

**TECHNICAL MANUAL**

**UNIT, INTERMEDIATE DIRECT SUPPORT  
AND GENERAL SUPPORT  
REPAIR PARTS AND SPECIAL TOOLS LIST  
LOCOMOTIVE, DIESEL-ELECTRIC,  
56-1/2-INCH GAGE, 80-TON, 670 HP,  
0-4-4-0 WHEEL,  
MODEL B-B-160/160-4GE747-A1  
NSN 2210-01-158-2980**

**Approved for public release, distribution is unlimited**

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY  
2 OCTOBER 1989**

CHANGE }  
NO. 1 }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 31 March 1993

Unit, Intermediate Direct Support  
and General Support  
Repair Parts and Special Tools List

LOCOMOTIVE, DIESEL-ELECTRIC,  
56-1/2-INCH GAGE, 80-TON, 670 HP,  
0-4-4-0 WHEEL,  
MODEL B-B-160/160-4GE747-A1  
NSN 2210-01-158-2980

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

TM 55-2210-224-24P, 2 October 1989, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages

153-3 and Figure 154

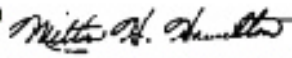
Insert pages

153-3 and Figure 154

2. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army

GORDON R. SULLIVAN  
General, United States Army  
Chief of Staff

Official   
MILTON H. HAMILTON  
Administrative Assistant to the  
Secretary of the Army  
03821

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25-E, block no. 2679, requirements for TM 55-2210-224-24P.

**Unit, Intermediate Direct Support and General Support Maintenance  
Repair Parts and Special Tools List  
LOCOMOTIVE, DIESEL-ELECTRIC: 56-1/2-INCH GAGE,  
80 TON, 670 HP, 0-4-4-0 WHEEL  
MODEL B-B-160/160-4GE747-A1  
NSN 2210-01-158-2980**

Current as of 13 June 1989

**REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help Improve this manual If you find any mistake or if you know of a way to Improve the procedures, please let us know Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in the back of this manual direct to. Commander, U S Army Troop Support Command, ATTN AMSTR-MCTS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798 A reply will be furnished directly to you

Approved for public release; distribution is unlimited.

**TABLE OF CONTENTS**

		Page	Illust/ Figure
Section I	Introduction .....	1	
Section II	Repair Parts List		
Group 01	Body Group		
	Door, Engine Hood .....	1-1	1
	Hand Rail Sides-Front.....	2-1	2
	Cutter Lever .....	3-1	3
	Steps .....	4-1	4
	Hood Assembly.....	5-1	5
Group 02	Cab Group		
	Seat and Cushion .....	6-1	6
	Arm Rest .....	7-1	7
	Windshield Wiper Blade, and Arm ..	8-1	8
	Motor, Windshield Wiper.....	9-1	9
	Window, Fixed.....	10-1	10
	Window, Front .....	11-1	11
	Cab Door and Lock .....	12-1	12
	Door, Side Compartment.....	13-1	13
	Door, Electrical Equipment Cabinet .....	14-1	14
Group 03	Bell Assembly, Safety Warning .....	15-1	15
	Valve, Safety Warning Bell Operating.....	16-1	16
	Bell, Multiple-Unit Engine Warning.....	17-1	17
	Buzzer, Engine System Warning .....	18-1	18

	Page	Illust/ Figure
Group 04	Horn Group	
	19-1	19
	Horn Assembly .....	
	20-1	20
	Valve, Horn Assembly Operating .....	
Group 05	Cab Heater Group	
	21-1	21
	Heater Assembly, Cab .....	
	22-1	22
	Motor, Heater .....	
	23-1	23
	Heater Lines, Hoses and Fittings.....	
Group 06	Gages and Instruments Group	
	24-1	24
	Air Gages, Duplex.....	
	25-1	25
	Gage, Oil Pressure .....	
	26-1	26
	Gage, Engine Temperature.....	
	27-1	27
	Gage, Load Meter .....	
	28-1	28
	Gage, Battery Volt Meter .....	
	29-1	29
	Gage, Service Meter.....	
	30-1	30
	Gage, Air Compressor Oil Pressure .....	
Group 07	Sander Group	
	31-1	31
	Controller, Sand.....	
	32-1	32
	Valve, Sander Control.....	
	33-1	33
	Hose Assembly, Sander.....	
	34-1	34
	Switch, Emergency Sand Pressure .....	
	35-1	35
	Sand System Piping.....	
Group 08	Electrical Accessories Group	
	36-1	36
	Switches .....	
	37-1	37
	Switch, Knife.....	
	38-1	38
	Circuit Breaker .....	
	39-1	39
	Lights, Indicator, Ground Relay and Wheel Slip .....	
	40-1	40
	Batteries and Connections .....	
	41-1	41
	Jumper, Multiple-Unit Control.....	
	42-1	42
	Receptacle, Multiple-Unit .....	
	43-1	43
	Receptacle, Engine Heater .....	
	44-1	44
	Timer .....	
Group 09	Light Group	
	45-1	45
	Headlamps .....	
	46-1	46
	Lights, Step, Cowling, Gage, Cab and Elect Cab.....	
Group 10	Controls, Electrical Group	
	47-1	47
	Contract, Field Shunt .....	
	48-1	48
	Contractor, Cranking.....	
	49-1	49
	Contractor, Power .....	
	50-1	50
	Relay, Engine Temperature Warning, Motor Kill, Safety and Field Shunt Transition.....	
	51-1	51
	Relay, Ground.....	
	52-1	52
	Relay, Wheel Slip Verify .....	
	53-1	53
	Reverse .....	
	54-1	54
	Shunt, Load Meter .....	
	55-1	55
	Resistor, Generator Field (Self).....	
	56-1	56
	Resistor, Field Shunt.....	
	57-1	57
	Resistor, Headlight and Generator Field.....	

	Page	Illust/ Figure
Group 10	Resistor, Gage Light.....	58-1 58
	Resistor, Wheel-Slip Relay.....	59-1 59
	Controller Mechanism .....	60-1 60
	Alternator, Speed-Sensing .....	61-1 61
	Panel, Transition .....	62-1 62
	Diodes, Blocking .....	63-1 63
	Terminal Boards.....	64-1 64
Group 11	Battery Charging Alternator Group	
	Belts, Battery Charging Alternator .....	65-1 65
	Alternator Assembly .....	66-1 66
Group 12	Main Generator Group	
	Main Generator .....	67-1 67
	Brushes, Carbon and Holders.....	68-1 68
Group 13	Exhaust System Group	
	Muffler and Extension Pipe, Exhaust.....	69-1 69
Group 14	Fuel System Group	
	Lines and Fittings, Fuel .....	70-1 70
	Switch, Emergency Shutdown .....	71-1 71
	Tank and Level Gage, Fuel.....	72-1 72
Group 15	Cooling System Group	
	Hoses and Clamps .....	73-1 73
	Belts, Cooling Fan.....	74-1 74
	Assembly, Cooling Fan .....	75-1 75
	Heater, Engine Block .....	76-1 76
	Radiator, Cooling .....	77-1 77
Group 16	Air Compressor Group	
	Belts, Air Compressor .....	78-1 78
	Air Compressor Assembly .....	79-1 79
	Air Cleaner Intake .....	80-1 80
	Air Breather.....	81-1 81
	Valve, Intake and Exhaust and Unloader.....	82-1 82
	Valve Assembly, Low Pressure .....	83-1 83
	Valve, High Pressure Discharge.....	84-1 84
	Valve, High Pressure Suction Unloader.....	85-1 85
	Valve, Safety .....	86-1 86
	Pulley and Suction Manifold.....	87-1 87
	Intercooler.....	88-1 88
	Cylinder Head, Low Pressure .....	89-1 89
	Cylinder Head, High Pressure .....	90-1 90
	Pistons, Connecting Rods and Bearing, Low Pressure.....	91-1 91
	Pistons, Connecting Rods and Bearing , High Pressure.....	92-1 92
	Crankshaft and Oil Pump .....	93-1 93
	Block, Crankcase, Compressor .....	94-1 94
Group 17	Air Compressor Governor Group	
	Air Compressor Governor Assembly .....	95-1 95

	Page	Illust/ Figure
Group 18 Diesel Engine Group		
Engine, Diesel.....	96-1	96
Engine Support, Front .....	97-1	97
Engine Lifting Eye.....	98-1	98
Manifold, Exhaust .....	99-1	99
Thermostat, Housing .....	100-1	100
Manifold, Water .....	101-1	101
Water Filter Hoses and Clamps.....	102-1	102
Air Cleaner Assembly.....	103-1	103
Turbo Charger Assembly.....	104-1	104
Air Crossover .....	105-1	105
Filter, Fuel.....	106-1	106
Pump and Damper, Fuel .....	107-1	107
Control Solenoids, Fuel.....	108-1	108
Injector, Fuel.....	109-1	109
Valve, Engine Shutdown .....	110-1	110
Filter, Oil.....	111-1	111
Cooler, Oil.....	112-1	112
Pump Assembly, Oil.....	113-1	113
Manifold, Intake .....	114-1	114
Aftercooler .....	115-1	115
Bell Housing .....	116-1	116
Fan Hub and Drive.....	117-1	117
Pump and Idler, Water.....	118-1	118
Accessory Drive Assembly.....	119-1	119
Cover, Gear Case .....	120-1	120
Rocker Lever Covers and Crankcase Breather.....	121-1	121
Rocker Lever Housing Assembly.....	122-1	122
Push Rods and Cam Followers .....	123-1	123
Cylinder Head Assembly.....	124-1	124
Oil Pan.....	125-1	125
Pistons and Connecting Rods.....	126-1	126
Camshaft .....	127-1	127
Crankshaft .....	128-1	128
Cylinder Block, Engine.....	129-1	129
Group 19 Air Brake System Group		
Handbrake .....	130-1	130
Valve, Automatic Brake.....	131-1	131
Valve, Independent .....	132-1	132
Valve, 6NFR Distributing.....	133-1	133
Valve, No 8 Vent .....	134-1	134
Valve, A-1 Charging Cutoff Pilot .....	135-1	135
Valve, H-5 Relay Air .....	136-1	136
Valve, Emergency Brake .....	137-1	137
Valve, Strainer and Check.....	138-1	138
Valve No 24, Double Check .....	139-1	139
Cut-Out Cock and Strainer .....	140-1	140

	Page	Illust/ Figure
Group 19		
Valve, Check, Rubber Seated .....	141-1	141
Cut-out Cock, Ball .....	142-1	142
Cylinder, Brake .....	143-1	143
Reservoir, Main Air .....	144-1	144
Reservoir, Aux .....	145-1	145
Valve, Main Air Reservoir Safety .....	146-1	146
Filter, Centrifugal Air, Primary .....	147-1	147
Filter, Centrifugal Air, Secondary .....	148-1	148
Switches, Air Pressure Control .....	149-1	149
Hoses and Fittings, Trainline Air.....	150-1	150
Group 20		
Truck and Underframe Group		
Truck Assembly .....	151-1	151
Foundation Brakeshoe and Breakhead.....	152-1	152
Group 21		
Traction Motor Group		
Traction Motor.....	153-1	153
Brushes, Carbon, and Holder .....	154-1	154
Group 22		
Draft Gear Group		
Couples.....	155-1	155
Control Stand Piping .....	156-1	156
Cab Air Piping.....	157-1	157
Electrical Conduit.....	158-1	158
Brake and Bell Piping.....	159-1	159
Brake Cylinder .....	160-1	160
Actuating and Independent Piping.....	161-1	161
Brake Compartment Piping .....	162-1	162
Main Air Piping.....	163-1	163
Section III		
Special Tools List (Not Applicable)		

## SECTION I

### INTRODUCTION

#### 1. Scope.

This RPSTL lists and authorizes spares and repair parts, special tools, special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of unit, direct support, and general support maintenance of the 80 Ton Diesel-Electric Locomotive

#### 2. General.

In addition to Section I, Introduction, this Repair Parts and Special Tools List contains Section II, Repair Parts List is a list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance The list also Includes parts which must be removed for replacement of the authorized parts Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts In each group listed In ascending figure and Item number sequence Bulk materials are listed In name sequence Repair parts kits are listed separately in their own functional group within Section II Repair parts for repairable special tools are also listed In this section Items listed are shown on the associated Illustration(s)/figure(s).

#### 3. Explanation of Columns (Section II).

- a. Item No (Column (1)). Indicates the number used to Identify Items called out In the Illustration.
- b. FSCM (Column (2)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the Item.
- c. Part Number (Column (3)). Indicates the primary number used by the manufacturer (Individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the Item by means of Its engineering drawings, specifications, standards, and Inspection requirements to identify an item or range of Items.

#### NOTE

When you use a NSN to requisition an Item, the item you receive may have a different part number from the part ordered.

- d. Description and Usable on Code (UOC) (Column (4)). This column includes the following information
  - (1) The Federal Item name and, when required, a minimum description to Identify the Item.
  - (2) The physical security classification of the Item Is indicated by the parenthetical entry (Insert applicable physical security classification abbreviation, e g , Phy Sec C1 (C) - Confidential, Phy Sec C1 (S) - Secret, Phy Sec C1 (T) - Top Secret).
  - (3) Items that are Included In kits and sets are listed below the name of the kit or set.
  - (4) Spare/repair parts that make up an assembled Item are listed Immediately following the assembled item line entry.
  - (5) Part numbers for bulk materials are referenced In this column In the line Item entry for the Item to be manufactured/fabricated.



- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).
- (7) The usable on code, when applicable.
- (8) The statement "End of Figure" appears just below the last item description in Column 4 for a given figure in Section II.

e. QTY (Column (5)). The Qty (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in the column in lieu of a quantity indicates that the quantity is variable and may vary from application to application.

**4. How to Locate Repair Parts.**

When National Stock Number or Part Number is Not Known,

(1) Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Identify the items on the figure and note the item number.

(4) Refer to the Repair Parts List for the figure to find the part number.

(5) After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

**5. Abbreviations.**

<u>Abbreviations</u>	<u>Explanation</u>	<u>Abbreviations</u>	<u>Explanation</u>
AC	Alternating Current	IN	Inch
ASSY	Assembly	LS	Left Side
CNTFGL	Centrifugal	L	Long
CB	Circuit Breaker	PWR	Power
COND	Condenser	PRESS	Pressure
CONN	Connection	RCPT	Receptacle
CONN	Connector	RS	Right Side
CSKH	Countersunk Head	SW	Switch
ELEC	Electrical	W	Wide
HTR	Heater	W/	With (Comb Form)
HP	High Pressure		

**6. Manufacturer's Code.**

The following is a listing of vendor codes with names and addresses of suppliers, vendor parts are listed in this publication. The codes are arranged in numerical order, followed by an alphabetical listing of the same.

**NUMERIC SEQUENCE**

01276	Aero Quip Corp Industrial Div.	1225 West Main Street Van Wert, OH 45891
01857	Trams-Lite, Inc.	120 Wampus Lane, P O Box 70 Milford, CT 06460
01862	ABED Corp	Six Landmark Square, P O Box 10268 Stamford, CT 06904
06865	Thomas and Betts	Hwy 218 South, Iowa City, IA 52240
06960	Graybar Electric Co., Inc.	1375 West 47th Ave. , P O Box 5897 Terminal Annex, Denver, CO 80217
07099	Moxness Products, Inc.	1914 Indiana Street, Racine, WI 53405
07858	Arrow Hart Division of Cooper Industries	103 Hawthorn Street, Hartford, CT 06101
08108	Lamp Industry	(For use with industry designations for lamps, neither a manufacturer or supplier of items )
08800	General Electric Co.	1350 S 2nd Street, Coshocton, OH 43812 Electro Materials Business Department
09641	Electri-Flex Company	222 West Central Ave. , P O Box 7226 Roselle, IL 60172
09869	Ameron Industrial Coating Div.	Wichita, KS
10001	Naval Ordnance System Command	Washington, D.C. 20362
14448	Hammond Valve Corporation	1844 Summer Street, Hammond, IN 46320
15235	Crouse - Hinds, CO	Wolf and 7th N St., P O Box 4999 Syracuse, New York
15434	Cummins Engine Co., Defense Products	407161000 Fifth Street, P O Box 3005 Columbus, IN 47201
17611	Air-Loc Products	5 Fisher Street, P O Box 269 Division of Clark-Cutter Franklin, MA 02038 McDerrmott Co.

**NUMERIC SEQUENCE (cont)**

18170	Dollinger Corp	1 Town Line Circle, P O Box 23200 Rochester, NY 14692
19278	Detroit Switch, Inc.	1025-33 Beaver Ave. Pittsburgh, PA 15233
2K654	Gardner-Denver	1800 Gardner Expressway Industrial Machinery Div. Quincy, IL 62301
20796	Dayco Corp Rubber Products Div.	Battlefield Road and Senic Drive P O Box 3258  Springfield, MO 65808 3135 Easton Turnpike Fairfield, CT 06431
24446	General Electric Co.	
30187	Graham White Sales Group	1209 Colorado Street, Salem, VA 24153
30327	Impenal Clevite Co.	6300 West Howard Street Fluid Components Div. Chicago, IL 60648
34439	Power Parts Co.	1860 North Wilmont Ave. , Chicago, IL 60647
35321	Sylvania Indoor Lighting Fixture Division of GTE Sylvania Canada LTD	8750 Corte De Lisse Road Montreal Quebec Canada
39428	McMaster-Carr Supply Co.	P O Box 4355, Chicago, IL 60680
42323	Nathan Manufacturing Div. Wegner Machinery Corp	35-41 11 th Street Long Island City, NY 11106
46522	White Consolidated Industries Inc. Hupp Mobile Products Div.	1135 Ivanhole Road Cleveland, OH 44110
49367	Pyle-National Co.	1334 Kostner Avenue, Chicago, IL 60651
49671	RCA Corp	30 Rockefeller Plaza, New York, NY 10020
50024	Alco Power, Inc.	100 Orchard Street, Auburn, NY 13201
51225	Department of the Army	Tooele Army Depot General Rall Shops Hill AFB, Bldg 1701 Ogden, Utah
52676	SKF Industries, Inc.	1100 First Avenue King of Prussia, PA 19406

NUMERIC SEQUENCE (cont)

53421	Tyton Corp.	7930 N Faulkner Road, P.O. Box 23055 Milwaukee, WI 53223-3496
55827	DME Corp, Tubing Specialist	111 SW 33rd St. Ft. Lauderdale, FL 33315
56433	United Laboratories, Inc.	155 South Route 53, Addison, IL 60101
57658	Buckeye Fire Equipment Co.	102 Industrial Drive Kings Mountain, NC 28086
60038	Timken Company	1835 Dueber Ave., SW, Canton, OH 44706
62679	Van Keuren Co.	176 Waltham Street, Watertown, MA 02172
65072	Industrial Heat Exchanger MFG Corp.	P O Box 1056, Jackson, TN 38301
72271	Eutectic Corp	40-40 172nd Street, Flushing , N Y 11358
72423	Stanley Flagg and Co.	West High Street, Stowe, PA 19464
72582	General Motors Corp Detroit Diesel Allison Div.	13400 West Outer Drive Detroit, MI 48228
72915	Electro-Motive Div. General Motors Corp.	9301 West 55th Street La Grange, IL 60525
74096	Comspace Corp. Munston Electronics Div.	350 Great Neck Road Farmingdale, Long Island, NY 11735
74400	Hobbs Div., Stewart-Warner Corp Springfield, IL 62705	Vale Blvd. & Ash Street
75037	Insl-X Products Corp	115 Woodworth Ave., Yonkers, NY 10702
76254	Teledyne Inc. Co.	850 Grantly Road, York, PA 17405
76622	Ellcon National, Inc.	30 King Road, Totowa Borough, NJ 07512
76700	Nelson Muffler Division of Nelson Industries	Highway 51 West, P O. Box 428 Stoughton, WI 53589
78657	Surrete Storage Battery Co. Salem, MA 01970	16 Front Street, P O Box 3027
79500	Westinghouse Electric Corp Corporate Standards 7 Development	1310 Bevlah Road, Pittsburgh, PA 15235

**NUMERIC SEQUENCE (cont)**

80535	Campbell Chain Div.	3990 East Market Street, York, PA 17402 McGraw-Edlslon Co.
80971	General Electric Company	2901 East Lake Road, Erie, PA 16531 Locomotive Products Div.
81343	Society of Automotive Engineers	400 Commonwealth Drive Warrendale, PA 15096
81348	Federal Specifications	General Services Administration Washington, D C
81349	Military Specifications, Defense Standardization Manual 4120 3-M	
82484	Sprague Devices, Inc.	500 Horon, P O Box 389 Michigan City, IN 46360
82772	Westinghouse Air Brake Co.	P O Box 67, Wilmerding, PA 15148
82879	ITT, Royal Electnc Div.	95 Grand Ave. Pawtucket, Rhode Island 02862
83905	American Biltrite, Inc. Tape Products Div.	44 Hepworth Place, P O Box 178 Garfield, NJ 07026
87187	Borden, Inc. /Chemical Div. Krylon Dept.	630 East Washington, P O Box 390 Norristown, PA 19404
89110	Amp, Inc. , Capitorn Div.	1595 S Mt. Joy Street Elizabethtown, PA 17022
90414	Smooth-On Inc.	1000 Valley Road, Gillette, NJ 07933
90615	Baldwin-Llma-Hamllton Corp Industrial Equipment Div.	Media, PA
91816	BrunswickCorporation Circle Seal Controls Technetics Div.	1111 N Brookhurst St., P O Box 3666 Anaheim, CA 92803
95408	Kim Hot Start Company	917 West Broadway, P O Box 42 Spokane, WA 92210
95535	Marion Div., Tecumseh Products Co.	333 Joseph, Marion, OH 43302
95857	Association of American Railroads	59 East Van Buren, Chicago, IL 60605
96906	Military Standards	

ALPHABETICAL SEQUENCE

01862	ABED Corp	Six Landmark Square, P O Box 10268 Stamford, CT 06904
01276	Aero Quip Corp Industrial Div.	1225 West Main Street Van Wert, OH 45891
17611	Air-Loc Products Division of Clark-Cutter	5 Fisher Street, P O Box 269 Franklin, MA 02038 McDerrmott Co.
50024	Alco Power, Inc.	100 Orchard Street, Auburn, NY 13201
83905	American Biltnte, Inc. Tape Products Div.	44 Hepworth Place, P O Box 178 Garfield, NJ 07026
09869	Ameron Industrial Coating Div.	Witchita, KS
89110	Amp, Inc. , Capitor Div. Elizabethtown, PA 17022	1595 S Mt. Joy Street
07858	Arrow Hart Division of Cooper Industries	103 Hawthorn Street, Hartford, CT 06101
95857	Association of American Railroads	59 East Van Buren, Chicago, IL 60605
90615	Baldwin-Lima-Hamllton Corp Industrial Equipment Div.	Media, PA
87187	Borden, Inc. /Chemical Div. Krylon Dept.	630 East Washington, P O Box 390 Nornstown, PA 19404
91816	Brunswick Corporation Circle Seal Controls Technetics Div.	1111 N Brookhurst ST, P.O. Box 3666 Anaheim, CA 92803
57658	Buckeye Fire Equipment Co. Kings Mountain, NC 28086	102 Industrial Drive
80535	Campbell Chain Div. McGraw-Edision Co.	3990 East Market Street, York, PA 17402
74096	Comspace Corp Munston Electronics Div.	350 Great Neck Road Farmingdale, Long Island, NY 11735
15235	Crouse - Hinds, CO	Wolf and 7th N St., P O Box 4999 Syracuse, New York
15434	Cummins Engine Co. , Defense Products	407161000 Fifth Street, P O Box 3005 Columbus, IN 47201

**ALPHABETICAL SEQUENCE (cont)**

20796	Dayco Corp Rubber Products Div.	Battlefield Road and Senic Drive P O Box 3258 Springfield, MO 65808
51225	Department of the Army	Tooele Army Depot General Rail Shops Hill AFB, Bldg. 1701 Ogden, Utah
19278	Detroit Switch, Inc.	1025-33 Beaver Ave. Pittsburgh, PA 15233
55827	DME Corp, Tubing Specialist	111 SW 33rd St. Ft Lauderdale, FL 33315
18170	Dollinger Corp.	1 Town Line Circle, P O Box 23200 Rochester, NY 14692
09641	Electn-Flex Company	222 West Central Ave. , P O Box 7226 Roselle, IL 60172
72915	Electro-Motive Div. General Motors Corp	9301 West 55th Street La Grange, IL 60525
72271	Eutectic Corp.	40-40 172nd Street, Flushing, N Y 11358
76622	Ellcon National, Inc.	30 King Road, Totowa Borough, NJ 07512
81348	Federal Specifications	General Services Administration Washington, D C
24446	General Electric Co.	3135 Easton Turnpike Fairfield, CT 06431
08800	General Electric Co.	1350 S 2nd Street, Coshocton, OH 43812 Electro Materials Business Department
80971	General Electric Company	2901 East Lake Road, Erie, PA 16531 Locomotive Products Div.
72582	General Motors Corp Detroit Diesel Allison Div.	13400 West Outer Drive Detroit, MI 48228
30187	Graham White Sales Group	1209 Colorado Street, Salem, VA 24153
06960	Graybar Electric Co., Inc.	1375 West 47th Ave., P O Box 5897 Terminal Annex, Denver, CO 80217

**ALPHABETICAL SEQUENCE (cont)**

14448	Hammond Valve Corporation	1844 Summer Street, Hammond, IN 46320
74400	Hobbs Div., Stewart-Warner Corp	Vale Blvd. & Ash Street Springfield, IL 62705
30327	Imperial Clevite Co. Fluid Components Div.	6300 West Howard Street Chicago, IL 60648
65072	Industrial Heat Exchanger MFG Corp	P O Box 1056, Jackson, TN 38301
75037	Insl-X Products Corp	115 Woodworth Ave. , Yonkers, NY 10702
82879	ITT, Royal Electric Div.	95 Grand Ave. Pawtucket, Rhode Island 02862
95408	Kim Hot Start Company	917 West Broadway, P O Box 42 Spokane, WA 92210
08108	Lamp Industry	(For use with Industry designations for lamps, neither a manufacturer or supplier of items )
95535	Marion Div., Tecumseh Products Co.	333 Joseph, Marion, OH 43302
81349	Military Specifications, Defense Standardization Manual 4120 3-M	
96906	Military Standards	
39428	McMaster-Carr Supply Co.	P O Box 4355, Chicago, IL 60680
07099	Moxness Products, Inc.	1914 Indiana Street, Racine, WI 53405
42323	Nathan Manufacturing Div. Wegner Machinery Corp	35-41 11 th Street Long Island City, NY 11106
10001	Naval Ordinance System Command	Washington, D C 20362
76700	Nelson Muffler Division of Nelson Industries	Highway 51 West, P O Box 428 Stoughton, WI 53589
34439	Power Parts Co.	1860 NorthWilmont Ave., Chicago, IL 60647
49367	Pyle-National Co.	1334 Kostner Avenue, Chicago, IL 60651
49671	RCA Corp	30 Rockefeller Plaza, New York, NY 10020
52676	SKF Industries, Inc. King of Prussia, PA 19406	1100 First Avenue



