10	57	2920-01-256-5910	62534	RD-9-10032-0

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FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
10	58	3030-01-524-2455	62534	RD-5-11406-0P
10	59	4130-01-521-7816	62534	RD-5-11393-0P
10	60	6150-01-521-7661	62534	RD-2-4156-0P
10	61	5975-01-524-9811	62534	RD-5-4137-0M
10	62	6150-01-525-3955	62534	RD-2-4163-0P
10	63	6150-01-525-1625	62534	RD-2-4160-0P
10	64	6150-01-525-1122	62534	RD-2-4244-0P
10	65	4120-01-530-6339	62534	RD-2-4243-0
10	66	5340-01-523-8425	62534	RD-2-4116-0
10	67	5325-01-524-8831	62534	RD-5-4053-0P
10	68	5925-01-521-7620	62534	RD-5-11437-0P
10	69	5310-01-525-2737	62534	RD-5-4133-0M
10	70	5340-01-523-2793	62534	RD-2-4122-0P
10	71	5330-01-523-3722	62534	RD-2-4136-0P
10	72	5340-01-523-3992	62534	RD-2-4128-0P
10	73	5305-01-524-2260	62534	RD-5-7213-1- .375
10	74	5305-01-523-2459	62534	RD-5-5351-1-25
10	75	5340-01-524-1893	62534	RD-2-4142-0
10	76	4820-01-517-7304	62534	RD-5-11438-0P
10	77	TBD	62534	RD-5-5679-0P
10	78	5305-01-517-9757	62534	RD-5-5743-0-40
10	79	5331-01-524-9812	62534	RD-5-11016-0P
10	80	5340-01-524-2263	62534	RD-5-8410-0
10	81	5331-01-524-7872	62534	RD-5-11017-0P
10	82	5340-01-517-8600	62534	RD-5-6239-0
10	83	5320-01-520-5086	62534	RD-5-5345-0
10	84	5330-01-523-3964	62534	RD-2-4149-0P
10	85	4130-01-521-7486	62534	RD-2-4132-0P
10	86	4130-01-521-6442	62534	RD-2-4129-0P
10	87	2540-01-521-7709	62534	RD-2-4169-0P
10	88	2540-01-536-0012	62534	RD-5-5223-2
10	89	4520-01-532-4463	62534	RD-2-4131-0P
10	90	5305-01-525-2716	62534	RD-5-5260-0- .750M
10	91	2540-01-536-0113	62534	RD-2-4152-0P
10	92	5310-01-517-9281	62534	RD-5-4556-1
10	93	5305-01-523-1947	62534	RD-5-10825-1-16
10	94	5310-01-523-1558	62534	RD-5-4544-0
10	95	5340-01-523-1985	62534	RD-2-4126-0P
10	96	4140-01-521-8532	62534	RD-5-11436-0P
10	97	5945-01-522-9738	62534	RD-5-4417-0P
10	98	5915-01-521-6706	62534	RD-5-11445-0P
10	99	6685-01-517-4892	62534	RD-5-11440-0P
10	100	4710-01-523-0548	62534	RD-5-3816-16P
10	101	5340-01-523-3993	62534	RD-2-4150-0P
10	102	5305-01-523-1009	62534	RD-5-5630-1-20M

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FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
10	103	6150-01-521-4634	62534	RD-2-4153-0P
10	104	4130-01-530-6117	62534	RD-4-6082-0
10	105	5970-01-523-3109	62534	RD-5-7357-8.5P
10	106	4140-01-521-6422	62534	RD-5-8785-3P
10	107	5305-01-523-1683	62534	RD-5-8980-1-20
10	108	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
10	109	5310-01-523-3710	62534	RD-5-11388-0
10	110	5340-01-524-4491	62534	RD-4-59140P
10	111	2510-01-523-3670	62534	RD-4-59220P
10	112	5305-01-517-9283	62534	RD-5-8222-1-16
10	113	4130-01-521-5757	62534	RD-4-5857-0P
10	114	2510-01-529-9425	62534	RD-46068-0
10	115	5310-01-523-2651	62534	RD-5-11392-0
10	116	TBD	62534	RD-5-7212-1- .375
10	117	5340-01-523-2408	62534	RD-4-5886-0P
10	118	5915-01-521-6706	62534	RD-5-11445-0P
10	119	5330-01-523-3709	62534	RD-4-5947-0P
10	120	TBD	62534	RD-5-5679-0P
10	121	5340-01-525-1931	62534	RD-4-5968-0P
10	122	5305-01-529-8296	62534	RD-5-8222-1-22
10	123	4720-01-529-7878	62534	RD-4-5983-1
10	124	4730-01-529-9380	62534	RD-5-4400-0
10	125	2510-01-523-3685	62534	RD-4-5921-0P
10	126	4730-01-526-5020	62534	RD-5-4035-52
10	127	4130-01-521-5745	62534	RD-5-11435-0P
10	128	5930-01-524-7887	62534	RD-5-11064-0P
10	129	3040-01-529-8665	62534	RD-4-6076-0
10	130	6150-01-521-5712	62534	RD-4-5913-0P
11	1	4130-01-531-1190	62534	RD-2-4448-0P
11	2	5340-01-529-8292	62534	RD-2-4427-0
11	3	5340-01-529-7702	62534	RD-4-6065-0
11	4	TBD	62534	RD-5-11682-0
11	5	TBD	62534	RD-5-11676-0- 1.500
11	6	5930-01-523-8574	62534	RD-5-11446-0P
11	7	5305-01-523-2459	62534	RD-5-5351-1-25
11	8	TBD	62534	RD-5-11678-0
11	9	TBD	62534	RD-5-11676-0- 1.250
11	10	5340-01-529-9064	62534	RD-4-6075-0
11	11	TBD	62534	RD-4-6073-0
11	12	TBD	62534	RD-5-11676-0- 1.750
11	13	5340-01-529-5529	62534	RD-4-6081-0
11	14	5331-01-524-9812	62534	RD-5-11016-0P

