TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

GENERATOR SET, ENGINE DRIVEN MODEL C-26C

NSN 6615-00-127-8544

This copy is a reprint which includes current pages from Changes 1 through 4.

HEADQUARTERS, DEPARTMENT OF THE ARMY

27 APRIL 1971

WARNING

PRECAUTIONARY DATA

Personnel performing operations, procedures, and practices which are included or implied in this technical manual shall observe the following warnings. Disregard of these warnings and precautionary information can cause serious injury, death, or destruction of material.

OPERATION. When positioning generator set for aircraft engine starting, ensure generator is parked as far away from aircraft as length of power cables will permit. Take generator engine exhaust, wind direction, and aircraft engine exhaust into consideration. Also, position generator so tow bar is facing away from aircraft for easy removal in case of fire.

Before connecting external power cable to aircraft ensure no part of the generator set touches the aircraft. Due to the voltage drop in the cables the two ground systems (generator and aircraft) are at different potentials. If they should come in contact while the generator set is operating, the resulting short circuit could cause serious damage.

Do not operate engine, with appreciable load, unless hood is in place to prevent exhaust fumes from entering carburetor air intake.

After engine shut-down, return throttle to full open position and lock.

Do not use the front drive as a means of towing other equipment. Do not tow the generator set with front drive engaged. Do not tow faster than 20 mph.

USING TOXIC/FLAMMABLE MATERIALS. Due to the toxicity and flammability of the solvents and solutions used in the cleaning procedures, adequate ventilation must be provided. Avoid prolonged contact with solutions and chemicals. Do not use drycleaning solvent or flammable cleaners near an open flame or in areas where very high temperatures prevail.

VOLTAGES AND PRESSURES. The 115/200-volt, ac system can cause severe shock or serious injury to operating personnel. Do not make electrical adjustments except to the voltage regulator while the ac system is in operation.

If engine oil pressure does not come up within 30 seconds, stop engine and determine cause.

FUELS. When handling gasoline, always provide a metal-to-metal contact between the container and tank. This will prevent a spark from being generated as gasoline flows over the metal surfaces.

MAINTENANCE. Prior to performing maintenance on the electrical system, ensure the battery is disconnected.

HIGH NOISE LEVEL. Noise in close proximity to an operating C-26C Generator Set, Engine Driven, can be detrimental to hearing acuity after prolonged exposure. A noise level in excess of 120 decibels can be expected. Personnel exposed to the high noise levels of the C-26C must wear fitted ear plugs and ear muffs in accordance with technical bulletin TB MED 251 titled "Noise and Conservation of Hearing."

CHANGE
NO. 4

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WASHINGTON, D.C., 12 August 1985

Operator's, Organizational, Direct Support
and General Support Maintenance Manual
Including Repair Parts and Special Tools Lists

GENERATOR SET, ENGINE DRIVEN MODEL C-26C
NSN 6615-00-127-8544

TM 55-6115-499-14, 27 April 1971, is changed as follows:

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2-3 and 2-4	2-3 and 2-4
3-13 and 3-14	3-13 and 3-14
3-25 and 3-26	3-25 and 3-26
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4-5 and 4-6	4-5 and 4-6

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Operator's Organizational, Direct Support
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GENERATOR SET, ENGINE DRIVEN MODEL C-26C

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Chapter 4	4-81 and 4-82	4-81 and 4-82

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Operator, Organizational, Direct Support
And General Support Maintenance Manual
Including Repair Parts and Special Tools List

GENERATOR SET. ENGINE DRIVEN
MODEL C-26C

NSN 6615-00-127-8544

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Table of Contents	i and ii	i and ii
Chapter 1	1-13 and 1-14	1-13 thru 1-14A/1-14B
	1-19 and 1-20	1-19 thru 1-20C/1-20D
	1-21 and 1-22	1-21 and 1-22
Chapter 4		4-4A and 4-4B
	4-15 and 4-16	4-15 and 4-16
	4-37 thru 4-40	4-37 thru 4-40A/4-40B
	4-79 and 4-80	4-79 and 4-80
	4-93 and 4-94	4-93 and 4-94

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INTRODUCTION

SECTION I. GENERAL INFORMATION

1-1. SCOPE.

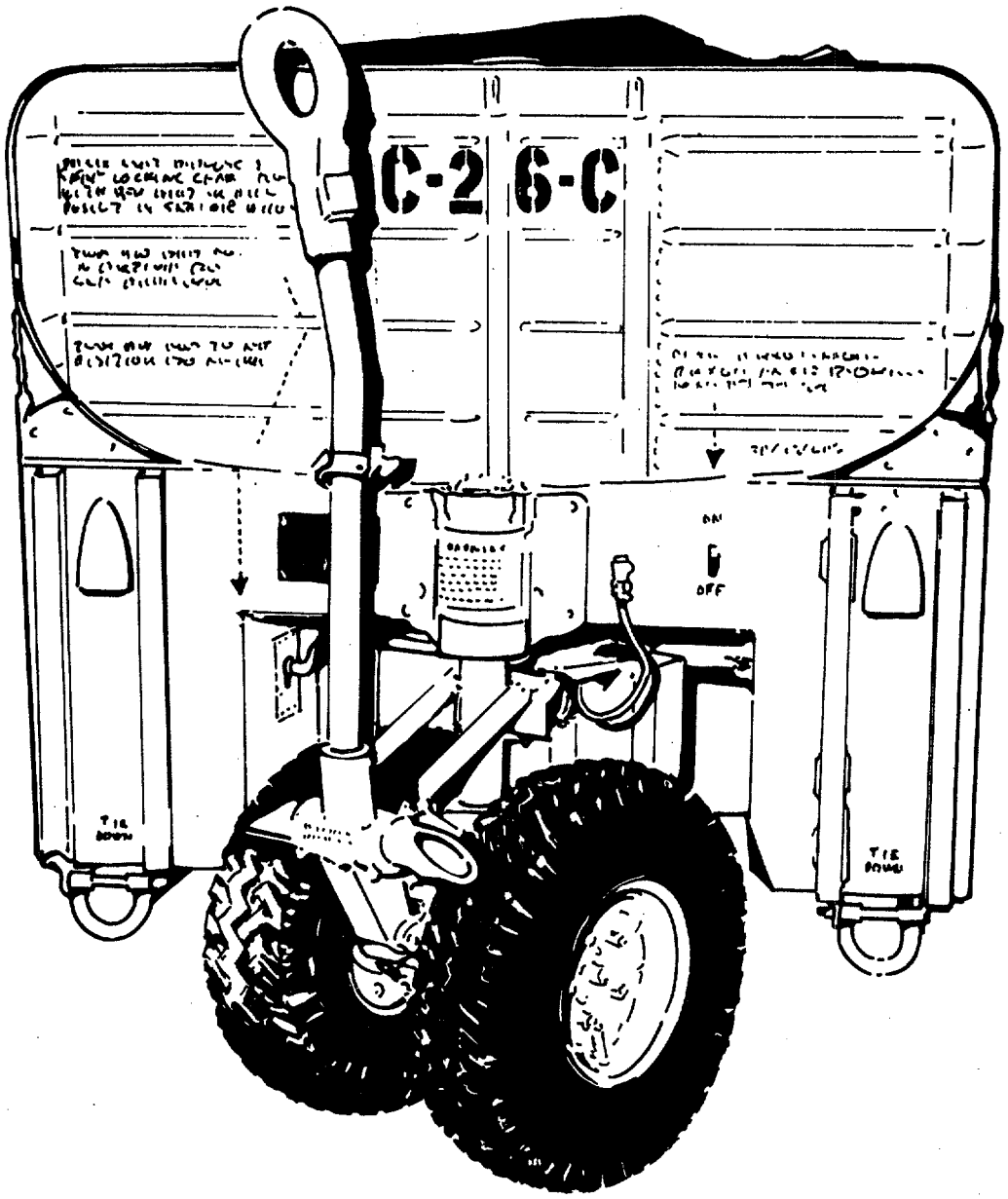
This publication comprises operation and service instructions for the C-26C Generator Set. (See figure 1-1.) The C-26C Generator Set is designed to furnish both 28-volt direct current and 115-volt alternating current for ground servicing of aircraft and for starting aircraft engines. This manual describes, in detail, maintenance allocated to the operator, organizational, direct support, and general support maintenance personnel by the maintenance allocation chart.

1-2. FORMS AND RECORDS.

Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

1-3. REPORTING OF ERRORS.

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028, Recommended Changes to DA Publications, and forwarded direct to: Commander, US Army Aviation Systems Command, ATTN: AMSAV-MPSD, 4300 Goodfellow Blvd., St. Louis, Mo. 63120-1798.



FRONT VIEW

HANDLE UNLATCHED

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Figure 1-1. C-26C Generator (Sheet 1 of 5)

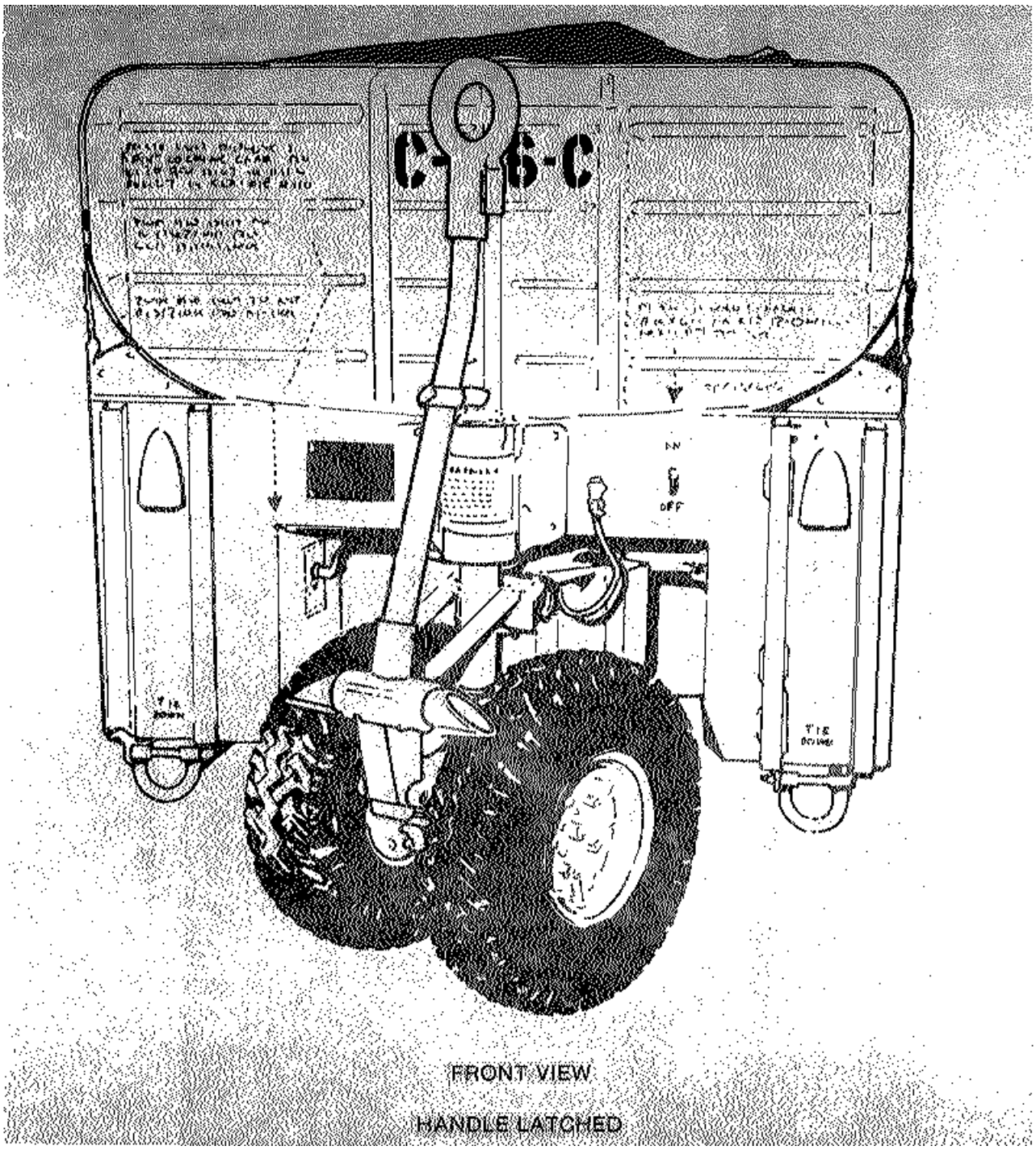


Figure 1-1. C-26C Generator (Sheet 2 of 5)

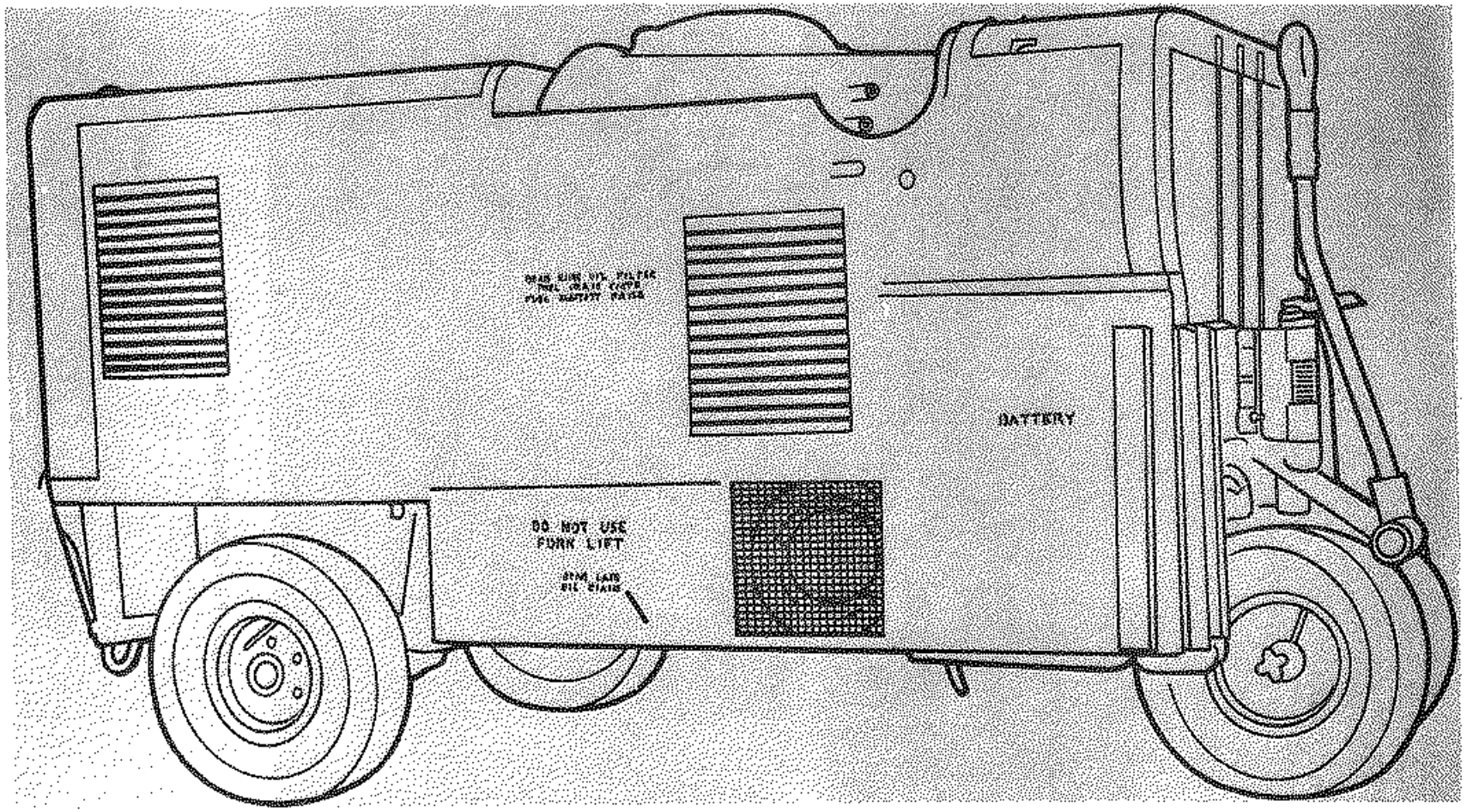


Figure 1-1. C-26C Generator (Sheet 3 of 5)

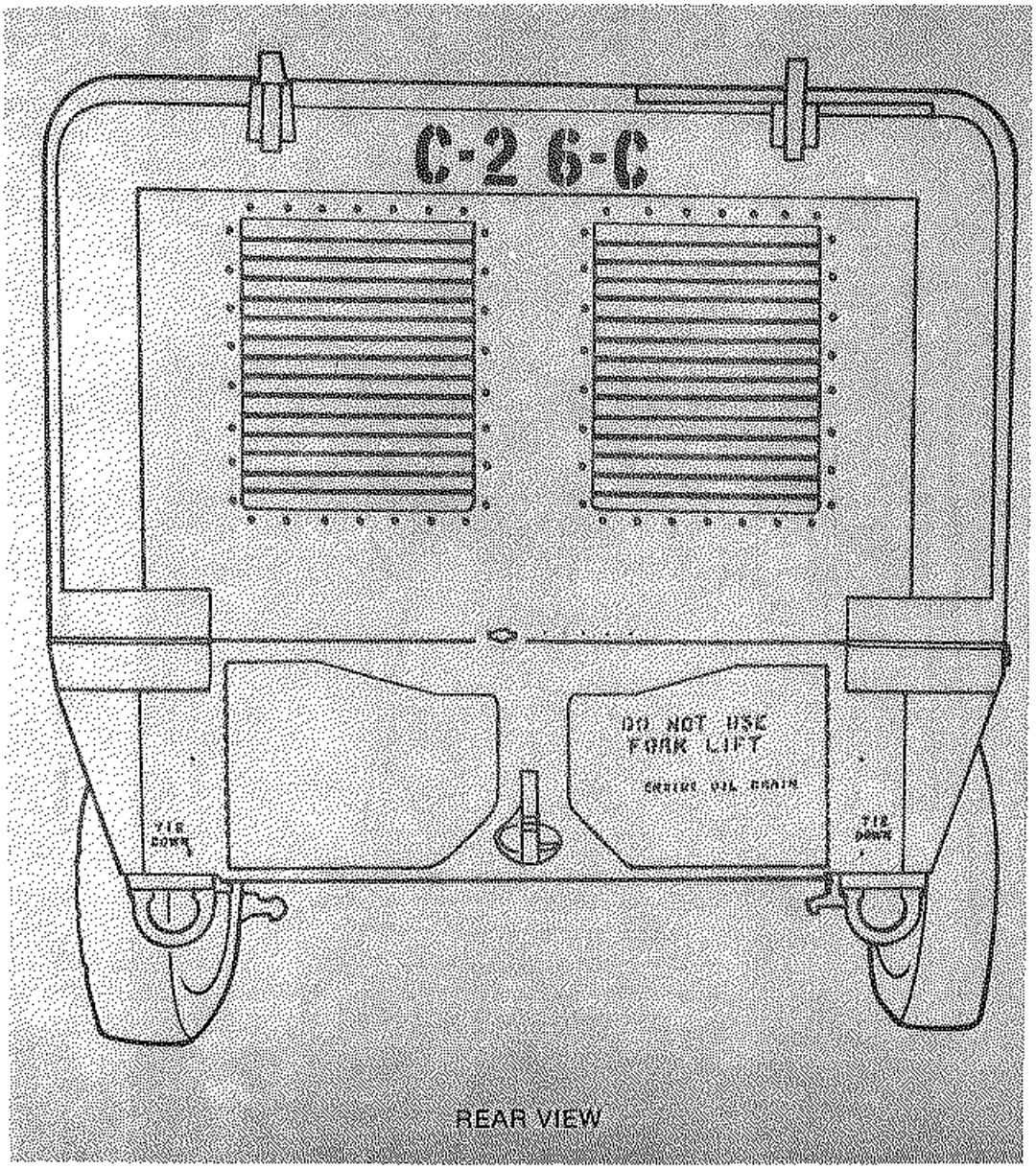


Figure 1-1. C-26C Generator (Sheet 4 of 5)

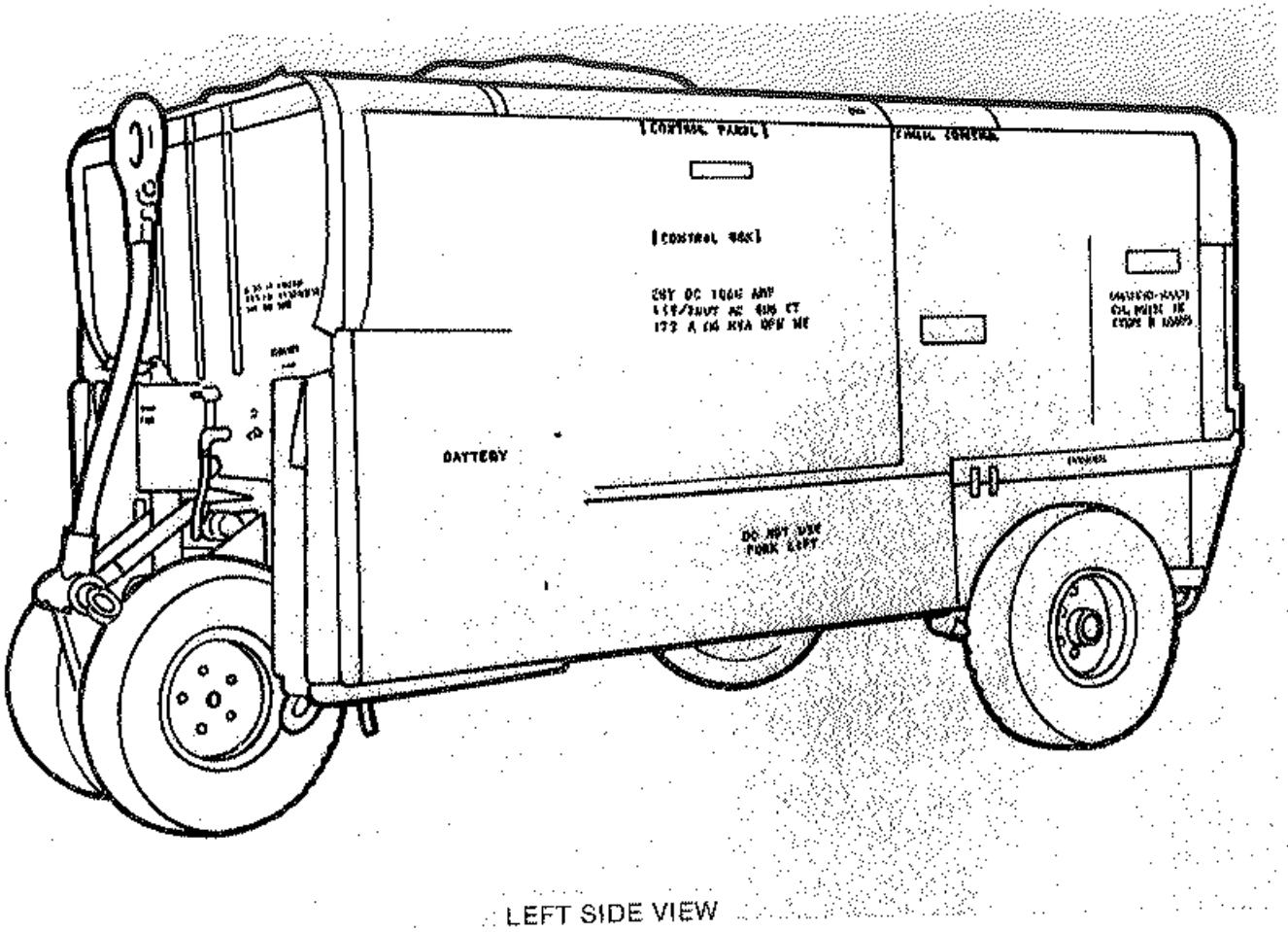


Figure 1-1. C26C Generator (Sheet 5 of 5)

SECTION II. DESCRIPTION AND LEADING PARTICULARS

1-4. General Description.

The C-26C Generator Set is manufactured by the Beech Aircraft Corporation, Wichita, Kansas, under Model Number 235 and by O.E. Szekely and Associates, Philadelphia, Pennsylvania. The C-26C Generator Set is a split bus type which can accommodate aircraft equipped with either single bus or split bus electrical systems. The C-26C generator set consists of a light weight, air cooled, six cylinder, internal combustion engine; a three phase alternator; two direct current generators; regulating circuitry, and a gearbox, all mounted into a self-propelling front-wheel drive unit.

1-5. Component Description.

1-6. Direct Current Generators.

Direct current is produced by two No. G-32-3, 30-volt aircraft generators that are mounted on the forward end of the gearbox. The generators are controlled by the DC GEN switch on the control panel. (See figures 1-2 and 1-3.)

NOTE

Generator No. 2 has been removed from the C-26C Generator Set. Generators No. 3 and 4 are direct current generators while generator No. 1 is an AC alternator. All placards and wiring identification reference generators No. 1 through 4. Disregard generator No. 2 placards and references.

1-7. Control Box and Panel.

Contained in the control box of the C-26C generator set (figures 1-2 and 1-4) are voltage regulators, relays, and other units which control the generators. The controls are mounted for convenient access for adjustment or replacement. The more delicate controls are mounted on rubber or spring-type shock absorbing mounts. The upper section of the control box houses the instrument and control panel. (See figures 1-2 and 2-2.) The instrument and control panel contains all instruments, controls and warning lights necessary for the operation of the set. Engine controls are mounted in a compartment on the left side of the enclosure. Heater engine controls are located on the side of the heater engine. A shield has been installed on the lower edge of the instrument panel door to provide protection from excess moisture entering the top of the control box.

1-8. Voltage Current Regulators.

Two voltage current regulators (1 and 2, figure 1-4), one for each DC generator, are installed in the control box. The regulators maintain a constant terminal voltage within current limits. Load current limits are established by a carbon pile connected in series with each generator. The two regulators are connected so small differences in voltage between the generators will tend to balance and provide equal output from both generators.

1-9. Control Shunt.

The current output from generators No. 3 and 4 flows through the control shunt. (See figure 1-5.) This results in a voltage drop across the shunt which is proportional to the amount of current flowing through the shunt. The voltage drop maintains a constant generator output. As the external load increases, the current control shunt causes the terminal voltage of the generator to rise. The voltage rise of the generator offsets the voltage drop through the external power cables and maintains 28 volts at the cable ends at high current rates. When current output of the generator reaches the limit set on the maximum current control switch, the control shunt circuit overrides normal voltage control. The voltage is thus lowered to prevent any increase in current output.

1-10. Overvoltage and Field Control Relay.

The control circuits of each generator contain an overvoltage relay. (See figure 1-4.) The overvoltage relays prevent damage to the equipment should voltage tend to rise beyond certain limits. If voltage rises above specified limits, the overvoltage relay energizes the field control relay (4 and 5, figure 1-4) of the circuits. Energizing the field control relay opens the field circuit, equalizer circuit, switch circuit, and all other control circuits, shutting off the generator completely. When energized, the relay closes the circuit to the amber light on the control panel of the affected generator. Resetting is accomplished by pushing the generator switch to RESET or by pushing the button on the relay.

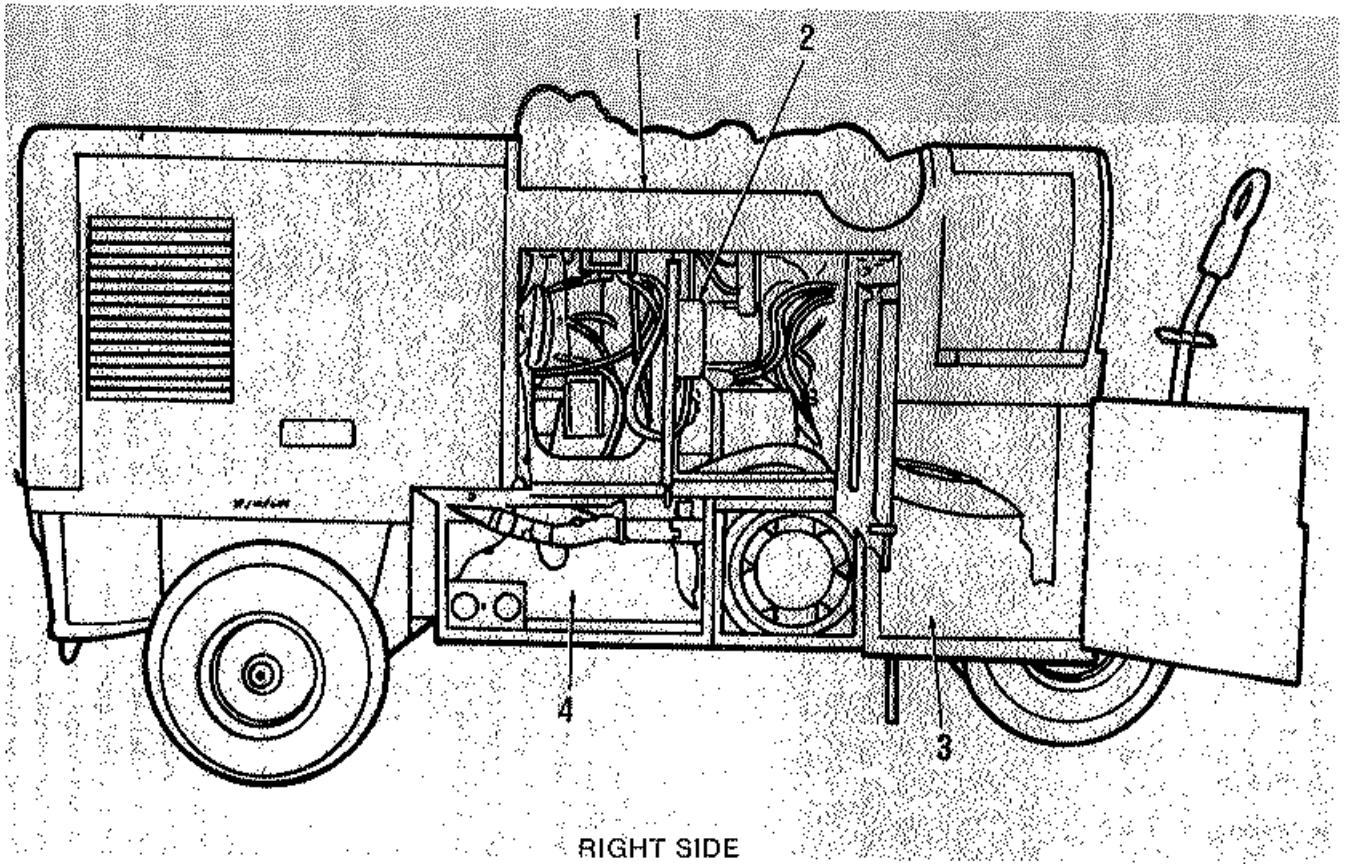
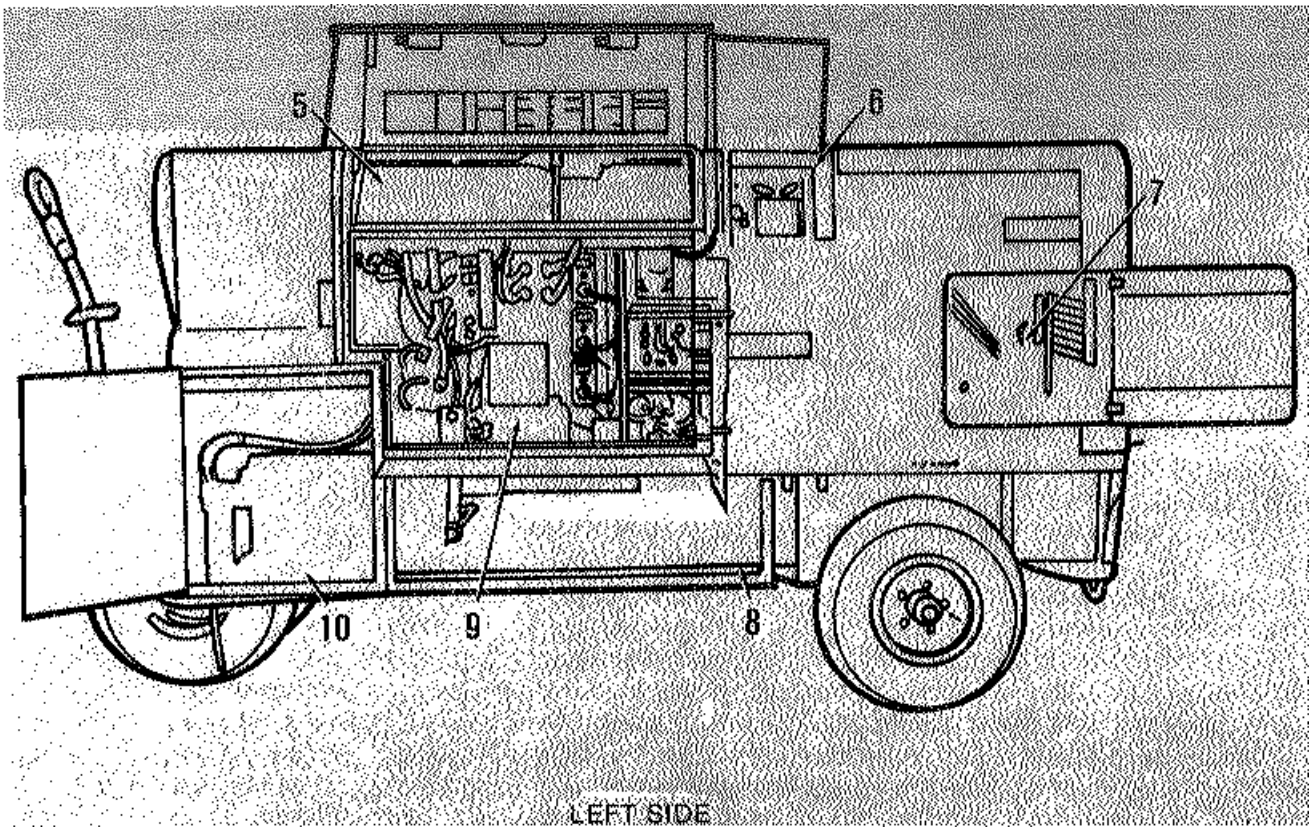


Figure 1-2. Generator set compartment (Sheet 1 of 2)



1. Cable storage compartment
2. Generator compartment
3. Right battery compartment
4. Compounding unit compartment
5. Control panel compartment
6. Engine controls compartment
7. Heater blower engine compartment
8. Storage compartment
9. Control box compartment
10. Left battery compartment

Figure 1-2. Generator set compartment (Sheet 2 of 2)

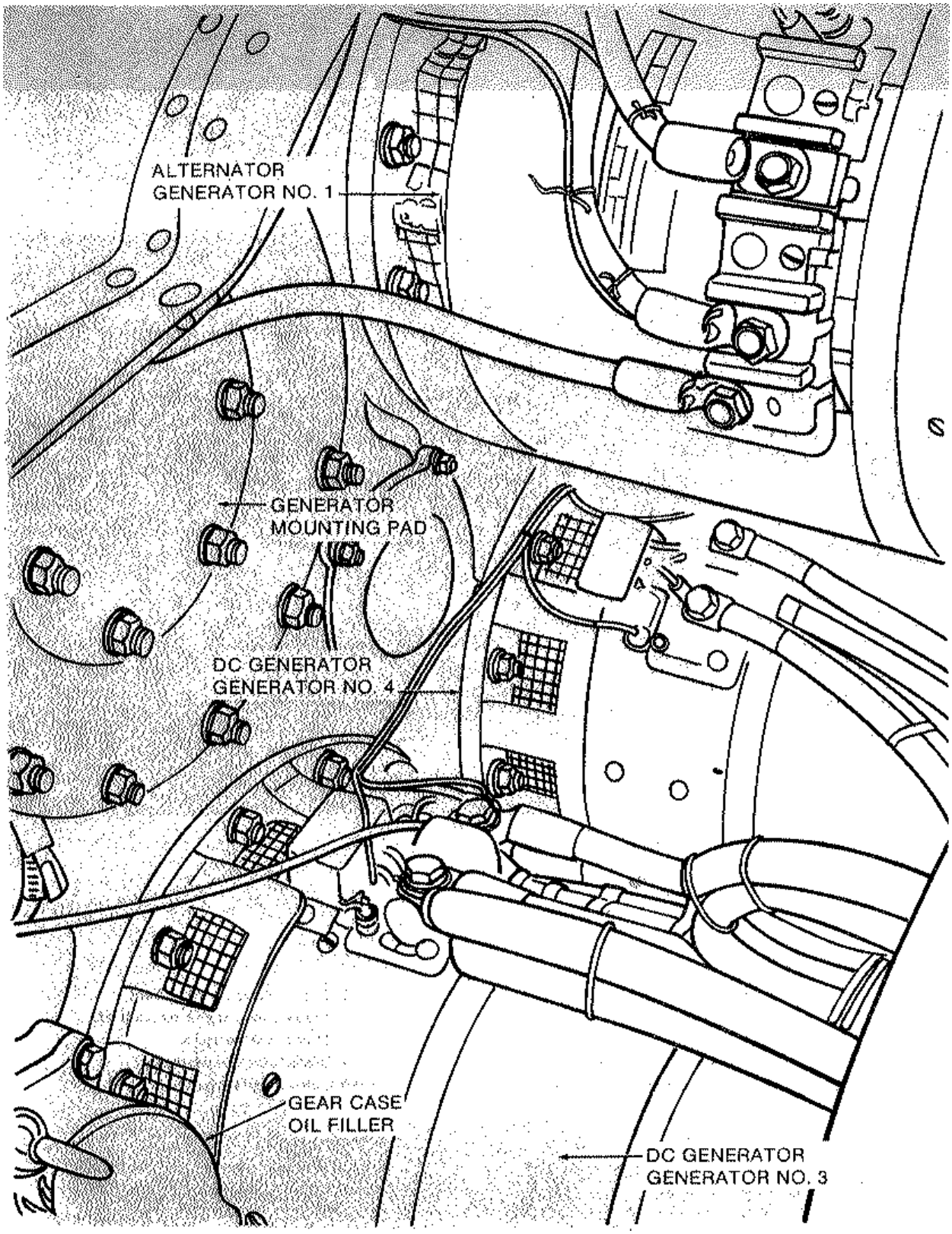
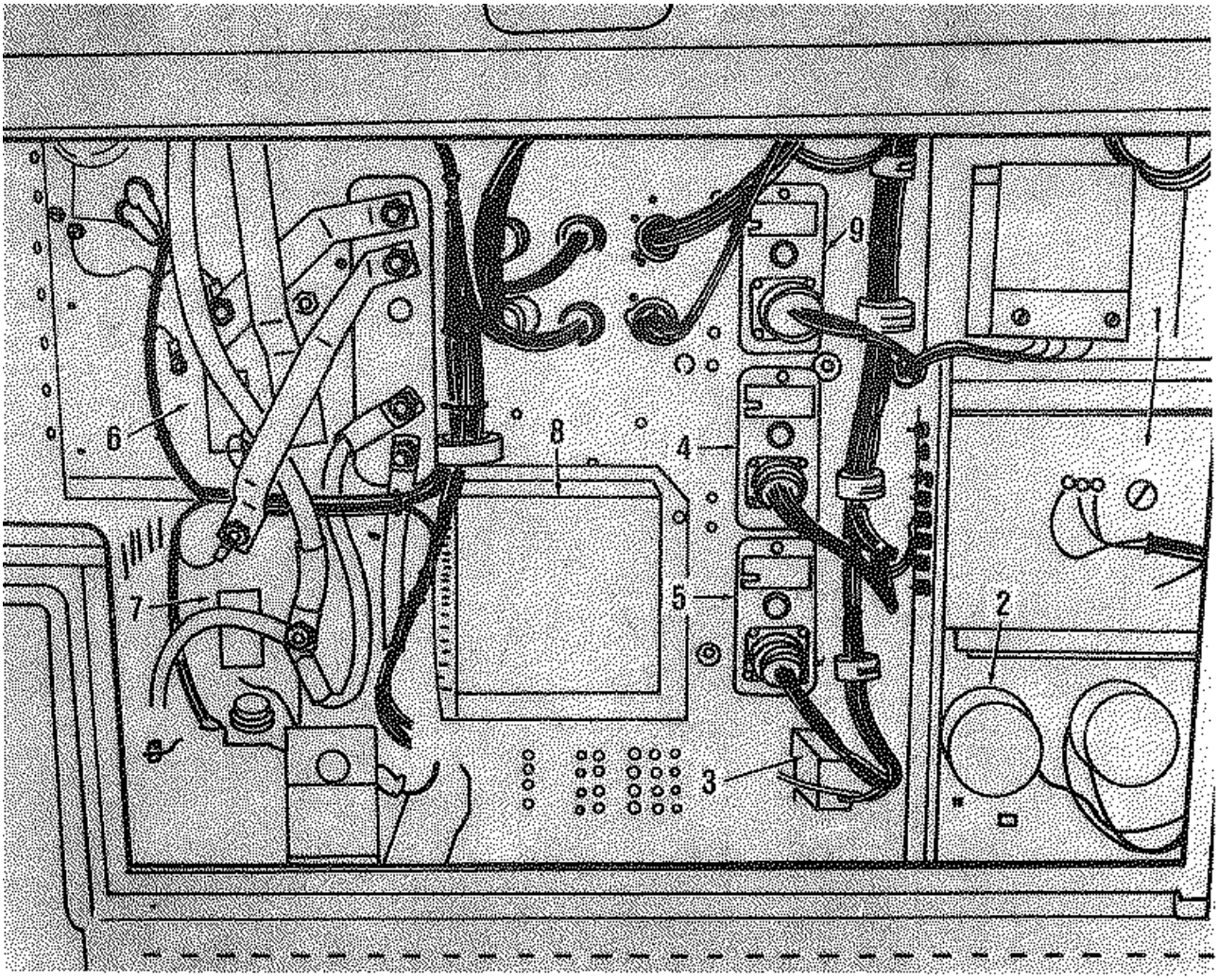


Figure 1-3. AC and DC generator location



1. Voltage-current regulator, Generator no. 3
2. Voltage-current regulator, Generator no. 4
3. DC overvoltage relay
4. Field control relay, Generator no. 3
5. Field control relay, Generator no. 4
6. Reverse current relay, Generator no. 3
7. Reverse current relay, Generator no. 4
8. Electronic carbon pile regulators
9. AC exciter control relay

Figure 1-4. Control box (Sheet 1 of 2)

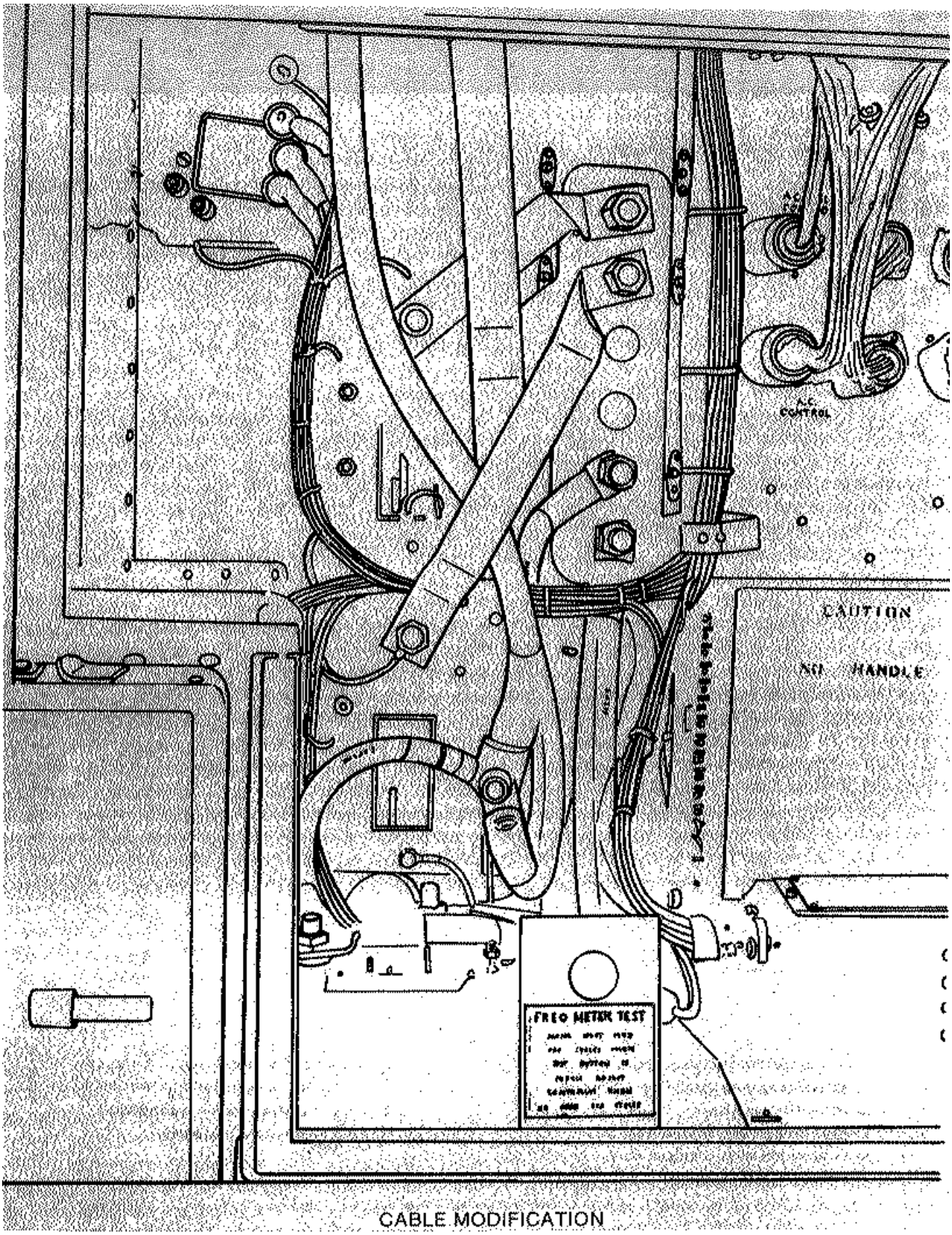
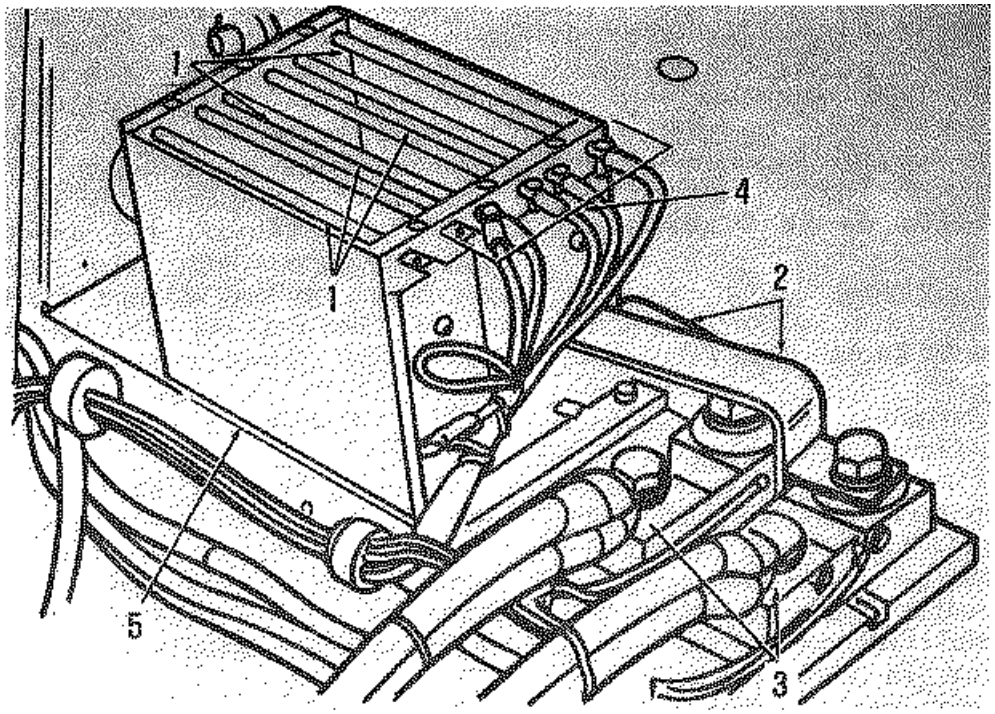


Figure 1-4. Control box (Sheet 2 of 2)



1. Shunt adjustment taps
2. Interconnecting bus bars
3. Meter shunts
4. Current control leaks
5. Control shunts

Figure 1-5. Control shunt

1-11. Reverse Current Relay.

Each generator on the generator set is equipped with a reverse current relay (6 and 7, figure 1-4) located in the dc power distribution box. The reverse current relay prevents a flow of current into the generator from the aircraft to which the C-26C is connected. A reverse current could occur if the C-26C generator voltage falls below the voltage of a generator or battery in the aircraft. The reverse current relay will automatically disconnect the generator set when a current of 16 to 24 amperes flows from the aircraft into the generator or when the generator voltage falls below the voltage in the aircraft system.

1-12. Battery Reverse Current Relay.

The battery reverse current relay prevents the flow of a reverse current from the batteries to the 28-volt bus if generator voltage falls below the voltage of the batteries. The control operates in the same manner as the reverse current relay described in paragraph 1-11.

1-13. Alternator.

The Type 28E03-1A. alternator (No. 1 generator) provides a three phase, variable frequency, alternating current. (See figure 1-3.) The alternator is bus-excited. The

rated capacity of the alternator is 15 KVA or approximately 131 amperes.

1-13.1. Brush, Type Generator.

The Model 2CM214B1B, Brush, Type Generator provides 3-phase, 4-wire, 400 Hertz 115 Volt, 45 KW alternating current.

1-14. Electronic Carbon Pile Regulator.

The electronically trimmed voltage regulator (8, figure 1-4) consists of a conventional type carbon pile regulator and an electronic sensing circuit which is comprised of a transformer, rectifier tube, a bridge circuit with a temperature-limited diode in one leg and a dual beam amplifier tube. The carbon pile regulator is connected in the conventional manner with the pile in series with the regulating field and the electromagnet connected across the alternating current output. However, in order to obtain closer voltage regulation, the electromagnet contains, in addition to the main winding, a center tapped differential winding or trimming coil. The main winding is energized through a full wave selenium rectifier and senses average line voltage. The center tapped differential winding is energized through the electronic circuit and, due to the temperature-limited diode in one leg of the bridge, senses the root mean square voltage. With changes in line voltage, the character- istics of the temperature limited diode change and cause a shift in the balance of the bridge which, in turn, changes the bias in the dual beam amplifier tube. The output of this tube feeds the center tapped differential winding. This section provides the necessary trimming required to change the pile resistance over and above the pile resistance which would result from the action of the main winding alone. The electronic circuit provides for regulation within approximately two percent accuracy against approximately five percent plus or minus in ordinary carbon pile regulation.

1-14.1. Lockout Relay.

The lockout relay operates when the reset button on the control panel is pressed the alternator will exceed the rated voltage on build-up which would result in tripping the over-voltage relay and stopping the production of alternating current. The lockout relay prevents the overvoltage from tripping until the initial voltage surge has passed and normal regulation has begun.

1-15. External Power Receptacle.

C-26C generator sets are equipped with only external power receptacles and outlets. Power outlets for paralleling two generator sets are not provided. See figure 1-6 for C-26C external power receptacle and outlets.

1-16. Engine.

The C-26C engine is the PE 150-2 packette (figure 1-7) and includes a fuel solenoid which prevents cylinders and crankcase from flooding upon engine stoppage. An oil pressure microswitch is also provided which prevents engine operation without sufficient oil pressure. The packette is a compact power unit built around a standardized type of lightweight, air-cooled, internal combustion engine with horizontally opposed cylinders and an integral (wet sump) lubrication system. The engine is adapted specifically for C-26C generator sets by a special fan inlet and gear housing at the front end with mount pads for three electric generators and one alternator. The fan outlet housing and shroud enclose the crankcase, cylinders, and the upper part of the oil sump. Two front mount bosses are part of the fan inlet and gear housing. Two rear mounting brackets are attached to the sides of the crankcase. The packette lifting eye is attached to the crankcase upper flange ahead of the intake manifold. The crankcase is split vertically through the crankshaft and camshaft bearings The halves of the crankcase are held together by through-volts and top and bottom flange bolts. Cylinders

are attached to crankcase by bolts and studs. Overhead valves are seated by two springs each and turned slightly each cycle by rotator caps which are depressed by rockers pivoted on full floating shafts. Push rods are enclosed in removable housings below the cylinders and actuated by zero lash hydraulic valve lifters in the crankcase.

NOTE

Only two generators, No. 3 and No. 4, and one alternator (generator No. 1) are used.

1-17. ENGINE GOVERNOR.

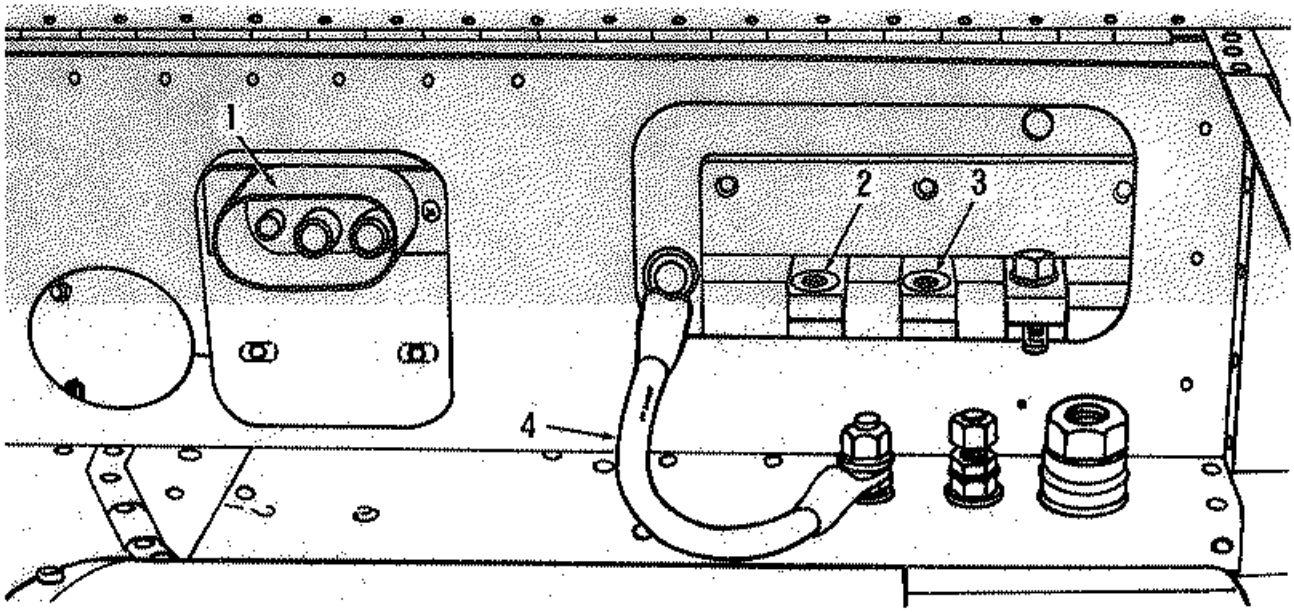
The C-26C generator set has a Woodward PSG governor which senses any variance in the intake manifold pressure. The speed of the engine is instantly adjusted so the engine will deliver power equal to the combined torque load on the power take-off shafts. (See figure 4-22.)

1-18. GENERATOR GEARBOX.

The generator gearbox is bolted directly to the flywheel housing of the engine. It contains a system of gears for driving the generator and the engine cooling blower. A flex coupling and a short shaft connect the engine crankshaft to the main gear. Standard mounting pads are provided on the back of the case for generator installation. The engine starter is mounted at the bottom of the gearbox and engages directly with the ring gear to the engine flywheel. Mounting lugs, one on each side, support the gearbox in the chassis.

1-19. HEATING SYSTEM.

Cooling air for the PE 150-2 Power Packette is circulated by the large fan on the engine flywheel. The fan forces air backward and around the outlet housing where turning vanes catch the air and divert it into the engine shroud. Cooling air, as it passes through the engine shroud and between the cylinder cooling fins, absorbs heat. Heat is then dissipated through shutters in the lower portion of the engine compartment. Shutters are held in a closed position.



1. External power receptacle
2. Power outlet, 28 volts dc No. 3
3. Power outlet, 28 volts dc No. 4
4. Terminal ground wires

Figure 1-6. External power receptacle and DC power outlets

by a spring when air temperature is low. As temperature in the engine compartment rises, the shutters are opened by a Sylphon actuator mounted on the left shutter. This permits a quick engine warm up. Other turning vanes direct a portion of the airstream backward and through the openings of the oil cooler where heat from the engine lubricating oil is absorbed as the oil passes through the cooler. The main heating system directs hot air from the engine shroud to each battery compartment by means of a single duct which enters the engine shroud on the left side. (See figure 1-8.) Heated air travels through the duct and forward along the floor of the generator set to a temperature control unit located just aft of the fuel tank. At the temperature control unit, the heated air is diverted by a tee to each battery compartment.

1-20. Auxiliary Preheating System.

Preheating of the C-26C generator set is accomplished by attaching an external heating source to the external heater receptacle at the right rear access door. (See figure 1-8.). This air is forced by a gasoline engine driven blower through a tube and duct to the rear inlet port, located at the bottom of the preheat and air mixing valve housing. The preheat and air mixing valve is located behind No. 1 cylinder. The valve housing has a cold air inlet at the right side and an inlet at the bottom connected to the exhaust manifold jacket. The exhaust manifold jacket ends are connected to receive air from the flywheel fan. The heater burner exhaust gases are passed through a tube to the entrance of a finned heat exchanger passage cast inside the oil sump thereby warming the oil supply. The exhaust gases pass from -the sump through a tube to the inlet of an oil sump heat exchanger in the bottom of the fan inlet and gear housing. They are exhausted through a port on the left of the housing. The preheat air passage through the mixing valve housing to the crankcase is not obstructed when the engine is not running, but the passage connecting it to the carburetor is controlled by a solenoid operated butterfly valve which is normally held shut by a spring. The rotary

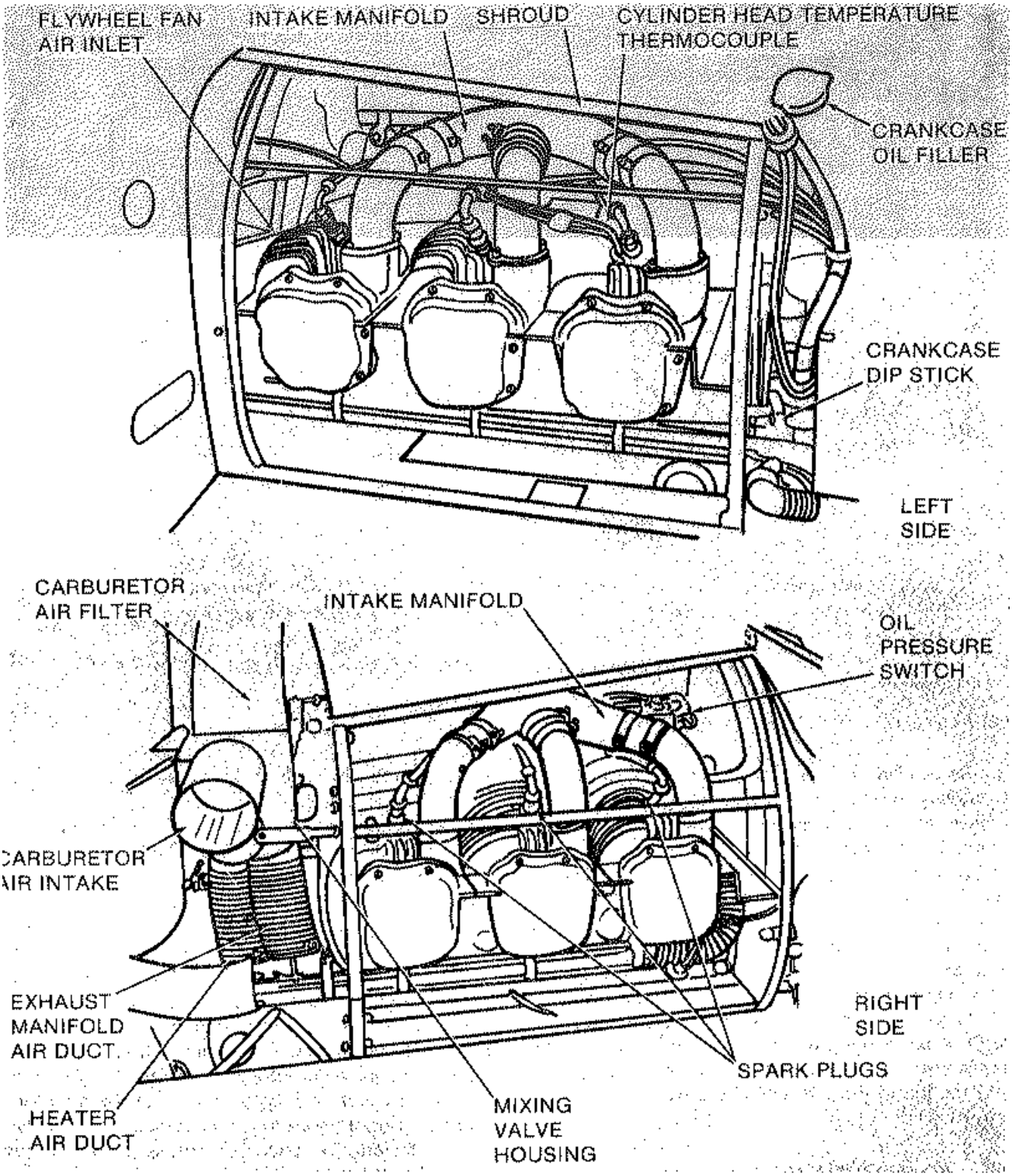


Figure 1-7. PE150-2 power packette

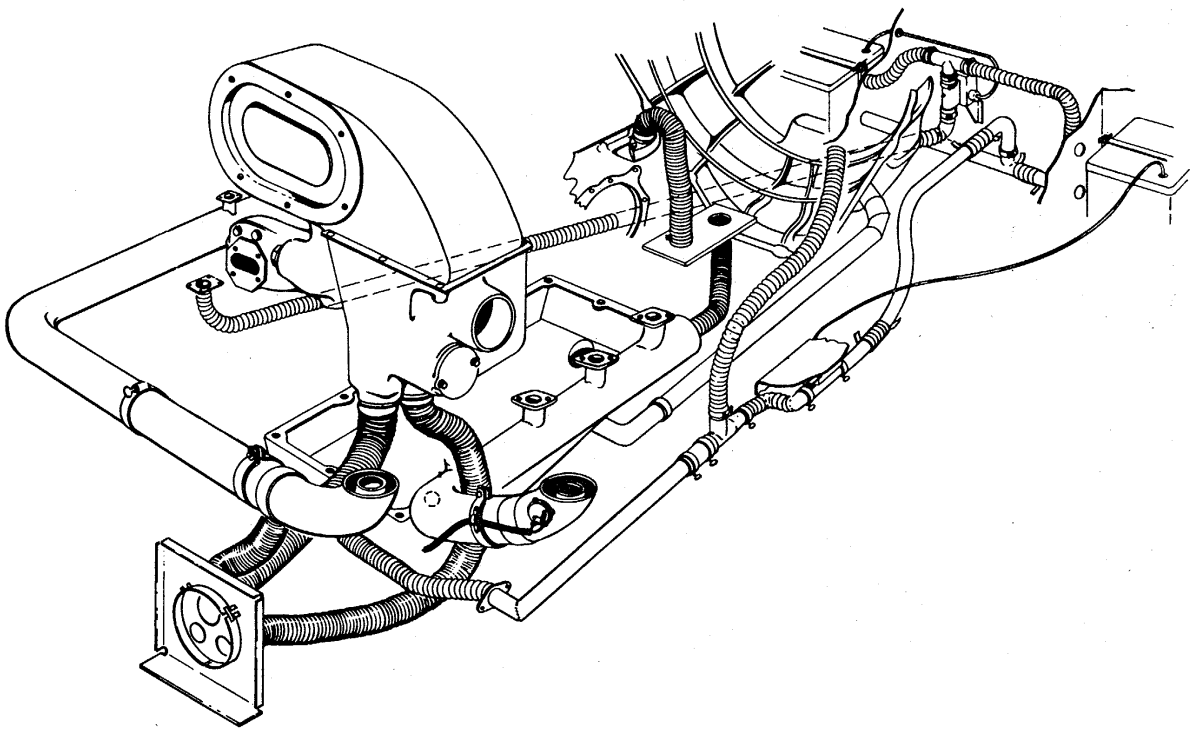


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Figure 1-8. Heater compartment

solenoid is actuated by 24-volt battery current in a circuit controlled by a thermo-sensitive switch screwed into the oil sump and in series with another thermoswitch attached to the exhaust jacket cross tube. The sump thermoswitch is closed at temperatures below 300° F (149° C) and open at higher temperature. The exhaust jacket thermoswitch is closed below 100° F (38° C) and open at higher temperatures. When both thermoswitches are closed, electric current actuates the rotary solenoid to open the butterfly valve and admit warm air from the heater to the carburetor. This occurs only during the engine warm-up period. Exhaust jacket air is controlled by a butterfly valve below and on the same shaft with the cold air entrance butterfly valve. The two valves are at right angles so that when one is wide open the other is closed. Cold air and warm jacket air passing through the valves are mixed in the top of the mixing valve housing. The resulting air temperature affects a bimetal spiral fastened to the valve shaft and causes it to expand or contract in response to temperature changes. This positions the jacket air and cold air valves to maintain 60° F air temperature when the atmospheric temperature is 60° F or lower. Air mixed by these valves is drawn by manifold vacuum through the air filter housing and filter element, then through an adapter into the carburetor. Before the engine is started the governor adapter valve is held open by a spring in its oil pressure valve allowing warm air from the heater to pass through the governor adapter, on which the mixing valve is mounted, and into the accessory case, thence into the crankcase to warm it. This warm air is exhausted through the crankcase heater outlet valve and through its connecting duct to the space below the cylinders. Pre-heat air dumped below the cylinder baffles rises between the cylinder fins and escapes through the fan. The governor adapter and crankcase outlet butterfly valves are closed by oil pressure valves when the engine is running. This opens the breather tube in the governor adapter to the air filter housing. Connected to the tee at the Stewart-Warner heater is a duct leading out under the fender and diverted by a tee to the two battery compartments. The valve which controls the temperature in the battery compartments is located between the fuel tank and the cooling air manifold. The control for the valve is a Bourdon tube located under the lid of the right battery. The unit receives fuel from the main fuel tank, while the heater blower engine receives its fuel from an auxiliary tank. The auxiliary tank is necessary due to the fact that a lubricant must be added to the fuel for the heater blower engine. Operating pressure is obtained with fuel sump and pressure valve operated by the heater blower engine.

1-21. Generator Cooling System.

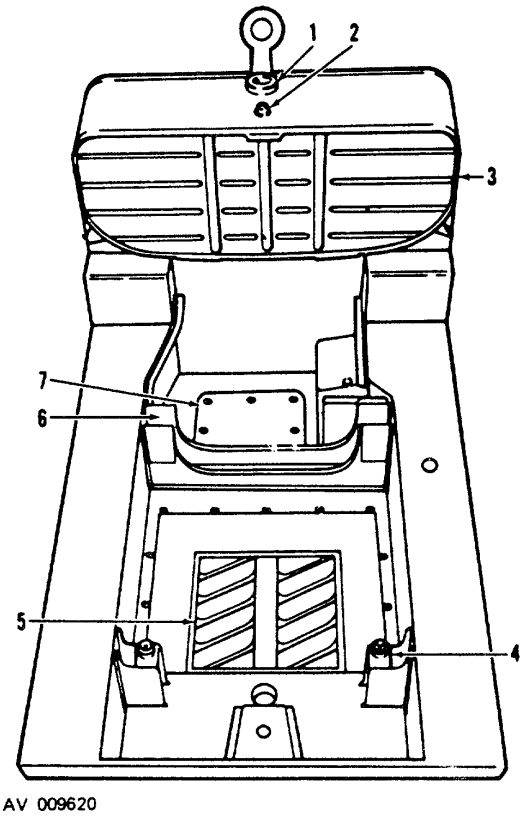
The generator cooling system for the C-26C generator sets consists of a 28-volt 2-1/4 horsepower electric motor operating at 8000 rpm which rotates an aircraft type axivane fan. The fan is located in a mesh protected compartment in the lower right section 6f the generator set. A manifold assembly, located just aft of the fan, provides a distribution point for the cooling air. The air is directed through flexible ducts to the DC generators, battery compartment, control shunt and the control box. A red light on the control panel will indicate warning if cooling air pressure falls below the level for safe operation of the generators.

1-22. Batteries and Compartments.

Enclosed in each battery compartment on either for- ward side of the generator chassis is a 24-volt, 36 ampere-hour aircraft battery. The batteries are received dry and must be filled with the 1.275 gravity electrolyte solution (item 14, table 1-2). These batteries supply power for starting and for control panel lights. The battery in the left compartment is provided with a thermoswitch which opens the battery relay at 130° F (54.4° C) to prevent further charging. The battery compartments are connected to 'the heating and cooling systems by ducts. A Bourdon tube in the right battery compartment, under the lid of the battery, activates a temperature control pressure switch. This tube controls the pre-start hot air to the battery compartments. Another Bourdon tube, under the lid of the left battery and actuating a temperature control switch mounted on a bracket just aft and below the fuel tank, controls the hot air from the engine shroud. A bimetal strip located in the cold air duct regulates the cold air from the cooling system, thus maintaining a controlled temperature in the battery compartments.

1-23. Generator Set Chassis.

The generator set chassis is constructed of formed and riveted sheet aluminum. (See figure 1-9.) The chassis is reinforced to afford a sturdy mounting of the power packette unit and other components of the generator set. Angles, riveted in a vertical position to each side of the chassis and just above the rear axle, provide suspension points for the rear mounts of the engine. The forward engine mounts are secured in similar angles riveted to the chassis slightly forward of the engine cooling fan housing. Ventilating louvers located in the bottom of the chassis assembly and back of the forward section, discharge air for engine and generator cooling. A tiedown ring is installed on each lower corner. The rear suspension for the chassis assembly consists of two automobile type leaf springs mounted to the chassis by shackle bolts, a tubular axle and split wheels with pneumatic rubber tires. The chassis is suspended at the forward end by the front drive assembly.



1. Fuel tank cap
2. Fuel (gage
3. Fuel tank
4. Rear engine mounts
5. Cooling louvers
6. Front engine mounts
7. Access covers

Figure 1-9. Generator set chassis

A mounting bracket, fitted with thrust bearings at the top and bottom and bolted to the chassis, supports a vertical shaft which is attached to the casting between the front wheels . The entire set is protected by an enclosure with built in access doors permitting servicing of the various components. By removing sections of the enclosure, access may be gained to all parts of the set . The power cables are stowed in the compartment in the top of the enclosure.

1-24. Front Wheel Drive Unit.

The front wheel drive system of the C-26C generator set is mounted in the front wheel assembly. (See figure 1-10.) The system consists of a reversible, variable-speed, 28-volt electric motor which turns a fully enclosed ring gear driving the front wheels through a differential . A coupling drive handle in the right wheel hub is provided to disconnect the drive from the front wheels and permit towing the generator set behind another vehicle . The electric drive motor is supplied with current from the dc generators of the generator set. A master circuit breaker for the front wheel drive is located on the front of the chassis . A two position switch, one for forward and one for reverse, is located in the towbar handle just below the lunette . The lower end of the towbar is formed into cam surfaces that actuate microswitches to select the speeds of the drive. Moving the towbar from vertical to horizontal engages the switches, selecting successively faster speeds . When the towbar is fully vertical, none of the micro- switches are engaged and the crosspiece on the towbar acts as a parking brake. The towbar may be latched in the braking position by means of a hook that engages the top of the vertical pivot shaft. The vertical pivot shaft ;s equipped with thrust bearings above and below the heavy mounting bracket which attaches the front wheel assembly to the chassis. The entire front wheel assembly can be removed from the chassis by removing four nuts, four washers, the plate, and disconnecting one AN type connector from the front of the chassis.

1-25. Leading Particulars.