**ALPHABETICAL SEQUENCE (cont)**

90414	Smooth-On Inc.	1000 Valley Road, Gillette, NJ 07933
81343	Society of Automotive Engineers	400 Commonwealth Drive Warrendale, PA 15096
82484	Sprague Devices, Inc.	500 Horon, P O Box 389 Michigan City, IN 46360
72423	Stanley Flagg and Co.	West High Street, Stowe, PA 19464
78657	Surrete Storage Battery Co.	16 Front Street, P O Box 3027 Salem, MA 01970
35321	Sylvania Indoor Lighting Fixture Division of GTE Sylvania Canada LTD	8750 Corte De Lisse Road Montreal Quebec Canada
76254	Teledyne Inc. Co.	850 Grantly Road, York, PA 17405
06865	Thomas and Bents	Hwy 218 South, Iowa City, IA 52240
60038	Timken Company	1835 Dueber Ave. , SW, Canton, OH 44706
01857	Trams-Lite, Inc.	120 Wampus Lane, P O Box 70 Milford, CT 06460
53421	Tyton Corp	7930 N Faulkner Road, P O Box 23055 Milwaukee, WI 53223-3496
56433	United Laboratories, Inc.	155 South Route 53, Addison, IL 60101
82722	Westinghouse Air Brake Co.	P O Box 67, Wilmerding, PA 15148
79500	Westinghouse Electric Corp Corporate Standards 7 Development	1310 Bevlah Road, Pittsburgh, PA 15235
46522	White Consolidated Industries Inc. Hupp Mobile Products Div.	1135 Ivanhole Road Cleveland, OH 44110
62679	Van Keuren Co.	176 Waltham Street, Watertown, MA 02172

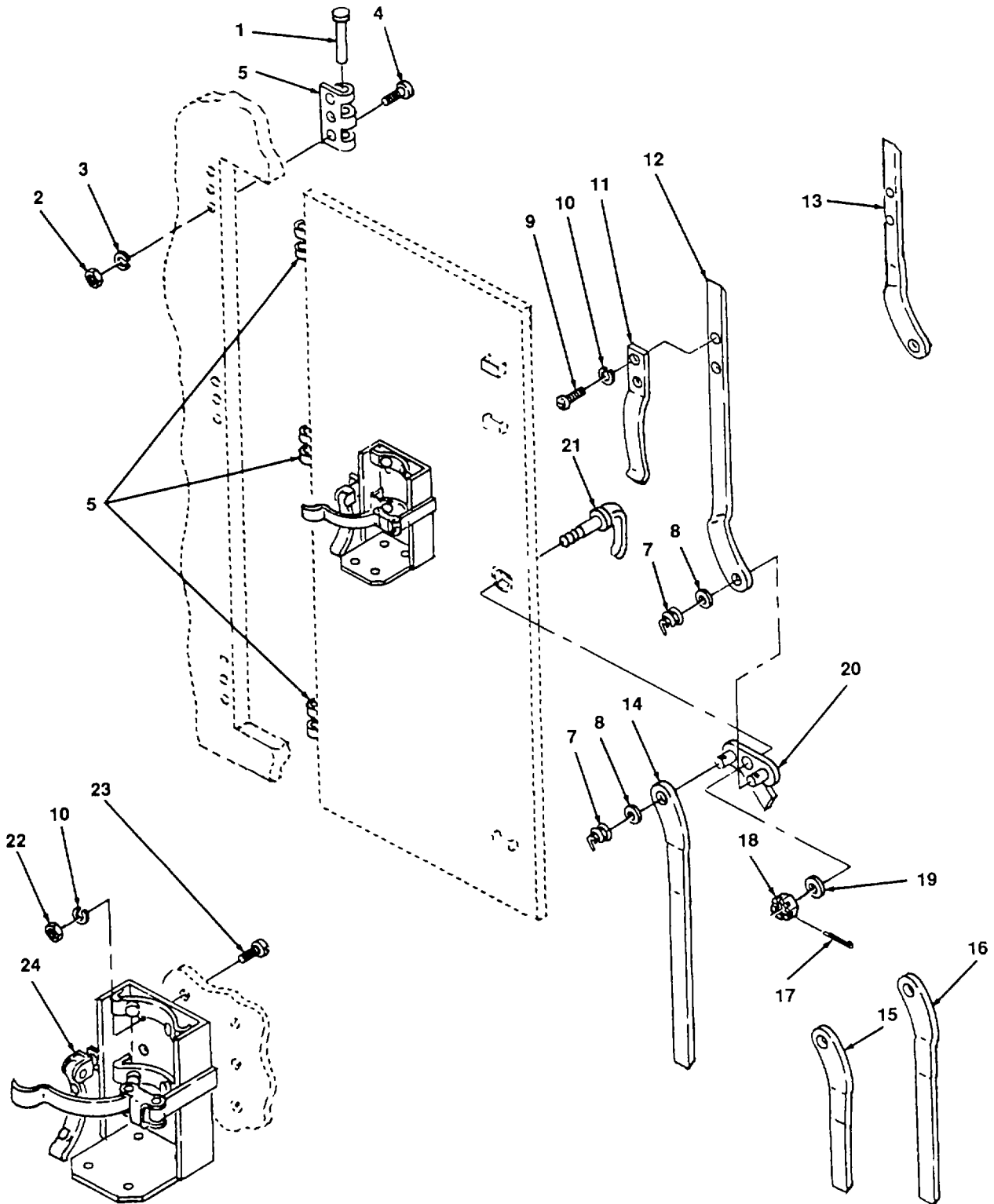
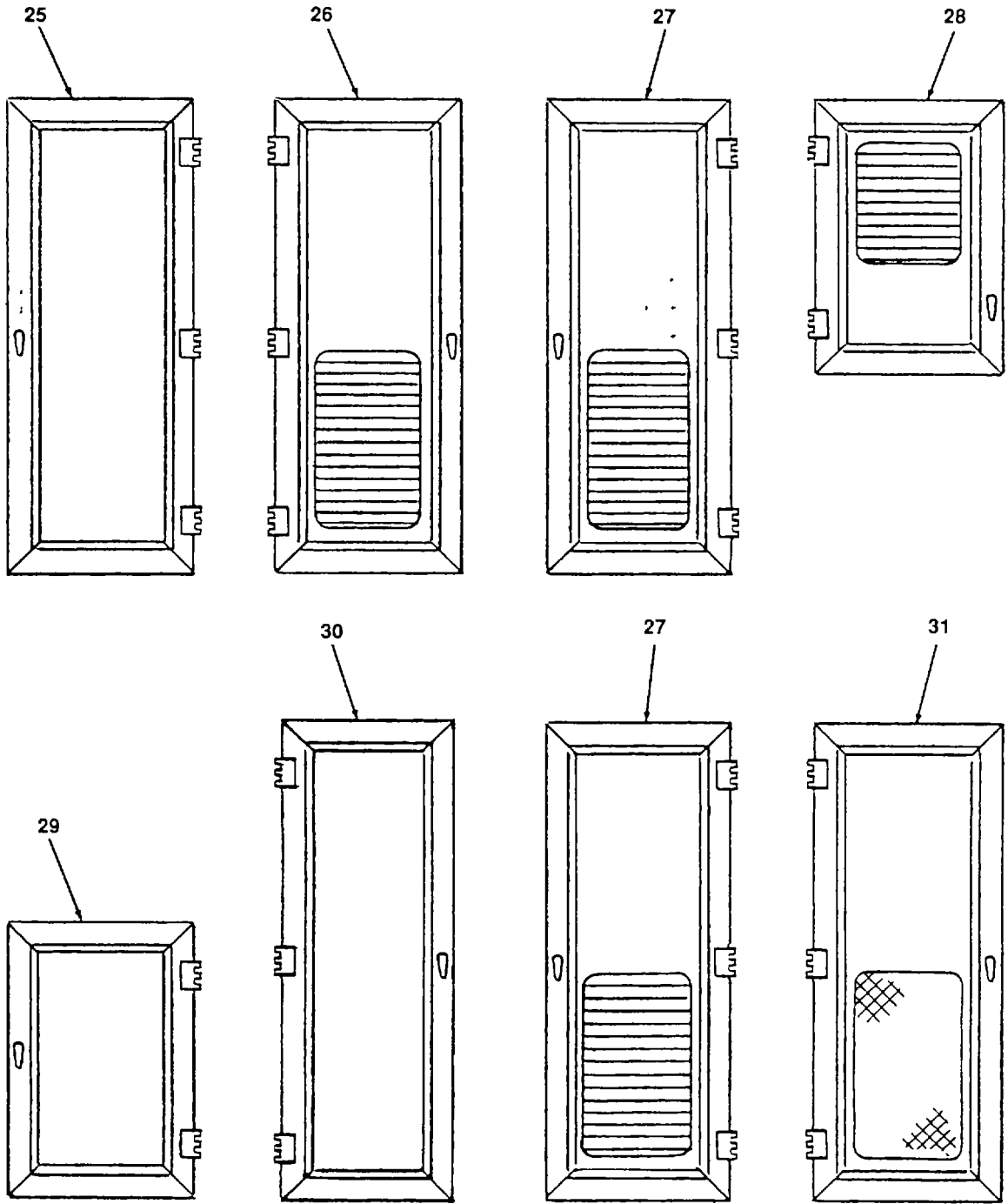


Figure 1. Engine Access Door (Sheet 1 of 2).



4834 001 2

Figure 1. Engine Access Door (Sheet 2 of 2).

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 01 BODY GROUP	
			FIG. 1 DOOR ENGINE HOOD	
1			PIN, HINGE (QTY 2 ON DOORS 28 AND 29)	3
2	96906	MS51967-06	NUT, HEX 5/16-18 UNC	9
3	96906	MS35338-45	WASHER, LOCK 5/16	9
4	96906	MS90725-44	SCREW, HEX 5/16-18 UNC, 3 IN LONG	9
5			HINGE (QTY 2 ON DOORS 28 AND 29)	3
6			HINGE, COMPRESSOR DOOR (WELDED)	2
7			SPRING	2
8	96906	MS27183-18	WASHER, FLAT 1/2 IN	2
9			SCREW, PAN HEAD 1/4 IN X 1/2 (NSN 5305-00-958-0609)	2
10	96906	MS35338-44	WASHER, LOCK 1/4 IN	8
11			BAR, LATCH, UPPER	1
12			BAR, LATCH, LOWER	1
13			BAR, LATCH, UPPER (DOOR 29 ONLY)	1
14			BAR, LATCH, LOWER (DOOR 28 ONLY)	1
15			BAR, LATCH, LOWER (DOOR 28 ONLY)	1
16			BAR, LATCH, LOWER (DOOR 29 ONLY)	1
17	96906		PIN, COTTER 3/32 X 1 IN (NSN 5315-00-816-1794)	1
18	96906		NUT, CASTLATED, 1/2 IN (NSN 5310-00-017-2941)	1
19	96906	MS27183-18	WASHER, FLAT, 1/2 IN	1
20			LEVER	1
21			HANDLE, DOOR	1
22	96906	MS51967-03	NUT, HEX, 1/4 IN	6
23	96906	MS90725-8	SCREW, HEX, 1/4 IN	6
24			BRACKET, FIRE EXTINGUISHER	1
25			DOOR, SOLID PANEL, HINGED RIGHT	2
26			DOOR, W/LOUVER PANEL, HINGED LEFT	2
27			DOOR, W/LOUVER PANEL, HINGED RIGHT	2
28			DOOR, SHORT, HINGED RIGHT	2
29			DOOR, COMPRESSION ACCESS	2
30			DOOR, NARROW, HINGED LEFT	2
31			DOOR, W/STRETCHED METAL SCREEN, HINGED LEFT	2
			END OF FIGURE	

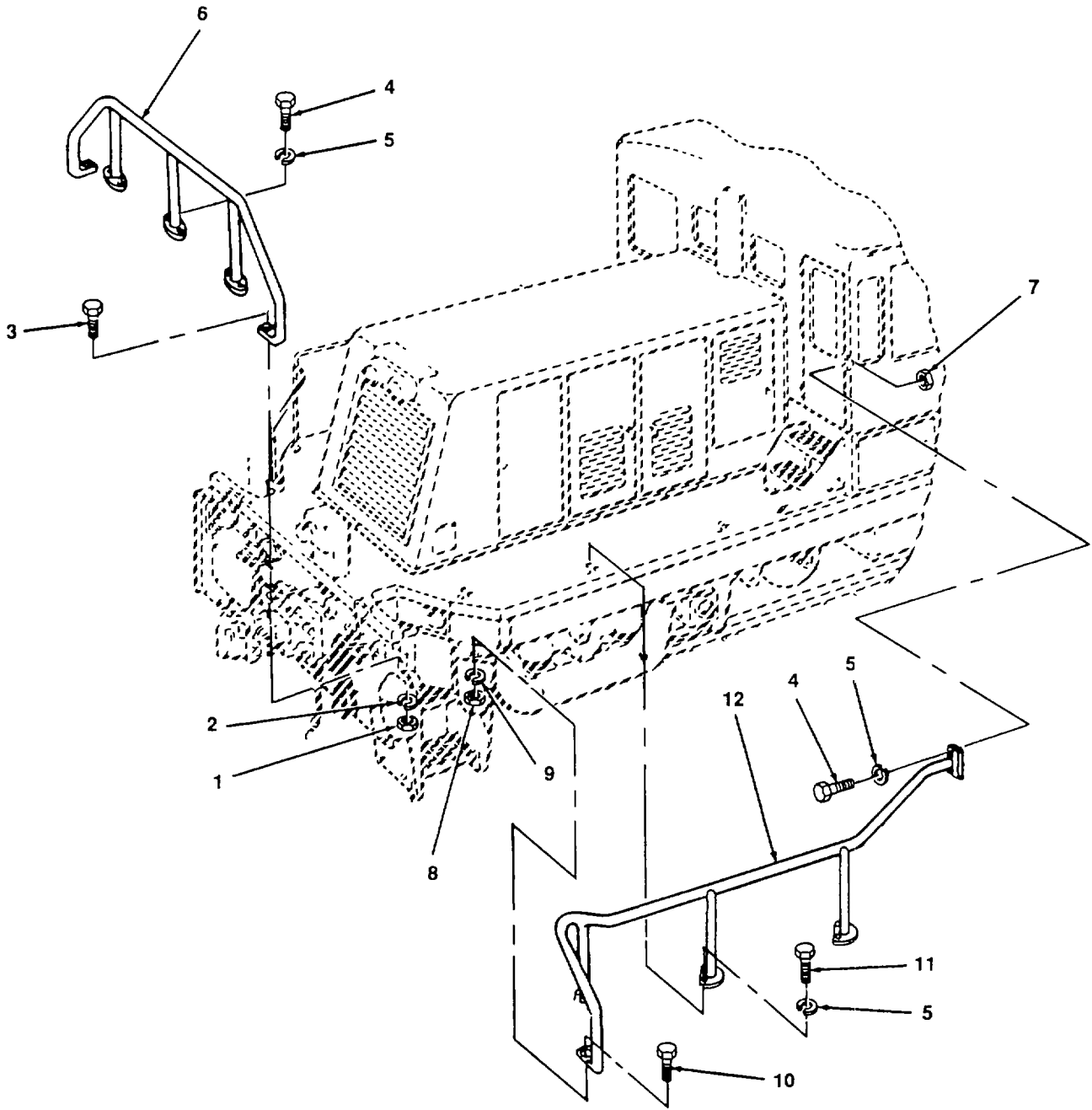


Figure 2. Handrails.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 01 BODY GROUP	
			FIG. 2 HANDRAILS	
1	96906	MS519681-24	NUT, HEX 3/4 - 10 UNC	4
2	96906	MS35338-51	WASHER, LOCK 3/4 IN	4
3	96906	MS90725-191	SCREW, HEX 3/4 IN X 3 IN (NSN 5305-00-947-4354)	4
4	96906	MS90725-158	SCREW, HEX 5/8 X 1 IN, NC	
			(NSN 5305-00-724-72130)	
5	96906	MS35338-50	WASHER, LOCK 5/8 IN	66
6				
			HANDRAIL, FRONT AND REAR	2
8	96906	MS51967-33	NUT, HEX 1/18 IN -7 UNC	4
9	96906	MS35338-55	WASHER, LOCK 1 1/8	4
10	96906	MS90725-103	SCREW, HEX 1 1/8 IN X 2 1/2 IN - 7 UNC	11
	96906	MS90725-252	SCREW, HEX, 5/8 X 1 3/4 UNC	36
12			HANDRAIL, LEFT FRONT/RIGHT REAR	2
12			HANDRAIL, RIGHT FRONT/LEFT REAR	2
			END OF FIGURE	

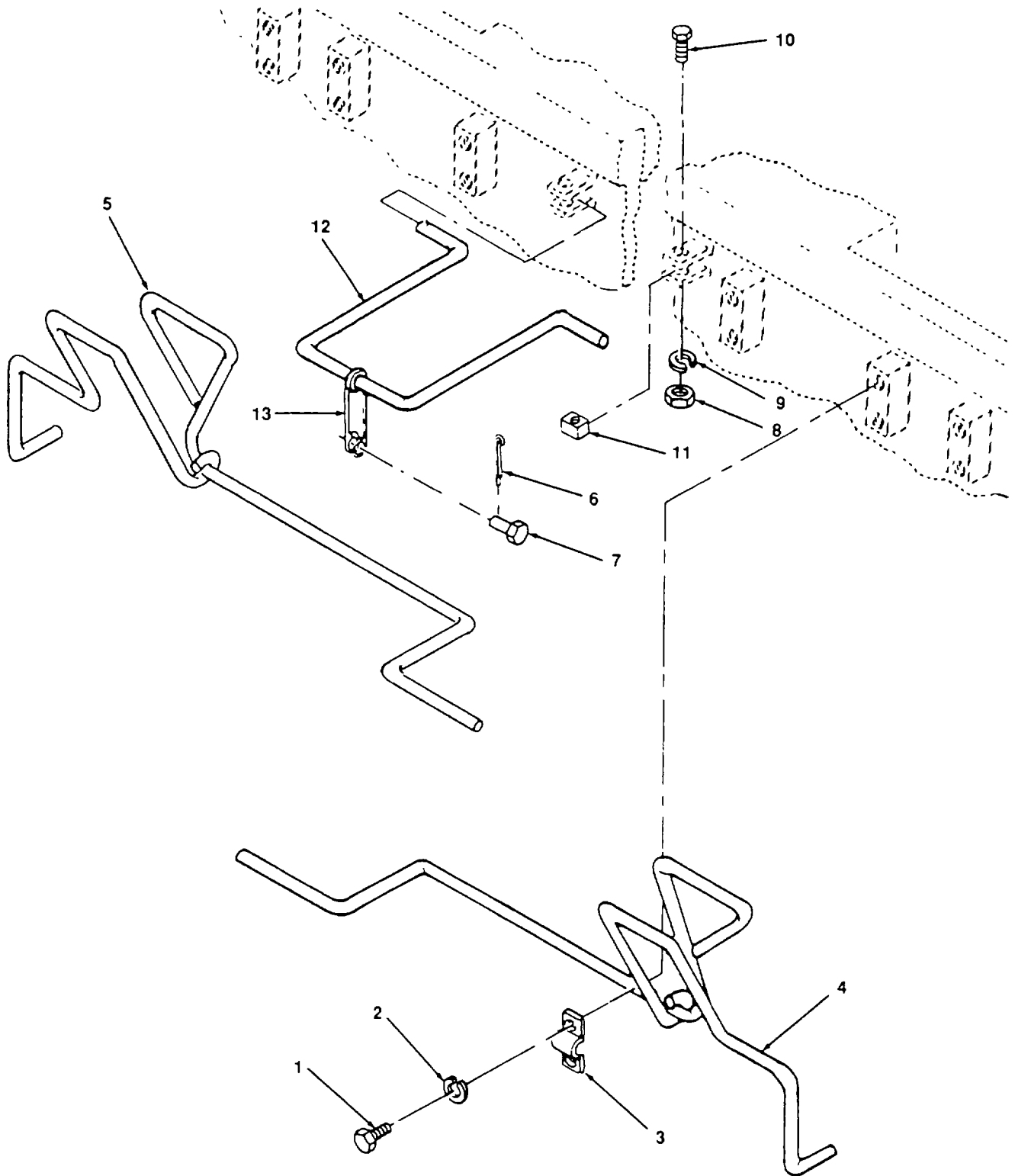
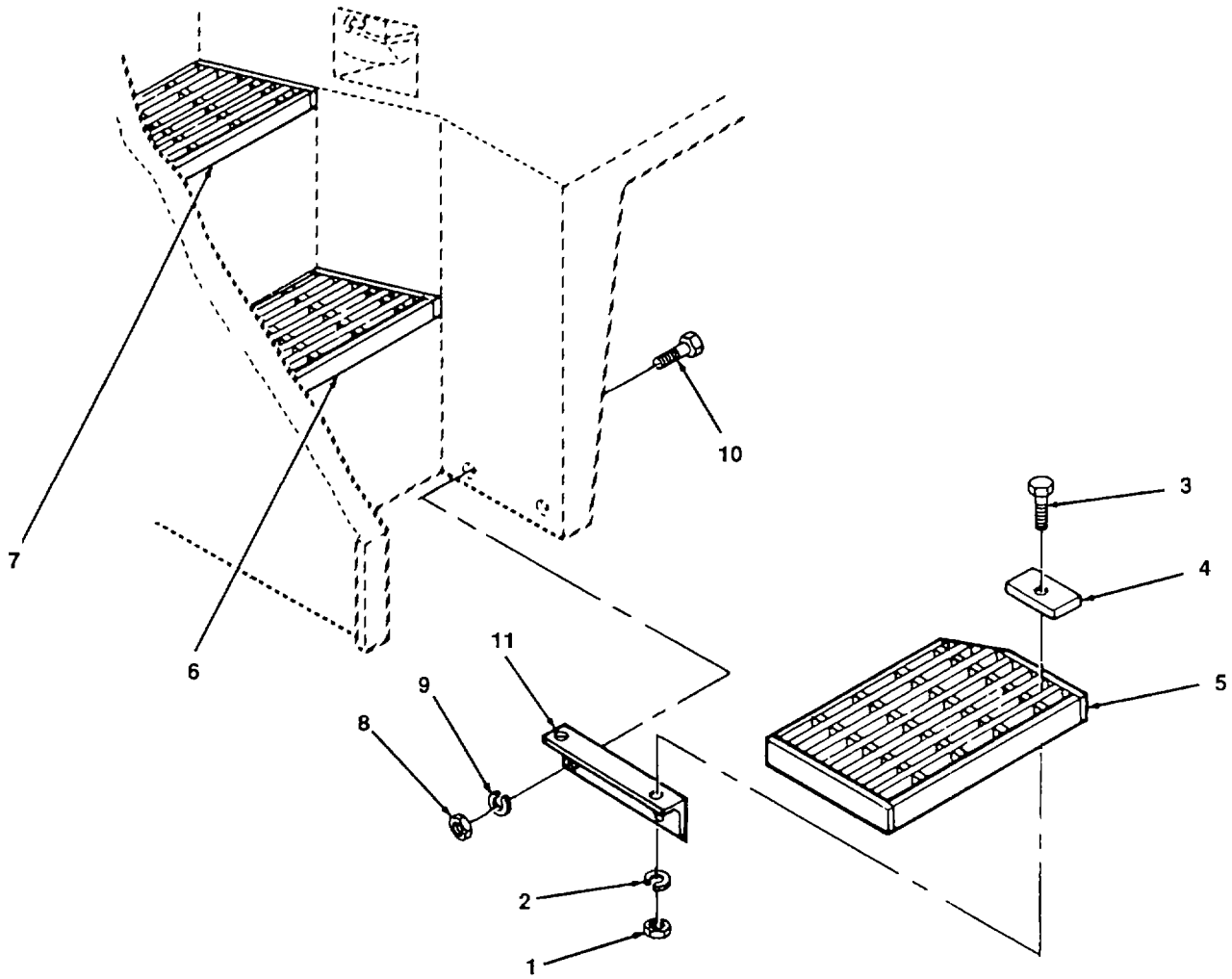


Figure 3. Cutter Levers.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 01 BODY GROUP	
			FIG 3 CUTTER LEVER	
1	96906	MS90725-158	SCREW, HEX HED , 5/8 X 1 IN.	12
2	96906	MS35338-50	WASHER, LOCK 5/8 IN	12
3			BRACKET	6
4	24446	172X32	LEVER W/STOPS LEFT HAND	1
5	24446	172X31	LEVER W/STOPS, RIGHT HAND	1
6	96906		COTTER KEY, 1/4 X 2 IN (NSN 5315-00-209-7273)	1
7			PIN - LIFTING BAR, 3/4 X 2 5/8	1
8	96906	MS51967-09	NUT, HEX, 3/8	2
9	96906	MS27183-14	WASHER, LOCK, 3/8 IN	2
10	96906	MS90725-67	SCREW, HEX, 3/8 X 2 1/2 IN 16-UNC	2
11			RETAINER BLOCK	2
12	24446	6741987GZ	LEVER, UNCOUPLING, CENTER	1
13			CLEVIS	2
			END OF FIGURE	





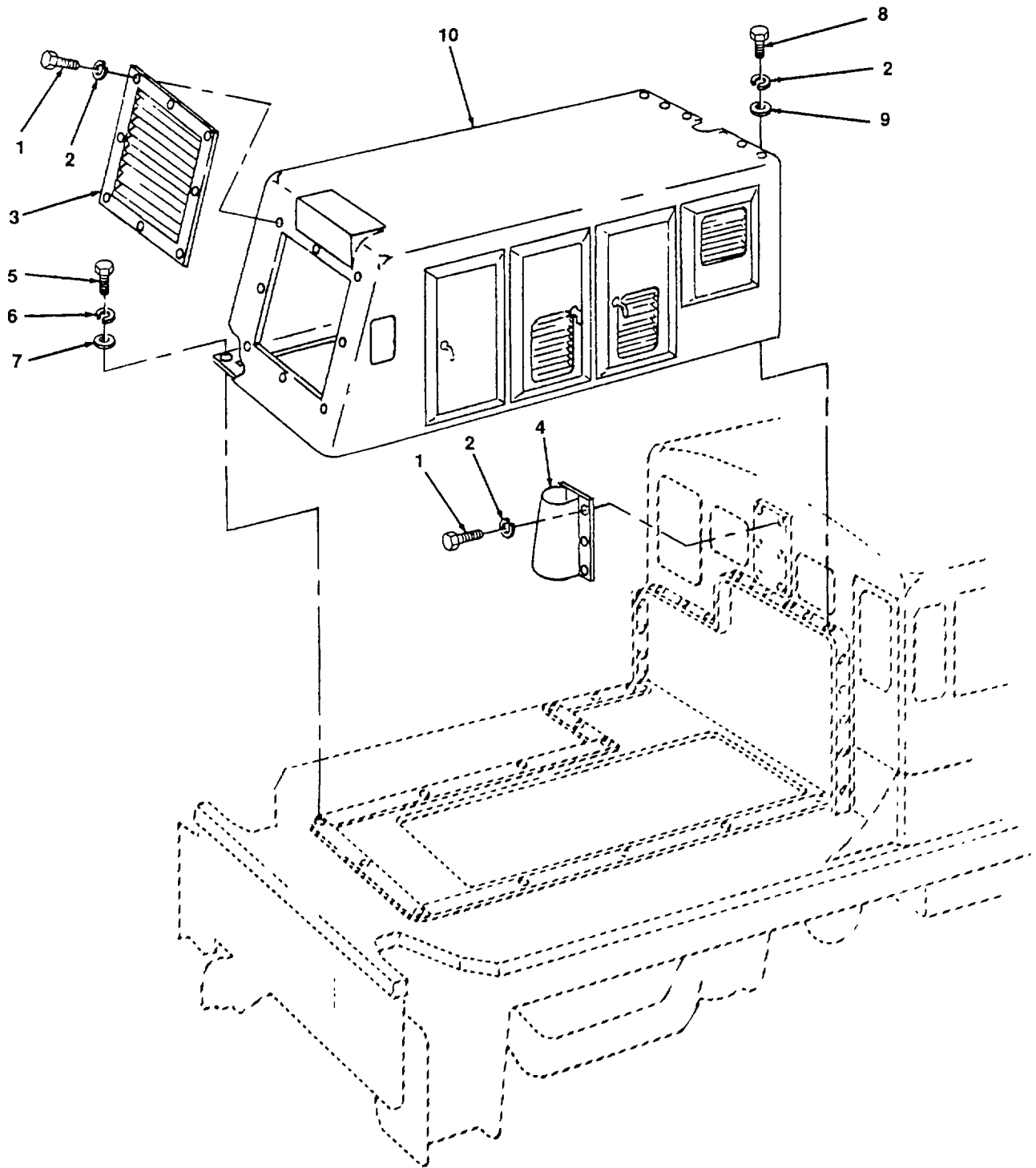
4834-004

Figure 4. Steps.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 01 BODY GROUP	
			FIG 4 STEPS	
1	96906	MS51967-09	NUT, HEX, 3/8 IN	12
2	96906	MS35336-46	WASHER, LOCK, 3/8 IN	12
3	96906	MS90725-66	SCREW, HEX, 3/8 X 2 (NSN 5305-00-638-8920)	12
4			RETAINER, STEP	12
5			STEP, BOTTOM	4
6			STEP, CENTER	4
7			STEP, TOP	4
8	96906	MS51967-15	NUT, 1/2 IN	12
9	96906	MS35338-48	WASHER, LOCK, 1/2 IN	12
10	96906	MS90725-113	SCREW, HEX, 1/2 X 1 1/2 IN (NSN 5305-00-071-2069) 12	
11			BRACKET, SUPPORT	6
			END OF FIGURE	