## SECTION IV

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CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
11	15	4730-01-525-4521	62534	RD-5-10522-0P
11	16	4720-01-525-4326	62534	RD-5-10710-0P
11	17	4720-01-525-0347	62534	RD-5-10714-0P
11	18	4720-01-523-9231	62534	RD-5-10504-600P
11	19	5331-01-525-1903	62534	RD-5-11015-0P
11	20	4730-01-529-8151	62534	RD-5-11672-0
11	21	4720-01-525-1960	62534	RD-5-10709-0P
11	22	4720-01-524-9153	62534	RD-5-10713-0P
11	23	4730-01-523-3729	62534	RD-5-6600-0P
11	24	4720-01-523-5941	62534	RD-5-10505-600P
11	25	4720-01-523-3955	62534	RD-5-10507-600P
11	26	5305-01-523-1683	62534	RD-5-6326-0P
11	27	5331-01-524-7872	62534	RD-5-11017-0P
11	28	4730-01-523-9527	62534	RD-5-10574-0P
11	29	4720-01-524-8886	62534	RD-5-10712-0P
11	30	4730-01-524-9089	62534	RD-5-10716-0P
11	31	TBD	62534	RD-2-4429-0
11	32	5340-01-529-8143	62534	RD-2-4428-0
11	33	4730-01-523-4097	62534	RD-5-5901-0P
11	34	TBD	62534	RD-5-6532-13
11	35	5325-01-529-9543	62534	RD-5-3861-0
11	36	TBD	62534	RD-5-6666-0
11	37	4730-01-520-5375	62534	RD-5-7196-0
11	38	2540-01-526-8372	62534	RD-2-4162-0
11	39	4730-01-525-1956	62534	RD-5-10537-0P
11	40	4730-01-523-6296	62534	RD-5-10525-0P
11	41	5340-01-529-9047	62534	RD-3-11866-1
11	42	4730-01-529-9380	62534	RD-5-4400-0
11	43	5305-01-529-8296	62534	RD-5-8222-1-22
11	44	2540-01-521-7737	62534	RD-2-4158-0P
11	45	5305-01-524-9553	62534	RD-5-6675-0- 1.000
11	46	5310-01-526-4993	62534	RD-5-6139-0
11	47	5305-01-525-8583	62534	RD-5-6250-0-55
11	48	5305-01-525-8603	62534	RD-5-6250-0-30
11	49	5340-01-526-3469	62534	RD-9-10027-0
11	50	5310-01-525-8620	62534	RD-5-9377-0
11	51	5310-01-525-9051	62534	RD-5-6260-0
11	52	5305-01-526-0983	62534	RD-5-6141-0-130
11	53	3020-01-524-2457	62534	RD-5-11409-0P
11	54	5305-01-529-8139	62534	RD-5-6250-0-50
11	55	5310-01-525-6841	62534	RD-5-6261-0
11	56	5365-01-525-8531	62534	RD-5-6296-.750
11	57	2920-01-256-5910	62534	RD-9-10032-0
11	58	3030-01-524-2455	62534	RD-5-11406-0P
11	59	4130-01-521-7816	62534	RD-5-11393-0P
11	60	6150-01-521-7661	62534	RD-2-4156-0P



**CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
11	61	5975-01-524-9811	62534	RD-5-4137-0M
11	62	6150-01-525-3955	62534	RD-2-4163-0P
11	63	6150-01-525-1625	62534	RD-2-4160-0P
11	64	6150-01-525-1122	62534	RD-2-4244-0P
11	65	4120-01-530-6339	62534	RD-2-4243-0
11	66	5340-01-523-8425	62534	RD-2-4116-0
11	67	5325-01-524-8831	62534	RD-5-4053-0P
11	68	5925-01-521-7620	62534	RD-5-11437-0P
11	69	5310-01-525-2737	62534	RD-5-4133-0M
11	70	5340-01-523-2793	62534	RD-2-4122-0P
11	71	5330-01-523-3722	62534	RD-2-4136-0P
11	72	5340-01-523-3992	62534	RD-2-4128-0P
11	73	5305-01-524-2260	62534	RD-5-7213-1- .375
11	74	5305-01-523-2459	62534	RD-5-5351-1-25
11	75	5340-01-524-1893	62534	RD-2-4142-0
11	76	4820-01-517-7304	62534	RD-5-11438-0P
11	77	TBD	62534	RD-5-5679-0P
11	78	5305-01-517-9757	62534	RD-5-5743-0-40
11	79	5331-01-524-9812	62534	RD-5-11016-0P
11	80	5340-01-524-2263	62534	RD-5-8410-0
11	81	5331-01-524-7872	62534	RD-5-11017-0P
11	82	5340-01-517-8600	62534	RD-5-6239-0
11	83	5320-01-520-5086	62534	RD-5-5345-0
11	84	5330-01-523-3964	62534	RD-2-4149-0P
11	85	4130-01-521-7486	62534	RD-2-4132-0P
11	86	4130-01-521-6442	62534	RD-2-4129-0P
11	87	2540-01-521-7709	62534	RD-2-4169-0P
11	88	2540-01-536-0012	62534	RD-5-5223-2
11	89	4520-01-532-4463	62534	RD-2-4131-0P
11	90	5305-01-525-2716	62534	RD-5-5260-0- .750M
11	91	2540-01-536-0113	62534	RD-2-4152-0P
11	92	5310-01-517-9281	62534	RD-5-4556-1
11	93	5305-01-523-1947	62534	RD-5-10825-1-16
11	94	5310-01-523-1558	62534	RD-5-4544-0
11	95	5340-01-523-1985	62534	RD-2-4126-0P
11	96	4140-01-521-8532	62534	RD-5-11436-0P
11	97	5945-01-522-9738	62534	RD-5-4417-0P
11	98	5915-01-521-6706	62534	RD-5-11445-0P
11	99	6685-01-517-4892	62534	RD-5-11440-0P
11	100	4710-01-523-0548	62534	RD-5-3816-16P
11	101	5340-01-523-3993	62534	RD-2-4150-0P
11	102	5305-01-523-1009	62534	RD-5-5630-1-20M
11	103	6150-01-521-4634	62534	RD-2-4153-0P
11	104	4130-01-530-6117	62534	RD-4-6082-0
11	105	5970-01-523-3109	62534	RD-5-7357-8.5P