The leading particulars for the C-26C generator set are listed in table 1-1.

Table 1-1. Leading Particulars

Tires	
Size	6:00 by 9
Pressure	
front	15 psi
rear	20 psi

Table 1-1. Leading Particulars (Cont'd)

Fuel Capacity
Main Engine 50 gallons
Oil Capacity
Crankcase 12 quarts
Transmission, 2 quarts
Spark Plugs
Part Number MS51009-1
Gap Setting 0.035
DC Generators
Type Number G-32-3F
Output Voltage - unregulated 30 volts
Output Amperage Maximum 500 amperes
AC Alternator
Model 2CM214B1B
Output Voltage 115 volts - 3 phase
400 Hertz Power 45 KW
AC Alternator
Type Number 28E03-lA
Output Voltage 115 volts - 3 phase
Power Maximum 15 KVA
Batteries
Voltage 24 volts

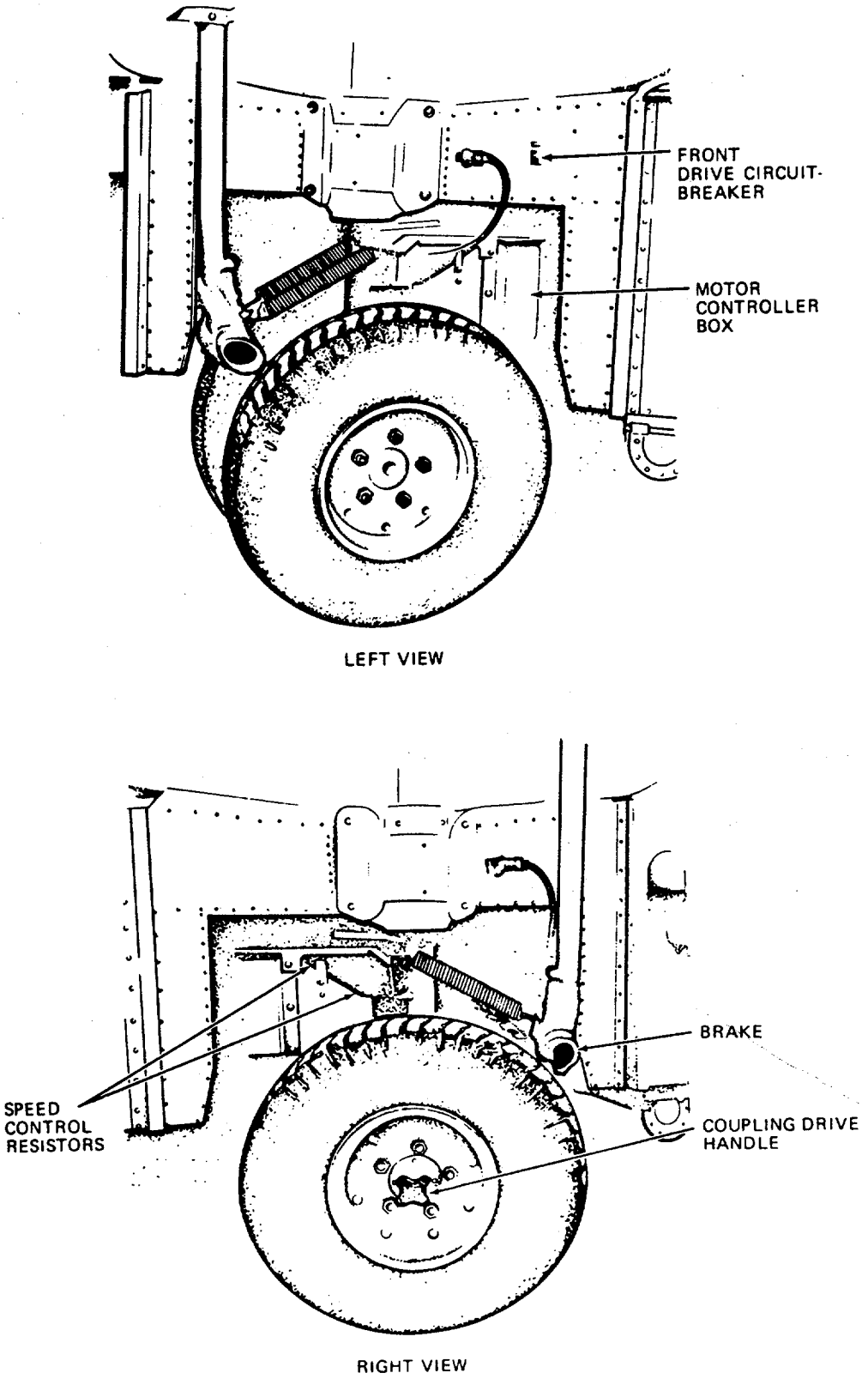


Figure 1-10. Front drive

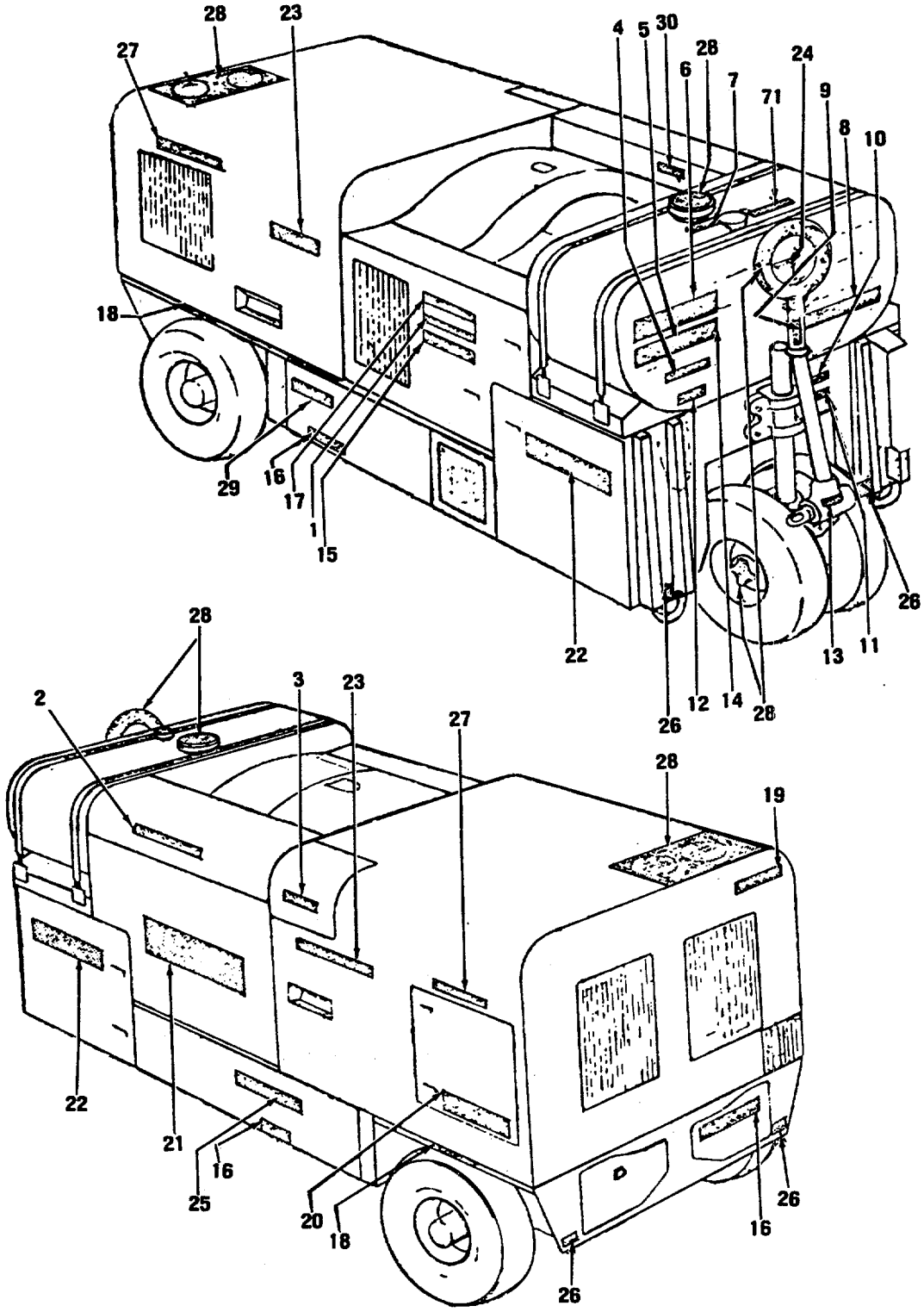


Figure 1-11. Stenciling and Markings for Generator Set (Sheet 1 of 2)

1. GEAR CASE OIL FILLER INSIDE
2. CONTROL PANEL
3. ENGINE CONTROLS
4. TURN RED KNOB TO OUT POSITION FOR TOWING
5 TURN RED KNOB TO IN POSITION FOR SELF PROPULSION
6 THIS DRIVE UNIT EMPLOYS A SELF-LOCKING WORM GEAR TOWING WITH RED KNOB IN WILL RESULT IN SERIOUS DAMAGE
7 FUEL SPECIFICATION VV-G-76 GRADE R.O.N.94 (RESEARCH OCTANE NR. 94) CAPACITY 50 U.S. GALLONS
7.1. DO NOT FILL FUEL TANK WITHIN 3 INCHES OF TOP OF FILLER NECK
8 PLACE CIRCUIT BREAKER IN OFF POSITION WHEN NOT IN USE
9 WARNING SPRING LOADED - (TWO REQUIRED) APPLY STENCILS IMMEDIATELY BELOW THE LUNETTE COUPLER EYE; ONE ON THE FRONT AND ONE ON THE BACK OF THE TOWBAR AS VIEWED WHEN IN THE STOWED OR VERTICAL POSITION
10. ON
11. OFF
12. TP 15 PSI-
13. MIL-L-2105 SAE 30 OIL 2 QUARTS
14. FRONT WHEEL DRIVE, ARROW
15. ENGINE FUEL SHUT-OFF VALVE
16. DO NOT USE FORK LIFT
17. FUEL TANK DRAIN VALVE
18. TP 20 PSI
19. DANGER HOT EXHAUST
20. CHECK OIL EACH 5 HOURS OF USE
21. 28V 500A DC SPLIT BUSS 115V 3PH 4 WIRE 400 HZ 60KVA 175A
22. BATTERY
23. HEARING PROTECTION REQUIRED WITHIN 60 FEET
24. C-26C
25. LOGBOOK INSIDE
26. TIE DOWN
27. REGISTRATION NO#
28. SAFETY MARKINGS FLAT RED
29. AUX POWER 115V 1PH 400HZ
30. SLAVE RECEPTACLE

Figure 1-11. Stencilings and Markings for Generator Set (Sheet 2 of 2)

Section III. TEST EQUIPMENT, SPECIAL TOOLS, AND MATERIALS

1-25.1. Stenciling and Marking.

Informational markings are stenciled in flat black color. Warning and safety markings are stenciled in flat red color. For location of stenciling and markings refer to figure 1-11.

1-26. Test Equipment.

There is no test equipment required to perform the maintenance procedures prescribed in the technical manual.

1-27. Special Tools.

There are no special tools required to perform the maintenance procedures prescribed in this technical manual.

1-28. Materials.

All consumable materials required to perform the maintenance procedures prescribed in this technical manual are listed in table 1-2.

Table 1-2. Consumable Materials

Item number	Nomenclature	Military Specification
1	Solvent, dry cleaning	P-D-680
2	Petrolatum, technical	VV-P-236
3	Barrier material, greaseproof	MIL-B-121
4	Tape, pressure sensitive	PPP-T-60
5	Oil (SAE 50)	MIL-L-2104B
6	Oil (SAE 30)	MIL-L-2104B
7	Oil (SAE 10)	MIL-L-2104B
8	Fuel (Grades 80/87 through 115/145 octane)	MIL-G-5572
9	Fuel (Grade A)	MIL-G-3056
10	Fuel (Grade C)	MIL-G-3056
11	Fuel (Regular)	VV-G-76
12	Fuel (Premium)	VV-G-76
13	Oil (SAE 10)	MIL-0-2104
14	Electrolyte (Specific gravity 1.275)	
15	Solvent	P-S-661
16	Sandpaper (No. 0000)	
17	Lubricant (Grade 80)	MIL-L-2105
18	Lubricant	MIL-L-10324

Table 1-2. Consumable Materials (Cont)

Item number	Nomenclature	Military Specification
19	Grease	MIL-G-25760
20	Lubricant	MIL-L-2104A
21	Tape. insulating	HH-I-595
22	Sleeving, insulating	MIL-I-7444
23	Cord, lacing	MIL-C-572

CHAPTER 2

OPERATING INSTRUCTIONS

2-1. Introduction.

This chapter contains detailed operating instructions for the C-26C engine driven generator set. Before operating the generator set, refer to the WARNING page in the front of this manual. For an understanding of the principles of operation refer to Chapter 1.

2-2. Operating Controls.

Table 2-1 lists the purposes and use of each operating control. Table 2-2 details the purpose, use and interpretation of readings for indicating instruments. Figures 2-1 through 2-2 show the operating controls and their location.

Table 2-1. Operating Controls

CONTROL	PURPOSE	USE
	ENGINE OPERATING CONTROLS (On engine control quadrant. See figure 2-1.)	
THROTTLE	Controls engine speed	Pulled out causes engine to idle. Pushed all the way in puts engine under control of governor.
CHOKE	Assists starting engine in cold weather.	Choke is pulled out while engine is cranked to enrich carburetor mixture during starting.
STARTER button	Starts engine by energizing starter motor and bendix.	Starter is pressed until engine ignition takes hold.
	DC CONTROLS (On the control and instrument panel. See figure 2-2.)	
Panel LIGHTS switch	Permits lighting of control panel when operating generator set at night.	Switch is placed to ON position when panel lighting is desired.
VOLTAGE SELECTOR switch	Permits reading of dc system.	
		NOTE The generator set has an individual ammeter for each DC generator. These meters monitor the output of their respective generator at all times and are not affected by VOLTAGE SELECTOR switch.

Table 2-1. Operating Controls (Cont)

CONTROL	PURPOSE	USE
		In BAT position, battery voltage is read on voltmeter. Ammeter will not indicate in this position. In GEN 3 position, output of generator No. 3 can be monitored on ammeter and voltmeter. In GEN 4 position, output of generator No. 4 can be monitored on ammeter and voltmeter.
BAT circuit breaker	Protects accessory equipment from overloads.	When circuit breaker has tripped due to overload, push to reset.
DC GEN switch	Switches generators on and off, and resets field control relay.	Switch is placed in ON position when generator is to produce direct current. Switch is momentarily held in RESET position when exciter field relay has been tripped due to an overload upon generator.
IGNITION BATTERY switch	Opens magneto ground circuit and closes battery circuit to energize ignition system of engine.	Switch is placed in ON position when engine is to be started.
	AC CONTROLS (On the control and instrument panel. See figure 2-2.)	
AC GEN switch	Provides a means of exciting alternator to generate alternating current.	Switch-is placed in ON position whenever generator is to produce alternating current.
AC exciter circuit breaker	Provides overload protection for exciter field coils.	When circuit breaker has tripped due to overload, push to reset.

Table 2-2. Indicating Instruments

INDICATING INSTRUMENT	PURPOSE	USE	INTERPRETATION OF READINGS
DC AMMETER No. 3	Indicates current being used from generator No. 3.	Indicates current output of generator No. 3.	
DC AMMETER No. 4	Indicates current being used from generator No. 4.	Indicates current output of generator No. 4.	
DC VOLT-METER	Indicates voltage delivered by generators and battery.	VOLTAGE SELECTOR switch in BAT position indicates battery voltage.	Should indicate 24 volts at full charge.
		VOLTAGE SELECTOR switch in GEN 3 position reads voltage of generator No. 3.	Any voltage less than 27.5 ±1.5 volts indicates a malfunction or maladjustment, except under current limiting conditions.
		VOLTAGE SELECTOR switch in GEN 4 position reads voltage of generator No. 4	Any voltage less than 27.5 ±1.5 volts indicates a malfunction or maladjustment, except Under current limiting conditions.
AC AMMETER	Indicates current delivered by alternator.	Monitors alternator circuit output whenever alternating current is being produced.	Any amperage up to 136 amperes continuous use is normal. Overload to 170 amperes for no longer than five minutes is allowable.
AC VOLT-METER	Indicates voltage delivered by alternator.	Monitors alternator voltage output whenever alternating current is being produced.	Normal indication is 115 volts at no load; any other reading indicates malfunction, maladjustment, or overload.
CYLINDER HEAD TEMPERATURE GAGES	Indicates temperatures existing in crankcase and cylinder head.	Serves to indicate proper temperatures at which optimum generator set performance can be achieved.	Lower red arc indicates engine is too cold to start. Preheating will be needed. Orange arc indicates engine is warm enough to start. No preheating is needed.

Table 2-2. Indicating Instruments (Cont)

INDICATING INSTRUMENT	PURPOSE	USE	INTERPRETATION OF READINGS
			Green arc indicates engine is warm enough to carry a load on generators. Upper red arc represents engine's hot running range.
TACHOMETER	Indicates engine revolution per minute.	Other than normal tachometer readings indicates need for governor adjustments.	Between 800 and 900 RPM is proper engine idling speed. Governed speed should be approximately 2250 RPM at 400 cycles output for hour meter-tachometer indicating instrument. Speeds other than those given above indicate need for governor or throttle linkage adjustments.
ENGINE HOUR METER	Indicates elapsed time of engine use.	Hour meter serves to indicate need for periodic inspection, maintenance, overhaul, and lubrication.	Number of hours shown on ENGINE HOUR METER are compared with Lubrication Diagram (Figure 3-6).
OIL PRESSURE	Indicates pressure of oil in engine.	Indicates normal oil circulation pressures in operation.	Oil pressure should rise to between 20 and 40 psi within 30 seconds after engine cranking is begun. Normal running oil pressure at idle speed is 20 to 40 psi. Normal running oil pressure at governed speed (operating speed) is 40 to 60 psi.
		Lowered oil pressures indicate need for overhaul of engine.	Less than normal oil pressures indicate engine trouble or need for engine overhaul. No oil pressure indicates serious trouble in engine.

Table 2-2. Indicating Instruments (Cont)

INDICATING INSTRUMENT	PURPOSE	USE	INTERPRETATION OF READINGS
FREQUENCY meter		Indicates alternator output frequency.	Indication of other than 400 Hz indicates mal-adjustment of governor or trouble in alternator.

2-3. Preheating System Controls.

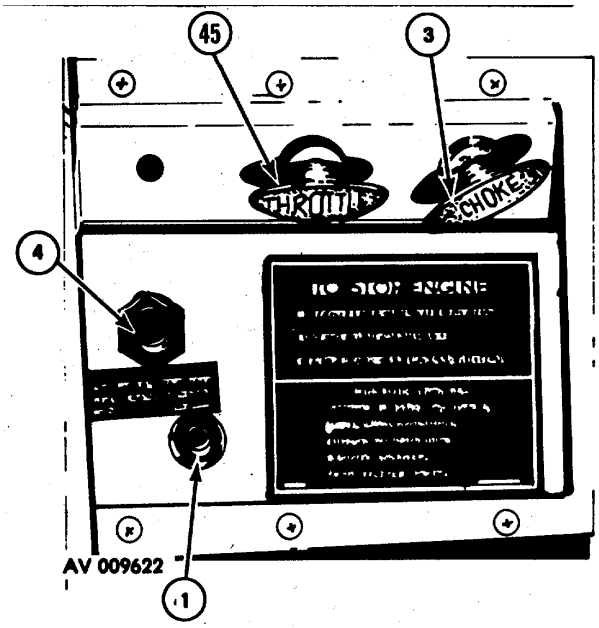
The C-26C engine driven generator set is preheated by an external source.

2-4. Main Heating System Controls.

The main heating system functions entirely from hot air obtained from the engine shroud. (See figure 1-8.) The operation is automatic once the engine is running and the only control is the temperature control which is located aft of the fuel tank in the approximate center of the chassis.

2-5. Engine Starting Procedures.

In view of the fact that the generator sets were designed to operate efficiently in temperatures ranging from -65° F to 160° F (-54° C to 71° C) there are two separate methods of starting. These are discussed in the following paragraphs.



1. Engine Start Oil Pressure Override
2. Throttle
3. Choke
4. Starter

Figure 2-1. Engine Operating Controls

WARNING

When positioning generator set for aircraft engine starting, ensure generator is parked as far away from aircraft as length of power cables will permit. Take generator engine exhaust, wind direction, and aircraft engine exhaust into consideration. Also, position generator so towbar is facing away from aircraft for easy removal in case of fire.

2-6. Prestart Checks.

Prestart checks shall be conducted as follows:

a. Check fuel, engine sump and transmission oil levels, tire inflation, and battery water level.

b. Check front wheels to see that drive is engaged and that parking brake is locked by latching towbar in vertical position. Check that front drive circuit is OFF.

c. Open control panel, ensure all switches are in OFF position, and that circuit breakers are in RESET position. (Panel light may be turned on.)

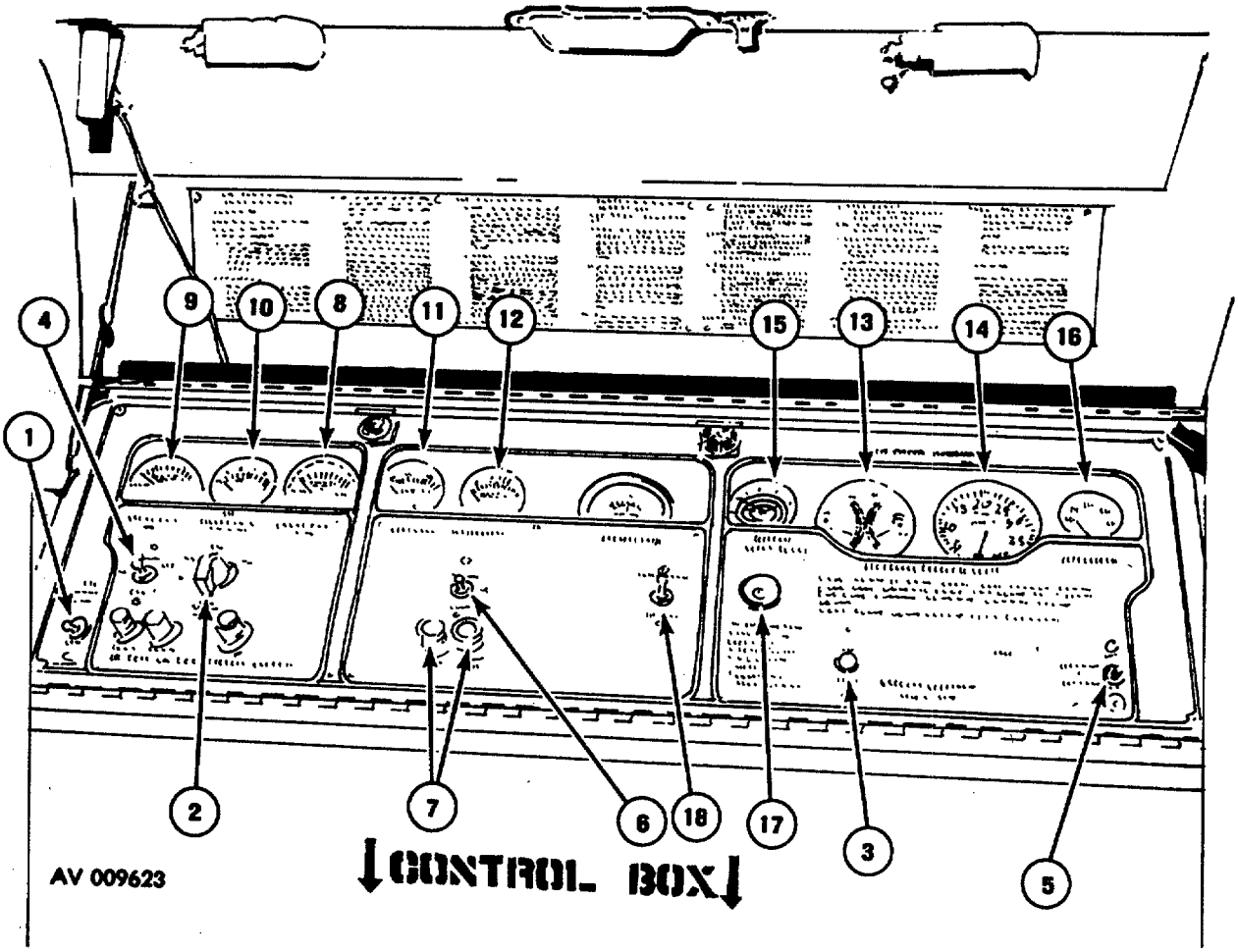
d. Adjust AC ammeter to zero.

e. Check engine choke and throttle for full travel. Return them to closed position.

f. Check that all ammeters are at zero.

g. Ensure all inspection requirements have been performed in accordance with Table 3-1.

h. Accomplish performance checks, paragraph 3-24.



1. PANEL LIGHTS Switch
2. VOLTAGE SELECTOR Switch
3. BAT POWER CIRCUIT BREAKER
4. DC GEN Switch
5. IGNITION AND BATTERY switch
6. AC GEN Switch
7. AC Exciter Circuit Breaker Indicator Lights
8. DC AMMETER GEN 3
9. DC AMMETER GEN 4
10. DC VOLTMETER
11. AC AMMETER
12. AC VOLTMETER
13. Oil and Cylinder Head Temperature Gage
14. Tachometer
15. ENGINE HOUR METER
16. OIL PRESSURE
17. Cooling System Warning Light
18. CABLE CONTROL Switch

Figure 2-2. Instruments and control panel.

2-7. Normal Starting.

WARNING

Operation of this equipment presents a noise hazard to personnel in the area. The noise level exceeds the allowable limits for unprotected personnel; wear ear muffs or fitted earplugs.

a. Place IGNITION AND BATTERY switch in ON position.
b. Pull out throttle one-eighth of full throttle.
c. Use choke as needed to assist start. Use choke sparingly as engine is easily flooded.

d. Press STARTER button until engine starts.

e. Warm up engine at 800 to 900 rpm until engine is running smoothly. Place IGNITION BATTERY switch to OFF position for an instant to determine that switch is operative.

CAUTION

If engine oil pressure does not come up within 30 seconds, stop engine and determine cause.

f. Push manual throttle all the way in. Observe all meters and gages for proper indication. (See figure 2-2.)

g. Load may be applied as soon as oil and temperature gages are operating in the green arc. The DC generators may be used to charge batteries during warmup period.

NOTE

When climatic conditions prevent temperature gages from moving into the green arc, apply load when temperature gages have stabilized. With a load applied, check the carburetor shaft for free operation. This may be done visually. Sticky operation will cause engine to "hunt"

h. For safe operation of generators, check blower indicator light. This light must be off.

2-8 Starting With External Power.

External power may be used to start generator set engine if batteries are weak.

a. Determine that all switches are in the OFF position.

b. Connect 28-volt DC external power source to 28V DC EXTERNAL POWER receptacle on external power panel (figure 1-6).

c. Start engine in accordance with paragraph 2-7. Do not apply load.

d. Place DC GEN switch to ON and disconnect external power source.

e. Load may now be applied.

2-9. Operation of Electrical Systems.

The C-26C generator set electrical output consists of a split-bus, 28-volt direct current and a three-phase, 400-Hz alternating current. Each 28-volt DC output is rated at 500 amperes continuous duty and 600 amperes for five minutes maximum. The AC output is rated at 45 KW, three-phase, continuous duty and 15 KW, single-phase, continuous duty.

2-10. Direct Current Operation.

The C-26C generator set provides two regulated direct current outputs. Each output is generated by a separate generator and is controlled to 500 amperes. The cables with oval plugs (figure 2-3) are used to connect the DC outputs to the aircraft. Operation is obtained as follows:

a. Position AC GEN switch to OFF.

b. Position DC GEN switch to OFF.

c. Connect one or both oval plug power cables to the aircraft as applicable.

d. Position DC GEN switch to ON.

e. After using generator set, position GEN switches to OFF, close engine throttle, remove power cables from aircraft and store cables.

2-11. Alternating Current Operation.

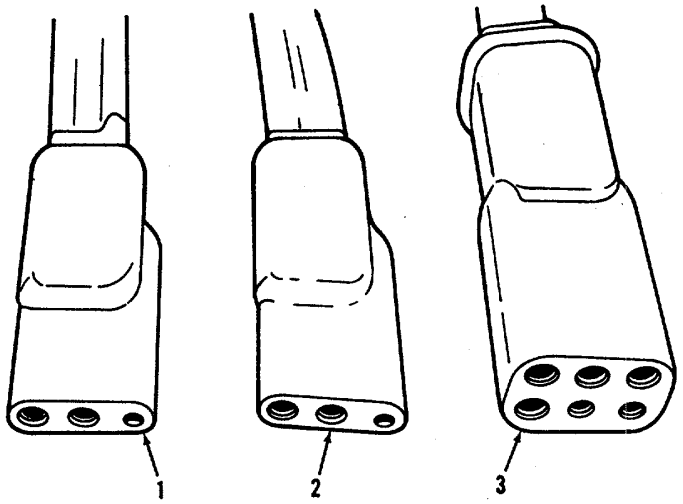
The C-26C 115 AC system consists of a 60 kva, 3-phase, 4-wire, 115 volt alternator. The alternator output is connected to a 6-pin, square plug cable (figure 2-3). AC control selector switch is placed to desired position (AIRCRAFT or GEN) depending on type of aircraft being serviced. Operate the AC system as follows:

WARNING

The 115-volt, AC system can cause severe shock or serious injury to operating personnel. Do not make electrical adjustments except to the voltage regulator while the AC system is in operation.

a. Push throttle all the way in; place DC GEN switch to ON position.

b. Position AC GEN switch to OFF and connect power cable to. aircraft.



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1. 28-Volt dc Power Cable
2. 28-Volt dc Power Cable
3. 115-Volt ac Power Cable

Figure 2-3. C-26C power cables

c. Position AC GEN switch to ON.

d. After using power supply, turn off generator switches, close engine throttle, remove power supply cables from aircraft and store cables.

2-12. Battery Charging.

While the generator set is operating, the batteries may be charged by placing the DC GEN switch in the ON position. A charge rate of less than five amperes indicates that batteries are fully charged.

2-13. Stopping and Securing.

a. Place both GEN switches to OFF.
b. Adjust throttle to permit engine to run three minutes at 800 to 1000 rpm to cool.
c. Place IGNITION and BATTERY switch to OFF position.
d. Push throttle to fully open position.
e. Disconnect and store power cables.
f. Place all switches to off position.
g. Close and latch all access covers and doors.

CAUTION

After engine shut-down, return throttle to full open position and lock.

2-14. Operation of Front Wheel Drive.

The front wheel drive is designed to move the generator set on the aircraft runway or service area. (See figure 1-10.) To operate the front wheel drive, proceed as follows:

a. Start and warm up engine in accordance with paragraph 2-5.
b. Open the engine throttle and turn on dc generators.
c. Ensure front wheel coupling drive handle (figure 1-10) is in engaged position. Engaged position is indicated when the cross-pin is all the way down into the deepest slot.

d. Ensure towbar is in a vertical position.

e. Place front drive circuit breaker (figure 1-10) in ON position.

f. Place towbar switch in the desired position (forward or reverse).

g. Start front wheel drive by lowering towbar from vertical position toward horizontal position. This motion will successively engage speed control microswitch actuators. The first microswitch to be actuated gives low speed, the second gives medium speed.

CAUTION

Do not use the front drive as a means of towing other equipment. Do not tow the generator set with front drive engaged. Do not tow faster than 20 mph.

CAUTION

Turning - Maximum safe speed at 50-foot turning radius: 5 MPH.

NOTE

The front wheel drive will start only in low speed.

h. Decrease speed by raising towbar. Stop front drive by raising towbar to vertical position. The towbar can be latched to top of vertical pivot, which, in turn, locks front wheels.

i. To secure front drive, place front drive circuit breaker in OFF position and disengage coupling handle. (See figure 1-10.)

CHAPTER 3

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. PREPARATION FOR INSTALLATION, STORAGE AND SHIPMENT

3-1. Preparation for Installation.

Preparation for installation consists of unpacking, inspecting and cleaning the generator set.

3-2. Unpacking.

The C-26C generator set is enclosed in a protective moisture proof covering inside a wooden crate. To unpack generator set, perform the following procedures:

a. Remove bolts around bottom of crate and lift off top.
b. Inspect humidity indicator for presence of moisture.

NOTE

If humidity indicator indicates presence of moisture, inspect entire generator set for rust or corrosion.

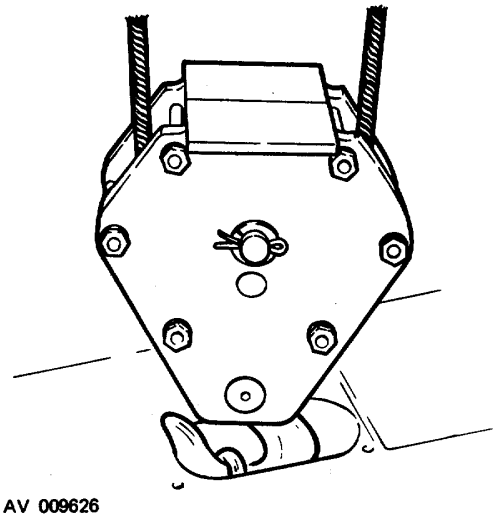


Figure 3-1. Hoisting

c. Remove protective covering.
d. Remove bolts holding generator set to base of crate.
e. Open access door on top of forward enclosure of generator set for access to hoisting eye.
f. Hoist generator set high enough to remove bottom of crate. (See figure 3-1.)
g. Lower set to floor.

NOTE

In the event a hoist is not available and a jack is to be used, care should be taken in positioning the jack. Do not position jack under oil drain.

3-3. Initial Inspection.

Inspect unpackaged generator set as follows:

a. Check tires for proper inflation (15 psi front, 20 psi rear).
b. Remove engine hood and wrapper sheets.
c. Ensure electrical connectors, fuel lines, ducts, and linkages are secure.
d. Check for loose items or material of any kind on the engine or floor of the compartment.
e. Remove tape from air intake and engine exhaust.
f. Open control box and power distribution compartment doors.

g. Ensure all control box and power distribution electrical connections and cooling ducts are secure.

h. Open all other generator access doors and check that all electrical connections are secure.

i. Ensure battery compartment cooling ducts are secure.

j. On front of unit, install connector plug to make electrical connection to front wheel drive. (See figure 1-10.)

3-4. Rust Preventive Removal.

NOTE

If humidity indicator indicates the presence of moisture, inspect the entire set for rust or corrosion.

a. Remove drain plugs from engine oil sump and gearbox sump and allow corrosion preventive compound to drain out. (See figures 3-2 and 3-3.)

b. Remove dehydrator plugs from engine.

CAUTION

Damage to engine can result if crankshaft is turned before Protex Dehydrator plugs are removed and corrosion preventive compound is drained from cylinders.

c. Reinstall drain plugs in engine oil sump and gearbox sump.

3-5. Initial Servicing.

After the generator set has been unpacked the following procedures must be accomplished to prepare the generator set for operation.

a. Install spark plugs in Power Packette Engine and tighten to 300-360 inch-pounds.

b. Check oil level in front drive transmission (figure 3-4).

c. Ensure all switches on generator set, including front drive safety switch, are in OFF position.

d. Fill engine crankcase with 12 quarts of oil and generator box with 2 quarts of oil. Use (item 5, table 1-2), if temperature is above 60° F. If temperature is between 20 and 60° F use (item 6, table 1-2). Temperature below 20° F use (item 7, table 1-2).

e. Remove carburetor air filter. Clean air filter screen (DO NOT OIL). Replace filter.

WARNING

Provide a metal-to-metal contact between gasoline container and tank. This will prevent a spark from being generated as gasoline flows over the metal surfaces. No smoking.

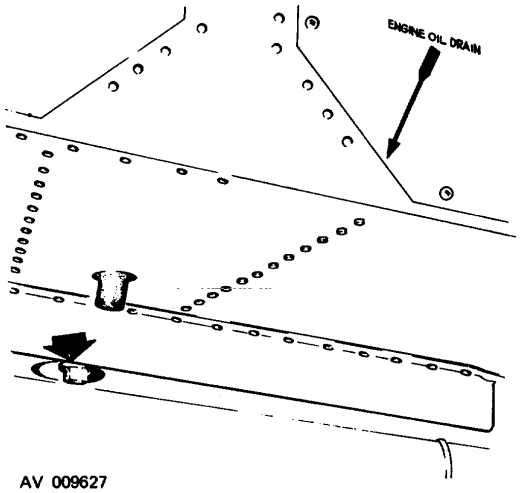


Figure 3-2. Engine oil drain

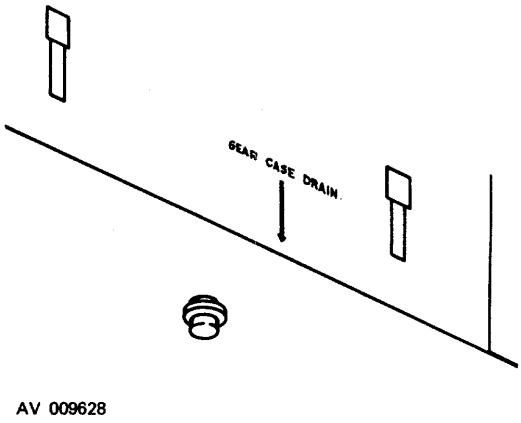


Figure 3-3. Gear case drain

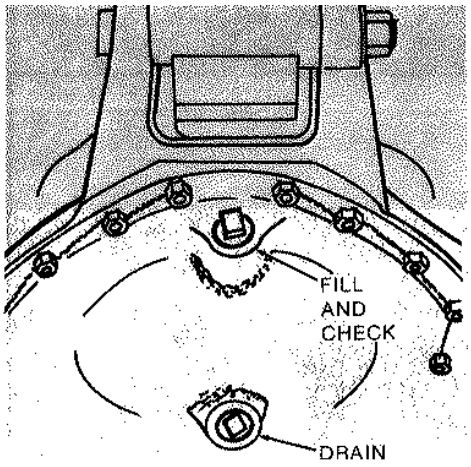


Figure 3-4. Front drive transmission

f. Fill engine fuel tank with 50 gallons of fuel. Select a suitable available fuel from table 1-2.
g. Check engine controls for full travel.
h. Install spark plug in heater blower engine.
i. Fill batteries with electrolyte of 1.275 specific gravity (item 14, table 1-2) and give freshening charge.
j. Verify that all generator switches are in OFF position and that battery vent plugs are open.
k. Connect vent hoses and install quick-disconnect.
l. Adjust all ammeters to zero.

CAUTION

Do not zero voltmeters.

3-6. Preparation for Storage.

a. Inspect generator set to determine its condition. Correct any deficiencies prior to placement of generator set into storage.

b. Accomplish preservation procedures as specified in paragraph 3-7b.

c. The following precautions shall be observed in the storage area:

(1) Attach a record tag, containing description of preservation procedures, to generator set.

(2) If equipment is not put into packing case, ensure wheels are chocked to prevent movement on unlevel surfaces.

(3) Do not place generator set in storage where tires come in contact with surfaces soaked with oil and grease.

(4) Do not place equipment under trees unless tactical situation requires concealment.

(5) If possible, store generator set in a dry storage area.

3-7. Preparation for Shipment.

a. Inspect generator set to determine its condition. Correct any deficiencies prior to shipment.

b. The generator set being prepared for shipment shall be preserved as follows:

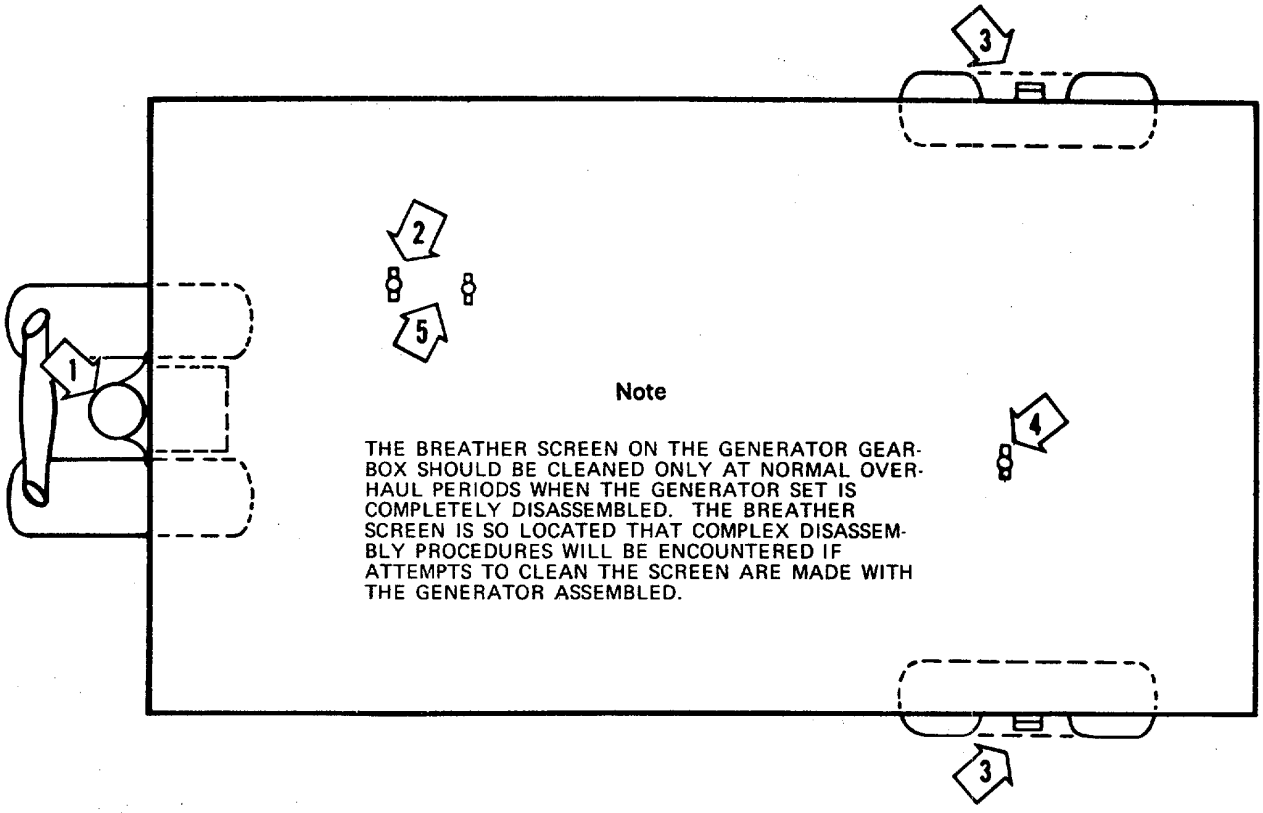
(1) Thoroughly clean all surfaces with drycleaning solvent (item 1, table 1-2), and wash with soap and water. Prevent damage to electrical circuits during the cleaning operation. After cleaning and before applying preservatives or paint, dry all surfaces and parts thoroughly.

(2) After all surfaces are clean and free of rust and corrosion, repaint surfaces as required. This includes all surfaces which can be effectively protected by paint without interference with the operation of the generator set. (Refer to TM 55-1500-204-25/1.)

(3) Drain fuel tank by removing drain plug and filter plug from sump fitting. Operate the engine until the engine stops. This will remove all fuel vapor from carburetor and crankcase. Open drain cock on crankcase and allow excess fuel to drain out. Remove spark plug and rotate starter pulley two or three times. Close crankcase drain cock and replace fuel tank drain, filter plug, and spark plug. Allow engine to cool.

(4) Remove battery cables and coat with technical petrolatum (item 2, table 1-2). Wrap terminals with grease-proof barrier material (item 3, table 1-2), and secure with pressure sensitive tape (item 4, table 1-2). Secure cable to side of battery box with pressure sensitive tape to prevent scuffing.

(5) If generator set is shipped and wheels are not removed, tires must be inflated to correct pressure.



INDEX NO.	ITEM	LUBRICANT TO USE	METHOD OF APPLICATION
1	Front wheel transmission.	MIL-L-2105 Grade 80 when temperature is above -29° C (-20° F) or MIL-L-10324 when temperature is below -29° C (-20° F).	Pump.
2	Generator gear.	Same as for engine	Same as for engine.
3	Rear wheels.	MIL-G-25760.	Pack by hand.
4	Engine.	Use Specification MIL-L-2104B, SAE 50, if temperature is above 60° F, if temperature is between 20 and 60° F use SAE 30, temperature below 20° F use SAE 10.	Oil filler hose or spouted can or jar.
5	Engine starting motor.	MIL-L-2104A.	Disassemble, clean and oil wicks.

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Figure 3-5. Lubrication diagram

(6) Protect equipment shipped that is subject to rain or dust with temporary seals or covers. Cover openings such as exhaust pipes, breather caps, vents, and generators. Place a sealing gasket between exhaust flange of cylinder and. manifold assembly, and between carburetor and timer bracket. The other gaskets found at these locations shall remain in place.

(7) Completely, lubricate generator set in accordance with figure 3-5 before packing for shipment.

(8) Place cleats between generator frame and dolly frame. The cleats relieve pressure off four vibration mounts. Place generator set in packing case. Oil any tools and wrap with greaseproof barrier material (item 3, table 1-2), and secure the barrier material with pressure sensitive tape (item 4, table 1-2). Place tools inside of packing case and secure case.

3-8. Power Cable Requirements.

Three power cables are stowed on the generator set for general purpose use. Special power cables of longer length are needed for weapons loading, refueling, and defueling operations.

3-9. General Purpose Power Cables.

General purpose power cables are those stowed on the generator set and are used under normal conditions to supply external power to aircraft for starting, checkout and maintenance. Power cables stowed on the generator set consist of the following: (See figure 2-4.)

a. One ac power cable, part number AN3430-5 or AN3430-7.

NOTE

Under conditions where power requirements are not critical and do not conflict with safety regulations, 60 foot cable, part No. AN3430-7, may be used. Voltage regulators may require adjustment to compensate for voltage drop at cable end. When the AN3430-7 cable is used the 30 foot AN3430-5 cable will be removed and not stowed on the generator set.

b. Two dc power cables, part number AN2551E30, 30 feet long.

3-10. Weapons Loading Power Cables.

During weapons loading 120 feet of cable may be used when noise. suppression is desirable. This configuration can be obtained by use of two ac cables size 4AWG, part No. MS24208-1, or two dc cables size 2 AWG, part No. C108, with junction box, part No. SE1076. Voltage regulators may require adjustment to compensate for voltage drop at cable end.

NOTE

Electrical power utilized under these configurations will be limited to essential requirements for weapons loading and other special purpose use. Power cable will not be stowed on the generator set.

3-11. Refueling and Defueling Power Cables.

To reduce fire hazards during single point refueling and defueling operations, a 60 foot ac cable size 4 AWG, part No. MS24208-1, or dc cable size 2 AWG, part No. C108 may be used. These cables are to be used to energize the electrical circuitry of the aircraft fuel system for operation of booster pumps, valves, and fueling panels. These cables were not intended for energizing the electrical system throughout the aircraft. Voltage regulators may require adjustment to compensate for voltage drop at cable end. Power is not to exceed the following requirements per cable.

AC balance 3 phase load	150 amperes
AC single phase load	75 amperes
DC load	150 amperes

NOTE

Electrical power utilized under this configuration will be limited to single point fueling or defueling operations only. The power cables will not be stowed on the generator set.

Section II. INSTALLATION

(Not applicable)

Section III. INSPECTIONS AND SERVICING

3-12. Inspections.

Table 3-1, Inspection Requirements, gives in tabular form the inspections required to be performed by Organizational Level Maintenance. The table lists the major assemblies to be inspected, the requirements of the inspections, and the frequency of the inspections. The inspections and intervals at which they are to be performed are as follows:

NOTE

All inspections required at each operation shall be reaccomplished during daily, intermediate, and periodic inspections. All daily inspections shall be reaccomplished during intermediate and periodic inspections. All intermediate inspections shall be reaccomplished during periodic inspections.

a. Each Operation. Every time the generator set is operated the inspections noted in this column shall be performed.

b. Daily Inspection. The daily inspection is accomplished following the last operation of the day, or preceding the next day's operation. Daily inspection requirements consist of visual examination and operational checks to ensure that the equipment can safely and efficiently perform its assigned mission.

c. Intermediate Inspection. The intermediate inspection is a combination of daily and intermediate inspection requirements for checking equipment that requires verification of normal operation at frequencies between the daily and periodic inspections. The intermediate inspection is accomplished every 25 to 30 hours of operation.

d. Periodic Inspection. The periodic inspection is a thorough and searching inspection of those items subject to failure or discrepancy. The periodic inspection is accomplished every 100 to 120 hours of operation.

e. Special Inspection. The special inspection is a series of tests to determine cause of failure. The special inspection is accomplished when battery failure occurs.

3-13. Battery System Test.

a. Check electrolyte level, add if low. Use item 14, table 1-2.
b. Check specific gravity, should be 1.275.
c. Check for 24-volt potential.
d. Start generator set, use external power if necessary.
e. Disconnect external power if used.
f. Disconnect positive cable from both batteries.

CAUTION

Do not allow battery cables to make contact with chassis or chassis wiring.

g. Check for 28-volt potential at positive battery cable.
h. Reconnect battery cables and secure generator set.

3-14. Servicing.

Servicing of the generator set should be accomplished daily or as specified in each of the following steps whichever occurs first.

a. Check crankcase oil level and add oil as required to maintain proper level daily or every five hours of operation. Use item 5, table 1-2, if temperature is above 60° F. If temperature is between 20° and 60° F, use item 6, table 1-2. If temperature is below 20° F use item 7, table 1-2.

b. Add gasoline, as required, while operating and check level daily. Use a suitable available fuel selected from Table 1-2.

c. Maintain tire pressure at 20 pounds in rear tires and 15 pounds in front tires. Check pressure daily.

d. Maintain battery electrolyte at proper level. Check specific gravity daily, it should be 1.275.

e. If not in storage and not being used regularly. the generator set should be started daily and allowed to run for a short period of time to charge the batteries and keep the engine lubricated.

Table 3-1. Inspection Requirements

ITEM	MAJOR ASSEMBLY, ITEM, OR AREA	REQUIREMENT
	EACH OPERATION INSPECTION	
1.	Power Distribution Compartment	Inspect Power Distribution Panel for evidence of arcing or overheating and for proper operation.
		Inspect power cables for chafing of insulation and evidence of overheating.
		Inspect ac current limiter for proper operation.
2.	Fuel System	Inspect cap assembly for security of attachment.
3.	Control Box Assembly	Check control box equipment for proper operation.
4.	External Power Box Assembly	Inspect switches and lamps for operation.
	DAILY INSPECTION	
1.	Rear Wheel Assembly	Check tires and tubes for correct pressure, cuts bruises, breaks, and excessive wear.
2.	Front Wheel Drive Assembly	Inspect tires and tubes for correct pressure, cuts, bruises, breaks and excessive wear.
		Inspect differential for oil leaks.
3.	Fuel System	Inspect fuel lines, sump, filter, gaskets, and associated hardware for leaks and security of attachment.
4.	Battery System	Inspect battery for full charge, check electrolyte level and specific gravity.
5.	Engine Assembly	Inspect oil drain for leakage.
	INTERMEDIATE INSPECTION	
1.	Dolly Assembly	Inspect battery holder for corrosion and security of attachment.
		Inspect screen assemblies for reed of cleaning.
2.	Power Distribution Compartment	Inspect regulator control shunt and meter shunts for presence of corrosion, oil, or dirt.
3.	Front Wheel Drive Assembly	Inspect dc drive motor for need of cleaning and evidence of overheating.

Table 3-1. Inspection Requirements (Cont)

ITEM	MAJOR ASSEMBLY, ITEM, OR AREA	REQUIREMENT
4.	Cable Compartment	Inspect electrical connectors, harness assemblies and resistor wires for chafing of insulation and overheating.
5.	Fuel System	Inspect gage assembly for proper operation.
6.	Battery System	Inspect covers, tiedown rods, connector plugs, tube assemblies, hoses, and clamps for security of installation and for corrosion.
		Inspect rectifier for proper operation and for evidence of overheating.
7.	Engine Assembly	Inspect dc generators, ac alternators, fuel cut-off solenoid valve and relays for proper operation and evidence of overheating.
		Inspect governor arm assembly and rod assembly for proper adjustment and security of installation.
		Inspect carburetor air cleaner for need of cleaning.
		Check engine controls for full travel and correct operation.
8.	Control Box Assembly	Inspect control box equipment for evidence of overheating or arcing.
9.	Engine Chassis and Harness Assembly	Inspect harness and cable assemblies for chafing of insulation and overheating.
10.	Cable Compartment	Inspect harness and cable assemblies for chafing of insulation and evidence of overheating.
	PERIODIC INSPECTION	
1.	Dolly Assembly	Inspect doors, hinge pins and latch assemblies for proper operation and lubrication.
		Inspect manifold assemblies for cracks, security of attachment and condition of gaskets.
		Inspect engine mounts and brackets for security of installation.
2.	Upper Structure Assembly	Inspect cover assemblies, doors, miscellaneous hardware and switches for proper operation and security of attachment.

Table 3-1. Inspection Requirements (Cont)

ITEM	MAJOR ASSEMBLY, ITEM, OR AREA	REQUIREMENT
3.	Power Distribution Compartment	Inspect miscellaneous hardware for security of attachment.
4.	Upper Aft Hood Assembly	Inspect door assemblies, latches, hinge pins and miscellaneous hardware for proper operation and security of attachment.
		Inspect muffler for leaks and extreme oxidation, inspect muffler screws for security of attachment.
5.	Rear Wheel Assembly	Inspect spring and shackle assembly and wheel for security of attachment.
		Inspect bearings, race, seal and studs for proper lubrication and evidence of lubrication starvation or over lubrication.
		Inspect axle for bends, breaks, or cracks.
6.	Front Wheel Drive Assembly	Inspect shaft assembly for evidence of excessive wear.
		Inspect tow bar fitting, end tube, eye and toggle switch for any 'distortion and for proper operation.
		Inspect clamps, bolts, washers, springs, pins, and covers for security of installation.
7.	Fuel System	Inspect tank assembly straps, turnbuckles, clevis, pins, and rod ends for security of attachment.
8.	Engine Assembly	Inspect mounting bolts, bushings and retainers, fan assembly, and cowling air duct for security of installation.
		Inspect spark plugs for broken or cracked porcelain.
		Inspect gaskets, hoses, ducts and clamps for leakage and deterioration.
		Inspect magneto for evidence of overheating and the breaker points for pitting and correct clearance.
		Inspect starter and solenoid for evidence of overheating and brushes for excessive wear.

Table 3-1. Inspection Requirements (Cont)

ITEM	MAJOR ASSEMBLY, ITEM, OR AREA	REQUIREMENT
		Inspect tach generator for proper operation and evidence of overheating.
9.	Winterization Assembly	Inspect hardware, ducts, grommets, and brackets for security of installation.
		Inspect solenoids and valves for proper operation.
10.	Control Box Assembly	Inspect door assembly, hinge pins, extrusions, seals, screws, washers, fasteners, and decals for security of attachment.
11.	External Power Box Assembly	Inspect receptacles and hardware for security of attachment.
12.	Engine Chassis and Harness Assembly	Inspect electrical connectors, clamps, grommets, and associated hardware for security of attachment.
13.	Cable Compartment	Inspect electrical connectors and ammeter shunts for security of attachment.
	SPECIAL INSPECTION	
1.	Battery System	Test batteries for proper operation (see paragraph 3-13).
		Test rectifier for proper operation.

Section IV. PREVENTIVE MAINTENANCE

3-15. Cleaning.

Regular cleaning of the generator set must be accomplished to ascertain continual normal operation. Cleaning methods for various types of parts are as follows:

a. Wash rubber parts and cable insulation with soap and water. Rinse with clear water and allow to dry.

b. Clean steel parts with solvent (item 15, table 1-2), and a brush. Allow to dry and coat with a thin oil to prevent corrosion.

c. Clean non-ferrous materials with a clean rag or brush dipped in solvent.

d. Clean dirt and dust out of interiors, corners, crevices and surfaces of chassis and component boxes using cloth dampened with solvent (item I, table 1-2).

e. Clean corroded electrical terminals with sandpaper (item 16, table 1-2). Do not use emery cloth.

3-16. Lubrication.

Lubrication information is given in figure 3-6.

3-17. Extreme Environmental Maintenance.

Table 3-2 gives extreme environmental maintenance.

Table 3-2. Service Maintenance

SERVICE	FREQUENCY NORMAL ENVIRONMENT	EXTREME ENVIRONMENT
Change oil in engine crankcase.	400 hrs.	4 months for Low Utilization
Change oil in drive gearbox.	400 hrs.	200 hrs.
Change oil in front drive.	6 months	2 months
Clean oil filter in engine crankcase.	400 hrs.	200 hrs.
Clean carburetor air filter screen (do not oil).	200 hrs.	As Required
Grease rear wheels.	6 months	3 months or As Required
Check front drive support mounting, bracket and plate for security, and nuts for proper torque of 350 to 375 inch-pounds.	400 hrs.	

3-18. Service Maintenance.
The generator set must be serviced regularly to prevent breakdown. The services which must be performed and the frequency of each is given in table 3-2. Step-by-step procedures for each service are given in the following paragraphs.

3-19. Engine Oil and Filter.
a. Place suitable 12 quart refuse container under crankcase drain plug. See figure 3-2 for drain plug location.
b. Allow crankcase to drain completely.
c. If replacement of oil filter is required, accomplish the following:
(1) Remove oil filter assembly.
(2) Remove bolt from end of body and separate body from tube.
(3) Remove and replace filter element.
(4) Reassemble and install filter assembly.
d. Install crankcase drain plug.
e. Remove oil filler cap and fill with 12 quarts of oil. Use (item 5, table 1-2) if temperature is above 60° F, (item 6, table 1-2) between 20° and 60° F, (item 7, table 1-2) below 20° F. See figure 1-7 for location of oil filler cap.
f. Install oil filler cap.

3-20. Gear Case.
a. Place suitable two quart refuse container under gear case drain plug. See figure 3-3 for location of drain plug.
b. Remove gear case drain plug and allow gear case to drain completely.
c. Install gear case drain plug.
d. Remove gear case oil filler cap and fill with two quarts of oil. Use (item 5, table 1-2) if temperature is above 60° F, (item 6, table 1-2) between 20° and 60° F, (item 7, table 1-2) below 20° F. See figure 1-3 for location of gear case filler plug.
e. Install gear case filler plug.

3-21. Front Drive Transmission.
a. Place suitable two quart refuse container under transmission drain plug. See figure 3-4 for location of drain plug.

b. Remove drain plug and allow transmission to drain completely.
c. Install drain plug.
d. Remove transmission filler plug and fill with two quarts of oil (item 17, table 1-2). See figure 3-4 for location of transmission filler plug.

3-22. Carburetor Air Filter Screen.
a. Remove carburetor air filter screen. See figure 1-7 for location of filter screen.
b. Clean in warm water and detergent solution.
c. Rinse in clear water and allow to dry. DO NOT OIL.
d. Install carburetor air filter screen.

3-23. Rear Wheels.
a. Jack generator set up until rear wheel to be serviced clears the ground.
b. Remove grease cap (33, figure 4-7).
c. Remove cotter pin (22), hub nut (23), and washer (21).
d. Remove wheel and hub assembly.
e. Remove outer bearing (25).
f. Remove seal (27) and inner bearing (26).
g. Hand pack bearings (25 and 26) with grease (item 19, table 1-2).
h. Install bearings (25 and 26) and seal (27).
i. Install wheel and hub assembly on axle.
j. Install washer (21) and nut (23); tighten nut (23) until there is no side play in wheel but it still rotates freely.
k. Back off nut (23) to nearest castellation and install cotter pin (22).
l. Install grease cap (33) and remove jack.

Section V. OPERATIONAL CHECKOUT

3-24. Performance Checks.
Table 3-3 contains the procedures for performance checks with normal indication, abnormal and corrective action to be taken. If during the performance checks an abnormal indication is observed, stop and secure the generator, then proceed with the corrective action.

3-25. Initial Control Positions.
Ensure the following switches and circuit breakers are positioned as stated.

a. AC GEN switch.	OFF
b. DC GEN switch.	OFF
c. VOLTAGE SELECTOR switch.	OFF
d. Panel LIGHTS switch.	OFF
e. IGNITION and BATTERY switch.	OFF
f. Front drive circuit breaker.	OFF
g. Convenience outlets circuit breaker.	PULL
h. BATTERY POWER circuit breaker.	PRESS
i. Blower motor circuit breaker.	PRESS

3-26. Troubleshooting Data.
a. The troubleshooting data provided here is keyed directly to the performance checks and is limited to determining the corrective action required for the specific abnormal indications listed in table 3-3.
b. The troubleshooting data provided in the following table 3-4 establishes a means for locating troubles in all areas of the C-26C generator. This table is divided into six categories: (1) engine and accessories, (2) engine instruments, (3) dc generator controls and instruments, (4) ac generator controls and instruments, (5) dc generators, (6) front drive systems.

3-27. Cooling System Warning Lamp Fails To Light.
a. Check bulb; replace if burned out.
b. Check for 28 volts from batteries; if 28 volts is not present, service batteries. Replace batteries if necessary (higher level maintenance function).
c. Check continuity through low air pressure switch; if open, replace switch (higher level maintenance function).

Table 2-2. Indicating Instruments (Cont)

STEP	ACTION	NORMAL INDICATION	ABNORMAL INDICATION	CORRECTIVE ACTION
1.	Position IGNITION and BATTERY switch to ON.	Cooling system warning lamp lights.	Warning lamp does not light.	See paragraph 3-27.
2.	Pull out throttle one-eighth full; use choke as needed; press starter button.	Engine starts.	Engine does not start.	See paragraph 3-28.
3.	Position IGNITION and BATTERY switch to OFF momentarily then back to ON.	Engine falters.	Engine does not falter.	Replace switch or repair wiring. (Higher level maintenance function.)
4.	Pull throttle all the way out.	Engine idles at 800 to 900 rpm.	Engine does not idle at 800 to 900 rpm.	Adjust carburetor. (Higher level maintenance function.)
		Oil pressure reads 20 to 50 psi.	Oil pressure reads below 20 psi.	Add oil and check for leak.
5.	Push throttle all the way in.	Governed speed should be approximately 2250 RPM at 400 cycles output for hour meter-tachometer indicating instrument.	Engine "hunts" or does not run at correct rpm.	Adjust governor, (Higher level maintenance function.)
		Frequency meter indicates 400 Hz.	Frequency meter indicates other than 400 Hz.	Replace alternator or frequency meter. (Higher level maintenance function.)
6.	Position DC GEN switch to ON.	DC AMMETER GEN 3 indicates zero amperes.	DC AMMETER GEN 3 indicates current flow.	Repair shorted circuit.
		DC AMMETER GEN 4 indicates slightly more than 100 amperes.	DC AMMETER GEN 3 indicates less than 100 amperes.	Repair open blower motor circuit.
		NOTE		
	The amperage indicated for generator NO. 4 is due to the 100 amperes used by the blower motor plus any current being used to recharge the batteries.			
7.	Position and hold AC GEN switch to RESET.	AC VOLTMETER indicates 115 volts.	AC VOLTMETER in-, dicates less than 115 volts.	Adjust voltage regulator. (Higher level maintenance function.)
8.	Position AC GEN switch to ON.	FREQUENCY meter indicates 400 Hz.	FREQUENCY meter does not indicate 400 Hz.	Replace FREQUENCY meter. (Higher level maintenance function.)

Table 3-3. Performance Checks (Cont)

STEP	ACTION	NORMAL INDICATION	ABNORMAL INDICATION	CORRECTIVE ACTION
9.	Position panel LIGHTS switch to ON.	Panel lamps light. light.	Panel lamps do not	Replace bulbs.
10.	Perform steps of paragraph 2-13.	Drive motor runs.	Drive motor does not run.	Replace switch or drive motor. (Higher level maintenance function.)
		Front wheel drive propels generator set.	Front wheel drive does not propel generator set. function.)	Replace motor drive coupling. (Higher level maintenance
		Generator set moves smoothly.	Rear wheels skid or wobble.	See paragraph 3-29.

3-28. Engine Does Not Start.

a. Check carburetor for presence of fuel If there is no fuel in carburetor service fuel system.
b. If fuel is present service ignition system.

3-29. Rear Wheels Skid or Wobble.

a. Jack generator set up to clear rear wheels from ground.
b. Remove grease cap (33, figure 4-7).
c. Remove cotter pin (22).
d. Adjust hub nut (23) in or out as required to allow wheel to turn easily but without side play.
e. Back off on hub nut to nearest castillation and install cotter pin.
f. Install grease cap and lower generator set.

Section VI. REPAIR AND REPLACEMENT OF AUTHORIZED PARTS

3-30. Removal.

WARNING

Secure generator prior to removing any parts, ensure all switches are in the OFF position.

3-31. Tow Bar Toggle Switch.

a. Remove screws (154, figure 48) and washers (155) securing switch cover (153) and switch (151) to tow bar eye (131).
b. Pull switch and cover assembly out far enough for access to switch terminals.
c. Disconnect and tag three wires from switch terminals.
d. Remove screws (152) and washers securing switch (151) switch cover (153).

3-32. Tow Bar Eye.

a. Remove toggle switch. Refer to paragraph 3-31.
b. Remove nuts (134), washers (133) and pins (132).

3-33. Tow Bar End Fitting.

a. Remove nuts (148, figure 4-8) and washers (147) from return springs (146 and 149).

b. Remove nuts (141), washers (140) and pins (139).

c. Remove tow bar tube (138) from tow bar end fitting (142).

d. Remove nut (130), washer (129) and bolt (128).

e. Remove tow bar end fitting (142).

3-34. Replacement.

3-35. Tow Bar End Fitting.

a. Attach tow bar end fitting (142, figure 4-8) using bolt (128), washer (129) and nut (130).

b. Insert return springs (146 and 149) into holes in tow bar end fitting and secure with washers (147) and nuts (148).

c. Insert tow bar (138) into tow bar end fitting and secure with pins (139), washers (140) and nuts (141).

3-36. Tow Bar Eye.

a. Place tow bar eye (131) on tow bar (138).

b. Secure with pins (132), washers (133) and nuts (134).

3-37 Tow Bar Toggle Switch.

a. Attach switch (151) to switch cover (153) using screws (152) and washers.

b. Attach wires in tow bar eye to switch terminals.

c. Secure switch and cover assembly to tow bar eye (131) using screws (154) and washers (155).

d. Perform operational check of front wheel drive.

3-38. Fuel Tank Assembly Turnbuckles, Rod Ends, Clevis, and Pins.

Refer to paragraph 4-31b. for repair and replacement.

3-39. Control Box Assembly Door Assembly and Hinge Pins.

Refer to paragraph 4-44b for repair and replacement.

Table 3-4. Trouble Shooting Chart.