4834-005

Figure 5. Engine Hood Assembly.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 01 BODY GROUP	
			FIG. 5 ENGINE HOOD ASSEMBLY	
1	96906	MS90725-66	SCREW, HEX	18
2	96906	MS35338-46	WASHER, LOCK, 3/8 IN	31
3	51225	57-0255	LOUVER ASSY	1
4			EXHAUST STACK	1
5	96906	MS90725-109	SCREW, HEX, 1/2 IN X 1 IN	10
6	96906	MS35338-48	WASHER, LOCK 1/2 IN	10
7	96906	MS27183-18	WASHER, FLAT 1/2 IN	10
8	96906	MS90725-64	SCREW, HEX 3/8 X 1 1/2 IN (NSN 5305-00-269-3214)	21
9	96906		SPACER, 3/8 X 3/16 IN THICK	21
10			COWLING	2
			END OF FIGURE	

1  
2 THRU 4

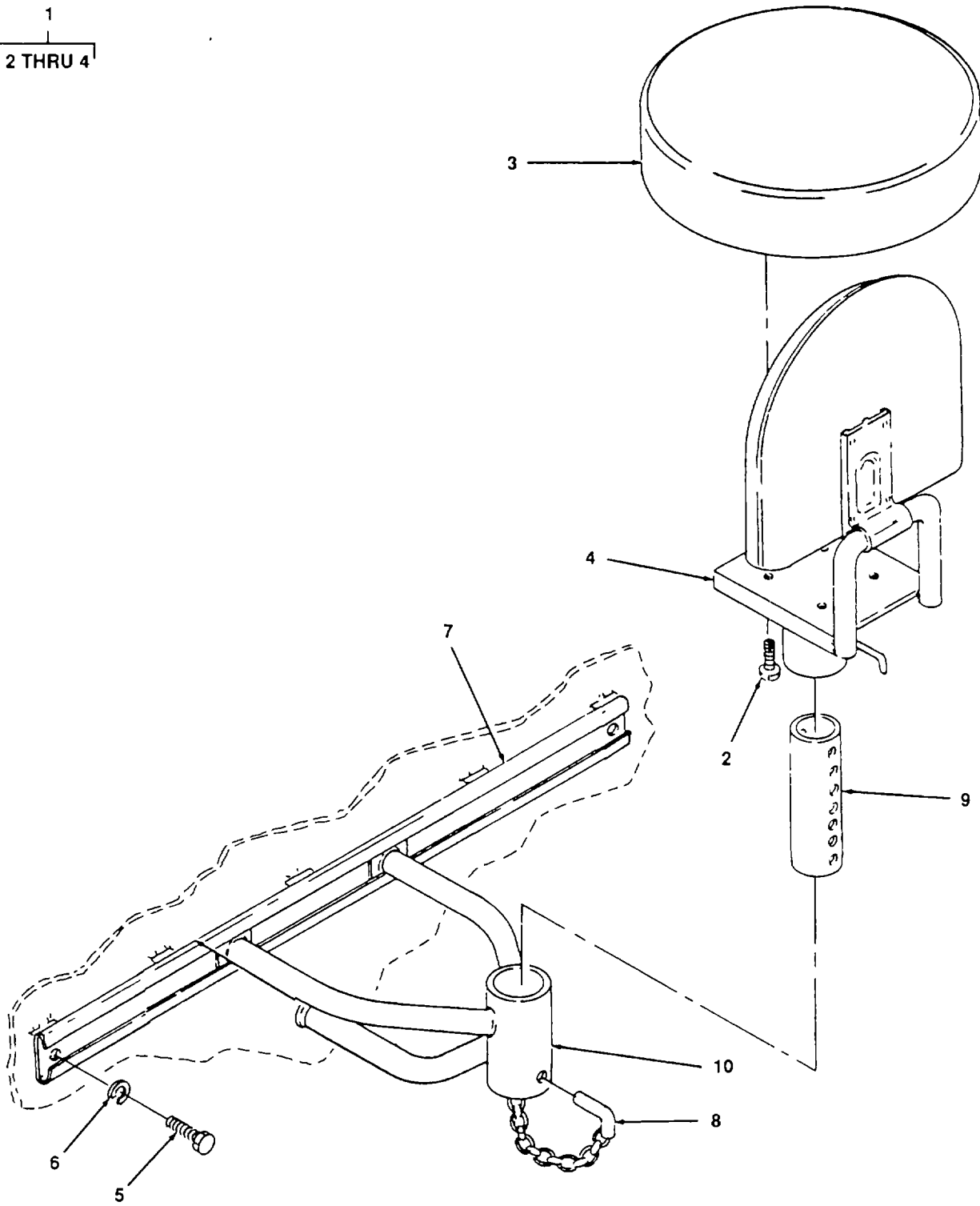
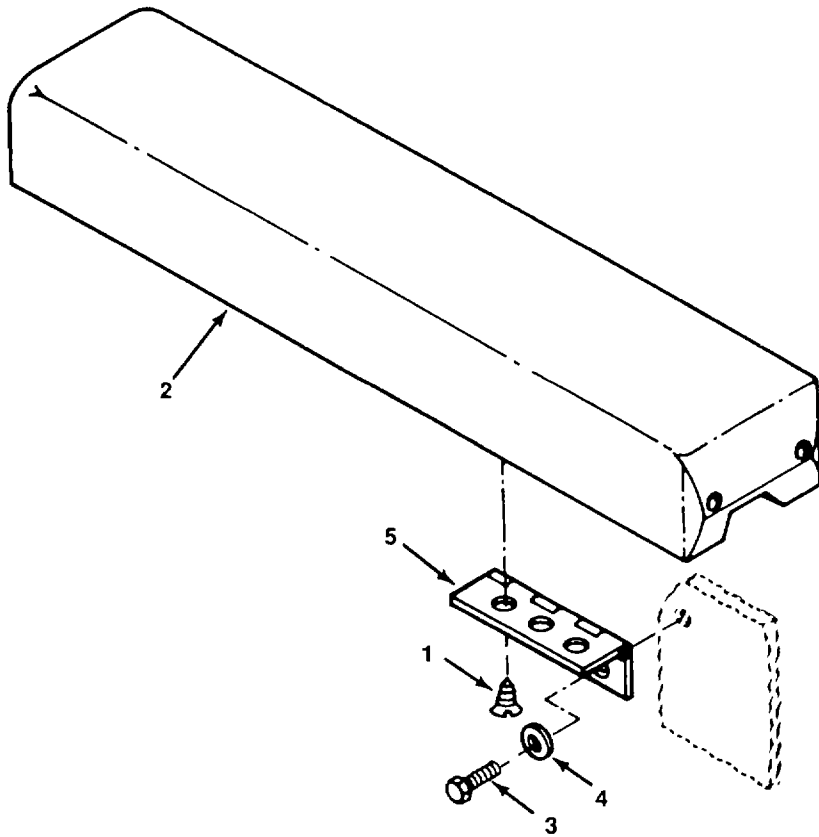


Figure 6. Seat and Mounting Bracket.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG 6 SEAT AND BRACKET	
1	72915	9087100	SEAT ASSEMBLY	1
2	96906		SCREW	4
3	72915		SEAT W/BRACKET	1
4	72915		BASE, SEAT	1
5	96906	MS90725-55	SCREW, HEX 3/8 X 1/2 (NSN 5305-00-269-3206)	2
6	96906	MS35338-46	WASHER, LOCK 3/8	2
7	72915		TRACK ASSEMBLY, SEAT	1
8	72915		PIN W/CHAIN	1
9	72915		TUBE, ADJUSTING	1
10	72915	8346783	BRACKET, SUPPORT	1
			END OF FIGURE	

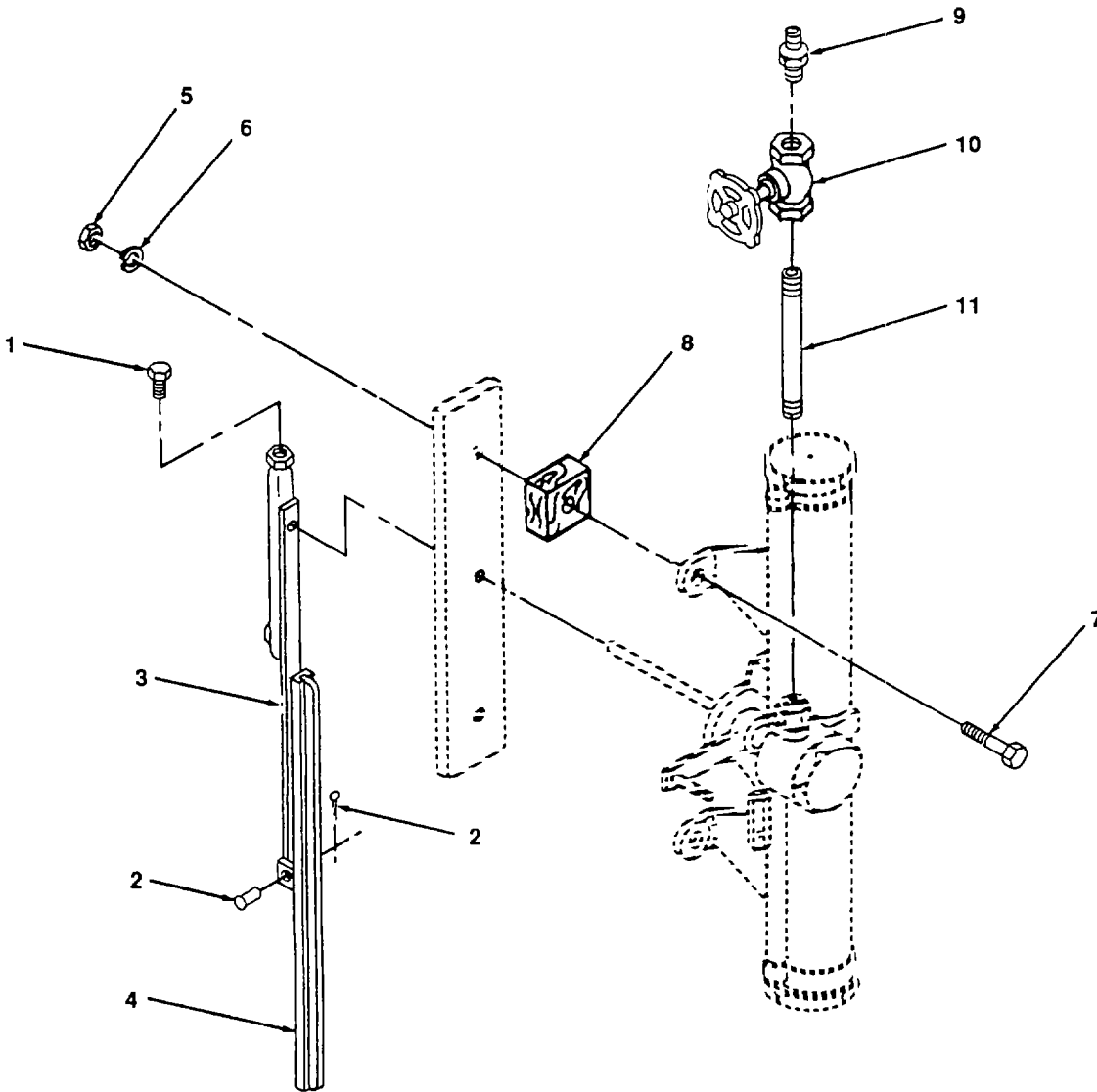


4834 007

Figure 7. Arm Rest.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1	96906		GROUP 02 CAB GROUP	
			FIG 7 ARMREST	
2	96906	24-2-343	SCREW, WOOD, 1 1/2 IN NO 8	6
3	74096	MS35206	(NSN 5305-00-722-4630)	
4	96906	MS27183-21	ARMREST	1
5	96906	MS27183-21	SCREW, PAN HEAD 10-24 X 5/8 IN	6
	39428	1581H999	WASHER, FLAT, 5/8 IN (NSN 5310-00-823-8803)	6
			HINGES, 6 IN X 2 IN 2	
			END OF FIGURE	

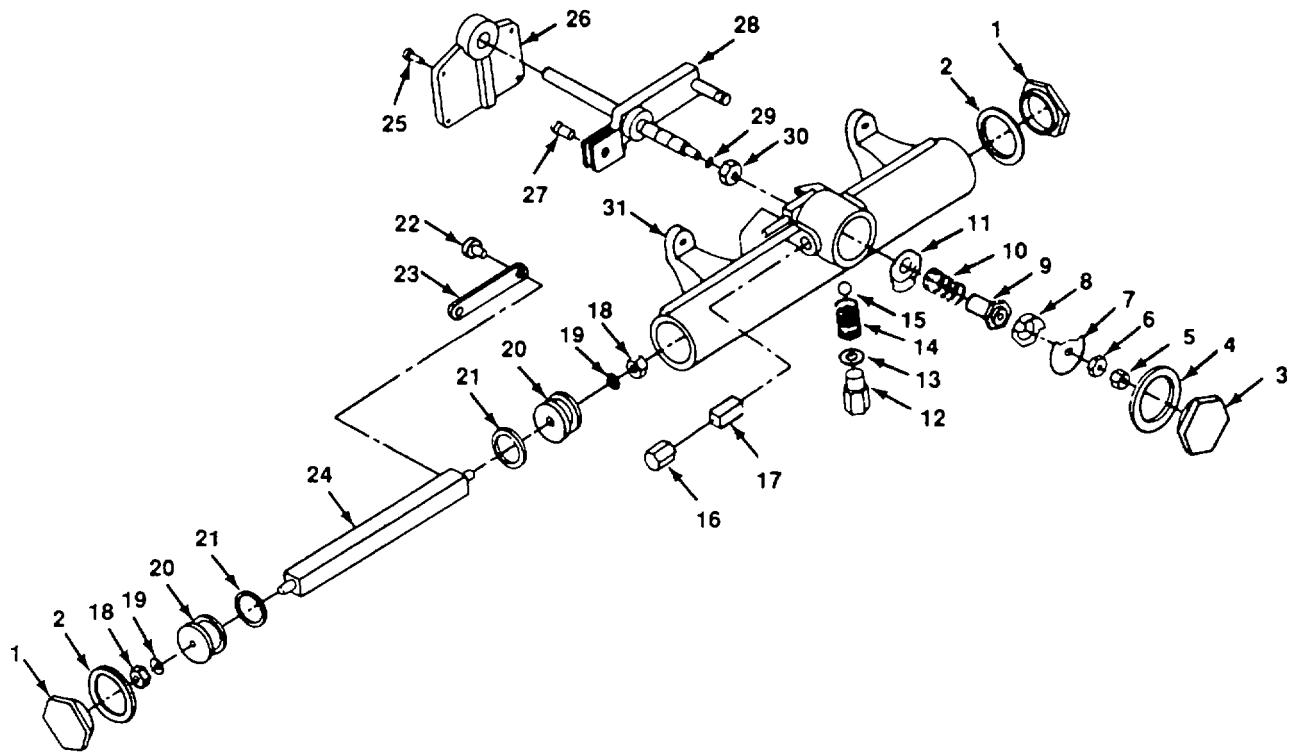




4834-008

Figure 8. Wiper Arm, Motor, Blades.

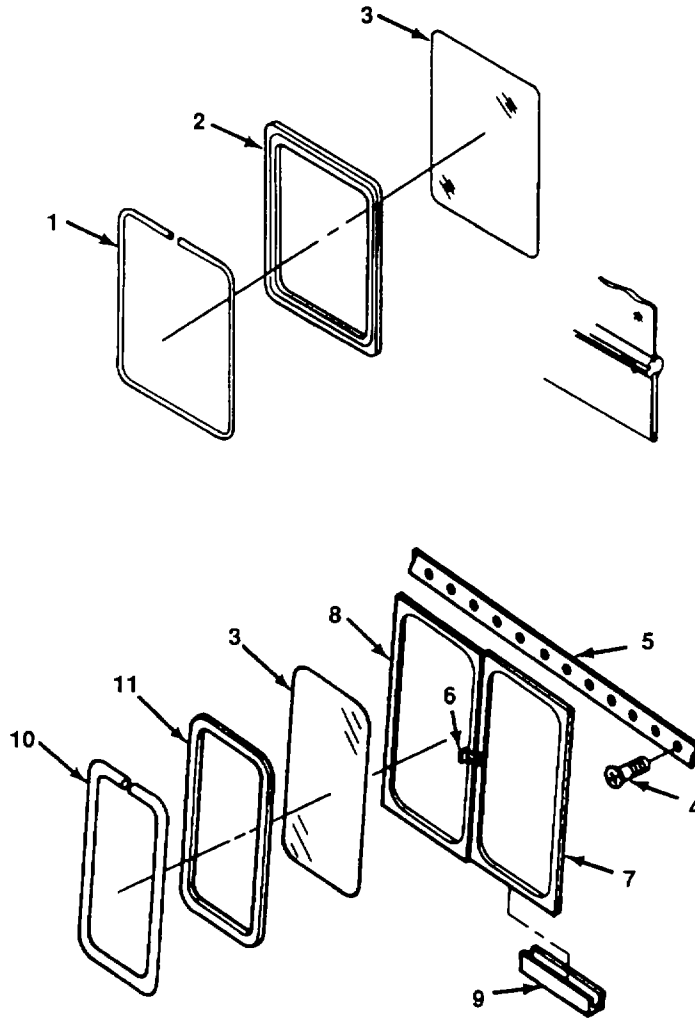
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 8 WINDSHIELD WIPER MOTOR, BLADE AND ARM	
1	96906		SCREW, SET (NSN 5305-00-536-6897)	4
2	96906		PIN, COTTER, 1/16 X 1/2 AND PIN BAR (NSN 5315-00-815-1405)	2
3	82484	GC8-11 (11 IN )	WIPER ARM	2
3	82484	GC8-16 (16 IN )	WIPER ARM	2
4	82484	C1100-10	BLADE, 10 IN LONG	2
4	82484	C1100-14	BLADE, 14 IN LONG	2
5	96906	MS39166-3	NUT, 1/4 IN, HEX HD TUBE COUPLING	8
6	96906	MS35338-44	WASHER, LOCK, 1/4 IN	8
7	96906	MS51967-03	SCREW, CAP, 1/4-20 X 1 3/8	8
8			SPACERS, WOOD, 1 IN SQUARE	8
9	96906	MS13958-20	ADAPTER, STRAIGHT (NSN 4730-00-391-3771)	4
10	96906		VALVE, CUTOFF, 1/8 IN (NSN 4820-00-289-2143)	4
11	96906	MS51873-17	NIPPLE, PIPE, 1/4 X 6 IN.	4
			END OF FIGURE	



4834 009

Figure 9. Wiper Motor.

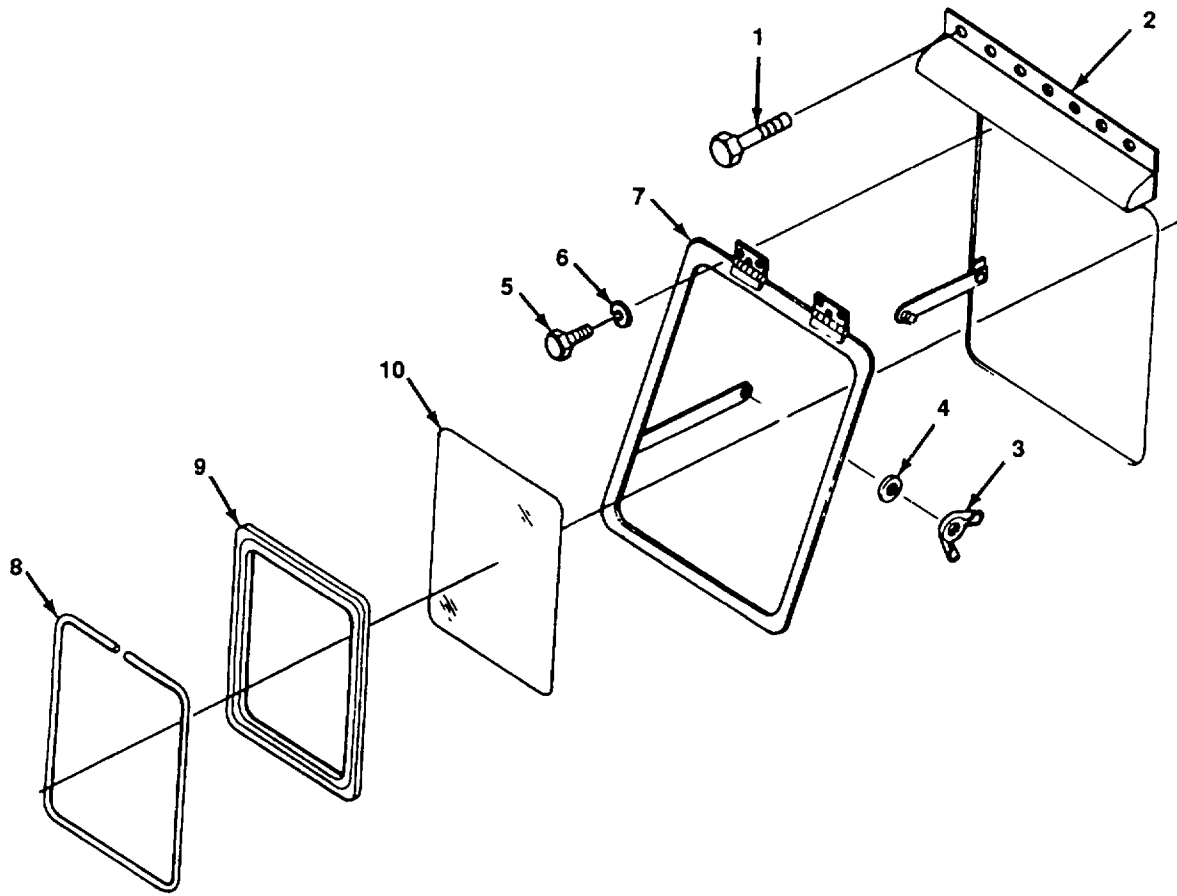
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 9 WIPER MOTOR	
1	82484	C-650-M	ENDCAP	2
2	82484	C-452	GASKETS	2
3	82484		CAP AND CHAMBER	1
4	82484		GASKET	1
5	82484	C-526	LOCKNUT TIMER	1
6	82484	C-751	NUTTIMER	1
7	82484	C-750-DEG	TIMER	1
8	82484	C-752	TIMER REVERSER	1
9	82484		BEARING SLEEVE	1
10	82484	C-303	VALVE SPRING	1
11	82484	C-753-P	VALVE TIMER	1
12	82484	C-602	BALL HOUSING REVERSER	1
13	82484	C-451	GASKET	1
14	82484	C-304	BALL SPRING REVERSER	1
15	82484	C-401	BALL REVERSER	1
16	82484	C-525	EXHAUST NUT	1
17	82484	C-253	MUFFLER FELT	1
18	82484		NUT, HEX-HEAD	1
19	82484		LOCKWASHER	1
20	82484		O-RING RETAINER	2
21	82484		O-RINGS	2
22	82484		SCREW, MACHINE	1
23	82484		CONNECTING LINK	1
24	92484		CONNECTING ROD	1
25	82484		SCREWS	4
26	82484	GC-158 OR GC-162	BEARING PLATE BACK	1
27	82484	F-540	SCREW	1
28	82484	GSR-851-EL	TRANSMISSION	1
29	82484	C-603	SEAL, ROTARY	1
30	82484	C-513	BEARING, NUT SLEEVE	1
31	82484	MA-103-90GRC-851-5	BODY, WIPER MOTOR	1
			END OF FIGURE	



4834-010

Figure 10. Window, Fixed.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 10 WINDOW, FIXED	
1	34439	PP-C9238	WEATHERSTRIP FILLER	V
2	34339	PP-C9233	WEATHERSTRIP	V
3	81348	DD-G-451	GLASS, 1/4 IN	V
4	96906		SCREW, CTSK (NSN 5305-00-754-4529)	11
5			UPPER TRACK, 5 FT LONG	V
		6729158184820	LATCH,SASH	1
7			SASH	1
8			SASH	1
9			LOWER TRACK	1
10	34439	PP-C9238	WEATHERSTRIP FILLER	V
11	34439	PP-C9233	WEATHERSTRIP	V
			END OF FIGURE	