## SECTION IV

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CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
11	106	4140-01-521-6422	62534	RD-5-8785-3P
11	107	5305-01-523-1683	62534	RD-5-8980-1-20
11	108	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
11	109	5310-01-523-3710	62534	RD-5-11388-0
11	110	5340-01-524-4491	62534	RD-4-59140P
11	111	2510-01-523-3670	62534	RD-4-59220P
11	112	5305-01-517-9283	62534	RD-5-8222-1-16
11	113	4130-01-521-5757	62534	RD-4-5857-0P
11	114	2510-01-529-9425	62534	RD-46068-0
11	115	5310-01-523-2651	62534	RD-5-11392-0
11	116	TBD	62534	RD-5-7212-1- .375
11	117	5340-01-523-2408	62534	RD-4-5886-0P
11	118	5915-01-521-6706	62534	RD-5-11445-0P
11	119	5330-01-523-3709	62534	RD-4-5947-0P
11	120	TBD	62534	RD-5-5679-0P
11	121	5340-01-525-1931	62534	RD-4-5968-0P
11	122	5305-01-529-8296	62534	RD-5-8222-1-22
11	123	4720-01-529-7878	62534	RD-4-5983-1
11	124	4730-01-529-9380	62534	RD-5-4400-0
11	125	2510-01-523-3685	62534	RD-4-5921-0P
11	126	4730-01-526-5020	62534	RD-5-4035-52
11	127	4130-01-521-5745	62534	RD-5-11435-0P
11	128	5930-01-524-7887	62534	RD-5-11064-0P
11	129	3040-01-529-8665	62534	RD-4-6076-0
11	130	6150-01-521-5712	62534	RD-4-5913-0P
12	1	4130-01-530-6596	62534	RD-2-4441-0
12	2	5340-01-529-8292	62534	RD-2-4427-0
12	3	5340-01-529-7702	62534	RD-4-6065-0
12	4	TBD	62534	RD-5-11682-0
12	5	TBD	62534	RD-5-11676-0- 1.500
12	6	5930-01-523-8574	62534	RD-5-11446-0P
12	7	5305-01-523-2459	62534	RD-5-5351-1-25
12	8	TBD	62534	RD-5-11678-0
12	9	TBD	62534	RD-5-11676-0- 1.250
12	10	5340-01-529-9064	62534	RD-4-6075-0
12	11	TBD	62534	RD-4-6073-0
12	12	2540-01-521-7737	62534	RD-2-4158-0P
12	13	5305-01-524-9553	62534	RD-5-6675-0- 1.000
12	14	TBD	62534	RD-5-11676-0- 1.750
12	15	5340-01-529-5529	62534	RD-4-6081-0
12	16	5331-01-524-9812	62534	RD-5-11016-0P

**CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
12	17	4730-01-525-4521	62534	RD-5-10522-0P
12	18	4720-01-525-4326	62534	RD-5-10710-0P
12	19	4720-01-525-0347	62534	RD-5-10714-0P
12	20	4720-01-523-9231	62534	RD-5-10504-600P
12	21	5331-01-525-1903	62534	RD-5-11015-0P
12	22	4730-01-529-8151	62534	RD-5-11672-0
12	23	4720-01-525-1960	62534	RD-5-10709-0P
12	24	4720-01-524-9153	62534	RD-5-10713-0P
12	25	4730-01-523-3729	62534	RD-5-6600-0P
12	26	4720-01-523-5941	62534	RD-5-10505-600P
12	27	4720-01-523-3955	62534	RD-5-10507-600P
12	28	5305-01-523-1683	62534	RD-5-6326-0P
12	29	4730-01-524-9089	62534	RD-5-10716-0P
12	30	4720-01-524-8886	62534	RD-5-10712-0P
12	31	4730-01-523-9527	62534	RD-5-10574-0P
12	32	5331-01-524-7872	62534	RD-5-11017-0P
12	33	TBD	62534	RD-2-4429-0
12	34	5340-01-529-8143	62534	RD-2-4428-0
12	35	5305-01-529-8296	62534	RD-5-8222-1-22
12	36	4730-01-529-9380	62534	RD-5-4400-0
12	37	5340-01-529-9047	62534	RD-3-11866-1
12	38	4730-01-523-6296	62534	RD-5-10525-0P
12	39	4730-01-523-4097	62534	RD-5-5901-0P
12	40	TBD	62534	RD-5-6532-13
12	41	5325-01-529-9543	62534	RD-5-3861-0
12	42	TBD	62534	RD-5-6666-0
12	43	4730-01-520-5375	62534	RD-5-7196-0
12	44	2540-01-526-8372	62534	RD-2-4162-0
12	45	4730-01-525-1956	62534	RD-5-10537-0P
12	46	4130-01-521-7816	62534	RD-5-11393-0P
12	47	5340-01-529-7711	62534	RD-9-10008-0
12	48	5305-01-529-7949	62534	RD-5-6250-0-40
12	49	5310-01-523-2651	62534	RD-5-11392-0
12	50	5310-01-525-9051	62534	RD-5-6260-0
12	51	5305-01-526-0983	62534	RD-5-6141-0-130
12	52	5340-01-529-5527	62534	RD-9-10006-0
12	53	5310-01-526-4993	62534	RD-5-6139-0
12	54	5305-01-529-8457	62534	RD-5-6141-0-25
12	55	5307-01-529-5644	62534	RD-5-11397-0- 35-30
12	56	5307-01-529-7212	62534	RD-5-11397-0- 30-20
12	57	5305-01-529-7316	62534	RD-5-6250-0-35
12	58	3020-01-524-2457	62534	RD-5-11409-0P
12	59	5310-01-525-8620	62534	RD-5-9377-0
12	60	5306-01-529-7375	62534	RD-5-11390-0- 2.250