STEP	*TROUBLE*	*PROBABLE CAUSE*	*REMEDY*
		Engine and Accessories (see Fig. 1-7)	
1	Failure to start with starter operating.	Throttle not open enough	Check throttle setting. It shouldbe 1/8 open.
		Under priming	Open and close throttle 2 or 3 times.
		Flooding.	Move throttle to STOP position, choke to OFF position. Press starter for 5 to 10 seconds.
		No fuel to engine.	Check fuel level in tank. Clean fuel strainer; check fuel flow at carburetor; check operation of pump; check fuel shutoff solenoids.
		Water in carburetor.	Drain carburetor and fuel tank.
		Defective ignition cable.	Check ignition system. Replace defective wires.
		Defective quadrant control switch or defective ignition switch.	Check switch to see that magneto is not grounded when throttle is in START-IDLE position or ON position.
		Magneto.	Clean points, check timing, sparkat spark plugs. Check condenser.
		Engine too hot.	Allow engine to cool before trying to start.
		Engine failure.	Check oil strainer for metal particles. If present, engine must be overhauled.
		Magneto grounded through oil pressure switch.	Repair or replace oil pressure switch (prior to AF60-303).
2	Failure of starter to turn engine.	Batteries discharged	Check battery voltage. If discharged, start by external power or manually.
		Defective starter, wiring, or switch.	Check supply of current to starter solenoid. Check for loose connec-tions, defective wiring, and corroded terminals.
		Defective starter solenoid.	Replace starter solenoid.
		Defective starter drive.	Replace starter.
		Starter burned out.	Replace starter.
		Defective fly wheel ring gear.	Replace unit.
3	Erratic starter operation.	Low batteries.	Check batteries. If low, start engine with external power.
		Loose or broken connections.	Clean terminals. Replace defective parts. Tighten all comections.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Engine and Accessories (see Fig. 1-7) (cont)	
3		Dirty brushes or commutator	Clean starter.
(cont)		Shorted armature. Worn brushes.	Replace Starter. Replace brushes if shorter than 3/8 inch.
4	Failure of engine to idle properly.	Incorrect throttle adjustment.	Adjust throttle or carburetor to engine idle speed of 700-900 rpm.
		Incorrect idle jet adjustment.	Adjust idle jet adjustment on carburetor.
		Lack of fuel	Clean fuel pump strainer. Check pump operation.
		Faulty ignition.	Check wires and terminals.
		Magneto.	Clean points, check timing, connections, switch, and condenser.
		Incorrect spark plug gap.	Check spark plug gap with gage at 0.035.
		Incorrect governor adjustment.	Adjust governor.
		Leak in induction system.	Check air intake pipe and connections for tightness.
		Low cylinder compression.	Check compression of cylinders. If not approximately equal, overhaul is needed.
5	Low power and uneven running.	Mixture too rich; indicated by sluggishness, red exhaust flame, black smoke from exhaust.	Check carburetor adjustment, float-actuated needle valve. Check choke linkage.
		Mixture too lean; indicated by overheating or backfiring.	Check fuel lines for dirt or restrictions. Check carburetor adjustment.
		Incorrect grade of fuel.	Drain tank and refill with recommended grade.
		Air cleaner obstructed.	Clean air cleaner and refill with same grade of oil as used in engine.
		Incorrect governor adjustment.	Adjust governor.
		Engine too hot.	See step 12.
		Defective ignition wire.	Check wires and replace defective ones.
		Magneto.	Clean points; check timing and condenser.
		Defective spark plugs.	Clean and adjust, or replace spark plugs.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Engine and Accessories (see Fig. 1-7) (cont)	
5 (cont)		Defective spark plug terminal connectors.	Replace defective connectors.
		Leaks in induction system.	Tighten all connections; replace defective parts.
		Incorrect valve clearance.	Readjust valve clearance to 0.010 inch cold.
		Worn cylinders and piston rings.	Check cylinder compression. If very low or uneven pressures are found, overhaul is needed.
6	Engine stops suddenly during normal operation.	Fuel supply exhausted.	Refill tank with recommended grade of fuel.
		Fuel system stoppage.	Check shutoff valve, drain carburetor, clean fuel system, check fuel pump operation and connections.
		Fuel tank air vent line clogged.	Check air vent; remove obstruction from line.
		Carburetor butterfly valve stuck.	Check choke, throttle and governor linkage for loose parts.
		Ignition wire failure.	Check ignition system for broken, grounded, or disconnected wires.
		Magneto grounded.	Check switch and wiring for accidental grounding. Check oil pressure switch.
		Defective magneto.	Replace if defective.
		Internal engine failure	Inspect oil screen for metal particles. If present, complete overhaul is needed.
		Oil pressure microswitch.	Check for low pressure switch operation: loose, broken, or grounded wires. Replace switch if defective.
7	Failure to develop full power.	Throttle lever out of adjustment.	Adjust throttle lever.
		Choke lever out of adjustment.	Adjust choke lever.
		Fuel pump not operating properly.	Check fuel pump operation. Replace if defective.
		Improper fuel.	Drain fuel tank and refill with recommended grade.
		Fuel shutoff valve not fully open.	Check position of fuel valve.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Engine and Accessories (see Fig. 1-7) (cont)	
7 (cont)		Restriction in carburetor air intake.	Clean air filter and refill with same grade of oil being used in engine. Examine air cleaner and air intake pipes.
		Faulty ignition.	Tighten all connections and check timing and points of magneto.
		Spark plugs.	Clean and adjust or replace spark plugs.
		Engine too hot.	See step 12.
		Improper governor adjustment.	Check governor for proper adjustment.
		Leaks in induction system.	Tighten loose connections; replace defective parts.
		Cylinders and piston rings.	Test compression. If excessive wear is indicated, overhaul is necessary.
		Scarred or damaged flyweights.	Replace flyweights.
8	Rough engine operation.	Defective mounting bushings. Cracked engine mount or frame. Internal engine defect.	Install new mounting bushings. Replace unit. Replace unit.
9	Black exhaust smoke	Fuel-air mixture too rich.	Clean carburetor, check float needle valve, check adjustment of choke.
		Engine too cold for normal operation.	Allow cylinder head temperature to rise to green are on instrument before applying load.
		Choke out of adjustment.	Check adjustment to choke linkage.
		Faulty ignition.	Check magneto for timing, strength of spark; check plugs and wiring.
10	Faulty engine acceleration.	Engine too cold	Allow cylinder head temperature to rise until operating in green are on instrument.
		Incorrect mixture.	Check carburetor mixture adjustment and accelerating pump.
11	Engine backfires	Dirt in fuel system.	Clean fuel system.
		Incorrect fuel.	Drain tank and refill with proper grade fuel.
		Mixture too lean.	Check carburetor mixture setting.
		Incorrect ignition timing.	Check magneto timing.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Engine and Accessories (see Fig. 1-7) (cont)	
12	Engine too hot.	Loose or incorrectly installed baffles.	Check baffles.
		Air cleaner intake valve stuck so as to take in only heated air.	Check operation of rotating valve; replace if necessary.
		Restrictions in air cooling passages.	Clean cooling fins. Check louvers for obstructions.
		Lean fuel-air mixture.	Check strainer and fuel lines for dirt, damage, and obstructions, Check carburetor for dirt and proper adjustment. Check fuel pump and fuel cutoff valve setting.
		Ignition timing.	Check magneto timing.
		Low supply or wrong grade oil.	Check for proper level of specified oil in sump.
		Exhaust restrictions.	Check exhaust system.
		Worn or stuck piston ring.	Engine overhaul is necessary.
13	Engine knock.	Ignition timing.	Check magneto timing.
		Lean fuel-air mixture.	Check carburetor for dirt, proper mixture.
		Incorrect grade of fuel.	Drain tank and refill with proper mixture.
		Engine too hot.	See step 12.
		Worn pistons, piston rings, and cylinders.	Test compression. If excessive wear is indicated, overhaul is necessary.
14	Low oil pressure.	Insufficient oil.	Check oil level in sump. Add oil of recommended grade if necessary.
		Leak in oil line.	Check gasket between accessory housing and crankcase.
		Dirt in oil strainer.	Remove, clean, and replace oil strainer.
		High oil temperatures.	See step 15.
		Air lock or dirt in pressure relief valve.	Remove, clean, and reinstall oil pressure relief valve.
		Obstruction in oil pump in-take passage.	Engine must be removed to service line of intake line.
		Defective oil pressure switch. Oil pump failure.	Check switch, replace if necessary. Replace power unit.
15	High oil temperature.	Low oil supply.	Check oil level in sump. Fill with proper grade of oil.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Engine and Accessories (see Fig. 1-7) (cont)	
15 (cont)		Incorrect grade of oil.	Drain and fill with oil conforming to specification.
		Defective oil cooler.	Engine must be removed to service oil cooler. Check for obstructions.
		Exhaust blowby.	Complete engine overhaul is necessary.
16	Lubrication oil dilution.	Fuel-air mixture too rich.	Check carburetor for adjustments, dirt, condition of float valve needle.
		Incorrect grade of fuel.	Drain fuel and refill tank with proper grade.
		Excessive engine wear.	Engine must be overhauled.
17	Excessive oil consumption	Incorrect grade of oil.	Drain and refill tank with oil conforming to specification.
		Worn cylinders and piston rings.	Test compression. If excessive wear is indicated, overhaul is necessary.
18	Surging governor	Carburetor throttle shaft binding or needle valve out of adjustment.	Remove carburetor and polish throttle shaft. Adjust needle valve.
19	Engine dies when accelerated at low temperatures.	Engine not warm enough.	Allow a longer warm-up period.
		Faulty operation of thermostat switch in induction system.	Check condition of air induction system controls.
20	Surging in single unit operation.	Improper adjustment of governor sensitivity.	Readjust sensitivity.
		Improper adjustment of throttle override spring.	Readjust spring.
		Sticking throttle shaft or linkage between governor and throttle.	Free the throttle shaft or linkage until free operation is obtained.
		Improper carburetor adjustment.	Adjust carburetor.
		Faulty ignition.	Check ignition, plugs, and wiring harnesses.
21	Too much droop in parallel operation.	Improper droop adjustment.	Adjust governor.
		Bent throttle-to-governor linkage.	Straighten linkage or replace with serviceable part.
22	Recovery rate is too slow.	Lack of engine power. Too large a load.	See steps 7 and 8. Check power sensing relay.
		Improper sensitivity adjustment.	Adjust sensitivity needle on governor.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Engine and Accessories (see Fig. 1-7) (cont)	
23	Speed decreases when load is applied	Governor set in droop position or improper "no droop" adjustment.	Adjust governor.
24	Speed increases when load is applied.	Incorrect governor adjustment.	Adjust governor.
25	Surging in parallel operation.	Governor on both units set for isochronous speed control.	Adjust both governors for droop speed control.
		Too little droop on both governors. Sensitivity set too high.	Increase droop. Adjust governor for paralleling operation.
		Engine Instrument (see Fig. 2-2)	
1	No cylinder head temperature rise indicated, or no oil temperature rise indicated.	Loose connection or damaged lead.	Check condition of thermocouple leads and terminals.
2	No oil pressure indication.	Oil in instrument pressure line congealed by cold or line clogged.	Remove and clean oil pressure line.
		Damage pressure line.	Replace if found defective.
		Defective pressure switch.	Replace.
3	No reading on tachometer.	Tachometer drive cable broken.	Inspect cable drive. Replace if necessary.
		Defective indicator.	Replace.
		Open circuit.	Check circuit continuity.
		Defective tachometer drive mechanism.	Replace cable drive assembly.
4	Hunting governor	Sensitivity screw out of adjustment.	Adjust sensitivity screw.
		DC Generator Controls and Instruments (see Fig. 2-2)	
1	Indicator light inoperative on test.	Burned out bulb	Replace.
		Quadrant control switch off or ignition and battery switch off.	Move throttle or turn switch on.
		Circuit breaker tripped.	Reset circuit breaker.
		Defective wire or connection.	Check wiring and connections to quadrant control switch, to battery and to indicator lamp.
		Defective indicator lamp.	Replace lamp assembly.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		DC Generator Controls and Instruments (see Fig. 2-2) (cont)	
2	Amber light stays on when field control relay button is pushed to RESET.	Defective overvoltage relay.	Replace relay if necessary.
		Field control relay does not reset	Check tightness of terminals. Replace relay if necessary
		Defective indicator lamp.	Replace lamp assembly.
3	Amber light does not stay off when field manual relay button is pushed to RESET.	Voltage set too high.	Adjust voltage.
		Defective voltage regulator	Replace regulator.
		Defective overvoltage relay.	Replace relay.
		Defective field control relay.	Replace relay.
4	With load in the circuit, green indicator lights do not light.	Generator control switch not turned on.	Turn on switch.
		Field control relay tripped	Reset with button on field control relay.
		Bulb burned out.	Replace.
		Loose or damaged wire.	Inspect terminals at generator control relay switch indicator lamp, and wire in between for loose connections or damage; repair or replace as necessary.
		Defective field control relay.	Replace relay.
		Defective generator control switches.	Replace switch.
		No generator output.	See figure 1-3, step 3.
5	No amber light after voltage limit has been Exceeded.	Bulb burned out. bulb if defective.	Push bezel to test. Replace
		Defective overvoltage relay.	Replace relay.
		Defective field control relay.	Replace relay.
		Defective wiring or connections.	Check wiring and connections for light involved.
		Defective lamp assembly.	Replace lamp assembly.
		No. 28-volt current supply.	Check battery and connections; check circuit breaker.
6	Ammeter reads zero.	Loose connection at shunt, generator, or ammeter.	Check terminals for tightness.
		Damaged wiring	Inspect wiring for damage; repair or replace as necessary.
		Defective ammeter.	Replace ammeter.
		Generator control switch off.	Turn on switch.
		Field control relay tripped.	Reset relay.
		Generator control relay switch open.	Check wiring and connections.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		DC Generator Controls and Instruments (see Fig. 2-2) (cont)	
6		Defective generator control switch.	Replace switch.
(cont)		No load.	See figure 1-3.
7	Voltmeter reads zero.	Damaged or loose wire connections.	Check wire and connections.
		Loose or open ground connection.	Check voltmeter ground connection.
		Defective voltmeter.	Replace.
		Defective generator.	See figure 1-3.
8	Voltage too high or too low at governed speed.	Voltage regulator not properly set.	Set voltage regulator by means of knurled adjusting screw on regulator. Turn clockwise to increase voltage, counterclockwise to decrease voltage.
		Defective generator.	See figure 1-3.
		Defective regulator.	Replace.
		Current control unit out of adjustment.	Adjust current control unit.
9	No power to panel when external power source is plugged in.	Quadrant control switch not on or ignition and battery switch not on.	Move throttle to START-IDLE position.
		Circuit breaker not set.	See circuit breaker
		Defective battery line relay.	Replace relay.
		Loose connection or defective wiring.	Check for loose connections or defective wiring.
		Defective quadrant control switch or defective ignition and battery switch.	Replace if defective.
10	Panel lights inoperative.	Circuit breaker not set.	See circuit breaker.
		Batteries disconnected or discharged.	Check batteries and quick disconnects.
		Bulbs burned out.	Replace.
		Loose connections.	Inspect lamp and switch connections for tightness.
		Defective switch.	Replace.
11	Amperage output not limited at value set on current selector.	Defective selector switch.	Replace.
		Current control unit out of adjustment.	Adjust current control unit.
		Loose connection or defective wire.	Check wiring and connections for damage and tightness.
		Defective control shunt.	Replace.
12	Amperage output cannot be balanced.	Defective ammeter.	Check; if defective replace.
		Loose connection or defective wire.	Tighten terminals on generator, shunt, ammeter, and voltmeter. Check condition of wires and cables.

TROUBLE	PROBABLE CAUSE	REMEDY
	AC Generator Controls and Instruments (See Fig. 2-2) (cont)	
AC ammeter does not function.	Defective ammeter.	Replace ammeter.
	Defective or loose wiring.	Check wire harness, connectors, and terminals
	Defective transformer.	Replace transformer.
AC voltmeter does not function.	Defective voltmeter.	Replace voltmeter.
	Defective or loose wiring.	Check wire harness, connectors and terminals.
Power not available at AC outlet.	Exciter relay tripped.	Reset exciter relay.
	Defective or loose wiring.	Check wire harness, connectors, and terminals.
	Overvoltage relay tripped.	Check overvoltage relay; replace if necessary.
	Underfrequency relay inoperative.	Check speed of engine (Governed speed should be approximately 2250 RPM). Check underfrequency relay, replace if necessary.
Frequency meter does not function.	Defective meter.	Replace meter.
	Loose or defective wiring.	Check wire, connectors, and terminals.
Synchronizing lights inoperative.	Bulb burned out.	Press to test before replacing bulb.
	Defective or loose wiring.	Check wire, harness, connectors, and terminals.
Unequal AC load when two units are connected in parallel	Droop not adjusted properly	Adjust droop on both units.
	Defective or loose wiring	Check wire, harness, connectors, and terminals.
AC voltage does not drop to zero when engine is slowed to below 2000 rpm.	Underfrequency relay defective	Replace relay.
	Defective or loose wiring.	Check wire terminals on underfrequency relay.
	No. 28-volt DC to COM terminal on relay.	Check wiring on underfrequency relay, battery and ignition switch.
	Lockout relay energized.	Check; if defective replace. Check wiring or relay and AC power switch and field flashing resistor.
	Defective exciter field control relay.	Replace relay.
AC voltage jumps approximately 5 volts high at no load and drops below 115 when load is added.	Check position of paralleling switch.	Place paralleling switch in No. 1 position for single unit operation.
	. Paralleling switch defective	Replace switch.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		AC Generator Controls and Instruments (see Fig. 2-2) (cont)	
8 (cont)		Defective or loose wiring.	Check wiring and terminals on paralleling switch current transformers, and regulator.
9	With AC power cables plugged into aircraft, AC switch on but no power to aircraft.	Check position of three phase-single phase switch.	Place in position comparable to the aircraft's system.
		Check position of paralleling switch.	Place in position No. 1 for single operation.
		Defective or loose wiring.	Check wiring and terminals on AC power switch, three phase-single phase switch, paralleling switch, and single wire in cable.
10	Energize AC system by resetting AC power switch, on release of switch, voltage drops to zero.	Check frequency.	Speed of engine must be above 2000 rpm.
		Defective underfrequency relay.	Replace relay.
		Defective overvoltage relay.	Replace relay.
		Overvoltage condition.	Check generator, regulator, and wiring.
11	AC voltage does not drop to zero when voltage limit has been exceeded.	Defective overvoltage relay.	Replace relay.
		Lockout relay energized.	Locate energizing voltage source and remove. Replace relay if defective.
		Defective exciter field control relay.	Replace relay.
		Defective underfrequency relay.	Replace relay.
12	Voltage too high or too low at governed speed.	Check position of paralleling switch.	Place switch in No. 1 position for single unit operation.
		Voltage regulator not properly set.	Adjust voltage regulator.
		Defective regulator.	Replace regulator.
		DC Generators (see Fig. 1-3)	
1	Voltmeter reads zero.	Open or shorted field circuit.	Check field circuit and terminal connections. Tighten loose connections. Replace generator if field wiring is defective.
		Loose connections.	Inspect for tightness of all electrical connections of generator and regulator concerned.
		Brushes binding in holders.	Clean brushes and holders with a clean lint free cloth.
		Brushes worn out.	Check length of brushes. If less than 5/8-inch, replace.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		DC Generators (see Fig. 1-3) (cont)	
1 (cont)		Commutator dirty or burned.	With quadrant control switch off, crank engine holding a strip of No. 000 sandpaper against commutator until it is clean. Clean out sand and material removed with a dry-air jet.
		Commutator rough, pitted, or eccentric.	Remove slight roughness with No. 000 sandpaper, clean out sand and material with dry-air jet. If more than slightly rough, replace generator.
		Shorted or grounded armature.	Replace generator.
		Broken or disconnected cable or lead to generator, regulator, or relay; dirty or loose terminals. Polarity reversed, or less of residual magnetism.	Make necessary connections, repairs or replacements, clean and tighten terminals. Remove voltage regulator from base and flash shunt field in proper direction. Bring in two No. 18 or larger cables from battery; run engine at governed speed. Ground negative cable. Touch positive cable momentarily to the A terminal of the regular mounting base.
		Defective voltmeter.	Replace voltmeter.
2	Voltage too high	Voltage regulator out of adjustment.	Adjust to correct voltage.
		Cables to A and B regulator shorted to each other.	Correct short.
		Dirty or defective contact or loose connection at regulator.	Check regulator contacts and connections.
		Defective regulator.	Replace regulator.
3	No generator output	Switch off.	Turn on switch.
		Field control relay tripped.	Push button on field control relay.
		Generator control relay switch inoperative.	Replace switch.
		Armature grounded.	Replace generator.
		Commutator and brushes in bad condition.	Replace generator.
		Broken drive shaft, generator not operating.	Replace generator.
		Broken drive or gear in gear box, generator not turning.	Replace gear or drive.
		Brushes sticking, not contacting commutator.	Clean brushes and holders with a clean lint free cloth.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		DC Generators (see Fig. 1-3) (cont)	
3 (cont)		Loose or dirty connections. cleanliness and security.	Check all connections for
		Open external circuit.	Check external circuit.
		Defective ammeter.	Replace.
4	Low generator output.	Voltage regulator out of adjustment.	Adjust regulator.
		High resistance connection.	Check terminals on relays and generator.
		Worn or defective brushes.	Replace brushes.
		Low brush spring tension.	Check springs; replace if weak.
		Dirty or defective commutator.	Clean with No. 000 sandpaper; clean out sand and material with a dry-air jet. Replace generator if badly worn or damaged.
		Armature shorted.	Replace generator.
		Engine not up to proper speed.	Adjust throttle control to wide open position.
5	Excessive arcing	Brushes worn.	Replace brushes.
		Brushes binding in holders.	Clean brushes and holders with a clean, lint-free dry cloth.
		Severe overload or short.	Check circuits.
		Low brush spring tension.	Check spring tension; replace springs if defective.
		Rough, pitted, burned, or eccentric commutator.	If damage is light, clean with No. 000 sandpaper; otherwise replace generator.
		Voltage too high.	Adjust voltage regulator.
6	Commutator throwing	Excessive arcing. solder.	See step 5.
7	Generator overheats	Insufficient cooling air.	Check duct for freedom from obstructions and tightness of connections.
		Continuous overload.	Check generator output; must not exceed 500 amperes at 28 volts continuous load.
8	Generator vibrates and is noisy.	Rough bearings.	Replace generator.
9	Unequal voltages of generators.	Equalizer bus connections not tight.	Check bus connections.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		DC Generators (see Fig. 1-3) (cont)	
9 (cont)		Voltage regulators not properly adjusted.	Adjust voltage regulators to give equal voltages.
		Generator control switch not on.	Check all switches of circuit being used.
		Defective switch or relay.	Check operation of switches and relays.
10	Batteries not being charged.	Defective rectifier. Battery above 135 °F (57°C).	Replace rectifier. Battery is cut out of circuit when temperature exceeds 135°F (57°C).
		Front Drive System (see Fig. 1-10)	
1	Drive motor does not operate. NOTE Front drive system will start only in low speed.	One or more switches off.	Place DC power switch, safety switch and towbar switch in ON position.
		Loose connections or broken wire.	Check connections at switches. Check wiring for damage.
		Defective switch on relay.	Check speed control switches at base of towbar and relays on motor, check all other switches, replace if defective.
		Generator inoperative.	Check indicator lights and ammeter when switches are turned on; check voltage at AN connector plug on front to note whether generators are charging or not. If they are not, see figure 1-3. If generators are functioning, check remainder of system with voltmeter or test flight.
		Dirty commutator or worn or sticking brushes in drive motor.	Remove brushes and inspect. Note condition of commutator. Clean brushes and holders with a clean, dry cloth. Clean commutator with No. 000 sandpaper; blow out sand and dirt with dry-air jet. Replace brushes if shorter than 3/8-inch.
		Grounded armature or open field.	Replace motor.
		Mechanical failure of drive system.	Replace entire front drive.
2	Motor runs but wheels do not turn.	Drive not engaged.	Engage coupling drive handle on right wheel.

STEP	TROUBLE	PROBABLE CAUSE	REMEDY
		Front Drive System (see Fig. 1-10) (cont)	
2 (cont)		Sheared motor shaft.	Replace motor.
		Broken spline coupling.	Remove motor, replace coupling, and reinstall motor.
		Stripped gear in gear case.	Replace entire front drive.
3	System operates at only one speed.	Loose connection or defective wiring.	Tighten loose connections; replace damaged or defective wiring.
		Defective speed control switch.	Replace switch.

CHAPTER 4
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. PREPARATION FOR MAINTENANCE, STORAGE, AND RESHIPMENT

4-1. Preparation for Maintenance.

a. If generator set is crated, unpack in accordance
b. Ensure cleats are removed from between generator frame and dolly frame.
c. Remove all seals or covers from exhaust pipes breather caps, vents, and generators
d. Remove sealing gasket from between carburetor and timing bracket
e. Remove sealing gasket from between exhaust
f. Connect battery cables to batteries.
g. Ensure spark plugs are installed with paragraph 3-2.

4-2. Preparation for Storage.

Prepare generator set for storage in accordance with, paragraph 3-6.

4-3. Preparation for Shipment.

Prepare generator set for shipment in accordance with flange of cylinder and manifold assembly paragraph 3-7.

Section II. CHECKOUT AND ANALYSIS

4-4. Checkout Instructions.

The following checkout instructions evaluate the performance of the generator set. Each step in the checkout is accompanied by a RESULT statement. This RESULT statement presents the minimum performance results and a reference to a trouble analysis paragraph. If the stated results are not obtained, refer to the trouble analysis paragraph for isolation procedures. Figure 4-1 is a wiring diagram for troubleshooting the electrical circuits. Table 4-1 provides a from-to wire running list for purposes of trouble analysis. Figure 4-2 explains the generator set wire numbering system.

4-5. Initial Control Positions.

a. Ensure the following switches are positioned as indicated:

(1) AC GEN switch -OFF.

(2) DC GEN switch - OFF.

(3) VOLTAGE SELECTOR switch - OFF.

(4) Panel LIGHTS switch - OFF.

(5) IGNITION and BATTERY switch - OFF.

b. Pull the front drive circuit breaker and the convenience outlet circuit breaker.

c. Reset the BATTERY POWER circuit breaker and the blower motor circuit breaker.

4-6 Checkout of Engine and Electrical Systems.

a. Position IGNITION and BATTERY switch to ON.

RESULTS: Cooling system warning lamp will light. (Refer to paragraph 3-27.)

b. Pull out throttle one-eighth of full throttle, use choke as needed to assist start and press STARTER button.

RESULTS:
1. Starter should crank engine. (Refer to paragraph 4-9.)
2. Engine should start within a reasonable length of time. (Refer to paragraph 4-10.)

3. Cooling system warning lamp should go out. (Refer to paragraph 4-11.)

c. Pull throttle all the way out.

RESULTS:
1. Engine should idle at 800 to 900 rpm. (Refer to paragraph 4-12.)
2. Oil pressure should be 20 to 50 psi. (Refer to paragraph 4-13.)

d. Push throttle all the way out.

RESULTS:
1. Governed speed should be approximately 2250 RPM.
2. Engine should run smoothly and not "hunt". (Refer to paragraph 4-14.)
3. FREQUENCY meter should indicate 400 Hz. (Refer to paragraph 4-15.)

e. Position DC GEN switch to ON.

RESULTS:
1. GEN 3 ON lamp and GEN 4 ON lamp should light. (Refer to paragraph 4-16.)
2. DC VOLTMETER should read 28 volts when VOLTAGE SELECTOR switch is positioned to GEN 3 and to GEN 4. (Refer to paragraph 4-17.)
3. DC AMMETER GEN 3 should indicate zero amperes. (Refer to paragraph 4-18.)
4. DC AMMETER GEN 4 should indicate 100 amperes. (Refer to paragraph 4-19.)

f. Position and hold AC GEN switch to RESET.

RESULTS:
1. AC GEN ON lamp should light. (Refer to paragraph 4-20.)
2. AC VOLTMETER should indicate 115 volts. (Refer to paragraph 4-21.)

g. Position AC GEN switch to ON.

RESULTS: AC GEN ON lamp should remain on. (Refer to paragraph 4-20.)

4-7. CHECKOUT OF FRONT WHEEL DRIVE.

a. Engage coupling drive handle.
b. Ensure towbar is in vertical position.
c. Position front wheel drive circuit breaker to ON.
d. Position toggle switch on towbar eye to FWD.
e. Lower towbar from vertical position toward horizontal position.

RESULTS: Generator set should move forward at low speed then medium speed as towbar is lowered. (Refer to paragraph 4-22.)

f. Raise towbar to vertical position and position toggle switch to REV.
g. Lower towbar toward horizontal.

RESULTS: Generator set should move in reverse at low speed then medium speed as towbar is lowered.(Refer to paragraph 4-23.)

4-8. TROUBLE ANALYSIS.

The following paragraphs provide isolation procedures for troubles which may be encountered in the operation of the generator set. In the analysis of these troubles it is assumed that the generator set has been properly serviced and prepared for operation and maintenance. Prior to replacing any electrical component, the associated circuit wiring should be inspected, the inspection of connections and wiring is not included in the isolation procedures.

WARNING

Generator set shall be stopped and secured prior to removing any component.

4-9. STARTER WILL NOT CRANK ENGINE.

a. Check battery electrolyte level and specific gravity. Add water if level is low. Add electrolyte (item 14, table 1-2) if hydrometer indicates valve lower than 1.275.

b. Disconnect battery cable and check for 24-volt output from battery posts. Replace battery if less than 24 volts.

c. Hold STARTER button down and check voltage on negative terminal. Replace STARTER switch if 24 volts is not present.

d. Using a jumper cable, by-pass the solenoid and apply 24 volts directly to positive terminal of starter motor. If starter motor operates replace solenoid; if motor does not operate replace starter motor.

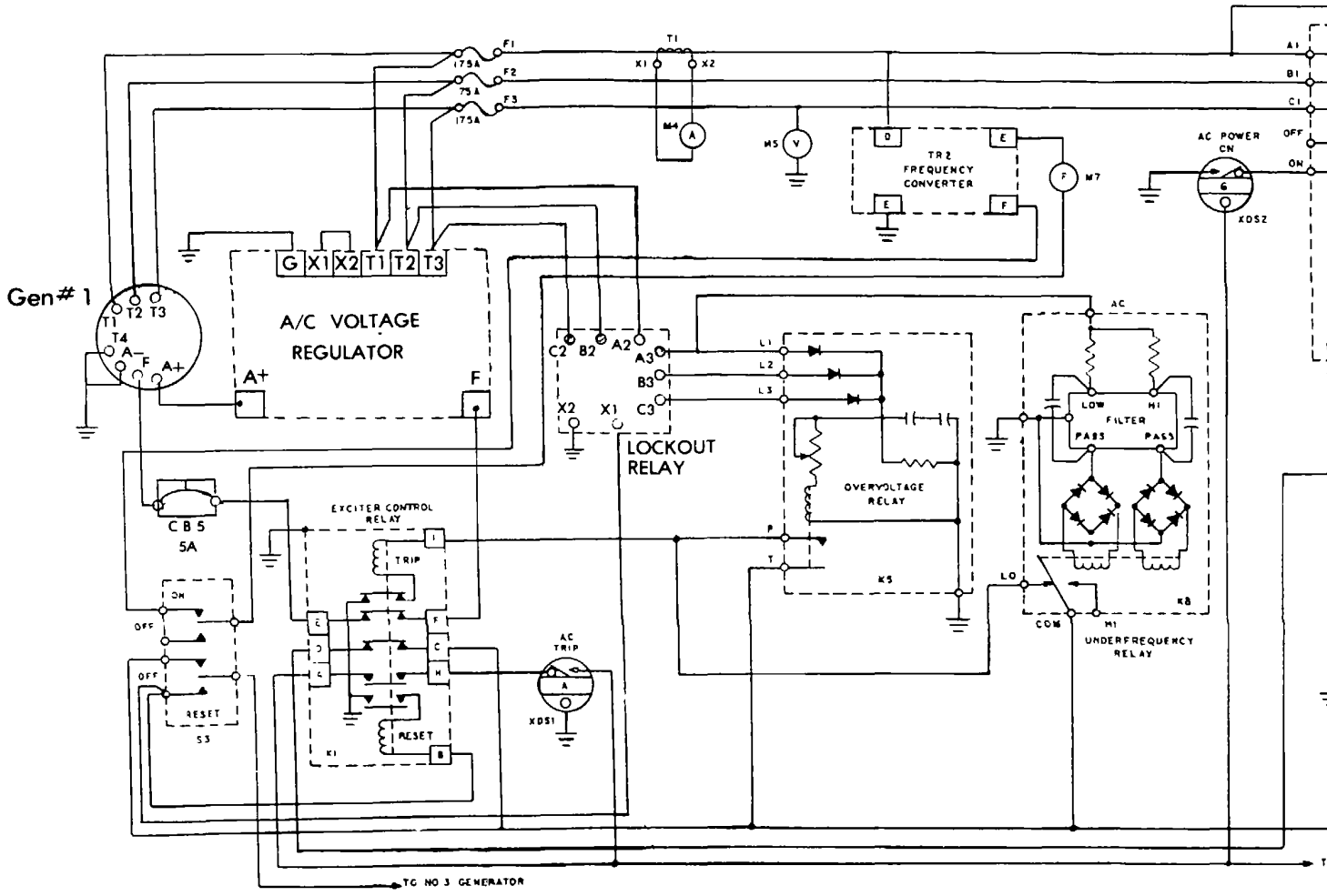

Figure 4-1A. C-26C Circuit Schematic Diagram-Modified Due to Brush Type Generator.

4-10. ENGINE FAILS TO START WHEN CRANKED.

a. Open and close throttle two or three times and attempt to start again. If engine does not start, push throttle in; open choke; press STARTER button 5 to 10 seconds.

b. Check for presence of fuel in carburetor. If fuel is present, proceed to step c; if fuel is not present, accomplish checks as follows:

(1) Check fuel filter and fuel lines. Clean as required.

(2) Check carburetor fuel shutoff solenoids. If fuel is shut off check oil level. If oil is full, check for 28 volts at shutoff solenoids. If 28 volts is present, replace oil pressure switch. If 24 volts is not present, replace shutoff solenoids.

(3) If fuel is not shut off by shutoff solenoids, check fuel pump; replace if not operating. If fuel pump is operating, repair or replace carburetor as required.

c. If fuel is present in carburetor, check oil level. If oil is full, check magneto breaker points; adjust or replace if necessary.

4-11. COOLING SYSTEM WARNING LAMP REMAINS LIT.

a. With engine running, check for 28 volts at blower motor. If 28 volts is present, replace blower motor.

b. If 28 volts is not present at blower motor, check for open resistor R11 or shorted capacitor C1.

4-12. ENGINE IDLES AT WRONG SPEED.

a. Adjust throttle or idle jet on carburetor.

b. Check magneto breaker points and spark plugs. Replace if required.

c. Check compression of cylinders. If not approximately equal, overhaul is needed; replace engine.

4-13. OIL PRESSURE TOO HIGH OR TOO LOW.

a. Check oil level; add oil if low.

b. Check oil lines; clean if obstructed.

4-14. ENGINE RUNS TOO FAST OR TOO SLOW OR "HUNTS".

a. Check magneto to breaker points and spark plugs. Replace if required.

b. Adjust governor.

4-15. FREQUENCY METER DOES NOT INDICATE 400 HZ.

a. If TACHOMETER does not indicate approximately 2250 rpm, refer to paragraph 6.

b. If TACHOMETER indicates approximately 2250 rpm, replace alternator.

4-16. DC GEN ON LAMPS FAIL TO LIGHT.

a. If TRIP lamp is on, reset field control relay.

b. If TRIP lamp remains on when field control relay is reset, replace overvoltage relay.

c. If TRIP lamp goes out when field control relay is reset, but lights again, proceed as follows:

(1) Exchange the two voltage regulators, VR1 with VR2, if the trouble transfers to the other circuit, replace voltage regulator.

(2) Exchange the two field control relays, K2 with K3, if the trouble transfers to the other circuit; replace field control relay.

(3) If the trouble remained in the same circuit in (1) and (2), replace dc overvoltage relay.

d. If TRIP lamp is not on, check GEN ON and TRIP lamp assemblies.

4-17. DC VOLTMETER DOES NOT INDICATE 24 VOLTS.

a. Position VOLTAGE SELECTOR switch to BAT. If voltmeter does not indicate 24 volts, replace voltmeter.

b. Exchange the two voltage regulators VR1 with VR2. If the trouble transfers to the other circuit, replace voltage regulator.

c. Exchange the two field control relays K1 with K2. If the trouble transfers to the other circuit replace field control relay.

d. If the trouble did not transfer to the other circuit in step b or c, replace generator.

4-18. DC AMMETER GEN 3 Indicates A No Load Current.

Check circuit for shorts and grounds.

4-19. DC AMMETER GEN 4 Indicates Other Than 100 Amperes No Load Current.

NOTE

The 100 amperes indicated by DC AMMETER GEN 4 is due to the current used by the blower motor. The batteries are also charged off generator 4. If the indication is not a substantial difference, there is no trouble.

a. If less than 100 amperes, replace blower motor.
b. If greater than 100 amperes, check rectifier and check for shorts and grounds.

4-20. AC GEN Lamp Fails To Light.

a. Press bezel of lamp assembly; if lamp does not light, replace bulb.
b. Check 3-phase contactor and exciter control relay for proper operation; replace if faulty.

4-21. AC Voltmeter Indicates Other Than 115 Volts.

a. If zero volt is indicated, check fuses F1, F2 and F3.
b. Using external voltmeter, check voltage at terminal of AC VOLTMETER. If 115 volts is present, replace AC VOLTMETER.
c. Check ac voltage regulator and generator; replace if defective.

4-22. Improper Operation of Front Wheel Drive.

a. If generator set moves in wrong direction or if it moves in one direction but not the other, replace toggle switch.
b. If generator moves only at one speed, check speed control switches, resistors, and drive circuit relay.
c. If generator set does not move in any direction, check drive control switch, speed control switches, drive control relay, speed control resistors, and drive motor.

Table 4-1. Wire Running List

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
B1	COAX CA	CB4	
B2	RED	K11 (FWD)	
B2	GREEN	K11 (REV)	
B2	BLACK	GRD	
B3 (NEG)	JUMPER	E3	
B3 (POS)	JUMPER	L1 (NEG)	
BT1 (NEG)	P2B0N	ES	W13
BT1 (POS)	P1B0	E4	W13
BT2 (NEG)	P2A0N	E5	W13
BT2 (POS)	P1A0	E4	W13
C1	JUMPER	R11	
C1	JUMPER	GRD	
CB1	M1C8	TB6-5	W30
CB1	M2A8	J9-A	W27
CB2	L1A18	S1	W31
CB2	P1E14	K7 (BTRY)	W24
CB2	P3A14	S4-1 (COM)	W24
CB2	V11A16	K6 (COM)	W20
CB3	XSB12A	K10-A1	W15
CB3	X16A12A	J8	W15
CB3	X16B12A	J7	W15

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Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
CB4	M200A4	R11	W13
CR1	P9A4	TB6-5	W30
CR1	P10A4	-6	W30
E1	P2E0N	E3	W13
E1	X4A0N	G1-T4	W13
E1A	X17B12N	J8	W15
E1A	X18A12N	K10 (NEG)	W15
E2	P2F14N	TB1-1	W24
E2	P25A0N	W12	W13
E2	P26A0N	J11 (NEG)	W13
E2	3P33A10N	VR1-N	W21
E2	4P33A10N	VR2-N	W22
E3	JUMPER	START (NEG)	
E3	P2C0N	E5	W13
E3	P2E0N	E1	W13
E3	GRD STRAP	GRD	
E3	JUMPER	B3 (NEG)	
E4	P1A0	BT2 (POS)	W13
E4	P1B0	BT1 (POS)	W13
E4	P1C0	TB6-6	W13
E4	P1D0	L1 (POS)	W13
E5	P2A0N	BT2 (POS)	W13
E5	P2B0N	BT1 (POS)	W13
E5	P2C0N	E3	W13
E5	P2D0N	W1	W13
F1	X1A0A	G1-T1	W13
F1	X5A0A	K10-AL	W13
F2	X2A0B	G1-T2	W13
F3	X3A0C	G1-T3	W13
F3	X7A0C	K10-C1	W13
FL1	J4A16	S10-1 (NC)	W17
FL1	J4B16	S9	W17
FL1	JUMPER	G5	
G1-T1	X1A0A	F1	W13
-T1	X1B12A	J2A	W15
-T2	X2A0B	F2	W13
-T2	X2A12B	J2-B	W15
-T3	X3A0C	F3	W13
-T3	X3B12C	J2-C	W15
-T4	X4A0N	E1	W13
G3-A	3P7B16	J3-B	W16
-B	E1A12	L1 (NEG)	W17
-B	3P1A0	TB6-1	W13
-B	3P1A0	TB6-1	W13
-D	3P8A16	J3-C	W16
-E	3P5A0	R3	W13
-E	3P5A0	R3	W13
G4-A	4P7B16	J4-B	W16
-B	4P1A0	TB6-2	W13
-B	4P1A0	-2	W13
-D	4P8A16	J4-C	W16

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
-E	4P5A0	R4	W13
-E	4P5A0	R4	W13
G5	JUMPER	GRD	
G5	JUMPER	FL1	
J1-A	X8A16	P11-A	W14
-B	X9A16	-B	W14
J1-C	X10A16	P11-C	W14
-D	X11B16	-D	W14
-E	X12A16	-E	W14
J2-A	X1B12A	G1-T1	W15
-B	X2B12B	-T2	W15
-C	X3B12C	-T3	W15
-D	D3A12	T1-X1	W15
-E	V3B12	TB4-2	W15
-F	V4B12	-1	W15
-G	D4B12	T1-X2	W15
-H	V10B12	K10(ON)	W15
-I	V5B12	K10-X1	W15
F2	X6A0B	K10-B1	W13
J3-A	3P23B12	P6-D	W16
-B	3P7B16	G3-A	W16
-C	3P8A16	-D	W16
-D	3P24B12	P6-E	W16
-E	3P26B16	-K	W16
-F	3P27B16	-J	W16
-G	P12A16	S7-3	W16
J4-A	4P23B12	P6-B	W16
-B	4P7B16	G4-A	W16
-C	4P8A16	-D	W16
-D	4P24B12	P6-C	W16
-E	4P26B16	-M	W16
-F	4P27B16	-L	W16
J5-A	E5B12	S8	W17
-B	E9B12	TR1	W17
-C	E7B12	QD	W17
-D	E2B12	S6	W17
-E	J1B18	S10-1 (NL)	W17
-F	E15B12	QD	W17
-G	P11B16	S74	W17
J6-B	4P23A12	R2-4V	W25
-C	4P24A12	4A	W25
-D	3P23A12	R1-3V	W25
-E	3P24A12	-3A	W25
-K	3P26A16	R3	W25
-L	4P27C16	R4	W25
-M	4P26A16	R4	W25
J7	X16B12A	CB3	W15
J7	X17A12N	J8	W15
J7	JUMPER	GRD	W15
J8	X16A12A	CB3	W15
J8	X17A12N	J7	W15

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
J8	X17B12N	E1A	W15
J8	JUMPER	GRD	
J9-A	M2A8	CB1	W27
J01-A	OIL (FN)	TC1	W18
J10-B	OIL(CN)	TC1	W18
J10-C	CYL (FE)	TC2	W18
-D	CYL (CN)	TC2	W18
J11 (NEG)	P26A0N	E2	W13
J11 (POS)	P1F0	K7 (GEN)	W13
K1 (CASE)	P30A18N	K2 (CASE)	W13
K2 (CASE)	P30A18N	K1 (CASE)	W13
J6-J	3P27C16	R3	W25
K2 (CASE)	P30C18N	TB2-3	W13
K2 (CASE)	P30B18N	K3 (CASE)	W13
K3 (CASE)	P30B18N	K2 (CASE)	W13
K4-G	3P37A18	R5	W21
-P	3P14A18	TB3-6	W21
-S	4P2B18	K8 (BTRY)	W22
-T	3P28B18	TB2-8	W21
K5-L1	X1D16A	VR3-T1	W20
-L1	X1E16A	K6-AC	W20
-L2	X2D16B	VR3-T2	W20
-L3	D1A16	M-5	W20
-L3	X3D16C	VR3-T3	W20
-P	V16A16	K6-L0	W20
-T	V2C16	S3-3 (ON)	W20
K6-AC	X1E16A	K5-L1	W20
K6-AC	X1F16A	P9-D	W20
K6 (COM)	V11A16	CB2	W20
K6-G	X20A16N	TB2-4	W20
K6 (LO)	V6A16	K5-P	W20
K6 (LO)	V6B16	P8-1	W20
K7 (BTRY)	P1E0	TB6-6	W13
K7 (BTRY)	P1E14	CB2	W24
K7 (GEN)	P1F0	J11 (POS)	W13
K7 (GEN)	4P2A0	K8 (BTRY)	W13
K8 (BTRY)	M1A0	TB6-5	W13
K8 (BTRY)	4P2A0	K7 (GEN)	W13
K8 (BTRY)	4P2B18	K4-S	W22
K8 (CASE)	P31B18N	K9 (CASE)	W30
K8 (CASE)	P31C18N	TB1-1	W30
K8 (GEN)	4P1C18	VR2-B	W22
K8 (GEN)	4P1E18	S2-4 (COM)	W22
K8 (IND)	4P17A18	XDS5-2	W22
K8 (SW)	4P11A18	P7-C	W22
K9 (BTRY)	P11A16	P5.G	W23
K9 (BTRY)	3P2B 18	S11-14	W21
K9 (CASE)	P31B18N	K8 (CASE)	W30
K9 (GEN)	3P1C18	VR1-B	W21
K9 (GEN)	3P1E18	S2-1 (COM)	W21
K9 (IND)	3P17A18	XDS4-2	W21

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
K9 (SW)	3P11A18	P12-C	W21
K10-A1	X5A0A	F1	W13
K10-A1	X5B12A	CB3	W15
K10-B1	X6A0B	F2	W13
K7-SW	P12B16	P3-G	W21
K10-C1	X7A0C	F3	W13
K10 (NEG)	X18A12N	EA	W15
K10 (ON)	V10B12	J2-H	W15
K10-X1	V5B12	-I	W15
K11-1A	M5A18	S14 (NL)	W29
K11-F	RED	S12 (FWD)	W29
K11-FR	M8A18	S14 (NC)	W29
K11 (FWD)	RED	B2	
K11 (GRD)	JUMPER	R6	
K11-R	WHITE	S12 (REV)	W29
K11-RI	M4A8	R7	W30
K11-R2	M3A8	R7 & R8	W30
K11-R3	M2C8	R8	W30
K11-R3	BLACK	S12	W29
K11 (REV)	GREEN	B2	
K11-SS	M7A18	S15 (COM)	W29
L1 (NEG)	E1A12	G3-B	W17
L1 (POS)	E2A12	S6B8	W17
L1 (NEG)	JUMPER	B3 (POS)	
L1 (POS)	P1D0	E4	W13
L2	J7A 16	S10-1 (COM)	W17
L3	E15D12	QD	W17
M1 (POS)	3P26C18	P3-E	W21
M1 (NEG)	3P27A18	-F	W21
M2 (POS)	4P26C18	P4-E	W22
M2 (NEG)	4P27C18	-F	W22
M3	E4F18	S4-1 (ON)	W23
M3	E9A18	P5-B	W23
M3	E11A18N	TB2-5	W23
M4	D3B16	P2-D	W20
M4	D4A16	-G	W20
M5	D1A16	K5-L3	W20
M5	D2A16N	TR1-3	W20
M6 (POS)	3P29A18	S11-11	W21
M6 (NEG)	3P34A18N	TB1-4	W21
M7 (POS)	D5A16	P10-E	W20
M7 (NEG)	D6A16	S3-2 (COM)	W20
M8 (POS)	E4A18	TB3-3	W23
M8 (NEG)	E5A18	P5-A	W23
M9 (POS)	OIL (FE)	P14-A	W26
M9 (POS)	CYL (FE)	-C	W26
M9 (NEG)	OIL (CN)	R10	W26
M9 (NEG)	CYL (CN)	R9	W26
P1-A	X8B16	VR3-A	W19
-B	X9B16	-B	W19
-C	X10B16	-C	W19

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
P1-D	X11A16	VR3-D	W19
-E	X12B16	-E	W19
P2-A	X1C16A	-T1	W20
-B	X2C16B	-T2	W20
-C	X3C16C	-T3	W20
-D	D3B16	M4	W20
-E	V3A16	S5 (COM)	W20
-F	V4B16	S5	W20
-G	D4A16	M4	W20
-H	V10A16	XDS2-2	W20
-I	V5A16	P8-D	W20
P3-A	3P23C12	VR1-E	W21
-B	3P7A18	P12-N	W21
-C	3P8B18	-F	W21
-D	3P24C12	VR1-1	W21
-E	3P26C18	M1 (POS)	W21
-F	3P27A18	M1 (NEG)	W21
-G	P12B16	K7 (SW)	W21
P4-A	4P23C12	VR2-E	W22
-B	4P7A18	P7-N	W22
-C	4P8B18	-E	W22
-D	4P24C12	VR2-1	W22
-E	4P26C18	M2 (POS)	W22
-F	4P27A18	M2 (NEG)	W22
P5-A	E5A18	M8 (NEG)	W23
P5-B	E9A18	M3	W23
-C	E7C18	XDS6-2	W23
-D	E2A18	S4-1 (COM)	W23
-E	J1A18	S4-1 (OFF)	W23
-F	E15A18	TB3-1	W23
-G	P11A16	K9 (BTRY)	W23
P6-B	4P23B12	J4-A	W16
-C	4P24B12	-D	W16
-D	3P23B12	J3-A	W16
-E	3P24B12	-D	W16
-J	3P27B16	-F	W16
-K	3P26B16	-E	W16
-L	4P27B16	J4-F	W16
-M	4P26B16	-E	W16
P7-A	4P16A18	XDS3-2	W22
-B	4P13A18	S2-1 (COM)	W22
-C	4P11A18	K8 (SW)	W22
-D	4P10A18	S24 (ON)	W22
-E	4P9A18	VR2-D	W22
-F	4P8B18	P4-C	W22
-G	4P28A18	TB2-8	W22
-H	4P15A18	TB3-2	W22
-N	4P7A18	P4-B	W22
-P	4P6A18	VR2-A	W22
P8-A	V8A16	TB3-4	W20
P8-B	V7A16	S3-3 (RESET)	W20

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
-C	V2B16	S3-3 (ON)	W20
-D	V5A16	P2-1	W20
-H	V9A16	XDS1-2	W20
-I	V6B16	K6 (LO)	W20
-F	X13A16	VR3-F	W20
-E	X14A16	VR3-F1	W20
P9-D	X1F16A	K6-AC	W20
-E	X19A16N	TB1-2	W20
P10-E	D5A16	M7 (POS)	W20
-F	D7A16	S3-2 (ON)	W20
P11-A	X8A16	J1-A	W14
-B	X9A16	-B	W14
-C	X10A16	-C	W14
-D	X11B16	-D	W14
-E	X12A16	-E	W14
P12-A	3P16A18	XDS3-2	W21
-B	3P13A18	S2-2 (COM)	W21
-C	3P11A18	K9 (SW)	W21
-D	3P10A18	S2-3 (ON)	W21
-E	3P9A18	VR1-D	W21
-F	3P8B18	P3-C	W21
-G	3P28A18	TB2-8	W21
-H	3P15A18	TB3-3	W21
-N	3P7A18	P3-B	W21
P12-P	3P6A18	VR1-A	W21
P13-A	M2B18	R8	W28
P14-A	OIL (FE)	M9 (POS)	W26
-B	OIL (CN)	R10	W26
-C	CYL (FE)	M9 (POS)	W26
-D	CYL (CN)	R9	W26
R1-3A	3P24A12	J6-E	W25
R1-3A	3P24D12	R2-4A	W25
R1-3V	3P23A12	J6-D	W25
R2-4A	3P24D12	R1-3A	W25
R2-4A	4P24A12	J6-C	W25
R2-4A	4P23A12	-B	W25
R3	3P5A0	G3-E	W13
R3	3P5A0	-E	W13
R3	3P26A 16	J6-K	W25
R3	3P27C 16	-J	W25
R4	4P5A0	G4-E	W13
R4	4P5A0	-E	W13
R4	4P26A16	J6-M	W25
R4	4P27C16	J6-L	W25
R5	3P31A18A	XDSI-1	W21
R5	3P31B18N	VR2-G	W21
R5	3P37A18	K4-G	W21
R6	JUMPER	K11 (GRD)	
R6	JUMPER	GRD	
R7	M4A8	K11-R1	W30
R7 & R8	M3A8	-R2	W30

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
R8 & R7	M3A8	-R2	W30
R8	M2C8	-R3	W30
R8	M2B8	P13-A	W28
R9	CYL (CN)	P14-D	W26
R9	CYL (CN)	M9 (NEG)	W26
R10	OIL (CN)	P14-B	W26
R10	OIL (CN)	M9 (NEG)	W26
R11	M1B4	TB6-5	W30
R11	M200A4	CB4	W13
R11	JUMPER	C1	W21
R12	JUMPER	R13	W21
R12	BP6B18	VR1-A	W21
R12	3P6C18	TB3-5	W21
R13	JUMPER	R12	W21
R13	4P6B18	VR2-A	W21
S1	L1A18	CB2	W31
S1	L2A18	SPLICE	W31
S2-3 (COM)	3P1E18	K9 (GEN)	W21
S2-3 (COM)	3P1F18	S11-16	W21
S2-3 (COM)	3P10A18	P12-D	W21
S2-2 (COM)	3P13A18	-B	W21
S2-4 (COM)	4P1E18	K8 (GEN)	W22
S2-4 (COM)	4P1F18	S11-15	W22
S2-4 (ON)	4P10A18	P7-D	W22
S2-1 (RESET)	4P12B16	S2-2 (RESET)	W22
S2-2 (RESET)	4P12A16	S11-13	W22
S2-1 (RESET)	4P12C18	XDS5-3	W22
S2-1 (COM)	4P13A18	P7-B	W22
S3-3 (COM)	V1A16	S 1-16	W20
S11-13	V1B16	XDS2-1	W20
S3-3 (ON)	V2A16	S5 (POS)	W20
S3-3 (ON)	V2B16	P8-C	W20
S3-3 (ON)	V2C16	K5-T	W20
S3-3 (RESET)	V7A16	P8-B	W20
S3-2 (COM)	D6A16	M7 (NEG)	W20
S3-2 (ON)	D7A16	P10-F	W20
S4-1 (COM)	E2A18	P5-D	W23
S4-1 (ON)	E4F18	M3	W23
S4-1 (OFF)	J1A18	P5-E	W23
S4-1 (COM)	P3A14	CB2	W24
S4-1 (ON)	P4A16	TB3-5	W24
S5 (POS)	V2A16	S3-3 (ON)	W20
S5 (COM)	V3A16	P2-E	W20
S5	V4B16	-F	W20
S6	E2B12	J5-D	W17
S6	E3A12	L1 (POS)	W17
S7-2	J5A16	S10-2 (COM)	W17
S7-1	J6A16N	GRD	W17
S7-4	P11B16	J5-G	W17
S7-3	P12A16	J3-G	W16
S8	E6A12N	GRD	W17
S8	E5B12	J5-A	W17

Table 4-1. Wire Running List (Cont)

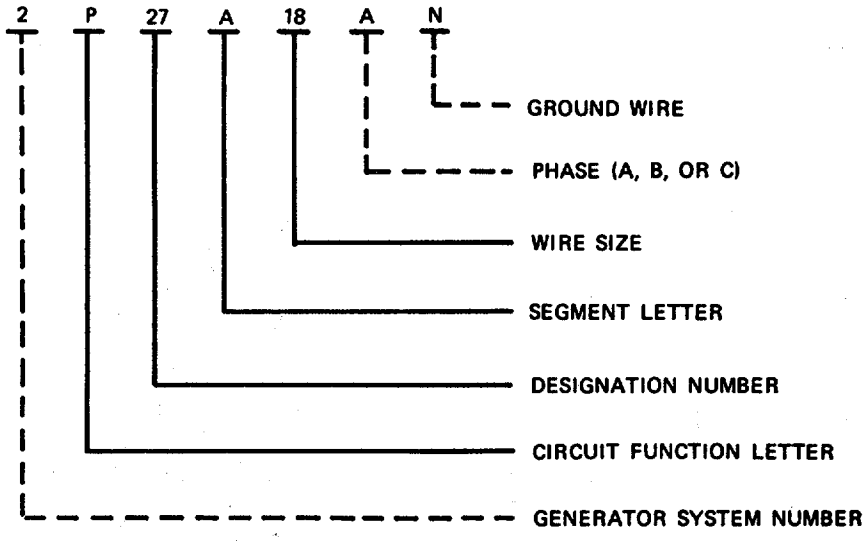
TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
S9	J4B16	FL1	W17
S10-1 (NO)	J1B18	J5-E	W17
S10-2 (NC)	J4A16	FL1	W17
S10-1 (COM)	J7A16	L2	W17
S10-2 (COM)	J5A16	S7-2	W17
S11-13	P7A16	TB3-1	W20
-16	3P1F18	S2-3 (COM)	W21
-14	3P2B18	K9 (BTRY)	W21
-11	3P29A18	M6 (POS)	W21
-15	4P1F18	S2-4 (COM)	W22
-13	4P12A16	S2-2 (RESET)	W22
-16	V1A16	S3-3 (COM)	W20
S12	BLACK	K1-R3	W29
S12 (FWD)	RED	-F	W29
S12 (REV)	WHITE	-R	W29
S13 (NO)	M7C18	S14 (COM)	W29
S13 (COM)	M10A18N	GRD	W29
S14 (COM)	M7C18	S13 (NO)	W29
S14 (NO)	M5A18	K11-1A	W29
S14 (NC)	M8A18	K11-FR	W29
S15 (CONM)	M7A18	-SS	W29
S16	E7A12	QD	W17
S16	E15C12	QD	W17
T1-X1	D3A12	J2-D	W15
T1-X2	D4B12	-G	W15
TB1-1	P2F14N	E2	W24
-1	P31C18N	K8 (CASE)	W30
-2	X19A16N	P9-E	W20
-3	D2A16N	M5	W20
-4	3P34A18N	M6 (NEG)	W21
-7	X21A16N	VR3-G	W20
-8	P2G14N	TB2-7	W24
TB2-1	E8A18N	XDS6-1	W23
-3	P30C18N	K2 (CASE)	W30
-4	X20A16N	K6-G	W20
-5	E11A18N	M3	W23
-6	3P31C18N	VR1-G	W21
-7	P2G14N	TB1-8	W24
-8	3P28A18	P12-G	W21
-8	3P28B18	K4-T	W21
-8	4P28A18	P7-G	W22
TB3-1	E15A18	P5-F	W22
-1	P7A16	S11-13	W20
-2	4P15A18	P7-H	W22
-3	E4A18	M8 (POS)	W23
-3	3P15A18	P12-H	W21
-4	V8A16	P8-A	W20
-5	P4A16	S4-1 (ON)	W24
TB3-6	E4E18	XDS6-3	W23
-6	3P14A18	K4-P	W21
TB4-1	V4A12	J2-F	W15

Table 4-1. Wire Running List (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
-2	V3B12	J2-E	W15
TB6-1	3P1A0	G3-B	W13
-1	3P1A0	-B	W13
-2	4P1A0	G4-B	W13
-2	4P1A0	-B	W13
-5	M1A0	K8 (BTRY)	W13
-5	M1B4	R11	W30
-5	M1C8	CB1	W30
-5	P9A4	CR1	W30
-6	P1C0	E4	W13
-6	P11E0	K7 (BTRY)	W13
-6	P10A4	CR1	W30
TC1	OIL(FE)	J1O-A	W18
TB3-5	3P6C18	R12	W21
TC1	OIL(CN)	J1O-B	W18
TC2	CYL(FE)	-C	W18
TC2	CYL(CN)	-D	W18
TR1	E9B12	J5-B	W17
VR1-A	3P6A18	P12-P	W21
VR1-A	3P6B18	R12	W21
-B	3P1C18	K9 (GEN)	W21
VR1-D	3P9A18	P12-E	W21
-E	3P23C12	P3-A	W21
-G	3P31C18N	TB2-6	W21
-G	4P31A18N	VR2-G	W21
-I	3P24C12	P3-D	W21
-N	3P33A10N	E2	W21
VR2-A	4P6A18	P7-P	W22
VR2-A	4P6B18	R13	W21
-B	4P1C18	K8 (GEN)	W22
-D	4P9A18	P7-E	W22
-E	4P23C12	P4-A	W22
-G	3P31B18N	R5	W22
-G	4P31A18N	VRI-G	W22
-I	4P24C12	P4-D	W22
-L	3P21A18	VRI-K	W22
-N	4P33A10N	E2	W22
VR3-A	X8B16	P1-A	W19
-B	X9B16	-B	W19
-C	X10B16	-C	W19
-D	X11A16	-D	W19
-E	X12B16	-E	W19
VR3-F	X13A16	P8-F	W20
-F1	X14A16	P8-E	W20
-G	X21A16N	TB1-7	W20
-T1	X1C16A	P2-A	W20
-T1	X1D16A	K5-L1	W20
-T2	X2C16B	P2-B	W20
-T2	X2D16B	K5-L2	W20
-T3	X3C16C	P2-C	W20
-T3	X3D16C	K5-L3	W20

Table 4-1. Wire Running Lists (Cont)

TERMINAL	WIRE NUMBER	TERMINAL	WIRING HARNESS
-X1	X22A16	VR3-X2	W20
-X2	K22A16	-X1	W20
XDSI-1	3P31A18N	R5	W21
-1	3P31D18N	XDS2-3	W20
-2	V9A16	P8-H	W20
XDSI-3	4P12F18	XDS3-3	W20
XDS2-1	VIB16	SI1-13	W20
-2	V10A16	P2-H	W20
-3	3P31D18N	XDSI-I	W20
-3	3P31E18N	XDS3-1	W20
XDS3-1	3P31E18N	XDS2-3	W20
-1	4P32A18N	XDS5-]	W22
-2	3P16A18	P12-A	W21
-2	4P16A18	P7-A	W22
-3	4P12F18	XDS1-3	W20
-3	4P12E18	XDS4-3	W20
XDS4-1	4P32B18N	XDS5-1	W22
-2	3P17A18	K9(IND)	W21
-3	4P12D18	XDS5-3	W22
-3	4P12E18	XDS3-3	W22
XDS5-1	4P32A18N	-1	W22
-1	4P32B18N	XDS4-1	W22
-2	4P17A18	KB(IND)	W22
-3	4P12D18	XDS4-3	W22
-3	4P12C18	S2-1(RESET)	W22
XDS6-1	E8A18N	TB2-1	W23
-2	E7C18	P5-C	W23
-3	E4E18	TB3-6	W23
XDS7	L3A18	SPLICE	W31
XDS7	JUMPER	GRD	W31
XDS8	L3B18	SPLICE	W31
XDS8	JUMPER	GRD	W31
GRD	JUMPER	C1	
VR3-T1	X1D16A	A/C LOCKOUT RELAY	A2
VR3-T2	X2D16B	A/C LOCKOUT RELAY	B2
VR3-T3	X3D16C	A/C LOCKOUT RELAY	C2
M5	DIA16	A/C LOCKOUT RELAY	C2
K6(LO)	V6A16	A/C LOCKOUT RELAY	P
S3-3(ON)	V2C16	A/C LOCKOUT RELAY	T
	EXISTING GND WIRE	A/C LOCKOUT RELAY	N
K6-AC	X1E16A	A/C LOCKOUT RELAY	A3
K5-L1	X4D16A	A/C LOCKOUT RELAY	A3
K5-L2	X5D16B	A/C LOCKOUT RELAY	B3
K5-L3	X6D16C	A/C LOCKOUT RELAY	C3
S3-RESET	V12A16	A/C LOCKOUT RELAY	X1
TB-1 NEG STRIP #1-5	X23A16N	A/C LOCKOUT RELAY	X2



CIRCUIT FUNCTION LETTER

D	INSTRUMENTS
E	ENG1NE INSTRUMENTS
H	HEATING SYSTEM
J	IGNITION SYSTEM
K	ENGINE CONTROL
L	LIGHTING SYSTEM
M	MISCELLANEOUS
P	DC SYSTEM
V	DC CONTROL FOR AC SYSTEM
X	AC SYSTEM

AV 009649

Figure 4-2. Wire numbering system

Section III. REPAIR PROCEDURES

4-23. General.

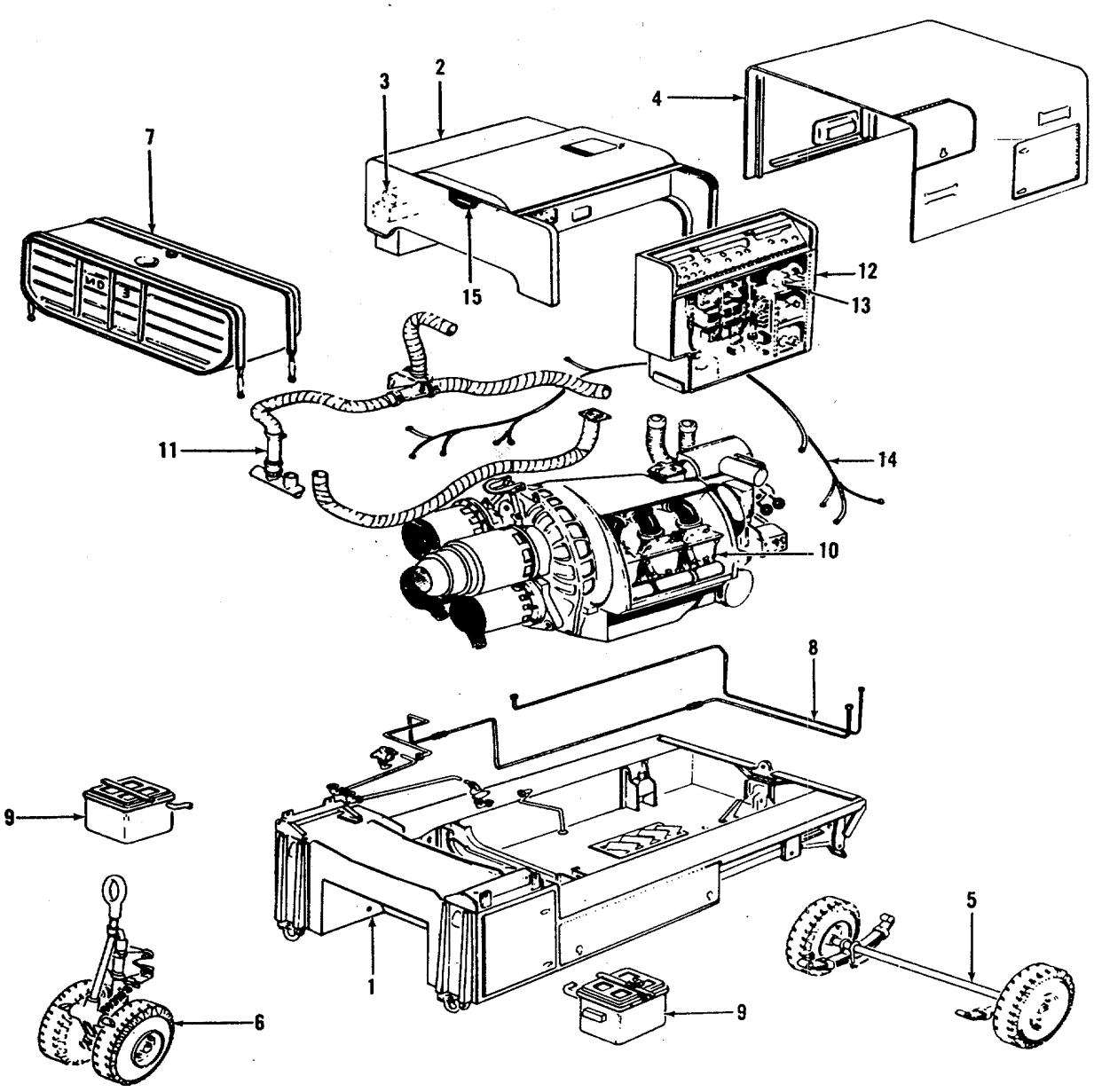
Overhaul of the generator set consists of complete disassembly, cleaning, repair and replacement, and reassembly. This section contains complete step-by-step repair procedures for all major components and related parts. Items of equipment covered by separate overhaul manuals (generator, Packette engine, etc.) will be included only to the extent of removal and replacement. The major components of the generator set are shown in figure 4-3.

4-24. Removal and Disassembly.

4-25. Dolly Assembly.

Disassemble the dolly assembly as follows: (See figure 4-4.)

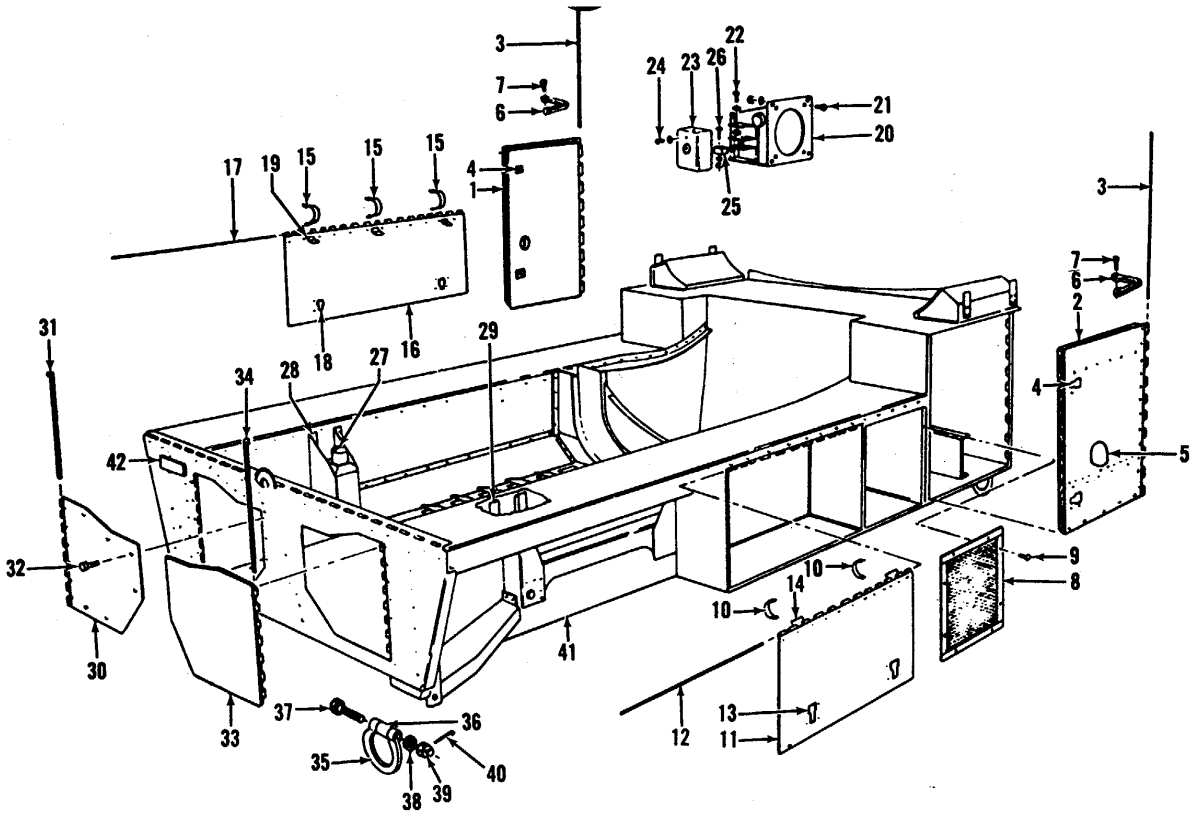
a. Release latches (4); remove screws (7), nuts, and holder (6).



AV 009650

1. Dolly assembly
2. Upper structure assembly
3. Power distribution compartment installation
4. Upper aft hood assembly installation
5. Rear wheel installation
6. Front wheel drive installation
7. Fuel tank assembly
8. Fuel line installation
9. Battery installation
10. Engine installation
11. Winterization installation
12. Control box assembly
13. Control box wiring and cable
14. Engine and chassis harness
15. Cable compartment

Figure 4-3. Major components -C-26 C generator set



AV 009651

1. Door	8. Screen	15. Spring	22. Bolt	29. Bracket	36. Bushing
2. Door	9. Screw	16. Panel	23. Cover	30. Door	37. Bolt
3. Pin	10. Spring	17. Pin	24. Screw	31. Pin	38. Washer
4. Latch	11. Door	18. Latch	25. Switch	32. Screw	39. Nut
5. Shield	12. Pin	19. Clip	26. Screw	33. Door	40. Pin
6. Holder	13. Latch	20. Manifold	27. Mount	34. Pin	41. Chassis
7. Screw	14. Clip	21. Bolt	28. Bracket	35. Lug	42. Plate

Figure 4-4. Dolly Assembly

b. Remove hinge pins (3) and doors (I and 2).
c. Remove screws (9) and screen (8).
d. Release latches (13) and springs (10).
e. Remove hinge pin (12), clips (14), and door (11).
f. Release latches (18) and springs (15).
g. Remove hinge pin (17), clips (19), and door (16).
h. Remove screws (24), washers, and cover (23).
i. Remove screw (26) washer and nut, and switch (25).
j. Remove bolts (21), washers, nuts, bolts (22), washers, and manifold (20).
k. Remove mount (27) and bracket (28).
l. Remove bracket (29).
m. Remove screws (32), hinge pin (31), and door (30).
n. Remove hinge pin (34) and door (33).
o. Remove pin (40), nut (39), washer (38), bolt (37), bushing (36), and lug (35).

4-26. Upper Structure Assembly.

a. Removal. Removal of the upper structure assembly is accomplished by removing bolts and washers (22) and lifting upper structure assembly clear. (See figure 4-5.)

b. Disassembly. Disassemble the upper structure assembly as follows: (See figure 4-5.)

(1) Remove screws and washers (3), clamps, washers and nuts (1), and panel (2).
(2) Remove switches (6 and 7).
(3) Release turnlock stud and pins (8 and 9) and remove cover (10).
(4) Remove screws (12) and door (11).
(5) Remove screws (14) and door (13).
(6) Release latches (17), remove pin (16) and remove door (15) and screen (18).
(7) Remove rubber extrusions (19 and 20).

4-27. Power Distribution Compartment.

Disassembly of the power distribution compartment consists of disconnecting and removing the ac power cable and two dc power cables. (See figure 1-6.)

4-28. Upper Aft Hood Assembly.

a. Removal. Remove upper aft hood assembly as follows: (See figure 4-6.)

(1) Release latches (10) and open hood.
(2) Remove latches (1) at rear of dolly and remove hood.

b. Disassembly. Disassemble upper aft hood assembly as follows: (See figure 4-6.)

(1) Remove doors (4 and 7) by releasing latches (6 and 9), removing hinge pins (5 and 8) and removing springs (3).

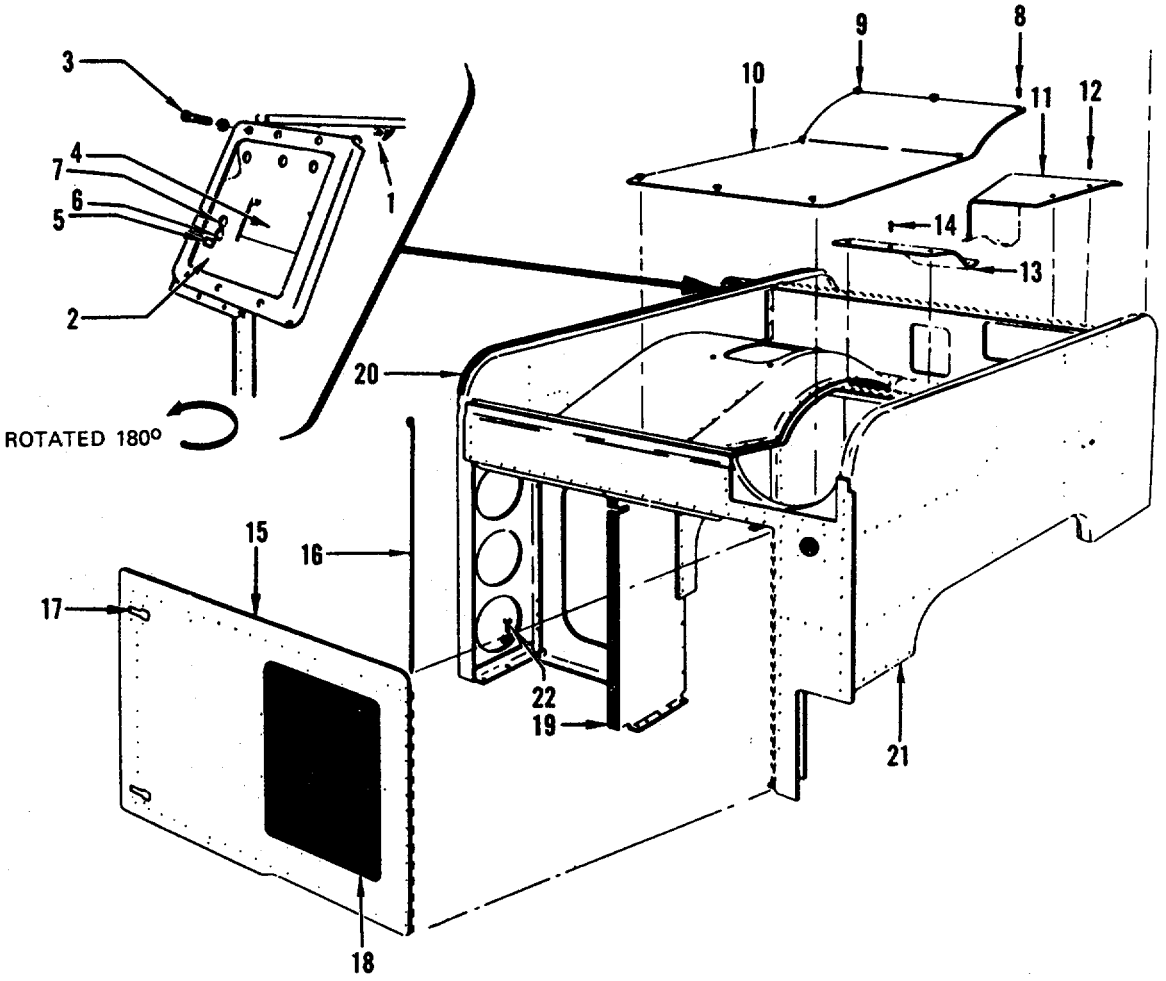
(2) Remove exhaust mufflers (11 and 20) by removing screws (12 and 21), washers (13, 14, 22 and (23), nuts (15 and 24), screws (16 and 25), washers (17, 18, 26, and 27) and nuts (19 and 28).