4834-011

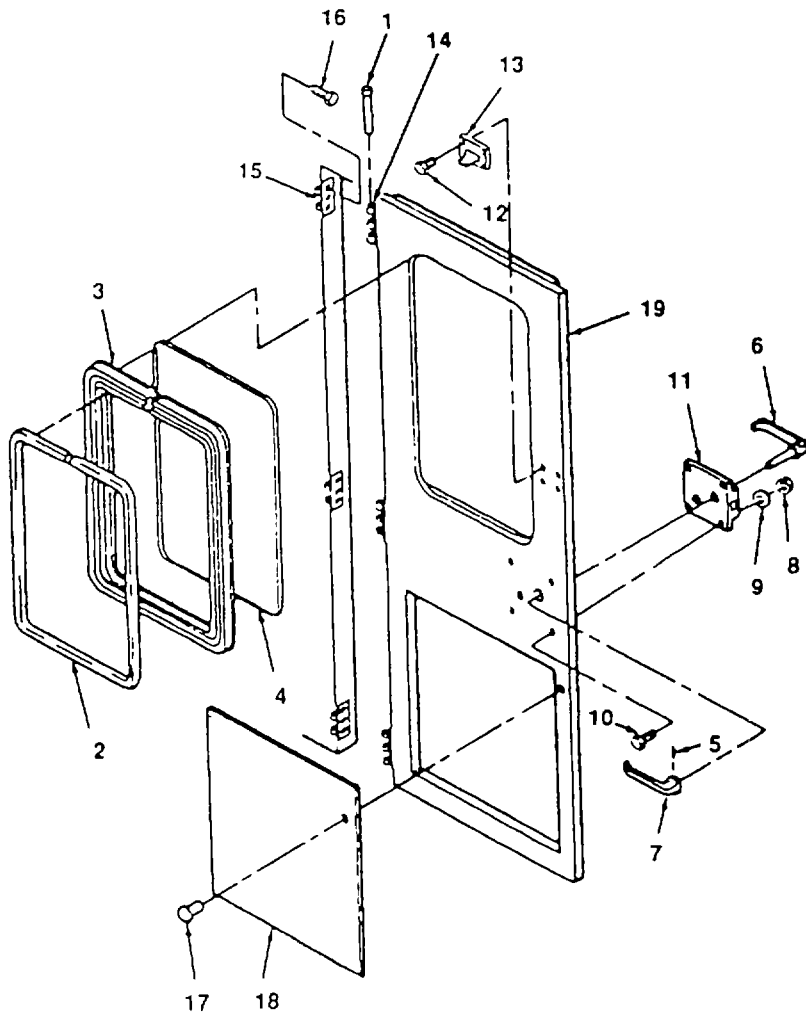
Figure 11. Window Front.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 11 WINDOW, FRONT	
1	96906	MS90725-58	SCREWS, 5/16 X 3/4 (NSN 5305-00-281-9336)	6
2			SHIELD, RAIN	1
3	96906		WINGNUTS, 3/8 IN (NSN 5310-00-827-8487)	2
4	96906	MS35338-46	WASHER, 3/8 IN	2
5	96906	MS90725	SCREW, HEX 1/4-20 (NSN 5305-00-071-2241)	4
6	96906	MS35338-44	WASHER, LOCK, 1/4 IN	4
7			FRAME	1
8	34339	PP-C9233	WEATHERSTRIP FILLER	V
9	34339	PP-C9238	WEATHERSTRIP	V
10	81348	DD-G-451	GLASS, SAFETY, 1/4 IN	V
			END OF FIGURE	





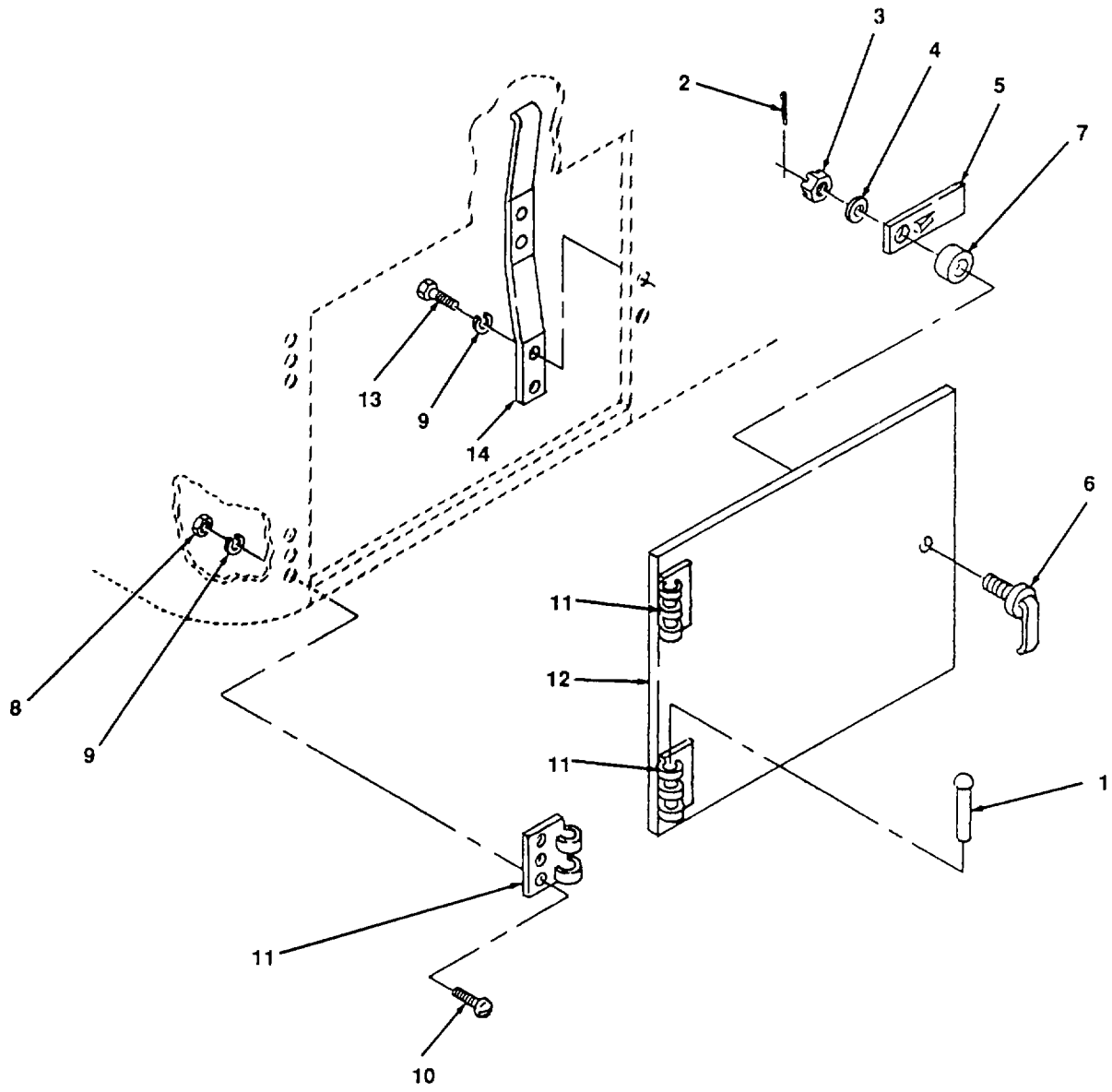
4834 012

Figure 12. Cab Door and Lock.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 12 CAB DOOR AND LOCK	
1	96906		PINS, 5/16 X 3 1/2 IN (NSN 5306-00-026-4839)	3
2	34339	PP-C9233	WEATHERSTRIP FILLER	V
3	34339	PP-C9238	WEATHERSTRIP	V
4	81348	DD-GT-451	GLASS	1
5	AU-VE-CO	9006	PIN, SPRING, 1/8 X 3/4 IN.	2
6			HANDLE, INSIDE	1
7			HANDLE, OUTSIDE	1
8	96906	MS51967-09	NUT, FLAT HEAD, 1/4	4
9	96906	MS35338-44	WASHER, LOCK, 114	4
10	96906	MS90725-6	SCREWS, 1/4 X 3/4 (NSN 5305-00-068-0502)	4
11			DOOR LOCK ASSY	1
12	96906		SCREW, MACHINE (NSN 5305-00-068-0502)	4
13			DOOR CATCH	1
14	96906		HINGE HALVE, INSIDE, 3 1/2 X 1 1/4 IN	3
15	96906		HINGE HALVE, OUTSIDE	3
16	96906		SCREWS, CSKH, 1/4-20 X 1 1/2 (NSN 5305-00-958-5248)	18
17	96906		RIVET, 3/16 X 1/4 (NSN 5320-00-493-4101)	8
18	96906		SCREEN, 23 1/2 X 23 IN	1
			END OF FIGURE	



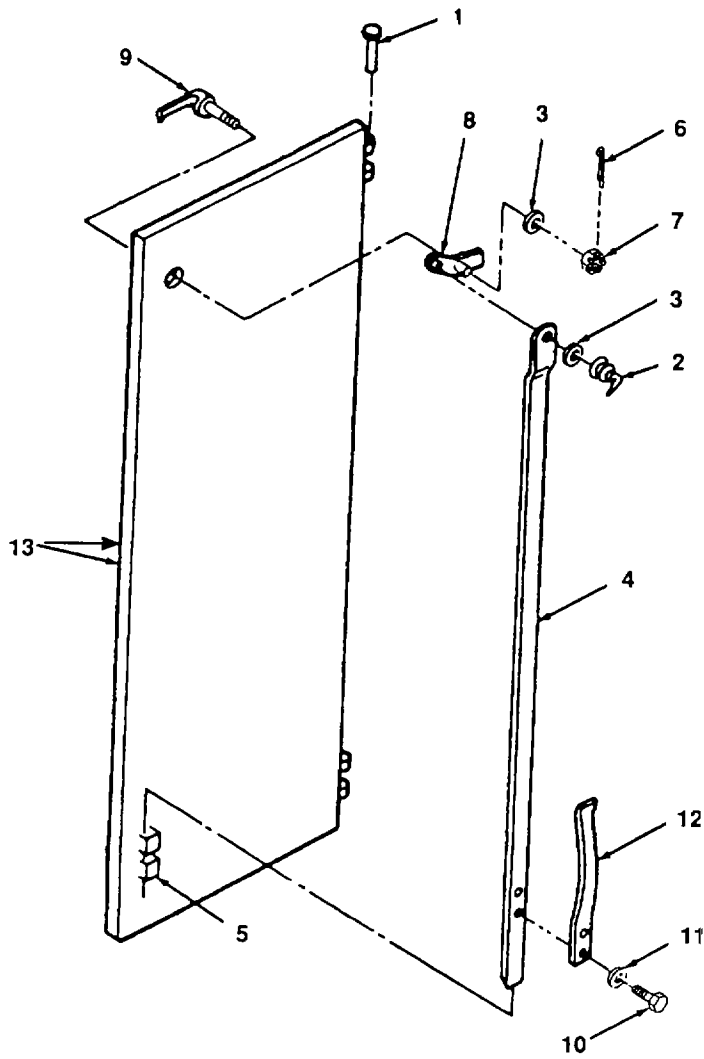
4834 013

Figure 13. Door, Side Compartment.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 13 DOOR, SIDE COMPARTMENT	
1	96906		PIN, 5/16 X 3 1/2 IN LONG (NSN 5306-00-026-4839)	2
2	96906		PIN, COTTER, 1/8 X 3/4 (NSN 5310-00-236-8357)	1
3	96906		NUT, CASTLE, 1/2 IN (NSN 5310-00-281-5346)	1
4	96906	MS27183-18	WASHER, FLAT, 1/2 IN (NSN 5310-00-984-8818)	1
5			LATCH	1
		672915 6731285	HANDLE	1
7			SPACER, 1/2 X 1/ 3/4 IN	1
8	96906	MS51967-06	NUT, 5/16 IN	6
9	96906	MS35338-45	WASHER, LOCK, 5/16 IN	8
10	96906	MS90725-34	SCREW, 5/16 X 1 IN (NSN 5305-00-080-3639)	6
11			HINGE, DOOR	2
12			DOOR	1
13	96906	MS90725-325	SCREW, HEX, 5/16	2
14			SPRING	1
			END OF FIGURE	



4834-014

Figure 14. Electrical Equipment Cabinet Door.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 02 CAB GROUP	
			FIG. 14 DOOR, ELECTRICAL EQUIPMENT CABINET	
1			PIN, 1/4 X 3 1/2	2
2			SPRING	1
3	96906	MS27183-18	WASHER, FLAT 1/2 IN	2
4			LATCH BAR, 41 IN LONG	1
5			GUIDE LOOP 5/16 X 1	2
6	96906		COTTER PIN, 1/8 X 3/4 (NSN 5315-00-236-8357)	1
7	96906	MS51967-15	NUT, 1/2 IN (NSN 5310-00-281-5346)	1
8			LATCH LEVER, 4 1/2 IN X 2 1/8 IN	1
9		MS90725-3	DOOR HANDLE	1
10	96906		SCREW, 1/4 IN X 1/2 IN (NSN 5305-00-071-2506)	2
11	96906	MS35338-44	LOCKWASHER, 1/4 IN	2
12			SPRING, 3/8 WIDE X 8 1/2 IN LONG	2
13			DOOR	
			END OF FIGURE	

4  
5 THRU 13

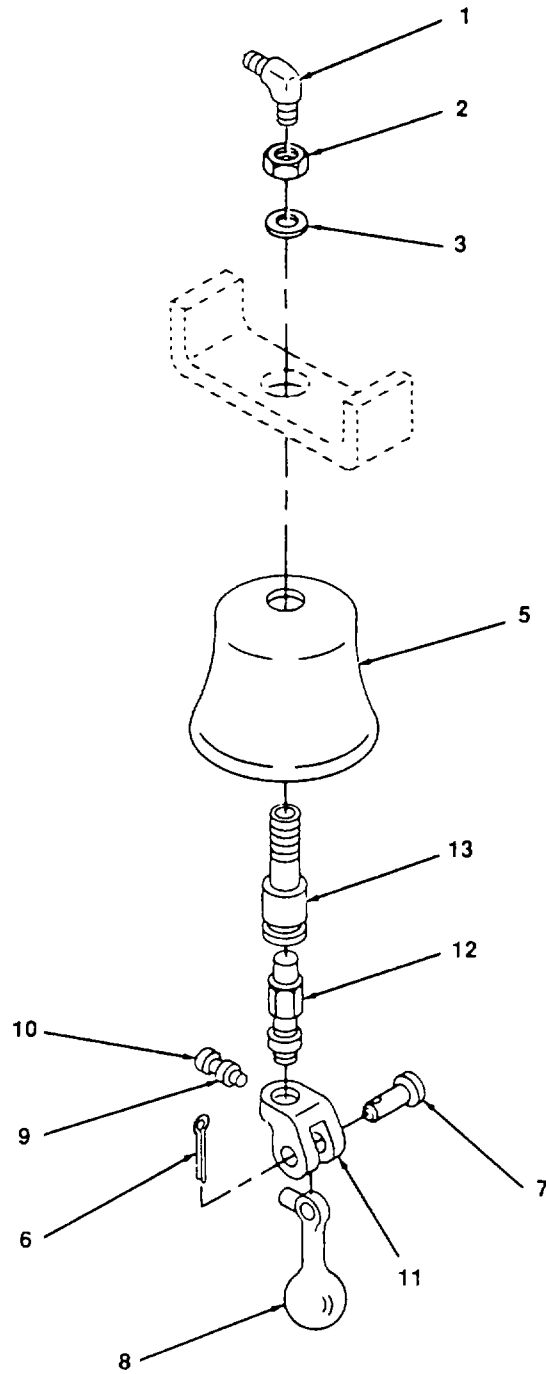


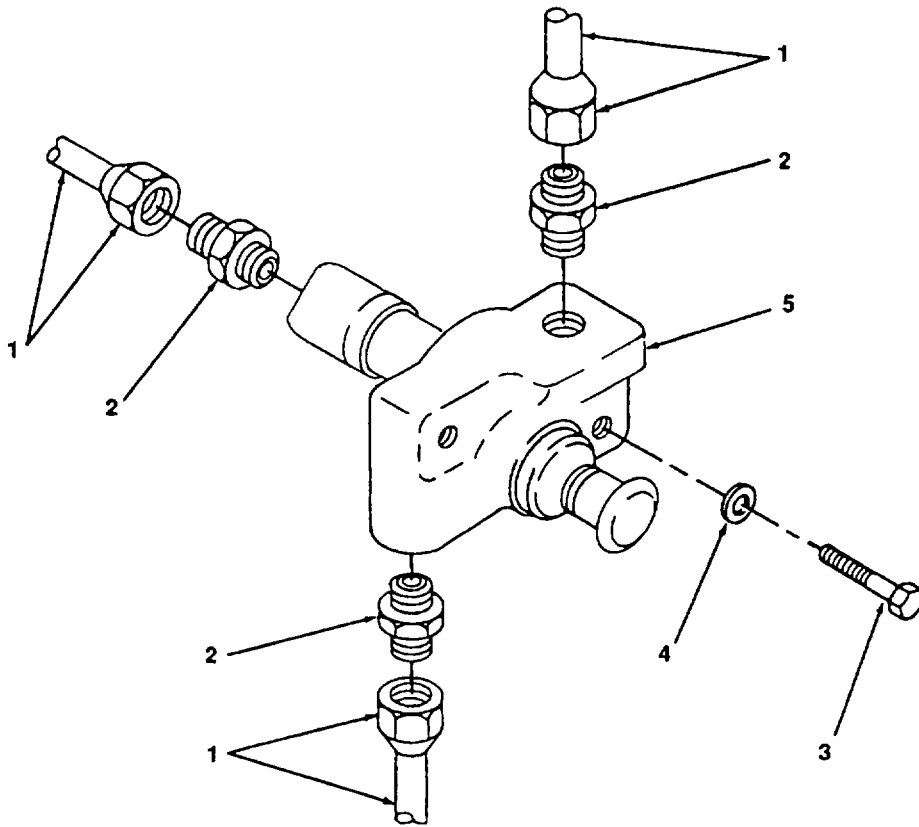
Figure 15. Bell Assembly, Safety Warning.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 03 BELL GROUP	
			FIG. 15 BELL ASSY, SAFETY WARNING	
1	96906	MS51504-B4-4	ELBOW	1
2	96906	MS51967-27	NUT, 7/8-9 UNC	1
3	96906	MS21783-25	WASHER, FLAT 7/16	1
4	30187	497A365P11	BELL ASSY, SAFETY WARNING	1
5			BELL	1
6	30187	497A1012-1	COTTER PIN	1
7	30187	1091	PIN	1
8	30187	090-1	CLAPPER	1
9	30187	1115	JAM NUT	1
10	30187	1114	SETSCREW	1
11	30187	1870	CLEVIS	1
12	30187	507	MOTOR ASSEMBLY	1
13	30187	506	MOTOR HOUSING	1
			END OF FIGURE	





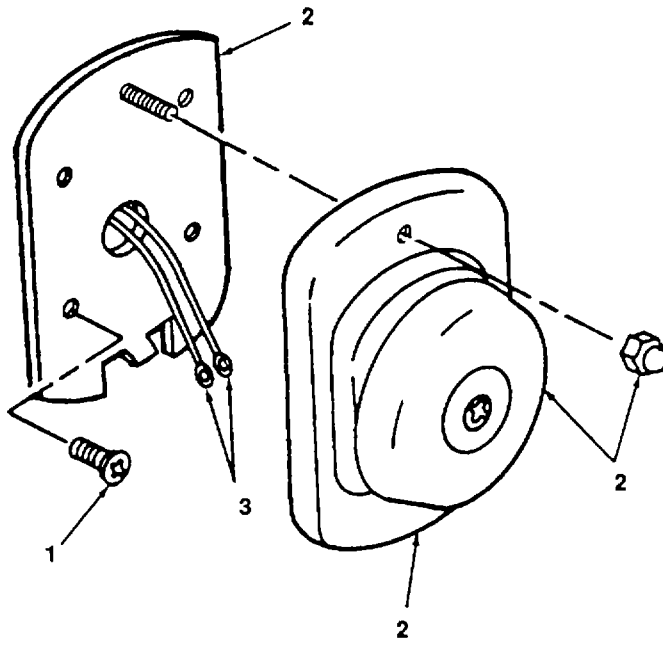
4834-016

Figure 16. Operating Valve, Safety Warning Bell.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1			GROUP 03 BELL GROUP  FIG 16 VALVE ASSY, SAFETY WARNING BELL OPERATING  AIR LINE, 1/4 IN, MAKE FROM, TUBING, 1/4 IN 3 IBC9350 (04741) FLARE FITTING, 1/4 IN (NSN 4730-00-277-6988) ADAPTER, STRAIGHT, 1/4 IN SCREW, HEX, 5/1618 UNC WASHER, LOCK, 5/16 BELL RINGER OPERATING VALVE  END OF FIGURE	3 2 2 1
2	30327	U1-4B		3
3	96906	MS90725		2
4	96906	MS27183-12		2
5	30187	616-1-34		1



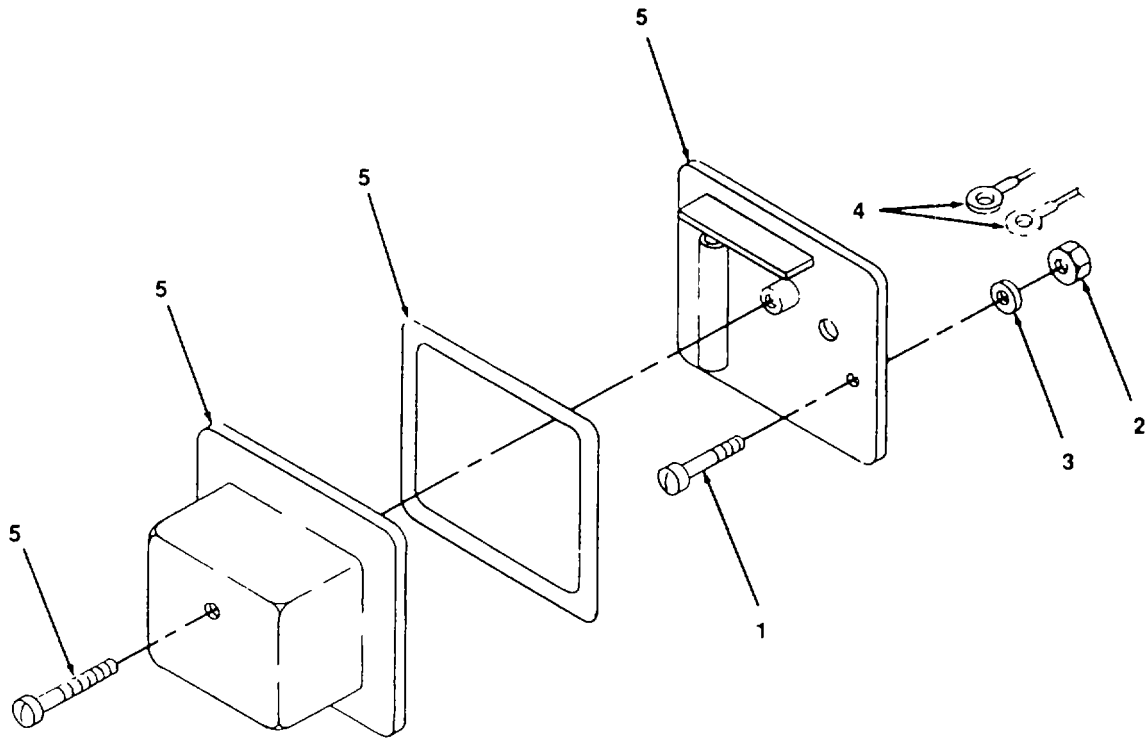
4834-017

Figure 17. Bell, Multiple-Unit Engine Warning.

SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
<p>1 2 3</p>	<p>96906 24446</p>	<p>497A365P11</p>	<p>GROUP 03 BELL GROUP</p> <p>FIG. 17 BELL, MULTIPLE-UNIT ENGINE WARNING</p> <p>SCREW BELL ASSY, REF DES, ETWB LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, 8491796 (72915) AND TERMINAL 14-10, 31906 (89110) REF DES, WB10M, 90N</p> <p>END OF FIGURE</p>	<p>4 1 2</p>



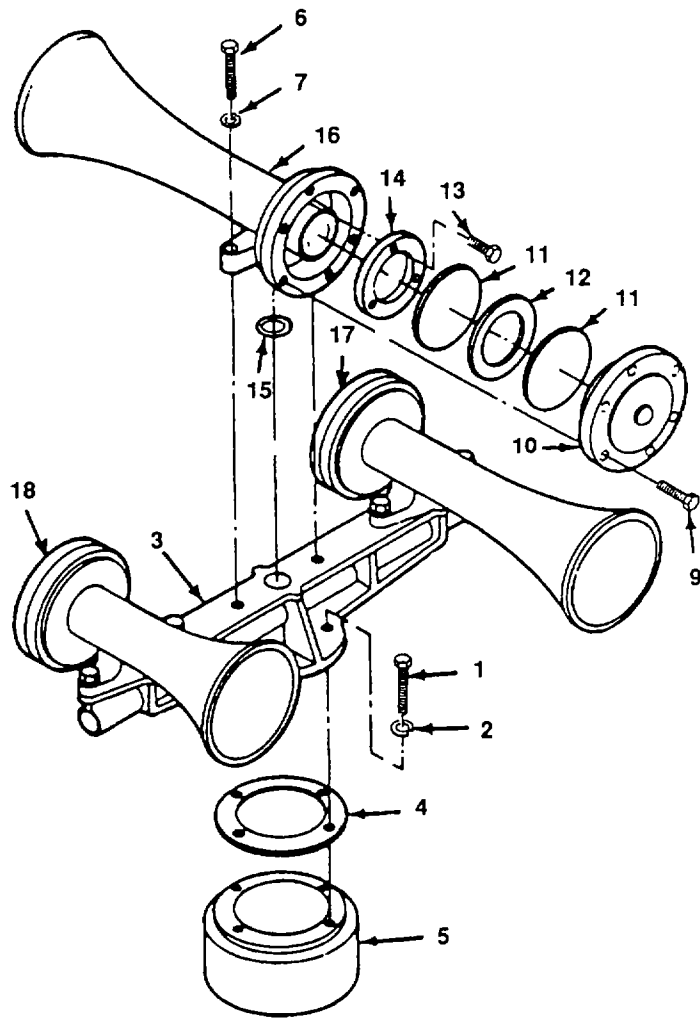
4834 018

Figure 18. Buzzer, Engine System Warning.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2 3 4	96906 96906 96906	MS35226- MS35649-282 MS35338-42	GROUP 03 BELL GROUP  FIG. 18 BUZZER, ENGINE SYSTEM WARNING  SCREW NUT WASHER, LOCK LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, 8491796 (72915) AND TERMINAL 14-10, 434780 (54900)	2 2 2 2
5	24446	497A364P2	BUZZER ASSEMBLY, REF DES, BUZ  END OF FIGURE	1



4834 019

Figure 19. Horn Assembly.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 03 BELL GROUP	
			FIG. 19 HORN ASSEMBLY	
1	96906	MS90725-115	SCREW, 1/2 X 2 IN (NSN 5305-00-701-7268)	4
2	96906	SM35338-49	WASHER, LOCK, 1/2 IN	4
3			BASE	1
4	42323	30120	GASKET, RUBBER	1
5			MOUNT	1
6	96906	MS90725-72	SCREW, HEX HEAD, 3/8 X 3 1/2 IN, (NSN 5305-00-269-3222)	2
7	96906	MS535333-42	WASHER, LOCK, STAR, 3/8	2
8	42323	K-3-H	HORN ASSEMBLY	1
9	96906	MS90725-7	SCREW, 1/4 X 7/8 IN	6
10	42323	30109	CAP	1
11	42323	30111	DIAPHRAGM DISC	2
12	42323	30112	CUSHION RING	1
13	42323	30144	SCREW	3
14	42323	30143	DIFFUSER	1
15	42323	30120	SEAL	1
16	42323	30101	BELL BODY	1
17	42323	30102	BELL BODY	1
18	42323	30103	BELL BODY	1
			END OF FIGURE	