## SECTION IV

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CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
12	61	3030-01-524-2451	62534	RD-5-11396-0P
12	62	5305-01-529-5657	62534	RD-5-6250-0-60
12	63	TBD	62534	RD-9-10034-0
12	64	5340-01-529-7655	62534	RD-9-10036-0
12	65	5305-01-529-8139	62534	RD-5-6250-0-50
12	66	3030-01-524-2460	62534	RD-5-11792-0P
12	67	6150-01-521-7661	62534	RD-2-4156-0P
12	68	5975-01-524-9811	62534	RD-5-4137-0M
12	69	6150-01-525-3955	62534	RD-2-4163-0P
12	70	6150-01-525-1625	62534	RD-2-4160-0P
12	71	6150-01-525-1122	62534	RD-2-4244-0P
12	72	4120-01-530-6339	62534	RD-2-4243-0
12	73	5340-01-523-8425	62534	RD-2-4116-0
12	74	5325-01-524-8831	62534	RD-5-4053-0P
12	75	5925-01-521-7620	62534	RD-5-11437-0P
12	76	5310-01-525-2737	62534	RD-5-4133-0M
12	77	5340-01-523-2793	62534	RD-2-4122-0P
12	78	5330-01-523-3722	62534	RD-2-4136-0P
12	79	5340-01-523-3992	62534	RD-2-4128-0P
12	80	5305-01-524-2260	62534	RD-5-7213-1- .375
12	81	5305-01-523-2459	62534	RD-5-5351-1-25
12	82	5340-01-524-1893	62534	RD-2-4142-0
12	83	4820-01-517-7304	62534	RD-5-11438-0P
12	84	TBD	62534	RD-5-5679-0P
12	85	5305-01-517-9757	62534	RD-5-5743-0-40
12	86	5331-01-524-9812	62534	RD-5-11016-0P
12	87	5340-01-524-2263	62534	RD-5-8410-0
12	88	5331-01-524-7872	62534	RD-5-11017-0P
12	89	5340-01-517-8600	62534	RD-5-6239-0
12	90	5320-01-520-5086	62534	RD-5-5345-0
12	91	5330-01-523-3964	62534	RD-2-4149-0P
12	92	4130-01-521-7486	62534	RD-2-4132-0P
12	93	4130-01-521-6442	62534	RD-2-4129-0P
12	94	2540-01-521-7709	62534	RD-2-4169-0P
12	95	2540-01-536-0012	62534	RD-5-5223-2
12	96	4520-01-532-4463	62534	RD-2-4131-0P
12	97	5305-01-525-2716	62534	RD-5-5260-0- .750M
12	98	2540-01-536-0113	62534	RD-2-4152-0P
12	99	5310-01-517-9281	62534	RD-5-4556-1
12	100	5305-01-523-1947	62534	RD-5-10825-1-16
12	101	5310-01-523-1558	62534	RD-5-4544-0
12	102	5340-01-523-1985	62534	RD-2-4126-0P
12	103	4140-01-521-8532	62534	RD-5-11436-0P
12	104	5945-01-522-9738	62534	RD-5-4417-0P
12	105	5915-01-521-6706	62534	RD-5-11445-0P

**CROSS REFERENCE INDEXES  
FIGURE AND ITEM NUMBER INDEX**

FIGURE NO	ITEM NO	STOCK NUMBER	CAGEC	PART NO
12	106	6685-01-517-4892	62534	RD-5-11440-0P
12	107	4710-01-523-0548	62534	RD-5-3816-16P
12	108	5340-01-523-3993	62534	RD-2-4150-0P
12	109	5305-01-523-1009	62534	RD-5-5630-1-20M
12	110	6150-01-521-4634	62534	RD-2-4153-0P
12	111	4130-01-530-6117	62534	RD-4-6082-0
12	112	5970-01-523-3109	62534	RD-5-7357-8.5P
12	113	4140-01-521-6422	62534	RD-5-8785-3P
12	114	5305-01-523-1683	62534	RD-5-8980-1-20
12	115	5306-01-523-1006	62534	RD-5-11390-0- 1.500M
12	116	5310-01-523-3710	62534	RD-5-11388-0
12	117	5340-01-524-4491	62534	RD-4-59140P
12	118	2510-01-523-3670	62534	RD-4-59220P
12	119	5305-01-517-9283	62534	RD-5-8222-1-16
12	120	4130-01-521-5757	62534	RD-4-5857-0P
12	121	2510-01-529-9425	62534	RD-46068-0
12	122	5310-01-523-2651	62534	RD-5-11392-0
12	123	TBD	62534	RD-5-7212-1- .375
12	124	5340-01-523-2408	62534	RD-4-5886-0P
12	125	5915-01-521-6706	62534	RD-5-11445-0P
12	126	5330-01-523-3709	62534	RD-4-5947-0P
12	127	TBD	62534	RD-5-5679-0P
12	128	5340-01-525-1931	62534	RD-4-5968-0P
12	129	5305-01-529-8296	62534	RD-5-8222-1-22
12	130	4720-01-529-7878	62534	RD-4-5983-1
12	131	4730-01-529-9380	62534	RD-5-4400-0
12	132	2510-01-523-3685	62534	RD-4-5921-0P
12	133	4730-01-526-5020	62534	RD-5-4035-52
12	134	4130-01-521-5745	62534	RD-5-11435-0P
12	135	5930-01-524-7887	62534	RD-5-11064-0P
12	136	3040-01-529-8665	62534	RD-4-6076-0
12	137	6150-01-521-5712	62534	RD-4-5913-0P



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## APPENDIX D EXPENDABLE AND DURABLE SUPPLIES AND MATERIALS LIST

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### Section I. INTRODUCTION

#### D-1 Scope.

This appendix lists expendable and durable items that are needed to operate and maintain the Air Conditioner Kit. This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized by CTA 50-790, Expendable/Durable Items (except medical, Class V, repair parts, and heraldic items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

#### D-2 Explanation of Columns.

- a. **Item Number (Column (1)).** This number is assigned to the entry in the listing and may be referenced in the narrative instructions to identify the item (e.g., "Use detergent, general purpose, Item 4, Appendix D").
- b. **Level (Column (2)).** This column identifies the lowest level of maintenance that requires the item. One of the following codes appears in Column 2:
  - C - Operator/Crew Maintenance
  - O - Unit Maintenance
  - F - Direct Support Maintenance
- c. **National Stock Number (Column (3)).** This is the national stock number assigned to the item. Use it to requisition the item.
- d. **Item Name, Description, Commercial and Government Entity (CAGE) code, and Part Number (Column (4)).** This provides the other information needed to identify the item.
- e. **Unit of Measure (U/M) (Column (5)).** This code shows the physical measurement or count of an item, such as gallon, gross, etc.