(3) Remove liner (30) and retainer (31) from muffler by removing screws (32), washers, and nuts.

4-29. Rear Wheel Assembly.

Refer to figure 4-7 and disassemble the rear wheel assembly as follows:

a. Remove nuts (28) and remove wheel.
b. Deflate tire; remove nuts (31) and bolts (32).
c. Separate shells (29 and 30).
d. Remove tube (35) from tire (34).
e. Remove cap (33).
f. Remove pin (22), nut (23), washer (21), and race and bearing (25).



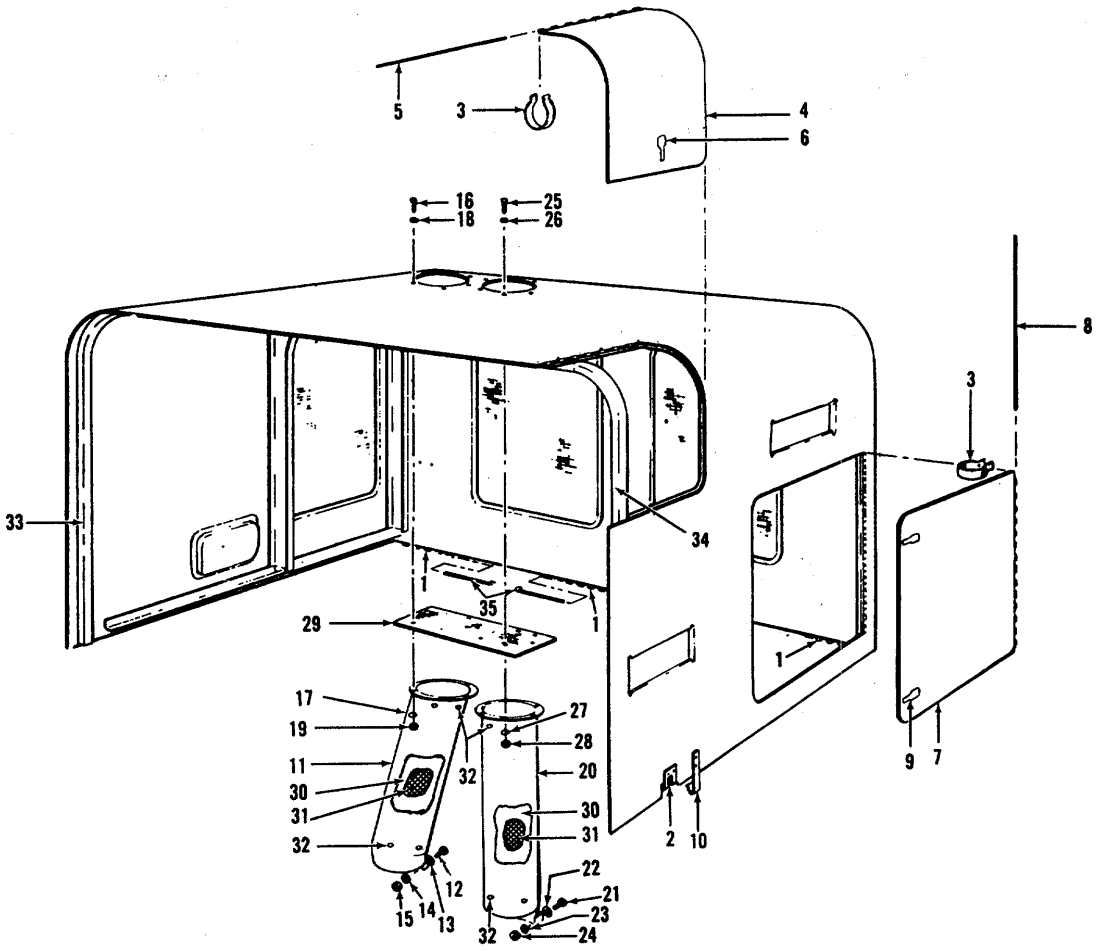
Note

CABLE COMPARTMENT COVERS REMOVED
NO LONGER REQUIRED

AV 009644

1. Clamp
2. Panel
3. Screw
4. Decal
5. Decal
6. Switch
7. Switch
8. Stud and Pin
9. Stud and Pin
10. Cover
11. Door
12. Screw
13. Door
14. Screw
15. Door
16. Pin
17. Latch
18. Screen
19. Extrusion, Rubber
20. Extrusion, Rubber
21. Structure Assembly
22. Bolt

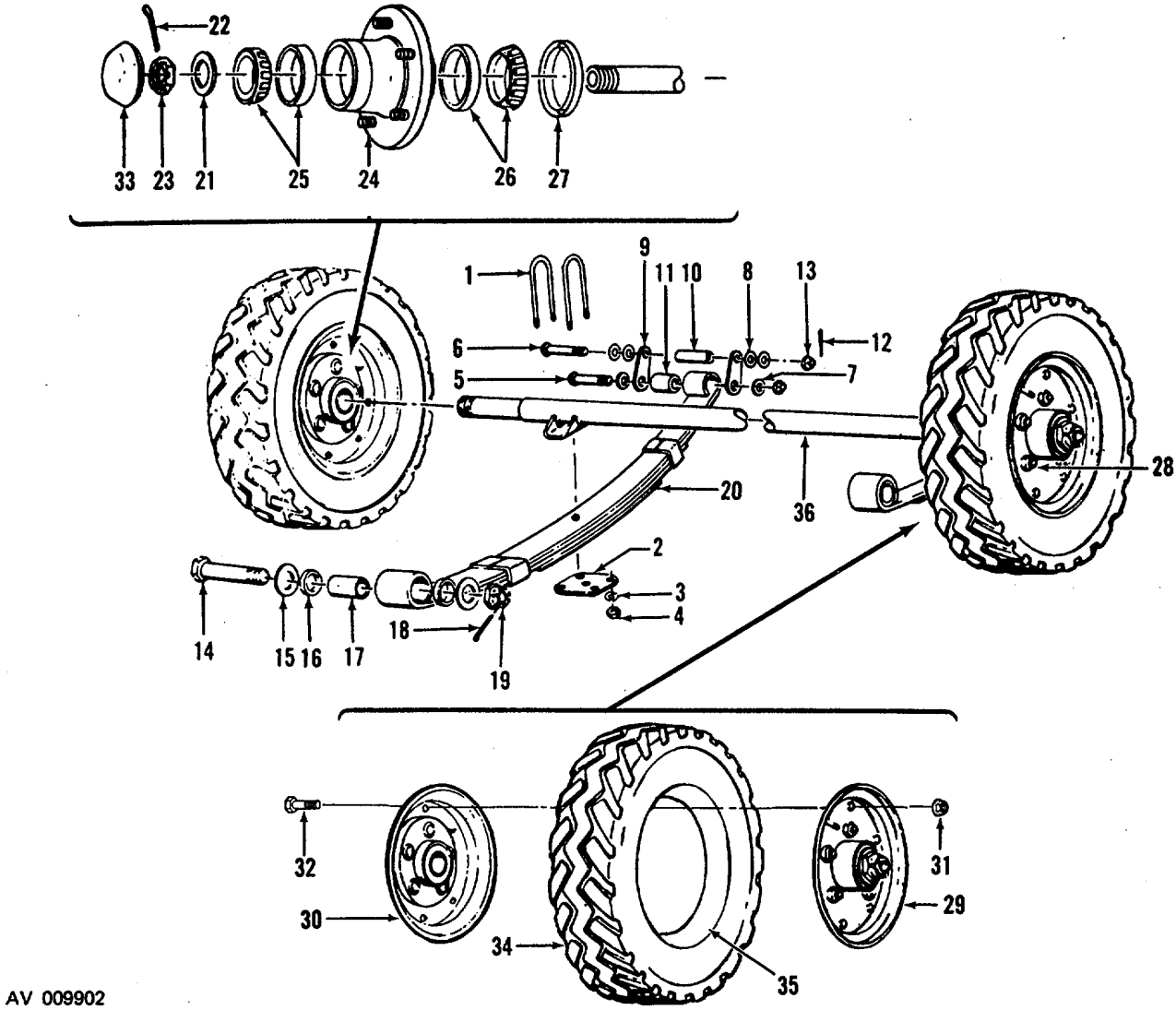
Figure 4-5. Upper structure assembly



AV 009901

1. Hinge
2. Latch
3. Spring
4. Door
5. Pin
6. Latch
7. Door
8. Pin
9. Latch
10. Latch
11. Muffler
12. Screw
13. Washer
14. Washer
15. Nut
16. Screw
17. Washer
18. Washer
19. Nut
20. Muffler
21. Screw
22. Washer
23. Washer
24. Nut
25. Screw
26. Washer
27. Washer
28. Nut
29. Screen
30. Liner
31. Retainer
32. Screw
33. Rib
34. Rib
35. Hinge pin

Figure 4-6. Upper aft hood assembly



1. Bolt "U"
2. Plate
3. Washer
4. Nut
5. Bolt
6. Bolt
7. Washer
8. Washer
9. Shackle
10. Bushing
11. Bushing
12. Pin
13. Nut
14. Bolt
15. Washer
16. Spacer
17. Bushing
18. Pin
19. Nut
20. Spring
21. Washer
22. Pin
23. Nut
24. Hub
25. Race and Bearing
26. Race and Bearing
27. Seal
28. Nut
29. Shell
30. Shell
31. Nut
32. Bolt
33. Cap
34. Tire
35. Tube
36. Axle

Figure 4-7. Rear wheel installation

g. Remove hub (24) and press out race and bearing (26), and seal (27).
h. Remove nuts (4) and washers (3) from "U" bolts (1).
i. Remove "U" bolts.(l) and plates (2).
j. Remove pins (12), nuts (13), washers (7 and 8), bolts (5 and 6), shackles (9), bushings (9 and 10). Lower forward ends of springs (20).
k. Remove pins (18), nuts (19), bolts (14), washers (15 and 16), bushings (17), and springs (20).
l. Remove axle (36).

4-30. Front Wheel Drive Assembly.

Refer to figure 4-8 and disassemble the front wheel drive assembly as follows:

WARNING

Prior to disassembly of front wheel drive assembly defuel the gas tank.

a. Hoist or jack up dolly then install a support under the dolly near each tiedown lug.
b. Disconnect electrical connector (89).
c. Remove nuts (81), washers (82), and plate (83).

NOTE

Care shall be used at this point to utilize human or mechanical support of the front wheel drive assembly as it is entirely disconnected from the dolly and ready for disassembly.

1. Handle
2. Pin
3. Screw
4. Washer
5. Cap
6. Packing
7. Seal
8. Ring
9. Bearing
10. Ring
11. Axle
12. Shaft
13. Spring
14. Stop
15. Coupling
16. Washer
17. Washer
18. Nut
19. Spacer
20. Housing
21. Cap
22. Cap
23. Bolt
24. Washer
25. Pinion
26. Gear
27. Bushing
28. Axle and Cap
29. Shaft
30. Washer
31. Set Screw
32. Bushing
33. Bearing
34. Gear
35. Gear
36. Bearing
37. Bearing
38. Washer
39. Nut
40. Pin
41. Key
42. Cap
43. Stud
44. Washer
45. Washer
46. Nut
47. Pin
48. Spacer
49. Spacer
50. Spacer
51. Seal
52. Coupling
53. Housing
54. Screw
55. Washer
56. Gasket
57. Plug
58. Housing
59. Plate
60. Bolt
61. Washer
62. Washer
63. Nut
64. Gear
65. Pan
66. Screw
67. Washer
68. Gasket
69. Plug
70. Plug
71. Adapter
72. Screw
73. Washer
74. Ring
75. Bearing
76. Washer
77. Bearing
78. Bracket
79. Nut
80. Washer
81. Nut
82. Washer
83. Plate
84. Strap
85. Tube
86. Roll Pin
87. Harness
88. Terminal
89. Connector
90. Clamp
91. Support
92. Screw
93. Spacer
94. Insulator
95. Bolt
96. Washer
97. Washer
98. Nut
99. Insulator
100. Bolt
101. Washer
102. Washer
103. Nut
104. Resistor
105. Resistor
106. Bolt
107. Washer
108. Washer
109. Nut
110. Shield
111. Bolt
112. Washer
113. Washer
114. Nut
115. Shaft
116. Spring
117. Pin
118. Switch
119. Spring
120. Bus
121. Screw
122. Washer
123. Washer
124. Nut
125. Lid
126. Screw
127. Grommet
128. Bolt
129. Washer
130. Nut
131. Eye
132. Pin
133. Washer
134. Nut
135. Catch
136. Bolt
137. Nut
138. Tube
139. Pin
140. Washer
141. Nut
142. Fitting
143. Nipple
144. Brake
145. Brake
146. Bolt
147. Washer
148. Nut
149. Spring
150. Harness
151. Switch
152. Screw
153. Cover
154. Screw
155. Washer
156. Clamp
157. Screw
158. Strap
159. Grommet
160. Rim
161. Stud
162. Nut
163. Tire
164. Motor
165. Bolt
166. Washer
167. Cover
168. Bolt
169. Washer
170. Washer
171. Nut
172. Controller
173. Bolt
174. Washer
175. Bushing
176. Bushing
177. Gasket
178. Decal

Figure 4-8. Front wheel drive installation (Sheet 1 of 2)

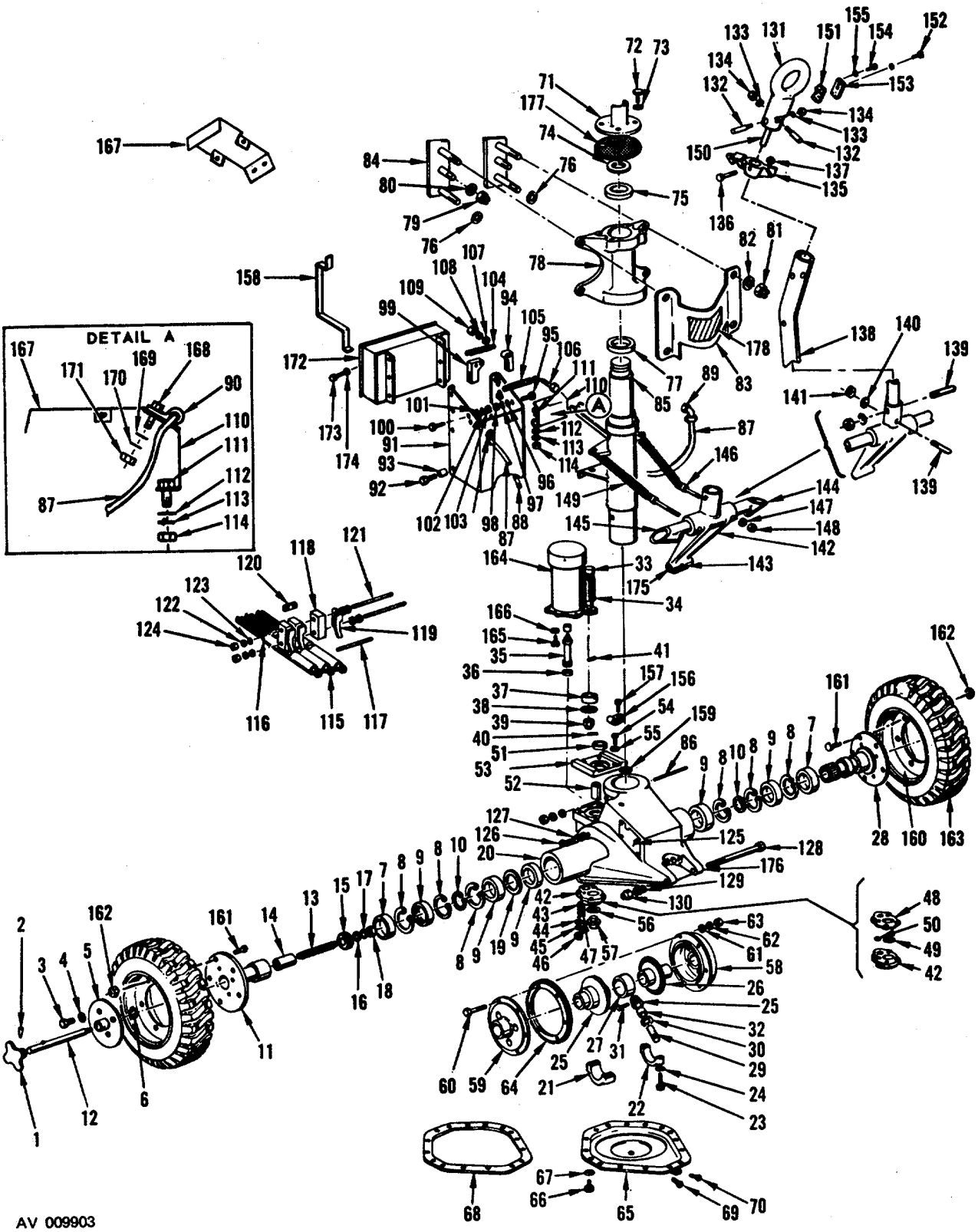


Figure 4-8. Front wheel-drive installation (Sheet 2 of 2)

d. Remove screws (72), washers (73), brake catch adapter (71), gasket (177), retainer ring (74), bearing (75), bracket (78), bearing (77) and pin (86).
e. Disconnect electrical leads from motor controller, and remove ground strap (158); remove motor controller (72) by removing bolts and washers (173 and 174); remove harness (87), clamp (90), shield (110), and cover (167) by removing nuts (114 and 171), washers (112, 113, 169, and 170), bolts (111 and 168); remove insulators (94 and 99), resistors (104 and 105), by removing nuts (98, 103; and 109), washers (96, 97, 101, 102, 107, and 108) and bolts (95, 100, 106).
f. Disconnect leads to resistors (104 and 105) then remove bolts (92) and spacers (93); lift off relay support (91).
g. Remove motor (164) by removing bolts (165) and washers (166).
h. Remove coupling from spur gear (35).
i. Remove lid (125) from microswitch housing; remove nuts from screws (121) and slide switches out of housing (20). Disconnect electrical leads.
j. Remove springs (116), actuator shafts (115), bushings, switches (118), pins (117), and bus (120).
k. Remove cover plate (153) and switch (151) by removing screws (154) and washers (155). Remove switch (151) from cover plate by removing screws (152) and washers and disconnect electrical leads.
l. Drain oil by removing plug (69). Remove pan (65) and gasket (68) by removing screws (66) and washers (67).
m. Place handle (1) in disengaged position and remove right wheel cap (5) by removing screws (3) and washers (4). Refer to paragraph 4-30 for wheel removal and disassembly.
n. Remove bearing cap (21) by removing bolts (23) and washers (24).
o. Remove snap rings (8) from right axle and remove axle (11).
p. Remove grease seal (7) and retaining ring (10).
q. Remove nut (17), washer (16), coupling (15), spring (13), stop (14), and shaft (12).
r. Remove handle (1) from shaft (12).

4-31. Fuel Tank Assembly.

Refer to figure 4-9 and remove fuel tank as follows:

a. Disconnect fuel supply tube and drain tube from fuel tank.

NOTE

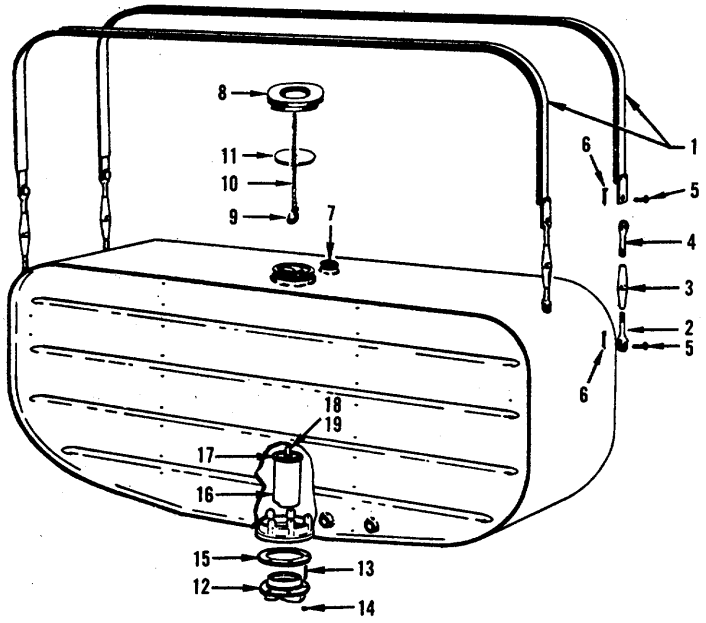
Access to connections is gained through the fabric covered lightening holes in front wheel well of chassis.

b. Remove fuel tank straps (1) by loosening body (3) and removing pins (5 and 6) and turnbuckle assemblies (2, 3 and 4).
c. Remove tank from dolly assembly.
d. Remove fuel gage assembly (7).
e. Remove fuel filter (16) by removing nuts (14), sump (12), gasket (15), nut (19), and plate (17).
f. Remove cap (8), gasket (11), and chain (10) by unfastening hook (9).

4-32. Fuel Lines.

Repair of the fuel lines consists of replacement of tube assemblies, and valves. Disassemble fuel lines as follows: (See figure 4-10.)

a. Remove tube (1) by removing screws (4 and 5). Remove washers, nuts, clamps (2 and 3), and spacers (6 and 7). Disconnect union (8).
b. Remove tube (10) by removing screws (12), nuts, washers, clamps (11), and spacers (13). Disconnect union (14).
c. Remove tube (15) by removing screws (17), washers, nuts, clamps (16), and elbow (18).
d. Remove shutoff valve (19) by removing screws (20), washers, nut, and elbow (21).
e. Remove unions (22 and 23) from valve (19).
f. Remove tube (26) and grommet (24) by removing elbow (30).



1. Strap
2. Clevis
3. Body
4. Clevis
5. Pin
6. Pin
7. Gage
8. Cap
9. Hook
10. Chain
11. Gasket
12. Sump
13. Stud
14. Nut
15. Gasket
16. Filter
17. Plate
18. Stud
19. Nut

Figure 4-9. Fuel tank assembly

g. Remove elbow (29).

h. Remove valve (28), elbow (29), and hose (27).

4-33. Battery System.

Remove the batteries and disassemble the battery system as follows: (See figure 4-11.)

a. Remove valve assembly (23) from tube (15).

b. Remove tubes (15 and 16) be removing screws (17), washers (18 and 19), and nuts (20).

c. Remove battery connectors (12) by removing screws (10) and washers (11).

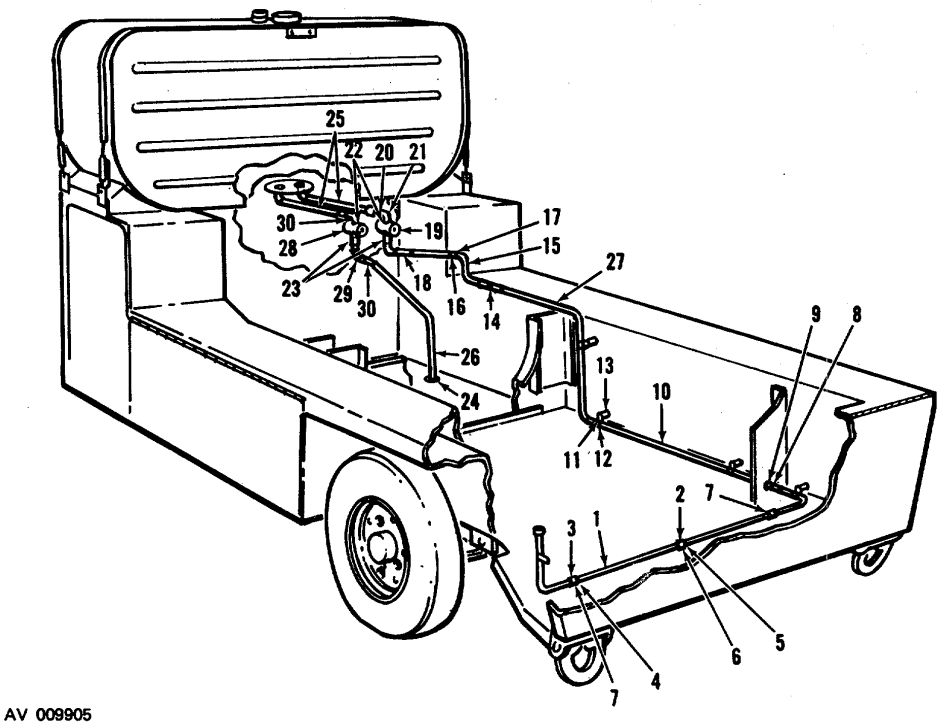
d. Remove nuts (5 and 6), washers (7), rods (2), forks (3), bolts (4), and cover (8).

e. Lift out batteries (1).

f. Remove tubes(13).

g. Disconnect and remove elbows (14).

h. Remove clamps (41 and 47).



1. Tube
2. Clamp
3. Clamp
4. Screw
5. Screw
6. Spacer
7. Spacer
8. Union
9. Nut
10. Tube
11. Clamp
12. Screw
13. Spacer
14. Union
15. Tube
16. Clamp
17. Screw
18. Elbow
19. Valve
20. Screw
21. Elbow
22. Union
23. Union
24. Grommet
25. Hose
26. Tube
27. Tube
28. Valve
29. Elbow
30. Elbow

Figure 4-10. Fuel line installation

i. Remove elbows (38 and 43), tee (45), adapter (46), clamp (22), tubing (21), and hose (40).

4-34. Engine.

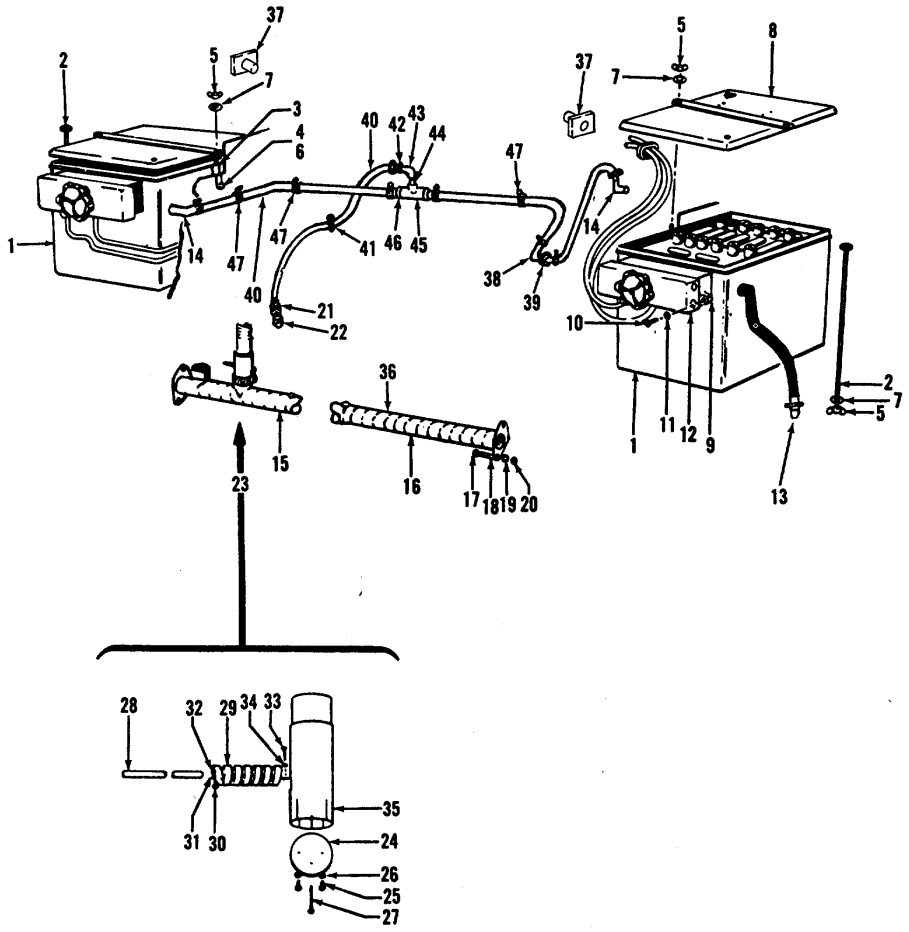
Remove engine as follows: (See figure 4-12.)

a. Disconnect cables and control wires from alternator (32).

b. Disconnect cables and control wires from generators (30).

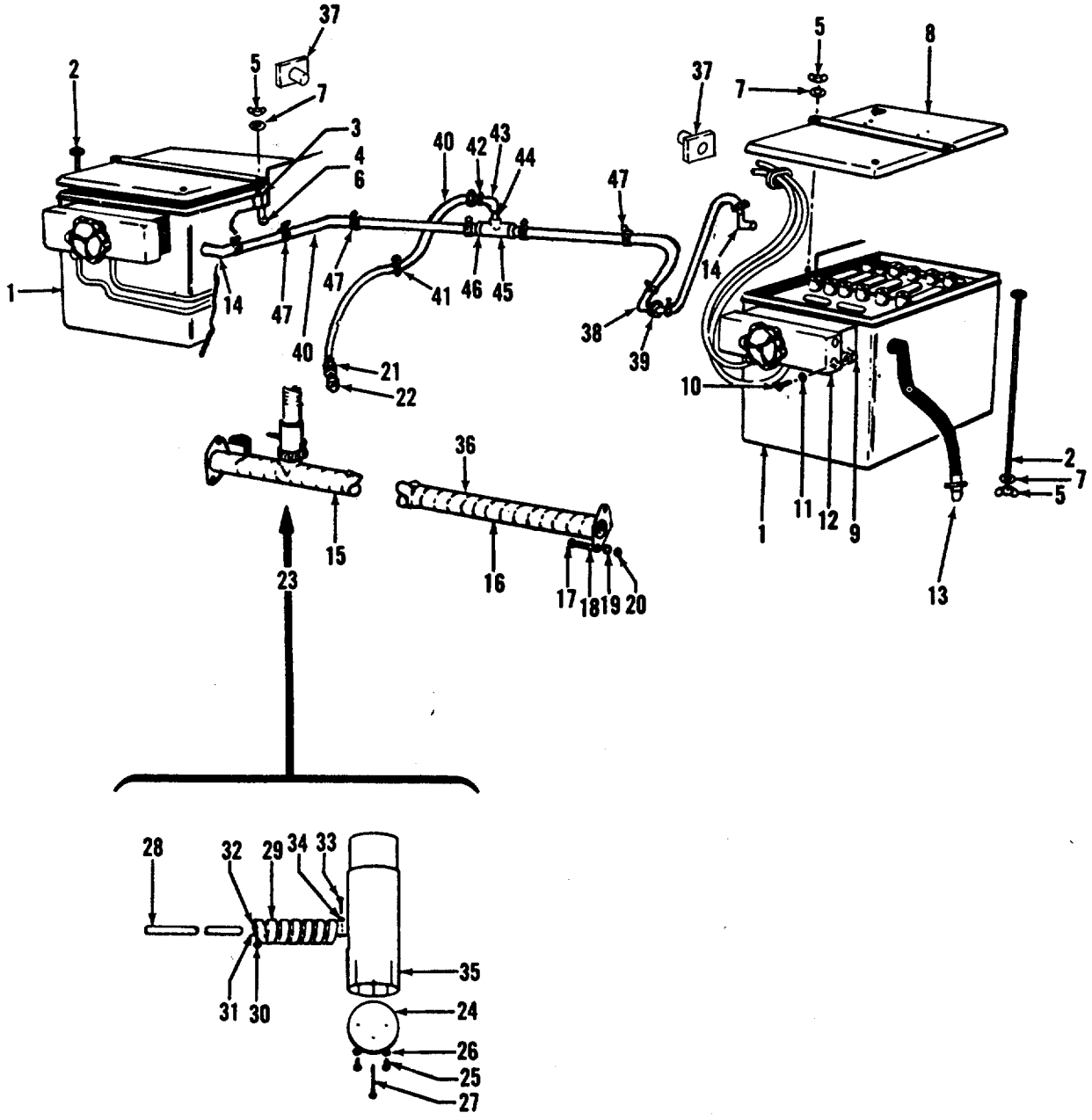
c. Remove battery cable and front drive cable from terminal block.

d. Disconnect ducts (44 and 48) from generators (30) by removing clamps (45 and 49) at generator end.



1. Battery
2. Rod
3. Fork
4. Bolt
5. Nut
6. Nut
7. Washer
8. Cover
9. Connector
10. Screw
11. Washer
12. Connector
13. Tube
14. Elbow
15. Tube
16. Tube
17. Screw
18. Washer
19. Washer
20. Nut
21. Tubing
22. Clamp
23. Valve
24. Flapper
25. Screw
26. Washer
27. Screw
28. Shaft
29. Coil
30. Screw
31. Washer
32. Nut
33. Screw
34. Washer
35. Housing
36. Tape
37. Caplug
38. Elbow
39. Nut
40. Hose
41. Clamp
42. Grommet
43. Elbow
44. Clamp
45. Tee
46. Adapter
47. Clamp

Figure 4-11. Battery installation



1. Battery
2. Rod
3. Fork
4. Bolt
5. Nut
6. Nut
7. Washer
8. Cover
9. Connector
10. Screw
11. Washer
12. Connector
13. Tube
14. Elbow
15. Tube
16. Tube
17. Screw
18. Washer
19. Washer
20. Nut
21. Tubing
22. Clamp
23. Valve
24. Flapper
25. Screw
26. Washer
27. Screw
28. Shaft
29. Coil
30. Screw
31. Washer
32. Nut
33. Screw
34. Washer
35. Housing
36. Tape
37. Caplug
38. Elbow
39. Nut
40. Hose
41. Clamp
42. Grommet
43. Elbow
44. Clamp
45. Tee
46. Adapter
47. Clamp

Figure 4-11. Battery Installation

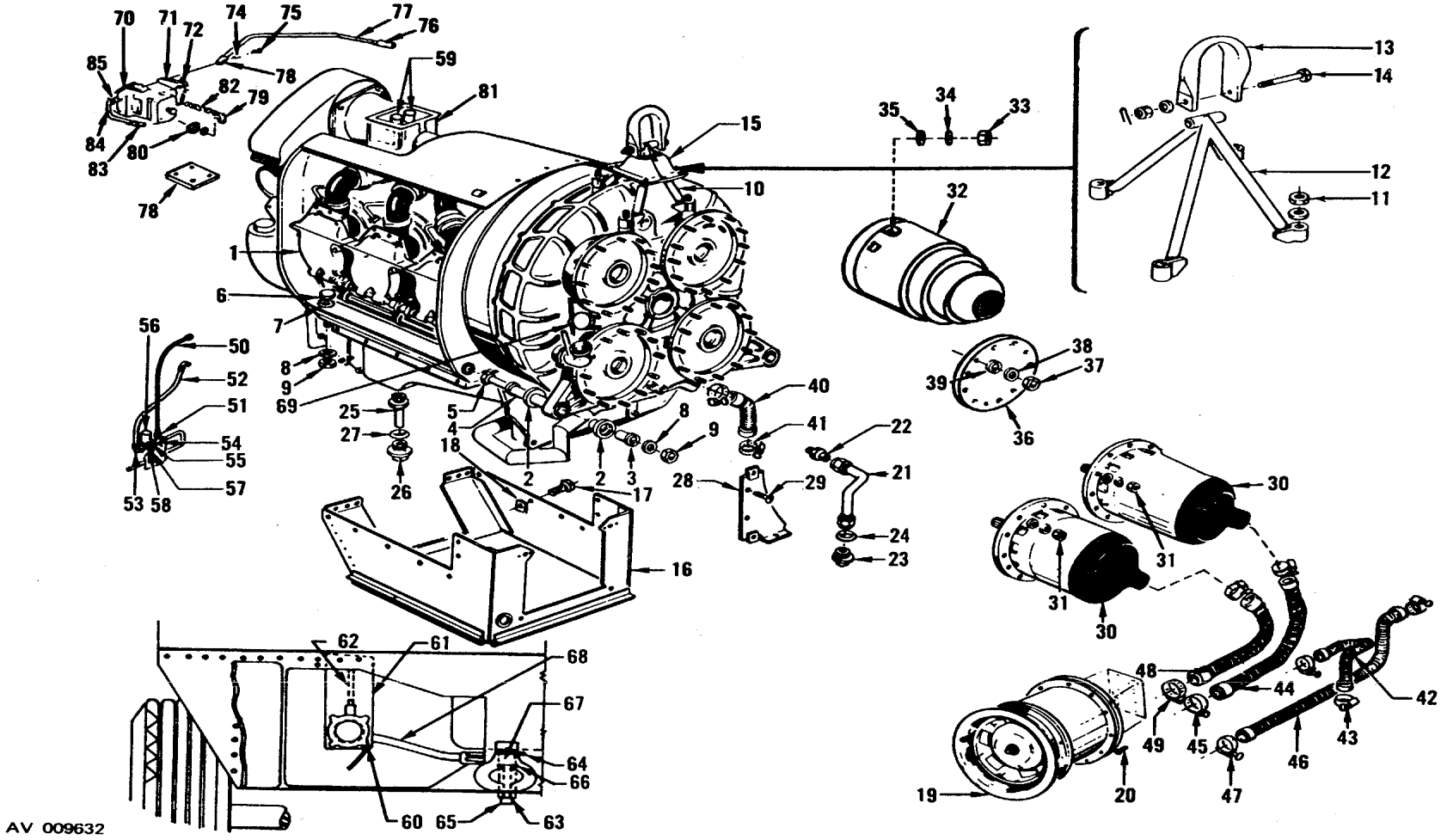


Figure 4-12. Engine installation (Sheet 1 of 2)

1. Engine
2. Bushing
3. Retainer
4. Retainer
5. Bolt
6. Bolt
7. Washer
8. Washer
9. Nut
10. Fitting
11. Nut
12. Bracket
13. Ring
14. Bolt
15. Boot
16. Duct
17. Screw
18. Nut
19. Fan
20. Bolt
21. Hose
22. Nipple
23. Plug
24. Gasket
25. Drain
26. Plug
27. Gasket
28. Baffle
29. Screw
30. Generator
31. Nut
32. Alternator
33. Nut
34. Washer
35. Washer
36. Plate
37. Nut
38. Washer
39. Washer
40. Duct
41. Clamp
42. Duct
43. Clamp
44. Duct
45. Clamp
46. Duct
47. Clamp
48. Duct
49. Clamp
50. Hose
51. Bushing
52. Hose
53. Elbow
54. Tee
55. Bushing
56. Valve
57. Bolt
58. Spacer
59.. Relay
60. Switch
61. Bracket
62. Vent
63. Bolt
64. Plug
65. Plug
66. Gasket
67. Elbow
68. Hose
69. Cover
70. Governor
71. Arm
72. Bolt
73. Clevis
74. Bushing
75. Screw
76. Ball-joint
77. Rod
78. Adapter
79. Clip
80. Nut
81. Arm
82. Spring
83. Nipple
84. Hose
85. Elbow

Figure 4-12. Engine installation (Sheet 2 of 2)

e. Remove hot air duct from engine shroud.
f. Disconnect hot air duct between heater and dolly fender.
g. Remove flexible gas lines from heater, heater blower engine, main engine, and fuel pump.
h. Remove bolts from engine mounts and lift engine from dolly using hoist ring (13).

4-35. Generators.

Remove generators as follows: (See figure 4-12.)

WARNING

Do not allow generator to hang by drive shaft. Support generator and remove lower attaching nuts first. Serious injury to personnel or damage to generator might occur if generator is accidentally dropped.

a. Disconnect duct (44 or 48) by removing clamp (45 or 49). Disconnect cable.
b. Remove nuts (31) and washers.
c. Pull generator (30) straight out from mounting pad.

4-36. Alternator.

Remove alternator as follows: (See figure 4-12.)

WARNING

Do not allow alternator to hang by drive shaft. Support alternator and remove lower attaching nuts first. Serious injury to personnel or damage to alternator might occur if alternator is accidentally dropped.

a. Disconnect electrical leads from alternator (32).
b. Remove nuts (33) and washers (34 and 35).
c. Pull alternator straight out from mounting pad.

4-37. Fan Assembly.

Remove blower fan and components as follows: (See figure 4-12.)

a. Remove frame holding protective screen.
b. Remove bolts (20).
c. Disconnect electrical wiring from terminals located in power distribution compartment.
d. Lift out blower assembly.
e. Remove clamps (45, 47, and 49) disconnecting ducts (44, 46, and 48).
f. Disconnect leads and remove manifold pressure switch.
g. Remove manifold.

4-38. Governor.

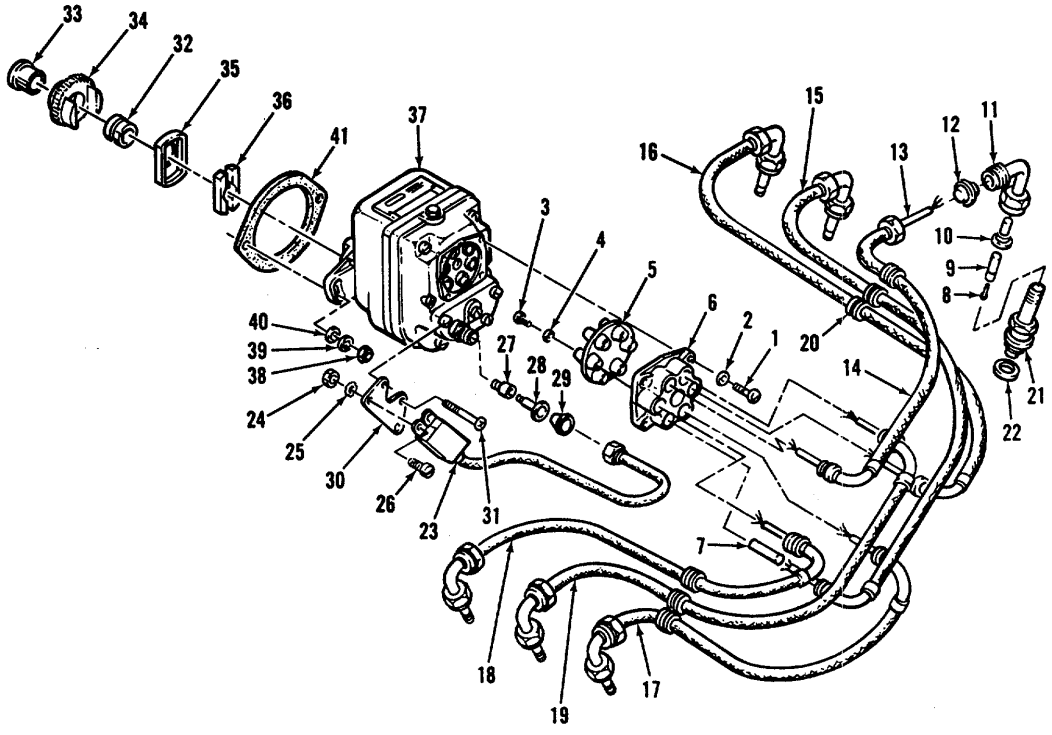
Remove governor as follows: (See figure 4-12.)

a. Remove arm assembly (71) by removing bolts (72) and washers.
b. Remove clevis (73) by removing screws (75), washers, nuts, and bushing (74).
c. Disconnect ball-joint (76) and remove washer.
d. Remove rod assembly (77), nuts, and washers.
e. Remove oil drain adapter (78).
f. Remove spring clip (79) and spring (82) by removing nuts (80) and washers.
g. Remove carburetor-governor arm (81).
h. Remove nipple (83), elbow (85), and hose (84).
i. Remove retaining bolts and governor (70).

4-39. Spark Plugs.

Remove the spark plugs as follows: (See figure 4-13.)

a. Disconnect elbows (11) and pull straight out from spark plugs (21).



1. Screw
2. Lockwasher
3. Screw
4. Washer
5. Grommet
6. Plate
7. Sleeve
8. Pin
9. Sleeve
10. Grommet
11. Elbow
12. Grommet
13. Cable
14. Conduit
15. Conduit
16. Conduit
17. Conduit
18. Conduit
19. Conduit
20. Grommet
21. Spark plug
22. Gasket
23. Filter
24. Nut
25. Lockwasher
26. Screw
27. Spring
28. Plug
29. Grommet
30. Bracket
31. Screw
32. Sleeve
33. Bushing
34. Gear
35. Retainer
36. Bushing
37. Magneto
38. Nut
39. Lockwasher
40. Washer'
41. Gasket

Figure 4-13. Ignition system installation

b. Remove spark plugs (21) and gaskets (22) from engine.

4-40. Magneto.

Remove the magneto as follows: (See figure 4-13.)

a. Remove harness assembly by removing screws (1) and lockwashers (2).
b. Remove magneto (37) by removing nuts (38) lockwashers (39) and washers (40).
c. Remove gasket (41).

441. Starter.

Remove the starter as follows:

a. Disconnect battery cable and ground cable from starter.
b. Remove retaining nuts and washers from mounting flange.
c. Pull starter straight out from mounting studs.

4-42. Carburetor.

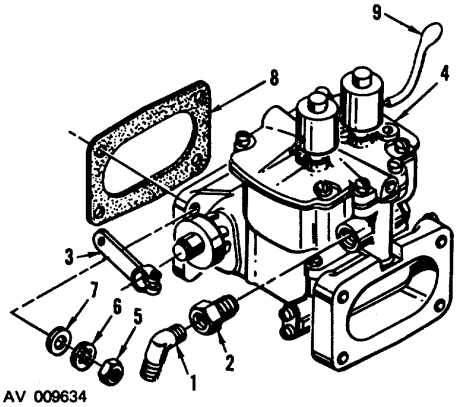
Remove the carburetor as follows: (See figure 4-14.)

a. Disconnect fuel line from elbow (1).
b. Disconnect linkage from lever (3).
c. Disconnect lead wires (9) from solenoids.
d. Remove carburetor (4) by removing nuts (5) and washers (6 and 7).
e. Remove gasket (8).

443. Winterization Assembly.

Remove winterization assembly as follows: (See figure 4-15.)

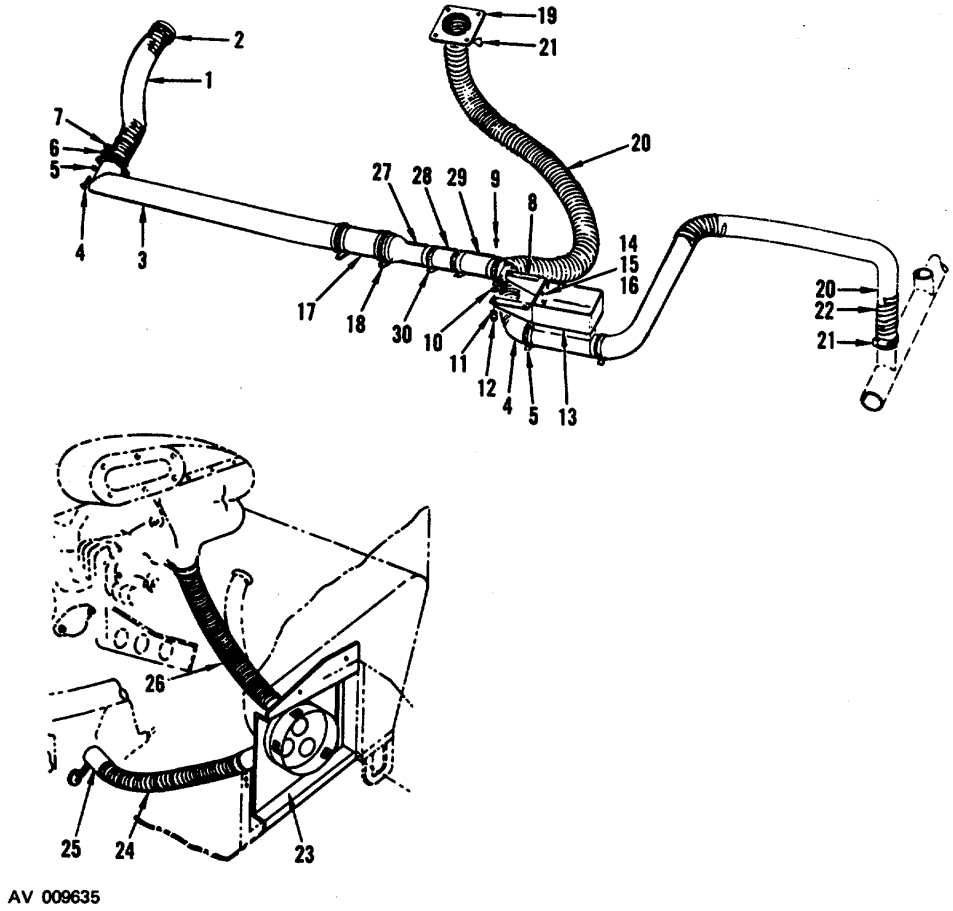
a. Remove duct (1) by removing clamps (2).
b. Remove duct (3) by removing screws (4), washers (5 and 6), nuts (7) and by removing clamp (18) and duct (17).



1. Elbow
2. Adapter
3. Lever
4. Carburetor
5. Nut
6. Washer
7. Washer
8. Gasket
9. Terminal wire

Figure 4-14. Carburetor

c. Remove adapter (27) by removing clamps (30) and duct (28).
d. Remove spout (19) and duct (20) by removing clamps (21).
e. Remove temperature control (13) by removing screws (14) and washers (15 and 16).
f. Remove bracket (8) by removing screws (9), washers (10 and 11), and nuts (12).
g. Remove duct (20) by removing clamps (21).
h. Remove duct (24) by removing clamps and connector (25).
i. Remove duct (26) by removing clamps.
j. Remove manifold (23) by removing screws.



1. Duct	7. Nut	13. Temperature Control	19. Spout	25. Connector
2. Clamp	8. Bracket	14. Screw	20. Duct	26. Duct
3. Duct	9. Screw	15. Washer	21. Clamp	27. Adapter
4. Screw	10. Washer	16. Washer	22. Tape	28. Duct
5. Washer	11. Washer	17. Duct	23. Manifold	29. Tube
6. Washer	12. Nut	18. Clamp	24. Duct	30. Clamp

Figure 4-15. Winterization installation

4-44. Control Box Assembly.

Disassemble the control box assembly as follows: (See figure 4-16.)

a. Remove control box assembly by removing screws (1) and washers.

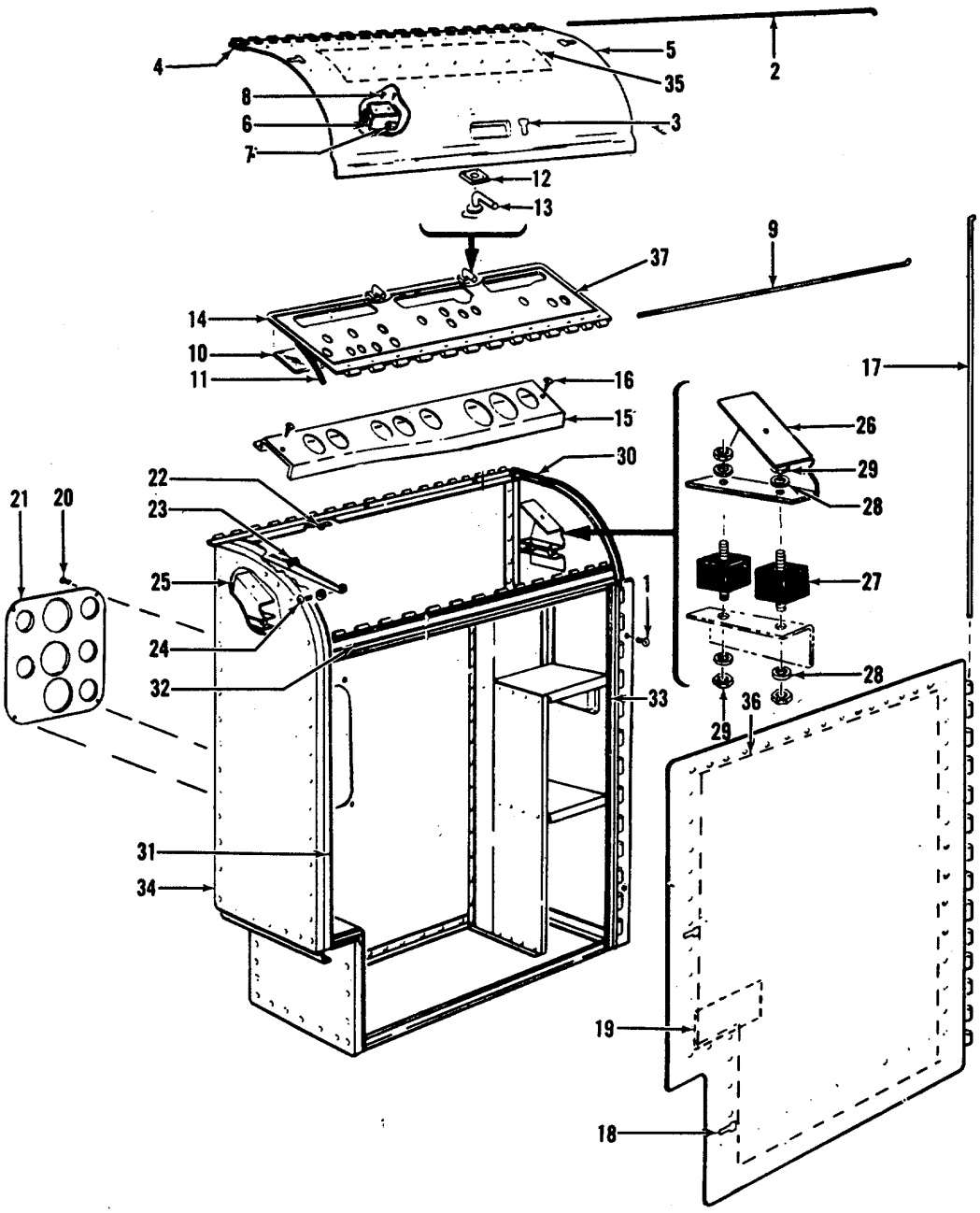
b. Release latches (18) and remove door assembly by removing hinge pin (17).

c. Remove decal (36) from door.

d. Release latches (3) and remove shield (5) by removing hinge pin (2).

e. Remove decal (35) and remove light socket (6) by removing clamps (7), screws (8) and nuts.

f. Release latch handle (13) and remove panel (14) by removing hinge pin (9).



1. Screw
2. Pin
3. Latch
4. Extrusion
5. Shield
6. Socket
7. Clamp
8. Screw
9. Pin
10. Window
11. Seal
12. Cover
13. Handle
14. Panel
15. Support
16. Screw
17. Pin
18. Latch
19. Plate
20. Receptacle
21. Cover
22. Spring
23. Support
24. Screw
25. Bracket
26. Bracket
27. Mount
28. Washer
29. Nut
30. Extrusion
31. Extrusion
32. Extrusion
33. Extrusion
34. Frame
35. Decal
36. Decal
37. Decal

Figure 4-16. Control box assembly

g. Remove decal (37) from panel (14).
h. Remove support assembly (15) by removing screws (16).
i. Remove cover (21) by removing screws (20).
j. Remove brackets (25 and 26) by removing nuts (29) and washers (28).
k. Remove mounts (27) by removing nuts (29) and washers (28).

445. Control Box Cables and Harnesses.

Disconnect the control box cables and harnesses as follows: (See figure 4-17.)

Disconnect connectors or terminals on each end of cable or harness to be removed and remove all the clamps along its entire length then remove the cable or harness.

446. Control Box Equipment.

Remove control box equipment as follows: (See figure 4-18.)

a. Remove oil pressure gage (1) by removing screws (2) and disconnecting leads.
b. Remove tachometer (3) by removing screws (4) and disconnecting leads.
c. Remove temperature gage (5) by removing screws (6) and disconnecting leads.
d. Remove engine hour meter (7) by removing screws (8) and disconnecting leads.
e. Remove frequency meter (87) by removing screws (10) and disconnecting leads.
f. Remove ac voltmeter (9) by removing screws (10) and disconnecting leads.
g. Remove ammeter (11) by removing screws (12) and disconnecting leads.
h. Remove ammeters (15) by removing screws (16) and disconnecting leads.
i. Remove dc voltmeter (13) by removing screws (14) and disconnecting leads.
j. Remove switch (17) by removing screws (18) and disconnecting leads.
k. Remove switch (19) by removing screws (20) and disconnecting leads.
l. Remove lamp (21) and light assembly (22).
m. Remove lamp (23) and light assembly (24).
n. Remove knob (25) and switch (26).
o. Remove switch (27) by removing screws (28) and disconnecting leads.
p. Remove lamp (29) and light assembly (30).
q. Remove circuit breaker (31) by removing screws (32) and disconnecting leads.
r. Remove switch (33) by removing screws (34) and disconnecting leads.
s. Remove regulators (35) and bases (36) by removing nuts (37), washers, and mounts.
t. Disconnect all leads and remove terminal block (39) by removing screws (40) and nuts.
u. Remove relay (42) by removing screws (43) and washers.
v. Remove relays (44) by removing screws (45) and washers.
w. Remove resistors (46) by removing screws (47) and washers.
x. Remove external power receptacle (51) by removing screws (52).
y. Remove terminal block (53) and bus (56) by removing screws (54) and nuts.
z. Remove cable (84) and (85).
aa. Remove bus (63), (94), (65), and (95).
ab. Remove terminal block (59) by removing screws (60) and washers.
ac. Remove terminal block (69) by removing screws (70) and washers.

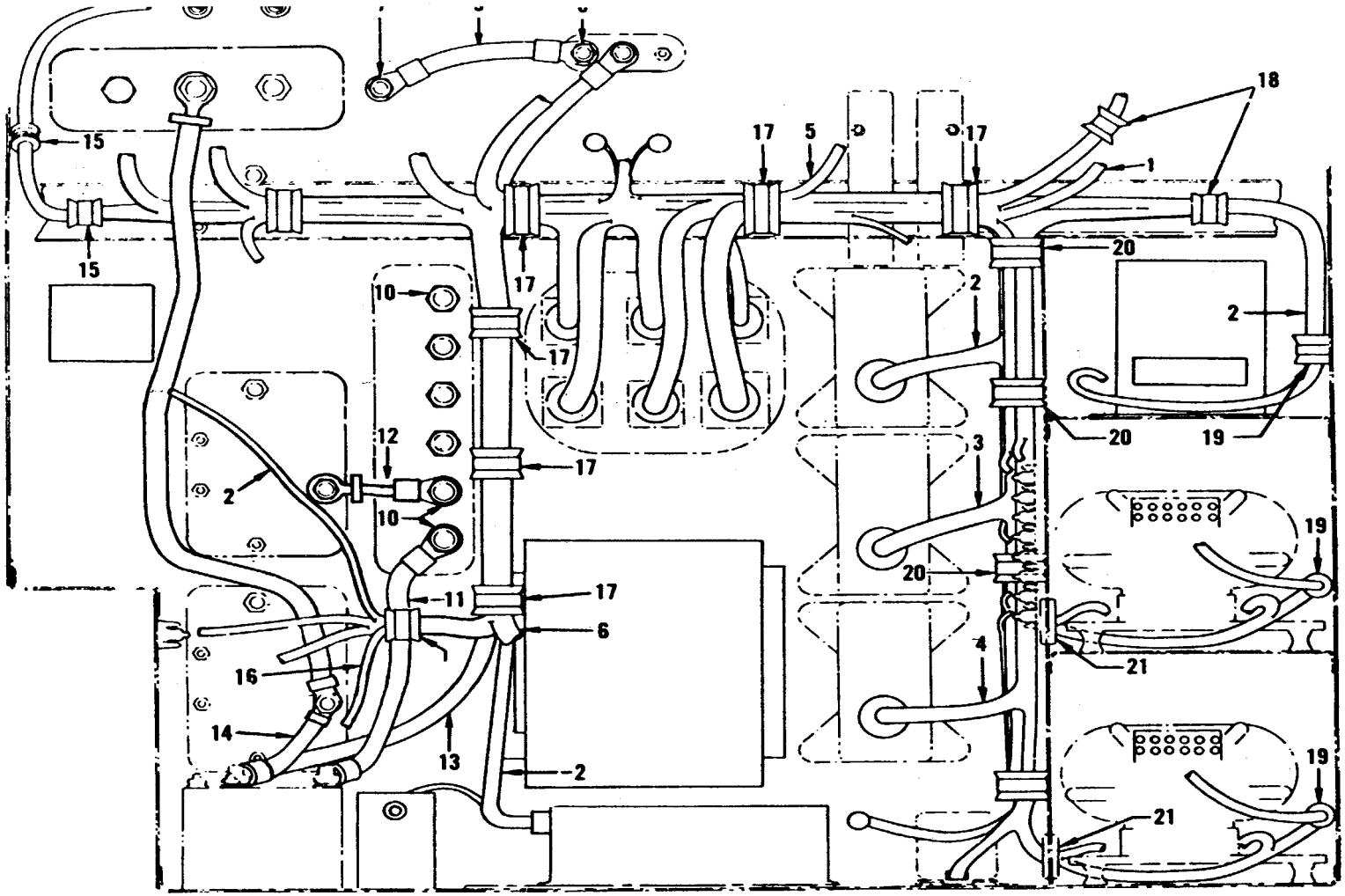


Figure 4-17. Control box wiring and cable installation

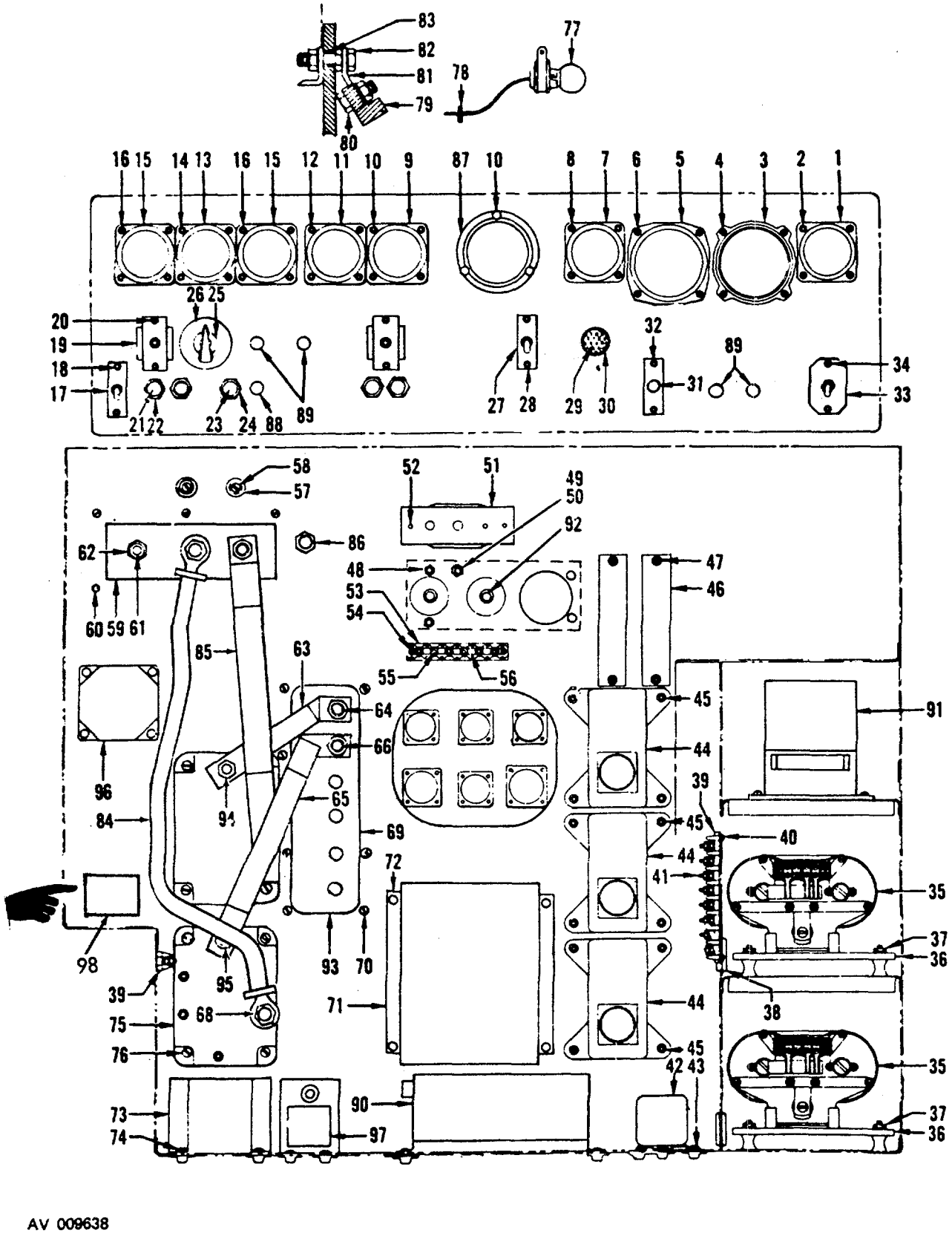


Figure 4-18. Control box equipment, bus installation and A/C lockout relay

1. Gage
2. Screw
3. Tachometer
4. Screw
5. Gage
6. Screw
7. Meter
8. Screw
9. Voltmeter
10. Screw
11. Ammeter
12. Screw
13. Voltmeter
14. Screw
15. Ammeter
16. Screw
17. Switch
18. Screw
19. Switch
20. Screw
21. Lamp
22. Light
23. Lamp
24. Light
25. Knob
26. Switch
27. Switch
28. Screw
29. Lamp
30. Light
31. Circuit breaker
32. Screw
33. Switch
34. Screw
35. Regulator
36. Base
37. Nut
38. Grommet
39. Terminal block
40. Screw
41. Stud
42. Relay
43. Screw
44. Relay
45. Screw
46. Resistor
47. Screw
48. Screw
49. Spacer
50. Screw
51. Receptacle
52. Screw
53. Terminal block
54. Screw
55. Washer
56. Bus
57. Spacer
58. Screw
59. Block
60. Screw
61. Post
62. Bushing
63. Bus
64. Nut
65. Bus
66. Nut
67. Bus
68. Nut
69. Block
70. Screw
71. Regulator
72. Screw
73. Cutout
74. Screw
75. Cutout
76. Screw
77. Lamp
78. Grommet
79. Terminal
80. Bolt
81. Bus
82. Bolt
83. Bushing
84. Cable
85. Bus
86. Stud
87. Meter
88. Plug
89. Plug
90. Transmitter
91. Relay
92. Resistor
93. Block
94. Bus
95. Bus
96. Relay
97. Decal
98. A/C lockout relay

Figure 4-18. Control box equipment and bus installation (Sheet 2 of 2)

ad. Remove regulator (71) by removing screws (71) and washers.

ae. Remove reverse current cutout (73) by removing screws (74) and washers.

af. Remove reverse current cutout (75) by removing screws (76) and washers.

ag. Remove lamp (77).

ah. Remove bus (81) by removing bolt (82), bushing (83), washer, and nut.

ai. Remove frequency transmitter (90) by removing retaining screws and washers.

aj. Remove relay (91).

ak. Remove field flashing resistor (92).

4-47. External Power Box Assembly.

Removal of the external power receptacle is accomplished by the removal of control box equipment, paragraph 4-46.

4-48. Engine Chassis and Harness Assembly.

Remove engine chassis harness assemblies and cables as follows: (See figure 4-19).
a. Remove cables (1 thru 4) by disconnecting terminal lugs on both ends and removing all clamps and grommets along their entire lengths.

b. Remove block (5) and insulator (6) by removing screws (7), washers, and nuts.

c. Disconnect electrical receptacles and remove harness (8) by removing

screws (9), washers, and nuts

d. Remove circuit breaker (10) by removing screws (11) and disconnecting leads.

e. Remove cable assemblies (18, 19 and 20) by disconnecting terminal lugs on both ends and removing all clamps and grommets along their entire lengths.

f. Remove cable assembly (21) by disconnecting terminal lugs on both ends, removing all clamps and grommets along its entire length and by removing bolt (22), washers, and nuts.

g. Remove harness (24) by disconnecting all terminal lugs on both ends and removing all clamps and grommets along its entire length.

h. Remove cable (25) by disconnecting terminal lugs from contactor (27) and removing clamp (26).

i. Disconnect cables (44, 45, and 46) from contactor (27) and remove contactor.

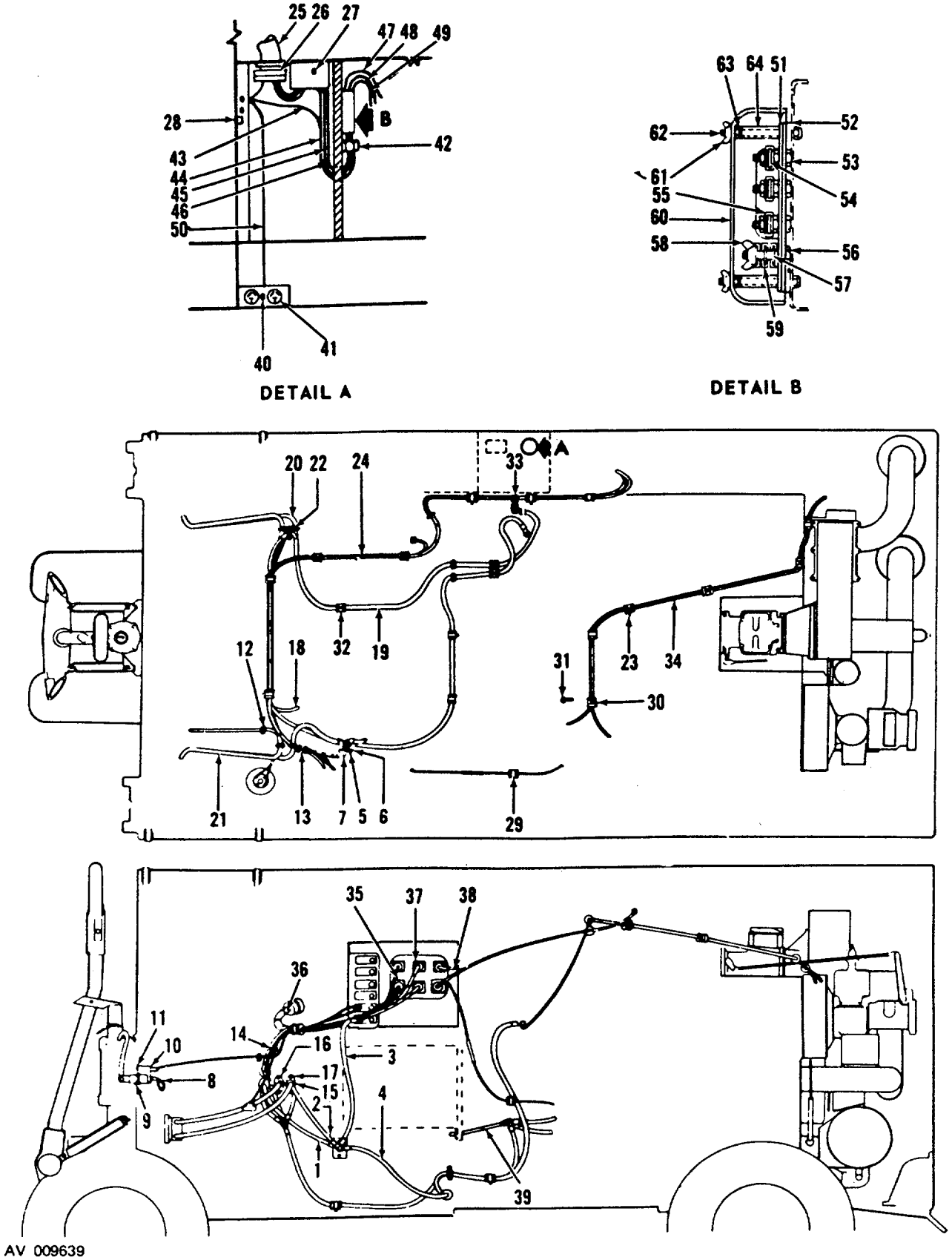


Figure 4-19. Engine and chassis harness installation (Sheet 1 of 2)

1. Cable
2. Cable
3. Cable
4. Cable
5. Block
6. Insulator
7. Screw
8. Harness
9. Screw
10. Circuit breaker
11. Screw
12. Grommet
13. Clamp
14. Grommet
15. Grommet
16. Retainer
17. Stud
18. Cable
19. Cable
20. Cable
21. Cable
22. Bolt
23. Clamp
24. Harness
25. Cable
26. Clamp
27. Contactor
28. Block
29. Clamp
30. Clamp
31. Screw
32. Clamp
33. Stud
34. Harness
35. Harness
36. Harness
37. Screw
38. Harness
39. Strap
40. Circuit breaker
41. Receptacle
42. Transformer
43. Cable
44. Cable
45. Cable
46. Cable
47. Cable
48. Cable
49. Cable
50. Cable
51. Base
52. Plate
53. Bolt
54. Nut
55. Limiter
56. Bolt
57. Spacer
58. Nut
59. Spacer
60. Cover
61. Nut
62. Bolt
63. Nut
64. Spacer

Figure 4-19. Engine and chassis harness installation (Sheet 2 of 2)

j. Disconnect and remove cables (44, 45, and 46) from current limiter (55).
k. Remove transformer (42) by removing screws and washers.
l Disconnect cables (47, 48, and 49) from current limiter (55).
n. Remove current limiter (55).
n. Remove terminal block (28).
o. Remove harness (31) by disconnecting electrical connector and removing screws, washers, and nuts.
p. Remove harness (35).
q. Remove harnesses (36).
r. Remove harness (38).
s. Remove ground strap (39).
t. Remove circuit breaker (40) and receptacle (41).