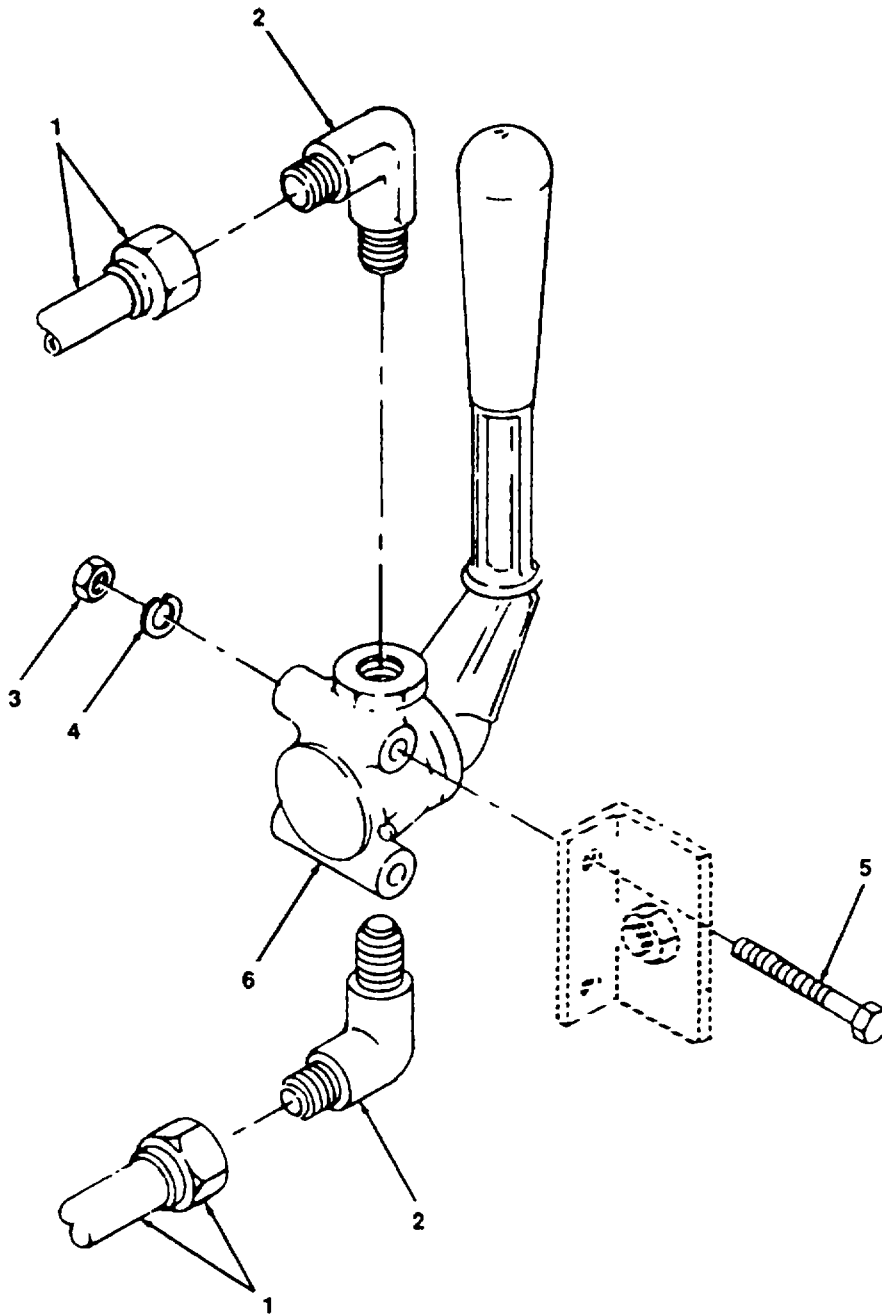


Figure 20. Valve Assy, Horn Operating.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1			GROUP 04 HORN GROUP  FIG. 20 VALVE ASSEMBLY, HORN OPERATING  AIR LINE, MAKE FROM, FITTING, FLARE, TUBING, COPPER 55529 (95535) (NSN 4730-00-085-6355)	2
2	30327	649F1-2X1-2	ELBOW, 900, 1/2 IN (NSN 4730-00-460-2459)	2
3	96906	MS51967-06	NUT, HEX, 5/16 IN (NSN 5310-00-880-7744)	2
4	96906	MS35338-45	WASHER, LOCK, 5/16 (NSN 5310-00-595-4679)	2
5	96906	MS90725-41	SCREW CAP, 5/16 X 2 1/8 (NSN 5305-00-051-4082)	2
6	30187	353-100	VALVE, ASSEMBLY, HORN OPERATING	1
			END OF FIGURE	

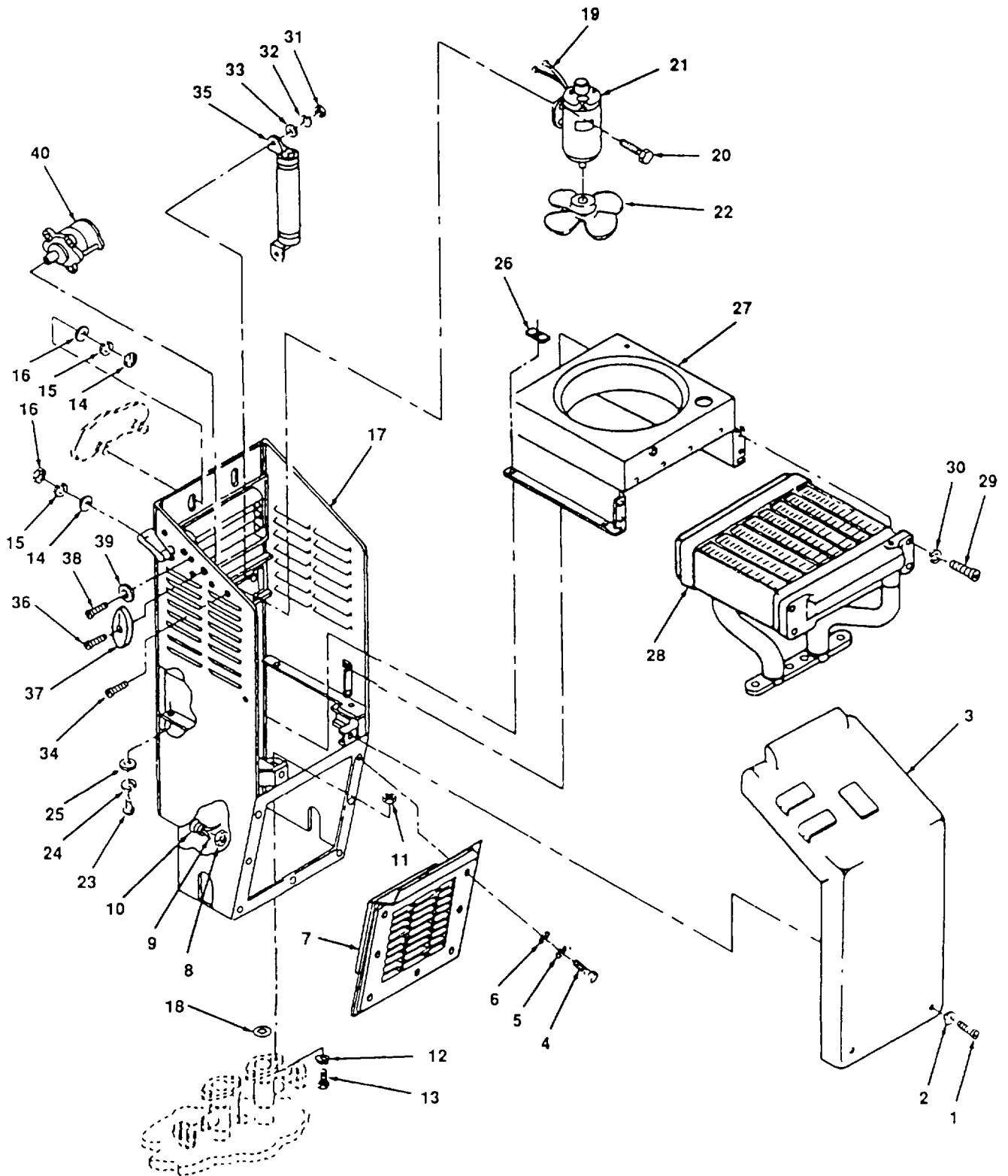


Figure 21. Cab Heater Assembly.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 05 CAB HEATER GROUP	
			FIG. 21 HEATER ASSEMBLY, CAB	
1	96906	MS90725	SCREW	2
2	96906	MS35338-52	WASHER, LOCK	2
3	67049		COVER	1
4	96906	MS90725-5	SCREWS	7
5	96906	MS35338-52	WASHER, LOCK	7
6	96906	MS27183-25	WASHER, FLAT	7
7	67049		LOWER GRILLE	1
8	59730	MFR/PN 511	CONDUIT NUT (NSN 5975-01-185-2223)	1
9			LEAD, ELECTRICAL, MAKE FROM; WIRE, 8491796 (72915), TERMINAL, 14-10 P1434780 (59400), REF DES; GHN, 1AP53E	2
10			INPUT CONDUIT	1
11	96906	MS51967-09	NUT	4
12	96906	MS35338-46	WASHERS, LOCK	4
13	96906	MS90725-64	SCREW	4
14	96906	MS51967-15	NUT, HEX	2
15	96906	MS35338-48	WASHERS, LOCK	2
16	96906	MS37183-18	WASHERS, FLAT	2
17	50024	12400123-2	HEATER	1
18	96906		O-RING (NSN 5330-00-5408)	2
19			LEAD, ELECTRICAL, FAN MOTOR, WL52T, MAKE FROM, WIRE, 8491796 (72915) TERMINAL 14-10, 01434780 (59400)	2
20	96906	MS90725-113	SCREW, CAP	2
21	67049	A230910	MOTOR (SEE FIG. 22 FOR BREAKDOWN)	2
22	67049		FAN	1
23	67049		SCREWS	4
24	67049		WASHER, LOCK	4
25	67049		WASHER, FLAT	4
26	67049		CLIP	
27	67049		GUARD, FAN	

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 21 HEATER ASSEMBLY, CAB (CONT)	
28	67049		RADIATOR CORE	
29	67049		SCREWS	4
30	67049		WASHER, LOCK	4
31	67049		NUT, HEX	2
32	67049		WASHER, LOCK	2
33	67049		WASHER, FLAT	2
34	67049		SCREW	2
35	67049		RESISTOR	1
36	67049		SCREW	1
37	67049		KNOB	1
38	67049		SCREW	2
39	67049		WASHERS, LOCK	2
40	67049		SWITCH, FAN	2
			END OF FIGURE	

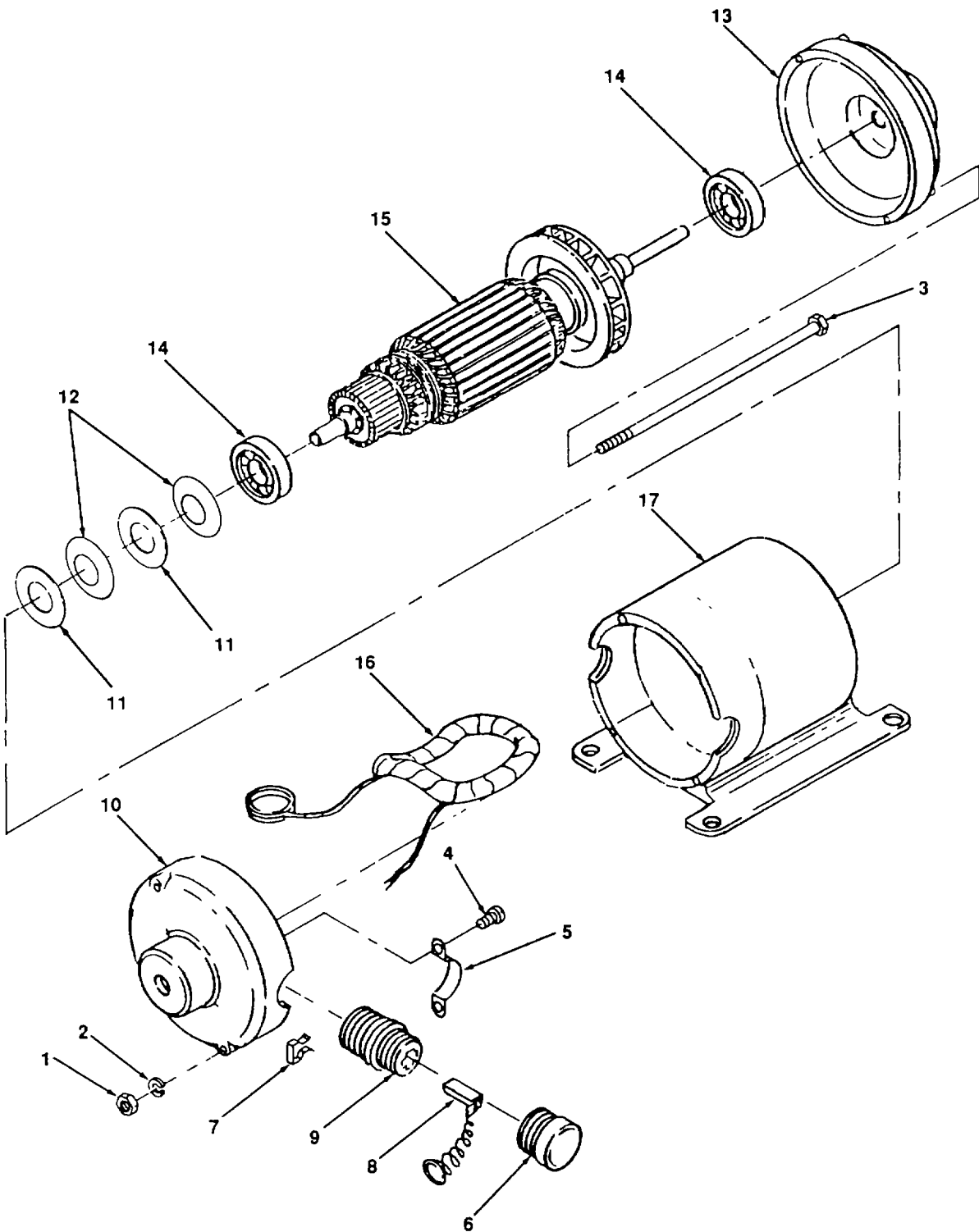


Figure 22. Motor Heater Fan

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 05 CAB HEATER GROUP	
			FIG. 22 MOTOR, HEATER FAN	
1	67409	230921	NUTS - THRU BOLTS	2
2	67409	230920	WASHER, LOCK	2
3	67409	129120	CLAMP BOLTS	2
4	67409	230919	SCREW FOR STRAP	4
5	67409	230918	STRAP FOR BRUSH HOLDER	2
6	67409	230917	BRUSH HOLDER CAP	2
7	67409	230922	LEAD CLIP FOR BRUSH HOLDER	2
8	67409	98664	BRUSH ASSEMBLY	2
9	67409	230916	BRUSH HOLDER WITH INSULATION	2
10	67409	129115	END SHIELD- COMM END	1
11	67409	230924	BEVEL SPRING WASHER	2
12	67409	230925	SHIM WASHERS (.010 INCH THICK)	V
13	67409	129116	END SHIELD- PULLEY END	1
14	67409	129111	BALL BEARING	2
15	67409	230911	ARMATURE ASSEMBLY (ARMATURE PART NUMBER LOCATED ON SLOT WEDGES)	1
16	67409	230913	FIELD COILS COMPLETE - 1 SET (2 COILS)	1
17	67409	230912	STATOR - COMPLETE WITH FIELD COILS	1
			END OF FIGURE	

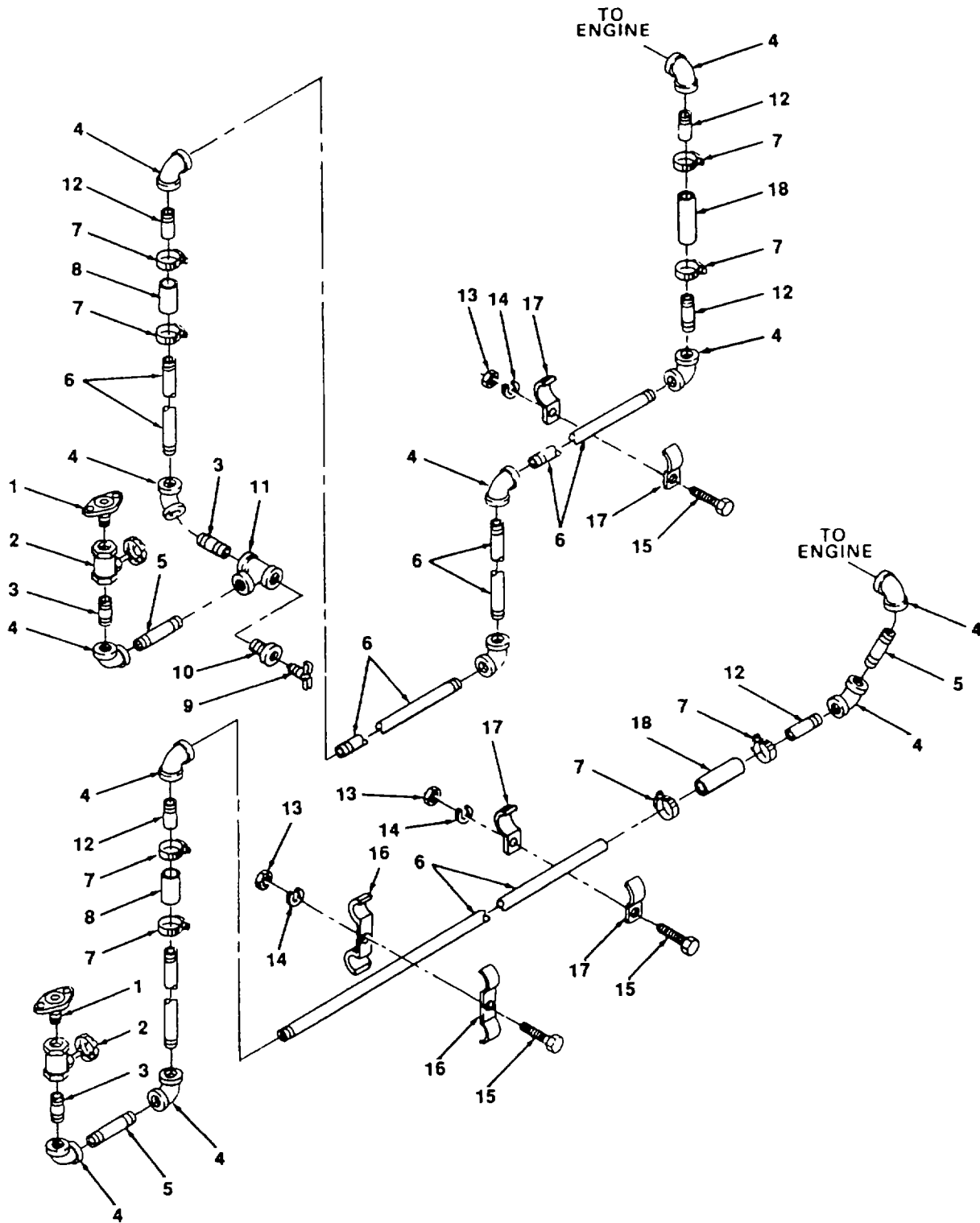


Figure 23. Heater Lines, Hoses and Fittings.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 05 CAB HEATER GROUP	
			FIG. 23 HEATER LINES, HOSES AND FITTINGS	
1	82722	585177	FLANGE	2
2	14448	404	VALVE, GATE, 3/4 IN (NSN 4820-00-684-6162)	2
3	96906	MS51873-103B	NIPPLE, BLACK, 3/4 IN, 3 IN LONG	3
4	72423	1201-150	ELBOW, 90 DEGREE, 3/4 IN	12
5	96906	MS51873-109B	NIPPLE, BLACK, 3/4 IN, 6 IN LONG	3
6	81346	ASTM-A120	PIPE, BLACK, 3/4 IN , CUT TO FIT	V
7	96906		CLAMP, HOLSE #16 (NSN 4730-00-278-4123)	8
8	96906		HOSE, RUBBER, 3/4 IN X31/21N LONG (NSN 4720-00-325-4123)	2
9	96906		DRAIN, PETCOCK, 1/2 IN (NSN 4820-00-542-2370)	1
10	72423	2071-149	REDUCER BUSHING, 3/4 TO 1/2 IN	1
11	72423	1231-150	TEE, BLACK, 3/4 IN	1
12	96906	MS51873-97B	NIPPLE, BLACK, 3/4 X 1 1/2 IN LONG	5
13	96906	MS51967-9	NUT, HEX, 3/4 IN -28 UNC	4
14	96906	MS35338-46	WASHER, LOCK, 3/8 IN	4
15	96906	90725-64	SCREW, CAP, 3/8 X 1-1/2 IN	4
16	96906	13228E2148-34	CLAMP, SINGLE, 3/4 IN	2
17	96906	13228E2148-38	CLAMP, SINGLE, 3/4 IN	2
18	96906		HOSE, RUBBER, 3/4 X 3 3/4 IN (NSN 4720-00-235-4123)	2
			END OF FIGURE	

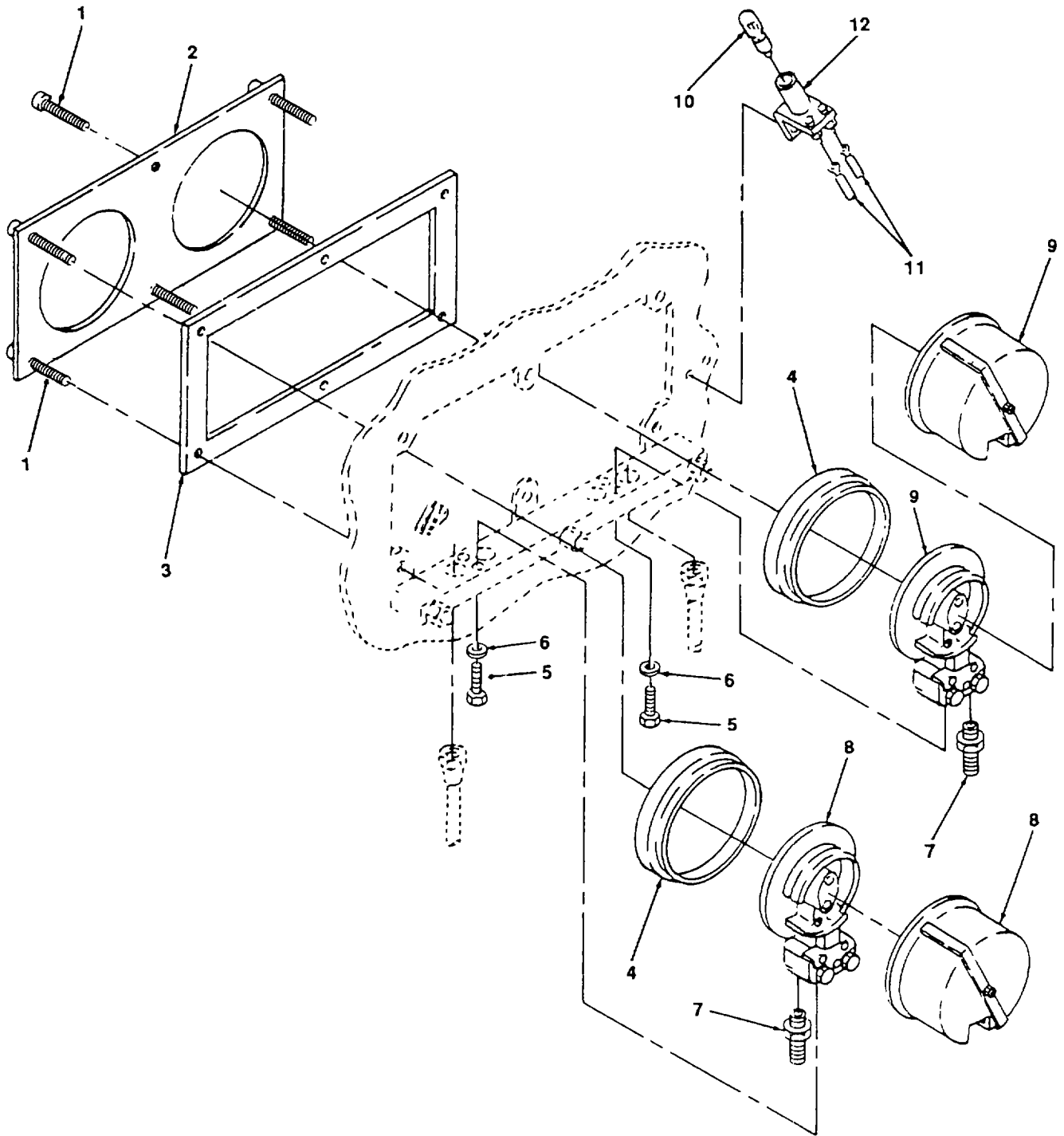


Figure 24. Airgages Duplex.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 06 GAGES AND INSTRUMENTS	
			FIG. 24 GAGES, DUPLEX AIR	
1	30187		SCREW, KNURLED HEAD, 1/4 INCH, CAPTIVE	6
2	30187		PLATE, GAGE COVER	1
3			GASKET, COVER PLATE, MAKE FROM CORK, 1/4 IN	1
4	30187	3951	SPACER, CLEAR PLASTIC	2
5	96906	MS90725-6	SCREW, HEX HEAD, 1/4-20 UNC	4
6	96906	MS27183-20	WASHER, 1/4 IN	4
7	30327	U1-4B	ADAPTER, PIPE TO TUBE, 1/4 IN	2
8	30187	795-160	GAGE, AIR	1
9	30187	126-001	GAGE, AIR	1
10	24446	41A210582P6	BULB (GE44)	2
11			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, P/N 849176 (72915) TERMINAL, 14-10 02835280 (59400) REF DES, GLA, -8N, N52B, 1 NMXX, 66N, GLJ	4
12	24446	41B564389G1	SOCKET, ASSY LIGHT	2
			END OF FIGURE	

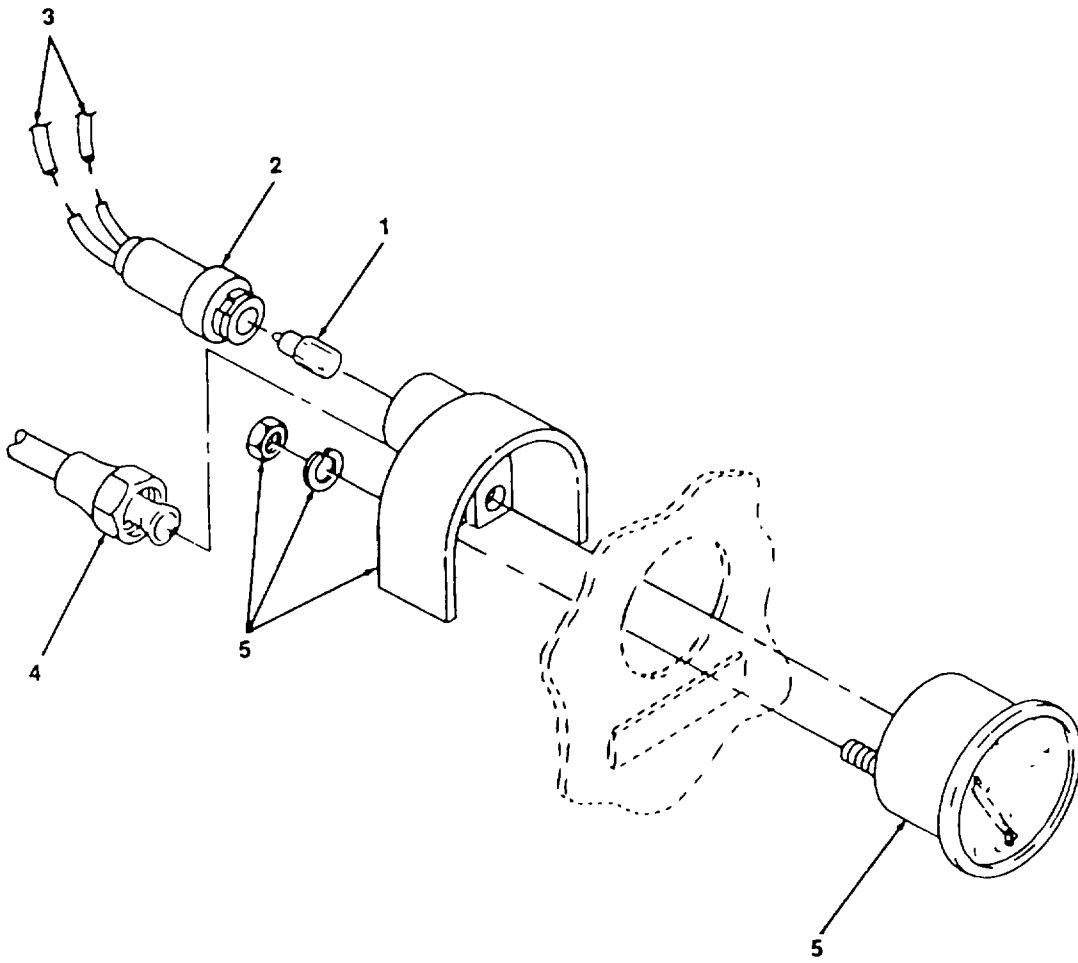


Figure 25. Gage Engine Oil Pressure

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 06 GAGES AND INSTRUMENTS	
			FIG. 25 GAGE, ENGINE OIL PRESSURE	
1	24446	41A210382P6	BULB (GE 44)	1
2	24446	41B564389G1	SOCKET, BULB	1
3			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, 8491796 (72915), TERMINAL, SIZE 10, P/N 31906 (89110) REF DES GBL, X3N	1
4			LINE, OIL PRESSURE, MAKE FROM, TUBING 9BC9350 (04741), NUT, TUBE FLARE, 1/4 IN , P/N MS35872	1
5	24446	41B543600P1	GAGE ASSEMBLY, OIL PRESSURE	1
			END OF FIGURE	