## Section II. EXPENDABLE AND DURABLE SUPPLIES

(1) Item No	(2) Level	(3) National Stock Number	(4) Item Name Description, CAGE, and Part Number	(5) U/M
1	O	7920-00-061-0038	BRUSH: Scrub (81348) H-B-1490-7-P1	ea
2	O	7920-00-900-3577	BRUSH: Wire (17987) 3577	ea
3	O		CEMENT: For ABS Plastic RD-5-5246-0 (62534)	
4	O	7930-00-282-9699	DETERGENT: General Purpose, Liquid (83421) 7930-00-282-9699 1 gallon can	gl
5	O	8415-00-268-7859	GLOVES: Protective (58536) A-A-50022	pr
6	O		OIL: Refrigerant PAG Oil RD-5-7166-0P (62534)	
7	O	7920-00-205-1711	RAG: Wiping (64067) 7920-00-205-1711 50 pound bale	lb
8	O	6830-01-370-6207	R134A: Tetrafluorethane, Technical (2S827) HFC-134A 43 lb cylinder	lb
9	O	8040-00-833-9563	SEALANT: Adhesive, Silicone Rubber (94833) 52498 5 oz tube	kt
10	O	6850-01-378-0679	SOLVENT, Drycleaning (Environmentally Compliant Solvent) (0K209) Breakthrough 5 gallon can	gl
11	O	9905-00-537-8954	TAG: Marker (64067) 9905-00-537-8954 50 each	ea
12	O	5640-00-103-2254	TAPE: Duct (39428) 1791K70	ro
13	O	5340-01-523-2393	TIE, WIRE: Strap, Tiedown, Electrical Components, Nylon (62534) RD-5-4021-0	ea



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## APPENDIX E GLOSSARY ABBREVIATIONS/ACRONYMS

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### E-1 Scope.

The following is a list of abbreviations/acronyms and their definitions appearing in this manual. Other terms found in this manual are defined in the paragraph in which they first appear. Refer to MIL-STD-12 for a complete list of standard military abbreviations.

<b>A</b>	Annually
<b>AAL</b>	Additional Authorization List
<b>A/C</b>	Air Conditioning
<b>amps</b>	Ampers
<b>AoA</b>	Add-on-Armor
<b>BII</b>	Basic Issue Items
<b>CAGEC</b>	Commercial and Government Entity Code
<b>CARC</b>	Chemical Agent Resistant Coating
<b>Class</b>	Classification
<b>cm</b>	Centimeter
<b>COEI</b>	Components of End Item
<b>DA</b>	Department of the Army
<b>DOD</b>	Department of Defense
<b>DS</b>	Direct Support
<b>EIR</b>	Equipment Improvement Recommendation
<b>FCG</b>	Functional Group Code
<b>ft</b>	Foot
<b>ft/lb</b>	Foot/Pound
<b>GS</b>	General Support
<b>GSIE</b>	Ground Systems Industrial Enterprise
<b>H</b>	Hour
<b>HMMWV</b>	High Mobility Multipurpose Wheeled Vehicle
<b>IAW</b>	In Accordance With
<b>in</b>	Inch
<b>kg</b>	Kilogram
<b>lb</b>	Pound
<b>M</b>	Monthly
<b>MAC</b>	Maintenance Allocation Chart

**ABBREVIATION/ACRONYMS (Cont'd)**

<b>MLC</b>	Military Load Class
<b>MOS</b>	Military Occupational Specialty
<b>MTOE</b>	Modification Table of Organization and Equipment
<b>NBC</b>	Nuclear, Biological, Chemical
<b>N•m</b>	Newton Meters
<b>NSN</b>	National Stock Number
<b>OHE</b>	O’Gara Hess
<b>PDP</b>	Power Distribution Panel
<b>PMCS</b>	Preventive Maintenance Checks and Services
<b>POC</b>	Point of Contact
<b>Qty. Recm</b>	Quantity Recommended
<b>Qty. Rqr</b>	Quantity Required
<b>RPL</b>	Repair Parts List
<b>S</b>	Semiannually
<b>S/N</b>	Serial Number
<b>SMR</b>	Sources, Maintenance, and Recoverability
<b>TAMMS</b>	The Army Maintenance Management System
<b>TB</b>	Technical Bulletin
<b>TDA</b>	Table of Distribution and Allowances
<b>TM</b>	Technical Manual
<b>TMDE</b>	Test, Measuring, and Diagnostic Equipment
<b>TOE</b>	Table of Organization and Equipment
<b>U/M</b>	Unit of Measure
<b>V dc</b>	Volts, Direct Current
<b>w/</b>	With
<b>w/o</b>	Without
<b>WARCO</b>	Warranty Coordinator

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## APPENDIX F MANDATORY REPLACEMENT PARTS LIST

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This section includes a list of all mandatory replacement parts referenced in the task initial setups and procedures. These are items that must be replaced during maintenance whether they have failed or not.