4-49. Cable Compartment.

Remove equipment from cable compartment as follows: (See figure 4-20.)

a. Remove bus (1 and 2) by removing screws (3), washers, and nuts (4).
b. Remove clamp (5) by removing bolts (6), washers, and nuts.
c. Remove clamp (7) by removing bolts (8) and washers.
d. Remove clamp (9) by removing bolts (10), washers, and nuts.
e. Remove cable (13) by removing bolts (14), washers, nuts (16), screws (15), washers, and nuts (17).
f. Remove cable (18) by removing nuts and washers.
g. Remove cables (19, 20, and 21).
h Remove harness (22) by removing connector, adapter, and terminal lugs.
i Remove bus (23, 24, and 25) by removing bolt (26), washers, and nut.
j. Remove bushing (28), washers, and nuts.
k. Remove shunt (29) by removing screws (30) and washers.
l Remove bus (31 and 32).
m Disconnect terminal lugs and remove cables (33 and 34).
n. Remove shunt (35) by removing screws (36) and washers.

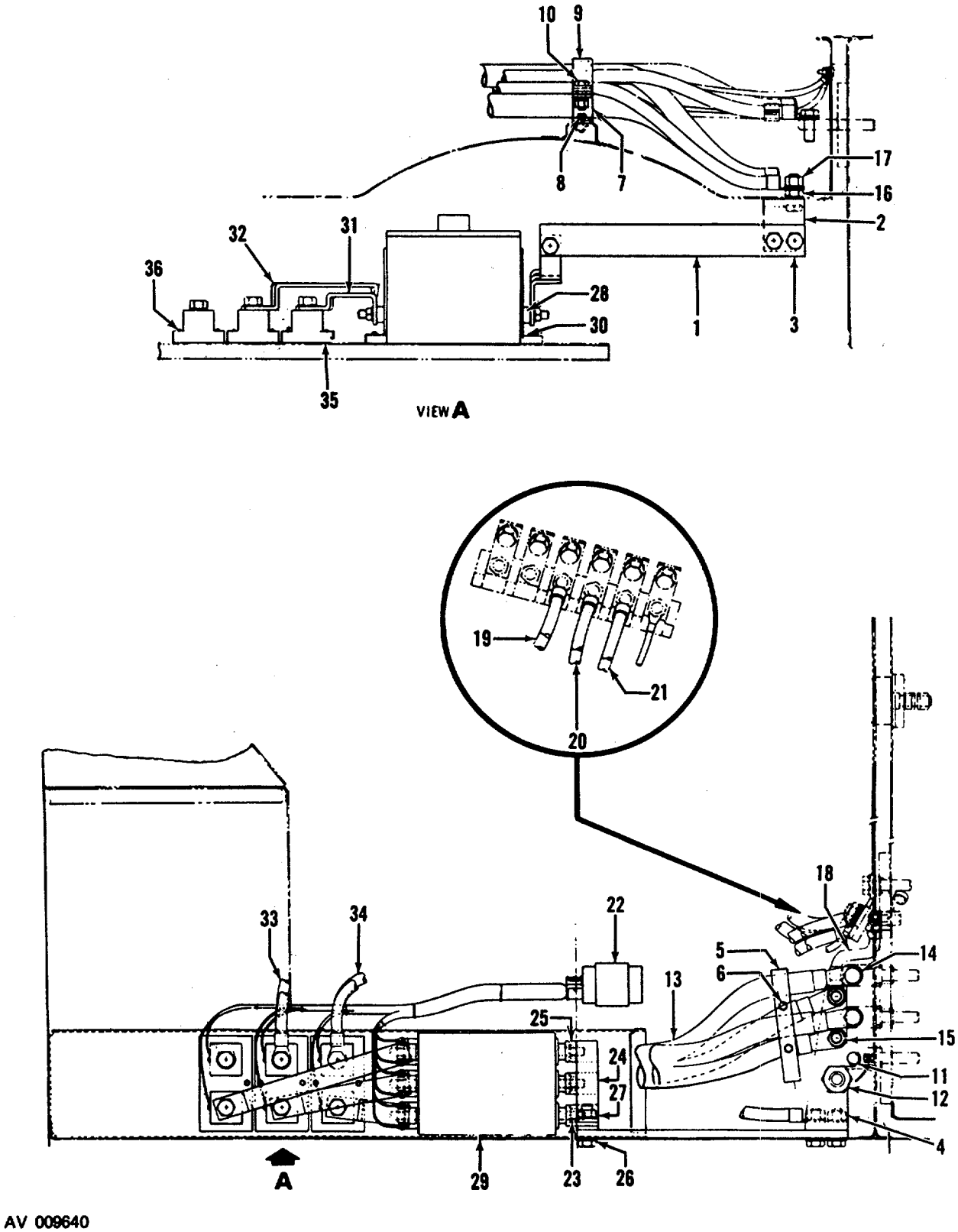


Figure 4-20. Cable compartment bus and shunt installation (Sheet 1 of 2)

1. Bus
2. Bus
3. Screw
4. Nut
5. Clamp
6. Bolt
7. Clamp
8. Bolt
9. Clamp
10. Bolt
11. Bolt
12. Bolt
13. Cable
14. Bolt
15. Screw
16. Nut
17. Nut
18. Cable
19. Cable
20. Cable
21. Cable
22. Harness
23. Bus
24. Bus
25. Bus
26. Bolt
27. Nut
28. Bushing
29. Shunt
30. Screw
31. Bus
32. Bus
33. Cable
34. Cable
35. Shunt
36. Screw

Figure 4-20. Cable compartment bus and shunt installation (Sheet 2 of 2)

4-50. Cleaning.

All items removed in disassembly must be cleaned prior to reassembly; clean all items in accordance with chapter 3 paragraph 3-15.

4-51. Repair Instructions.

4-52. Dolly Assembly.

Repair of the dolly assembly and its components consists of replacement of damaged or inoperative parts.

4-53. Power Distribution Compartment.

Repair of the power distribution compartment consists of replacement of components and repair of power cables. Refer to paragraph 4-67 for repair of power cables.

4-54. Muffler Assemblies.

Repair of muffler assemblies consists of replacement of asbestos liners. Repair muffler as follows: (See figure 4-6.)

a. Remove mufflers (11), and (20).
b. Remove nuts (32), screws, and washers.
c. Remove wire (31), holding liner inside muffler.
d. Remove liner (30) and clean inside of muffler.
e. Install new liner and replace wire holder.
f. Replace screws and washers by inserting them from the inside of muffler out and install toe ring nuts.
g. Reinstall mufflers.

4-55. Rear Wheel Assembly.

Repair of the rear wheel assembly consists of replacement of parts and repair of tire and tube. Refer to paragraph 4-56 for repair of tire and tube.

4-56. Tire and Tube.

Repair tire and tube as follows: (See figure 4-7)

a. Remove wheel by removing nuts (28).
b. Remove nuts (31) and bolts (32) and separate shells (29 and 30).
c. Remove tube (35) from inside of tire (34).
d. Check tire thoroughly inside and outside for sharp objects which may have punctured the tube. Remove any sharp objects found.
e. Overinflate tube and check for air leakage at valve core. Check tube for punctures.
f. Replace leaking valve core. Deflate tube and patch any punctures found during inspection.
g. Place tube (35) in tire (34).
h. Install shell (29) and feed valve stem through hole in shell.
i. Install shell (30), bolts (32) and nuts (31).
j. Inflate tire and install on hub using nuts (28).

4-57. Tow Bar Tube.

Repair of the tow bar tube consists of straightening if bent and welding if cracked or broken. Remove tow bar eye and tow bar end fitting and repair tow bar as necessary. If welded, grind and sand until smooth and repaint.

4-58. Differential Assembly.

Repair of the differential assembly consists of replacement of the coupling drive handle and repair of cables, harnesses and wires. Refer to paragraph 4-66 for repair of cables, harnesses and wires.

4-59. Fuel Tank.

Fill tank to overflowing with water. Empty tank and seam weld or patch weld as necessary. Allow tank to cool before using.

4-60. Fuel Lines. Repair of fuel lines consists of replacement of tubing sections.

4-61. Engine Mounting Bolts, Bushings, and Retainers.

Repair of the engine mounting bolts, bushings and retainers consists of replacement of the defective component.

4-62. Starter.

Repair of the starter consists of replacement of the brushes under the cover band.

4-63. Carburetor.

Repair of the carburetor consists of cleaning the air filter screen. Refer to paragraph 3-22.

4-64. Winterization Assembly.

Repair of the winterization assembly consists of replacement of defective components.

4-65. Control Box Assembly.

Repair of the control box assembly consists of replacement of defective components and repair of cables and harnesses. Refer to paragraph 4-66 for repair of cables and harnesses.

4-66. Electrical Wiring Harnesses and Cable Assemblies.

Repair harnesses and cables as follows:

a. Splice broken or cut wires, provided another splice is not within 10 feet on same wire.

NOTE

Stagger splices in wire bundles. When staggering is not possible, use extra wiring supports.

b. Wrap frayed, chafing or damaged wires (not to extent that replacement is required) with protective covering. Use insulating tape (item 21, table 1-2) or insulating sleeving (item 22, table 1-2). Secure sleeving to wire or cable by tying each end with cord (item 23, table 1-2).
c. Solder loose wires in connector pins.
d. Tie or lace wire bundles or wire groups tight enough to prevent slipping, but not so tight that the cord cuts into or deforms wire insulation. (See figure 4-21.)

4-67. Lubrication.

Lubrication requirements to be accomplished during reassembly are indicated in the appropriate reassembly procedure. For general lubrication information, refer to Chapter 3, Section IV. (See figure 3-6.)

4-68. Testing.

The only testing required of disassembled parts is visual inspection. Inspect parts as follows:

4-69. Rubber Parts.

a. Inspect power cables for cuts, breaks, badly worn sections, frayed ends, loose or corroded connector heads.
b. Inspect tires and tubes for cuts, breaks, rim damage, nail holes and wear. If tubes are satisfactory, apply talcum and reuse.

4-70. Precision Machined Parts.

Inspect all antifriction bearings for broken or scuffed balls, damaged races or retainers. Inspect for evidence of excessive heat or wear, corrosion or brinelling. Oil bearings with light oil and spin to see that they run smoothly. Bearings may be considered satisfactory as long as they turn smoothly and appear in good condition.

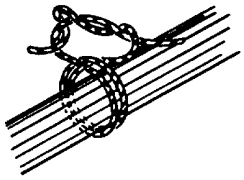
4-71. Aluminum and Magnesium Parts.

Inspect all aluminum and magnesium parts for cracks, corrosion or deterioration.

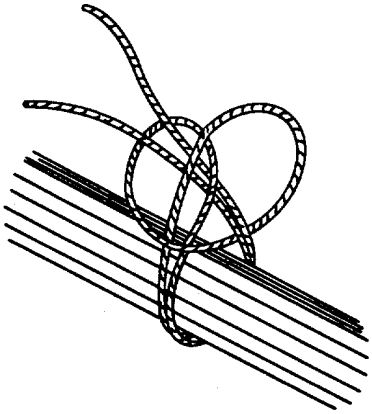
4-72. Steel Parts. Inspect steel parts for rust, corrosion, cracks, or excessive wear.

NOTE

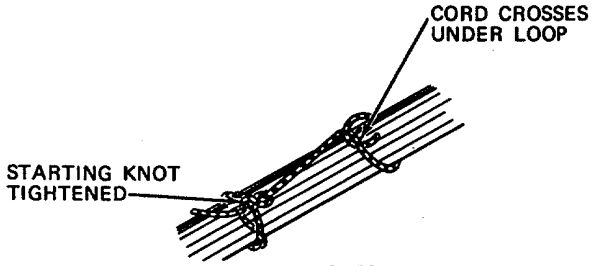
All steel parts that are of a critical nature shall be checked for cracks by magnetic particle inspection methods.



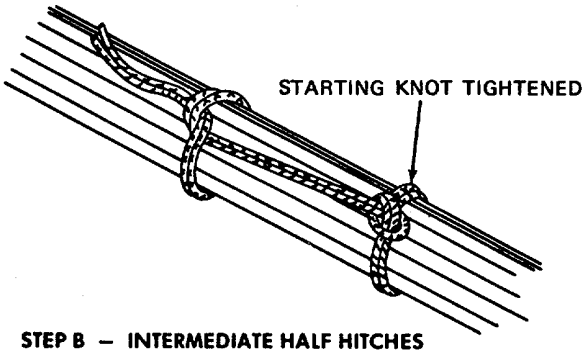
STEP A STARTING KNOT



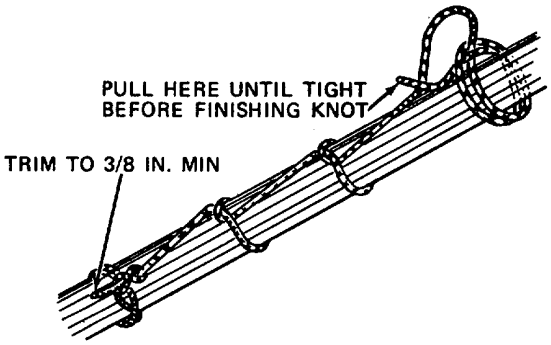
STEP A — STARTING KNOT - BOWLINE ON A BIGHT



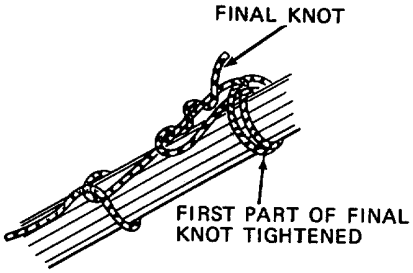
STEP B INTERMEDIATE HALF HITCHES



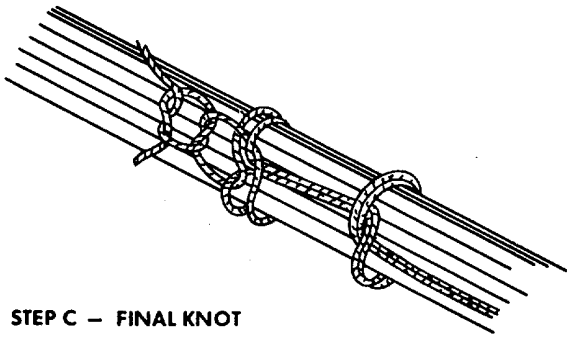
STEP B — INTERMEDIATE HALF HITCHES



STEP C (PART I)



STEP C (PART II) — FINAL KNOT



STEP C — FINAL KNOT

SINGLE CORD LACING

(WIRE BUNDLES UNDER 1 INCH DIAMETER)

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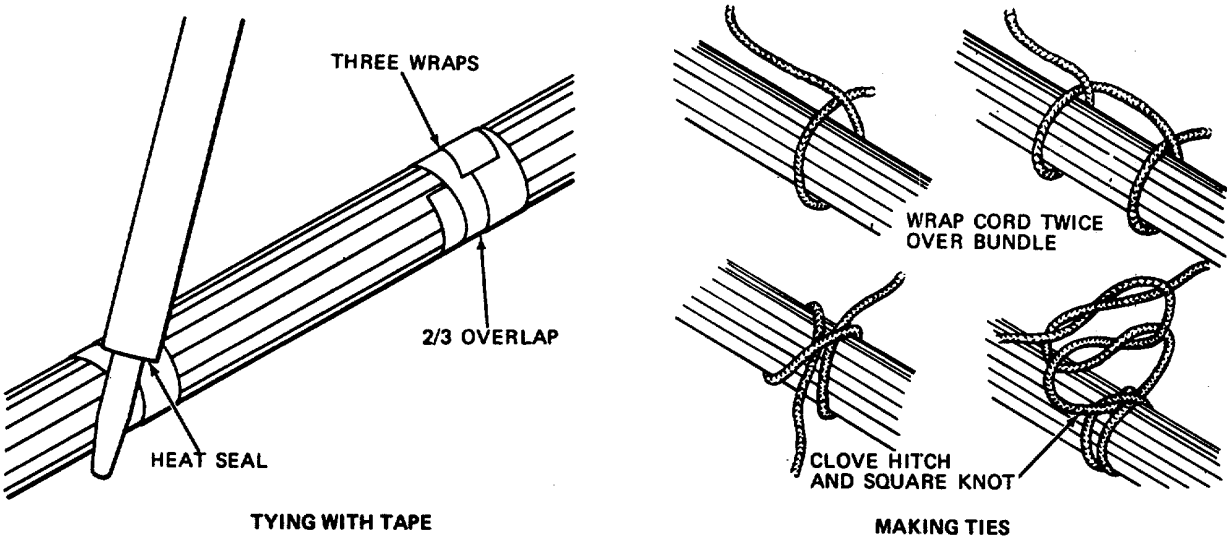
DOUBLE CORD LACING

(WIRE BUNDLES OVER 1 INCH DIAMETER)

Figure 4-21. Lacing and tying wire bundles (Sheet 1 of 2)



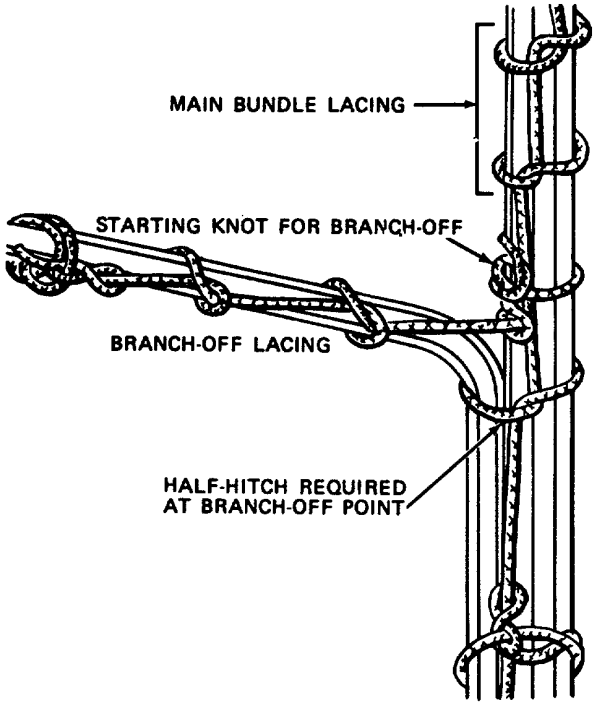


Figure 4-21. Lacing and tying wire bundles (Sheet 2 of 2)

4-73. Studs and Cap Screws.

Inspect all studs and cap screws for thread damage, distortion, breaks and excessive wear.

4-74. Electrical Parts.

a. Voltage-current regulators, circuit breakers, relays, and similar electrical parts should only be inspected for loose or broken terminals, cracked cases, corrosion or excessive heating.
b. Check electrical wiring for frayed or damaged insulation.
c. Inspect all electrical wire connections for corrosion or inadequate contact.

4-75. Sheet Metal Parts and Assemblies.

a. Inspect for dents, cracks, corrosion, loose rivets, and other damage.
b. Inspect exhaust augmentors for burning of either the stack or screen.
c. Inspect snap fasteners, catches and hinges for damage.
d. Inspect the fuel tank and fuel lines for dents-and other obvious defects.

Section IV. REASSEMBLY AND ALIGNMENT

4-76. Reassembly.

4-77. Dolly Assembly.

Reassemble dolly assembly as follows: (See figure 44.)

a. Install lug (35), bushing (36), bolt (37), washer (38), nut (39) and pin (40).
b. Install door (33) and hinge pin (34).
c. Install door (30), hinge pin (31), and screws (32).
d. Install bracket (29).
e. Install mount (27) and bracket (28).
f. Install manifold (20) using bolts (22), bolts (21), washers, and nuts.
g. Install switch (25) using screw (26), washer, and nut.
h. Install cover (23) using screws (24) and washers.
i. Install door (16), clips (19), and hinge pin (17).
j. Install springs (15) and secure latches (18).
k. Install door (11), clips (14), and hinge pin (12).
l. Install springs (10) and secure latches (13).
m. Install screen (8) using screws (9).
n. Install doors (I and 2) and hinge pins (3).
o. Install holder (6) using screws (7) and nuts. Secure latches (4).

478. Upper Structure Assembly.

Reassemble and install the upper structure assembly as follows: (See figure 4-5.)

a. Install rubber extrusions (19 and 20).
b. Install screen (18), door (15), pin (16) and secure latches (17).
c. Install door (13) using screws (14).
d. Install door (11) using screws (12).
e. Install cover (10) by securing turnlock studs and pins (8 and 9).
f. Install switches (6 and 7).
g. Install panel (2) using clamps (1), washers, nuts, and screws (3).

h. Install upper structure assembly using bolts (22) and washers.

4-79. Power Distribution Compartment.

Connect the ac power cable and two dc power cables. (See figure 1-6.)

4-80. Upper Aft Hood Assembly.

Reassemble and install the upper aft hood assembly as follows: (See figure 4-6.)

a. Install liners (30) and retainers (31) in mufflers (11 and 20) using screws (32), washers, and nuts.
b. Install mufflers (11 and 20) using nuts (19 and 28), washers (17, 18, 26 and 27), screws (16 and 25), nuts (15 and 24), washers (13, 14, 22 and 23), and screws (12 and 21).
c. Install doors (4 and 7) using hinge pins (5 and 8) and springs (3); secure latches (6 and 9).
d. Install hood assembly and secure hinges (1) at rear of dolly.
e. Close hood and secure latches (10).

4-81. Rear Wheel Assembly.

Reassemble the rear wheel assembly as follows: (See figure 4-7.)

a. Install axle (36) and aft ends of springs (20) using bolts (14), washers (15 and 16), bushing (17), nuts (19), and pin (18).
b. Raise forward ends of springs (20) into position and install bolts (6 and 7), washers (7 and 8), shackles (9), bushings (10 and 11), nuts (13), and pin (12).
c. Install "U" bolts (1) and plates (2) using nuts (4), and washers (3).
d. Install race and bearing (26) and seal (27) into hub (24). Lubricate with grease (item 19, table 1-2).
e. Install hub (24), race and bearing (25). Lubricate with grease (item 19, table 1-2) and secure with washer (21) and nut (23). Tighten nut (23) until there is no side play in bearing but hub turns freely. Back off nut to nearest castillation and install pin (22).
f. Install cap (33).
g. Install tube (35) into tire (34).
h. Install shells (29 and 30) into tire.
i. Install nuts (31) and bolts (32) and inflate tire.
j. Install wheel on hub using nuts (28).

4-82. Front Wheel Drive Assembly.

Reassemble the front wheel drive assembly as follows: (See figure 4-8.)

a. Install handle (1) onto shaft (12).
b. Install shaft (12) into cap (5) and secure with stop (14), spring (13), coupling (15), washer (16) and nut (17).
c. Install grease seal (17) and retaining ring (10).
d. Install axle (11) and install snap rings (8).
e. Install bearing cap (21) using bolts (23) and washers (24).
f. Assemble wheel if disassembled and install. (Refer to paragraph 4-83. Assembly of front and rear wheels is identical.)
g. Install wheel cap (5) using screws (3) and washers (4).
h. Install pan (65) and gasket (68) using screws (66) and washers (67). Install plug (69).
i. Install switch (151) on cover plate (153) using screws (152) and washers. Connect electrical leads to switch and install switch and plate on tow bar eye using screws (154) and washers (155).
j. Install bus (120), pins (117), switches (118), bushings, shafts (115) and springs (116).
k. Connect electrical leads to microswitches and slide switches into housing (20), install screws (121) and nuts 2 and install lid (125).
l. Install coupling on spur gear (35).

m. Install motor (164) using bolts (165) and washers (166).
n. Install relay support(91), bolts (92), spacers (93), and resistors (104 and 105). Connect electrical leads to resistors.
o. Install resistors (104 and 105) and insulators (94, 99) using bolts (95, 100, and 106), washers (96, 97, 101, 102, 107, and 108) and nuts (98, 103, and 109); install harness (87), clamp (90), shield (110), and cover (167) using nuts (114, and 171), washers (112, 113, 169, 170) and bolts (111 and 168); install motor controller (167) using bolts and washers (173 and 174); install ground strap (158) and connect electrical leads to motor controller.
p. Install screws (72), washers (73), brake catch adapter (71), gasket (177), retainer ring (74), bearing (75), bracket (78), bearing (77), and pin (86).
q. Position front wheel drive assembly on dolly and install plate (83), nuts (81), and washers (82).
r. Connect electrical connector (89).
s. Service front drive differential and lower dolly from jack or hoist.

4-83. Fuel Tank Assembly.

Install fuel tank as follows: (See figure 4-9.)

a. Install cap (8), gasket (11), and chain (10) by attaching hook (9).
b. Install fuel filter (16) using plate (17), nut (19), gasket (15), sump (12), and nuts (14).
c. Install fuel gage assembly (7).
d. Install fuel tank on dolly assembly using fuel tank straps (1), turnbuckle assemblies (2, 3, 4) and pins (5 and 6).
e. Connect fuel supply tube and drain tube to fuel tank.

4-84. Fuel Lines.

Reassemble fuel lines as follows: (See figure 4-10.)

a. Install valve (28), elbow (29) and tubes (27).
b. Install elbow (29).
c. Install elbow (30), grommet (24) and tube (26).
d. Install unions (22 and 23) in valve (19).
e. Install valve (19) using screws (20), washers and nuts. Install elbow (21).
f. Install elbow (18) and tube (15) using screws (17), washers, nuts, and clamps (16).
g. Connect union (14) and install tube (10) using screws (12), nuts, washers, and clamps (11).
h. Connect union (8) and install tube (1) using screw, (4 and 5), washers, nuts, clamps (2 and 3), and spacers (6 and 7).

4-85. Battery System.

Assemble the battery system and install the batteries as follows: (See figure 4-11.)

a. Install hose (40), tubing (21), clamp (22), adapter(46), tee (45) and elbows (38 and 43).
b. Install clamps (41 and 47).
c. Install elbows (14).
d. Install tubes(l3).
e. Place batteries into battery cases.
f. Install cover (8), bolts (4), forks (3), rods (2), nuts (5 and 6), and washers (7).
g. Install battery connectors (12) using screws (10) and washers (11).
h. Install tubes (15 and 16) using screws (17), washers (18 and 19), and nuts (20).
i. Install valve assembly (23) on tube (15).

4-86. Engine.

Install the engine as follows: (See figure 4-12.)

a. Lower engine into dolly and align with engine mounts and install engine mounting bolts. Disconnect hoist from hoist ring (13).
b. Connect flexible gas lines to heater, heater blower engine, main engine, and fuel pump.

c. Connect hot air duct between heater and dolly
d. Connect hot air duct to engine shroud.
e. Connect ducts (44 and 48) to generators (30) using clamps (45 and 49).
f. Connect battery cable and front drive cable to terminal block.
g. Connect cables and control wires to generators (30).
h. Connect cables and control wires to alternator (32).

4-87. Generators.

Install generators as follows: (See figure 4-12.)

a. Insert generator (30) on mounting pad.
b. Install nuts (31) and washers.
c. Connect electrical cable and duct (44 or 48) using clamp (45 or 49).

4-88. Alternator.

Install alternator as follows: (See figure 4-12.)

a. Insert alternator (32) on mounting pad.
b. Install nuts (33) and washers (34 and 35).
c. Connect electrical leads to alternator.

4-89. Fan Assembly.

Install blower fan and components as follows: (See figure 4-12.)

a. Install manifold.
b. Install manifold pressure switch and connect electrical leads.
c. Connect ducts (44, 46, and 48) using clamps (45, 47, and 49).
d. Connect electrical wiring to terminals located in power distribution compartment.
e. Install bolts (20).
f. Install frame holding protective screen.

4-90. Governor.

Install governor as follows: (See figure 4-12.)

a. Install governor (70) and retaining bolts.
b. Install nipple (83), elbow (85), and hose (84).
c. Install carburetor-governor arm (81).
d. Install spring clip (79) and spring (82) using nuts (80) and washers.
e. Install oil drain adapter.
f. Install rod assembly (77), nuts and washers.
g. Install washer and connect ball joint (76).
h. Install clevis (73) using screws (75), washer, nuts, and bushing (74).
i. Install arm assembly (71) using bolts (72) and washers.

4-91. Spark Plugs.

Install spark plugs as follows: (See figure 4-13.)

a. Install spark plug (2) and gasket (3).
b. Tighten spark plug to a torque of 300-360 inch-pounds.
c. Connect connector (1) to spark plug (2).

4-92. Magneto.

Install the magneto as follows: (See figure 4-13.)

a. Install gasket (11) and magneto (7) using nuts (8) and washers (9 and 10).
b. Install harness assembly (4) using screws (5) and washers (6).

4-93. Starter.

Install the starter as follows:

a. Insert starter into housing and align hole in mounting flange with studs on housing.
b. Install retaining nuts and washers on studs.
c. Connect battery cable and ground cable.

4-94. Carburetor.

Install carburetor as follows: (See figure 4-14.)

a. Install gasket (8) and carburetor (4) using nuts (5) and washers (6 and 7).
b. Connect wires (9) to solenoids.
c. Connect linkage to lever (3).
d. Connect fuel line to elbow (1).

4-95. Winterization Assembly.

Install the winterization assembly as follows: (See figure 4-15.)

a. Install manifold (23) using screws.
b. Install duct (26) using clamps.
c. Install connector (25) and duct (24) by installing clamps.
d. Install duct (20) using clamps (21).
e. Install bracket (8) using screws (9), washers (10 and 11) and nuts (12).
f. Install temperature control (13) using screws (14) and washers (15 and 16).
g. Install spout (19) and duct (20) using clamps (21).
h. Install duct (28) and adapter (27) using clamps (30).
i. Install duct (17), clamp (18), and duct (3) using screws (4), washers (5 and 6), and nuts (7).
j. Install duct (1) using clamps (2).

4-96. Control Box Assembly.

Assemble and install the control box assembly as follows: (See figure 4-16.)

a. Install mounts (27) using nuts (29) and washers (28).
b. Install brackets (25 and 26) using nuts (29) and washers (28).
c. Install cover (21) using screws (20).
d. Install support assembly (15) using screws (16).
e. Install decal (37) on panel (14).
f. Install panel (14) using hinge pin (9) and secure latch handle (13).
g. Install decal (35) and light socket (6) using clamps (7), screws (8), and nuts.
h. Install shield (5) using hinge pin (2). Secure latches (3).
i. Install decal (36).
j. Install door assembly using hinge pin (17) and secure latches (18).
k. Install control box assembly using screws (1) and washers.

4-97. Control Box Cables and Harnesses.

Route harness or cable being installed between the points of connection. Connect the terminals or connectors at the ends and install clamps and grommets along its length. (See figure 4-17.)

4-98. Control Box Equipment.

Install control box equipment as follows: (See figure 4-18.)

a. Install field flashing resistor (92).
b. Install relay (91).
c. Install frequency transmitter (90).
d. Install bus (81) using bolt (82), bushing (83), washer and nut.

e. Install lamp (77).
f. Install reverse current cutout relay (75) using screws (76) and washers.
g. Install reverse current cutout relay (73) using screws (74) and washers.
h. Install regulator (71) using screws (72) and washers.
i. Install terminal block (69) using screws (70) and washers.
j. Install terminal block (59) using screws (60) and washers.
k. Install bus (63), (65), and (95).
l. Install cable (84) and bus (85).
m. Install terminal block (53) and bus (56) using screws (54) and nuts.
n. Install external power receptacle (51) using screws(52).
o. Install resistors (46) using screws (47) and washers.
p. Install relays (44) using screws (45) and washers.
q. Install relay (42) using screws (43) and washers.
r. Install terminal block (39) using screws and nuts(40). Connect all leads.
s. Install regulator bases (36) and regulators (35)using nuts (37), washers, and mounts.
t. Install switch (33) using screws (34).
u. Install circuit breaker (31) using screws (32).
v. Install light assembly (30) and lamp (29).
w. Install switch (27) using screws (28).
x. Install switch (26) and knob (25).
y. Install light assembly (24) and lamp (23).
z. Install light assembly (22) and lamp (21).
aa. Install switch (19) using screws (20).
ab. Install switch (17) using screws (18).
ac. Install dc voltmeter (13) using screws (14).
ad. Install ammeters (15) using screws (16).
ae. Install ammeter (11) using screws (12).
af. Install ac voltmeter (9) using screws (10).
ag. Install frequency meter (87) using screws (10).
ah. Install engine hour meter using screws (8).
ai. Install temperature gage (5) using screws (6).
aj. Install tachometer (3) using screws (4).
ak. Install oil pressure gage (1) using screws (2).

4-99. External Power Box Assembly.

Installation of the external power receptacle is accomplished by the installation of control box equipment. (See figure 4-17.)

4-100. Engine Chassis and Harness Assembly.

Install engine chassis harness assemblies and cables as follows: (See figure 4-19.)

a. Install circuit breaker (40) and receptacle (41).
b. Install ground strap (39).
c. Install harnesses (38, 36, 35, and 31).
d. Install terminal block (28).
e. Install current limiter (55).
f. Connect cables (47, 48, and 49) to current limiter (55).
g. Install transformer (42).
h. Install and connect cables (44, 45, and 46) to current limiter (55).
i. Install contactor (27) and connect cables (44, 45, and 46).

j. Install and connect cable (25) to contactor (27) and install clamp (26).
k. Install harness (24).
l. Install cable assembly (21).
m. Install cable assemblies (18, 19, and 20).
n. Install circuit breaker (10) using screws (11).
o. Install harness (8) using screws (9). Connect electrical receptacles.
p. Install block (5) and insulator (6) using screws (7), washers and nuts.
q. Install cables (1 thru 4).

4-101. Cable Compartment.

Install equipment in cable compartment as follows: (See figure 4-20.)

a. Install shunt (35) using screws (36).
b. Install cables (33 and 34).
c. Install bus (31 and 32).
d. Install shunt (29) using screws (30).
e. Install bushing (28), washers and nuts.
f. Install bus (23, 24, and 25) using bolt (26), washers, and nut.
g. Install harness (22), connector, adapter, and terminal lugs.
h. Install cables (19, 20, and 21).
i. Install cable (18).
j. Install cable (13) using bolts (14), washers, nuts (16), screws (15), washers, and nuts (17).
k. Install clamp (9) using bolts (10), washers, and nuts.
I. Install clamp (7) using bolts (8) and washers.
m. Install clamp (5) using bolts (6), washers and nuts.
n. Install bus (1 and 2) using screws (3), washers and nuts (4).

4-102. Alignment.

4-103. Spark Plugs.

Alignment of the spark plugs consists of setting the electrode gap at 0.035.

4-104. Governor.

To adjust governor for time base governed-operation and sensitivity perform the following:

a. Warm generator set up in the normal manner.
b. Set governor speed adjustment as follows:
    (1) Place hand throttle in full open position (all way in). Place ac power control switch to the reset position until ac voltage stabilizes at 115 volts.
    (2) Check frequency indicator by pressing test button; indicator should read 400 cycles; if not, continue to hold button down and turn knob on frequency meter transmitter until 400 cycle reading is obtained, release test button.
    (3) If frequency indicator does not indicate 400 cycles plus or minus 1 cycle adjust governor speed by turning speed setting adjustment screw on front of governor (6, figure 4-22). Turn screw clockwise to increase engine rpm and counterclockwise to decrease rpm. Increasing engine rpm will increase frequency and decreasing engine will decrease frequency.
c. Adjust governor for timebase governed-operation as follows:
    (1) Loosen screw (2, figure 4-22), and raise droop adjustment arm to top position and tighten screw.
    (2) Set speed as outlined in step b.
    (3) Apply various loads from no load to 45 kw, wait approximately 5 seconds and observe frequency indicator reading. Frequency reading should be the same for all loads.

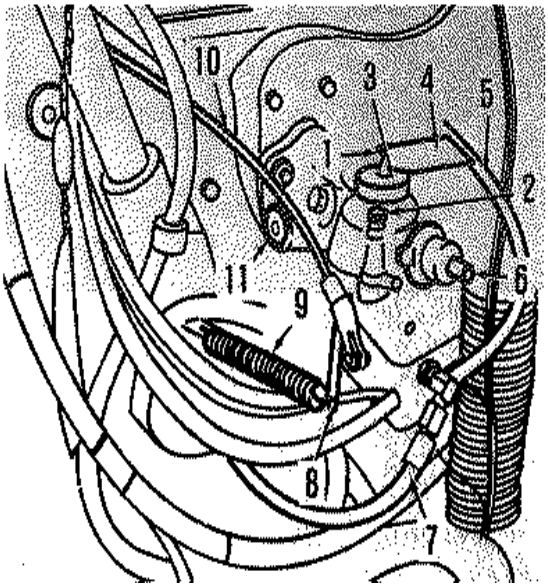


Figure 4-22. Governor

1. Speed Droop Arm
2. Droop Adjustment Screw
3. Droop Friction Lock
4. High Speed Stop (Not Shown)
5. Minimum Droop Setting Screw (Not Shown)
6. Speed Adjustment Screw
7. Oil Drain Hose
8. Governor Control Arm
9. Control Arm Spring
10. Throttle Linkage
11. Sensitivity Screw (located on housing)

(4) If frequency observed, approximately 5 seconds after load application, is above or below frequency at no load, adjust minimum droop setting screw (5, figure 4-22), turn clockwise if speed increases when load is applied and counterclockwise if speed decreases when load is applied.
(5) Repeat step c., (1), (2), and (3).
d. Adjust governor sensitivity as follows:
(1) Repeat steps a. and b.
(2) Plug ac cable into 45 kw, 3 phase load.
(3) Observe frequency indicator while 45 kw load is applied to alternator by placing ac power switch in ON position. Frequency should drop below 400 cycles, return to 400 cycles in approximately 3/4 to 1 second. Steady operation (no hunting) should follow transient speed change described above.
(4) Remove 45 kw load by placing ac power switch in OFF position. Frequency should go above 400 cycles and return to 400 cycles within 1 to 1.5 seconds.
(5) If speed hunts after steps (3) or (4), the governor is too sensitive. Turn sensitivity screw clockwise (11, figure 4-22), until stable operation is achieved (only 1/16-inch turn should be required).
(6) If recovery time in step (3) or (4) is more than approximately 1.4 second, turn sensitivity screw counterclockwise.
(7) Repeat steps (3) and (4) several times to ensure that proper adjustment has been made.

CAUTION

Adjusting sensitivity needle of the governor normally will be done only at overhaul or when a 50° temperature change has occurred. Check out all other possibilities of trouble before making this adjustment.

4-105. Magneto to Engine Training.

Remove timing mark access plug, located on the upper structure compartment, and adjust the magneto to engine timing as follows:

a. Place a Scintilla No. 11-851, or equivalent, timing light in place where it can be seen easily. Plug timing light power cable into a 110-volt AC outlet and connect ground lead to a bare metal part. Screw a shop test lead into magneto switch wire terminal. Connect either red wire to the test lead and coil the other wires.
b. Timing light should be illuminated to indicate a closed primary circuit. If timing light is not illuminated, remove timing mark access plug and align white gear tooth with pointer by rotating magneto.
c. Tap magneto case counterclockwise with a non- marring hammer until timing light is extinguished. This indicates breaker points are open. Tighten two magneto attaching nuts.
d. Face flywheel and check the magneto timing by turning the flywheel clockwise approximately 10 degrees (2/3 of the width of a blade). Tap counterclockwise until timing light is extinguished. Flywheel and flywheel housing timing marks will be aligned (figure 4-23) it timing is correct.

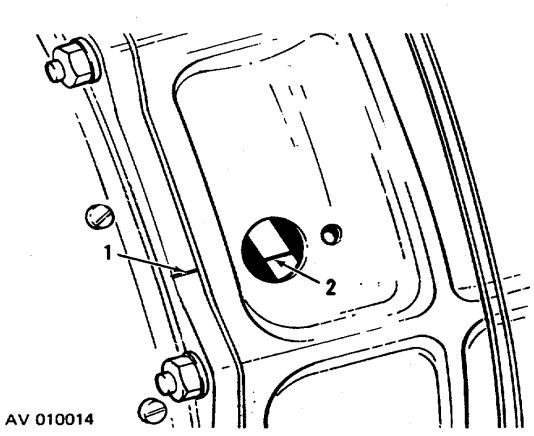
e. After completing test, reinstall magneto timing mark access plug. Remove timing light and test lead from magneto switch wire terminal.
f. Install magneto ground wire.
g. Install spark plug leads.

4-106. Carburetor.

Adjust the carburetor as follows:

a. Idle Mixture Adjustment. Set throttle lever in the START-IDLE position (900 to 1000 rpm). Adjust the idle mixture screw to give the maximum rpm at that throttle setting.

b. Throttle Stop Adjustment. Set throttle lever in the STOP position. Adjust the throttle stop screw on the side of the carburetor until it just touches the stop pin. Back off stop screw one and one-half turns. This adjustment insures that in the STOP position the butterfly valve will completely shut off the air supply and cause the engine to stop running.



1. Flywheel Housing Timing Mark
2. Flywheel Timing Mark

Figure 4-23. Engine timing marks.

Section V. ILLUSTRATED PARTS BREAKDOWN

4-107. General.

The purpose of the illustrated parts breakdown is to provide a complete replacement parts list for USA Model C-26C generator set.

4-108. Group Assembly Parts List.

The Group Assembly Parts List is arranged in order of disassembly. Sub-assemblies and parts are arranged to establish their relationship to preceding assemblies. Attaching parts are listed directly under the parts or sub-assemblies which they attach. The symbol (-----*-----) indicates the end of attaching parts for that assembly. The Group Assembly Parts List is presented in tabular form. The columns reading from left to right are headed Figure and Index Number, Part Number, Description and Units Per Assembly.

4-109. Figure and Index Number Column.

The figure and index number column provides the required reference from each part to the corresponding illustration.

4-110. Part Number Column.

The part number may fall into three categories. It may be the part or drawing number assigned by the manufacturer of the overall equipment to parts made expressly for this equipment; the part number of a vendor who supplies the part to the manufacturer for use in the equipment; or a government standard part number. A part with a government standard part number may be procured from any vendor provided the part is manufactured in accordance with military drawings and specifications. Common type (AN, MS or NAS) hardware may be substituted if it is determined the suitable substitute meets or exceeds the military drawings and specifications.

4-111. Description Column.

The description gives the basic name of the part plus descriptive information helpful in the requisitioning of replacement parts. When the part is procured from a vendor, a five-digit number in parentheses will follow the description. This number represents the name and address of the vendor listed in the Federal Supply Code of Manufacturers, H4-1. A list of the Federal Supply Code numbers used throughout this catalog and the manufacturers they represent may be found in paragraph 4-114. When the part is procured by a government standard part number; the governing government specification will appear in parentheses after the description, wherever applicable, in place of the five-digit number. Government Furnished Equipment items are denoted by the parenthesized caption (GFE).

4-112. Units Per Assembly Column.

This number indicates the quantity of a certain part used at that location on a particular assembly and is not to be construed as representing the total quantity of such parts in the equipment.

4-113. Vendor Code.

The following Federal Supply Codes for Manufacturers are used throughout this publication. The H4-1 or H4-2 Cataloging Handbook should be used for validation.