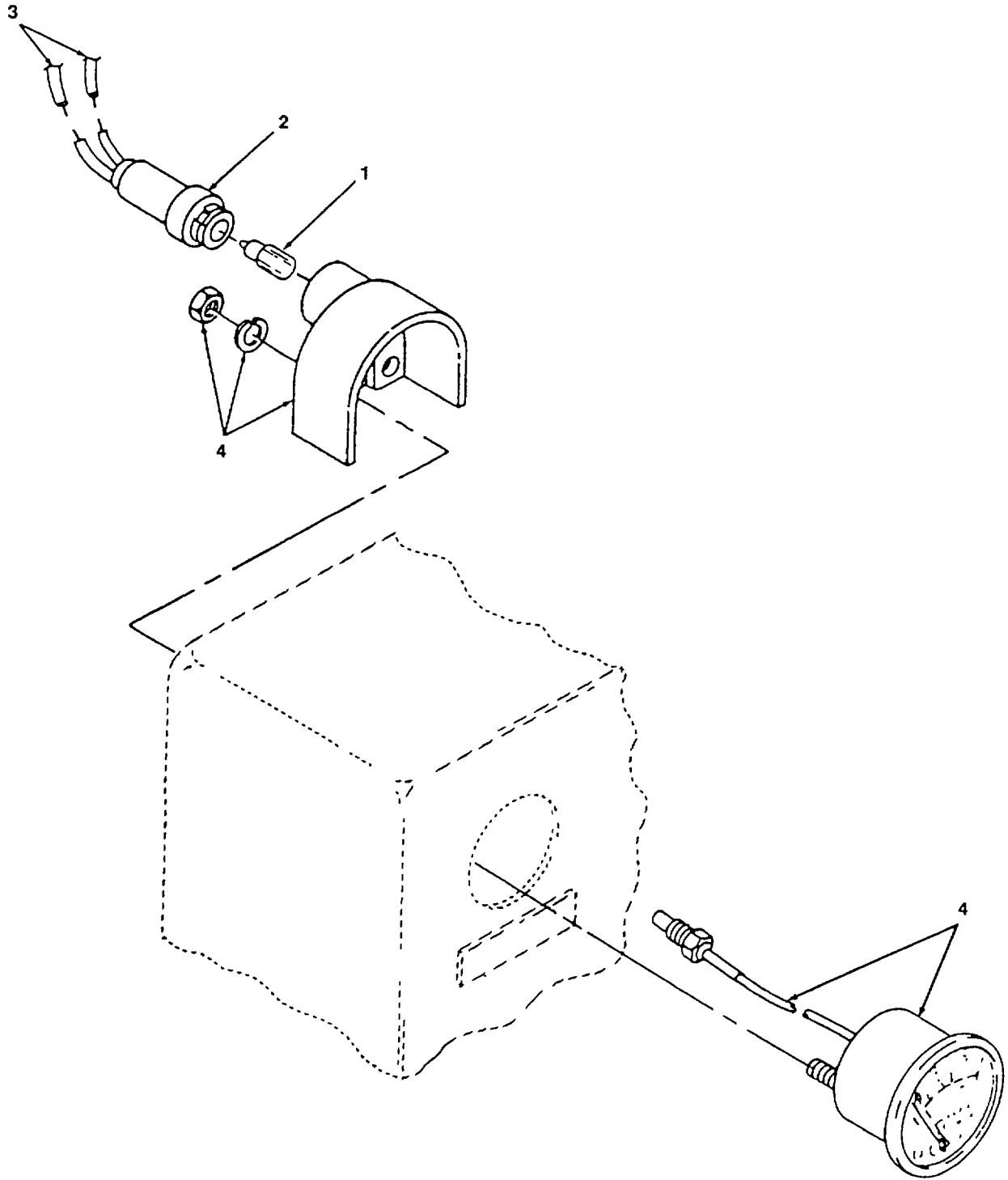
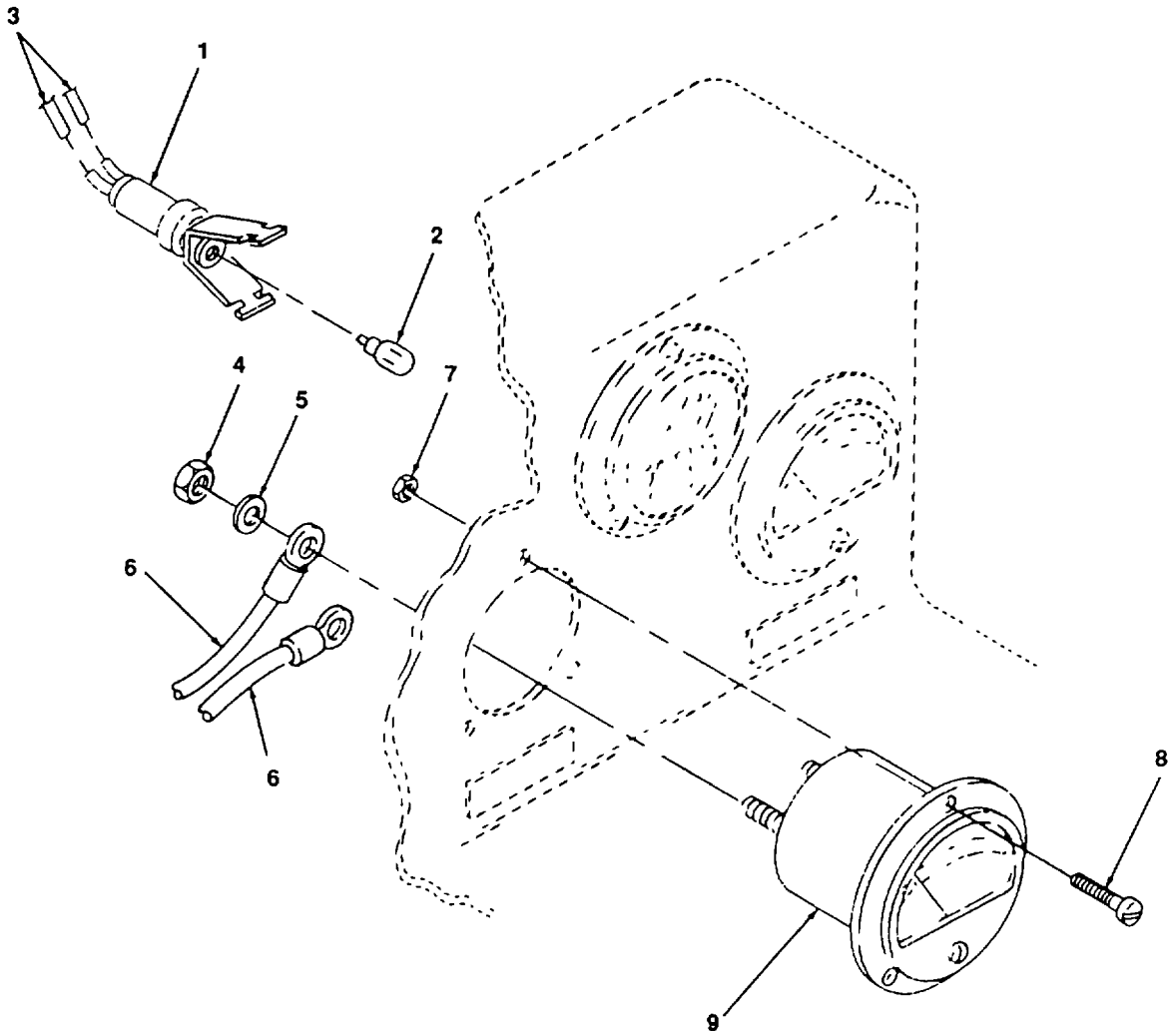


Figure 26. Gage, Engine Temperature

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 06 GAGES AND INSTRUMENTS	
1	24446	41A210382P6	FIG. 26 GAGE, ENGINE TEMPERATURE	2
2	24446	41B564389G1	BULB (GE 44)	2
3			SOCKET, BULB	2
			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, P/N 8491798, TERMINAL 14-6, P/N 31906 (89101) REF DES GLE, 73N	4
4	24446	41 B543591P5	GAGE, ENGINE TEMPERATURE	2
			END OF FIGURE	

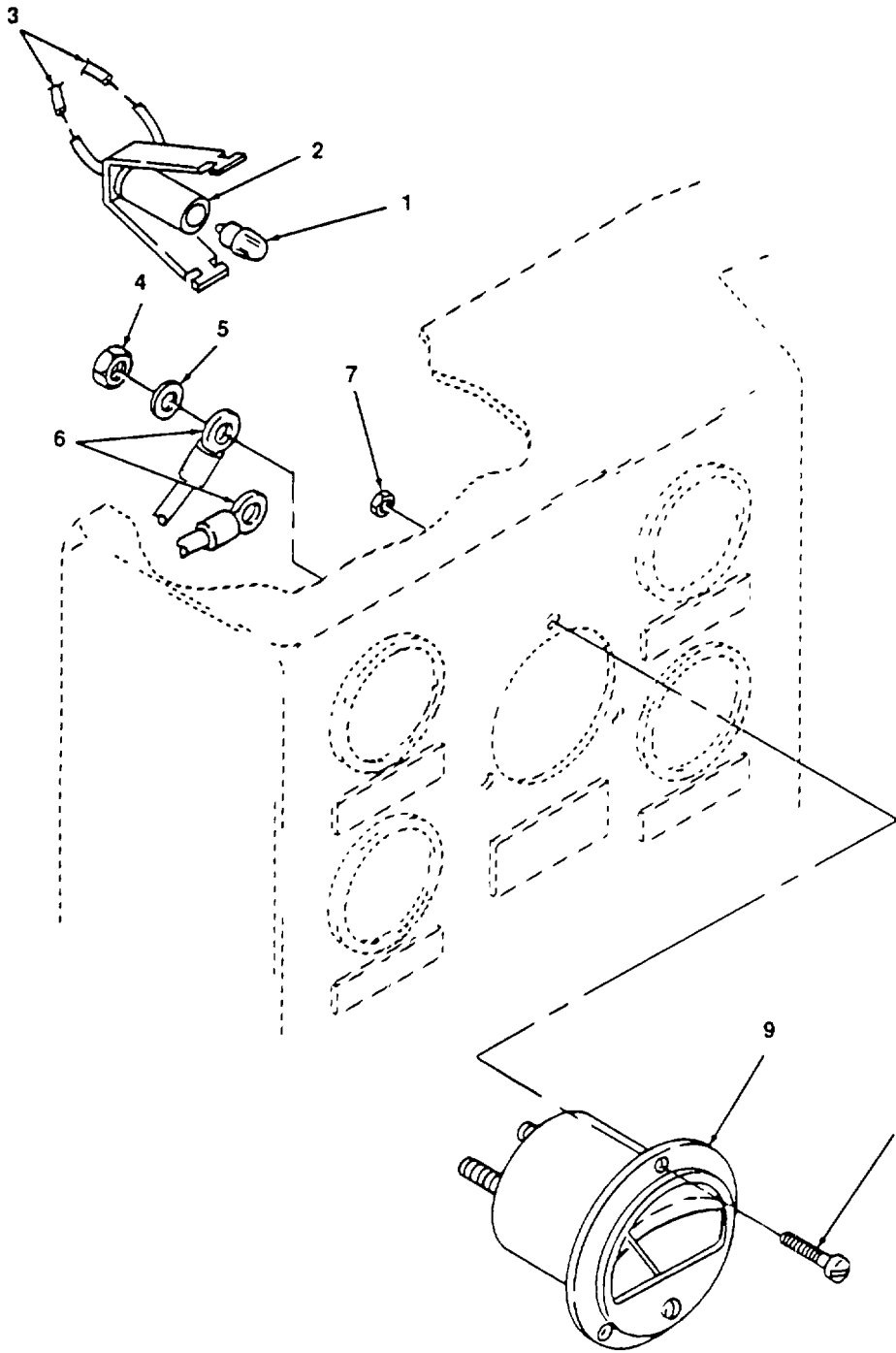


4834-027

Figure 27. Gage, Load Meter.



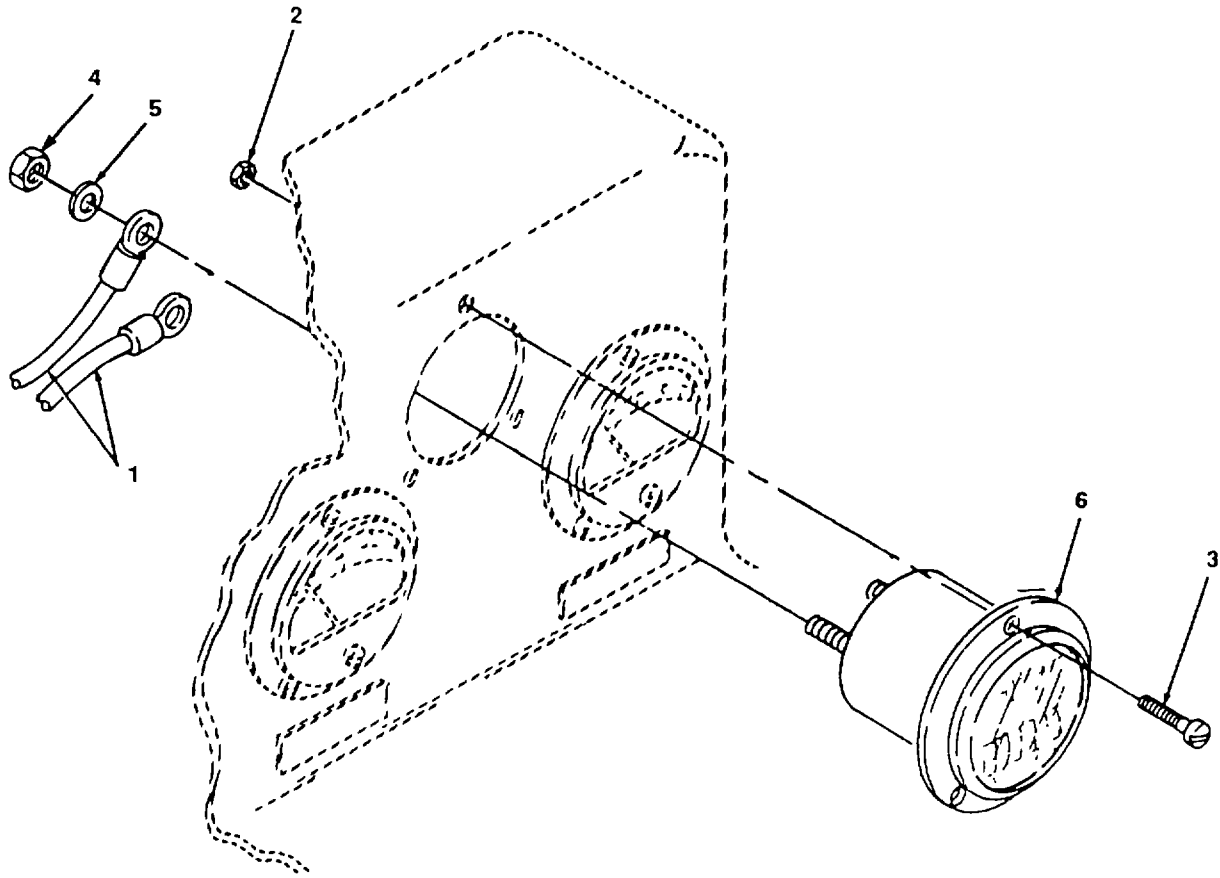
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 06 GAGES AND INSTRUMENTS	
			FIG. 27 GAGES, LOAD METER	
1	24446	41B564389G1	SOCKET	2
2	24446	41A210382P6	BULB, (GE44)	2
3			LEADS, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, P/N 8491798, TERMINAL, 14-6 P/N 31906 (89101) REF DES, GLE, 73N JU, GLH	2
4	96906	MS51967-15	NUT, #10	2
5	96906	MS35338-48	WASHER, LOCK, #10	2
6			LEAD, WIRE, MAKE FROM, WIRE, 16 AWG, P/N 8491796, TERMINAL, SIZE 10, P/N 31906 REF DES, 2-, 2+, 1+, 1-	2
7	24446	1623-001	NUT	3
8	24446	3662-000	SCREW	3
9	24446	A707DM	GAGE, LOAD METER	1
			END OF FIGURE	



4834 028

Figure 28. Gage, Battery Volt Meter.

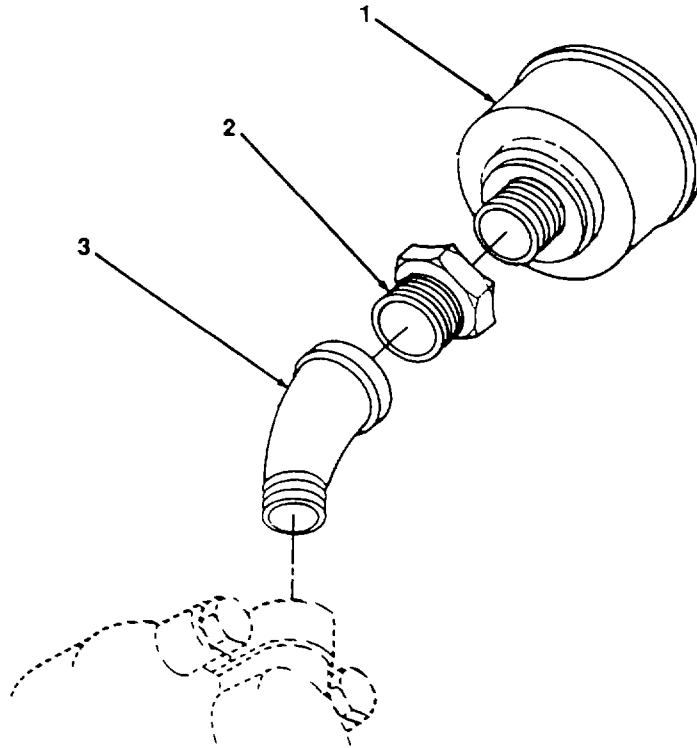
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 06 GAGES AND INSTRUMENTS	
			FIG. 28 GAGE, BATTERY VOLTMETER	
1	24446	41A210382P6	BULB (GE44)	2
2	24446	41B564389G1	SOCKET, LIGHT	2
3			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, P/N 8491796 (72915), REF DES, JU, GLF	2
4	96906	MS51967-03	NUT, HEX, 1/4 IN	2
5	96906	MS27183-10	WASHER, 1/4 IN	2
6			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG P/N 8491796 (72915), TERMINAL, 1/4 IN STUD, 31900 (89110) REF DES, 11CP, 66N, JU	2
7	96906	MS35649-262	NUT, #6	3
8	96906	MS35207	SCREW, MACHINE #6-32	3
9	24446	AF701FK	GAGE, BATTERY VOLTMETER	1
			END OF FIGURE	



4834-029

Figure 29. Gage Service Meter

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 06 GAGES AND INSTRUMENTS	
			FIG. 29 GAGE, SERVICE METER	
1	72715	B491796	LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, P/N 891796, TERMINAL, 14-10 P/N 1434780, REF DES, HMCP HMN	2
2	96906	1623-001	NUT	3
3	96906	3662-000	SCREW	3
4	96906	MS51967-03	NUT, HEX, 1/4 IN	3
5	96906	MS27183-10	WASHER, 1/4 IN	3
6	74400	24507	GAGE, SERVICE METER	1
			END OF FIGURE	



4834-030

Figure 30. Gage, Air Compressor Oil Pressure

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2 3	24047 96906 72423	2009741  1203-250	<p>GROUP 06 GAGES AND INSTRUMENTS</p> <p>FIG. 30 GAGE, AIR COMPRESSOR OIL PRESSURE</p> <p>GAGE, OIL PRESSURE REDUCER, 1/4 TO 1/8 (NSN 4730-00-289-2830) ELBOW, STREET, 450 (NSN 4730-00-844-9480)</p> <p>END OF FIGURE</p>	2 2 2

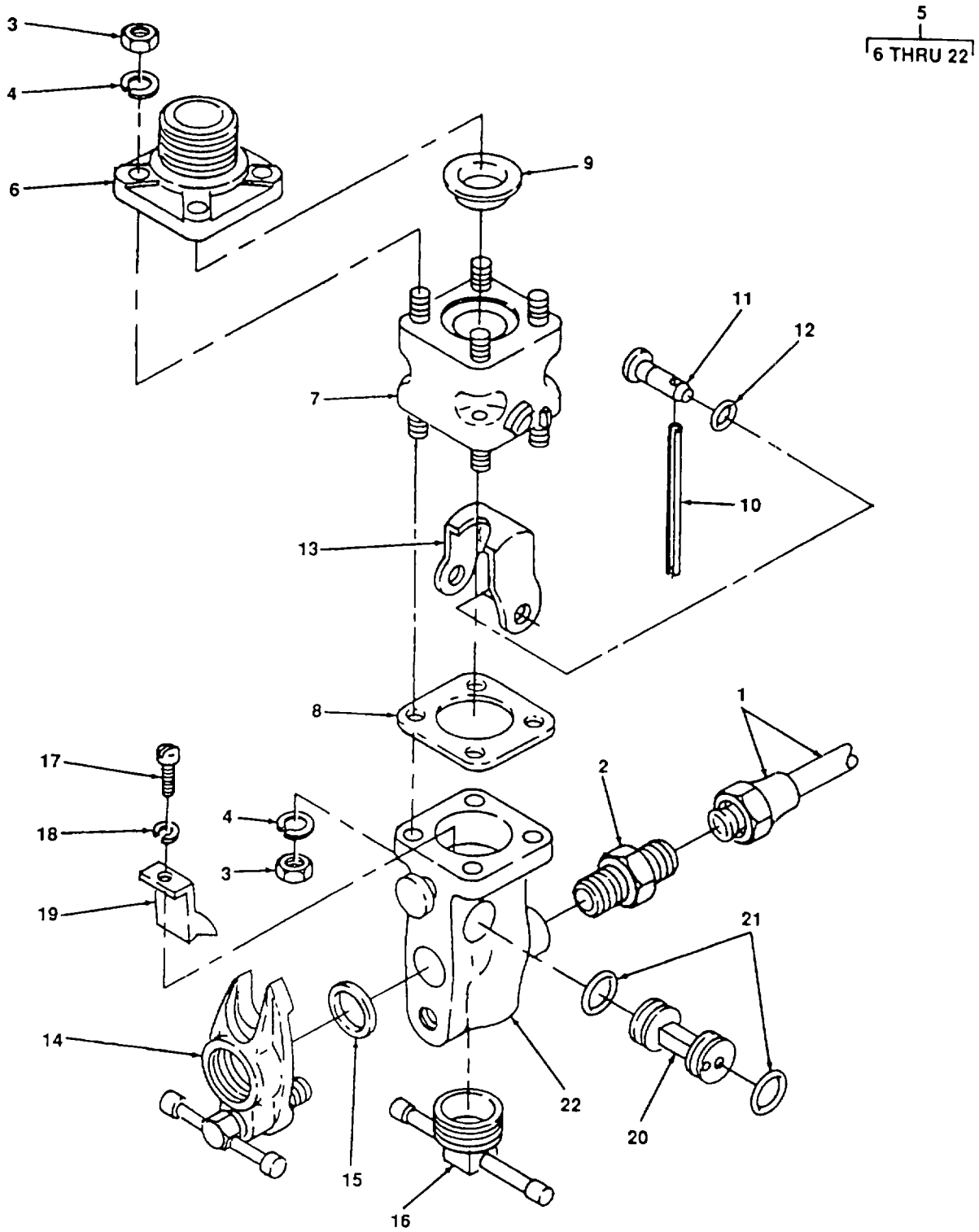
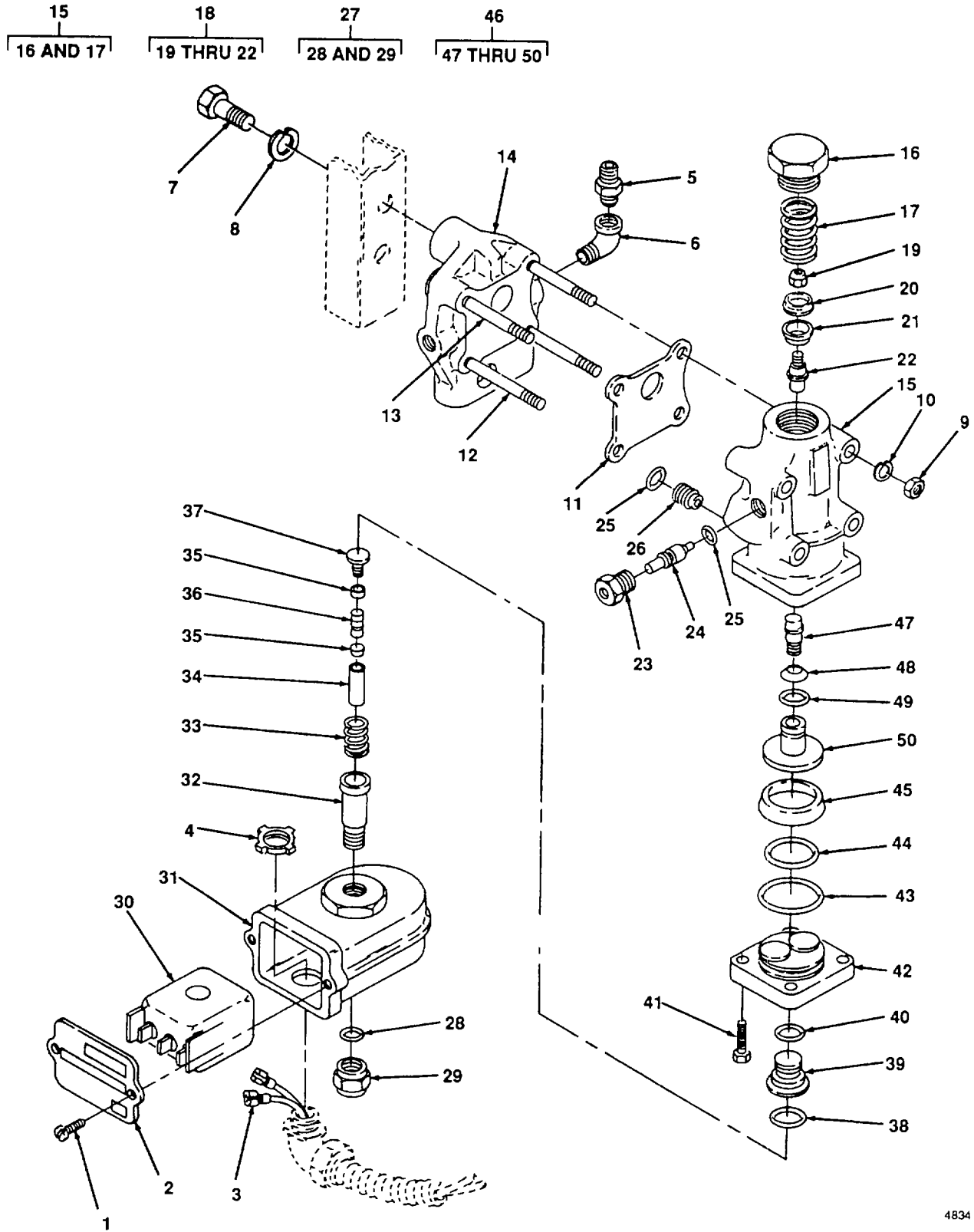