**Mandatory Replacement Parts List**

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
1	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
2	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
3	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
4	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
5	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
6	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
7	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
8	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
9	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
10	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
11	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
12	RD-2-4132-0P	4130-01-521-7486	FILTER ELEMENT, AIR CONDITIONING	1
13	RD-2-4136-0P	5330-01-523-3722	GASKET	1
14	RD-2-4136-0P	5330-01-523-3722	GASKET	1
15	RD-2-4136-0P	5330-01-523-3722	GASKET	1
16	RD-2-4136-0P	5330-01-523-3722	GASKET	1
17	RD-2-4136-0P	5330-01-523-3722	GASKET	1
18	RD-2-4136-0P	5330-01-523-3722	GASKET	1
19	RD-2-4136-0P	5330-01-523-3722	GASKET	1
20	RD-2-4136-0P	5330-01-523-3722	GASKET	1
21	RD-2-4136-0P	5330-01-523-3722	GASKET	1
22	RD-2-4136-0P	5330-01-523-3722	GASKET	1
23	RD-2-4136-0P	5330-01-523-3722	GASKET	1
24	RD-2-4136-0P	5330-01-523-3722	GASKET	1
25	RD-2-4149-0P	5330-01-523-3964	GASKET	2
26	RD-2-4149-0P	5330-01-523-3964	GASKET	2
27	RD-2-4149-0P	5330-01-523-3964	GASKET	2
28	RD-2-4149-0P	5330-01-523-3964	GASKET	2
29	RD-2-4149-0P	5330-01-523-3964	GASKET	2
30	RD-2-4149-0P	5330-01-523-3964	GASKET	2
31	RD-2-4149-0P	5330-01-523-3964	GASKET	2
32	RD-2-4149-0P	5330-01-523-3964	GASKET	2
33	RD-2-4149-0P	5330-01-523-3964	GASKET	2
34	RD-2-4149-0P	5330-01-523-3964	GASKET	2
35	RD-2-4149-0P	5330-01-523-3964	GASKET	2
36	RD-2-4149-0P	5330-01-523-3964	GASKET	2
37	RD-4-5947-0P	5330-01-523-3709	GASKET	1
38	RD-4-5947-0P	5330-01-523-3709	GASKET	1
39	RD-4-5947-0P	5330-01-523-3709	GASKET	1
40	RD-4-5947-0P	5330-01-523-3709	GASKET	1
41	RD-4-5947-0P	5330-01-523-3709	GASKET	1
42	RD-4-5947-0P	5330-01-523-3709	GASKET	1
43	RD-4-5947-0P	5330-01-523-3709	GASKET	1
44	RD-4-5947-0P	5330-01-523-3709	GASKET	1
45	RD-4-5947-0P	5330-01-523-3709	GASKET	1
46	RD-4-5947-0P	5330-01-523-3709	GASKET	1
47	RD-4-5947-0P	5330-01-523-3709	GASKET	1

## Mandatory Replacement Parts List

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
48	RD-4-5947-0P	5330-01-523-3709	GASKET	1
49	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
50	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
51	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
52	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
53	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
54	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
55	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
56	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	4
57	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	2
58	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	2
59	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	2
60	RD-5-10709-0P	4720-01-525-1960	HOSE, NONMETALLIC #6 CAGE	2
61	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
62	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
63	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
64	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
65	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
66	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
67	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
68	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
69	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
70	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
71	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
72	RD-5-10710-0P	4720-01-525-4326	HOSE, NONMETALLIC #8 CAGE	2
73	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
74	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
75	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
76	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
77	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
78	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
79	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
80	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	4
81	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
82	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
83	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
84	RD-5-10712-0P	4720-01-524-8886	HOSE, NONMETALLIC #12 CAGE	2
85	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
86	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
87	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
88	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
89	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
90	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
91	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
92	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	8
93	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	4
94	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	4
95	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	4
96	RD-5-10713-0P	4720-01-524-9153	HOSE, NONMETALLIC #6 CLIP	4

## Mandatory Replacement Parts List

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
97	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
98	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
99	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
100	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
101	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
102	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
103	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
104	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
105	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
106	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
107	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
108	RD-5-10714-0P	4720-01-525-0347	HOSE, NONMETALLIC #8 CLIP	4
109	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
110	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
111	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
112	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
113	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
114	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
115	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
116	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	8
117	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
118	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
119	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
120	RD-5-10716-0P	4730-01-524-9089	CLAMP, HOSE #12 CLIP	4
121	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
122	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
123	RD-5-11015-0P	5331-01-525-1903	O-RING #6	1
124	RD-5-11015-0P	5331-01-525-1903	O-RING #6	1
125	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
126	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
127	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
128	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
129	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
130	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
131	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
132	RD-5-11015-0P	5331-01-525-1903	O-RING #6	2
133	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
134	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
135	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
136	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
137	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
138	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
139	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
140	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
141	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
142	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
143	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
144	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
145	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1



## Mandatory Replacement Parts List

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
146	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
147	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
148	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
149	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
150	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
151	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
152	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
153	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
154	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
155	RD-5-11016-0P	5331-01-524-9812	O-RING #8	2
156	RD-5-11016-0P	5331-01-524-9812	O-RING #8	1
157	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
158	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
159	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
160	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
161	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
162	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
163	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
164	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
165	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
166	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
167	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
168	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
169	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
170	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
171	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
172	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
173	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
174	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
175	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
176	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
177	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
178	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
179	RD-5-11017-0P	5331-01-524-7872	O-RING #10	2
180	RD-5-11017-0P	5331-01-524-7872	O-RING #10	1
181	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
182	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
183	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
184	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
185	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
186	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
187	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
188	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
189	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
190	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
191	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
192	RD-5-11440-0P	6685-01-517-4892	THERMOSTAT, FLOW CONTROL	1
193	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
194	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2

**Mandatory Replacement Parts List**

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
195	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
196	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
197	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
198	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
199	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
200	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
201	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
202	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
203	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
204	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
205	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
206	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
207	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
208	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
209	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
210	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
211	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
212	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
213	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
214	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
215	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	1
216	RD-5-11445-0P	5915-01-521-6706	FILTER ASSEMBLY, ELECTRICAL	2
217	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
218	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
219	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
220	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
221	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
222	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
223	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
224	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
225	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
226	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
227	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
228	RD-5-4417-0P	5945-01-522-9738	RELAY, ELECTROMAGNETIC	2
229	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
230	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
231	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
232	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
233	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
234	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
235	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
236	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING, HEXAGON	2
237	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING	2
238	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING	2
239	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING	2
240	RD-5-4544-0	5310-01-523-1558	NUT, SELF-LOCKING	2
241	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
242	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2