00779 AMP, Inc. P.O. Box 3608, Harrisburg, Pa. 17105

00992 Bishop, E.C. and Son, Inc., Warsaw, Mo. 65355

01930 Amerock Corp., 4000 Auburn St., Rockford, Ill. 61103

03479 Murphy, Frank W., Mfg. Inc., P.O. Box 4537, Tulsa, Okla. 74114

04969 Available Truck Co., 7625 S. Kedzie, Chicago, Ill. 60652

13445 Cole-Hersee, Co., 20 Old Colony Ave., Boston, Mass. 02127

14351 Continental Motors Corp.,205 Market Ave. Muskegon, Mich. 49443

14704 Crydom Controls, Div. Of International Rectifier, 3115 West Warner Ave., Santa Ana, Calif. 92704

15840 Danly Machine Specialties, Inc., 2100 South Laramie Ave., Chicago, Ill. 60650

19315 Bendix Corp. Eclipse-Pioneer Division, Teterboro, N.J. 07608

21335 Fafnir Bearing Co., The, Booth St., New Britain, Conn.

24446 General Electric Co., 1 River Road, Schenectady, N.Y. 12305

28569 Hickok Electrical Instrument Co., 10514 Dupont Ave., Cleveland, Ohio 44108

30327 Imperial-Eastman Corp., 6300 W. Howard St., Chicago, Ill. 60648

31435 Lear Siegler, Inc., Aerospace Division, 17600 Broadway, Maple Heights, Ohio 44137

36659 Lockheed-California Co. A Division of, Lockheed Aircraft Corp., 2555 N. Hollywood Way, Burbank, Calif. 91503

38443 Marlin-Rockwell Co., Div. of Trw, Inc., 402 Chandler St., Jamestown, N.Y. 14701

44655 Ohmite Mfg. Co., 3601 Howard St., Skokie, Ill. 60076

48170 Porter, George K., Inc., Main and Overbrook Box G, Hatfield Pa. 19440

52793 Saginaw Products Corp., 69 Williams St., Saginaw, Mich. 48605

59433 Teletype Corp.,, 5555 Touhy Ave., Skokie, Ill.,

59443 Telweld Inc., Chicago, Ill.

59730 Thomas and Betts Co., Butler St., Elizabeth, N.J. 07207

60038 Timken Roller Bearing Co., 1835 Dueber Ave. S.W., Canton, Ohio

60380 Torrington Co., The, 59 Field, Torrington, Conn.

61463 United States Rubber Co., Avenue of the Americas, New York, N.Y. 10020

61864 United - Carr Inc., Suite 4600, Prudential Center, Boston, Mass. 02199

65092 Weston Instruments Inc., Weston-Newark, 614 Frelinghuysen Ave., Newark, N.J. 07114

66503 Woodward Governor Co., 5003 N. Second St., Rockford, Ill. 61101,

70040 AC Spark Plug, Division of General Motors Corp., 1300 N. Dort Highway, Flint, Mich. 48556

71943 Ditzler Color Div. Of, Pittsburgh Plate Glass Co., Detroit, Mich.

73680 Garlock, Inc., Palmyra, N.Y. 14522

73760 ITT General Controls, Inc., 801 Allen Ave., Glendale, Calif. 91201

73842 Goodyear Tire and Rubber Co., 1144 E. Market, Akron, Ohio 44316

74603 Hartman Electrical Mfg. Co., P.O. Box 8, Mansfield, Ohio 44901

74400 Hobbs, John W. Corp., Ash St. and Yale Blvd., Springfield, Ill.

74545 Hubbell Harvey, Inc., 100 State St., Bridgeport, Conn. 06603

75165 Johns-Manville Sales Corp., 22 E. 40th St., New York, N.Y. 10016

75345 Kirkhill Rubber Co., 300 E. Cypress St., Brea, Calif. 92621

75377 Kurz and Root Co., 1000 N. Mead St., Appleton, Wis. 54911

75477 Joy Mfg. Co., 338 South Broadway, New Philadelphia, Ohio 44663

76005 Lord Mfg. Co., 1635 W. 12^{th}, Erie, Pa. 16512

76301 McDonnell Douglas Corp. McDonnell Co., P.O. Box 516 Lambert St., Louis Municipal Airport, St. Louis, Mo. 63166

77138 Paul Henry, Inc., 496 10th Ave., New York, N.Y.

77221 Phasostron Instrument and Electronic Co., 151 Pasadena Ave., South Pasadena, Calif. 91030

78553 Tinnerman Products, Inc., Cleveland, Ohio

79960 Bendix Corp., The, Zenith Carburetor Div., 696 Hart Ave., Detroit, Mich. 48214

81118 Eaton Yale and Towne, Inc., 100 Erie View Plaza, Cleveland, Ohio 44114

81205 Boeing Co., The, P.O. Box 3707, Seattle, Wash. 98124

81640 Controls Co. of America, Control Switch Div., 1420 Delmar Drive, Folcroft, Pa. 19032

82647 Metals and Controls, Inc., Control Products Group, 34 Forest St., Attleboro, Mass 02703

83014 Hartwell Corp., 9035 Venice Blvd., Los Angeles, Calif. 90034

83298 Bendix Corp., The, Red Bank Div., Highway No. 35, Eatontown, N.J. 07724

90005 Bendix Corp., The, Filter Div., 434 West Twelve Mile Rd., Madison Heights, Mich. 48071

90763 United Carr Fastener Corp., 4258 N. Cecero, Chicago, Ill.

95879 Alemite Instrument Div. Of, Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill. 60614

98749 Sacramento Air Materiel Area, McClellan Air Force Base, Calif. 95652

99017 Protective Closures Co. Inc. Ca Plugs Div., 2207 Elmwood, Buffalo, N.Y. 14216

99246 Ram Meter, Inc., 1100 Hilton Rd., Ferndale, Mich. 48220

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-4	235-0100	DOLLY ASSY, C-26C GENERATOR (SEE FIGURE FOR NHA)	1	
-1	293-0100-622	.DOOR ASSY, BATTERY COMPARTMENT, LH	1	
-2	293-0100-623	.DOOR ASSY, BATTERY COMPARTMENT, RH	1	
		(ATTACHING PARTS)		
-3	AN253-2-1950	.PIN, HINGE	1	
-4	H5000C-K181-125	..LATCH ASSY (83014)	2	
-5	66B41641	..SHIELD, VENT	2	
-6	235-0062	.HOLDER, BATTERY BOX DOOR	2	
		(ATTACHING PARTS)		
-7	AN525-10R8	.SCREW, WASHER HEAD	4	
	MS21044-N3	.NUT, SELF-LOCKING	4	
-8	235-0085	.SCREEN ASSY, BLOWER	1	
		(ATTACHING PARTS)		
-9	MS35207-264	.SCREW, MACHINE	8	
-10	C3641-037-27	.SPRING, DOOR (78553)	2	
-11	235-0029	.DOOR ASSY, DOLLY, RH	1	
		(ATTACHING PARTS)		
-12	AN253-2-2125	.PIN, HINGE	1	
-13	H5000C-K181-125	..LATCH ASSY (83014)	2	
-14	C3642S050-67	..CLIP (78553)	2	
-15	C3641-037-27	.SPRING, DOOR (78553)	3	
-16	235-0100-24	.PANEL ASSY, DOOR LH	1	
		(ATTACHING PARTS)		
-17	AN253-2-3443	.PIN, HINGE	2	
-18	H5000C-K181-125	..LATCH ASSY (83014)	2	
-19	C3642S050-67	..CLIP (83014)	3	
-20	235-1078	.MANIFOLD ASSY, GENERATOR COOLING AIR	1	
		(ATTACHING PARTS)		
-21	AN3-5A	.BOLT, MACHINE	4	
-22	AN34A	.BOLT, MACHINE	2	
	AN960-10	.WASHER, FLAT	6	
	AN935-10	.WASHER, LOCK	6	
	MS35650-302	.NUT, PLAIN, HEXAGON	6	
	235-2101	..SWITCH ASSY, BLOWER DIFFERENTIAL PRESSURE	1	
-23	235-2101-10	...COVER, SWITCH ASSY	1	
		(ATTACHING PARTS)		
-24	MS35206-245	...SCREW MACHINE	2	
	AN960-8	...WASHER, FLAT	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-4-25	WZ2RDT	...SWITCH (74059)	1	
		(ATTACHING PARTS)		
-26	MS35206-235	...SCREW, MACHINE	2	
	AN960-6	...WASHER, FLAT	4	
	AN365-632	...NUT, SELF-LOCKING, HEXAGON	2	
	235-0106	.MOUNT ASSY, ENGINE	2	
-27	J5385-1	..MOUNT (76005)		
-28	235-0201-6	.BRACKET ASSY, ENGINE MOUNT, REAR, LH	1	
-29	235-0201-8	.BRACKET ASSY, ENGINE MOUNT, REAR, RH	1	
-30	235-0102	.DOOR ASSY, HEATER ACCESS, LH	1	
		(ATTACHING PARTS)		
-31	AN253-2-1000	.PIN, HINGE	1	
-32	MS35207-261	.SCREW, MACHINE..	6	
-33	235-0102-1	.DOOR ASSY, HEATER ACCESS, RH	1	
		(ATTACHING PARTS)		
-34	AN253-2-1000	.PIN, HINGE	1	
-35	293-0503	.LUG, TIEDOWN	4	
-36	100801S8-4313	.BUSHING	4	
		(ATTACHING PARTS)		
-37	AN6-53	.BOLT, MACHINE	4	
-38	AN960-616	.WASHER, FLAT	4	
-39	AN310-6	.NUT, CASTELLATED	4	
-40	MS24665-134	.PIN, COTTER	4	
-41	NO NUMBER	.CHASSIS	1	
-42	NO NUMBER	.PLATE, DATA	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-5	235-0030	STRUCTURE INSTALLATION, UPPER (AF51-35-1 THRU AF51-35-332)(SEE FIGURE 4-3 FOR NHA)	1	
	235-0030-1	STRUCTURE INSTALLATION, UPPER (AF51-35-333 AND SUBSEQUENT)(SEE FIGURE 4-3 FOR NHA)	1	
	235-0031	.BULKHEAD ASSY	1	
	235-1166	..BRACKET ASSY	1	
		(ATTACHING PARTS)		
-1	EAB700B10	..CLAMP	1	
	AN960-10	..WASHER	1	
	AN365-10	..NUT	1	
		---*---		
-2	235-0136	...PANEL ASSY	1	
		(ATTACHING PARTS)		
-3	AN520-10R10	...SCREW, MACHINE	6	
	AN960-10	...WASHER	6	
		---*---		
-4	63B40121	....DECAL	1	
-5	64B39515	...DECAL	1	
-6	MS25089-3C	...SWITCH, MAGNETO GROUND OVERRIDE	1	
-7	1996041	...SWITCH, STARTER (04969)	1	
	235-0030-177	.COVER ASSY	1	
-8	98292-1-130	..STUD, TURNLOCK FASTENER (61864)	4	
-9	98292-2-200	..STUD, TURNLOCK FASTENER (61864)	4	
	99836	..PIN, STRAIGHT, HEADLESS (61864)	8	
-10	235-0030-172	..COVER	1	
-11	235-0030-100	.DOOR	1	
		(ATTACHING PARTS)		
-12	AN530-8R6	.SCREW, TAPPING	2	
		---*---		
-13	235-0030-120	.DOOR	1	
		(ATTACHING PARTS)		
-14	AN530-8-6	.SCREW, TAPPING	8	
		---*---		
-15	235-0072	.DOOR ASSY, GENERATOR ACCESS RH	1	
		(ATTACHING PARTS)		
-16	102361-01928	.PIN, HINGE	1	
		---*---		
-17	H5000C-K181-188	..LATCH ASSY (83014)	2	
-18	235-0072-12	..SCREEN, GALVANIZED IRON	1	
	235-0078	..LOUVER ASSY	1	
	293-0078	..LOUVER ASSY	1	
-19	111177-01822	.EXTRUSION, RUBBER	1	
-20	111177-05224	.EXTRUSION, RUBBER	1	
-21	235-0030-178	.STRUCTURE ASSY, UPPER	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-5		(ATTACHING PARTS)		
-22	AN3-5A	.BOLT, MACHINE.....	10	
	AN960-10L	.WASHER, FLAT.....	10	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-6	235-0035-58	HOOD ASSY, UPPER AFT (SEE FIGURE 4-3 FOR NHA)	1	
-1	H4600C064	.LATCH ASSY	2	
-2	ZYA1012-13	.HINGE ASSY (06004)	2	
-3	C3641-037-27	.SPRING (78553)	3	
-4	235-0035-52	.DOOR ASSY, UPPER AFT HOOD	1	
		(ATTACHING PARTS)		
-5	105774C09000910	.PIN, HINGE	1	
		---*---		
-6	H5000C-K181-250	..LATCH ASSY (83014)	1	
-7	235-0035-58	.DOOR ASSY, ACCESS	1	
		(ATTACHING PARTS)		
-8	105774C093-01412	.PIN, HINGE	1	
		---*---		
-9	H5000C-K181-125	..LATCH ASSY (83014)	1	
-10	293-0654	.LATCH, HOOD, SAFETY	1	
-11	64D24722	.MUFFLER ASSY, OUTBOARD EXHAUST	1	
		(ATTACHING PARTS)		
-12	MS35207-263	.SCREW, MACHINE	2	
-13	AN960-10	.WASHER, FLAT	2	
-14	MS35338-43	.WASHER, LOCK	2	
-15	AN315-3R	.NUT, PLAIN	2	
-16	MS35207-264	.SCREW, MACHINE	6	
-17	MS35338-43	.WASHER, LOCK	6	
-18	AN960-10	.WASHER, FLAT	6	
-19	AN315-3R	.NUT, PLAIN	6	
		---*---		
-20	64D24695	.MUFFLER ASSY, INBOARD EXHAUST	1	
		(ATTACHING PARTS)		
-21	MS35207-263	.SCREW, MACHINE	2	
-22	AN960-10	.WASHER, FLAT	2	
-23	MS35338-43	.WASHER, LOCK	2	
-24	AN315-3R	.NUT, PLAIN	2	
-25	MS35207-264	.SCREW, MACHINE	6	
-26	AN960-10	.WASHER, FLAT	6	
-27	MS35338-43	.WASHER, LOCK	6	
-28	AN315-3R	.NUT, PLAIN	6	
		---*---		
-29	235-0035-50	.SCREEN, EXHAUST MUFFLER	1	
-30	64D26495-9	LINER (75165)	1	
-31	NO NUMBER	.RETAINER (MFR FROM WIRE FABRIC 6 X 6 MESH 0.032 DIA SST TYPE 316, FED. SPEC. RR-W-360 TYPE I, CL I OR EQUIVALENT)	AR	
		(ATTACHING PARTS)		
-32	MS21042-3	.NUT, LOCKING	8	
	AN960C10	.WASHER, FLAT	8	
	MS35207-263	.SCREW, MACHINE	8	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
..4-6-33	68D41698	.RIB, BULKHEAD, RH	1	
-34	68D41697	.RIB, BULKHEAD, LH.....	1	
-35	102361-00428	.PIN, HINGE.....	4	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-7	235-1070	WHEEL INSTALLATION, REAR (SEE FIGURE 4-3 FOR NHA)	1	
	231-0038	.SPRING ASSY, LEAF, REAR AXLE	1	
		(ATTACHING PARTS)		
-1	231-0115	.BOLT "U"	2	
-2	231-0113	.PLATE, SPRING RETAINING	1	
-3	MS35338-45	.WASHER, LOCK	4	
-4	AN360-5	.NUT, PLAIN, HEXAGON	4	
		---*---		
	235-1070-610	..KIT, SHACKLE ASSY, REAR SPRING, FORWARD ATTACHING	1	
-5	AN8-33	...BOLT, MACHINE	1	
-6	AN8-26	...BOLT, MACHINE	1	
-7	AN960-816	...WASHER, FLAT	2	
-8	AN960-1216L	...WASHER, FLAT	4	
-9	235-1072	...SHACKLE, SPRING	2	
-10	105739X0500-0750-1500	...BUSHING, SLEEVE	1	
-11	105739X0500-0750-2125	...BUSHING, SLEEVE	1	
-12	MS24665-285	...PIN, COTTER	2	
-13	AN310-8	...NUT, CASTELLATED, HEXAGON	2	
	235-1070-612	..KIT, SHACKLE ASSY, REAR SPRING, AFT ATTACHING	1	
-14	AN8-33	...BOLT, MACHINE	1	
-15	AN960-816	...WASHER, FLAT	2	
-16	100696X32-25-010	...SPACER	2	
-17	105739X0500-0750-2125	...BUSHING, SLEEVE	1	
-18	MS24665-285	...PIN, COTTER	1	
-19	AN310-8	...NUT, CASTELLATED, HEXAGON	1	
-20	NO NUMBER	..SPRING, LEAF	1	
	9372	.WHEEL AND HUB ASSY (52793)	2	
		(ATTACHING PARTS)		
-21	AN7503-20	.WASHER, FLAT	1	
-22	MS24665-292	.PIN, COTTER	1	
-23	AN7502-20	.NUT, CASTLE	1	
		---*---		
-24	5264A	..HUB	1	
	5264-3	...FLANGE, WHEEL		
	5264-6A	...STUD	5	
-25	14276	..RACE AND BEARING (60038)	2	
-26	14123A	..RACE AND BEARING (60038)	2	
-27	271G124	..SEAL, GREASE	1	
	9372F	..WHEEL ASSY	1	
		(ATTACHING PARTS)		
-28	7805	..NUT	5	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-7-29	9373	...SHELL, WHEEL VALVE SIDE	1	
-30	9374	...SHELL, WHEEL PLAIN SIDE	1	
-31	MS21045-6	...NUT, LOCK 3/8-24 NF	8	
-32	60-6-6	...BOLT, 3/8-24NF2AX3/4	8	
-33	31509	..CAP, GREASE	1	
-34	6:00 X 9	.TIRE, PNEU. 6 PLY LUG TREAD (73842)	2	
-35	MS35392-52	.TUBE, PNEU. (73842)	2	
-36	293-1071	.AXLE	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-8	235-1100-12	DRIVE INSTALLATION	1	
	63C40173	.DRIVE ASSY	1	
-1	231-0032	..HANDLE, COUPLING DRIVE	1	
		(ATTACHING PARTS)		
-2	NAS561P5-18	..PIN	1	
		---*---		
-3	AN520-416R10	..SCREW, MACHINE	4	
-4	MS35338-44	..WASHER, LOCK	4	
-5	235-115	..CAP, FRONT WHEEL RIGHT SIDE	1	
-6	AN6227B8	..PACKING "O" RING	1	
-7	63X1204	..SEAL (73680)	2	
-8	MS16625-1300	..RING, RETAINING	6	
-9	9109K	..BEARING, BALL ANNULAR (21335)	5	
-10	MS16624-177	..RING, RETAINING	2	
-11	235-1152	..AXLE, FRONT WHEEL DRIVE RH	1	
-12	231-0039	..SHAFT ASSY, DRIVE COUPLING	1	
-13	231-0054	..SPRING, DRIVE COUPLING	1	
-14	231-0303	..STOP, CLUTCH HANDLE	1	
-15	231-0025	..COUPLING, FRONT WHEEL DRIVE DISCONNECT	1	
		(ATTACHING PARTS)		
-16	AN960-416L	..WASHER, FLAT	1	
-17	MS35338-44	..WASHER, LOCK	1	
-18	AN315-4R	..NUT, PLAIN, HEXAGON	1	
		---*---		
-19	231-0126	..SPACER, BEVEL GEAR BEARING	1	
-20	235-1106-8	..HOUSING ASSY	1	
-21	231-0013-1	...CAP, L. H	1	
-22	231-0014-1	...CAP, R. H	1	
		(ATTACHING PARTS)		
-23	AN75A14	...BOLT, MACHINE	6	
-24	AN960-516L	...WASHER, FLAT	6	
		---*---		
	235-1100-2	..GEAR AND PINION ASSY	1	
-25	*231-0042	...PINION, FRONT WHEEL BEVEL GEAR	3	
-26	*231-0043	...GEAR, FRONT WHEEL BEVEL	2	
		*Order as matched set P/N 235-1100-2		
-27	231-0060	..BUSHING, SLEEVE	1	
-28	**235-2039	..AXLE AND CAP, FRONT WHEEL DRIVE LH	1	
		**Replaces and interchangeable with P/N 235-1153 Axle and 235-1154 Cap		
-29	231-0065-2	..SHAFT, PINION BEVEL GEAR	3	
-30	231-0049	..WASHER, PLANETARY GEAR HOUSING	3	
-31	AN565A8H-6	..SET SCREW	3	
-32	59A76303	..BUSHING, FRONT WHEEL DRIVE	3	
-33	B168X	..BEARING, NEEDLE ANNULAR (60380)	1	
-34	***235-3134	..GEAR, WORM AND SPUR DRIVE	1	
		***Replaces and interchangeable with P/N 235-1103 Worm Gear, 235-1122 Spur Gear and NAS145A44 Bolt		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-8-35	235-1104	..GEAR, SPUR PINION DRIVE	1	
-36	S5SQ5A7	..BEARING, BALL ANNULAR (38443)	2	
-37	5202K	..BEARING, BALL, ANNULAR (21835)	1	
-38	AN960-516	..WASHER,FLAT	1	
-39	AN-310-5	..NUT, CASTELLATED, HEXAGON	1	
-40	MS24665-132	..PIN, COTTER	1	
-41	AN280-606	..KEY, WOODRUFF	1	
-42	235-1107	..CAP, FRONT BEARING DRIVE WHEEL	1	
		(ATTACHING PARTS)		
-43	NAS183-4-11A	..STUD, THREADED	4	
-44	AN960-416	..WASHER, FLAT	4	
-45	MS35338-44	..WASHER, LOCK	4	
-46	AN315-4R	..NUT, PLAIN, HEXAGON	4	
-47	MS16562-70	..PIN, DOWEL (15840)	2	
-48	62B40038	..SPACER, CAP (98749)	1	
-49	62B40039-1	..SPACER, SPUR GEAR BEARING (98749)	1	
-50	62B40039-3	..SPACER, WORM GEAR BEARING (98749)	1	
-51	63X115	..SEAL (73680)	1	
-52	293-0674	..COUPLING	1	
-53	293-0672	..HOUSING, SEAL	1	
		(ATTACHING PARTS),		
-54	AN515-416R7	..SCREW, MACHINE	4	
-55	MS35338-44	..WASHER, LOCK	4	
		---*---		
-56	AN900-16	..GASKET, ANNULAR	1	
-57	AN909B16	..PLUG, PIPE	1	
-58	231-0004	..HOUSING ASSY, PLANETARY GEAR	1	
	231-0008	..BUSHING, SLEEVE	1	
-59	231-0003	..PLATE ASSY, PLANETARY	1	
		(ATTACHING PARTS)		
-60	AN4-13A	..BOLT, MACHINE	6	
-61	AN960-416	..WASHER, FLAT	6	
-62	AN960-416L	..WASHER, FLAT	6	
-63	MS21044-N4	..NUT, SELF-LOCKING, HEXAGON	6	
		---*---		
	231-0008	...BUSHING, SLEEVE	1	
-64	235-1105	..GEAR. FRONT WHEEL HELICAL DRIVE	1	
-65	235-1109	..PAN ASSY, FRONT WHEEL DRIVE	1	
		(ATTACHING PARTS)		
-66	AN515-416R10	..SCREW, MACHINE	16	
-67	AN936A416	..WASHER, LOCK	16	
-68	235-3068	..GASKET, PAN	1	
		---*---		
-69	MS20913-3S	..PLUG, PIPE		
-70	MS20913-2S	..PLUG, PIPE	1	
-71	231-0153	..ADAPTER, FRONT BRAKE CATCH	1	
		(ATTACHING PARTS)		
-72	AN515-416R10	..SCREW, MACHINE	4	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-8-73	AN936A416	..WASHER, LOCK ---*---	4	
-74	NAS51-196	..RING, RETAINING	1	
-75	9110PP	..BEARING, BALL (21335)	1	
-76	MS27183-14	..WASHER, FLAT (USED AS SHIM, WITH ONLY THOSE BRACKETS P/N 235-1159 THAT WERE DESIGNED TO ACCOMMODATE TURN STOPS)	2	
-77	9111PP	..BEARING, BALL (21335)	1	
-78	235-1159	..BRACKET, FRONT SUPPORT	1	
-79	MS20365-624C	..NUT, SELF-LOCKING HEXAGON	2	
-80	AN960-616	..WASHER, FLAT	2	
-81	MS20365-624C	..NUT, SELF-LOCKING, HEXAGON	4	
-82	AN960-616	..WASHER, FLAT	4	
-83	58H76328	..PLATE (98749)	1	
-84	58D76327-101	..STRAP ASSY	2	
-85	235-1134	..TUBE ASSY, FRONT END SUPPORT (ATTACHING PARTS)	1	
-86	52-062-312-3000	..ROLL PIN (72962) ---*---	1	
-87	231-0417	..HARNESS ASSY (70898)	1	
	NO NUMBER	...CABLE, 32 IN. LG, NO. 8 AWG, EXTRA FLEXIBLE WELDING CABLE (420 STRAND) WITH 600-VOLT COLD TEST INSULATION AND JACKET	1	
-88	MS25036-17	...TERMINAL, LUG	1	
-89	MS3108R14-3P	...CONNECTOR, PLUG, ELECTRICAL	1	
-90	MS21919-WDG5	..CLAMP	2	
-91	235-0090-4	..SUPPORT, RELAY (ATTACHING PARTS)	1	
-92	AN515-416R7	..SCREW, MACHINE	4	
-93	100696D12-06-22	..SPACER	2	
	MS35338-44	..WASHER, LOCK ---*---	4	
-94	235-0093-2	..INSULATOR, FRONT WHEEL DRIVE (ATTACHING PARTS)	1	
-95	AN3-26A	..BOLT, MACHINE	2	
-96	AN960-10	..WASHER, FLAT	2	
-97	MS35338-43	..WASHER, LOCK	2	
-98	MS35650-302	..NUT, PLAIN, HEXAGON ---*---	2	
-99	235-0093-4	..INSULATOR, FRONT WHEEL. DRIVE (ATTACHING PARTS)	1	
-100	AN3-13A	..BOLT, MACHINE	2	
-101	AN960-10	..WASHER, FLAT	2	
-102	MS35338-43	..WASHER, LOCK	2	
-103	MS35650-302	..NUT, PLAIN, HEXAGON ---*---	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-8-104	235-0092-2	..RESISTOR, HELICAL WIRE	1	
-105	235-0092-4	..RESISTOR, HELICAL WIRE	1	
		(ATTACHING PARTS)		
-106	AN4-12A	..BOLT, MACHINE	3	
-107	AN960-416	..WASHER,FLAT	12	
-108	MS35338-44	..WASHER, LOCK	3	
-109	AN345-416	..NUT, PLAIN, HEXAGON	3	
		---*---		
-110	235-0091	..SHIELD, FRONT WHEEL DRIVE RESISTOR	1	
		(ATTACHING PARTS)		
-111	AN3-4A	..BOLT, MACHINE	2	
-112	AN960-10	..WASHER, FLAT	2	
-113	AN935-10	..WASHER, LOCK	2	
-114	AN345-10	..NUT, PLAIN, HEXAGON	2	
		---*---		
-115	231-0242	..SHAFT ASSY, LIMIT SWITCH ACTUATOR	3	
	105740X0128-0437-0182	...BUSHING	1	
-116	231-0244	..SPRING, LIMIT SWITCH RETURN	3	
-117	102809-187-308	..PIN	1	
-118	MS25026-1	..SWITCH, SENSITIVE	3	
-119	235-1117	..SPRING, ACTUATOR LIMIT SWITCH	3	
-120	235-2013	..BUS, FRONT WHEEL SWITCH	1	
-121	AN515-6-40	..SCREW, FRONT WHEEL LIMIT SWITCH	2	
-122	MS35333-37	..WASHER, LOCK	2	
-123	AN960-6	..WASHER, FLAT	2	
-124	MS35649-262	..NUT	2	
-125	235-1132	..LID, FRONT WHEEL SWITCH	1	
		(ATTACHING PARTS)		
-126	AN515-10R8	..SCREW, MACHINE	4	
	AN960-10	..WASHER, FLAT	4	
	MS35333-39	..WASHER, LOCK	4	
		---*---		
-127	MS35489-14	..GROMMET, RUBBER	2	
	235-1170	..BAR ASSY, TOW	1	
		(ATTACHING PARTS)		
-128	AN8-50A	..BOLT, MACHINE	1	
-129	AN960-816L	..WASHER, FLAT	1	
-130	MS21044-N8	..NUT, SELF-LOCKING, HEXAGON	1	
		---*---		
-131	231-0058	...EYE, TOWBAR LUNETTE	1	
		(ATTACHING PARTS)		
-132	AN386-2-18A	...PIN	2	
-133	AN975-3	...WASHER, RECESSED	2	
-134	MS21042-3	...NUT, SELF-LOCKING HEXAGON	2	
		---*---		
-135	231-0154	...CATCH ASSY	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-8-		(ATTACHING PARTS)		
-136	AN24-34A	...BOLT, MACHINE	1	
-137	AN365-428	...NUT, SELF-LOCKING HEXAGON	1	
		---*---		
-138	235-1128	...TUBE, TOWBAR	1	
		(ATTACHING PARTS)		
-139	AN386-2-19A	...PIN	2	
-140	AN975-3	...WASHER, RECESSED	2	
-141	MS20364-1032A	...NUT, SELF-LOCKING HEXAGON	2	
		---*---		
-142	235-1125	...FITTING, TOW BAR END	1	
-143	MS15003-1	....NIPPLE, ZERK	1	
-144	235-1173	...BRAKE ASSY, LH(W/EXH USE 235-1173-3)	1	
-145	235-1173-1	...BRAKE ASSY, RH (W/EXH USE 235-1173-3)	1	
	235-1173-3	...BRAKE ASSY, (PREFERRED ITEM FITS LH OR RH)	2	
		(ATTACHING PARTS)		
-146	AN43B34A	...BOLT, EYE	2	
-147	AN960-416	...WASHER, FLAT	2	
-148	AN365-428	...NUT, SELF-LOCKING, HEXAGON	2	
		---*---		
-149	235-1133	..SPRING, TOWBAR RETURN	2	
-150	66C42130	..HARNESS ASSY		
-151	MS25102-27	..SWITCH, TOGGLE (3 HOLE MTG)	1	
	MS35058-27	..SWITCH, TOGGLE (1 HOLE MTG)	1	
	MS25089-3C	..SWITCH, SENSITIVE (81640)	2	
		(ATTACHING PARTS)		
-152	MS35206-228	..SCREW, MACHINE	2	
		---*---		
-153	231-0172	..COVER, LUNETTE EYE SWITCH MTG	1	
	231-0172-1	..COVER, LUNETTE EYE SWITCH MTG	1	
	330-3042	..COVER, LUNETTE EYE SWITCH MTG	1	
		(ATTACHING PARTS)		
-154	MS35206-245	..SCREW, MACHINE	4	
-155	MS35337-42	..WASHER, LOCK	4	
		---*---		
-156	MS21919-WDG5	..CLAMP,LOOP	2	
		(ATTACHING PARTS)		
-157	MS35206-247	..SCREW, MACHINE	1	
	MS35335-31	..WASHER, LOCK	1	
	AN960-8	..WASHER, FLAT	1	
	MS35649-282	..NUT, PLAIN, HEXAGON	1	
		---*---		
-158	293-0603	..STRAP, GROUND, RESISTOR TYPE (0.055 OHMS)	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-8-159	MS35489-1	..GROMMET, RUBBER	1	
	G301370	..VENT (95879)	1	
	235-1100-10	.TIRE AND RIM ASSY, FRONT	2	
-160	9372F	..RIM ASSY (52793)	2	
		(ATTACHING PARTS)		
-161	5264-6A	..STUD (52793)	10	
-162	7805	..NUT, PLAIN, HEXAGON (52793)	10	
		---*---		
-163	6:00 X 9	..TIRE, PNEU 6 PLY, LUG TREAD INDUSTRIAL TYPE (73842)	2	
	MS35392-52	TUBE, PNEU, INDUSTRIAL TYPE (73842)	2	
-164	231-0001-1	.MOTOR (ALTERED FROM GENERAL ELECTRIC CO. TYPE 5BC21MJ85A 1-1/2 HP 7500 RPM, 24 VOLT DC MOTOR)	1	
		(ATTACHING PARTS)		
-165	AN4-16A	.BOLT, MACHINE (FWD)	2	
	AN4-17A	.BOLT, MACHINE (AFT)	2	
-166	AN960-416	.WASHER, FLAT	4	
	MS21044-N4	.NUT, SELF-LOCKING, HEXAGON	4	
		---*---		
-167	63C40182	.COVER, CONTROLLER (98749)	1	
		(ATTACHING PARTS)		
-168	AN3-4A	.BOLT, MACHINE	2	
-169	AN960-10	.WASHER, FLAT	2	
-170	MS35338-43	.WASHER, LOCK	2	
-171	MS35650-302	.NUT, PLAIN	2	
		---*---		
-172	MC815	.CONTROLLER (74063)	1	
		(ATTACHING PARTS)		
-173	AN3-3A	.BOLT	6	
-174	AN960-100L	.WASHER,FLAT	6	
		---*---		
-175	NAS75-8-027	.BUSHING	2	
-176	NAS75-8-021	.BUSHING	2	
-177	NO NUMBER	.GASKET (SOLID EXCEPT FOR SCREW HOLES, LOCAL MFR FROM SYNTHETIC RUBBER 1/16 IN. THK MIL-G-6183 CLASS I, GRADE MED, OR EQUAL)	1	
-178	69C38808	DECAL (WARNING)	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-9	64E24191	TANK ASSY, FUEL (80049) (REPLACEMENT FOR ORIGINAL TANKS ON ALL MODELS	1	
		(ATTACHING PARTS)		
-1	231-0105	STRAP, TANK	2	
-2	MS21252-3LS	CLEVIS, ROD END	4	
-3	MS21251B3S	BODY, TURNBUCKLE	4	
4	MS21252-3RS	CLEVIS, ROD END	4	
-5	MS20392-2-11	PIN, STR	8	
-6	MS24665-132	PIN, COTTER	8	
		---*---		
-7	235-0126	GAGE ASSY, FUEL	1	
-8	235-0135	CAP ASSY, FUEL TANK (USED ON ALL ORIGINAL TANKS)	1	
	CD297	CAP ASSY, FUEL TANK (81118) (USED ONLY ON REPLACEMENT TANK 64E24191)	REF	
-9	MS29523-1	.HOOK, CAP	1	
-10	NO NUMBER	.CHAIN, WELDLESS 0.018 THK, 27 LINKS PER FOOT SPEC. RR-C-271 TYPE II	AR	
-11	108059	.GASKET (75345)(USED ON ORIGINAL TANKS)	1	
	64E24191-14	.GASKET (80049) (USED ON REPLACEMENT TANK ONLY)	1	
-12	235-1029	SUMP	1	
		(ATTACHING PARTS)		
-13	NAS183-3-5A	STUD	5	
-14	AN365-1032	NUT, HEX	5	
		---*---		
-15	189631	GASKET	1	
-16	R32-96	FILTER (90005)	1	
-17	567824	PLATE, FILTER (90005)	1	
		(ATTACHING PARTS)		
-18	NAS183-3-54A	STUD, PLAIN	1	
-19	AN365-1032	NUT	1	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-10	235-1030	LINE INSTALLATION, FUEL (SEE FIGURE 4-3 FOR NHA)	1	
-1	293-2157-7	.TUBE ASSY, ENGINE FUEL AFT	1	
	293-2157-11	.TUBE ASSY, ENGINE FUEL AFT	1	
		(ATTACHING PARTS)		
-2	EAB700-4	.CLAMP, HOSE	3	
-3	EAB700-9	.CLAMP, HOSE	4	
-4	MS35207-268	.SCREW, MACHINE	4	
-5	MS35207-269	.SCREW, MACHINE	4	
	AN935-10	.WASHER,LOCK	4	
	AN960-10	.WASHER, FLAT	4	
	MS35650-302	.NUT, PLAIN, HEXAGON	4	
-6	100696D12-08-024	.SPACER	1	
-7	100696D28-08-100	.SPACER	3	
		---*---		
-8	AN832-6D	.UNION, TUBE	1	
-9	MS24400D6	.NUT, PLAIN, HEXAGON	1	
-10	235-1036	.TUBE ASSY, ENGINE FUEL MIDDLE	1	
		(ATTACHING PARTS)		
-11	AN742-10	.CLAMP, HOSE	3	
-12	AN520-10R20	.SCREW, MACHINE	3	
	AN935-10	.WASHER,LOCK	3	
	AN960-10	.WASHER,FLAT	3	
	MS35650-302	.NUT, PLAIN, HEXAGON	3	
-13	100696D12-08-100	.SPACER	3	
		---*---		
-14	MS24392D6	.UNION, TUBE	1	
-15	235-1035	.TUBE ASSY, FUEL CONNECTING FWD	1	
		(ATTACHING PARTS)		
-16	AN742-10	.CLAMP, HOSE	2	
-17	AN520-10 R8	.SCREW, MACHINE	2	
	AN935-10	.WASHER, LOCK	2	
	AN960-10	.WASHER, FLAT	2	
	MS35650-302	.NUT, PLAIN, HEXAGON	2	
		---*---		
-18	AN822-6D	.ELBOW, TUBE	1	
-19	103HD1/4X1/4	.VALVE, SHUTOFF, ENGINE FUEL (30327)	2	
		(ATTACHING PARTS)		
-20	AN520-416R8	.SCREW, MACHINE	2	
	AN935-416	.WASHER LOCK	2	
	AN960-416	.WASHER FLAT	2	
	AN345-416	.NUT, PLAIN, HEXAGON	2	
		---*---		
-21	AN916-2D	.ELBOW, TUBE	2	
-22	AN911-2	.UNION, TUBE	2	
-23	AN816-6D	.UNION, TUBE	1	
-24	MS35489-11	.GROMMET, RUBBER	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-10	235-1030-1	LINE INSTALLATION, FUEL	1	
-25	AN6270-6-5	.HOSE ASSY.....	2	
	235-1024	.TUBE ASSY	1	
	235-1026	.TUBE ASSY	1	
-26	235-1025	.TUBE ASSY	1	
-27	235-1027	.TUBE ASSY	1	
-28	103HD1/4X1/4	.VALVE ASSY (30327)	2	
-29	AN916-2D	.ELBOW, TUBE.....	2	
-30	AN822-6D	.ELBOW, TUBE.....	6	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-11	66J37253	BATTERY INSTALLATION	1	
-1	AN3150-2A	.BATTERY ASSY	2	
		(ATTACHING PARTS)		
-2	235-0156	.ROD, TIEDOWN, BATTERY	2	
-3	AN161-45RS	.FORK, TURNBUCKLE	2	
-4	AN5-7A	.BOLT, MACHINE	2	
-5	AN350-5	.NUT, PLAIN, WING	2	
-6	AN365-524	.NUT, SELF-LOCKING, HEXAGON	2	
-7	AN960-516	.WASHER, FLAT	2	
		---*---		
-8	235-1093-2	..COVER, BATTERY, RH, (ALTERED FROM AN3150-2)	1	
-9	49B7292	..CONNECTOR, RECEPTACLE, ELECTRICAL (71468)	1	
		(ATTACHING PARTS)		
-10	AN502-10-12	..SCREW, MACHINE	2	
-11	AN935-10	..WASHER, LOCK	2	
		---*---		
-12	11751-1	.CONNECTOR, PLUG, RECEPTACLE (71468)	1	
-13	20-87084-11	.TUBE, OVERFLOW (76301)	2	
-14	9555A	.ELBOW, RUBBER (77138)	2	
-15	235-1098	.TUBE ASSY, BATTERY COOLING, LH	1	
-16	235-1099	.TUBE ASSY, BATTERY COOLING, RH	1	
		(ATTACHING PARTS)		
-17	AN520-10R8	.SCREW, MACHINE	4	
-18	AN960-10	.WASHER, FLAT	4	
-19	AN935-10	.WASHER, LOCK	4	
-20	AN365-1032	.NUT, PLAIN, HEXAGON	4	
	MS21919G6	.CLAMP, PLAIN, SUPPORT	1	
		---*---		
-21	NO NUMBER	.TUBING, 3/8 ID, MIL-R-6885	AR	
		(ATTACHING PARTS)		
-22	AN737TW26	.CLAMP, HOSE	2	
		---*---		
-23	231-0391	.VALVE ASSY, BATTERY COOLING AIR	1	
-24	231-0391-10	..FLAPPER	1	
		(ATTACHING PARTS)		
-25	MS35206-213	..SCREW, MACHINE	2	
-26	AN936A4	..WASHER, LOCK	2	
-27	MS35206-220	..SCREW, MACHINE	1	
	AN936A4	..WASHER, LOCK	1	
	AN340C4	..NUT, PLAIN, HEXAGON	1	
		---*---		
-28	231-0391-12	..SHAFT	1	
-29	512-20M	..COIL, HELIX (73760)	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-11		(ATTACHING PARTS)		
-30	AN507-632R6	..SCREW, MACHINE	1	
-31	MS35333-37	..WASHER, LOCK	1	
-32	MS35649-262	..NUT, PLAIN, HEXAGON	1	
-33	AN5154R4	..SCREW, MACHINE	1	
-34	AN936A4	..WASHER, LOCK	1	
		---*---		
-35	231-0391-8	..HOUSING, BATTERY COOLING AIR VALVE	1	
-36	1096	.TAPE, ASBESTOS (75165)	AR	
-37	17	.CARLUG, BATTERY COMPART HEAT (99017)	1	
		(ATTACHING PARTS)		
	AN737RM56	.CLAMP, HOSE	1	
		---*---		
-38	AN848-8D	.ELBOW, HOSE BULKHEAD	1	
-39	MS24400D8	.NUT, BULKHEAD	1	
-40	LAC-1-892	.HOSE, VENT (36659) 1/2 IN. ID X 0.062 IN. WALL X 16 IN. LG	1	
		(ATTACHING PARTS)		
-41	AN737TW22-26	.CLAMP, HOSE	2	
		---*---		
-42	MS3548943	.GROMMET	1	
-43	MS24519-6	.ELBOW, PIPE TO HOSE	1	
		(ATTACHING PARTS)		
44	MS21104-15	.CLAMP	1	
	MS35206-248	.SCREW, MACHINE	1	
	AN960-8	.WASHER, FLAT	2	
	MS21044N08	.NUT	1	
		---*---		
-45	AN917-3	.TEE	1	
-46	AN840-8D	.ADAPTER, PIPE TO HOSE	1	
		(ATTACHING PARTS)		
-47	MS21104-12	.CLAMP	3	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-12	235-1000	ENGINE INSTALLATION (SEE FIGURE 4-3 FOR NHA)	1	
-1	PE15-2SPEC11	.ENGINE, (14351)(GFE)	1	
		(ATTACHING PARTS)		
-2	231-0366	.BUSHING, ENGINE MOUNT (MAKE FROM J-3049-18)(76005)	4	
-3	235-1007	.RETAINER, ENGINE MOUNT BUSHING	2	
-4	235-1008	.RETAINER, ENGINE MOUNT BUSHING	2	
-5	AN7-44A	.BOLT, MACHINE	2	
-6	AN7-33A	.BOLT, MACHINE	2	
-7	MS63040-7	.WASHER, FLAT	2	
-8	AN960-716	.WASHER, FLAT	4	
-9	MS21044N7	.NUT, SELF-LOCKING	4	
		---*---		
-10	235-3014	.FITTING ASSY, HOIST	1	
		(ATTACHING PARTS)		
-11	MS21044N7	.NUT, SELF-LOCKING, HEXAGON	4	
	AN960-716	.WASHER, FLAT	4	
		---*---		
-12	235-3014-12	..BRACKET ASSY, HOIST	1	
-13	235-3014-8	..RING, HOIST	1	
		(ATTACHING PARTS)		
-14	AN27-52A	..BOLT, MACHINE	1	
	AN320-7	..NUT, CASTELLATED, HEXAGON	1	
	AN380C33	..PIN, COTTER		
		---*---		
-15	235-3008	..BOOT ASSY, HOIST FITTING	1	
-16	235-1047-38	..DUCT ASSY, ENGINE COOLING AIR EXIT	1	
		(ATTACHING PARTS)		
-17	535213-62	..SCREW	20	
-18	C1779-10Z-1	..NUT, FLAT TYPE, SPEED	20	
		---*---		
-19	235-1012-14	.FAN ASSY, GENERATOR COOLING (AVR 90-65D638 DWG X 704-74C)	1	
		(ATTACHING PARTS)		
-20	AN3-7A	.BOLT	6	
	AN960-10	.WASHER	6	
	MS35333-39	.WASHER, LOCK	6	
		---*---		
	235-1012-2	.GASKET, GENERATOR FAN	1	
-21	AN6270-10-14	.HOSE ASSY	1	
	NO NUMBER	..HOSE, 5/8 IN. ID (MIL-H-5593A)	AR	
	MS28740-10	..ADAPTER, HOSE	2	
-22	AN816-10-12D	.NIPPLE, TUBE	1	
-23	AN909S12	.PLUG, PIPE	1	
-24	MS35769-15	.GASKET, ANNULAR	1	
-25	235-1013	.DRAIN, ENGINE OIL	1	
	AN816-12D	.NIPPLE, TUBE	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-12	AN929-12	.CAP, TUBE	1	
		---*---		
-26	AN909-16	.PLUG, PIPE	1	
-27	AN900-16	.GASKET, ANNULAR	1	
	AN900-28	.GASKET, ANNULAR	1	
-28	235-0111	.BAFFLE ASSY, GENERATOR COMPARTMENT LOWER RH	1	
		(ATTACHING PARTS)		
-29	AN515-8-8	.SCREW, MACHINE	4	
		---*---		
-30	G32-3F	.GENERATOR (31435)	2	
		(ATTACHING PARTS)		
-31	AN315-6R	.NUT, PLAIN, HEXAGON	12	
	AN960-616	.WASHER, FLAT	12	
	MS35338-46	.WASHER, LOCK	12	
		---*---		
-32A	2CM214B1B	.GENERATOR, BRUSH TYPE (24446) USED WITH CR7930NA123G4 VOLTAGE REGULATOR	1	
-32	28B94-5A	.ALTERNATOR (83298)	1	
		(ATTACHING PARTS)		
-33	AN315-6R	.NUT, PLAIN	12	
-34	MS35338-46	.WASHER, LOCK	12	
-35	AN960-616	.WASHER, FLAT	12	
		---*---		
-36	330-3026	.PLATE, COVER	1	
		(ATTACHING PARTS)		
-37	AN315-6R	.NUT, PLAIN	12	
-38	MS35338-46	.WASHER, LOCK	12	
-39	AN960-616	.WASHER, FLAT	12	
		---*---		
-40	710013-2.0-48	.DUCT ASSY, COOLING AIR FLEXIBLE (LH SIDE ONLY)	1	
		(ATTACHING PARTS)		
-41	AN737RM74	.CLAMP, HOSE	2	
-42	235-1057-18	.DUCT ASSY, COOLING AIR FLEXIBLE	1	
		(ATTACHING PARTS)		
-43	AN737RM58	.CLAMP, HOSE	2	
		---*---		
-44	235-1057-22	.DUCT ASSY, COOLING AIR FLEXIBLE	1	
		(ATTACHING PARTS)		
-45	AN737TW107	.CLAMP, HOSE	2	
-46	235-1057-16	.DUCT ASSY, COOLING AIR FLEXIBLE	1	
		(ATTACHING PARTS)		
-47	AN737RM58	.CLAMP, HOSE	2	
		---*---		
-48	235-1057-20	.DUCT ASSY, COOLING AIR FLEXIBLE	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-12		(ATTACHING PARTS)		
49	AN737TW107	.CLAMP, HOSE	2	
		---*---		
-50	AN62704-14	.HOSE ASSY	1	
	NO NUMBER	..HOSE, 5/8 IN. ID (MIL-H-5593A)	AR	
	MS2704-4D	..ADAPTER, HOSE	2	
-51	MS24398D64	.BUSHING, EXPANDER	1	
-52	AN6270-6-12	.HOSE ASSY	1	
	NO NUMBER	..HOSE, 3/8 IN. ID (MIL-H-5593A)	AR	
	MS28760-6	..ADAPTER, HOSE	2	
-53	MS20822-6D	.ELBOW	1	
-54	AN826-6D	.TEE, TUBE	1	
-55	AN912-2D	.BUSHING, REDUCER	1	
-56	626274	.VALVE, FUEL CUTOFF SOLENOID (73471)	1	
		(ATTACHING PARTS)		
-57	AN3-30A	.BOLT, MACHINE	2	
-58	102933D4ZR0750	.SPACER	2	
	AN960-10	.WASHER, FLAT	2	
	MS21042-3	.NUT, PLAIN, HEXAGON	2	
		---*---		
-59	B75-1	.RELAY, SOLENOID (79960)	2	
-60	L100W	.SWITCH, LOW OIL LEVEL (03479)	1	
-61	61A46004	.BRACKET, SWITCH LOW OIL LEVEL	1	
		(ATTACHING PARTS)		
	AN520-10R10	.SCREW	2	
	89897	.NUT (59443)	2	
	6339-002	.WASHER, FLAT (81601)	2	
	56-941-45	.WASHER, LOCK (75377)	2	
		---*---		
-62	61A46003	.VENT	1	
-63	61A46001	.BOLT	1	
-64	61A46002	.PLUG, SUMP	1	
-65	MS20913-3S	.PLUG, PIPE	2	
-66	AN901-8C	.GASKET	1	
-67	AN776-8	.ELBOW	1	
-68	MS27363H0200	.HOSE	1	
	NO NUMBER	..HOSE, 12/32 IN. ID X 1/2 IN. OD (MIL-H-8794)	AR	
	MS28740-8	..ADAPTER, HOSE	2	
	AN816-7D	.NIPPLE	1	
	AN915-2	.ELBOW	1	
-69	67C34302-1	.COVER ASSY, AIR INLET GEAR CASE	1	
		(ATTACHING PARTS)		
	AN737TW74	.CLAMP	1	
		---*---		
-70	A370397	.GOVERNOR, ENGINE (66503)	1	
-71	293-0621-8	.ARM ASSY, GOVERNOR CONTROL	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-12		(ATTACHING PARTS)		
-72	AN3-12A	.BOLT	1	
	AN960-10	.WASHER	2	
	MS21044-N3	.NUT	1	
		---*---		
-73	MS27975-2	.CLEVIS	1	
		(ATTACHING PARTS)		
-74	539755	.BUSHING, SLEEVE (14351)	1	
-75	MS35206-247	.SCREW	1	
	AN960-8	.WASHER, FLAT	1	
	MS21044N08	.NUT, SELF-LOCKING	1	
-76	X12218	.BALL-JOINT (14351)	1	
		(ATTACHING PARTS)		
	25164	.WASHER, SPECIAL (14351)	1	
		---*---		
-77	538726	.ROD ASSY, GOVERNOR CONTROL (14351)	1	
		(ATTACHING PARTS)		
	AN315-4R	.NUT	2	
	MS35338-44	.WASHER, LOCK	2	
		---*---		
-78	536161-A1	.ADAPTER ASSY, GOVERNOR OIL DRAIN	1	
-79	293-0620	.CLIP, GOVERNOR SPRING .	1	
		(ATTACHING PARTS)		
-80	AN345416	.NUT, PLAIN	1	
	AN960416	.WASHER, FLAT	1	
	MS35338-44	.WASHER, LOCK	1	
		---*---		
-81	C24-10FGX9	.ARM, CARBURETOR-GOVERNOR (79960)	1	
-82	293-0682	.SPRING, GOVERNOR CONTROL	1	
-83	AN816-6D	.NIPPLE	1	
-84	AN6270-6-12	.HOSE ASSY	1	
-85	MS20822-6D	.ELBOW	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-13		IGNITION SYSTEM INSTALLATION		
		(PARTS KIT AVAILABLE)	1	
	533224-2	.HARNESS ASSEMBLY	1	
		(ATTACHING PARTS)		
-1	AN501-10-10	.SCREW	4	
-2	AN935-10	.WASHER	4	
		---*---		
-3		..SCREW, CONTACT	6	
-4		..WASHER,BLOCK	6	
-5		..GROMMET, CABLE	1	
-6		..PLATE, CABLE OUTLET	1	
-7		..SLEEVE, CABLE	6	
	627025-22	..CONDUIT AND CONNECTOR ASSEMBLY	1	
	627021-30	..CONDUIT AND CONNECTOR ASSEMBLY	1	
	627025-36	..CONDUIT AND CONNECTOR ASSEMBLY	1	
	627025-30	..CONDUIT AND CONNECTOR ASSEMBLY	1	
	627025-40	..CONDUIT AND CONNECTOR ASSEMBLY	1	
	627021-34	..CONDUIT AND CONNECTOR ASSEMBLY	1	
-8	AN302-20-3	...PIN	1	
-9	AN4164-2	...SLEEVE	1	
-10	626719	...GROMMET, TERMINAL COLLAR	1	
-11	627046	...ELBOW	1	
-12	626720	...GROMMET, SPACER	1	
-13	NO NUMBER	...CABLE, IGNITION	AR	
-14	627026-22	..CONDUIT ASSEMBLY	1	
-15	627023-30	..CONDUIT ASSEMBLY	1	
-16	627026-36	..CONDUIT ASSEMBLY	1	
-17	627026-30	..CONDUIT ASSEMBLY	1	
-18	627026-40	..CONDUIT ASSEMBLY	1	
-19	627023-34	..CONDUIT ASSEMBLY	1	
-20	532767	.GROMMET, WIRE	6	
-21	**MS51009-1**	.SPARK PLUG	6	
-22	MS35910-1	..GASKET	1	
-23	533417	.FILTER ASSEMBLY	1	
		(ATTACHING PARTS)		
-24	MS35649-82	.NUT	2	
-25	AN936B8	.LOCKWASHER	2	
-26	AN515-8-5	.SCREW	2	
		---*---		
	AN3105-9	..TERMINAL	1	
-27	AN3105-2	...SPRING	1	
-28	AN3105-3	...PLUG	1	
-29	AN3105-10	...GROMMET ASSEMBLY	1	
-30	533474	.BRACKET, FILTER	1	
		(ATTACHING PARTS)		
-31	10-57161	.SCREW	2	
		---*---		
	531180	.GEAR ASSEMBLY	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-13-32	531177	..SLEEVE	1	
-33	352037	..BUSHING, DRIVE GEAR	1	
-34	531176	..GEAR, DRIVE	1	
-35	531178	.RETAINER, COUPLING	1	
-36	531179	.BUSHING, COUPLING	1	
-37	10-52350-6	.MAGNETO ASSEMBLY	1	
	10-52350-20	.MAGNETO ASSEMBLY	1	
-38	AN121503	.NUT	1	
-39	AN936A 1516	.LOCKWASHER	2	
-40	401506	.WASHER, PLAIN ---*---	2	
-41	535324	.GASKET, MAGNETO	1	
4-14-		CARBURETOR INSTALLATION	1	
-1	MS2083-6	.Elbow	1	
-2	X-5225	.Extension, adapter	1	
-3	627813-1	.Lever Assembly, carburetor	1	
-4	11327	.Carburetor Assembly Model 11ADX 12 (MFD by 79960) (533118) (Attaching Parts)	1	
-5	AN121504	.Nut	4	
-6	AN936A616	.Lockwasher	4	
-7	AN960-616L	.Washer	4	
	AN960-616	.Washer ---*---	4	
-8	533456	.Gasket, Carburetor-to-intake manifold (KFP)	1	
-9	340-6160004-7	.Terminal, Wire (14170)	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-15	235-1080	WINTERIZATION INSTALLATION		
		(SEE FIGURE 4-3 FOR NHA)	1	
-1	SCEETS8-60-6	.DUCT ASSY, COOLING AIR (48170)	1	
		(ATTACHING PARTS)		
-2	AN737TW74	.CLAMP, HOSE	2	
		---*---		
-3	235-0098	.DUCT ASSY, HOT AIR GEAR BOX		
		AND BATTERY	1	
		(ATTACHING PARTS)		
-4	AN520-10R8	.SCREW, MACHINE	2	
-5	MS35338-100	.WASHER, LOCK	2	
-6	AN960-10	.WASHER, FLAT	2	
-7	MS35650-302	.NUT, PLAIN, HEXAGON	2	
		---*---		
-8	235-0096	.BRACKET, TEMPERATURE CONTROL	1	
		(ATTACHING PARTS)		
-9	AN520-10R8	.SCREW, MACHINE	4	
-10	AN960-10	.WASHER, FLAT	4	
-11	MS35338-100	.WASHER, LOCK	4	
-12	MS35650-302	.NUT, PLAIN, HEXAGON	4	
		---*---		
-13	1339G1	.TEMPERATURE CONTROL (46522)	1	
		(ATTACHING PARTS)		
-14	AN520-10R6	.SCREW, MACHINE	1	
-15	MS35338-43	.WASHER, LOCK	1	
-16	AN960-10	.WASHER, FLAT	1	
		---*---		
-17	235-1057-52	.DUCT ASSY, COOLING AIR	1	
		(ATTACHING PARTS)		
-18	AN737RM58	.CLAMP, HOSE	2	
		---*---		
-19	235-1084	.SPOUT ASSY	1	
-20	235-1057-60	.DUCT ASSY, COOLING AIR	1	
		(ATTACHING PARTS)		
-21	AN737RM56	.CLAMP, HOSE	2	
		---*---		
-22	1096	.TAPE, ASBESTOS (75165)	AR	
-23	63F40357	.MANIFOLD (98749)	1	
		(ATTACHING PARTS)		
	AN509-10R9	.SCREW	4	
		---*---		
-24	SCEETS8-60-6	.DUCT (48170)	1	
		(ATTACHING PARTS)		
	AN737TW74	.CLAMP	2	
-25	63D40389-5	.CONNECTOR (98749)	1	
		---*---		
-26	BACD40A10-80-6A16	.DUCT (81205)	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-15		(ATTACHING PARTS)		
	AN737RM91	.CLAMP	2	
		---*---		
	63D40389-3	.SHIM	1	
	MS20426AD4-6	.RIVET	2	
	GA5-312	.GROMMET	1	
	S5A-200	.SPRING	1	
	AJW540	.FASTENER	1	
-27	293-0671	.ADAPTER, REDUCER	1	
-28	235-1057-62	.DUCT ASSY	1	
-29	235-3071	.TUBE ASSY, TEE WARM AIR	1	
-30	AN737RM56	.CLAMP, HOSE	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-16	668J41505	BOX ASSY, CONTROL (SEE FIG. 4-15 AND 4-16 FOR DETAILS)	1	
		(ATTACHING PARTS)		
-1	MS24694S52	SCREW, MACHINE	5	
	AN520-10R8	SCREW, MACHINE	1	
	AN960-10OL	WASHER, FLAT	1	
		---*---		
	235-0040-1	.BOX ASSY, CONTROL	1	
	235-0040-628	..DOOR ASSY, CONTROL BOX SPLIT BUS SYSTEM	1	
		(ATTACHING PARTS)		
-2	235-0040-92	..PIN, HINGE	1	
		---*---		
-3	H5000C-K181 -312	...LATCH ASSY (83014)	3	
-4	111740-03306	...EXTRUSION, RUBBER	1	
-5	293-0676-1	...SHIELD	1	
-6	2601	...SOCKET, LIGHT S. C. (13445)	2	
		(ATTACHING PARTS)		
-7	AN742-11	...CLAMP, LOOP	2	
-8	MS24693S51	...SCREW, MACHINE..	2	
	MS21044N08	...NUT, PLAIN, HEXAGON	2	
		---*---		
	235-0046	..PANEL ASSY, CONTROL BOX	1	
		(ATTACHING PARTS)		
-9	235-0040-88	..PIN, HINGE	1	
		---*---		
-10	235-0046-16	..WINDOW, CONTROL BOX PANEL	1	
-11	235-0046-20	...SEAL, CONTROL BOX PANEL	1	
-12	231-0393	...COVER, PANEL LATCH	2	
-13	231-0395	...HANDLE ASSY, PANEL LATCH	2	
-14	235-0046-14	...PANEL, CONTROL BOX	1	
-15	68D41508	..SUPPORT ASSY, INSTRUMENT PANEL	1	
		(ATTACHING PARTS)		
-16	AN515-8R7	..SCREW, MACHINE	2	
		---*---		
	235-0040-618	..DOOR ASSY, CONTROL BOX	1	
		(ATTACHING PARTS)		
-17	235-0040-90	..PIN, HINGE	1	
		---*---		
-18	H5000C-K181 -312	...LATCH ASSY (83014)	2	
-19	293-3138	...PLATE	1	
	235-0040-612	..COVER ASSY, PLUG PANEL	1	
		(ATTACHING PARTS)		
-20	99835-2-170	..RECEPTACLE, TURNLOCK FASTENER (61864)	4	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-16-20	99836	..PIN, CROSS (61864)	4	
-21	235-0040-34	...COVER, PLUG PANEL	1	
-22	235-0048	..SPRING, PANEL LATCH	2	
-23	235-0062-1	..SUPPORT, CONTROL BOX UD (ALTERED FROM P/N 50-935 MFD BY 01930)	1	
		(ATTACHING PARTS)		
-24	AN525-10R8	..SCREW, MACHINE	1	
	MS21044-N3	..NUT, SELF-LOCKING HEXAGON	1	
	22A5-02	..NUT, SELF-LOCKING PLATE (72962)	1	
		---*---		
-25	235-0040-56	..BRACKET, INSTRUMENT SUPPORT LH	1	
-26	235-0040-57	..BRACKET, INSTRUMENT SUPPORT RH	1	
		(ATTACHING PARTS)		
-27	A321	..MOUNT, RUBBER (61463)	2	
-28	MS35338-42	..WASHER, LOCK	4	
-29	MS35649-282	..NUT, PLAIN, HEXAGON	4	
		---*---		
-30	111177-01608	..EXTRUSION, RUBBER	1	
-31	111177-02716	..EXTRUSION, RUBBER	1	
-32	111177-03116	..EXTRUSION, RUBBER	2	•
-33	111177-02022	..EXTRUSION, RUBBER	1	
-34	235-0040-602	..FRAME ASSY, CONTROL BOX (USE AS SPARE ASSY)	1	
-35	69D38389	.DECAL, OPERATING INSTRUCTIONS	1	
-36	68K41702	.DECAL, WIRING DIAGRAM	1	
-37	68F41758	.DECAL, INSTRUMENT CONTROL PANEL	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-17	69F38320	WIRING AND CABLE INSTALLATION, CONTROL BOX 400 HERTZ (SEE FIG 1 FOR NHA)	1	
-1	68D41466	.HARNESS ASSY, ENGINE CONTROL	1	
	MS3106R20-15S	..CONNECTOR, PLUG, ELECTRICAL	1	
-2	68E41468	.HARNESS ASSY, AC GENERATOR CONTROL	1	
	MS3106R20-16P	..CONNECTOR, PLUG, ELECTRICAL	1	
	MS3106R24-7S	..CONNECTOR, PLUG, ELECTRICAL	1	
	MS3106R145-P	..CONNECTOR, PLUG, ELECTRICAL	1	
	MS3106R14S6S	..CONNECTOR, PLUG, ELECTRICAL	1	
	RW31G150	..RESISTOR, FIXED, WIRE-WOUND, 15 OHM 10W	1	
	MS25089-3C	..SWITCH, PUSHBUTTON	1	
	MS25171-1S	..CABLE, NIPPLE	3	
	MS25171-2S	..CABLE, NIPPLE	1	
-3	68E41465	.HARNESS ASSY, GENERATOR NO.3	1	
	MS3106R18-9P	..CONNECTOR, PLUG, ELECTRICAL	1	
	MS3106R24-7S	..CONNECTOR, PLUG, ELECTRICAL	1	
-4	68F41463	..HARNESS ASSY, GENERATOR NO.4	1	
	MS3106R18-9S	..CONNECTOR, PLUG, ELECTRICAL	1	
	MS3106R24-7S	..CONNECTOR, PLUG, ELECTRICAL	1	
-5	66C41264	.HARNESS ASSY, THERMOCOUPLE	1	
	S3106R18-15P	..CONNECTOR, PLUG, ELECTRICAL	1	
	MIL-W-5845B	..WIRE, THERMOCOUPLE, TYPE II, CLASS A	5 ft	
	AN5538-1	..TERMINAL LUG	6	
	AN5538-1	..TERMINAL LUG	2	
-6	68D41467	.HARNESS ASSY, GENERATOR 400 HERTZ	1	
	MS3106R18-20S	..CONNECTOR, PLUG, ELECTRICAL	1	
-7	105982-6A13-008	.BOLT	1	
-8	AN360-6	.NUT	1	
	AN961-616	.WASHER,FLAT	2	
	MS35338-103	.WASHER, LOCK	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-17-9	66C42140-38	.CABLE ASSY	1	
-10	231-0205	.NUT	4	
	AN935B816	.WASHER, LOCK .	4	
-11	66C42140-30	.CABLE ASSY (BATT POWER TERM TO BATT RCR)	1	
-12	66C4214046	.CABLE ASSY (DC POWER TERM TO BUS NO. 4 RCR)	1	
-13	66C42140-34	.CABLE ASSY (EXT POWER RECEPT TO BATT RCR)	1	
-14	66C42140-82	.CABLE ASSY (NO. 4 RCR TO BATT RCR)	1	
-15	A3104-2	.CLAMP(90763)	3	
-16	68D41470	.HARNESS ASSY, BATT POWER	1	
-17	A3104-5	.CLAMP (90763)	6	
-18	A3104-3	.CLAMP (90763)	4	
-19	A3104-2	.CLAMP (90763)	5	
-20	A3104-4	.CLAMP (90763)	3	
-21	MS35489-19	.GROMMET	2	
	49138	.CLAMP (90763)	3	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-18	235-2000-1	EQUIPMENT AND SPLIT BUS IN- STALLATION, CONTROL BOX	1	
	68J41505	EQUIPMENT AND 400 HZ IN- STALLATION, CONTROL BOX -	1	
-1	1507843	.GAGE, OIL PRESSURE (70040) (GFE) .....1 (ATTACHING PARTS)		
-2	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-3	1548091	.TACHOMETER (70040)	1	
		(ATTACHING PARTS)		
-4	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-5	MS90410-2	.GAGE, CYLINDER HEAD AND OIL TEMPERATURE (65092)	1	
		(ATTACHING PARTS)		
-6	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-7	M1656	.METER, ENGINE HOUR (74400)	1	
		(ATTACHING PARTS)		
-8	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-9	MS24332	.VOLTMETER, AC	1	
		(ATTACHING PARTS)		
-10	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-11	8AW43AAA213	.AMMETER (24446)	1	
		(ATTACHING PARTS)		
-12	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-13	RDC264010	.VOLTMETER, DC (MIL-T-5385)	2	
		(ATTACHING PARTS)		
-14	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-15	560-234	.AMMETER (28569)	2	
		(ATTACHING PARTS)		
-16	MS35214-29	.SCREW, MACHINE	4	
		---*---		
-17	AN3022-2	.SWITCH, TOGGLE	1	
		(ATTACHING PARTS)		
-18	MS35214-27	.SCREW, MACHINE	2	
		---*---		
-19	MS25104-31	.SWITCH, TOGGLE	2	
		(ATTACHING PARTS)		
-20	MS35214-27	.SCREW, MACHINE	2	
		---*---		
-21	MS25231-313	.LAMP, INCAND	2	
-22	MS25331-7	.LIGHT ASSY (GREEN)	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-18-23	MS25231-313	.LAMP, INCAND	2	
-24	MS25331-8	.LIGHT ASSY (AMBER)	2	
-25	AN3220-2	.KNOB, POINTER	1	
-26	MS25002-1	.SWITCH, ROTARY	1	
-27	MS25103-23	.SWITCH, TOGGLE	1	
		(ATTACHING PARTS)		
-28	MS35214-27	.SCREW, MACHINE	2	
		---*---		
-29	MS25231-313	.LAMP, INCAND	1	
-30	MS25331-9	.LIGHT ASSY (RED)	1	
-31	MS24506-15	.CIRCUIT BREAKER	1	
		(ATTACHING PARTS)		
-32	MS35214-27	.SCREW, MACHINE	2	
		---*---		
-33	MS25103-23	.SWITCH, TOGGLE	1	
		(ATTACHING PARTS)		
-34	MS35214-27	.SCREW, MACHINE	2	
		---*---		
-35	40E17-1B	.REGULATOR, VOLTAGE (19315)	2	
	3S2795B110A1	.REGULATOR, VOLTAGE (24446)		
		(ALTERNATE FOR 40E17-1B)	REF	
		---*---		
-36	49C7573	.BASE, REGULATOR(19315)	2	
		(ATTACHING PARTS)		
-37	MS35649-282	.NUT, PLAIN HEXAGON	24	
	AN935-8	.WASHER, LOCK	24	
	50679	.MOUNT, RUBBER (61463)	12	
		---*---		
-38	AN931-11	.GROMMET, ELASTIC	2	
-39	MS27212-1-8	.TERMINAL BLOCK, ELECTRICAL	2	
		(ATTACHING PARTS)		
-40	MS35206-215	.SCREW, MACHINE	2	
	MS21044-N04	.NUT, SELF-LOCKING, HEXAGON	2	
		---*---		
-41	AN3432-6-12	.TERMINAL, STUD	16	
	AN341-632	.NUT, PLAIN, HEXAGON	32	
	AN961-6	.WASHER,FLAT	32	
	AN935B6	.WASHER, LOCK	32	
	MS25226-2-7	.BUS, TERMINAL BLOCK	2	
-42	RYU1/A	.RELAY, OVERVOLTAGE (74063)	1	
		(ATTACHING PARTS)		
-43	AN520-10R10	.SCREW, MACHINE	3	
	AN960-10	.WASHER, FLAT	3	
		---*---		
-44	PR9502AC	.RELAY (TYPE M2) (77221)	3'	
		(ATTACHING PARTS)		
-45	AN520-10R10	.SCREW, MACHINE	4	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-18-45	AN960-10	.WASHER, FLAT	4	
		---*---		
-46	AN5534-1	.RESISTOR, THERMOCOUPLER	2	
		(ATTACHING PARTS)		
-47	MS35206-247	.SCREW, MACHINE	2	
	AN960-8	.WASHER, FLAT	2	
		---*---		
-48	MS25206-245	.SCREW, MACHINE	2	
	AN960-8	.WASHER, FLAT	2	
	AN365-832	.NUT, SELF-LOCKING, HEXAGON	2	
-49	231-0194	.SPACER, TERMINAL	1	
		(ATTACHING PARTS)		
-50	AN520B10R22	.SCREW, MACHINE	1	
	100951P093-006-024	.WASHER	1	
	AN960B10	.WASHER, FLAT	3	
	MS35338-100	.WASHER, LOCK	1	
	1819	.NUT, INSULATED BINDING POST	1	
		---*---		
-51	AN2552-3A	.RECEPTACLE, EXTERNAL POWER	1	
		(ATTACHING PARTS)		
-52	AN510-10R16	.SCREW, MACHINE	2	
		---*---		
-53	MS27212-1-8	.TERMINAL BLOCK, ELECTRICAL	1	
		(ATTACHING PARTS)		
-54	AN5154R6	.SCREW, MACHINE	2	
	AN365440	.NUT, SELF-LOCKING, HEXAGON	2	
		---*---		
-55	AN961-6	.WASHER, FLAT	12	
	AN936A6B	.WASHER, LOCK	12	
	MS21044N6	.NUT, SELF-LOCKING, HEXAGON	6	
	MS35649-265	.NUT, PLAIN, HEXAGON	6	
-56	MS25226-2-6	.BUS, TERMINAL BLOCK	1	
-57	231-0194	.SPACER,TERMINAL	2	
		(ATTACHING PARTS)		
-58	AN520B10R26	.SCREW, MACHINE	1	
	100951P093-006-024	.WASHER	1	
	AN960B10	.WASHER,FLAT	3	
	MS21083B3	.NUT, PLAIN, HEXAGON	2	
	MS35338-100	.WASHER, LOCK		
-59	235-2098	.BLOCK, OUTPUT TERMINAL	1	
		(ATTACHING PARTS)		
-60	MS35207-265	.SCREW, MACHINE	6	
	AN960-10	.WASHER, FLAT	6	
		---*---		
-61	235-2095	.POST, TERMINAL	3	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-18-62	235-2119	.BUSHING, BUS CONNECTOR	3	
-63	235-2122	.BUS, NO. 3 REVERSE CURRENT RELAY	1	
		(ATTACHING PARTS)		
	AN935B816	.WASHER, LOCK	1	
-64	231-0205	.NUT, FULL	1	
		---*--		
-65	235-2123	.BUS, NO. 4 REVERSE CURRENT RELAY	1	
		(ATTACHING PARTS)		
	AN935B816	.WASHER, LOCK	1	
-66	231-0205	.NUT, FULL	1	
		---*---		
-67	235-2136	.BUS, NOS. 3 AND 4 RELAYS TO OUTPUT		
		.TERMINAL	1	
		(ATTACHING PARTS)		
	AN935B816	.WASHER, LOCK	1	
-68	231-0205	.NUT, FULL	1	
		---*---		
-69	235-2012	.BLOCK, INPUT TERMINAL	1	
		(ATTACHING PARTS)		
-70	AN520-1OR12	.SCREW, MACHINE	8	
	AN960-10	.WASHER, FLAT	8	
-71	20B82-3A	.REGULATOR, VOLTAGE (83298)	1	
	68C41691	.BASE, MOUNTING, REGULATOR	1	
		(ATTACHING PARTS)		
-71A	CR7930NA123G4	.VOLTAGE REGULATOR (24446)	1	
-72	AN520-10R10	.SCREW, MACHINE	8	
	AN960-10	.WASHER, FLAT	8	
		---*---		
-73	AN3025-300	.CUTOUT, REVERSE CURRENT	1	
		(ATTACHING PARTS)		
-74	AN520-10R10	.SCREW, MACHINE	4	
	AN960-10	.WASHER, FLAT	4	
		---*---		
-75	A702AP	.CUTOUT, REVERSE CURRENT (74063)	3	
		(ATTACHING PARTS)		
-76	AN520-10R10	.SCREW, MACHINE	4	
	AN960-10	.WASHER, FLAT	4	
		---*---		
-77	AN3131-303	.LAMP INCANDESCENT	2	
-78	AN931A3-5	.GROMMET, ELASTIC	3	
-79	235-2090	.TERMINAL, FEEDTHRU, INSULATED	1	
		(ATTACHING PARTS)		
-80	235-2094	.BOLT, TERMINAL	6	
	AN960B816	.WASHER, FLAT	6	
	AN935B816	.WASHER, LOCK	6	
	231-0204	.NUT, JAM	6	
		---*---		
-81	235-2091	.BUS, BATTERY TO GENERATOR	6	
		(ATTACHING PARTS)		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-18-82	235-2058	.BOLT, LONG TERMINAL	6	
-83	235-2119	.BUSHING, BUS CONNECTOR	3	
	AN935B816	.WASHER, LOCK	6	
	231-0204	.NUT, JAM	3	
		---*---		
-84	235-3113	.BUS, OUTPUT TO CONTACTOR, LOWER	1	
-85	235-3114	.BUS, OUTPUT TO CONTACTOR, UPPER	1	
-86	231-0206	.TERMINAL, STUD	1	
	AN960-816	.WASHER, FLAT	2	
	AN935-816	.WASHER, LOCK	2	
	231-0204	.NUT, JAM	2	
	235-2116	.INSULATOR	1	
-87	CL276	.METER, FREQUENCY (14704)	1	
-88	51142	.PLUG, BUTTON (61864)	1	
-89	51118	.PLUG, BUTTON (61864)	4	
-90	NO NUMBER	.TRANSMITTER, FREQUENCY (P/O CL276) (INTERCHANGEABLE WITH P/N 6500-2)	1	
		(ATTACHING PARTS)		
	MS35207-263	.SCREW, MACHINE	4	
	MS27183-10	.WASHER, FLAT	4	
		---*---		
-91	A846-1	.RELAY, UNDERFREQUENCY (74063)	1	
		(ATTACHING PARTS)		
	MS35207-264	.SCREW, MACHINE	4	
	MS27183-10	.WASHER, FLAT	4	
-92	ID48F/400	.RESISTOR, FIELD FLASHING 400 OHM 5 W (44655)	2	
		(ATTACHING PARTS)		
	AN515-8R24	.SCREW, MACHINE	2	
	AN960-8	.WASHER, FLAT	2	
	100951P01-006-026	.WASHER, FLAT	4	
		---*---		
-93	69C38088	.BLOCK, INPUT TERMINAL	1	
-94	68C41692	.BUS NO. 3, REVERSE CURRENT	1	
-95	68C41693	.BUS NO. 4, REVERSE CURRENT	1	
-96	TD808J	.RELAY, OVERVOLTAGE (74063)	1	
		(ATTACHING PARTS)		
	MS35207-264	.SCREW, MACHINE	4	
	MS27183--10	.WASHER, FLAT	4	
		---*---		
-96A	21-047	.RELAY OVERVOLTAGE	1	
-97	69C38758-3	.DECAL (FREQUENCY INDICATOR TEST)	1	
-98	MS24568-01	.RELAY A/C LOCKOUT	1	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-19	235-2213	HARNESS INSTALLATION, ENGINE AND CHASSIS (SEE FIGURE 4-3 FOR NHA)	1	
-1	66C42140-54	.CABLE ASSY, BATTERY POWER POSITIVE RH	1	
	MS25036-133	..TERMINAL LUG (00779)	2	
-2	66C42140-5	.CABLE ASSY, BATTERY POWER POSITIVE LH	1	
	MS25036-133	..TERMINAL, LUG (00779)	2	
-3	66C42140-58	.CABLE ASSY, BATTERY POWER POSITIVE	1	
	MS25036-133	..TERMINAL, LUG (00779)	1	
	MS25036-134	..TERMINAL, LUG	1	
-4	66C42140-62	.CABLE ASSY, BATTERY POWER POSITIVE	1	
	MS25036-133	..TERMINAL, LUG	2	
-5	235-2115	.BLOCK ASSY, BATTERY JUNCTION POSITIVE	1	
-6	235-2116	.INSULATOR, BATTERY JUNCTION POSITIVE	1	
		(ATTACHING PARTS)		
-7	AN520-1OR10	.SCREW, MACHINE	2	
	AN960-10	.WASHER, FLAT	2	
	AN935-10	.WASHER,LOCK	2	
	MS35650-302	.NUT, PLAIN, HEXAGON	2	
		---*---		
-8	231-0416	.HARNESS ASSY, FRONT DRIVE SYSTEM	1	
		(ATTACHING PARTS)		
-9	AN515-4R6	.SCREW, MACHINE	4	
	MS27183-4	.WASHER, FLAT	4	
	MS35338-40	.WASHER, LOCK	4	
	MS35649-242	.NUT, PLAIN, HEXAGON	4	
		---*---		
	MS3102R14-3S	..RECEPTACLE, PLUG, ELECTRICAL	1	
	MS3100R14-3S	..RECEPTACLE	1	
	M2A-8	..WIRE, 8 AWG, MIL-W-5086 (10 INCHES READ)	AR	
	MS25036-117	..TERMINAL	1	
-10	D6364-2-120	.CIRCUIT BREAKER (82647)	1	
		(ATTACHING PARTS)		
-11	MS35206-243	.SCREW	4	
		---*---		
-12	MS35489-118	.GROMMET, FRONT DRIVE WIRE ASSEMBLY	1	
-13	A3104-4	.CLAMP, HARNESS ASSY (90763)	4	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1234567	QTY PER ASSY	USABLE ON CODE
4-19-14	MS35489-6	.GROMMET, BATTERY POWER WIRE ASSY	1	
-15	112149-20	.GROMMET, BATTERY POWER HARNESS	4	
-16	112436-6	.RETAINER, BATTERY POWER HARNESS	2	
-17	49338	.STUD, BATTERY POWER HARNESS (61864)	4	
-18	66C42140-78	.CABLE ASSY, BATTERY POWER NEGATIVE	1	
	MS25036-133	.TERMINAL, LUG (00779)	1	
	MS25036-134	.TERMINAL, LUG	1	
-19	66C42140-74	.CABLE ASSY, BATTERY POWER NEGATIVE	1	
	MS25036-133	.TERMINAL, LUG (00779)	2	
-20	66C42140-70	.CABLE ASSY, BATTERY POWER NEGATIVE RH	1	
	MS25036-133	.TERMINAL, LUG (00779)	2	
-21	66C42140-66	.CABLE ASSY, BATTERY POWER NEGATIVE LH	1	
	MS25036-133	.TERMINAL, LUG (00779)	2	
		(ATTACHING PARTS)		
-22	105982-6A14-005	.BOLT	1	
	AN960-616	.WASHER, FLAT	2	
	AN935-616	.WASHER, LOCK	2	
	AN360-6	.NUT, SELF-LOCKING, HEXAGON	2	
		---*---		
-23	A3104-3	.CLAMP (90763)	10	
-24	69D37706	.HARNESS ASSY, MISCELLANEOUS, CHASSIS	1	
	MS25036-108	..TERMINAL, LUG	5	
	AN659-11	..TERMINAL, LUG	3	
	MS25036-125	..TERMINAL, LUG	2	
	B71G	..TERMINAL, LUG (59730)	1	
	MS20659-145	..TERMINAL, LUG (59730)	1	
-25	AN3430-7	.CABLE ASSY, POWER, ELECTRICAL, 115/200V, 3 PHASE	1	
-26	293-0625	.CLAMP ASSY	1	
-27	BA104H	.CONTACTOR (74063)	1	
-28	MS27212-3-2	.BLOCK TERMINAL	1	
-29	A3104-1	.CLAMP, HARNESS ASSY (90763)	1	
-30	A3104-3	.CLAMP, HARNESS ASSY (90763)	2	
		(ATTACHING PARTS)		
-31	AN520-10R	.SCREW, MACHINE	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-19-32	A3104-3	.CLAMP, HARNESS ASSY (90763)	4	
-33	235-2017	.STUD	1	
	AN960-616	.WASHER, FLAT	4	
	AN935-616,	.WASHER, LOCK	4	
	AN360-6	.NUT, SELF-LOCKING, HEXAGON	4	
-34	68D41469	.HARNESS ASSY, ENGINE COMPARTMENT	1	
	MS3100R20-15P	..CONNECTOR, RECEPTACLE, ELECTRICAL	1	
		(ATTACHING PARTS)		
	AN51 5-4R6	..SCREW, MACHINE	4	
	AN960-4	..WASHER, FLAT	4	
	AN935-4	..WASHER, LOCK	4	
	MS35649-242	..NUT, PLAIN, HEXAGON	4	
		---*---		
	AN3057-12A	..ADAPTER, CABLE TO CONNECTOR	1	
	MS25036-3	..TERMINAL, LUG	3	
	MS25036-12	..TERMINAL, LUG	7	
	YZ10G2	..SPLICE, CONDUCTOR, KNIFE DISCONNECT (00992)	8	
	YZ18H2	..SPLICE, CONDUCTOR, KNIFE DISCONNECT (00992)	3	
	MS25036-156	..TERMINAL, LUG (59730)	5	
-35	68D41462	.HARNESS ASSY, ENGINE COMPARTMENT	1	
		(ATTACHING PARTS)		
	AN515-4R6	..SCREW, MACHINE	8	
	AN960-4	..WASHER, FLAT	8	
	AN935-4	..WASHER, LOCK	8	
	MS35649-242	..NUT, PLAIN, HEXAGON	8	
		---*---		
-36	68D41662	.HARNESS ASSY, GENERATOR PLUG DC	1	
	68D41461	.HARNESS ASSY, GENERATOR PLUG AC	1	
	MS3100R18-9S	..CONNECTOR, RECEPTACLE, ELECTRICAL	1	
	MS3100-R18-9P	..CONNECTOR, RECEPTACLE, ELECTRICAL	1	
	MS3100-R20-16S	..CONNECTOR, RECEPTACLE, ELECTRICAL	1	
		(ATTACHING PARTS)		
-37	AN515-4R6	..SCREW, MACHINE	12	
	AN960-4	..WASHER, FLAT	12	
	AN9354	..WASHER,LOCK	12	
	MS35649-242	..NUT, PLAIN, HEXAGON	12	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-19	MS3106R28-9S	..CONNECTOR, PLUG, ELECTRICAL	1	
	MS25036-8	..TERMINAL, LUG	6	
	YZ14-H1	..SPLICE, CONDUCTOR, KNIFE DISCONNECT (00992)	4	
-38	66C41197	.HARNESS ASSY, THERMOCOUPLE, ENGINE COMPARTMENT	1	
	MS3100R18-15S	..CONNECTOR, RECEPTACLE, ELECTRICAL	1	
		(ATTACHING PARTS)		
	AN515-4R6	..SCREW, MACHINE	4	
	AN960-4	..WASHER, FLAT	4	
	AN935-4	..WASHER,LOCK	4	
	MS35649-242	..NUT, PLAIN, HEXAGON	4	
		---*---		
	AN5539-1	..TERMINAL, LUG	2	
	AN5539-2	..TERMINAL, LUG	2	
-39	742	.STRAP, GROUND (WTR)	1	
-40	MS24506-15	.CIRCUIT BREAKER	1	
-41	9350G	.RECEPTACLE, 115 AC 400 HERTZ (74545)	2	
-42	9JY16AA2	.TRANSFORMER, CURRENT (MIL-T-5383 type D1)	1	
	AN520-10R10	.SCREW, MACHINE	2	
	AN960-10	.WASHER, FLAT	2	
-43	66C42140-102	.CABLE ASSY, AC GEN NEGATIVE	1	
-44	66C42140-106	.CABLE ASSY, AC GEN OUTPUT "A"	1	
-45	66C42140-110	.CABLE ASSY, AC GEN OUTPUT "B"	1	
-46	66C42140-114	.CABLE ASSY, AC GEN OUTPUT "C"	1	
-47	66C42140-90	.CABLE ASSY, AC GEN OUTPUT "A"	1	
-48	66C42140-94	.CABLE ASSY, AC GEN OUTPUT		
		---*---		
-49	66C42140-98	.CABLE ASSY,AC GEN OUTPUT		
		---*---		
-50	66C42140-86	.CABLE ASSY, AC GEN NEGATIVE	1	
-51	293-0629	.BASE, CURRENT LIMITER MOUNTING	1	
-52	293-0630	.PLATE. BASE INSULATION CURRENT LIMITER	1	
-53	MS90726-34	.BOLT, MACHINE	6	
-54	AN315-5R	.NUT, PLAIN HIEX	12	
-55	ANL-175	.LIMITER, CURRENT	6	
-56	AN5-14A	.BOLT, MACHINE	2	
-57	NAS43HT5-12	.SPACER	2	
-58	MS35426-15	.NUT, PLAIN WING	2	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-19-59	NAS43HT5-24	.SPACER	4	
-60	293-0628	.COVER	1	
-61	MS35426-14	.NUT, PLAIN WING	4	
-62	MS90726-17	.BOLT	4	
-63	AN315-4R	.NUT, PLAIN HEX	4	
-64	NAS43HT4-96	.SPACER	4	

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-20	235-3107	SPLIT BUS AND SHUNT INSTALLATION, CABLE COMPARTMENT (SEE FIGURE 4-3 FOR NHA)	1	
-1	235-2077	.BUS, GROUND CONNECTION	1	
-2	235-3110	.BUS, GROUND CONNECTION	1	
		(ATTACHING PARTS)		
-3	231-0208	.SCREW, CAP	2	
	AN960B816	.WASHER, FLAT	2	
	AN935B816	.WASHER, LOCK	2	
	231-0205	.NUT,JAM	2	
		---*---		
-5	235-2137	.CLAMP, HARNESS	2	
-6	AN3-13A	.BOLT, MACHINE	2	
	AN960-10	.WASHER,FLAT	4	
	AN935-10	.WASHER, LOCK	2	
	MS35650-302	.NUT, PLAIN, HEXAGON	2	
		---*---		
-7	235-2138	.CLAMP, HARNESS	1	
		(ATTACHING PARTS)		
-8	AN3-5A	.BOLT, MACHINE	2	
	AN960-10	.WASHER, FLAT	2	
		---*---		
-9	235-2139	.CLAMP, HARNESS	1	
		(ATTACHING PARTS)		
-10	AN6-6A	.BOLT, MACHINE	2	
	AN960-616	.WASHER, FLAT	2	
	MS35338-46	.WASHER, LOCK	2	
	AN360-6	.NUT, SELF-LOCKING, HEXAGON	2	
		---*---		
-11	235-3124	.BOLT	1	
	AN960B616	.WASHER, FLAT	1	
	AN935B616	.WASHER, LOCK	1	
-12	235-3108	.BOLT	1	
	AN960B1416	.WASHER, FLAT	2	
	235-3103	.NUT	1	
	235-3104	.NUT	1	
-13	AN2551E30	.CABLE ASSY, POWER ELECTRICAL	2	
		(ATTACHING PARTS)		
-14	235-2094	.BOLT, TERMINAL	2	
-15	231-0208	.SCREW,CAP	2	
	AN960B816	.WASHER, FLAT	4	
	AN935B816	.WASHER, LOCK	6	
-16	231-0204	.NUT,JAM	2	
-17	231-0205	.NUT, FULL	2	
		---*---		

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-20-18	66C42140-26	.CABLE ASSY		1
	MS25036-133	..TERMINAL, LUG		1
	MS25036-134	..TERMINAL, LUG		1
		(ATTACHING PARTS)		
	AN960B616	.WASHER, FLAT		1
	AN935-B616	.WASHER, LOCK		1
	AN360-6	.NUT, SELF-LOCKING, HEXAGON		1
-19	66C42140-18	.CABLE ASSY		2
	MS25036-133	..TERMINAL, LUG		2
	MS25036-134	..TERMINAL, LUG		2
-20	66C42140-10	.CABLE ASSY		2
	MS25036-133	..TERMINAL, LUG		2
	MS25036-134	..TERMINAL, LUG		2
-21	66C42140-2	.CABLE ASSY		2
	MS25036-133	..TERMINAL, LUG		2
	MS25036-134	..TERMINAL, LUG		2
-22	68D41464	.HARNESS ASSY, SHUNT		2
	AN3101B28-9P	..CONNECTOR, RECEPTACLE, ELECTRICAL		1
	MS3057-	..ADAPTER, CABLE TO CONNECTOR		1
	MS25036-8	..TERMINAL, LUG		6
	C77	..TERMINAL, LUG (59730)		6
-23	235-2131	.BUS		1
-24	235-2132	.BUS		1
-25	235-2133	.BUS		1
		(ATTACHING PARTS)		
-26	235-2058	.BOLT		1
	AN960B816	.WASHER, FLAT		1
	AN935B816	.WASHER, LOCK		1
-27	231-0205	.NUT		1
		---*---		
-28	235-2078	.BUSHING		6
	AN935B616	.WASHER, LOCK		6
	AN340B616	.NUT, PLAIN, HEXAGON		6
-29	50K3-2	.SHUNT, 500 AMP (99246)		1
		(ATTACHING PARTS)		
-30	AN520-10R12	.SCREW, MACHINE		4
	AN960-10	.WASHER, FLAT		4
		---*---		
-31	235-2027	.BUS		1
-32	235-2026	.BUS		1
-33	66C42140-14	.CABLE ASSY		2
	MS25036-133	..TERMINAL, LUG		2
	MS25036-134	..TERMINAL, LUG		2

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	QTY PER ASSY	USABLE ON CODE
4-20-34	66C42140-32	.CABLE ASSY		2
	MS25036-133	..TERMINAL, LUG		2
	MS25036-134	..TERMINAL, LUG		2
-35	920-221	.SHUNT, AMMETER, 50 MV EXT (28569)		3
		(ATTACHING PARTS)		
-36	AN520-10R12	.SCREW, MACHINE		6
	AN960-10	.WASHER, FLAT		6

APPENDIX A

REFERENCES

TM 38-750

TM 55-1500-204-25/1

APPENDIX B

BASIC ISSUE ITEMS LIST

Not Applicable

APPENDIX C
MAINTENANCE ALLOCATION CHART

C-1. Purpose.

The purpose of the maintenance allocation chart is to provide all activities with maintenance functions to be performed at each level of maintenance.

C-2. Definitions.

C-3. Column 1, Group Number.

Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

C-4. Column 2, Functional Group.

Column 2 lists the noun names of components, assemblies, subassemblies, and modules on which maintenance is authorized.

C-5. Column 3, Maintenance Functions.

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.
b. Test. To verify serviceability and to detect electrical or mechanical failure by use of test equipment.
c. Service. To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. If it is desired
separately, they may be so listed.
d. Adjust. To rectify to the extent necessary to bring into proper operating range.
e. Align. To adjust specified variable elements of an item to bring to optimum performance.
f. Calibrate. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison 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 with the certified standard.
g. Install. To set up for use in an operational environment such as an emplacement, site, or vehicle.
h. Replace. To replace unserviceable items with serviceable assemblies, subassemblies, or parts.
i. Repair. To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.
j. Overhaul. To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards prepared and published for the specific item to be overhauled.
k. Rebuild. To restore an item to a standard as nearly as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.
I. Symbols. The symbol O, F, H, or D placed in the appropriate column indicates the level responsible for performing that particular maintenance function. The symbol "%%" which applies to organizational maintenance indicates the level responsible for performing that particular maintenance function may be performed provided it is specifically authorized by the direct support maintenance officer. Use of the symbol will apply only to replacement of major assemblies and time-consuming operations which are within the capabilities of organization, but over which control by the commodity commands is considered essential. In no case will the direct support maintenance officer require the accomplishment of a "o%%" maintenance function by an organization or unit, and in no case will a "%%" function authorize stockage of parts at organizational level.

C-6. Column 4, Tools and Equipment

This column will be used to specify, by code, those tools and test equipment required to perform the designated function.

C-7. Column 5, Remarks.

Self-explanatory.

C-8. General.

A maintenance function assigned to a maintenance level, which for any reason is beyond its capability, becomes the responsibility of the next higher maintenance level.

The authority to perform a maintenance function does not constitute authority to requisition or otherwise secure necessary repair parts specified in current supply directives.

C-9. Deviations.

Normally, there will be no deviations from the assigned maintenance level. In cases of operational necessity, a maintenance-function assigned to a maintenance level may, on a one-time basis and at the request of the lower maintenance level, be authorized to the lower maintenance level by the maintenance officer of the level to which the function is assigned.

The furnishing of special tools, equipment, and the like, required by the lower maintenance level to perform this function, will be the responsibility of the level to which the function is assigned.

C-10. Additional Information.

Changes in the maintenance allocation chart will be based on continuing evaluation and analysis by responsible technical personnel and on Maintenance Request Forms DA 2407 received from field activities.

All maintenance prescribed herein will be performed in accordance with applicable publications.

In any instance of conflict with current tool and equipment lists or current supply manuals, this maintenance allocation chart will be the final authority. Each such instance should be promptly reported by Maintenance Request Form DA 2407.

MAINTENANCE ALLOCATION CHART
FOR
MODEL C-26C GENERATOR SET
(AR 310-3)

(1) GROUP NO.	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
01	Dolly Assembly													
	Doors, Hinge Pins, Springs and Latch Assemblies	O							F	F				
	Battery Holder, Screen Assemblies and Manifold Assemblies	O							F					
	Engine Mounts, Brackets and Fenders	O							H	H				
02	Upper Structure Assembly													
	Cover Assemblies, Doors, Miscellaneous Hardware and Switches	O							F					
03	Power Distribution Compartment													
	Panel, Power Distribution	O								F	D			
	Miscellaneous Hardware	O							F					
	Power Cables	O								F				
	Shunt, Regulator Control	O							F					
	Shunt, Meter	O							F					
	Current Limiter, AC	O							F					
04	Upper Aft Hood Assembly													
	Door Assemblies, Latches, Hinge Pins, Miscellaneous Hardware	O							F					
	Muffler Assemblies and Muffler Screws	O							F	F				
		O							F					
05	Rear Wheel Assembly													
	Spring & Shackle Assembly	O								F				

MAINTENANCE ALLOCATION CHART
FOR
MODEL C-26C GENERATOR SET
(AR 310-3)

(1) GROUP NO.	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
05	Wheel	O							F					
	Bearings, Race, Seal and Studs	O		O	O				F					
	Tires and Tubes	O							F					
	Axle	O								F				
06	Front Wheel Drive Assembly	O		O					F	H				
	Tire and Tube	O		O					F	F				
	Drive Motor, DC	O							F		D			
	Shaft Assembly	O							F					
	Tow Bar													
	Fitting, Tow Bar End	O							O					
	Tube, Tow Bar	O								F				
	Eye, Tow Bar	O							O					
	Switch, Toggle	O							O					
	Differential Assembly	O							H	H				
	Gears and Pinions. Shafts, Bushings, Bearings, Axle and Coupling Drive Handle	H							H	H				
	Electrical Connectors, Cables, Harness Assemblies and Resistor Wires	O							F	F				
	Clamps, Bolts, Washers, Springs, Pins and Covers	O							O					
	Controller	F							F		D			
07	Fuel System													
	Tank Assembly	O						F		F				
	Straps	O							F					
	Cap Assembly	O							F					
	Sump, Filter, Gaskets and Associated Hardware	O		O					F					
	Fuel Lines	O								F				
	Gage Assembly	O							F					

MAINTENANCE ALLOCATION CHART
FOR
MODEL C-26C GENERATOR SET
(AR 310-3)

(1) GROUP NO.	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
07	Turnbuckles, Rod End Clevis, Pins	O							O					
08	Battery System													
	Battery	O	O	O					F					
	Covers, Tie Down Rods, Connector Plugs, Tube Assys, Hoses, Clamps	O							F					
	Rectifier	O	O						F					
09	Engine Assembly													
	Engine	O	F	O	F				H		D			
	Engine Mount Bolts, Bushings and Retainers	O							H	H				
	Fan Assembly	O							F		D			
	Engine Cowling Air Duct	O							F					
	Engine Oil Drain	O							F					
	Generators, D.C.	O							F		D			
	Alternator, A.C.	O							F		D			
	Valve, Fuel Cut-Off Solenoid	O							F					
	Spark Plugs	O			F				F					
	Terminal Connectors	F							F					
	Gaskets, Hoses, Ducts and Clamps	O							F					
	Relays	O							F					
	Governor. Engine	O			F				F					
	Arm Assembly	O							F					
	Rod Assembly	O							F					
	Magneto	O							F					
	Magneto Breaker Points	O			F				F					
	Starter	O							F	F				
	Solenoid	O							F					
	Brushes	O							F					
	Carburetor	O			F				F	F				
	Air Cleer	O		F					F					

MAINTENANCE ALLOCATION CHART
FOR
MODEL C-26C GENERATOR SET
(AR 310-3)

(1) GROUP NO.	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
09	Tach Generator	O							F					
	Controls, Engine	O							F					
10	Winterization Assembly													
	Hardware, Ducts, Grommets and Brackets	O							F	F				
	Valves, Solenoids	O							F					
11	Control Box Assembly													
	Door Assembly, Hinge Pins	O							O	F				
	Extrusions, Lights, Seals, Screws and Washers, Fasteners and Decals	O							F					
	Control Box Equipment													
	Ammeters	O							F					
	Voltmeters	O							F					
	Switches	O							F					
	Gages	O							F					

APPENDIX D
REPAIR PARTS AND SPECIAL TOOLS LIST
(Current as of 27 January 1971)

Section I. INTRODUCTION

D-1. Scope.
Although this manual is numbered -14, it includes depot maintenance items as well as the repair parts, special tools, test and support equipment and bulk material required for the performance of direct support and general support maintenance of the generator set, gasoline, engine driven, model C-26C.