Figure 31. Controller, Sand



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 07 SANDER GROUP	
			FIG. 31 SAND CONTROLLER	
1			AIR LINE FITTING, MAKE FROM, TUBE, COPPER (NSN 47100-0203-3178), 3/8, FITTING, FLARE (NSN 4730-00-128-2739), 3/8	1
2	30327	648F1-2X3-8	ADAPTER, STRAIGHT (NSN 4730-00-408-4583)	1
3	96906	1690	NUT, 3/8-UNC	8
4	96906	1018	WASHER, LOCK, 3/8	8
5	30187	277-2	SAND CONTROLLER	1
6	30187	2614-000	ADAPTER, FLANGE	1
7	30187	2605-000	SAND, SHUTOFF BODY	1
8	30187	2608-000	GASKET	1
9	30187	2603-000	GATE SEAT	1
10	30187	2587-011	PIN, ROLL	2
11	30187	2604-000	PIN, PIVOT	2
12	30187	1084-002-	SEAL	2
13	30187	2602-000	GATE	1
14	30187	673-000	DELIVERY FLANGE ASSY	1
15	30187	2279-000	GASKET	1
16	30187	2611-000	PLUG, PIPE	1
17	96906	1556-000	SCREW	1
18	96906	1552-000	LOCKWASHER	1
19	30187	1788-001	RETAINER CONTROLLER	1
20	30187	1782-000	VALVE SAND CONTROLLER	1
21	30187	1404-001	SEAL	2
22	30187	2601-000	BODY SAND CONTROLLER	1
			END OF FIGURE	

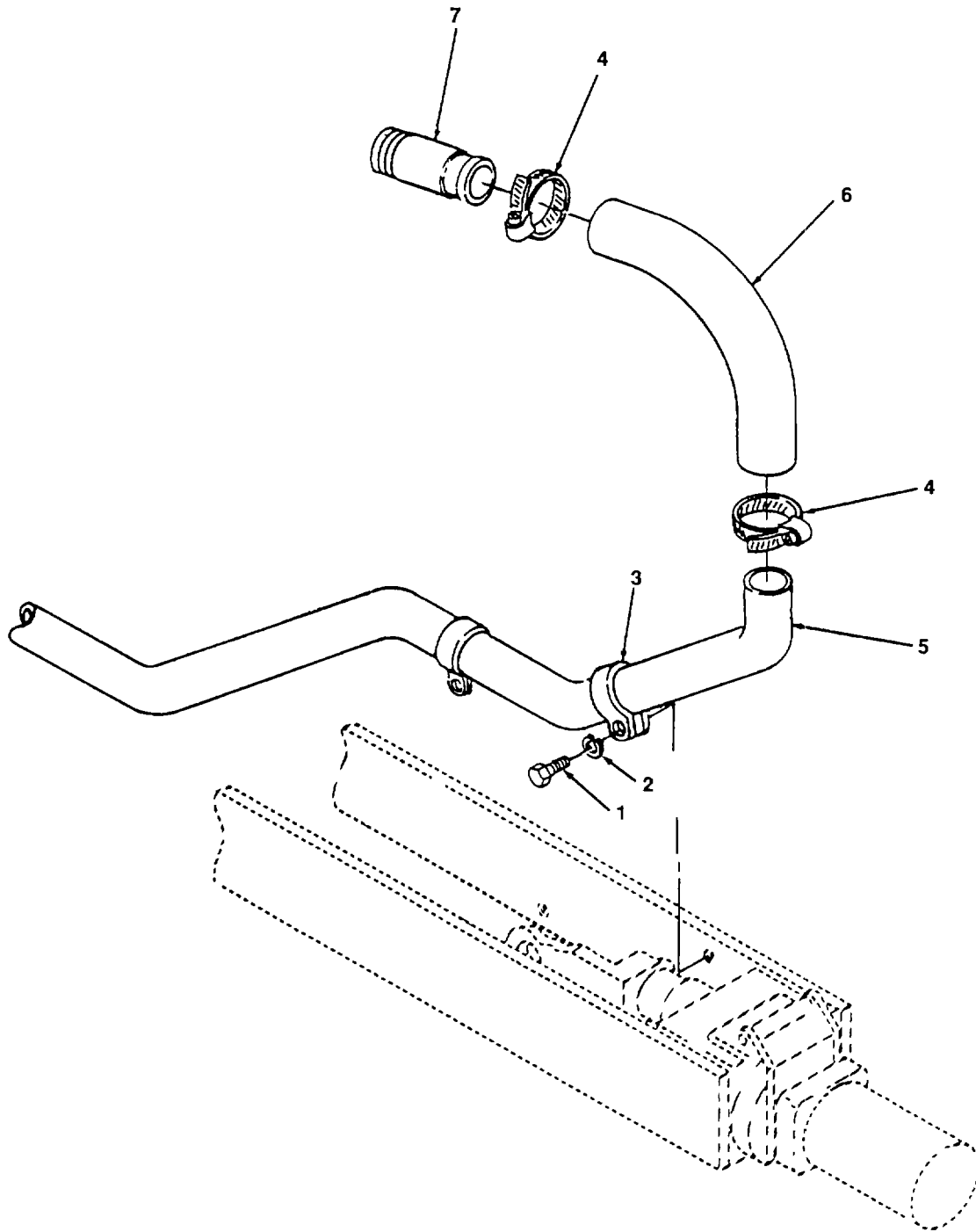


4834 032

Figure 32. Valve, Sander Control

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 07 SANDER GROUP	
			FIG. 32 SANDER CONTROL VALVE	
1	30187	1556	SCREW, MACHINE	2
2	30187	2567-121	COVER	1
3			LEADS, ELECTRICAL, MAKE FROM, WIRE, 14 AWG, P/N 84917968 (72915), TERMINAL, FASTON P/N 640905-1 (8911), REF DES, 1SD11R, 1SD115, N80, N73, N72	2
4	06865	141	CONDUIT NUT	1
5	30327	U1-B4	ADAPTER, STRAIGHT, PIPE TO TUBE, 1/4 IN	2
6	30327	E14A	BRASS ELBOWS (NSN 4730-00-254-6228)	2
7	96906	MS90725-	SCREW, HEX, 3/8 IN	2
8	96906	MS35338-46	WASHER, LOCK, 3/8	2
9	30187	1623-1	NUT, HEX	4
10	30187	1672	WASHER, LOCK	4
11	30187	2608	GASKET	1
12	30187	1468	STUD	2
13	30187	1466	STUD	2
14	30187	1451	BRACKET, MOUNTING	1
15	30187	500-BS-1-32	SAND CONTROL VALVE	1
16	30187	1316	CAP, SPRING	1
17	30187	1314	SPRING	1
18	30187	272	VALVE ASSEMBLY	1
19	30187	1427	LOCKNUT	1
20	30187	1313-A	SEAT WASHER	1
21	30187	2745	VALVE SEAT NEOPRENE	1
22	30187	1416-1	VALVE STEM	1
23	30187	2319	PLUNGER BODY	2
24	30187	2318	PLUNGER	2
25	30187		SEAL	3
26	30187	1818-1	PLUG, STRAINER	1
27	30187	465	EXHAUST NUT ASSEMBLY	1
28	30187	1807	O-RING	1
29	30187	2126	EXHAUST NUT	1
30	30187		FIELD YOKE	1
31	30187		COIL CASE	1
32	30187	1565	COIL POLE	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 32 SANDER CONTROL VALVE (CONT)	
33	30187	1508-1	SPRING	1
34	30187	2319	PLUNGER BODY	1
35	30187	3055	PLUNGER SEAT	1
36	30187	3056	PLUNGER SPACER	1
37	30187	1701	PLUNGER CAP	1
38	30187	2741	SEAL	1
39	30187	2422-2	SOLENOID VALVE BODY	1
40	30187	1763	O-RING (SEAL)	1
41	30187	1824	SCREW, CAP, W/LOCKWASHER	4
42	30187	2421-1	ACTUATING CAP	1
43	30187	1823	SEAL	1
44	30187	2419	O-RING (SEAL)	1
45	30187	1058	RUBBER CUP	
46	30187	270	ACTUATION PISTON ASSEMBLY	1
47	30187	1341-1	PISTON STEM	
48	30187	2745	VALVE	1
49	30187	1404	O-RING (SEAL)	1
50	30187	1340-1	ACTUATING PISTON	1
			END OF FIGURE	



4834-033

Figure 33. Hose Assembly, Sander

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 07 SANDER GROUP	
			FIG. 33 SANDER HOSE ASSEMBLY	
1	96906	MS90725-59	SCREW, 3/8 X 7/8 IN	2
2	96906	MS35338-46	WASHER, LOCK, 3/8 IN	2
3			CLAMP, PIPE, 1 1/2 IN	2
4	96906	MS35842-13	CLAMP, HOSE	2
5			PIPE, BLACK, MAKE FROM, P/N ASTM-A120-84 (72423)	1
6	87722	29089	HOSE	1
7	96906	MS51922-1	NIPPLE, GROOVED, 5 IN LONG, MAKE FROM, PIPE, BLACK, P/N ASTM-A120-84 (72423)	1
			END OF FIGURE	

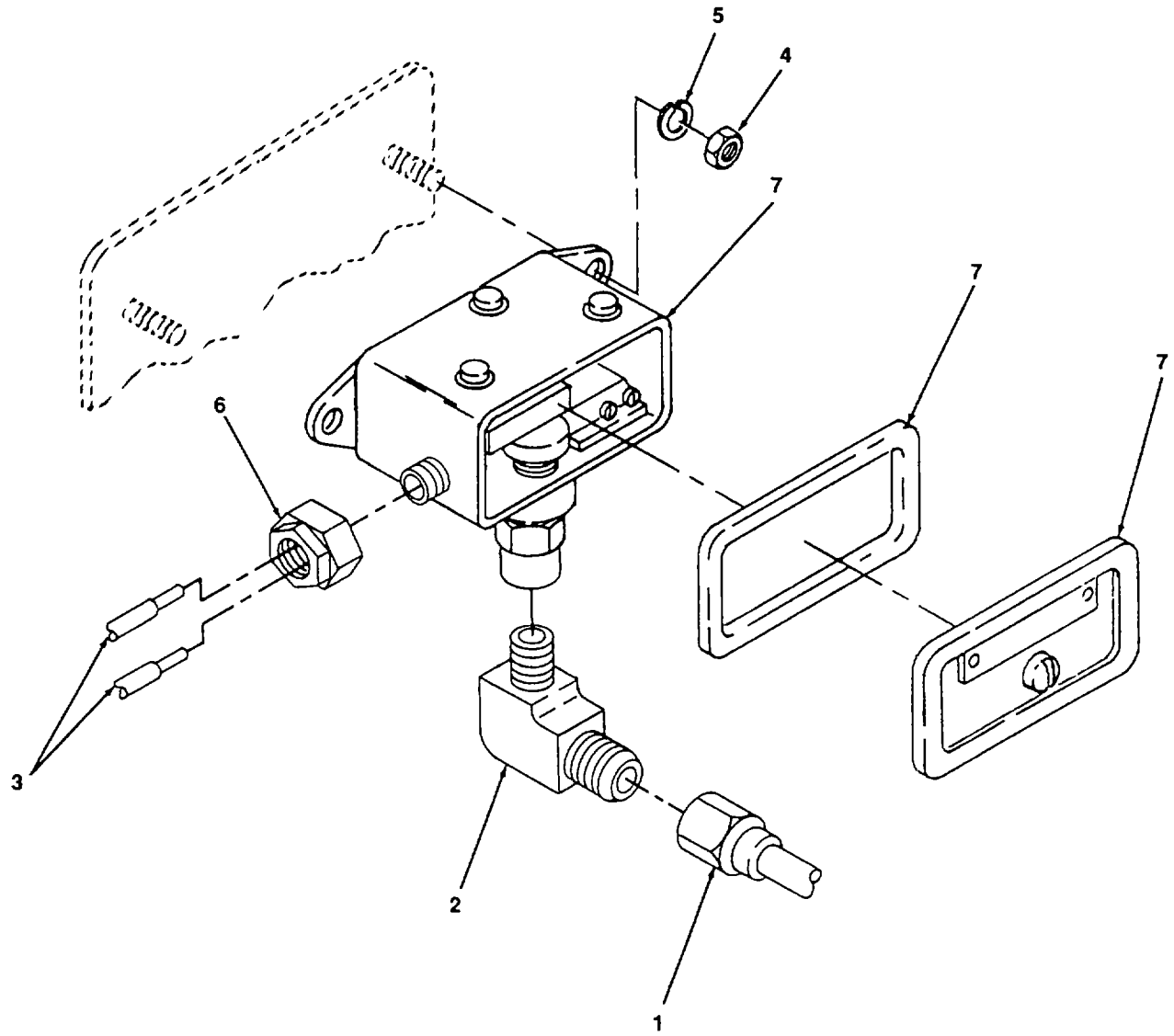


Figure 34. Switch, Emergency Sand Pressure.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 07 SANDER GROUP	
			FIG. 34 SWITCH, EMERGENCY SAND PRESSURE	
1	30327	648F1-2X3-8	ADAPTER, LINE, L 3/8	1
2	20796	7-870	ELBOW, PIPE, 900	1
3	34439		LEAD, ELECTRICAL, MADE FROM, P/N 8491796 REF DES, ESS10K, 27CP	2
4	96906	MS51922-1	NUT, HEX HEAD	2
5	96906	MS35338-44	LOCKWASHER	2
6	19278	11222	BUSHING, ELECTRICAL CONDUIT, 1/2 IN	1
7	19278	223197	SWITCH, CONTROL	1
			END OF FIGURE	



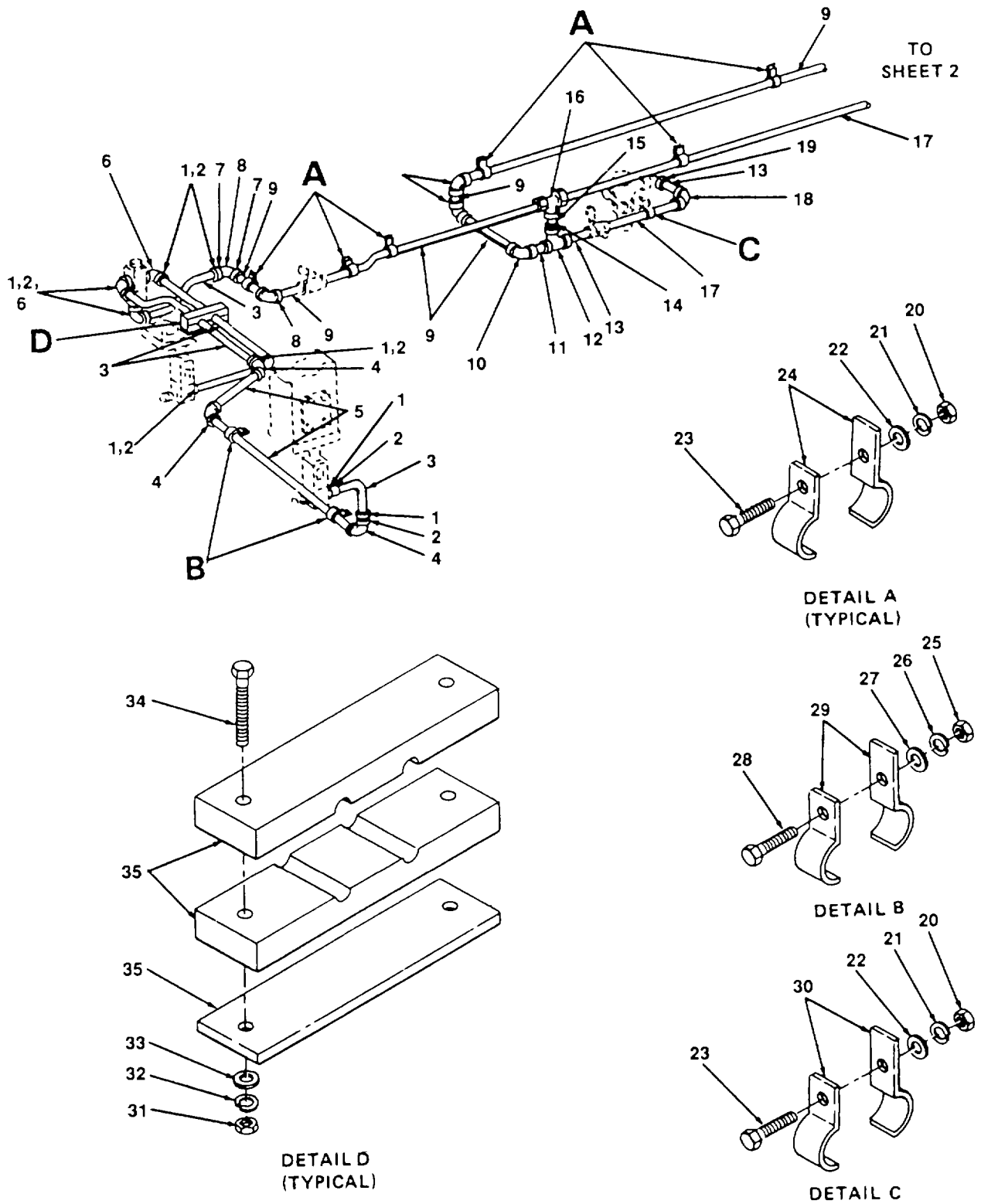


Figure 35. Sand System Piping (Sheet 1 of 2)

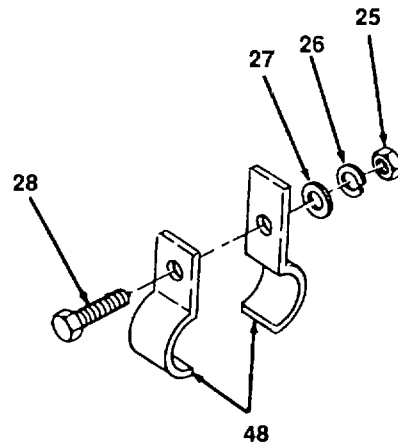
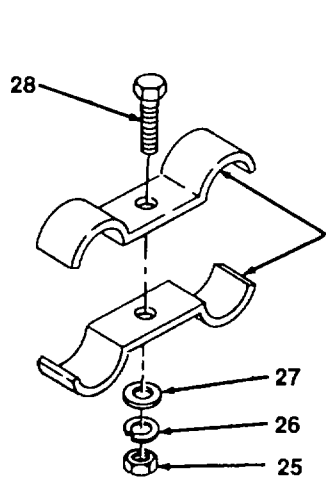
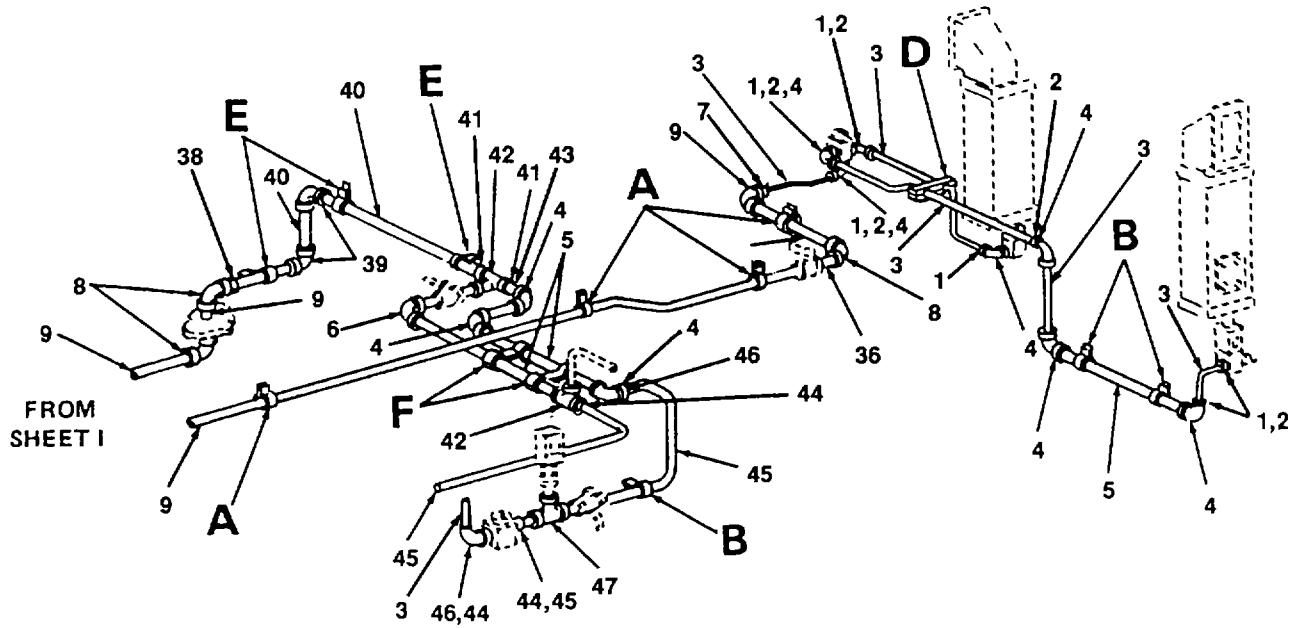
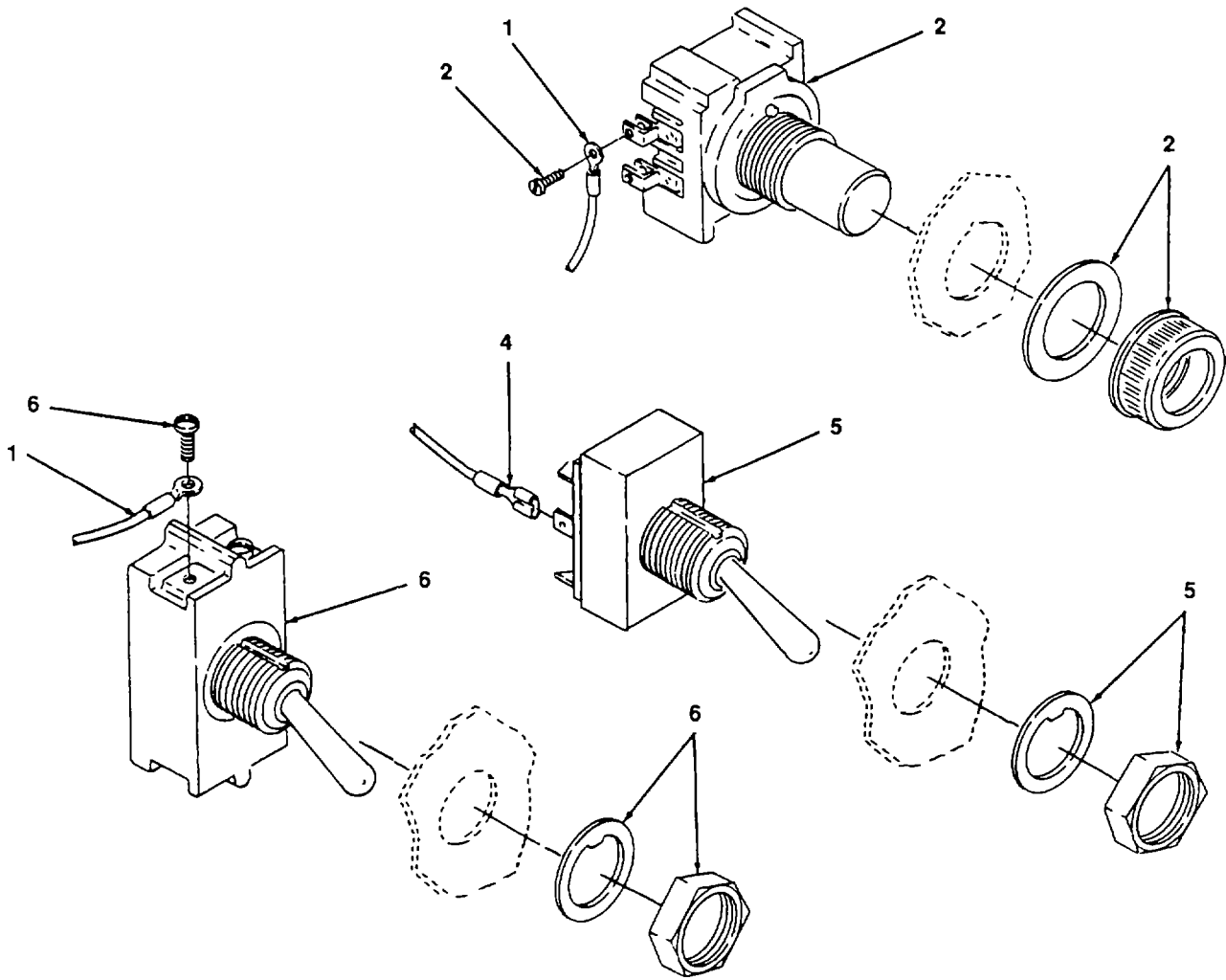


Figure 35. Sand System Piping (Sheet 2 of 2)