## Mandatory Replacement Parts List

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
243	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
244	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
245	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
246	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
247	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
248	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
249	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
250	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
251	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
252	RD-5-5345-0	5320-01-520-5086	RIVET, BLIND	2
253	RD-5-5679-0P	TBD	NUT, CLIP M6	1
254	RD-5-5679-0P	TBD	NUT, CLIP M6	4
255	RD-5-5679-0P	TBD	NUT, CLIP M6	1
256	RD-5-5679-0P	TBD	NUT, CLIP M6	4
257	RD-5-5679-0P	TBD	NUT, CLIP M6	1
258	RD-5-5679-0P	TBD	NUT, CLIP M6	4
259	RD-5-5679-0P	TBD	NUT, CLIP M6	1
260	RD-5-5679-0P	TBD	NUT, CLIP M6	4
261	RD-5-5679-0P	TBD	NUT, CLIP M6	1
262	RD-5-5679-0P	TBD	NUT, CLIP M6	4
263	RD-5-5679-0P	TBD	NUT, CLIP M6	1
264	RD-5-5679-0P	TBD	NUT, CLIP M6	4
265	RD-5-5679-0P	TBD	NUT, CLIP M6	1
266	RD-5-5679-0P	TBD	NUT, CLIP M6	4
267	RD-5-5679-0P	TBD	NUT, CLIP M6	1
268	RD-5-5679-0P	TBD	NUT, CLIP M6	1
269	RD-5-5679-0P	TBD	NUT, CLIP M6	4
270	RD-5-5679-0P	TBD	NUT, CLIP M6	1
271	RD-5-5679-0P	TBD	NUT, CLIP M6	4
272	RD-5-5679-0P	TBD	NUT, CLIP M6	1
273	RD-5-5679-0P	TBD	NUT, CLIP M6	4
274	RD-5-5679-0P	TBD	NUT, CLIP M6	1
275	RD-5-5679-0P	TBD	NUT, CLIP M6	4
276	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	2
277	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	2
278	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	5
279	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	5
280	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	2
281	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	2
282	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	2
283	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	4
284	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	4
285	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	4
286	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	4
287	RD-5-6600-0P	4730-01-523-3729	GROMMET, NONMETALLIC	4
288	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
289	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
290	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2

**Mandatory Replacement Parts List**

ITEM NO.	PART NUMBER	NSN	NOMENCLATURE	QTY
291	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
292	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
293	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
294	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
295	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
296	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
297	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
298	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2
299	RD-5-7357-8.5P	5970-01-523-3109	INSULATION SLEEVING, ELECTRICAL	2

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## APPENDIX G SCHEMATIC

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This section contains an electrical schematic RD-406076-0 Harness Extension used on the GSIE Add-on-Armor two-door and four-door variants and the O'Gara Hess Add-on-Armor two-door and four-door variants. Refer to this schematic when performing electrical troubleshooting for these variants. Foldout schematic is located at the end of the technical bulletin.

GSIE Add-on Armor two-door variants: M998 and M998A1; M1037; M1097, M1097A1, and M1097A2.

GSIE Add-on-Armor four-door variants: M998 and M998A1; M1025, M1025A1, and M1025A2.

O'Gara Hess Add-on-Armor two-door variants: M998 and M998A1; M1037; M1097, M1097A1, and M1097A2.

O'Gara Hess Add-on-Armor four-door variants: M998 and M998A1.



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By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large initial "J" and "M".

JOYCE E. MORROW  
*Administrative Assistant to the  
Secretary of the Army*

0719403


GEORGE W. CASEY, JR.  
*General, United States Army  
Chief of Staff*

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ITEM	PAGE	PARA	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
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<b>PUBLICATION NUMBER</b> TB 9-2510-251-13	<b>DATE</b> 31 August 2007	<b>TITLE</b> INSTALLATION, REMOVAL, AND REPAIR PARTS LIST FOR ADD-ON ARMOR (AOA) AIR CONDITIONING FOR HMMWV FAMILY OF VEHICLES (FOV)
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<b>TYPED, GRADE OR TITLE</b>	<b>TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION</b>	<b>SIGNATURE</b>
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<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b>						Use Part II ( <i>reverse</i> ) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA							
TO: ( <i>Forward to proponent of publication or form</i> ) ( <i>Include ZIP Code</i> ) TACOM Life Cycle Management Command ATTN: AMSTA-LC-LPIT/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630				FROM: ( <i>Activity and location</i> ) ( <i>Include ZIP Code</i> )			
<b>PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
PUBLICATION/FORM NUMBER TB 9-2510-251-13				DATE 31 August 2007		TITLE Add-on-Armor (AoA) Air Conditioning	
ITEM	PAGE	PARA-	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