D-2. General.
This repair parts and special tools list is divided into the following sections:

a. Repair Parts - Section II. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level in figure and item number sequence.

b. Special Tools, Test and Support Equipment - Section III. Not Applicable.

c. Federal Stock Number and Reference Number Index - Section IV. A list of Federal stock numbers in ascending numerical sequence, followed by a list of reference numbers appearing in all the listings, in ascending alpha-numerical sequence, cross-referenced to the illustration figure and item number.

D-3. Explanation of Columns.
The following provides an explanation of columns in the tabular list in section II.

a. Source, Maintenance and Recoverability Codes (SMR).

(1) Source code indicates the selection status and source for the listed item. Source codes are:

Code	Explanation
P	Repair parts, special tools and test equipment supplied from the GSA/DSA, or Army supply systems and authorized for use at indicated maintenance categories.
P2	Repair parts, special tools and test equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
P9	Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC Logistic System and which are not subject to the provisions of AR 380-41.
P10	Assigned to items which are NSA design controlled: special tools test, measuring and diagnostic equipment for COMSEC support, which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC Logistic System.
M	Repair parts, special tools and test equipment which are not procured or stocked, as such, in the supply system but are to be manufactured at indicated maintenance levels.
A	Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.
X	Parts and assemblies that are not procured or stocked because the failure rate is normally below that of the applicable end item of component. The failure of such part or assembly should result in retire-ment of the end item from the supply system.
X1	Repair parts which are not procured or stocked. The requirement for such item s will be filled by the next higher assembly or component.

Code	Explanation
X2	Repair parts, special tools, and test equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage. The item may be requisitioned with exception data, from the end item manager, for immediate use.
G at	Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies DSU and GSU level. These assemblies will not be stocked above the DS and GS level or returned to depot supply level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above, except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

Code	Explanation
F	Direct support maintenance.
H	General support maintenance.
D	Depot maintenance.

(3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are nonrecoverable. Recoverability codes are:

Code	Explanation
R	Applied to repair parts (assemblies and components), special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically reparable, it is normally disposed of at the GS level. When supply considerations dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-50. When so listed, they will be replaced by supply on an exchange basis.
S DSU	Repair parts, special tools, test equipment and assemblies which are economically reparable at and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T	Higher dollar value recoverable repair parts, special tools, and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.
U	Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value or reusable casings or castings.

b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes. Items source coded A, M, X1, or X2, are not assigned a Federal stock number.

c. Description. Indicates the Federal item name and any additional description of the item required. The description column contains the following subcolumns.

(1) *Reference number and manufacturer's code.* Indicates a part number or other reference number for the listed item, followed by the applicable five-digit Federal supply code for manufacturers, in parentheses.

(2) *Usable on code*. Not applicable.

d. Unit o/ Measure (U/M). A two-character alphabetical abbreviation indicating the amount or quantity of the item upon which the allowances are based (e.g., FT, EA, PR).

e. Quantity Incorporated in Unit. Indicates the quantity of the item used in the assembly. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated.

f. Thirty-day DS/GS Maintenance Allowances.

(1) The allowance column is divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in this column. Items authorized for use as required but not for initial stockage are identified with an asterisk (*) in the allowance column.

(2) The quantitative allowance for DS/GS level of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required' for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized allowance for 51-100 allowance column. Example: authorized allowance for 51-100 equipments is 40; for 150 equipments, multiply 40 by 1.50, or 60 parts required.

(4) The basis of issue for authorized special tools, test and support equipment is the number of end items of equipments supported.

g. One-year Allowance per 100 Equipments/Contingency Planning Purposes. Indicates opposite the first appearance of each item, the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

h. Depot Maintenance Allowance per 100 Equipments. Indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments, Subsequent appearances of the same item, in the major component breakdown, will reflect the letters "REF" in the allowance column. Items authorized for use, but not for initial stockage, are identified with an asterisk (*) in the allowance column, .

i. Illustration.

(1) Figure number. Indicates the figure number of the illustration in which the item is shown, Appearances of the letters "BULK" in this column indicate bulk material located in group 13 of section II.

(2) Item Number. Indicates the callout number used to reference the item in the illustration.

D-4. Federal Supply Codes for Manufacturers,

Code	Manufacturer
03479	Murphy Frank W FG Inc P O Box 45248 Tulsa OK 74145
14351	Continental Motors Corp 205 Market Ave. Muskegon MI 49443
14704	Crydom Controls Div. of International Rectifier 3115 West Warner Aver Santa Ana CA 92704
19315	Bendix Corp The Navigation and Control Div. Teterboro NJ 07608
21335	Fafnir Bearing Co. The Div. of Textron Inc 37 Booth St. New Britain CT 06050
21450	Ordinance Corps Engineering Standards Rock Island Arsenal Rock Island IL
24446	General Electric Co. 1 River Road Schenectady NY 12305
28569	Hickok Electrical Instrument Co. 10514 Dupont Ave. Cleveland OH 44108
30327	Imperial Division Imperial-Eastman Group I-T-E Imperial Corp 6300 West Howard St. Chicago IL 60648
31435	Learn Siegler Inc Power Equipment Div. P O Box 6719 Cleveland OH 44101
38443	McWilliams Forge Co. Inc Franklin Rd Rockaway NJ 07866

Code	Manufacturer
46522	Hupp Inc Cleveland Div. 1135 Ivanhoe Rd Cleveland OH 44110
52793	Saginaw Products Corp 68 Williamson St. Saginaw MI 48601
59443	Teleweld Inc Chicago IL
60038	Timken Roller Bearing Co. 1835 Dueber Ave. SW Canton OH 44706
61463	Uniroyal Inc 1230 Avenue of the Americas New York NY 10020
61864	United-Carr Inc Suite 4600 Prudential Center Boston MA 02199
66503	Woodward Governor Co. 5001 N Second St. Rockford IL 61101
70040	AC Spark Plug Div. of General Motors Corp 1300 N Dort HGWY Flint MI 48556
70898	Beech Aircraft Corp 9709 E Central Wichita KS 67201
71468	Itt Cannon Electric Inc 3208 Humbolt St. Los Angeles CA 90031
72962	Elastic Stop Nut Div. of American Esna Corp 2330 Vauxhall Road Union NJ 07083
73471	Continental Motors Corp Aircraft Engine Div. 205 Market St. Muskegon MI 49443
73680	Garlock Inc Palmyra NY 14522
74063	Hartman Electrical Mfg Co. P O Box 8 Mansfield OH
75165	Johns-Manville Sales Corp 22 E 40th St. New York NY 10016
75345	Kirkhill Rubber Co. 300 E Cypress St. Brea CA 92621
75377	Kurz and Root Co. 1000 N Meade St. Appleton WI 54911
76005	Lord Manufacturing Co. Div. of Lord Corporation 1635 West 12th St. Erie PA 16512
76301	McDonnell Douglas Corp McDonnell Aircraft Div. P O Box 516 Lambert St., Louis Municipal Airport St. Louis MO 63166
77138	Paul Henry Inc 11833 W Olympic Los Angeles CA 90064
77221	Phaostron Instrument and Electronic Co. 151 Pasadena Ave. South Pasadena CA 91030
78553	Tinnerman Products Inc 8700 Brookpark Rd Cleveland OH 44129
79960	Bendix Corp The Fuel Devices Div. 696 Hart Ave. Detroit MI 48214
80049	Department of the Air Force Washington, D C
80205	National Aerospace Standards Committee Aerospace Industries Association of America Inc 1725 DeSales NW Washington DC 20036
81352	Air Force-Navy Aeronautical Specifications Promulgated by Aeronautical Standards Group
81996	Army Aviation Systems Command St. Louis MO
82647	Texas Instruments Inc Control Products Div. 34 Forest St. Attleboro MA 02703
83014	Cartwheel Corp 9035 Venice Blvd. Los Angeles CA 90034
83298	Bendix Corp The Electric Power Div. W/S Route 35 Eatontown NJ 07724
88044	Aeronautical Standards Group Dept. of Navy and Air Force Silver Springs MD
90005	Bendix Corp The Filter Div. 434 W Twelve Mile Rd P O Box 135 Madison Heights MI 48071
90763	United-Carr Inc 4258 N Cicero Chicago IL 60640
95879	Alemite Instrument Div. of Stewart-Warner Corp 1826 Diversey Parkway Chicago IL 60614
96906	Military Standards Promulgated By Standardization Div. Directorate of Logistic Services DSA
98749	Sacramento Air Material Area McClellan Air Force Base Sacramento CA
99246	Ram Meter Inc 1100 Hilton Rd Ferndale MI 48220

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	6115-127-8544	C26C (80049)	GENERATOR SET, GASOLINE ENGINE DRIVEN-MODEL C-26C	EA							1-1	
			SECTION II									
			REPAIR PARTS									
			MAJOR COMPONENTS									
		235-0100 (70898)	.DOLLY ASSEMBLY SEE FIG.4-4 FOR BKDN		1						4--3	1
		235-0030-1 (70898)	.UPPER STRUCTURE ASSEMBLY SEE FIG.4-5 FOR BKDN		1						4--3	2
		235-0035-58 (70898)	.UPPER AFT HOOD ASSEMBLY SEE FIG.4-6 FOR BKDN		1						4--3	4
		235-1070 (70898)	.REAR WHEEL INSTALLATION SEE FIG.4-7 FOR BKDN		1						4--3	5
		235-1100-12 (70898)	..FRONT WHEEL DRIVE INSTALLATION SEE FIG.4-8 FOR BKDN		1						4--3	6
		64E24191 (80049)	.FUEL TANK ASSEMBLY SEE FIG.4-9 FOR BKDN		1						4--3	7
		235-1030 (70898)	.FUEL LINE INSTALLATION SEE FIG.4-10 FOR BKDN		1						4--3	8
		66J37253 (80049)	.BATTERY INSTALLATION SEE FIG.4-11 FOR BKDN		1						4--3	9
		235-1000 (70898)	.ENGINE INSTALLATION SEE FIG.4-12 FOR BKDN		1						4--3	10
		235-1080 (70898)	.WINTERIZATION INSTALLATION SEE FIG.4-15 FOR BKDN		1						4--3	11
		68J41505 (80049)	.CONTROL BOX ASSEMBLY SEE FIG.4-16 FOR BKDN		1						4--3	12
		69F38320 (80049)	.WIRING AND CABLE INSTALLATION, .CONTROL BOX SEE FIG.4-17 FOR BKDN		1						4--3	13
		68J41505 (80049)	.EQUIPMENT AND 400 CYCLE .INSTALLATION CONTROL BOX SEE FIG.4-18 FOR BKDN		1						4--3	13
		235-2213 (70898)	.ENGINE AND CHASSIS HARNESS .INSTALLATION SEE FIG.4-19 FOR BKDN		1						4--3	14
		235-3107 (70898)	.SPLIT BUS AND SHUNT INSTALLATION SEE FIG.4-20 FOR BKDN		1						4--3	15

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				GROUP 01 DOLLY ASSEMBLY									
		235-0100	(70898)	DOLLY ASSEMBLY		1						4-4	
		293-0100-622	(70898)	.DOOR ASSEMBLY, BATTERY-LH		1						4-4	1
		293-0100-623	(70898)	.DOOR ASSEMBLY, BATTERY-RH		1						4-4	2
P--F--	5340-598-8630	H5000CK181-125	(83014)	..CATCH, FLUSH	EA	4	*	*	*	*		4-4	4
X2-F--		235-0062	(70898)	.STAY, FOLDING, DOOR	EA	2						4-4	6
P--F--	5305-180-0010	AN525-10R8	(88044)	.SCREW, MACHINE	EA	4	*	*	*	*		4-4	7
P--F--	5310-877-5797	MS21044N3	(96906)	.NUT, SELF-LOCKING, HEXAGON	EA	4	*	*	*	*		4-4	7
P--F--	6115-303-3795	235-0085	(70898)	.SCREEN ASSEMBLY, BLOWER	EA	1	*	*	*	*		4-4	8
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW, MACHINE	EA	8	*	*	*	*		4-4	9
P--F--	6115-332-1753	jC3641-037-27	(78553)	.SPRING, DOOR	EA	2	*	*	*	*		4-4	10
		235-0029	(70898)	.DOOR ASSEMBLY, DOLLY-RH		1						4-4	11
P--F--	5340-598-8630	H5000CK181-125	(83014)	..CATCH, FLUSH	EA	2	*	*	*	*		4-4	13
P--F--	6115-659-2112	C3642S050-67	(78553)	..SPRING, DOOR LATCH	EA	2	*		*	*		4-4	14
P--F--	6115-332-1753	C3641-037-27	(78553)	SPRING, DOOR	EA	3	*	*	*	*		4-4	15
		235-0100-24	(70898)	.DOOR ASSEMBLY, DOLLY-LH		1						4-4	16
P--F--	5340-598-8630	H5000CK181-125	(83014)	..CATCH, FLUSH	EA	2	*	*	*	*		4-4	18
P—F--	6115-659-2112	C36428050-67	(78553)	..SPRING, DOOR LATCH	EA	3	*	*	*	*		4-4	19
P--F--	6115-213-9164	235-1078	(70898)	.MANIFOLD ASSEMBLY	EA	1	*	*	*	*		4-4	20
P--F--	5306-274-2119	AN3-5A	(88044)	.BOLT, MACHINE	EA	4	*	*	*	*		4-4	21
P--F-	5306-722-0393	AN3-4A	(88044)	.BOLT, MACHINE	EA	2	*	*	*	*		4-4	22
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER, FLAT	EA	6	*	*	*	*		4-4	22
P--F--	5310-045-3296	1MS35338-43	(96906)	.WASHER, LOCK	EA	6	*	*	*	*		4-4	22
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT, PLAIN, HEXAGON	EA	6	*	*	*	*		4-4	22
P--F--	5930-326-5024	1 235-2101	(70898)	.SWITCH ASSEMBLY, BLOWER	EA	1	*	*	*	*		4-4	
P--F--	5305-984-6193	MS35206-245	(96906)	..SCREW, MACHINE	EA	2	*	*	*	*		4-4	24
P--F--	5310-515-8058	AN960-8	(88044)	..WASHER, FLAT	EA	2	*	*	*	*		4-4	24
P--F--	5305-984-6222	MS35206-235	(96906)	..SCREW, MACHINE	EA	2	*	*	*	*		4-4	26
P--F--	5310-167-0816	AN960-6	(88044)	..WASHER, FLAT	EA	4	*	*	*	*		4-4	26
X2-H--		235-0106	(70898)	.MOUNT ASSEMBLY, ENGINE	EA	2						4-4	
P--H--	5340-200-4041	J5385-1	(76005)	..MOUNT, RESILIENT	EA	1	*	*	*	*		4-4	27
P--F--	5305-990-6444	MS35207-261	(96906)	.SCREW, MACHINE	EA	6	*	*	*	*		4-4	32
P--F--	5306-167-3713	AN6-53	(88044)	.BOLT, MACHINE	EA	4	*	*	*	*		4-4	37
P--F--	5310-167-0821	AN960-616	(88044)	.WASHER, FLAT	EA	4	*	*	*	*		4-4	38
P--F--	5310-582-6058	AN310-6	(88044)	.NUT, CASTELLATED, HEXAGON	EA	4	*	*	*	*		4-4	39
P--F--	5315-839-5820	NS24665-134	(96906)	.PIN, COTTER	EA	4	*	*	*	*		4-4	40
				GROUP 02 UPPER STRUCTURE ASSEMBLY									
		235-0030-1	(70898)	UPPER STRUCTURE ASSEMBLY		1						4-5	
		235-0031	(70898)	.BULKHEAD ASSEMBLY		1						4-5	
P--F--	5340-993-6244	EAB700D10	(81996)	..CLAMP, LOOP	EA	1	*	*	*		*	4-5	1

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P--F--	5310-167-0818	AN960-10	(88044)	..WASHER, FLAT	EA	1	*	*	*		*	4-5	1
		235-0030-177	(70898)	.COVER ASSEMBLY	EA	1						4-5	
P--F--	5325-599-8790	98292-1-130	(61864)	..STUD, TURNLOCK FASTENER	EA	4	*	*	*		*	4-5	8
P—F	5325-202-2691	98292-2-200	(61864)	..STUD, TURNLOCK FASTENER	EA	4	*	*	*		*	4-5	9
P--F--	5315-449-2945	99836	(61864)	..PIN, GROOVED, HEADLESS	EA	8	*	*	*		*	4-5	9
		235-0072	(70898)	.DOOR ASSEMBLY, GENERATOR		1						4-5	15
P--F--	5340-576-0714	H5000CK181-188	(83014)	..CATCH, FLUSH	EA	2	*	*	*		*	4-5	17
				GROUP 04									
				UPPER AFT HOOD ASSEMBLY									
		235-0035-58	(70898)	UPPER AFT HOOD ASSEMBLY		1						4-6	
P--F--	6115-303-3794	235-0069	(70898)	.LATCH ASSEMBLY	EA	2	*	*	*		*	4-6	1
P--F--	6115-332-1753	C3641-037-27	(78553)	.SPRING, DOOR	EA	3	*	*	*		*	4-6	3
		235-0035-52	(70898)	.DOOR ASSEMBLY, HOOD		1						4-6	4
P--F--	5340-598-8631	H5000CK181-250	(83014)	..CATCH, FLUSH	EA	1	*	*	*			4-6	6
		235-0035-58	(70898)	.DOOR ASSEMBLY, ACCESS		1						4-6	7
P--F--	5340-598-8630	H5000CK181-125	(83014)	..CATCH, FLUSH	EA	1	*	*	*		*	4-6	9
P--F--	6115-509-0792	293-0654	(70898)	.LATCH, HOOD, SAFETY	EA	1	*	*	*		*	4-6	10
				GROUP 05									
				REAR WHEEL INSTALLATION									
		235-1070	(70898)	REAR WHEEL INSTALLATION		1						4-7	
		231-0038	(70898)	.LEAF SPRING ASSEMBLY, REAR AXLE		2						4-7	
P--F--	5306-151-0153	AN8-33	(88044)	..BOLT, MACHINE	EA	1	*	*	*		*	4-7	5
P--F--	5306-151-0692	AN8-26	(88044)	..BOLT, MACHINE	EA	1	*	*	*		*	4-7	6
P--F--	5310-167-0823	AN960-816	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-7	7
P--F--	5310-167-0842	AN960-1216L	(88044)	..WASHER, FLAT	EA	4	*	*	*		*	4-7	8
X2-F--		235-1072	(70898)	..SHACKLE, SPRING	EA	2						4-7	9
X2-F--		105739X0500-0750-2125	(70898)	..BEARING, SLEEVE	EA	1						4-7	11
P--F--	5315-816-1794	MS24665-285	(96906)	..PIN, COTTER	EA	2	*	*	*		*	4-7	12
P--F--	5310-167-1289	MS35692-828	(96906)	..NUT, CASTELLATED, HEXAGON	EA	2	*	*	*		*	4-7	13
P--F--	5306-151-0153	AN8-33	(88044)	..BOLT, MACHINE	EA	1	*	*	*		*	4-7	14
P--F--	5310-167-023	AN960-816	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-7	15
X2-F--		105739X0500-0750-2125	(70898)	..BEARING, SLEEVE	EA	1						4-7	17
P--F--	5315-816-1794	MS24665-285	(96906)	..PIN, COTTER	EA	1	*	*	*		*	4-7	18
P--F--	5310-167-1289	MS35692-828	(96906)	..NUT, CASTELLATED, HEXAGON	EA	1	*	*	*		*	4-7	19
		9372	(52793)	.WHEEL AND HUB ASSEMBLY		2						4-7	
P--F--	5306-208-2523	5264-6A	(52793)	..BOLT, RIBBED, SHOULDER	EA	10	*	*	*		*	4-7	
P--F--	3110-455-9702	14276	(60038)	..CUP, TAPERED ROLLER BEARING	EA	2	*	*	*		*	4-7	25
P--F--	5310-596-2574	7805	(52793)	..NUT, CONE SEAT, HEXAGON	EA	10	*	*	*		*	4-7	28
P--F--	2530-696-3268	9372F	(52793)	..WHEEL, PNEUMATIC TIRE	EA	2	*	*	*		*	4-7	

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P--F--	2610-269-7354	NS35392-52	(96906)	.INNER TUBE, PNEUMATIC TIRE	EA	2	*	*	*		*	4-7	35
				GROUP 06 FRONT WHEEL DRIVE INSTALLATION									
		235-1100-12	(70898)	FRONT WHEEL DRIVE INSTALLATION		1						4-8	
X2-F--		63C40173	(98749)	.DRIVE ASSEMBLY, FRONT WHEEL	EA	1						4-8	
P--F--	6115-212-4345	231-0032	(70898)	..HANDLE, DRIVE COUPLING	EA	1	*	*	*			4-8	1
P--F--	5305-151-0597	AN520-416R10	(88044)	..SCREW, MACHINE	EA	4	*	*	*		*	4-8	3
P--F--	5310-582-5965	MS35338-44	(96906)	..WASHER, LOCK	EA	4	*	*	*		*	4-8	4
P--F--	2530-312-2666	235-1155	(70898)	..CAP, FRONT WHEEL-RH	EA	1	*	*	*		*	4-8	5
P--P-	5330-050-1211	AN62278	(88044)	..PACKING, PREFORMED	EA	1	*	*	*		*	4-8	6
P--F--	5330-359-1277	63X1204	(73680)	..SEAL, PLAIN ENCASED	EA	2	*	*	*		*	4-8	7
P--P--	5340-804-2779	1M16625-1300	(96906)	..RING, RETAINING	EA	6	*	*	*		*	4-8	8
X2-f--		9109KFS179	(21335)	..BEARING, BALL, ANNULAR	EA	5						4-8	9
P--F--	6115-032-4825	235-1152	(70898)	..AXLE, FRONT WHEEL-RH	EA	1	*	*	*		*	4-8	11
P--F--	6115-035-6251	231-0039	(70898)	..SHAFT ASSEMBLY, DRIVE COUPLING	EA	1	*	*	*			4-8	12
P--F--	6115-326-5324	231-0054	(70898)	..SPRING, DRIVE COUPLING	EA	1	*	*	*		*	4-8	13
P--P--	6115-293-5744	231-0303	(70898)	..BEARING, SLEEVE	EA	1	*	*	*		*	4-8	14
P--F--	6115-213-9159	231-0025	(70898)	..COUPLING, DRIVE DISCONNECT	EA	1	*	*	*		*	4-8	15
P--F--	5310-167-0835	AN960-416L	(88044)	..WASHER, FLAT	EA	*	*	*	*			4-8	16
P--F--	5310-582-5965	1M35338-44	(96906)	..WASHER, LOCK	EA	1	*	*	*		*	4-8	17
P--P--	5310-167-1344	AN315-4R	(88044)	..NUT, PLAIN, HEXAGON	EA	1	*	*	*		*	4-8	18
P--F--	5340-312-2662	231-0126	(70898)	..SPACER, RING	EA	1	*	*	*		*	4-8	19
X2-F--		235-1106-8	(70898)	..HOUSING ASSEMBLY, FRONT WHEEL DRIVE	EA	1						4-8	20
X2-F--		231-0013-1	(70898)	...BEARING, CAP, FRONT WHEEL DRIVE-LH	EA	1						4-8	21
X2-F--		231-0014-1	(70898)	...BEARING CAP, FRONT WHEEL DRIVE-RH	EA	1						4-8	22
P--F--	5306-781-5644	1M20074-05-14	(96906)	...BOLT, MACHINE	EA	6	*	*	*			4-8	23
P--F--	5310-167-0836	AN960-516L	(88044)	...WASHER, FLAT	EA	6	*	*	*			4-8	24
P--F--	6115-303-3817	235-1100-2	(70898)	..PINION AND GEAR ASSEMBLY	EA	1	*	*	*		*	4-8	
F--F--	2530-333-9094	235-2039	(70898)	..AXLE, FRONT WHEEL-LH	EA	1	*	*	*		*	4-8	23
P--F--	3040-181-2758	231-0065-2	(70898)	..GEARSHAFT, BEVEL...	EA	3	*	*	*		*	4-8	29
P--F--	5310-181-6150	231-0049	(70898)	..WASHER, FLAT	EA	3	*	*	*		*	4-8	30
P--F--	6115-346-3649	235-3134	(70898)	..GEAR, FRONT WHEEL DRIVE	EA	1	*	*	*		*	4-8	34
P--F--	2520-302-8163	235-1104	(70898)	..GEARSHAFT, SPUR	EA	1	*	*	*		*	4-8	35
P--F--	3110-155-8425	S5SQ5A7	(38443)	..BEARING, BALL, ANNULAR	EA	2	*	*	*		*	4-8	36
P--F--	5310-167-0820	AN960-516	(88044)	..WASHER, FLAT	EA	1	*	*	*		*	4-8	38
P--F--	5310-167-1286	AN310-5	(88044)	..NUT, CASTELLATED, HEXAGON	EA	1	*	*	*		*	4-8	39
P--F--	5315-839-2325	MS24665-132	(96906)	..PIN, COTTER	EA	1	*	*	*		*	4-8	40
P--F--	2530-312-2663	235-1107	(70898)	..CAP, FRONT WHEEL DRIVE	EA	1	*	*	*		*	4-8	42
P--F--	5310-141-1795	AN960-416	(88044)	..WASHER, FLAT	EA	4	*	*	*		*	4-8	44
P--F--	5310-582-5965	M835338-44	(96906)	..WASHER, LOCK	EA	4	*	*	*		*	4-8	45
P--F--	5310-167-1344	AN315-4R	(88044)	..NUT, PLAIN, HEXAGON	EA	4	*	*	*		*	4-8	46
X2-F--		62B40038	(98749)	..SPACER, CAP	EA	1						4-8	

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P--F--	5340-078-0564	62B40039-1	(98749)	..SPACER, RING	EA	1	*	*	*		*	4-8	49
P--F--	5310-075-5978	62B40039-3	(98749)	..WASHER, FLAT	EA	1	*	*	*		*	4-8	50
P--F--	5330-171-6732	63X115	(73680)	..SEAL, PLAIN ENCASED	EA	1	*	*	*		*	4-8	51
P--F--	5330-514-3289	MS35769-21	(96906)	..GASKET	EA	1	*	*	*		*	4-8	56
P--F--	6115-212-4341	231-0003	(70898)	..PLATE ASSEMBLY, PLANETARY	EA	1	*	*	*		*	4-8	59
P--F--	6115-532-4606	231-0008	(70898)	..BUSHING,	EA	1	*	*	*		*	4-8	59
P--P--	5306-151-1421	AN4-13A	(88044)	..BOLT , MACHINE	EA	6	*	*	*		*	4-8	60
P--F--	5310-141-1795	AN960-416	(88044)	..WASHER, FLAT	EA	6	*	*	*		*	4-8	61
P--F--	5310-167-0835	AN960-416L	(88044)	..WASHER, FLAT	EA	6	*	*	*		*	4-8	62
P--F--	5310-877-5796	MS21044N4	(96906)	..NUT, SELF-LOCKING, HEXAGON	EA	6	*	*	*		*	4-8	63
P--F--	2520-141-8173	235-1105	(70898)	..GEAR, HELICAL	EA	1	*	*	*		*	4-8	64
X2-F--		235-1109	(70898)	..PAN ASSEMBLY, FRONT WHEEL DRIVE	EA	1						4-8	65
P--F--	5310-550-1130	MS35333-40	(96906)	..WASHER, LOCK	EA	16	*	*	*		*	4-8	67
P--F--	6115-329-3936	235-3068	(70898)	..GASKET	EA	1	*	*	*			4-8	68
P--P--	4730-221-2138	MS20913-3S	(96906)	..PLUG, PIPE	EA	1	*	*	*		*	4-8	69
P--P--	4730-221-2137	M520913-2S	(96906)	..PLUG, PIPE	EA	1	*	*	*		*	4-8	70
X2-F--		231-0153	(70898)	..ADAPTER, FRONT BRAKE CATCH	EA	1						4-8	71
X2-F--		9110PP	(21335)	..BEARING, BALL, ANNULAR	EA	1						4-8	75
X2-F--		9111PP	(21335)	..BEARING, BALL , ANNULAR	EA	1						4-8	77
P--F--	6115-820-1494	231-0417	(70898)	..LEAD, ELECTRICAL	EA	1	*	*	*		*	4-8	87
P--P--	5940-114-1306	11525036-117	(96906)	...TERMINAL, LUG	EA	1	*	*	*		*	4-8	88
P--F--	5340-993-6245	EAB700D5	(81996)	..CLAMP, LOOP	EA	2	*	*	*		*	4-8	90
P--F--	5306-150-9875	AN3-26A	(88044)	..BOLT, MACHINE	EA	2	*	*	*		*	4-8	95
P--F--	5310-167-0818	AN960-10	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-8	96
P--F--	5310-045-3296	MS35338-43	(96906)	..WASHER, LOCK	EA	2	*	*	*		*	4-8	97
P--F--	5310-934-9751	MS35650-302	(96906)	..NUT, PLAIN, HEXAGON	EA	2	*	*	*		*	4-8	98
P--F--	6115-307-7369	235-0093-4	(70898)	..INSULATOR, FRONT WHEEL DRIVE	EA	1	*	*	*		*	4-8	99
P--F--	5306-151-0781	AN3-13A	(88044)	..BOLT, MACHINE	EA	2	*	*	*		*	4-8	100
P--F--	5310-167-0818	AN960-10	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-8	101
P--F--	5310-045-3296	MS35338-43	(96906)	..WASHER, LOCK	EA	2	*	*	*		*	4-8	102
P--F--	5310-934-9751	MS35650-302	(96906)	..NUT, PLAIN, HEXAGON	EA	2	*	*	*		*	4-8	103
P--F--	5905-321-4636	235-0092-2	(70898)	..RESISTOR, FIXED, WIRE WOUND	EA	1	*	*	*		*	4-8	104
P--F--	5905-098-9668	235-0092-4	(70898)	..RESISTOR, FIXED, WIRE WOUND	EA	1	*	*	*		*	4-8	105
P--F--	5306-151-1422	AN4-12A	(88044)	..BOLT, MACHINE	EA	3	*	*	*		*	4-8	106
P--F--	5310-141-1795	AN960-416	(88044)	..WASHER, FLAT	EA	12	*	*	*		*	4-8	107
P--F--	5310-582-5965	MS35338-44	(96906)	..WASHER, LOCK	EA	3	*	*	*		*	4-8	108
P--F--	5306-722-0393	AN3-4A	(88044)	..BOLT, MACHINE	EA	2	*	*	*		*	4-8	111
P--F--	5310-167-0818	AN96O-10	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-8	112
P--F--	5310-045-3296	MS35338-43	(96906)	..WASHER, LOCK	EA	2	*	*	*		*	4-8	113
P--F--	5310-934-9751	MS35650-302	(96906)	..NUT, PLAIN, HEXAGON	EA	2	*	*	*		*	4-8	114
P--F--	5930-398-1517	231-0242	(70898)	..SHAFT ASSEMBLY, LIMIT SWITCH	EA	3	*	*	*		*	4-8	115
P--F--	5315-291-2023	102809-187-308	(70898)	..PIN, STRAIGHT, HEADLESS	EA	1	*	*	*		*	4-8	117
P--F--	5930-835-0340	MS25026-1	(96906)	..SWITCH, SENSITIVE	EA	3	*	*	*		*	4-8	118
P--F--	5310-579-0079	MS35333-37	(96906)	..WASHER, LOCK	EA	2	*	*	*		*	4-8	122
P--F--	5310-167-0816	AN960-6	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-8	123
P--F--	5310-934-9747	MS35649-262	(96906)	..NUT, PLAIN, HEXAGON	EA	2	*	*	*		*	4-8	124
P--F--	5305-144-3757	AN515-10R8	(88044)	..SCREW, MACHINE	EA	4	*	*	*		*	4-8	126
P--F--	5310-167-0818	AN960-10	(88044)	..WASHER, FLAT	EA	4	*	*	*		*	4-8	126
P--F--	5310-576-5752	MS35333-39	(96906)	..WASHER, LOCK	EA	4	*	*	*		*	4-8	126
P--F--	5325-276-6100	MS35489-14	(96906)	..GROMMET, RUBBER	EA	2	*	*	*		*	4-8	127
P--F--	5310-167-0839	AN960-816L	(88044)	..WASHER, FLAT	EA	1	*	*	*		*	4-8	129

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5310-877-5795	MS21044N8	(96906)	..NUT, SELF-LOCKING, HEXAGON	EA	1	*	*	*		*	4-8	130
X2-F--		231-0058	(70898)	..EYE, LUNETTE, TOW BAR	EA	1						4-8	131
P--F--	5315-265-9899	AN386-2-18A	(88044)	..PIN, TAPERED, THREADED	EA	2	*	*	*		*	4-8	132
P--F--	5310-167-0685	AN975-3	(88044)	..WASHER, RECESSED	EA	2	*	*	*		*	4-8	133
P--F--	5310-807-1467	MS21042-3	(96906)	..NUT, EXTENDED WASHER, HEXAGON	EA	2	*	*	*		*	4-8	134
X2-F--		231-0154	(79898)	..CATCH ASSEMBLY	EA	1						4-8	135
P--F--	5306-156-2389	AN24-34A	(88044)	..BOLT, CLEVIS	EA	1	*	*	*		*	4-8	136
P--F--	5310-877-5796	MS21044N4	(96906)	..NUT, SELF-LOCKING, HEXAGON	EA	1	*	*	*		*	4-8	137
P--F--	5315-221-2738	AN386-2-19A	(88044)	..PIN, TAPERED, THREADED	EA	2	*	*	*		*	4-8	139
P--F--	5310-167-0685	AN975-3	(88044)	..WASHER, RECESSED	EA	2	*	*	*		*	4-8	140
P--F--	5310-807-1467	MS21042-3	(96906)	..NUT, EXTENDED WASHER, HEXAGON	EA	2	*	*	*		*	4-8	141
P--F--	4730-050-4208	MS15003-1	(96906)	..FITTING, LUBRICATION	EA	1	*	*	*		*	4-8	143
P--F--	5310-141-1795	AN960-416	(88044)	..WASHER, FLAT	EA	2	*	*	*		*	4-8	147
P--F--	5310-877-5796	MS21044N4	(96906)	..NUT, SELF-LOCKING, HEXAGON	EA	2	*	*	*		*	4-8	148
P--F--	6115-598-6560	235-1133	(70898)	..SPRING, HELICAL, EXTENSION	EA	2	*	*	*		*	4-8	149
P--F--	6115-113-4590	66C42130	(98749)	..WIRING HARNESS, BRANCHED	EA	1	*	*	*		*	4-8	150
P--F--	5930-501-1749	MS25089-3C	(96906)	..SWITCH, PUSH	EA	2	*	*	*		*	4-8	151
P--F--	5305-984-4988	MS35206-228	(96906)	..SCREW, MACHINE	EA	2	*	*	*		*	4-8	152
P--F--	5305-984-6193	MS35206-245	(96906)	..SCREW, MACHINE	EA	4	*	*	*		*	4-8	154
P--F--	5310-045-3299	MS35338-42	(96906)	..WASHER, LOCK	EA	4	*	*	*		*	4-8	155
P--F--	5340-993-6245	EAB700D5	(81996)	..CLAMP, LOOP	EA	2	*	*	*		*	4-8	156
P--F--	5305-984-6195	MS35206-247	(96906)	..SCREW, MACHINE	EA	1	*	*	*		*	4-8	157
P--F--	5310-596-7693	MS35335-31	(96906)	..WASHER, LOCK	EA	1	*	*	*		*	4-8	157
P--F--	5310-515-8058	AN960-8	(88044)	..WASHER, FLAT	EA	1	*	*	*		*	4-8	157
P--F--	5310-934-9757	MS35649-282	(96906)	..NUT, PLAIN, HEXAGON	EA	1	*	*	*		*	4-8	157
P--F--	5325-291-9366	MS35489-11	(96906)	..GROMMET, RUBBER	EA	1	*		*		*	4-8	159
X2-F--		G301370	(95879)	..BREATHER	EA	1						4-8	
		235-1100-10	(70898)	.TIRE AND RIM ASSEMBLY		2						4-8	
P--F--	2530-696-3268	9372F	(52793)	..WHEEL, PNEUMATIC TIRE	EA	2	*	*	*		*	4-8	160
P--F--	5306-208-2523	5264-6A	(52793)	..BOLT, RIBBED, SHOULDER	EA	10	*	*			*	4-8	161
P--F--	5310-596-2574	7805	(52793)	..NUT, CONE SEAT, HEXAGON	EA	10	*	*	*		*	4-8	162
P--F--	2610-269-7354	MS35392-52	(96906)	..INNER TUBE, PNEUMATIC TIRE	EA	2	*	*	*		*	4-8	
P--F--	6105-686-4563	231-0001-1	(70898)	.MOTOR, DIRECT CURRENT	EA	1	*	*	*		*	4-8	164
P--F--	5306-151-1418	AN4-16A	(88044)	.BOLT, MACHINE	EA	2	*	*	*		*	4-8	165
P--F--	5306-151-1417	AN4-17A	(88044)	.BOLT, MACHINE	EA	2	*	*	*		*	4-8	165
P--F--	5310-141-1795	AN960-416	(88044)	.WASHER, FLAT	EA	4	*	*	*		*	4-8	166
P--F--	5310-877-5796	MS21044N4	(96906)	.NUT, SELF-LOCKING, HEXAGON	EA	4	*	*	*		*	4-8	166
P--F--	5306-722-0393	AN3-4A	(88044)	.BOLT, MACHINE	EA	2	*	*	*		*	4-8	168
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER, FLAT	EA	2	*	*	*		*	4-8	169
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER, LOCK	EA	2	*	*	*		*	4-8	170
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT, PLAIN, HEXAGON	EA	2	*	*	*		*	4-8	171
P--F--	6110-538-8029	MC815	(74063)	.CONTROLLER	EA	1	*	*	*		*	4-8	172
P--F--	5306-150-9221	AN3-3A	(88044)	.BOLT, MACHINE	EA	6	*	*	*		*	4-8	173
P--F--	5310-167-0834	AN960-1OL	(88044)	.WASHER, FLAT	EA	6	*	*	*		*	4-8	174
P--F--	3120-807-9337	I NAS75-8-027	(80205)	.BUSHING, SLEEVE	EA	2	*	*	*		*	4-8	175
P--F--	3120-554-0576	NAS75-8-021	(80205)	.BUSHING, SLEEVE	EA	2	*	*	*		*	4-8	176

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP EQUIP	(8) DEPOT MAINT ALW PER 100	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
				GROUP 07 FUEL SYSTEM									
		64E24191	(80049)	FUEL TANK ASSEMBLY		1						4-9	
P--F--	6115-092-8100	231-0105	(70898)	.STRAP ASSEMBLY,TANK	EA	2	*	*	*		*	4-9	1
P--F--	5340-068-0528	MS21252-3LS	(96906)	.CLEVIS,ROD END	EA	4	*	*	*		*	4-9	2
P--F--	5340-067-9875	MS21251B3S	(96906)	.TURNBUCKLE	EA	4	*	*	*		*	4-9	3
P--F--	5340-068-0527	MS21252-3RS	(96906)	.CLEVIS,ROD END	EA	4	*	*	*		*	4-9	4
P--F--	5315-812-3759	MS20392-2-11	(96906)	.PIN,STRAIGHT,HEADED	EA	8	*	*	*		*	4-9	5
P--F--	5315-839-2325	MS24665-132	(96906)	.PIN,COTTER	EA	8	*	*	*		*	4-9	6
P--F--	6680-612-7867	235-0126	(70898)	.INDICATOR,LIQUID QUANTITY	EA	1	*	*	*		*	4-9	7
X2-F--		235-0135	(70898)	.CAP,FUEL TANK	EA	1						4-9	8
P--F--	5315-514-2660	MS29523-1	(96906)	..PIN,RETAINING	EA	1	*	*	*		*	4-9	9
P--F--	2910-996-2774	108059	(75345)	..GASKET	EA	1	*	*	*		*	4-9	11
P--F--	5310-877-5797	MS21044N3	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	5	*	*	*		*	4-9	14
P--F--	5330-231-3398	189631	(70898)	.GASKET	EA	1	*	*	*		*	4-9	15
P--F--	2910-580-7634	R32-96	(90005)	.FILTER ELEMENT,FLUID	EA	1	*	*	*		*	4-9	16
X2-F--		567824	(90005)	.END PLATE,FILTER	EA	1						4-9	17
P--F--	5310-877-5797	MS21044N3	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	1	*	*	*		*	4-9	19
		235-1030	(70898)	FUEL LINE INSTALLATION		1						4-10	
P--F--	5340-533-3516	EAB700-9	(81996)	.CLAMP,LOOP	EA	4	*	*	*		*	4-10	3
P--F--	5305-995-3442	MS35207-268	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-10	4
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-10	5
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-10	5
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT,PIAIN,HEXAGON	EA	4	*	*	*		*	4-10	5
P--F--	4730-277-6836	AN832-6D	(88044)	.NIPPLE,TUBE	EA	1	*	*	*		*	4-10	8
P--F--	5310-638-2605	MS2400D6	(96906)	.NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-10	9
P--F--	5340-533-3516	EAB700-9	(81996)	.CLAMP,LOOP	EA	3	*	*	*		*	4-10	11
P--F--	5305-989-7434	MS35207-263	(96906)	.SCREW,MACHINE	EA	3	*	*	*		*	4-10	12
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	3	*	*	*		*	4-10	12
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	3	*	*	*		*	4-10	12
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT,PLAIN,HEXAGON	EA	3	*	*	*		*	4-10	12
P--F--	4730-684-6916	MS24392D6	(96906)	.NIPPLE,TUBE	EA	1	*	*	*		*	4-10	14
P--F--	5340-533-3516	EAB700-9	(81996)	.CLAMP,LOOP	EA	2	*	*	*		*	4-10	16
P--F--	5305-989-7434	MS35207-263	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-10	17
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	2	*	*	*		*	4-10	17
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-10	17
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT,PLAIN,HEXAGON	EA	2	*	*	*		*	4-10	17
P--F--	4730-186-9968	MS20822-6D	(96906)	.ELBOW,PIPE TO TUBE	EA	1	*	*	*		*	4-10	18
P--F--	4820-356-4929	103HD1-4X1-4	(30327)	.VALVE,PLUG	EA	2	*	*	*		*	4-10	19
P--F--	5310-582-5965	MS35338-44	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-10	20
P--F--	5310-141-1795	AN960-416	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-10	20
P--F--	5310-176-8121	AN345C416	(88044)	.NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-10	20
P--F--	4730-186-7798	AN911-2	(88044)	.NIPPLE,PIPE	EA	2	*	*	*		*	4-10	22
P--F--	4730-196-9580	AN816-6D	(88044)	.ADAPTER,STRAIGHT,PIPE TO TUBE	EA	1	*	*	*		*	4-10	23

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5325-291-9366	MS35489-11	(96906)	.GRONMET,RUBBER	EA	1	*	*	*		*	4-10	24
P--F--	2910-310-6518	235-1025	(70898)	.TUBE ASSEMBLY,ENGINE FUEL	EA	1	*	*	*		*	4-10	26
P--F--	2910-310-6519	235-1027	(70898)	.TUBE ASSEMBLY,ENGINE FUEL	EA	1	*	*	*		*	4-10	27
P--F--	4730-186-9968	MS20822-6D	(96906)	.ELBOW,PIPE TO TUBE	EA	6	*	*	*		*	4-10	30
				GROUP 08									
				BATTERY INSTALIATION									
		66J37253	(80049)	BATTERY INSTALLATION		1						4-11	
P--F--	6140-248-6148	AN3150-2	(88044)	.BATTERY,STORAGE	EA	2	*	*			*	4-11	1
X2-F--		235-0156	(70898)	.ROD,BATTERY TIE-DOWN	EA	2						4-11	2
P--F--	5306-150-9102	AN5-7A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-11	4
P--F--	5310-063-6717	MS35426-15	(96906)	.NUT,PLAIN,WING	EA	4	*	*	*		*	4-11	5
P--F--	5310-088-0553	MS21044N5	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	2	*	*	*		*	4-11	6
P--F--	5310-167-0820	AN960-516	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-11	7
P--F--	5305-150-9210	AN502-10-12	(88044)	.SCREW,MACHINE	EA	2	*	*	*		*	4-11	10
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	2	*	*	*		*	4-11	11
P--F--	5935-257-8321	11751-1	(71468)	.CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-11	12
P--F--	6140-578-7444	20-87084-11	(76301)	.VENT TUBE,BATTERY	EA	2	*	*	*		*	4-11	13
P--F--	6140-308-1315	9555A	(77138)	.VENT TUBE,BATTERY	EA	2	*	*	*		*	4-11	14
P--F--	6115-308-2132	235-1099	(70898)	.TUBE ASSEMBLY,BATTERY COOLING	EA	1	*	*	*		*	4-11	16
P--F--	5305-989-7434	MS35207-263	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-11	17
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-11	18
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-11	19
P--F--	5310-877-5797	MS21044N3	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	4	*	*	*		*	4-11	20
P--F--	5340-533-3513	EAB700-6	(81996)	.CLAMP,SUPPORT	EA	1	*	*	*		*	4-11	
P--F-- 23	6115-213-8573	231-0391	(70898)	.VALVE ASSEMBLY,BATTERY COOLING		EA	1	*	*	*		*	4-11
P--F--	5305-889-3116	MS35206-213	(96906)	..SCREW,MACHINE	EA	2	*	*	*		*	4-11	25
P--F--	5310-193-7577	MS35333-36	(96906)	..WASHER,LOCK	EA	2	*	*	*		*	4-11	26
P--F--	5305-984-4977	MS35206-220	(96906)	..SCREW,MACHINE	EA	1	*	*	*		*	4-11	27
P--F--	5310-193-7577	MS535333-36	(96906)	..WASRER,LOCK	EA	1	*	*	*		*	4-11	27
P--F--	5310-934-9748	MS35649-244	(96906)	..NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-11	27
P--F--	5305-144-3950	AN507-632R6	(88044)	..SCREW,MACHINE	EA	1	*	*	*		*	4-11	30
P--F--	5310-579-0079	MS35333-37	(96906)	..WASHER,LOCK	EA	1	*	*	*		*	4-11	31
P--F--	5310-934-9747	MS35649-262	(96906)	..NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-11	32
P--F--	5305-889-3116	MS35206-213	(96906)	..SCREW,MACHINE	EA	1	*	*	*		*	4-11	33
P--F--	5310-193-7577	MS35333-36	(96906)	..WASHER,LOCK	EA	1	*	*	*		*	4-11	34
P--F--	5640-292-6439	1096	(75165)	.INSULATION TAPE,THERMAL	FT	V	*	*	*		*	4-11	36
P--F--	4730-278-9100	AN737RM56	(88044)	.CLAMP,HOSE	EA	1	*	*	*		*	4-11	
P--F--	5310-282-7835	MS24400D8	(96906)	.NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-11	39
P--F--	5325-276-6082	MS35489-43	(96906)	.GROMMET,RUBBER	EA	1	*	*	*		*	4-11	42
P--F--	5305-984-6196	MS35206-248	(96906)	.SCREW,MACHINE	EA	1	*	*	*		*	4-11	44
P--F--	5310-515-8058	AN960-8	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-11	44
P--F--	5310-811-3494	MS21044N08	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	1	*	*	*		*	4-11	44
P--F--	4730-278-3991	AN917-3	(88044)	.TEE,PIPE	EA	1	*	*	*		*	4-11	45
P--F--	4730-194-1095	AN840-8D	(88044)	.ADAPTER,STRAIGHT,PIPE TO TUBE	EA	1	*	*	*		*	4-11	46
P--F--	5305-984-6196	MS35206-248	(96906)	.SCREW,MACHINE	EA	3	*	*	*		*	4-11	47

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5310-515-8058	AN960-8	(88044)	.WASHER,FLAT	EA	6	*	*	*		*	4-11	47
P--F--	5310-811-3494	MS21044N08	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	1	*	*	*		*	4-11	47
				GROUP 09									
				ENGINE INSTALLATION									
		235-1000	(70898)	ENGINE INSTALLATION		1						4-12	
P--H-R	2805-528-6429	PE150-2SPEC11	(14351)	.ENGINE,GASOLINE	EA	1	*	*	*		*	4-12	1
P--H--	5340-819-7868	231-0366	(70898)	.MOUNT,ENGINE	EA	4	*	*	*		*	4-12	2
P--H--	6115-321-4639	235-1007	(70898)	.RETAINER,MOUNT,ENGINE	EA	2	*	*	*		*	4-12	3
P--H--	6115-204-0999	235-1008	(70898)	.RETAINER,MOUNT,ENGINE	EA	2	*	*	*		*	4-12	4
P--H--	5306-722-6127	AN7-44A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-12	5
P--H--	5306-208-3634	AN7-33A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-12	6
P--H--	5310-167-0769	MS63040-7	(96906)	.WASHER,FLAT	EA	2	*	*	*		*	4-12	7
P--H--	5310-167-0822	AN960-716	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-12	8
P--H--	5310-088-0552	MS21044N7	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	4	*	*	*		*	4-12	9
P--F--	1730-219-5721	235-3014	(70898)	.FITTING ASSEMBLY,HOIST	EA	1	*	*	*		*	4-12	10
P--F--	5310-088-0552	MS21044N7	(96906)	..NUT,SELF-LOCKING,HEXAGON	EA	4	*	*	*		*	4-12	11
P--F--	5310-167-0822	AN960-716	(88044)	..WASHER,FLAT	EA	4	*	*	*		*	4-12	11
P--F--	5306-579-4012	AN27-52	(81352)	..BOLT,CLEVIS	EA	1	*	*	*		*	4-12	14
P--F--	5310-176-8111	AN320-7	(88044)	..NUT,SLOTTED,HEXAGON	EA	1	*	*	*		*	4-12	14
P--F--	5315-842-3044	MS24665-283	(96906)	..PIN,COTTER	EA	1	*	*	*		*	4-12	14
P--F--	6115-589-2461	235-1047-38	(70898)	.DUCT ASSEMBLY,ENGINE COOLING	EA	1	*	*	*		*	4-12	16
P--F--	6115-085-2084	235-1012-14	(70898)	.FAN ASSEMBLY,GENERATOR COOLING	EA	1	*	*	*		*	4-12	19
P--F--	5306-151-0785	AN3-7A	(88044)	.BOLT,MACHINE	EA	6	*	*	*		*	4-12	20
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	6	*	*	*		*	4-12	20
P--F--	5310-576-5752	MS35333-39	(96906)	.WASHER,LOCK	EA	6	*	*	*		*	4-12	20
		AN6370-10-14	(88044)	.HOSE ASSEMBLY,RUBBER	EA	1						4-12	21
P--F--	4730-278-8226	MS24587-10	(96906)	..ADAPTER,STRAIGHT,TUBE TO HOSE	EA	2	*	*	*		*	4-12	21
P--F--	4730-196-9587	AN816-10-12D	(88044)	.ADAPTER,STRAIGHT,PIPE TO TUBE	EA	1	*	*	*		*	4-12	22
P--F--	5330-752-8605	MS35769-15	(96906)	.GASET	EA	1	*	*	*		*	4-12	24
P--F--	2805-394-3682	235-1013	(70898)	.DRAIN,ENGINE OIL	EA	1	*	*	*		*	4-12	25
P--F--	4730-196-9589	AN816-12D	(88044)	.ADAPTER,STRAIGHTE,PIPE TO TUBE	EA	1	*	*	*		*	4-12	
P--F--	4730-221-2128	AN929-12	(88044)	.CAP,TUBE	EA	1	*	*	*		*	4-12	
P--F--	4730-203-0064	AN909-16	(88044)	.PLUG,MACHINE THREAD	EA	1	*	*	*		*	4-12	26
P--F--	5330-883-8230	1MS35769-48	(96906)	.GASKET	EA	1	*	*	*		*	4-12	27
		G32-3F	(31435)	.GENERATOR,DIRECT CURRENT		2						4-12	30
P--F--	5310-167-0821	AN960-616	(88044)	.WASHER,FLAT	EA	24	*	*	*		*	4-12	31
P--F--	5310-637-9541	NE35338-46	(96906)	.WASHER,LOCK	EA	24	*	*	*		*	4-12	31
P--F--	5310-167-1346	AN315-6R	(88044)	.NUT,PLAIN,HEXAGON	EA	24	*	*	*		*	4-12	31
P--F--	6115-884-1485	28B94-5A	(83298)	.GENERATOR,ALTERNATOR	EA	1	*	*	*		*	4-12	32
P--F--	5310-167-1346	AN315-6R	(88044)	.NUT,PLAIN,HEXAGON	EA	12	*	*	*		*	4-12	33
P--F--	5310-637-9541	MS 35338-46	(96906)	.WASHER,LOCK	EA	12	*	*	*		*	4-12	34
P--F--	5310-167-0821	AN960-616	(88044)	.WASHER,FLAT	EA	12	*	*	*		*	4-12	35
P--F--	5310-167-1346	AN315-6R	(88044)	.NUT,PLAIN,HEXAGON	EA	12	*	*	*		*	4-12	37
P--F--	5310-637-9541	MS35338-46	(96906)	.WASHER,LOCK	EA	12	*	*	*		*	4-12	38
P--F--	5310-167-0821	AN960-616	(88044)	.WASHER,FIAT	EA	12	*	*	*		*	4-12	39

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	4730-071-7893	AN737TM74	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-12	41
P--F--	6115-289-4558	235-1057-18	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-12	42
P--F--	4730-278-9103	AN737RM58	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-12	43
P--F--	4720-289-4556	235-1057-22	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-12	44
P--F--	4730-278-9112	AN73JW107	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-12	45
P--F--	4720-289-4557	235-1057-16	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-12	46
P--F--	4730-278-9103	AN737RM58	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-12	47
P--F--	4720-289-4555	235-1057-20	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-12	48
P--F--	4730-278-9112	AN737TW107	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-12	49
P--F--	4720-200-0423	AN6270-4-14	(88044)	.HOSE ASSEMBLY,RUBBER	EA	1	*	*	*		*	4-12	50
P--F--	4730-497-4281	MS27404-4D	(96906)	..ADAPTER,STRAIGHT,TUBE TO HOSE	EA	2	*	*	*		*	4-12	50
P--F--	4730-684-6917	MS24398D6-4	(96906)	.ADAPTER,STRAIGHT,TUBE TO BOSS	EA	1	*	*	*		*	4-12	51
P--F--	4720-084-3632	AN6270-6-12	(88044)	.HOSE ASSEMBLY,RUBBER	EA	1	*	*	*		*	4-12	52
P--F--	4730-554-7831	MS28760-6	(96906)	..ADAPTER,STRAIGHT,TUBE TO HOSE	EA	2	*	*	*		*	4-12	52
P--F--	4730-186-9968	MS20822-6D	(96906)	.ELBOW,PIPE TO TUBE	EA	1	*	*	*		*	4-12	53
P--F--	4730-855-0673	MS20826-6D	(96906)	.TEE,PIPE TO TUBE	EA	1	*	*	*		*	4-12	54
P--F--	4730-223-7074	AN912-2D	(88044)	.BUSHING,PIPE	EA	1	*	*	*		*	4-12	55
P--F--	4810-678-8936	626224	(73471)	.VALVE,SOLENOID	EA	1	*	*	*		*	4-12	56
P--F--	5306-725-1908	AN3-30A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-12	57
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-12	58
P--F--	5310-807-1467	MS21042-3	(96906)	.NUT,EXTENDED WASHER,HEXAGON	EA	2	*	*	*		*	4-12	58
P--F--	5945-653-9437	B75-1	(79960)	.SOLENOID,ELECTRICAL	EA	2	*	*	*		*	4-12	59
P--F--	2990-867-6004	L100W	(03479)	.SWITCH,LOW OIL LEVEL	EA	1	*	*	*		*	4-12	60
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-12	61
P--F--	5310-038-1533	89897	(59443)	.NUT,PLAIN,HEXAGON	EA	2	*	*	*		*	4-12	61
P--F--	5310-188-0473	56-941-45	(75377)	.WASHER,LOCK	EA	2	*	*	*		*	4-12	61
P--F--	4730-221-2138	MS20913-3S	(96906)	.PLUG,PIPE	EA	2	*	*	*		*	4-12	65
P--F--	5330-196-6708	AN901-8C	(88044)	.GASKET	EA	1	*	*	*		*	4-12	66
P--F--	4730-277-9762	AN776-8	(88044)	.CONNECTOR,MULTIPLE,FLUID .PRESSURE LINE	EA	1	*	*	*		*	4-12	67
P--F--	4720-872-3300	MS27363H0200	(96906)	.HOSE ASSEMBLY,RUBBER	EA	1	*	*	*		*	4-12	68
P--F--	4730-196-9582	AN816-7D	(88044)	.ADAPTER,STRAIGHT,PIPE TO TUBE	EA	1	*	*	*		*	4-12	
P--F--	4730-231-3904	AN915-2	(88044)	.ELBOW,PIPE	EA	1	*	*	*		*	4-12	
P--F--	2990-293-4898	A370397	(66503)	.GOVERNOR,GASOLINE,ENGINE	EA	1	*	*	*		*	4-12	70
P--F--	2990-525-6953	293-0621-8	(70898)	.ARM ASSEMBLY,GOVERNOR	EA	1	*	*	*		*	4-12	71
P--F--	5306-151-0782	AN3-12A	(88044)	.BOLT,MACHINE	EA	1	*	*	*		*	4-12	72
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-12	72
P--F--	5310-877-5797	MS21044N3	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	1	*	*	*		*	4-12	72
P--F--	5340-257-3765	MS27975-2	(96906)	.CLEVIS,ROD END	EA	1	*	*	*		*	4-12	73
P--F--	2990-722-3105	539755	(14351)	.BUSHING,SLEEVE	EA	1	*	*	*		*	4-12	74
P--F--	5305-984-6195	MS535206-247	(96906)	.SCREW,MACHINE	EA	1	*	*	*		*	4-12	75
P--F--	5310-515-8058	AN960-8	(88044)	.WASHER,FLAT	EA	1	*	*	*		*	4-12	75
P--F--	5310-811-3494	MS21044N08	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	1	*	*	*		*	4-12	75
P--F--	5310-527-4688	25164	(14351)	.WASHER,SPECIAL	EA	1	*	*	*		*	4-12	76
P--F--	5310-167-1344	AN315-4R	(88044)	.NUT,PLAIN,HEXAGON	EA	2	*	*	*		*	4-12	77
P--F--	5310-582-5965	MS35338-44	(96906)	.WASHER,LOCK	EA	2	*	*	*		*	4-12	77
P--F--	5310-141-1795	AN960-416	(88044)	.WASHER,FLAT	EA	1	*	*	*		*	4-12	80
P--F--	5310-582-5965	MS35338-44	(96906)	.WASHER,LOCK	EA	1	*	*	*		*	4-12	80
P--F--	2990-885-5081	293-0682	(70898)	.SPRING ASSEMBLY,GOVERNOR CONTROL	EA	1	*	*	*		*	4-12	82
P--F--	4730-196-9580	AN816-6D	(88044)	.ADAPTER,STRAIGHT,PIPE TO TUBE	EA	1	*	*	*		*	4-12	83
P--F--	4720-084-3632	AN6270-6-12	(88044)	.HOSE ASSEMBLY,RUBBER	EA	1	*	*	*		*	4-12	84

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO
P--F--	4730-554-7831	MS28760-6	(96906)	..ADAPTER,STRAIGHT,TUBE TO HOSE	EA	2	*	*	*		*	4-12	84
P--F--	4730-186-9968	MS20822-6D	(96906)	.ELBOW,PIPE TO TUBE	EA	1	*	*	*		*	4-12	85
				GROUP 10									
				WINTERIZATION INSTALLATION									
		235-1080	(70898)	WINTERIZATION INSTALLATION		1						4-15	
P--F--	4730-071-7893	AN737TM74	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-15	2
P--F--	6115-321-4637	235-0098	(70898)	.DUCT ASSEMBLY,HOT AIR	EA	1	*	*	*		*	4-15	3
P--F--	5305-989-7434	MS35207-263	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-15	4
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	2	*	*	*		*	4-15	5
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-15	6
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT,PLAIN,HEXAGON	EA	2	*	*	*		*	4-15	7
P--F--	4720-289-4546	235-1057-8	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-15	
P--F--	4730-278-9103	AN737RM58	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-15	
P--F--	5305-989-7434	I MS35207-263	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-15	9
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-15	10
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-15	11
P--F--	5310-934-9751	MS35050-302	(96906)	.NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-15	12
P--F--	6620-355-1605	D1339G1	(46522)	.THERMOSTAT	EA	1	*	*	*		*	4-15	13
P--F--	5305-990-6444	MS35207-261	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-15	14
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-15	15
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-15	16
P--F--	4720-289-4552	235-1057-52	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-15	17
P--F--	4730-278-9103	AN737RM58	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-15	18
P--F--	6115-303-3815	235-1084	(70898)	.SPOUT ASSEMBLY	EA	1	*	*	*		*	4-15	19
P--F--	4720-202-7664	235-1057-60	(70898)	.HOSE,AIR DUCT	EA	1	*	*	*		*	4-15	20
P--F--	4730-071-7893	AN737TM74	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-15	
P--F--	5640-292-6439	1096	(75165)	.INSULATION TAPE,THERMAL	FT	V	*	*	*		*	4-15	22
P--F--	6115-156-3958	63F40357	(98749)	.MANIFOLD ASSEMBLY	EA	1	*	*	*		*	4-15	23
P--F--	5305-964-2845	MS24694S51	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-15	23
P--F--	4730-071-7893	AN737TM74	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-15	
P--F--	4730-278-9140	AN737RM91	(88044)	.CLAMP,HOSE	EA	1	*	*	*		*	4-15	
P--F--	5320-117-6951	MS20426AD4-6	(96906)	.RIVET,SOLID	EA	2	*	*	*		*	4-15	
P--F--	6115-509-0795	293-0671	(70898)	.ADAPTER,AIR DUCT	EA	1	*	*	*		*	4-15	27
P--F--	4730-278-9100	AN737RM56	(88044)	.CLAMP,HOSE	EA	2	*	*	*		*	4-15	30
				GROUP 11									
				CONTROL BOX ASSEMBLY									
		6841505	(80049)	CONTROL BOX ASSEMBLY		1						4-16	
P--F--	5340-200-8670	AN742-11	(88044)	.CLAMP,LOOP	EA	2	*	*	*		*	4-16	7
P--F--	5305-958-6373	MS24693S51	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-16	8

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5310-811-3494	MS21044N08	(96906)	.NUT,SELF-LOCKING.HEXAGON	EA	2	*	*	*		*	4-16	8
X2-F--		231-0395	(70898)	.HANDLE ASSEMBLY,PANEL	EA	2						4-16	13
P--F--	5315-449-2945	99836	(61864)	.PIN,GROOVED,HEADLESS	EA	4	*	*	*		*	4-16	20
X2-F--		235-0048	(70898)	.SPRING,PANEL LATCH	EA	2						4-16	22
P--F--	5310-208-2352	22A5-02	(72962)	.NUT,SELF-LOCKING,PLATE	EA	1	*	*	*		*	4-16	24
P--F--	5340-200-4114	A321	(61463)	.MOUNT,RESILIENT	EA	4	*	*	*		*	4-16	27
P--F--	5310-045-3299	MS35338-42	(96906)	.WASHER,LOCK	EA	8	*	*	*		*	4-16	28
P--F--	5310-934-9757	MS35649-282	(96906)	.NUT,PLAIN,HEXAGON	EA	8	*	*	*		*	4-16	29
		69F38320	(80049)	.WIRING AND CABLE INSTALLATION,... CONTROL BOX		1						4-17	
		68D4146	(80049)	.HARNESS ASSEMBLY-ENGINE CONTROL		1						4-17	1
P--F--	5935-259-0048	MS3106R20-15S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	1
		68E41468	(80049)	.HARNESS ASSEMBLY-AC GENERATOR		1						4-17	2
P--F--	5935-879-1147	MS3106R20-16P	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	2
P--F--	5935-806-4181	MS3106R24-7S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	2
P--F--	5935-721-1081	MS3106R14S6P	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	2
P--F--	5935-721-0488	MS3106R14S6S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*			*	4-17	2
P--F--	5930-501-1749	MS25089-3C	(96906)	..SWITCH,PUSH	EA	1	*	*	*		*	4-17	2
P--F--	5975-553-6995	MS25171-1S	(96906)	..CABLE NIPPLE,ELECTRICAL	EA	3	*	*	*		*	4-17	2
P--F--	5975-553-7151	MS25171-2S	(96906)	..CABLE NIPPLE,EIECTRICAL	EA	1	*	*	*		*	4-17	2
		68E41465	(80049)	.HARNESS ASSEMBLY-GENERATOR		1						4-17	3
P--F--	5935-725-4591	MS3106R18-9P	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	3
P--F--	5935-806-4181	MS3106R24-7S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	3
		68F41463	(80049)	.HARNESS ASSEMBLY-GENERATOR		1						4-17	4
P--F--	5935-727-7559	MS3106R18-9S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	4
P--F--	5935-806-4181	MS3106R24-7S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	1	*	*	*		*	4-17	4
P--F--	6115-329-3925	66C41264	(98749)	.WIRING HARNESS,BRANCHED THERMOCOUPLE	EA	1	*	*	*		*	4-17	5
X1----		MS3106R18-15P	(96906)	..CONNECTOR,PLUG,ELECTRICAL		1						4-17	5
P--F--	5940-502-7570	AN5538-1	(88044)	..TERMINAL,LUG	EA	6	*	*	*		*	4-17	5
P--F--	5310-268-6041	AN360-6	(88044)	.NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-17	8
P--F--	5310-187-2413	AN961-616	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-17	8
P--F--	5310-184-8971	MS35338-103	(96906)	.WASHER,LOCK	EA	1	*	*	*		*	4-17	8
P--F--	5325-276-6091	MS35489-19	(96906)	.GRONMET,RUBBER	EA	2	*	*	*		*	4-17	21
P--F--	5340-634-6856	49138	(90763)	.CLIP,RETAINING	EA	3	*	*	*		*	4-17	
		68J41505	(80049)	EQUIPMENT AND 400 CYCLE INSTALLATION,CONTROL BOX		1						4-18	
P--F--	6620-966-5837	1507843	(70040)	.GAGE,OIL PRESSURE	EA	1	*	*	*		*	4-18	1
P--F--	5305-637-1125	MS35214-29	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	2
P--F--	6680-526-6708	1548091	(70040)	.TACHOMETER,MECHANICAL	EA	1	*	*	*		*	4-18	3
P--F--	5305-637-1125	MS35214-29	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	4
P--F--	6685-557-3105	MS90410-2	(96906)	.INDICATOR,TEMPERATURE	EA	1	*	*	*		*	4-18	5
P--F--	5307-637-1125	MS35214-29	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	6
P--F--	6625-539-8621	8AW43AAA213	(24416)	.AMMETER-AC	EA	1	*	*	*		*	4-18	11
P--F--	5305-637-1125	MS35214-29	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	12

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	6625-028-3542	560-234	(28569)	.ANMETER-AC	EA	2	*	*	*		*	4-18	15
P--F--	5305-637-1125	MS25214-29	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	16
P--F--	5930-687-1097	MS25102-22	(96906)	.SWITCH,TOGGLE	EA	1	*	*	*		*	4-18	17
P--F--	5305-206-1288	MS35214-27	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	18
P--F--	5930-755-2003	MS25104-31	(96906)	.SWITCH,TOGGLE	EA	2	*	*	*		*	4-18	19
P--F--	5305-206-1288	MS35214-27	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	20
P--F--	6240-155-8714	MS25231-313	(96906)	.LAMP,INCANDESCENT	EA	2	*	*	*		*	4-18	21
P--F--	6210-807-3162	MS25331-7	(96906)	.LIGHT,INDICATOR-GREEN	EA	2	*	*	*		*	4-18	22
P--F--	6240-155-8714	MS25231-313	(96906)	.LAMP,INCANDESCENT	EA	2	*	*	*		*	4-18	23
P--F--	6210-722-6455	MS25331-8	(96906)	.LIGHT,INDICATOR-AMBER	EA	2	*	*	*		*	4-18	24
P--F--	5355-538-7331	MS25166-1	(96906)	.KNOB,POINTER	EA	1	*	*	*		*	4-18	25
P--F--	5930-538-5508	MS25002-1	(96906)	.SWITCH,ROTARY	EA	1	*	*	*		*	4-18	26
P--F--	5930-543-8394	MS25103-23	(96906)	.SWITCH,TOGGLE	EA	1	*	*	*		*	4-18	27
P--F--	5305-206-1288	MS35214-27	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	28
P--F--	6240-155-8714	MS25231-313	(96906)	.LAMP,INCANDESCENT	EA	1	*	*	*		*	4-18	29
P--F--	6210-803-9882	MS25331-9	(96906)	.LIGHT,INDICATOR-RED	EA	1	*	*	*		*	4-18	30
P--F--	5925-913-2094	MS24506-15	(96906)	.CIRCUIT BREAKER	EA	1	*	*	*		*	4-18	31
P--F--	5305-206-1288	MS35214-27	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	32
P--F--	5930-543-8394	MS25103-23	(96906)	.SWITCH,TOGGLE	EA	1	*	*	*		*	4-18	33
P--F--	5305-206-1288	MS35214-27	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	34
P--F--	6110-877-2470	40E17-1B	(19315)	.REGULATOR,VOLTAGE	EA	2	*	*	*		*	4-18	35
P--F--	5310-934-9757	MS35649-282	(96906)	.NUT,PLAIN,HEXAGON	EA	24	*	*	*		*	4-18	37
P--F--	5310-045-3299	MS35338-42	(96906)	.WASHER,LOCK	EA	24	*	*	*		*	4-18	37
P--F--	5340-514-2640	50679	(61463)	.MOUNT,RESILIENT	EA	12	*	*	*		*	4-18	37
M--F--		MS27212-1-8	(96906)	.TERMINAL BOARD		2						4-18	39
P--F--	5305-889-2997	MS35206-215	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	40
P--F--	5310-088-0551	MS21044N04	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	2	*	*	*		*	4-18	40
P--F--	5310-194-0634	AN961-6	(88044)	.WASHER,FLAT	EA	32	*	*	*		*	4-18	41
P--F--	5310-184-8977	MS35338-98	(96906)	.WASHER,LOCK	EA	32	*	*	*		*	4-18	41
P--F--	5940-806-4302	MS25226-2-7	(96906)	.LINK,TERMINAL CONNECTING	EA	2	*	*	*		*	4-18	41
P--F--	5945-762-0488	RYU1A	(74063)	.RELAY,ARMATURE	EA	1	*	*	*		*	4-18	42
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHINE	EA	3	*	*	*		*	4-18	43
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	3	*	*	*		*	4-18	43
P--F--	5945-323-2165	PR9502AC	(77221)	.RELAY,ARMATURE	EA	3	*	*	*		*	4-18	44
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHI	EA	4	*	*	*		*	4-18	45
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-18	45
P--F--	5905-059-9451	AN5534-2	(88044)	.RESISTOR,THERMAL	EA	2	*	*	*		*	4-18	46
P--F--	5305-984-6195	MS35206-247	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	47
P--F--	5310-515-8058	AN960-8	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-18	47
P--F--	5935-549-4690	AN2552-3A	(88044)	.CONNECTOR,RECEPTACLE,ELECTRICAL	EA	1	*	*	*		*	4-18	51
P--F--	5305-984-7343	MS35191-276	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	52
M--F--		MS27212-1-8	(96906)	.TERMINAL BOARD		1						4-18	53
P--F--	5305-889-2997	MS35206-215	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-18	54
P--F--	5310-088-0551	MS21044N04	(96906)	.NUT,SELF-LOCKING,HEXAGON	EA	2	*	*	*		*	4-18	54
P--F--	5940-557-8906	MS25226-2-6	(96906)	.LINK,TERMINAL CONNECTING	EA	1	*	*	*		*	4-18	56
P--F--	15940-204-7477	235-2095	(70898)	.TERMINAL,STUD	EA	3	*	*	*		*	4-18	61
P---F--	6115-097-4081	235-2119	(70898)	.BUSHING,BRASS,BUS BAR	EA	3	*	*	*		*	4-18	62
X2-F--		235-2136	(70898)	.BUS BAR	EA	1						4-18	67
X2-F--		235-2012	(70898)	.TERMINAL BOARD	EA	1						4-18	69
P--F--	5305-993-1848	MS35307-265	(96906)	.SCREW,MACHINE	EA	8	*	*	*		*	4-18	70
P-F	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	8	8	8	8		8	4-18	70