<b>TO:</b> <i>(Forward direct to addressee listed in publication)</i> TACOM Life Cycle Management ATTN: AMSTA-LC-LPIT TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630	<b>FROM:</b> <i>(Activity and location) (Include ZIP Code)</i>	<b>DATE</b>
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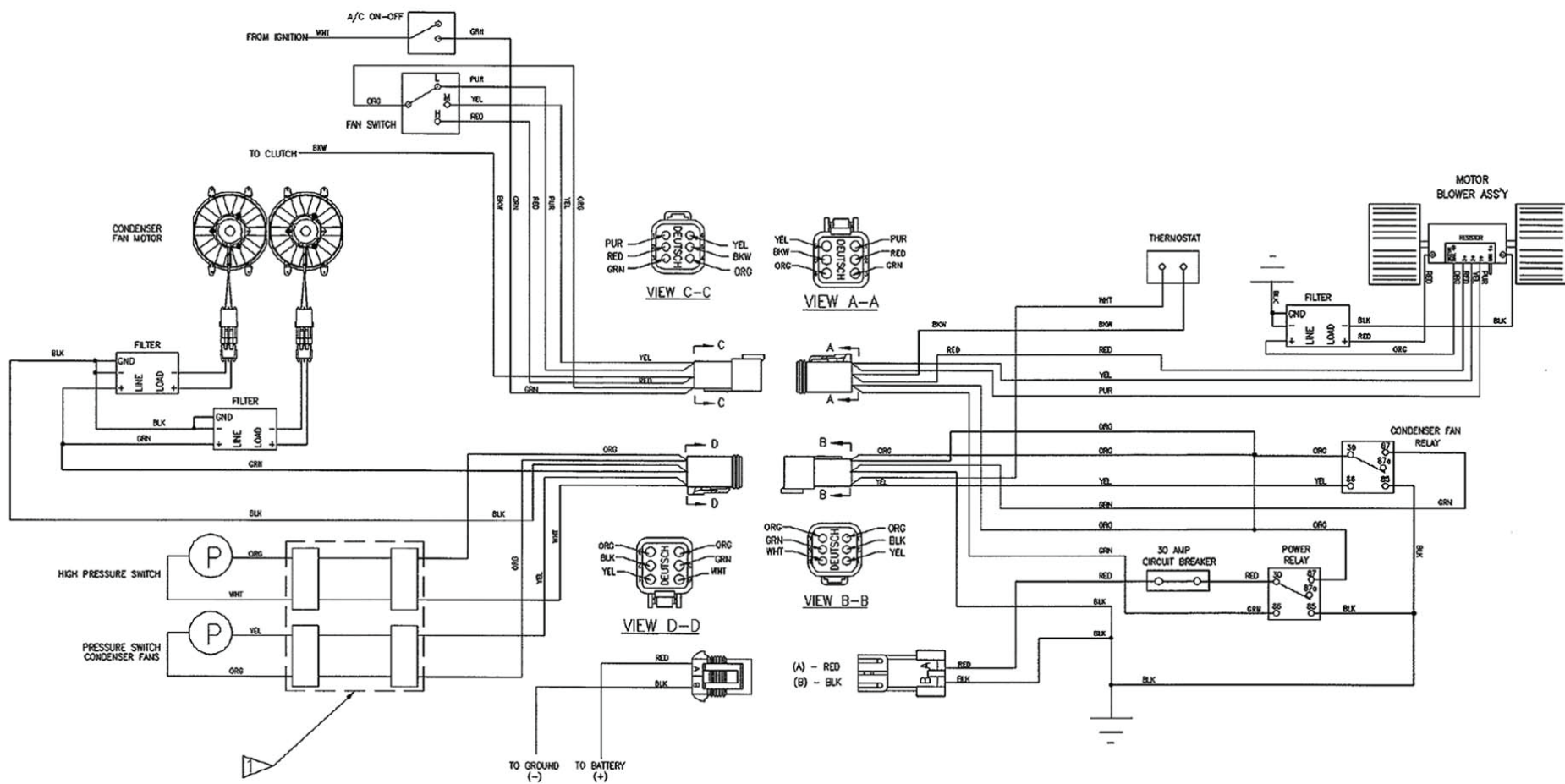
**PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

<b>PUBLICATION NUMBER</b> TB 9-2510-251-13	<b>DATE</b> 31 August 2007	<b>TITLE</b> Add-on-Armor (AoA) Air Conditioning
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

**PART III - REMARKS** *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

<b>TYPED NAME, GRADE OR TITLE</b>	<b>TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION</b>	<b>SIGNATURE</b>
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FO-1. Electrical System Wiring Diagram  
FP-1/(FP-2 blank)



## THE METRIC SYSTEM AND EQUIVALENTS

### LINEAR MEASURE

- 1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
- 1 Meter = 100 Centimeters = 1,000 Millimeters = 39.37 Inches
- 1 Kilometer = 1,000 Meters = 0.621 Miles

### SQUARE MEASURE

- 1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
- 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
- 1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

### CUBIC MEASURE

- 1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches
- 1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

### LIQUID MEASURE

- 1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
- 1 Liter = 1,000 Milliliters = 33.82 Fluid Ounces

### TEMPERATURE

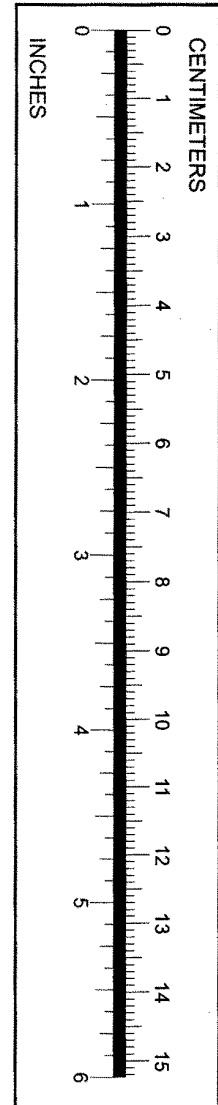
- Degrees Fahrenheit (F) = °C • 9 ÷ 5 + 32
- Degrees Celsius (C) = F° - 32 • 5 ÷ 9
- 212° Fahrenheit is equivalent to 100° Celsius
- 90° Fahrenheit is equivalent to 32.2° Celsius
- 32° Fahrenheit is equivalent to 0° Celsius

### WEIGHTS

- 1 Gram = 0.001 Kilograms = 1,000 Milligrams = 0.035 Ounces
- 1 Kilogram = 1,000 Grams = 2.2 Lb
- 1 Metric Ton = 1,000 Kilograms = 1 Megagram = 1.1 Short Tons

### APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Millimeters	25.4
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.4536
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds Per Square Inch	Kilopascals	6.895
Miles Per Gallon	Kilometers Per Liter	0.425
Miles Per Hour	Kilometers Per Hour	1.609
<b>TO CHANGE</b>		
Millimeters	Inches	0.03937
Centimeters	Inches	0.3937
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.2046
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds Per Square Inch	0.145
Kilometers Per Liter	Miles Per Gallon	2.354
Kilometers Per Hour	Miles Per Hour	0.621



**PIN: 084141-000**