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P--F--	6110-852-0682	20882-3A	(83298)	.REGULATOR,VOLTAGE	EA	1	*	*	*		*	4-18	71
P--F--	5305-989-7435	MS35207-264	(96906)	.SCR,MACHINE	EA	8	*	*	*		*	4-18	72
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER.FLAT	EA	8	*	*	*		*	4-18	72
P--F--	2925-555-5349	MS27433-300	(96906)	.CUTOUT RELAY,ENGINE GENERATOR	EA	1	*	*	*		*	4-18	73
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	74
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-18	74
P--F--	2925-673-4564	MS27433-600	(96906)	.CUTOUT RELAY,ENGINE GENERATOR	EA	2	*	*	*		*	4-18	75
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHINE	EA	8	*	*	*		*	4-18	76
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	8	*	*	*		*	4-18	76
P--F--	6240-155-7848	MS15570-303	(96906)	.LAMP,INCANDESCENT	EA	2	*	*	*		*	4-18	77
P--F--	5325-185-0017	MS35489-33	(96906)	.GROMMET,RUBBER	EA	3	*	*	*		*	4-18	78
P--F--	5306-695-4714	235-2094	(70898)	.BOLT,MACHINE	EA	6	*	*	*		*	4-18	80
P--F--	5310-167-0706	AN960B816	(88044)	.WASHER,FLAT	EA	6	*	*	*		*	4-18	80
X2-F--		235-2058	(70898)	.BOLT,MACHINE	EA	6						4-18	82
P--F--	6115-994-8237	CL276	(14704)	.CONTROL AND INDICATOR	EA	1	*	*	*		*	4-18	87
P--F--	5340-702-0604	51142	(61864)	.BUTTON,PLUG	EA	1	*	*	*		*	4-18	88
X2-F--		51118	(61864)	.BUTTON,PLUG	EA	4						4-18	89
P--F--	5305-989-7434	MS35207-263	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	90
P--F--	5310-809-4058	MS27183-10	(96906)	.WASHER,FLAT	EA	4	*	*	*		*	4-18	90
P--F--	5945-346-3642	A846-1	(74063)	.RELAY,ARMATURE	EA	1	*	*	*		*	4-18	91
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-18	91
P--F--	5310-809-4058	MS27183-10	(96906)	.WASHER,FLAT	EA	4	*	*	*		*	4-18	91
				GROUP 13									
				ENGINE AND CHASSIS HARNESS INSTALLATION									
		235-2213	(70898)	ENGINE AND CHASSIS HARNESS INSTALLATION		1						4-19	
		66C42140-54	(80049)	.CABLE ASSEMBLY,BATTERY-RH		1						4-19	1
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	1
		66C42140-50	(80049)	.CABLE ASSEMBLY,BATTERY-LH		1						4-19	2
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	2
		66C42140-58	(80049)	.CABLE ASSEMBLY,BATTERY		1						4-19	3
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-19	3
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-19	3
		66C42140-62	(80049)	.CABLE ASSEMBLY,BATTERY		1						4-19	4
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	4
P--F--	6115-329-3903	231-0416	(70898)	.LEAD,ELECTRICAL-FRONT DRIVE SYSTEM	EA	1	*	*	*		*	4-19	8
P--F--	5940-114-1306	MS25036-117	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-19	8
P--F--	5305-889-2997	MS35206-215	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-19	9
P--F--	5310-950-1310	MS27183-4	(96906)	.WASHER,FLAT	EA	4	*	*	*		*	4-19	9
P--F--	5310-543-2410	MS35338-40	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-19	9
P--F--	5310-934-9739	MS35649-242	(96906)	.NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-19	9
X2-F--		D6364-2-120	(82647)	.CIRCUIT BREAKER	EA	1						4-19	10
P--F--	5305-984-6191	MS35206-243	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-19	11

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5325-834-1789	MS35489-118	(96906)	.GROMMET,RUBBER	EA	1	*	*	*		*	4-19	12
P--F--	5325-263-6632	MS35489-6	(96906)	.GROMMET, RUBBER	EA	1	*	*	*		*	4-19	14
P--F--	5325-991-0442	112436-6	(70898)	.RETAINER,GROMMET,FIREPROOF	EA	2	*	*	*		*	4-19	16
P--F--	5325-433-0161	49338	(61864)	.FASTENER,SPRING TENSION,TRIM	EA	4	*	*	*		*	4-19	17
		66C42140-78	(80049)	.CABLE ASSEMBLY,BATTERY		1						4-19	18
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-19	18
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-19	18
		66C42140-74	(80049)	.CABLE ASSEMBLY,BATTERY		1						4-19	19
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMNAL,LUG	EA	2	*	*	*		*	4-19	19
		66C42140-70	(80049)	.CABLE ASSEMBLY,BATTERY-RH		1						4-19	20
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	20
		66C42140-66	(80049)	.CABLE ASSEMBLY,BATTERY-LH		1						4-19	21
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	21
P--F--	5340-598-8243	NAS437-3B	(80205)	.CLAMP,LOOP	EA	10	*	*	*		*	4-19	23
		69D37706	(80049)	.HARNESS ASSEMBLY,CHASSIS		1						4-19	24
P--F--	5940-143-4780	MS25036-108	(96906)	..TERMINAL,LUG	EA	5	*	*	*		*	4-19	24
P--F--	5940-236-7176	MS20659-11	(96906)	..TERMINAL,LUG	EA	3	*	*	*		*	4-19	24
P--F--	5940-557-4338	MS25036-125	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	24
P--F--	5940-050-6209	506209	(21450)	..TERMINAL,LUG	EA	1	*	*	*		*	4-19	24
X2-F--		MS20659-145	(96906)	..TERMINAL,LUG	EA	1						4-19	24
P--F--	6115-553-7587	MS25486-21	(96906)	.CABLE ASSEMBLY,SPECIAL	EA	1	*	*	*		*	4-19	25
P--F--	5945-773-3392	BA104H	(74063)	.RELAY,SOLENOID	EA	1	*	*	*		*	4-19	27
M--F--		MS-27212-3-2	(96906)	.TERMINAL BOARD		1						4-19	28
P--F--	5340-598-8243	NAS437-3B	(80205)	.CLAMP,LOOP	EA	2	*	*	*		*	4-19	30
P--F--	5305-989-7435	MS35207-264	(96906)	.SCREW,MACHINE	EA	2	*	*	*		*	4-19	31
P--F--	5340-598-8243	NAS437-3B	(80205)	.CLAMP,LOOP	EA	4	*	*	*		*	4-19	32
P--F--	5307-206-9765	235-2017	(70898)	.STUD,CONTINUOUS THREAD	EA	1	*	*	*		*	4-19	33
P--F--	5310-167-0821	AN960-616	(88044)	.WASHIER,FLAT	EA	4	*	*	*		*	4-19	33
P--F--	5310-637-9541	MS35338-46	(96906)	.WASHER,LOCK	EA	4	*	*	*		*	4-19	33
P--F--	5310-268-6041	AN360-6	(88044)	.NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-19	33
		68D41469	(80049)	.HARNESS ASSEMBLY,ENGINE		1						4-19	34
P--F--	5935-686-9542	MS3100R20-15P	(96906)	..CONNECTOR,RECEPTACLE,ELECTRICAL'	EA	1	*	*	*		*	4-19	34
P--F--	5305-889-2997	MS35206-215	(96906)	..SCREW,MACHINE	EA	4	*	*	*		*	4-19	34
P--F--	5310-950-1310	MS27183-4	(96906)	..WASHER,FLAT	EA	4	*	*	*		*	4-19	34
P--F--	5310-543-2410	MS35338-40	(96906)	..WASHER,LOCK	EA	4	*	*	*		*	4-19	34
P--F--	5310-934-9739	MS35649-242	(96906)	..NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-19	34
P--F--	5940-577-3711	MS25036-103	(96906)	..TERMINAL,LUG	EA	3	*	*	*		*	4-19	34
P--F--	5940-143-4794	MS25036-112	(96906)	..TERMINAL,LUG	EA	7	*	*	*		*	4-19	34
P--F--	5940-143-4775	MS25036-156	(96A06)	..TERMINAL,LUG	EA	5	*	*	*		*	4-19	34
		68D41662	(80049)	.HARNESS ASSEMBLY,GENERATOR		1						4-19	36
		68D41461	(80049)	.HARNESS ASSEMBLY,GENERATOR		1						4-19	36
P--F--	5935-726-0707	MS3100R18-9S	(96906)	..CONNECTOR,RECEPTACLE,ELECTRICAL	EA	2	*	*	*		*	4-19	36
P--F--	5935-849-7170	MS3100R20-16S	(96906)	..CONNECTOR,RECEPTACLE,ELECTRICAL	EA	2	*	*	*		*	4-19	36
P--F--	5305-889-2997	MS35206-215	(96906)	..SCREW,MACHINE	EA	24	*	*	*		*	4-19	37
P--F--	5310-950-1310	MS27183-4	(96906)	..WASHER,FLAT	EA	24	*	*	*		*	4-19	37
P--F--	5310-543-2410	MS35338-40	(96906)	..WASHER,LOCK	EA	24	*	*	*		*	4 19	37
P--F--	5310-934-9739	MS35649-242	(96906)	..NUT,PLAIN,HEXAGON	EA	24	*	*	*		*	4-19	37
P--F--	5935-879-0236	MS3106R28-9S	(96906)	..CONNECTOR,PLUG,ELECTRICAL	EA	2	*	*	*		*	4-19	37
P--F--	5940-143-4780	MS25036-108	(96906)	..TERMINAL,LUG	EA	12	*	*	*		*	4-19	37
P--F--	6115-099-4036	66C41197	(98749)	.WIRING HARNESS-THERMCOUPLE	EA	1	*	*	*		*	4-19	38
P--F--	5935-988-3353	MS3100R18-15S	(96906)	..CONNECTOR,RECEPTACLE,ELECTRICAL	EA	1	*	*	*		*	4-19	38

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5305-889-2997	MS35206-215	(96906)	..SCREW,MACHINE	EA	4	*	*	*		*	4-19	38
P--F--	5310-950-1310	MS27183-4	(96906)	..WASHER,FLAT	EA	4	*	*	*		*	4-19	38
P--F--	5310-543-2410	MS35338-40	(96906)	..WASHER,LOCK	EA	4	*	*	*		*	4-19	38
P--F--	5310-934-9739	MS35649-242	(96906)	..NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-19	38
P--F--	5940-197-9756	AN5539-1	(88044)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	38
P--F--	5940-229-7565	AN5539-2	(88044)	..TERMINAL,LUG	EA	2	*	*	*		*	4-19	38
P--F--	5925-913-2094	MS24506-15	(96906)	.CIRCUIT BREAKER	EA	1	*	*	*		*	4-19	40
P--F--	5306-225-9089	MS90726-34	(96906)	.BOLT,MACHINE	EA	6	*	*	*		*	4-19	53
P--F--	5310-167-1345	AN315-5R	(88044)	.NUT,PLAIN,HEXAGON	EA	12	*	*	*		*	4-19	54
P--F--	5306-722-8759	AN5-14A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-19	56
P--F--	5340-580-3638	NAS43HT5-12	(80205)	.SPACER,SLEEVE	EA	2	*	*	*		*	4-19	57
P--F--	5310-063-6717	MS35426-15	(96906)	.NUT,PLAIN,WING	EA	4	*	*	*		*	4-19	58
P--F--	5340-813-8485	NAS43HT5-24	(80205)	.SPACER,SLEEVE	EA	4	*	*	*		*	4-19	59
P--F--	5310-063-6716	MS35426-14	(96906)	.NUT,PLAIN,WING	EA	4	*	*	*		*	4-19	61
P--F--	5305-267-8984	MS90726-17	(96906)	.SCREW,CAP,HEXAGON HEAD	EA	4	*	*	*		*	4-19	62
P--F--	5310-167-1345	AN315-SR	(88044)	.NUT,PLAIN,HEXAGON	EA	4	*	*	*		*	4-19	63
P--F--	5340-837-4982	NAS43HT4-96	(80205)	.SPACER,SLEEVE	EA	4	*	*	*		*	4-19	64
			.	GROUP 14 CABLE COMPARTMENT									
		235-3107	(70898)	SPLIT BUS AND SHUNT INSTALLATION		1						4-20	
P--F--	6150-284-1187	235-3110	(70898)	.BUS BAR	EA	1	*	*	*		*	4-20	2
P--F--	5306-693-8108	231-0208	(70898)	.BOLT,MACHINE	EA	2	*	*	*		*	4-20	3
P--F--	5310-167-0706	AN960B816	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-20	3
P--F--	5340-292-0251	235-2137	(70898)	.STRAP,RETAINING	EA	2	*	*	*		*	4-20	5
P--F--	5306-151-0781	AN3-13A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-20	6
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-20	6
P--F--	5310-045-3296	MS35338-43	(96906)	.WASHER,LOCK	EA	2	*	*	*		*	4-20	6
P--F--	5310-934-9751	MS35650-302	(96906)	.NUT,PLAIN,HEXAGON	EA	2	*	*	*		*	4-20	6
P--F--	5975-312-8609	235-2138	(70898)	.CLAMP,OUTPPUT CABLE	EA	1	*	*	*		*	4-20	7
P--F--	5306-274-2119	AN3-5A	(88044)	.BOLT,NACHINE	EA	2	*	*	*		*	4-20	8
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	2	*	*	*		*	4-20	8
P--F--	5340-214-1630	235-2139	(70898)	.STRAP,RETAININC	EA	1	*	*	*		*	4-20	9
P--F--	5306-616-1224	AN6-6A	(88044)	.BOLT,MACHINE	EA	2	*	*	*		*	4-20	10
P--F--	5310-167-0821	AN960-616	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-20	10
P--F--	5310-637-9541	MS35338-46	(96906)	.WASHER,LOCK	EA	2	*	*	*		*	4-20	10
P--F--	5310-268-6041	AN360-6	(88044)	.NUT,PLAIN,HEXAGON	EA	2	*	*	*		*	4-20	10
P--F--	5305-208-8612	235-3124	(70898)	.SCREW,CAP,HEXAGON HEAD	EA	I	*	*	*		*	4-20	11
P--F--	5310-187-2413	AN961-616	(88044)	.WASHER,FLAT	EA	1	*	*	*		*	4-20	11
P--F--	5310-184-8971	MS35338-103	(96906)	.WASHER,LOCK	EA	1	*	*	*		*	4-20	11
P--F--	5306-298-4225	235-3108	(70898)	.BOLT,MACHINE	EA	1	*	*	*		*	4-20	12
P--F--	5310-316-8826	AN960B1416	(88044)	.WASHIER,FLAT	EA	2	*	*	*		*	4-20	12
P--F--	5310-208-8697	235-3103	(70898)	.NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-20	12
P--F--	5310-208-9595	235-3104	(70898)	.NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-20	12
P--F--	4940-894-0099	AN2551E30	(88044)	.CABLE ASSEMBLY,ELECTRICAL	EA	2	*	*	*		*	4-20	13
P--F--	5306-695-4714	235-2094	(70898)	.BOLT,MACHINE	EA	2	*	*	*		*	4-20	14

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE	(b) ITEM NO
P--F--	5306-693-8108	231-0208	(70898)	.BOLT,MALCHINE	EA	2	*	*	*		*	4-20	15
P--F--	5310-167-0706	AN960B816	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-20	15
		66C42140-26	(70898)	.CABLE ASSEMBLY		1						4-20	18
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-20	18
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	1	*	*	*		*	4-20	18
P--F--	5310-187-2413	AN961-616	(88044)	.WASHER,FLAT	EA	1	*	*	*		*	4-20	18
P--F--	5310-268-6041	AN360-6	(88044)	.NUT,PLAIN,HEXAGON	EA	1	*	*	*		*	4-20	18
		66C42140-18	(80049)	.CABLE ASSEMBLY		2						4-20	19
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	19
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	19
		66C42140-10	(80049)	.CABLE ASSEMBLY		2						4-20	20
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	20
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	20
		66C42140-2	(80049)	.CABLE ASSEMBLY		2						4-20	21
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	21
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	21
		66D41464	(80049)	.HARNESS ASSEMBLY,SHUNT		2						4-20	22
P--F--	5935-853-3320	MS3100R28-9P	(96906)	..CONNECTOR,RECEPTACLE,ELECTRICAL	EA	1	*	*	*		*	4-20	22
P--F--	5935-280-2353	MS3057-16A	(96906)	..ADAPTER,CABLE TO CONNECTOR	EA	1	*	*	*		*	4-20	22
P--F--	5940-143-4780	MS25036-108	(96906)	..TERMINAL,LUG	EA	6	*	*	*		*	4-20	22
P--F--	5940-143-4775	MS25036-156	(96906)	..TERMINAL,LUG	EA	6	*	*	*		*	4-20	22
P--F--	6150-284-0511	235-2131	(70898)	.BUS BAR	EA	1	*	*	*		*	4-20	23
P--F--	6150-284-0507	235-2132	(70898)	.BUS BAR	EA	1	*	*	*		*	4-20	24
P--F--	6150-284-0510	235-2133	(70898)	.BUS BAR		1	*	*	*		*	4-20	25
P--F--	5306-336-3249	235-2058	(70898)	.BOLT,MACHINE	EA	1	*	*	*		*	4-20	26
P--F--	5310-167-0706	AN960B816	(88044)	.WASHER,FLAT	EA	1	*	*	*		*	4-20	26
P--F--	5310-184-8971	MS35338-103	(96906)	.WASHER,LOCK	EA	6	*	*	*		*	4-20	28
P--F--	5310-187-2413	AN961-616	(88044)	.WASHER,FLAT	EA	6	*	*	*		*	4-20	28
P--F--	6115-536-1703	50K3-2	(99246)	.SHUNT,REGULATOR	EA	1	*	*	*		*	4-20	29
P--F--	5305-993-1848	MS35207-265	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-20	30
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-20	30
		66C42140-14	(80049)	.CABLE ASSEMBLY		2						4-20	33
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	33
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMIAL,LUG	EA	2	*	*	*		*	4-20	33
		66C42140-32	(80049)	.CABLE ASSEMBLY		2						4-20	34
P--F--	5940-115-5006	MS25036-133	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	34
P--F--	5940-804-0520	MS25036-134	(96906)	..TERMINAL,LUG	EA	2	*	*	*		*	4-20	34
P--F--	6625-557-0913	920-221	(28569)	.SHUNT,INSTRUMENT	EA	2	*	*	*		*	4-20	35
P--F--	5305-993-1848	MS35207-565	(96906)	.SCREW,MACHINE	EA	4	*	*	*		*	4-20	36
P--F--	5310-167-0818	AN960-10	(88044)	.WASHER,FLAT	EA	4	*	*	*		*	4-20	36

(1) SMR CODE	(2) FEDERAL STOCK CODE	(3) DESCRIPTION Reference Number & Mfr. Code		Usable On Code	(4) UNIT OF MEAS UNIT	(5) QTY INC IN	(6) 30 DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 1-YR ALW PER 100 EQUIP	(8) DEPOT MAINT ALW PER 100 EQUIP	(9) ILLUSTRATION (a) FIGURE NO	(b) ITEM NO
				GROUP 13 BULK MATERIAL									
P--F--	5940-950-1610	MS27212-1-20	(96906)	TERMINAL BOARD-PLASTIC ..... 20 TERXINALS,12 IN.LG, 21 MTG HOLES,MIL-P-19833,USED TO MAKE ITEM 33 & 50,FIG.12	EA	V	*	*	*		*	BULK	
P--F--	5940-950-7782	MS27212-3-8	(96906)	TERMINAL BOARD-PLASTIC ..... 8 TERMINALS,12 IN.LC,9 TG HOLIES, MIL-P-19833,USED TO MAKE ITEM 40,FIG.13	EA	V	*	*	*		*	BULK	

SECTION IV. FEDERAL STOCK NUMBER AND REFERENCE NUMBER

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
1730-219-5721	4-12	10	4730-278-9112	4-12	45
2520-141-8173	4-8	64	4730-278-9112	4-12	49
2520-302-8163	4-8	35	4730-278-9140	4-15	
2530-312-2663	4-8	42	4730-497-4281	4-12	50
2530-312-2666	4-8	5	4730-554-7831	4-12	52
2530-333-9094	4-8	28	4730-554-7831	4-12	84
2530-696-3268	4-7		4730-684-6916	4-10	14
2530-696-3268	4-8	160	4730-684-6917	4-12	51
2610-269-7354	4-7	35	4730-855-0673	4-12	54
2610-269-7354	4-8		4810-678-8936	4-12	56
2805-394-3682	4-12	25	4820-356-4929	4-10	19
2805-528-6429	4-12	1	4940-894-0099	4-20	13
2910-310-6518	4-10	26	5305-144-3757	4-8	126
2910-310-6519	4-10	27	5305-144-3950	4-11	30
2910-580-7634	4-9	16	5305-150-9210	4-11	10
2910-996-2774	4-9	11	5305-151-0597	4-8	3
2925-555-5349	4-18	73	5305-180-0010	4-4	7
2925-673-4564	4-18	75	5305-206-1288	4-18	18
2990-293-4898	4-12	70	5305-206-1288	4-18	20
2990-525-6953	4-12	71	5305-206-1288	4-18	28
2990-722-3105	4-12	74	5305-206-1288	4-18	32
2990-867-6004	4-12	60	5305-206-1288	4-18	34
2990-885-5081	4-12	82	5305-208-8612	4-20	11
3040-181-2758	4-8	29	5305-267-8984	4-19	62
3110-155-8425	4-8	36	5305-637-1125	4-18	2
3110-455-9702	4-7	25	5305-637-1125	4-18	4
3120-554-0576	4-8	176	5305-637-1125	4-18	6
3120-807-9337	4-8	175	5305-637-1125	4-18	12
4720-084-3632	4-12	52	5305-637-1125	4-18	16
4720-084-3632	4-12	84	5305-889-2997	4-18	40
4720-200-0423	4-12	50	5305-889-2997	4-18	54
4720-202-7664	4-15	20	5305-889-2997	4-19	9
4720-289-4546	4-15		5305-889-2997	4-19	34
4720-289-4552	4-15	17	5305-889-2997	4-19	37
4720-289-4555	4-12	48	5305-889-2997	4-19	38
4720-289-4556	4-12	44	5305-889-3116	4-11	25
4720-289-4557	4-12	46	5305-889-3116	4-11	33
4720-872-3300	4-12	68	5305-958-6373	4-16	8
4730-050-4208	4-8	143	5305-964-2845	4-15	23
4730-071-7893	4-12	41	5305-984-4977	4-11	27
4730-071-7893	4-15		5305-984-4988	4-8	152
4730-071-7893	4-15		5305-984-6191	4-19	11
4730-071-7893	4-15	2	5305-984-6193	4-4	24
4730-186-7798	4-10	22	5305-984-6193	4-8	154
4730-186-9968	4-10	18	5305-984-6195	4-8	157
4730-186-9968	4-10	30	5305-984-6195	4-12	75
4730-186-9968	4-12	53	5305-984-6195	4-18	47
4730-186-9968	4-12	85	5305-984-6196	4-11	44
4730-194-1095	4-11	46	5305-984-6196	4-11	47
4730-196-9580	4-10	23	5305-984-6222	4-4	126
4730-196-9580	4-12	83	5305-984-7343	4-18	52
4730-196-9582	4-12		5305-989-7434	4-10	12
4730-196-9587	4-12	22	5305-989-7434	4-10	17
4730-196-9589	4-12		5305-989-7434	4-11	17
4730-203-0064	4-12	26	5305-989-7434	4-15	4
4730-221-2128	4-12		5305-989-7434	4-15	19
4730-221-2137	4-8	70	5305-989-7434	4-18	90
4730-221-2138	4-8	69	5305-989-7435	4-4	9
4730-221-2138	4-12	65	5305-989-7435	4-12	61
4730-223-7074	4-12	55	5305-989-7435	4-18	143
4730-231-3904	4-12		5305-989-7435	4-18	45
4730-277-6836	4-10	8	5305-989-7435	4-18	72
4730-277-9762	4-12	67	5305-989-7435	4-18	74
4730-278-3991	4-11	45	5305-989-7435	4-18	76
4730-278-8226	4-12	21	5305-989-7435	4-18	191
4730-278-9100	4-11		5305-989-7435	4-19	131
4730-278-9100	4-15	30	5305-990-6444	4-4	32
4730-278-9103	4-12	43	5305-990-6444	4-15	14
4730-278-9103	4-12	47	5305-993-1848	4-18	70
4730-278-9103	4-15		5305-993-1848	4-20	30
4730-278-9103	4-15	18	5305-993-1848	4-20	36

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-995-3442	4-10	4	5310-141-1795	4-10	20
5306-150-9102	4-11	4	5310-141-1795	4-12	80
5306-150-9221	4-8	173	5310-167-0685	4-8	133
5306-150-9875	4-8	95	5310-167-0685	4-8	140
5306-151-0153	4-7	5	5310-167-0706	4-18	80
5306-151-0153	4-7	10	5310-167-0706	4-20	3
5306-151-0692	4.-7	6	5310-167-0706	4-20	15
5306-151-0781	4-8	100	5310-167-0706	4-20	26
5306-151-0781	4-20	6	5310-167-0769	4-12	7
5306-151-0782	4-12	72	5310-167-0816	4-4	26
5306-151-0785	4-12	20	5310-167-0816	4-8	123
5306-151-1417	4-8	165	5310-167-0818	4-4	22
5306-151-1418	4-8	165	5310-167-0818	4-5	1
5306-151-1421	4-8	60	5310-167-0818	4-8	96
5306-151-1422	4-8	106	5310-167-0818	4-8	101
5306-156-2389	4-8	136	5310-167-0818	4-8	112
5306-167-3713	4-4	37	5310-167-0818	4-8	126
5306-208-2523	4-7		5310-167-0818	4-8	169
5306-208-2523	4-8	161	5310-167-0818	4-10	5
5306-208-3634	4-12	6	5310-167-0818	4-10	12
5306-225-9089	4-19	53	5310-167-0818	4-10	17
5306-274-2119	4-4	21	5310-167-0818	4-11	18
5306-274-2119	4-20	8	5310-167-0818	4-12	20
5306-298-4225	4-20	12	5310-167-0818	4-12	58
5306-336-3249	4-20	26	5310-167-0818	4-12	72
5306-579-4012	4-12	14	5310-167-0818	4-15	6
5306-616-1224	4-20	10	5310-167-0818	4-15	10
5306-693-8108	4-20	3	5310-167-0818	4-15	16
5306-693-8108	4-20	15	5310-167-0818	4-18	43
5306-695-4714	4-18	80	5310-167-0818	4-18	45
5306-695-4714	4-20	14	5310-167-0818	4-18	70
5306-722-0393	4-4	22	5310-167-0818	4-18	72
5306-722-0393	4-8	111	5310-167-0818	4-18	74
5306-722-0393	4-8	168	5310-167-0818	4-18	76
5306-722-6127	4-12	5	5310-167-0818	4-20	6
5306-722-8759	4-19	56	5310-167-0818	4-20	8
5306-725-1908	4-12	57	5310-167-0818	4-20	30
5306-781-5644	4-8	23	5310-167-0818	4-20	36
5307-206-9765	4-19	33	5310-167-0820	4-8	38
5310-038-1533	4-12	61	5310-167-0820	4-11	7
5310-045-3296	4-4	22	5310-167-0821	4-4	38
5310-045-3296	4-8	97	5310-167-0821	4-12	31
5310-045-3296	4-8	102	5310-167-0821	4-12	35
5310-045-3296	4-8	113	5310-167-0821	4-12	39
5310-045-3296	4-8	170	5310-167-0821	4-19	33
5310-045-3296	4-10	5	5310-167-0821	4-20	10
5310-045-3296	4-10	12	5310-167-0822	4-12	8
5310-045-3296	4-10	17	5310-167-0822	4-12	11
5310-045-3296	4-11	11	5310-167-0823	4-7	7
5310-045-3296	4-11	19	5310-167-0823	4-7	15
5310-045-3296	4-15	5	5310-167-0834	4-8	174
5310-045-3296	4-15	11	5310-167-0835	4-8	16
5310-045-3296	4-15	15	5310-167-0835	4-8	62
5310-045-3296	4-20	6	5310-167-0836	4-8	24
5310-045-3299	4-8	155	5310-167-0839	4-8	129
5310-045-3299	4-16	28	5310-167-0842	4-7	8
5310-045-3299	4-18	37	5310-167-1286	4-8	39
5310-063-6716	4-19	61	5310-167-1289	4-7	13
5310-063-6717	4-11	5	5310-167-1289	4-7	19
5310-063-6717	4-19	58	5310-167-1344	4-8	18
5310-075-5978	4-8	50	5310-167-1344	4-8	46
5310-088-0551	4-18	40	5310-167-1344	4-12	77
5310-088-0551	4-18	54	5310-167-1345	4-19	54
5310-088-0552	4-12	9	5310-167-1345	4-19	63
5310-088-0552	4-12	11	5310-167-1346	4-12	31
5310-088-0553	4-11	6	5310-167-1346	4-12	33
5310-141-1795	4-8	44	5310-167-1346	4-12	37
5310-141-1795	4-8	61	5310-176-8111	4-12	14
5310-141-1795	4-8	107	5310-176-8121	4-10	20
5310-141-1795	4-8	147	5310-181-6150	4-8	30
5310-141-1795	4-8	166	5310-184-8971	4-17	8

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-184-8971	4-20	11	5310-637-9541	4-12	34
5310-184-8971	4-20	18	5310-637-9541	4-12	38
5310-184-8971	4-20	28	5310-637-9541	4-19	33
5310-184-8977	4-18	41	5310-637-9541	4-20	10
5310-187-2413	4-17	8	5310-638-2605	4-10	9
5310-187-2413	4-20	11	5310-807-1467	4-8	134
5310-187-2413	4-20	18	5310-807-1467	4-8	141
5310-187-2413	4-20	28	5310-807-1467	4-12	58
5310-188-0473	4-12	61	5310-809-4058	4-18	90
5310-193-7577	4-11	26	5310-809-4058	4-18	91
5310-193-7577	4-11	27	5310-811-3494	4-11	44
5310-193-7577	4-11	34	5310-811-3494	4-11	47
5310-194-0634	4-18	41	5310-811-3494	4-12	75
5310-208-2352	4-16	24	5310-811-3494	4-16	8
5310-208-8697	4-20	12	5310-877-5795	4-8	130
5310-208-9595	4-20	12	5310-877-5796	4-8	63
5310-268-6041	4-17	8	5310-877-5796	4-8	137
5310-268-6041	4-19	33	5310-877-5796	4-8	148
5310-268-6041	4-20	10	5310-877-5796	4-8	166
5310-268-6041	4-20	18	5310-877-5797	4-4	7
5310-282-7835	4-11	39	5310-877-5797	4-9	14
5310-316-8826	4-20	12	5310-877-5797	4-9	19
5310-515-8058	4-4	24	5310-877-5797	4-11	20
5310-515-8058	4-8	157	5310-877-5797	4-12	72
5310-515-8058	4-11	44	5310-934-9739	4-19	9
5310-515-8058	4-11	47	5310-934-9739	4-19	34
5310-515-8058	4-12	75	5310-934-9739	4-19	37
5310-515-8058	4-18	47	5310-934-9739	4-19	38
5310-527-4688	4-12	76	5310-934-9747	4-8	124
5310-543-2410	4-19	9	5310-934-9747	4-11	32
5310-543-2410	4-19	34	5310-934-9748	4-11	27
5310-543-2410	4-19	37	5310-934-9751	4-4	22
5310-543-2410	4-19	38	5310-934-9751	4-8	98
5310-550-1130	4-8	67	5310-934-9751	4-8	103
5310-576-5752	4-8	126	5310-934-9751	4-8	114
5310-576-5752	4-12	20	5310-934-9751	4-8	171
5310-579-0079	4-8	122	5310-934-9751	4-10	5
5310-579-0079	4-11	31	5310-934-9751	4-10	12
5310-582-5965	4-8	4	5310-934-9751	4-10	17
5310-582-5965	4-8	17	5310-934-9751	4-15	7
5310-582-5965	4-8	45	5310-934-9751	4-15	12
5310-582-5965	4-8	108	5310-934-9751	4-20	6
5310-582-5965	4-10	20	5310-934-9757	4-8	157
5310-582-5965	4-12	77	5310-934-9757	4-16	29
5310-582-5965	4-12	80	5310-934-9757	4-18	37
5310-582-6058	4-4	39	5310-950-1310	4-19	9
5310-596-2574	4-7	28	5310-950-1310	4-19	34
5310-596-2574	4-8	162	5310-950-1310	4-19	37
5310-596-7693	4-8	157	5310-950-1310	4-19	38
5310-637-9541	4-12	31			

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5315-221-2738	4-8	139	5640-292-6439	4-15	22
5315-265-9899	4-8	132	5905-059-9451	4-18	46
5315-291-2023	4-8	117	5905-098-9668	4-8	105
5315-449-2945	4-5	9	5905-321-4636	4-8	104
5315-449-2945	4-16	20	5925-913-2094	4-18	31
5315-514-2660	4-9	9	5925-913-2094	4-19	40
5315-812-3759	4-9	5	5930-326-5024	4-4	
5315-816-1794	4-7	12	5930-398-1517	4-8	115
5315-816-1794	4-7	18	5930-501-1749	4-17	2
5315-839-2325	4-8	40	5930-501-1749	4-8	151
5315-839-2325	4-9	6	5930-538-5508	4-18	26
5315-839-5820	4-4	40	5930-543-8394	4-18	27
5315-842-3044	4-12	14	5930-543-8394	4-18	33
5320-117-6951	4-15		5930-687-1097	4-18	17
5325-185-0017	4-18	78	5930-755-2003	4-18	19
5325-202-2691	4-5	9	5930-835-0340	4-8	118
5325-263-6632	4-19	14	5935-257-8321	4-11	12
5325-276-6082	4-11	42	5935-259-0048	4-17	1
5325-276-6091	4-17	21	5935-280-2353	4-20	22
5325-276-6100	4-8	127	5935-549-4690	4-18	51
5325-291-9366	4-8	159	5935-686-9542	4-19	34
5325-291-9366	4-10	24	5935-721-0488	4-17	2
5325-433-0161	4-19	17	5935-721-1081	4-17	2
5325-599-8790	4-5	8	5935-725-4591	4-17	3
5325-834-1789	4-19	12	5935-726-0707	4-19	36
5325-991-0442	4-19	16	5935-727-7559	4-17	4
5330-050-1211	4-8	6	5935-806-4181	4-17	2
5330-171-6732	4-8	51	5935-806-4181	4-17	3
5330-196-6708	4-12	66	5935-806-4181	4-17	4
5330-231-3398	4-9	15	5935-849-7170	4-19	36
5330-359-1277	4-8	7	5935-853-3320	4-20	22
5330-514-3289	4-8	56	5935-879-0236	4-19	37
5330-752-8605	4-12	24	5935-879-1147	4-17	2
5330-883-8230	4-12	27	5935-988-3353	4-19	38
5340-067-9875	4-9	3	5940-050-6209	4-19	24
5340-068-0527	4-9	4	5940-114-1306	4-8	88
5340-068-0528	4-9	2	5940-114-1306	4-19	8
5340-078-0564	4-8	49	5940-115-5006	4-19	1
5340-200-4041	4-4	27	5940-115-5006	4-19	2
5340-200-4114	4-16	27	5940-115-5006	4-19	3
5340-200-8670	4-16	7	5940-115-5006	4-19	4
5340-214-1630	4-20	9	5940-115-5006	4-19	18
5340-257-3765	4-12	73	5940-115-5006	4-19	19
5340-292-0251	4-20	5	5940-115-5006	4-19	20
5340-312-2662	4-8	19	5940-115-5006	4-19	21
5340-514-2640	4-18	37	5940-115-5006	4-20	18
5340-533-3513	4-11		5940-115-5006	4-20	19
5340-533-3516	4-10	3	5940-115-5006	4-20	20
5340-533-3516	4-10	11	5940-115-5006	4-20	21
5340-533-3516	4-10	16	5940-115-5006	4-20	33
5340-576-0714	4-5	17	5940-115-5006	4-20	34
5340-580-3638	4-19	57	5940-143-4775	4-19	34
5340-598-8243	4-19	23	5940-143-4775	4-20	22
5340-598-8243	4-19	30	5940-143-4780	4-19	24
5340-598-8243	4-19	32	5940-143-4780	4-19	37
5340-598-8630	4-4	4	5940-143-4780	4-20	22
5340-598-8630	4-4	13	5940-143-4794	4-19	34
5340-598-8630	4-4	18	5940-197-9756	4-19	38
5340-598-8630	4-6	9	5940-204-7477	4-18	61
5340-598-8631	4-6	6	5940-229-7565	4-19	38
5340-634-6856	4-17		5940-236-7176	4-19	24
5340-702-0604	4-18	88	5940-502-7570	4-17	5
5340-804-2779	4-8	8	5940-557-4338	4-19	24
5340-813-8485	4-19	59	5940-557-8906	4-18	56
5340-819-7868	4-12	2	5940-577-3711	4-19	34
5340-837-4982	4-19	64	5940-804-0520	4-19	3
5340-993-6244	4-5	1	5940-804-0520	4-19	18
5340-993-6245	4-8	90	5940-804-0520	4-20	18
5340-993-6245	4-8	156	5940-804-0520	4-20	19
5355-538-7331	4-18	25	5940-804-0520	4-20	20
5640-292-6439	4-11	36	5940-804-0520	4-20	21

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5940-804-0520	4-20	33	6115-329-3903	4-19	8
5940-804-0520	4-20	34	6115-329-3925	4-17	5
5940-806-4302	4-18	41	6115-329-3936	4-8	68
5940-950-1610	BULK		6115-332-1753	4-4	10
5940-950-7782	BULK		6115-332-1753	4-4	15
5945-323-2165	4-18	44	6115-332-1753	4-6	3
5945-346-3642	4-18	91	6115-346-3649	4-8	34
5945-653-9437	4-12	59	6115-509-0792	4-6	10
5945-762-0488	4-18	42	6115-509-0795	4-15	27
5945-773-3392	4-19	27	6115-532-4606	4-8	59
5975-312-8609	4-20	7	6115-536-1703	4-20	29
5975-553-6995	4-17	2	6115-553-7587	4-19	25
5975-553-7151	4-17	2	6115-589-2461	4-12	16
6105-686-4563	4-8	164	6115-598-6560	4-8	149
6110-538-8029	4-8	172	6115-659-2112	4-4	14
6110-852-0682	4-18	71	6115-659-2112	4-4	19
6110-877-2470	4-18	35	6115-820-1494	4-8	87
6115-032-4825	4-8	11	6115-884-1485	4-12	32
6115-035-6251	4-8	12	6115-994-8237	4-18	87
6115-085-2084	4-12	19	6140-248-6148	4-11	1
6115-092-8100	4-9	1	6140-308-1315	4-11	14
6115-097-4081	4-18	62	6140-578-7444	4-11	13
6115-099-4036	4-19	38	6150-284-0507	4-20	24
6115-113-4590	4-8	150	6150-284-0510	4-20	25
6115-156-3958	4-15	23	6150-284-0511	4-20	23
6115-204-0999	4-12	4	6150-284-1187	4-20	2
6115-212-4341	4-8	59	6210-722-6455	4-18	24
6115-212-4345	4-8	1	6210-803-9882	4-18	30
6115-213-8573	4-11	23	6210-807-3162	4-18	22
6115-213-9159	4-8	15	6240-155-7848	4-18	77
6115-213-9164	4-4	20	6240-155-8714	4-18	21
6115-289-4558	4-12	42	6240-155-8714	4-18	23
6115-293-5744	4-8	14	6240-155-8714	4-18	29
6115-303-3794	4-6	1	6620-355-1605	4-15	13
6115-303-3795	4-4	8	6620-966-5837	4-18	1
6115-303-3815	4-15	19	6625-028-3542	4-18	15
6115-303-3817	4-8		6625-539-8621	4-18	11
6115-307-7369	4-8	99	6625-557-0913	4-20	35
6115-308-2132	4-11	16	6680-526-6708	4-18	3
6115-321-4637	4-15	3	6680-612-7867	4-9	7
6115-321-4639	4-12	3	6685-557-3105	4-18	5
6115-326-5324	4-8	13			

REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.
AN24-34A	88044	4-8	136
AN2551E30	88044	4-20	13
AN2552-3A	88044	4-18	51
AN27-52	81352	4-12	14
AN3-12A	88044	4-12	72
AN3-13A	88044	4-8	100
AN3-13A	88044	4-20	6
AN3-26A	88044	4-8	95
AN3-3A	88044	4-8	173
AN3-3CA	88044	4-12	57
AN3-4A	88044	4-4	22
AN3-4A	88044	4-8	111
AN3-4A	88044	4-8	168
AN3-5A	88044	4-4	21
AN3-5A	88044	4-20	8
AN3-7A	88044	4-12	20
AN310-5	88044	4-8	39
AN310-6	88044	4-4	39
AN315-4R	88044	4-8	18
AN315-4R	88044	4-8	46
AN315-4R	88044	4-12	77
AN315-5R	88044	4-19	54
AN315-5R	88044	4-19	63
AN315-6R	88044	4-12	31
AN315-6R	88044	4-12	33
AN315-6R	88044	4-12	37
AN3150-2	88044	4-11	1
AN320-7	88044	4-12	14
AN345C416	88044	4-10	20
AN360-6	88044	4-17	8
AN360-6	88044	4-19	33
AN360-6	88044	4-20	10
AN360-6	88044	4-20	18
AN386-2-18A	88044	4-8	132
AN386-2-19A	88044	4-8	139
AN4-12A	88044	4-8	106
AN4-13A	88044	4-8	60
AN4-16A	88044	4-8	165
AN4-17A	88044	4-8	165
AN5-14A	88044	4-19	56
AN5-7A	88044	4-11	4
AN502-10-12	88044	4-11	10
AN507-632R6	88044	4-11	30
AN515-10R8	88044	4-8	126
AN520-416R10	88044	4-8	3
AN525-1018	88044	4-4	7
AN5534-2	88044	4-18	46
AN5538-1	88044	4-17	5
AN5539-1	88044	4-19	38
AN5539-2	88044	4-19	38
AN6-53	88044	4-4	37
AN6-6A	88044	4-20	10
AN6227B8	88044	4-8	6
AN6270-4-14	88044	4-12	50
AN6270-6-12	88044	4-12	52
AN6270-6-12	88044	4-12	84
AN6370-10-14	88044	4-12	21
AN7-33A	88044	4-12	6
AN7-44A	88044	4-12	5
AN737RM56	88044	4-11	
AN737RM56	88044	4-15	30
AN737RM58	88044	4-12	43
AN737RM58	88044	4-12	47
AN737RM58	88044	4-15	
AN737RM58	88044	4-15	18
AN737RM91	88044	4-15	
AN737T474	88044	4-12	41
AN737TM74	88044	4-15	
AN737TM74	88044	4-15	
AN737TM74	88044	4-15	2
AN737TW107	88044	4-12	45
AN737TW107	88044	4-12	49
AN742-11	88044	4-16	7
AN776-8	88044	4-12	67
ANS-26	88044	4-7	6
AN8-33	88044	4-7	5
AN8-33	88044	4-7	10
AN816-10-12D	88044	4-12	22
AN816-12D	88044	4-12	
AN816-6D	88044	4-10	23
AN816-6D	88044	4-12	83
AN816-7D	88044	4-12	
AN832-6D	88044	4-10	8
AN840-8D	88044	4-11	46
AN901-8C	88044	4-12	66
AN909-16	88044	4-12	26
AN911-2	88044	4-10	22
AN912-2D	88044	4-12	55
AN915-2	88044	4-12	
AN917-3	88044	4-11	45
AN929-12	88044	4-12	
AN960-10	88044	4-4	22
AN960-10	88044	4-5	1
AN960-10	88044	4-8	96
AN960-10	88044	4-8	101
AN960-10	88044	4-8	112
AN960-10	88044	4-8	126
AN960-10	88044	4-8	169
AN960-10	88044	4-10	5
AN960-10	88044	4-10	12
AN960-10	88044	4-10	17
AN960-10	88044	4-11	18
AN960-10	88044	4-12	20
AN960-10	88044	4-12	58
AN960-10	88044	4-12	72
AN960-10	88044	4-15	6
AN960-10	88044	4-15	10
AN960-10	88044	4-15	16
AN960-10	88044	4-18	43
AN960-10	88044	4-18	45
AN960-10	88044	4-18	70
AN960-10	88044	4-18	72
AN960-10	88044	4-18	74
AN960-10	88044	4-18	76
AN960-10	88044	4-20	6
AN960-10	88044	4-20	8
AN960-10	88044	4-20	30
AN960-10	88044	4-20	36
AN960-10L	88044	4-8	174
AN960-1216L	88044	4-7	8
AN960-416	88044	4-8	44
AN960-416	88044	4-8	61
AN960-416	88044	4-8	107
AN960-416	88044	4-8	147
AN960-416	88044	4-8	166
AN960-416	88044	4-10	20
AN960-416	88044	4-12	80
AN960-416L	88044	4-8	16
AN960-416L	88044	4-8	62
AN960-516	88044	4-8	38
AN960-516	88044	4-11	7
AN960-516L	88044	4-8	24
AN960-6	88044	4-4	26
AN960-6	88044	4-8	123
AN960-616	88044	4-4	38
AN960-616	88044	4-12	31
AN960-616	88044	4-12	35
AN960-616	88044	4-12	39
AN960-616	88044	4-19	33
AN960-616	88044	4-20	10
AN960-716	88044	4-12	8
AN960-716	88044	4-12	11

REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.	REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.
AN960-8	88044	4-4	24	MS21044N04	96906	4-18	40
AN960-8	88044	4-8	157	MS21044N04	96906	4-18	54
AN960-8	88044	4-11	44	MS21044N08	96906	4-11	44
AN960-8	88044	4-11	47	MS21044N08	96906	4-11	47
AN960-8	88044	4-12	75	MS21044N08	96906	4-12	75
AN960-8	88044	4-18	47	MS21044N08	96906	4-16	8
AN960-816	88044	4-7	7	MS21044N3	96906	4-4	7
AN960-816	88044	4-7	15	MS21044N3	96906	4-9	14
AN960-816L	88044	4-8	129	MS21044N3	96906	4-9	19
AN960B1416	88044	4-20	12	MS21044N3	96906	4-11	20
AN960B816	88044	4-18	80	MS21044N3	96906	4-12	72
AN960B816	88044	4-20	3	MS21044N4	96906	4-8	63
AN960B816	88044	4-20	15	MS21044N4	96906	4-8	137
AN960B816	88044	4-20	26	MS21044N4	96906	4-8	148
AN961-6	88044	4-18	41	MS21044N4	96906	4-8	166
AN961-616	88044	4-17	8	MS21044N5	96906	4-11	6
AN961-616	88044	4-20	11	MS21044N7	96906	4-12	9
AN961-616	88044	4-20	18	MS21044N7	96906	4-12	11
AN961-616	88044	4-20	28	MS21044N8	96906	4-8	130
AN975-3	88044	4-8	133	MS21251B3S	96906	4-9	3
AN975-3	88044	4-8	140	MS21252-3LS	96906	4-9	2
A321	61463	4-16	27	MS21252-3RS	96906	4-9	4
A370397	66503	4-12	70	MS24392D6	96906	4-10	14
A846-1	74063	4-18	91	MS24398D6-4	96906	4-12	51
BA104H	74063	4-19	27	MS24400D6	96906	4-10	9
B75-1	79960	4-12	59	MS24400D8	96906	4-11	39
CL276	14704	4-18	87	MS24506-15	96906	4-18	31
C3641-037-27	78553	4-4	10	MS24506-15	96906	4-19	40
C3641-037-27	78553	4-4	15	MS24587-10	96906	4-12	21
C3641-037-27	78553	4-6	3	MS24665-132	96906	4-8	40
C36428050-67	78553	4-4	14	MS24665-132	96906	4-9	6
C36428050-67	78553	4-4	19	MS24665-134	96906	4-4	40
D1339G1	46522	4-15	13	MS24665-283	96906	4-12	14
D6364-2-120	82647	4-19	10	MS24665-285	96906	4-7	12
EAB700-6	81996	4-11		MS24665-285	96906	4-7	18
EAB700-9	81996	4-10	3	MS24693S51	96906	4-16	8
EAB700-9	81996	4-10	11	MS24694S51	96906	4-15	23
EAB700-9	81996	4-10	16	MS25002-1	96906	4-18	26
EAB700D10	81996	4-5	1	MS25026-1	96906	4-8	118
EAB700D5	81996	4-8	90	MS25036-103	96906	4-19	34
EAB700D5	81996	4-8	156	MS25036-108	96906	4-19	24
G301370	95879	4-8		MS25036-108	96906	4-19	37
G32-3F	31435	4-12	30	MS25036-108	96906	4-20	22
H5000CK181-125	83014	4-4	4	MS25036-112	96906	4-19	34
H5000CK181-125	83014	4-4	13	MS25036-117	96906	4-8	88
H5000CK181-125	83014	4-4	18	MS25036-117	96906	4-19	8
H5000CK181-125	83014	4-6	9	MS25036-125	96906	4-19	24
H5000CK181-188	83014	4-5	17	MS25036-133	96906	4-19	1
H5000CK181-250	83014	4-6	6	MS25036-133	96906	4-19	2
J5385-1	76005	4-4	27	MS25036-133	96906	4-19	3
L100W	03479	4-12	60	MS25036-133	96906	4-19	4
MC815	74063	4-8	172	MS25036-133	96906	4-19	18
MS15003-1	96906	4-8	143	MS25036-133	96906	4-19	19
MS15570-303	96906	4-18	77	MS25036-133	96906	4-19	20
MS16625-1300	96906	4-8	8	MS25036-133	96906	4-19	21
NS20074-05-14	96906	4-8	23	MS25036-133	96906	4-20	18
MS20392-2-11	96906	4-9	5	MS25036-133	96906	4-20	19
MS20426AD4-6	96906	4-15		MS25036-133	96906	4-20	20
MS20659-11	96906	4-19	24	MS25036-133	96906	4-20	21
MS20659-145	96906	4-19	24	MS25036-133	96906	4-20	33
MS20822-6D	96906	4-10	18	MS25036-133	96906	4-20	34
MS20822-6D	96906	4-10	30	MS25036-134	96906	4-19	3
MS20822-6D	96906	4-12	53	MS25036-134	96906	4-19	18
MS20822-6D	96906	4-12	85	MS25036-134	96906	4-20	18
MS20826-6D	96906	4-12	54	MS25036-134	96906	4-20	19
MS20913-2S	96906	4-8	70	MS25036-134	96906	4-20	20
MS20913-3S	96906	4-8	69	MS25036-134	96906	4-20	21
MS20913-38	96906	4-12	65	MS25036-134	96906	4-20	33
MS21042-3	96906	4-8	134	MS25036-134	96906	4-20	34
MS21042-3	96906	4-8	141	MS25036-156	96906	4-19	34
MS21042-3	96906	4-12	58	MS25036-156	96906	4-20	22

REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.	REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.
MS25089-3C	96906	4-8	151	MS35206-247	96906	4-18	47
MS25089-3C	96906	4-17	2	MS35206-248	96906	4-11	44
MS25102-22	96906	4-18	17	MS35206-248	96906	4-11	47
MS25103-23	96906	4-18	27	MS35207-261	96906	4-4	32
MS25103-23	96906	4-18	33	MS35207-261	96906	4-15	14
MS25104-31	96906	4-18	19	MS35207-263	96906	4-10	12
MS25166-1	96906	4-18	25	MS35207-263	96906	4-10	17
MS25171-1S	96906	4-17	2	MS35207-263	96906	4-11	17
MS25171-2S	96906	4-17	2	MS35207-263	96906	4-15	4
MS25226-2-6	96906	4-18	56	MS35207-263	96906	4-15	9
MS25226-2-7	96906	4-18	41	MS35207-263	96906	4-18	90
MS25231-313	96906	4-18	21	MS35207-264	96906	4-4	9
MS25231-313	96906	4-18	23	MS35207-264	96906	4-12	61
MS25231-313	96906	4-18	29	MS35207-264	96906	4-18	43
MS25331-7	96906	4-18	22	MS35207-264	96906	4-18	45
MS25331-8	96906	4-18	24	MS35207-264	96906	4-18	72
MS25331-9	96906	4-18	30	MS35207-264	96906	4-18	74
MS25486-21	96906	4-19	25	MS35207-264	96906	4-18	76
MS27183-10	96906	4-18	90	MS35207-264	96906	4-18	91
MS27183-10	96906	4-18	91	MS35207-264	96906	4-19	31
MS27183-4	96906	4-19	9	MS35207-265	96906	4-18	70
MS27183-4	96906	4-19	34	MS35207-265	96906	4-20	30
MS27183-4	96906	4-19	37	MS35207-268	96906	4-10	4
MS27183-4	96906	4-19	38	MS35207-565	96906	4-20	36
MS27212-1-20	96906	BULK		MS35214-27	96906	4-18	18
MS27212-1-8	96906	4-18	39	MS35214-27	96906	4-18	20
MS27212-1-8	96906	4-18	53	MS35214-27	96906	4-18	28
MS27212-3-2	96906	4-19	28	MS35214-27	96906	4-18	32
MS27212-3-8	96906	BULK		MS35214-27	96906	4-18	34
MS27363H0200	96906	4-12	68	MS35214-29	96906	4-18	2
MS27404-4D	96906	4-12	50	MS35214-29	96906	4-18	4
MS27433-300	96906	4-18	73	MS35214-29	96906	4-18	6
MS27433-600	96906	4-18	75	MS35214-29	96906	4-18	12
MS27975-2	96906	4-12	73	MS35214-29	96906	4-18	16
MS28760-6	96906	4-12	52	MS35333-36	96906	4-11	26
MS28760-6	96906	4-12	84	MS35333-36	96906	4-11	27
MS29523-1	96906	4-9	9	MS35333-36	96906	4-11	34
MS3057-16A	96906	4-20	22	MS35333-37	96906	4-8	122
MS3100R18-15S	96906	4-19	38	MS35333-37	96906	4-11	31
MS3100R18-9S	96906	4-19	36	MS35333-39	96906	4-8	126
MS3100R20-15P	96906	4-19	34	MS35333-39	96906	4-12	20
MS3100R20-16S	96906	4-19	36	MS35333-40	96906	4-8	67
MS3100R28-9P	96906	4-20	22	MS35335-31	96906	4-8	157
MS3106R14S6P	96906	4-17	2	MS35338-103	96906	4-17	8
MS3106R14S6S	96906	4-17	2	MS35338-103	96906	4-20	11
MS3106R18-15P	96906	4-17	5	MS35338-103	96906	4-20	18
MS3106R18-9P	96906	4-17	3	MS35338-103	96906	4-20	28
MS3106R18-9S	96906	4-17	4	MS35338-40	96906	4-19	9
MS3106R20-15S	96906	4-17	1	MS35338-40	96906	4-19	34
MS3106R20-16P	96906	4-17	2	MS35338-40	96906	4-19	37
MS3106R24-7S	96906	4-17	2	MS35338-40	96906	4-19	38
MS3106R24-7S	96906	4-17	3	MS35338-42	96906	4-8	155
MS3106R24-7S	96906	4-17	4	MS35338-42	96906	4-16	28
MS3106R28-9S	96906	4-19	37	MS35338-42	96906	4-18	37
MS35191-276	96906	4-18	52	MS35338-43	96906	4-4	22
MS35206-213	96906	4-11	25	MS35338-43	96906	4-8	97
MS35206-213	96906	4-11	33	MS35338-43	96906	4-8	102
MS35206-215	96906	4-18	40	MS35338-43	96906	4-8	113
MS35206-215	96906	4-18	54	MS35338-43	96906	4-8	170
MS35206-215	96906	4-19	9	MS35338-43	96906	4-10	5
MS35206-215	96906	4-19	34	MS35338-43	96906	4-10	12
MS35206-215	96906	4-19	37	MS35338-43	96906	4-10	17
MS35206-215	96906	4-19	38	MS35338-43	96906	4-11	11
MS35206-220	96906	4-11	27	MS35338-43	96906	4-11	19
MS35206-228	96906	4-8	152	MS35338-43	96906	4-15	5
MS35206-235	96906	4-4	26	MS35338-43	96906	4-15	11
MS35206-243	96906	4-19	11	MS35338-43	96906	4-15	15
MS35206-245	96906	4-4	24	MS35338-43	96906	4-20	6
MS35206-245	96906	4-8	154	MS35338-44	96906	4-8	4
MS35206-247	96906	4-8	157	MS35338-44	96906	4-8	17
MS35206-247	96906	4-12	75	MS35338-44	96906	4-8	45

REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.	REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.
MS35338-44	96906	4-8	108	1096	75165	4-11	36
MS35338-44	96906	4-10	20	1096	75165	4-15	22
MS35338-44	96906	4-12	77	112436-6	70898	4-19	16
MS35338-44	96906	4-12	80	11751-1	71468	4-11	12
MS35338-46	96906	4-12	31	14276	60038	4-7	25
MS35338-46	96906	4-12	34	1507843	70040	4-18	1
MS35338-46	96906	4-12	38	1548091	70040	4-18	3
MS35338-46	96906	4-19	33	189631	70898	4-9	15
MS35338-46	96906	4-20	10	20-87084-11	76301	4-11	13
MS35338-98	96906	4-18	41	20B82-3A	83298	4-18	71
MS35392-52	96906	4-7	35	22A5-02	72962	4-16	24
MS35392-52	96906	4-8		231-0001-1	70898	4-8	164
MS35426-14	96906	4-19	61	231-0003	70898	4-8	59
MS35426-15	96906	4-11	5	231-0008	70898	4-8	59
MS35426-15	96906	4-19	58	231-0013-1	70898	4-8	20
MS35489-11	96906	4-8	159	231-0014-1	70898	4-8	22
MS35489-11	96906	4-10	24	231-0025	70898	4-8	15
MS35489-118	96906	4-19	12	231-0032	70898	4-8	1
MS35489-14	96906	4-8	127	231-0038	70898	4-7	
MS35489-19	96906	4-17	21	231-0039	70898	4-8	12
MS35489-33	96906	4-18	78	231-0049	70898	4-8	30
MS35489-43	96906	4-11	42	231-0054	70898	4-8	13
MS35489-6	96906	4-19	14	231-0058	70898	4-8	131
MS35649-242	96906	4-19	9	231-0065-2	70898	4-8	29
MS35649-242	96906	4-19	34	231-0105	70898	4-9	1
MS35649-242	96906	4-19	37	231-0126	70898	4-8	19
MS35649-242	96906	4-19	38	231-0153	70898	4-8	71
MS35649-244	96906	4-11	27	231-0154	70898	4-8	135
MS35649-262	96906	4-8	124	231-0208	70898	4-20	3
MS35649-262	96906	4-11	32	231-0208	70898	4-20	15
MS35649-282	96906	4-8	157	231-0242	70898	4-8	115
MS35649-282	96906	4-16	29	231-0303	70898	4-8	14
MS35649-282	96906	4-18	37	231-0366	70898	4-12	2
MS35650-302	96906	4-4	22	231-0391	70898	4-11	23
MS35650-302	96906	4-8	98	231-0395	70898	4-16	13
MS35650-302	96906	4-8	103	231-0416	70898	4-19	8
MS35650-302	96906	4-8	114	231-0417	70890	4-8	87
MS35650-302	96906	4-8	171	235-0029	70898	4-4	11
MS35650-302	96906	4-10	5	235-0030-1	70898	4-3	2
MS35650-302	96906	4-10	12	235-0030-1	70898	4-5	
MS35650-302	96906	4-10	17	235-0030-177	70898	4-5	
MS35650-302	96906	4-15	7	235-0031	70898	4-5	
MS35650-302	96906	4-15	12	235-0035-52	70898	4-6	4
MS35650-302	96906	4-20	6	235-0035-58	70898	4-3	4
MS35692-828	96906	4-7	13	235-0035-58	70898	4-6	
MS35692-828	96906	4-7	19	235-0035-58	70898	4-6	7
MS35769-15	96906	4-12	24	235-0048	70898	4-16	22
MS35769-21	96906	4-8	56	235-0062	70898	4-4	6
MS35769-48	96906	4-12	27	235-0069	70898	4-6	1
MS63040-7	96906	4-12	7	235-0072	70898	4-5	15
MS90410-2	96906	4-18	5	235-0085	70898	4-4	8
MS90726-17	96906	4-19	62	235-0092-2	70898	4-8	104
MS90726-34	96906	4-19	53	235-0092-4	70898	4-8	105
NAS43HT4-96	80205	4-19	64	235-0093-4	70898	4-8	99
NAS43HT5-12	80205	4-19	57	235-0098	70898	4-15	3
NAS43HT5-24	80205	4-19	59	235-0100	70898	4-3	1
NAS437-3B	80205	4-19	23	235-0100	70898	4-4	
NAS437-3B	80205	4-19	30	235-0100-24	70898	4-4	16
NAS437-3B	80205	4-19	32	235-0106	70898	4-4	
NAS75-8-021	80205	4-8	176	235-0126	70898	4-9	7
NAS75-8-027	80205	4-8	175	235-0135	70898	4-9	8
PE150-2SPEC11	14351	4-12	1	235-0156	70898	4-11	2
PR9502AC	77221	4-18	44	235-1000	70898	4-3	10
RYU1A	74063	4-18	42	235-1000	70898	4-12	
R32-96	90005	4-9	16	235-1007	70898	4-12	3
S5SQ5A7	38443	4-8	36	235-1008	70898	4-12	4
102809-187-308	70898	4-8	117	235-1012-14	70898	4-12	19
103HD1-4X1-4	30327	4-10	19	235-1013	70898	4-12	25
105739X0500-0750-2125	70898	4-7	11	235-1025	70898	4-10	26
105739X0500-0750-2125	70898	4-7	17	235-1027	70898	4-10	27
108059	75345	4-9	11	235-1030	70898	4-3	8

REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.	REFERENCE NO.	MFG CODE	FIG NO.	ITEM NO.
235-1030	70898	4-10		506209	21450	4-19	24
235-1047-38	70898	4-12	16	50679	61463	4-18	37
235-1057-16	70898	4-12	46	51118	61864	4-18	89
235-1057-18	70898	4-12	42	51142	61864	4-18	88
235-1057-20	70898	4-12	48	5264-6A	52793	4-7	
235-1057-22	70898	4-12	44	5264-6A	52793	4-8	161
235-1057-52	70898	4-15	17	539755	14351	4-12	74
235-1057-60	70898	4-15	20	56-941-45	75377	4-12	61
235-1057-8	70898	4-15		560-234	28569	4-18	15
235-1070	70898	4-3	5	567824	90005	4-9	17
235-1070	70898	4-7		62B40038	98749	4-8	48
235-1072	70898	4-7	9	62B40039-1	98749	4-8	49
235-1078	70898	4-4	20	62B40039-3	98749	4-8	50
235-1080	70898	4-3	11	626224	73471	4-12	56
235-1080	70898	4-15		63C40173	98749	4-8	
235-1084	70898	4-15	19	63F40357	98749	4-15	23
235-1099	70898	4-11	16	63X115	73680	4-8	51
235-1100-10	70898	4-8		63X1204	73680	4-8	7
235-1100-12	70898	4-3	6	64E24191	80049	4-3	7
235-1100-12	70898	4-8		64E24191	80049	4-9	
235-1100-2	70898	4-8		66C41197	98749	4-19	38
235-1104	70898	4-8	35	66C41264	98749	4-17	5
235-1105	70898	4-8	64	66C42130	98749	4-8	150
235-1106-8	70898	4-8	20	66C42140-10	80049	4-20	20
235-1107	70898	4-8	42	66C42140-14	80049	4-20	33
235-1109	70898	4-8	65	66C42140-18	80049	4-20	19
235-1133	70898	4-8	149	66C42140-2	80049	4-20	21
235-1152	70898	4-8	11	66C42140-26	70898	4-20	18
235-1155	70898	4-8	5	66C42140-32	80049	4-20	34
235-2012	70898	4-18	69	66C42140-50	80049	4-19	2
235-2017	70898	4-19	33	66C42140-54	80049	4-19	1
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235-2058	70898	4-18	82	66C42140-62	80049	4-19	4
235-2058	70898	4-20	26	66C42140-66	80049	4-19	21
235-2094	70898	4-18	80	66C42140-70	80049	4-19	20
235-2094	70898	4-20	14	66C42140-74	80049	4-19	19
235-2095	70898	4-18	61	66C42140-78	80049	4-19	18
235-2101	70898	4-4		66J37253	80049	4-3	9
235-2119	70898	4-18	62	66J37253	80049	4-11	
235-2131	70898	4-20	23	68D4146	80049	4-17	1
235-2132	70898	4-20	24	68D41461	80049	4-19	36
235-2133	70898	4-20	25	68D41464	80049	4-20	22
235-2136	70898	4-18	67	68D41469	80049	4-19	34
235-2137	70898	4-20	5	68D41662	80049	4-19	36
235-2138	70898	4-20	7	68E41465	80049	4-17	3
235-2139	70898	4-20	9	68E41468	80049	4-17	2
235-2213	70898	4-3	14	68F41463	80049	4-17	4
235-2213	70898	4-19		68J41505	80049	4-3	12
235-3014	70898	4-12	10	68J41505	80049	4-3	13
235-3068	70898	4-8	68	68J41505	80049	4-16	
235-3103	70898	4-20	12	68J41505	80049	4-18	
235-3104	70898	4-20	12	69D37706	80049	4-19	24
235-3107	70898	4-3	15	69F38320	80049	4-3	13
235-3107	70898	4-20		69F38320	80049	4-17	
235-3108	70898	4-20	12	7805	52793	4-7	28
235-3110	70898	4-20	2	7805	52793	4-8	162
235-3124	70898	4-20	11	8AW43AAA213	24446	4-18	11
235-3134	70898	4-8	34	89897	59443	4-12	61
25164	14351	4-12	76	9109KFS179	21335	4-8	9
28B94-5A	83298	4-12	32	9110PP	21335	4-8	75
293-0100-622	70898	4-4	1	9111PP	21335	4-8	77
293-0100-623	70898	4-1	2	920-221	28569	4-20	35
293-0621-8	70898	4-12	71	9372	52793	4-7	
293-0654	70898	4-6	10	9372F	52793	4-7	
293-0671	70898	4-15	27	9372F	52793	4-8	160
293-0682	70898	4-12	82	9555A	77138	4-11	14
40E17-1B	19315	4-18	35	98292-1-130	61864	4-5	8
49138	90763	4-17		98292-2-200	61864	4-5	9
49338	61864	4-19	17	99836	61864	4-5	9
50K3-2	99246	4-20	29	99836	61864	4-16	20

ALPHABETICAL INDEX

F

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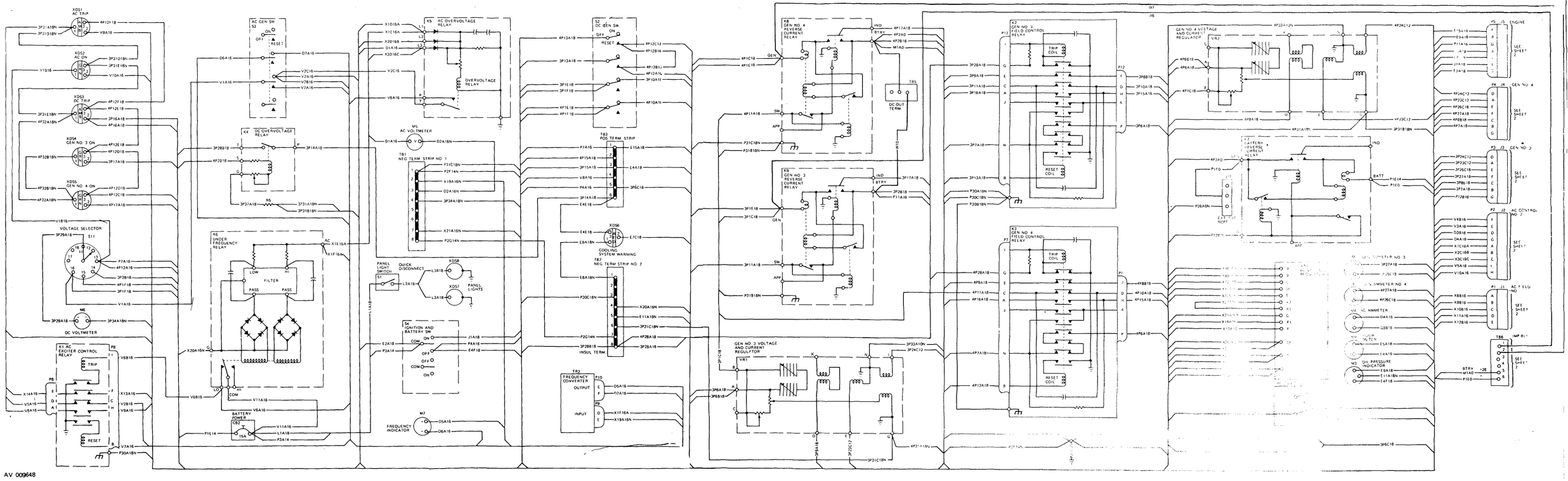

Figure 4-1. Generator set schematic diagram (sheet 1 of 2)

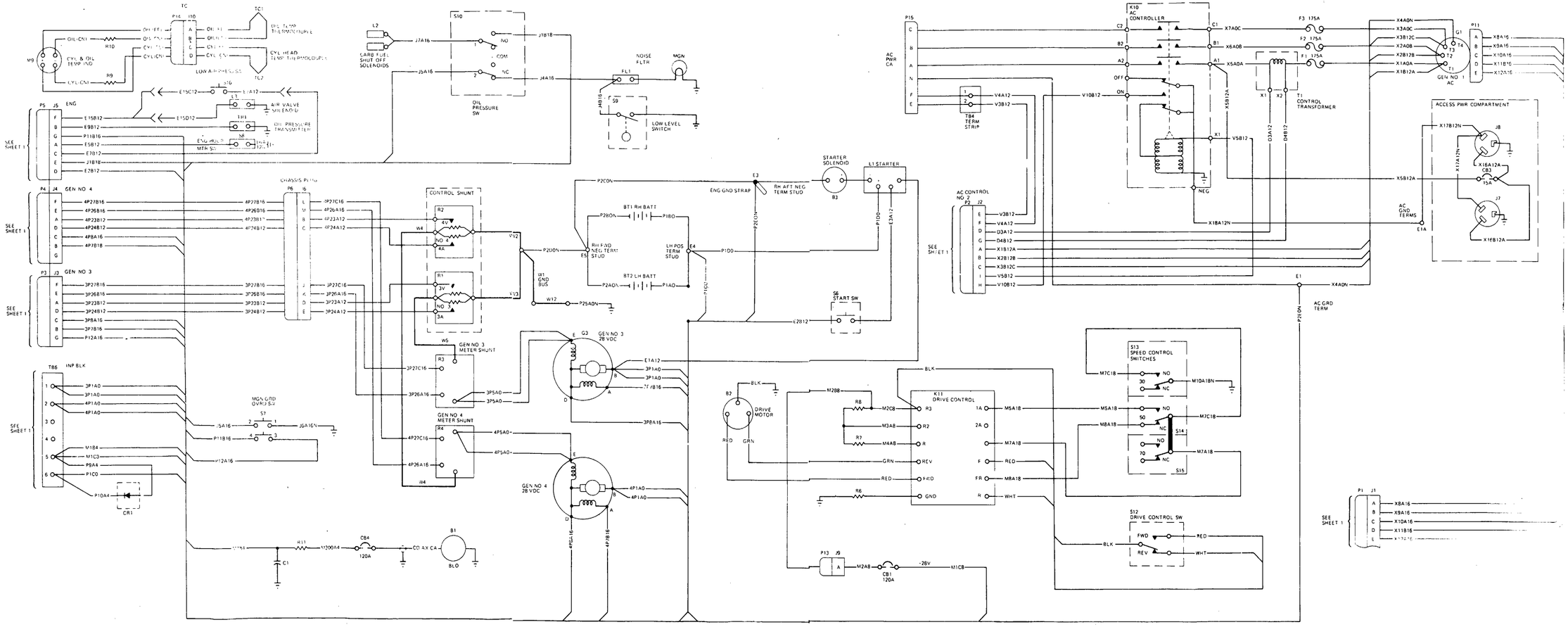

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Figure 4-1. Generator set schematic diagram (Sheet 2 of 2)

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