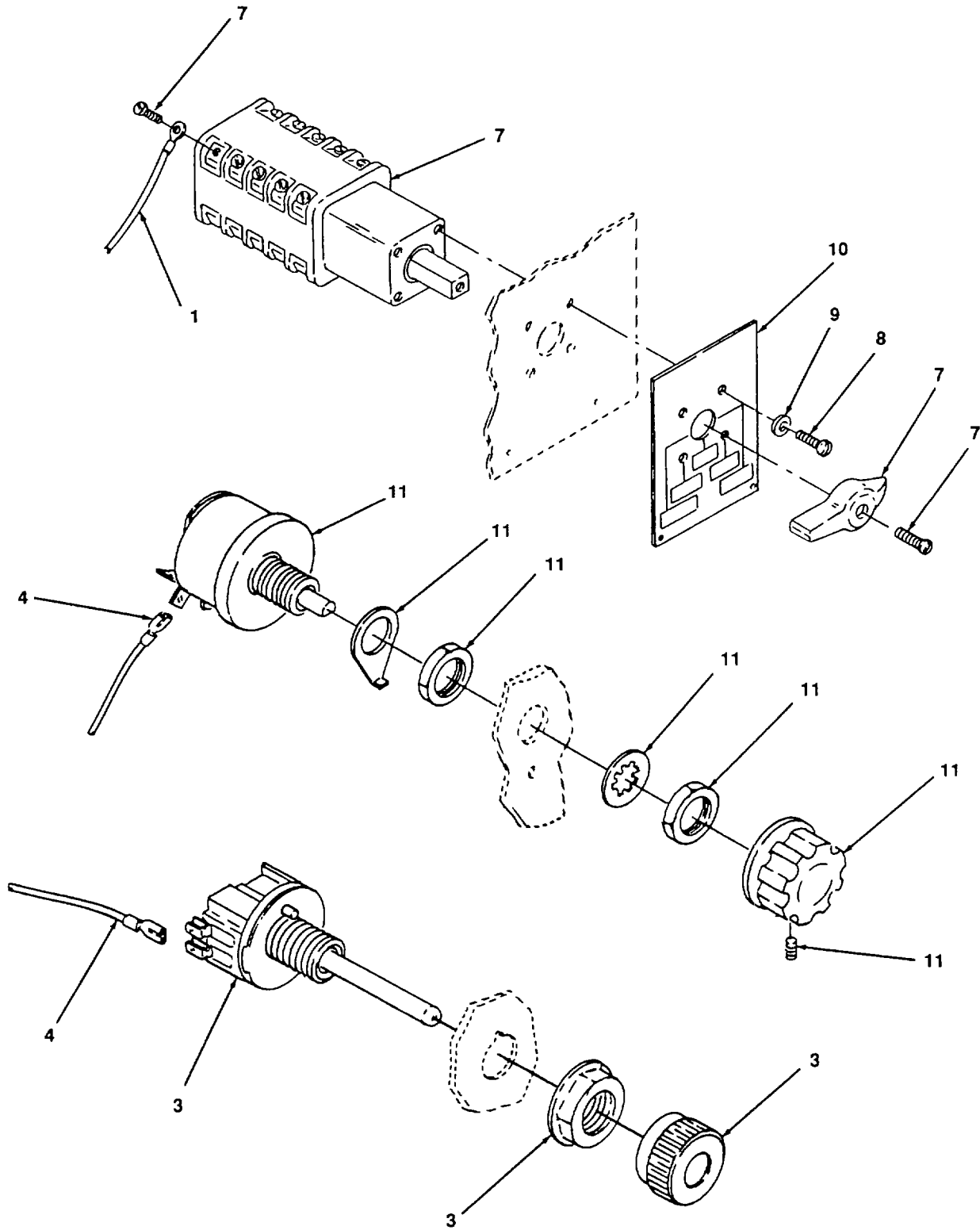
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 07 SANDER GROUP	
			FIG. 35 SAND SYSTEM PIPING	
1	39428	5140K15	UNION, MALE HALF, PIPE TO TUBE, 3/8 IN	14
2	39428	5133K12	NUT, TUBE, FLARE, 3/8 IN	12
3	81346	ASTMB280-83	TUBING, COPPER, 3/8 IN	V
4	72423	1201-060	ELBOW, 900, BLACK, 3/8 IN	9
5	81346	ASTM-A120-84	PIPE, BLACK, SCHEDULE 80, 3/8 IN	V
6	72423	1203-060	ELBOW, STREET, BLACK, THREADED	6
7	72423	2071-148	REDUCER, BUSHING, 3/4 TO 3/8 IN	2
8	72423	1201-150	ELBOW, 90-DEGREE, BLACK, THREADED, 3/4 IN	8
9	81346	ASTM-A120-84	PIPE, BLACK, SCHEDULE 80, 3/4 IN	V
10	72423	1201-199	ELBOW, REDUCING, 1-TO 3/4 IN	1
11	96906	MS51873-121B	NIPPLE, BLACK, CLOSE, 1 IN	1
12	72423	1647-200	TEE, UNION, FEMALE RUN	1
13	96906	MS51873-128B	NIPPLE, BLACK PIPE, 4 IN LONG, 1 IN	1
14	72423	2071-199	REDUCER BUSHING, 1- TO 3/4 IN	2
15	96906	MS51873-106B	NIPPLE, BLACK PIPE, 4 1/2 IN LONG, 3/4 IN	1
16	72423	1547-150	TEE, UNION, FEMALE RUN, 3/4 IN	1
17	81346	ASTM-A120-84	PIPE, BLACK, SCHEDULE 80, 1 IN	V
18	72423	1201-200	ELBOW, 90-DEGREE, THREADED, 1 IN	1
19	82722	578322	FITTING, 90-DEGREE ELBOW, WELD	1
20	96906	MS51967-9	NUT, HEX, 3/8 IN	11
21	96906	MS35338-46	WASHER, LOCK, 3/8 IN	11
22	96906	MS27183-14	WASHER, FLAT, 3/8 IN	11
23	96906	MS90725-64	SCREW, HEX, 3/8 IN	10
24	97403	13228e2146-18	CLAMP, PIPE, SINGLE, 3/4 IN	10
25	96906	MS51967-10	NUT, HEX, 5/16 IN 5	10
26	96906	MS35338-45	WASHER, LOCK, 5/16 IN	5
27	96906	MS27183-12	WASHER, FLAT 5/16 IN	5
28	96906	MS90725-38	SCREW, HEX, 5/16 IN	5
29	97403	13228E2146-25	CLAMP, PIPE, SINGLE, 3/8 IN	5
30	97403	13228E2146-50	CLAMP, PIPE, SINGLE, 1 IN	1
31	96906	MS51967-06	NUT, HEX, 1/4 IN	4
32	96906	MS35338-44	WASHER, LOCK, 1/4 IN	4
33	96906	MS27183-10	WASHER, FLAT, 1/4 IN	4
34	96906	MS90725-	SCREW, HEX, 3/4 IN X 1 3/4 IN	4

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 35 SAND SYSTEM PIPING (CONT)	
35	97403	13228E2146-69	CLAMP SPACER, 3/8 IN	2
36	96906	MS51873-105B	NIPPLE, BLACK, 4 IN LONG, 3/4 IN	2
37	96906	MS51873-61B	NIPPLE, BLACK, 5 IN LONG, 3/8 IN	1
38	72423	2071-149	REDUCER, BUSHING, 3/4- TO 1/2 IN	2
39	72423	1201-100	ELBOW, PIPE, 90-DEGREE THREADED	2
40	81346	ASTM-A120-84	PIPE, BLACK, SCHEDULE 80, 1/2 IN	V
41	72423	2071-099	REDUCER, BUSHING, 1/2- TO 3/8 IN	2
42	72423	1221-100	TEE, BLACK PIPE, THREADED, 1/2 IN	1
43	96906	MS51873-49B	NIPPLE, BLACK THREADED CLOSE	1
44	96906	MS35872-4	NUT, FLARE, 1/2 IN	10
45	04741	55229	TUBING, COPPER, 1/2 IN	V
46	5068K26	39428	UNION, HALF, 3/8 PIPE TO 1/2 IN TUBE	5
47	96905	MS35929-4	TEE, TUBING, FLARE	1
48	97403	13228E2146-53	CLAMP, PIPE, SINGLE, 1/2 IN	3
49	97403	13228E2146-62	CLAMP, PIPE, DOUBLE, 3/8 IN	2
			END OF FIGURE	



4834-036 1

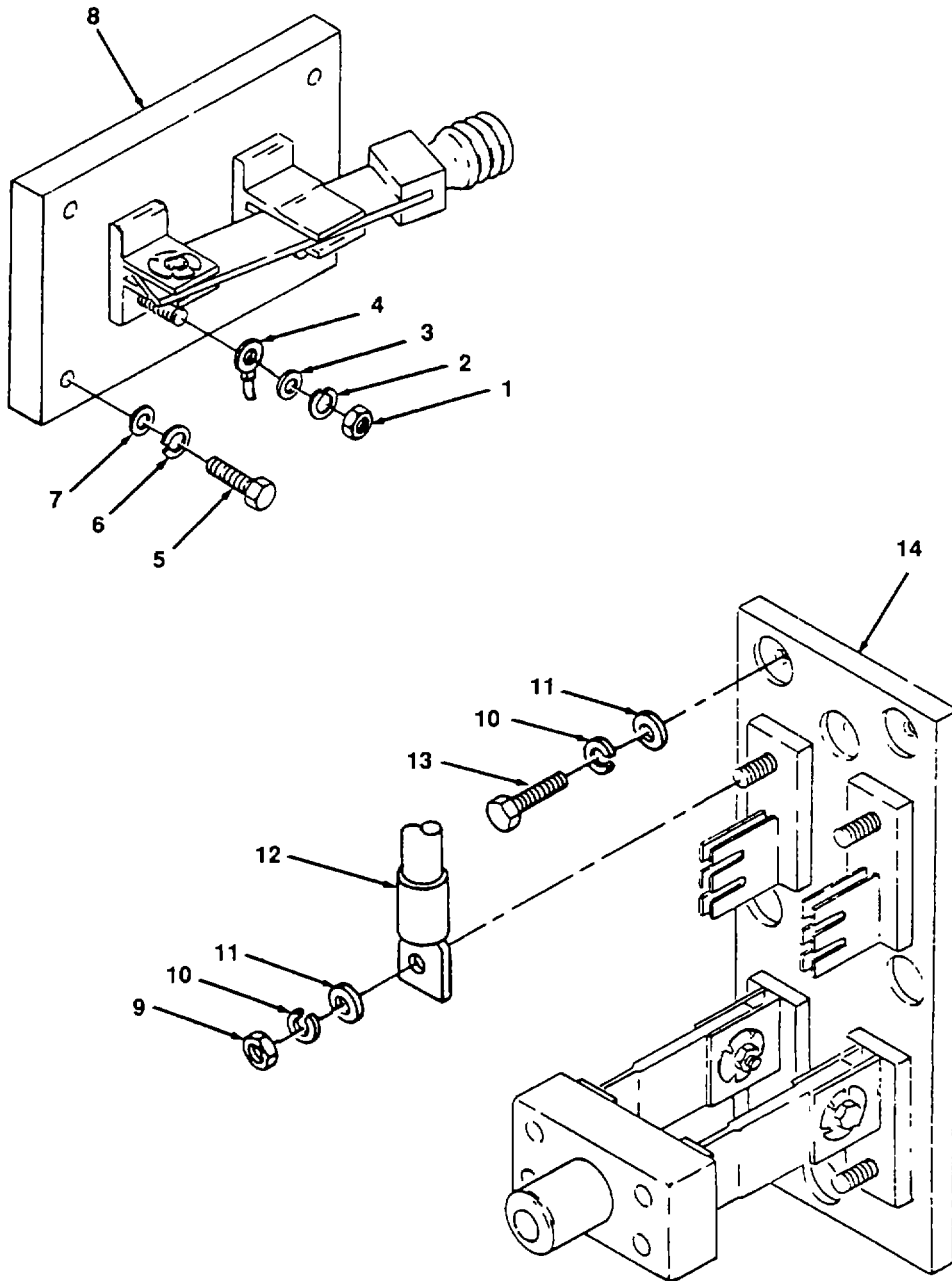
Figure 36. Switches (Sheet 1 of 2).



4834-036 2

Figure 36. Switches (Sheet 2 of 2)

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG 36 SWII CHES	
1			LEAD, ELECTRICAL, MADE FROM, WIRE 14 AWG, P/N 8491796 (72915), TERMINAL, 14-16 STUD, 1/4 IN P/N 31906 (89110) REF DES, IES, HCP, 3J, 4J, ST53V, EK531, EK53P, 1CC16D, MU53X, MU51J, MU51V, MU51A, MU51 R, MU53A	24
2	24446	CR2940VA203B	SWITCH, PUSHBUTTON ASSEMBLY, ENGINE START 1 AND 2	2
3	72915	8295963	SWITCH, WOBBLE STICK ASSEMBLY	1
4			LEAD, ELECTRICAL, MADE FROM, 14 AWG, P/N 8491796 (72915), TERMINAL, 14 AWG, SPADE, P/N A2272 (46522) REF DES, ST53V, EK531, CC535, 1CC61D	11
5	24446	41A30447P1	SWITCH, TOGGLE	2
6	24446	41A205996P4	SWITCH, TOGGLE	2
7	24447	41A212197P1	SWITCH UNIT, HEADLIGHT SET-UP, ROTARY	1
8	96906	MS35206	SCREW #6	4
9	96906	MS27183-6	WASHER, LOCK #6	4
10	24446		PLATE, SWITCH ROTARY	1
11	72915	8237523	RHEOSTAT, GAGE LIGHT DIMMER	1
			END OF FIGURE	



4834-037

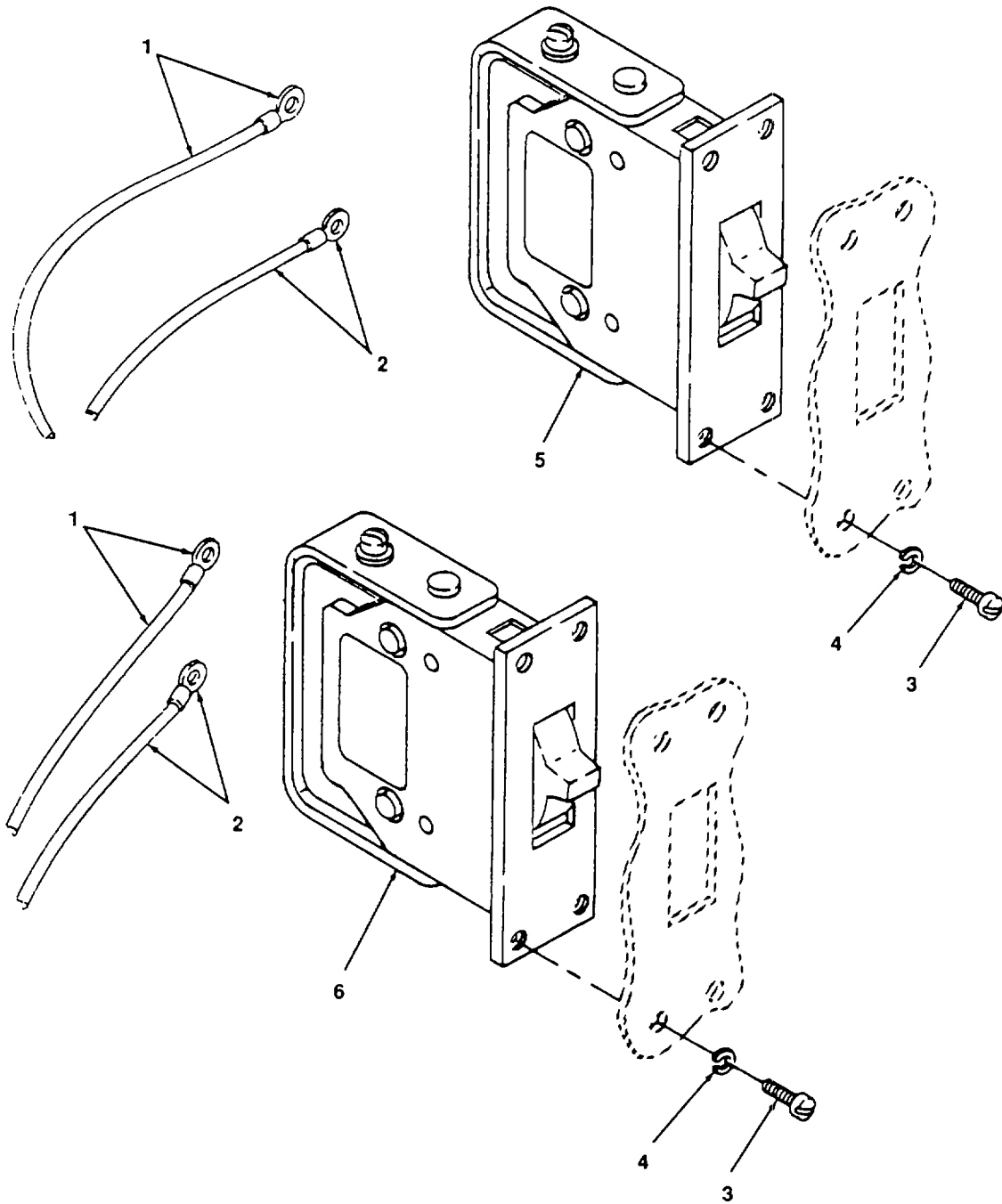
Figure 37. Knife Switches



## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG 37 KNIFE SWITCHES	
1	96906	MS51967-03	NUT, HEX, 1/4 IN	2
2	96906	MS35338-44	WASHER, LOCK, 1/4 IN	2
3	96906	MS27183-10	WASHER, FLAT	2
4			LEAD, ELECTRICAL, MAKE FROM, WIRE 14 AWG, P/N 8491796 (72915), TERMINAL, 14-16, 1/4 IN STUD P/N 31906 (89110) REF DES, GD, N53, N54	2
5	96906	MS90725-39	SCREW, HEX, 5/16 X 1 3/4 IN	4
6	96906	MS35338-45	WASHER, LOCK, 5/16	4
7	96906	MS27183-12	WASHER, FLAT, 5/16	4
8	24446	41A260616P1	SWITCH, KNIFE, SINGLE, GROUND RELAY CUTOUT, REF DES, GRCO	1
9	96906	MS51967-09	NUT, HEX, 3/4 IN	4
10	96906	MS35338-46	WASHER, LOCK, 3/8 IN	8
11	96906	MS27183-14	WASHER, FLAT, 3/8 IN	8
12			CABLE, 3/0 W/3/8 STUD, REF DES, BY, BX, PO, BN	4
13	96906	MS90725-66	SCREW, HEX, 3/8 X 2 IN	4
14	24446	41 B511393P1	SWITCH, KNIFE, DOUBLE, BATTERY, REF DES,BS	1
			END OF FIGURE	



4834-038

Figure 38. Circuit Breakers

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG. 38 CIRCUIT BREAKER	
1			LEAD, ELECTRICAL, MAKE FROM, 12 AWG STD., MADE FROM; P/N 8491798 (72195), REF DES; CP53G, TERMINAL, STUD 12, AWG 5/16 P/N 8491798 (59400)	2
2			LEAD, ELECTRICAL, MAKE FROM, 14 AWG STD, TERMINAL, 16-14 AWG, 1/4 IN, P/N 31906 (89110) MADE FROM, P/N 8491796 (72195), REF. DES, JU4P2	2
3	96906	MS35206-	SCREW, PAN HEAD, MACHINE 6-32 X 1 IN	8
4	96906	MS35338-44	WASHER, LOCK, 1/4 IN	8
5	24446	41B544907P9	BREAKER, CIRCUIT, 50 AMP	1
6	24446	41B544907P2	BREAKER, CIRCUIT, 25 AMP	1
			END OF FIGURE	

3  
4 THRU 7

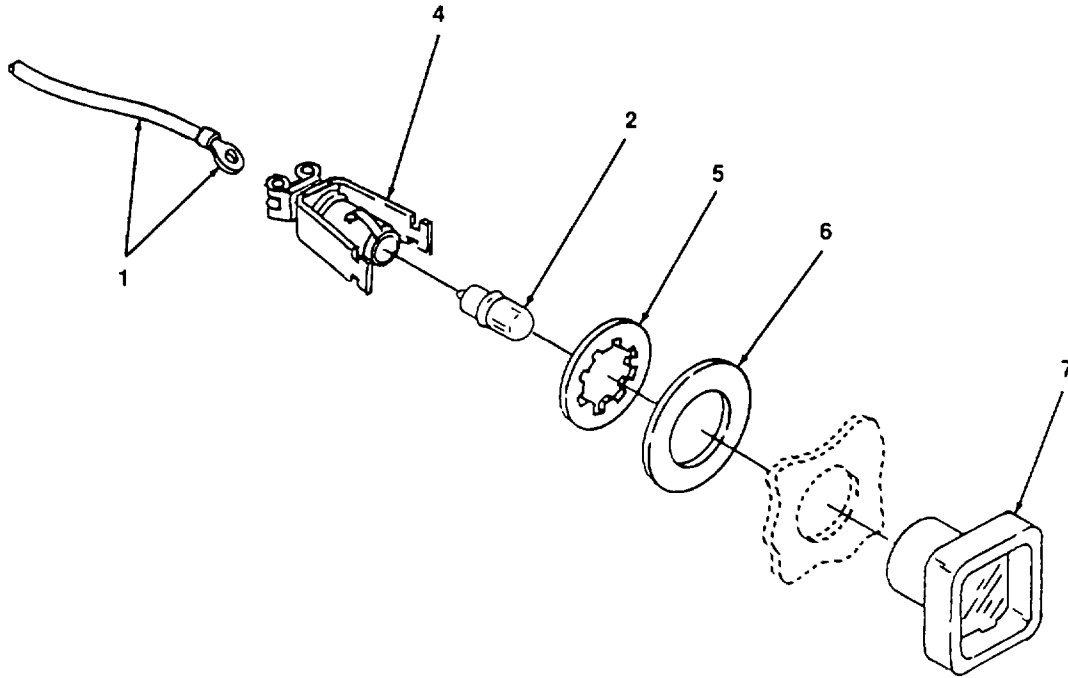
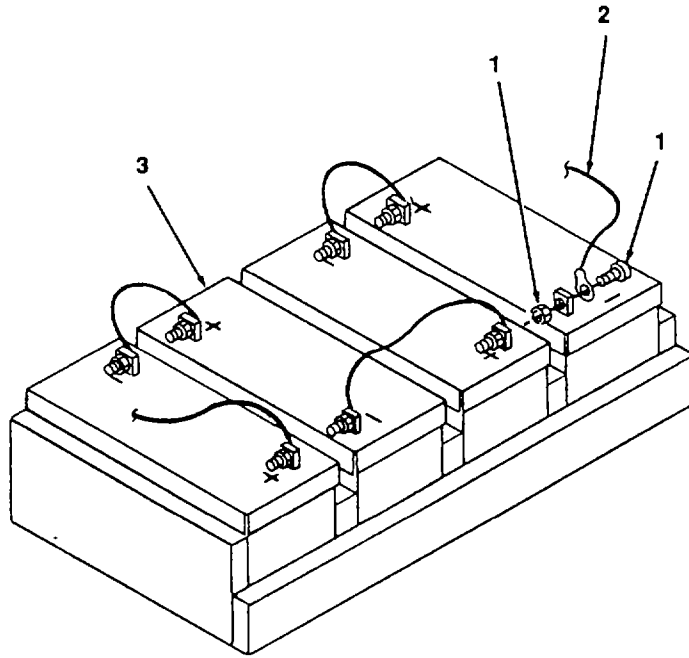


Figure 39. Indicator Light.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG. 39 LIGHT INDICATOR, GROUND RELAY AND WHEEL SLIP	
1	72915		LEAD, ELECTRICAL, 14 AWG STD, MADE FROM, PN 8491796, TERMINAL, SPADE, 16-14 AWG, (P/N 640905)	2
2	24446	41A300500G1	73N(-) (J) GLAA, GND TO SLIP	1
3	24446	41B564389G1	73N(+) P/N 17LV66AA19 (24446)	1
4	24446	827294	BULB (GE44)	1
5	24446		SOCKET, LIGHT INDICATOR ASSEMBLY (WSL1, GRL1)	1
6	24446		SOCKET, LIGHT	1
7	24446		NUT, MOUNTING PUSH ON	1
			WASHER, FLAT	1
			LENS, INDICATOR LIGHT	1
			END OF FIGURE	



4834-040

Figure 40. Batteries and Connections.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1	24446	8077275	GROUP 08 ELECTRICAL ACCESSORIES	
2			FIG. 40 STORAGE BATTERIES, CONNECTIONS	
			BOLT ASSEMBLY, CONNECTOR	8
			LEAD, ELECTRICAL, MAKE FROM, 3/0 CABLE, BY(-), BX(+)	5
3	24446	8HHG25	TERMINAL, 3/0 WITH 3/8 STUD, P/N 89110325513	8
			BATTERY	4
			END OF FIGURE	

1  
2 THRU 6

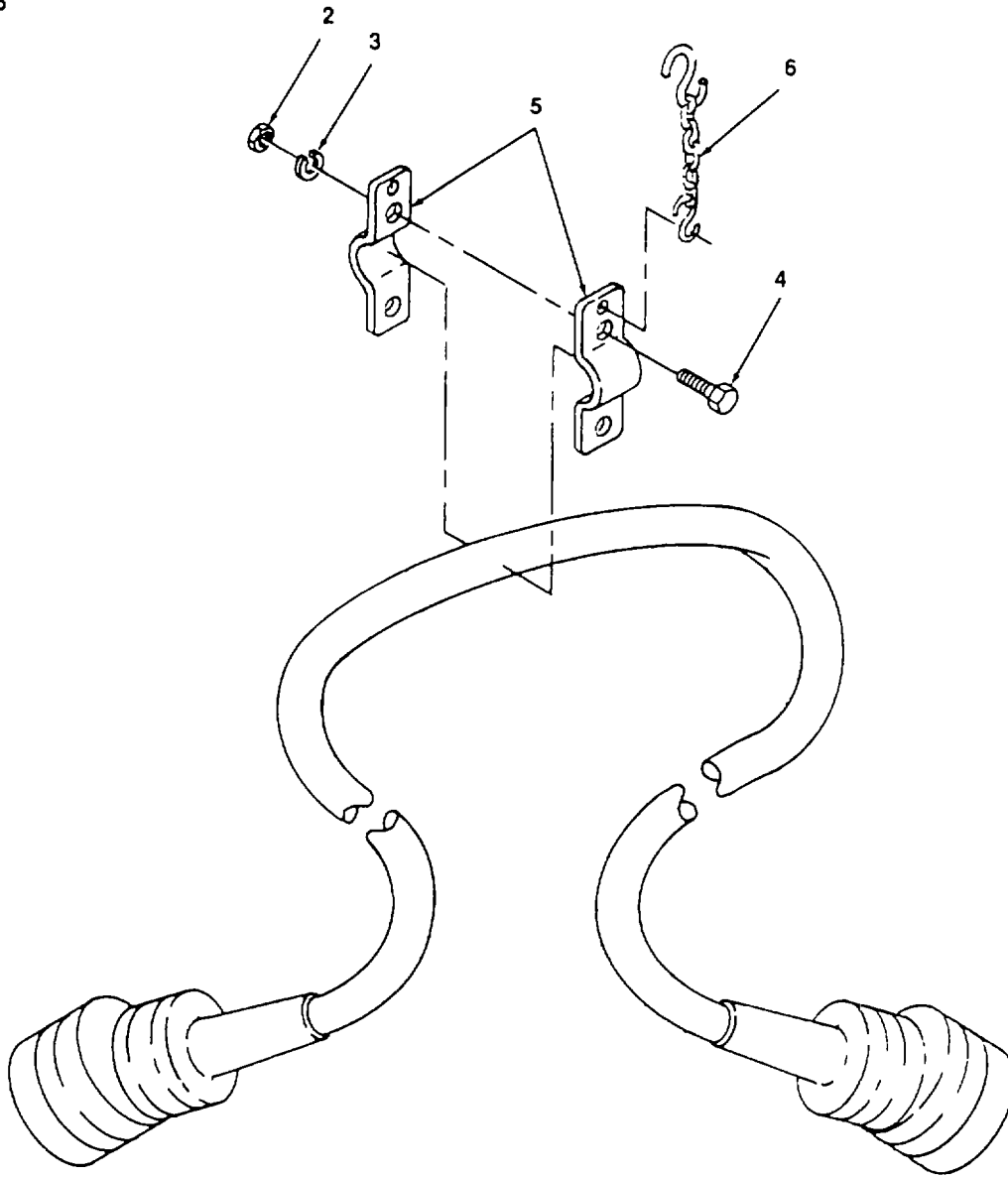


Figure 41. Jumper, Multiple Unit Control



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG. 41 JUMPER, MULTIPLE-UNIT CONTROL	
1	24446	332B255G55	JUMPER, CABLE ASSEMBLY	2
2	96906	MS51967-09	NUT, HEX, 3/8-16-UNC	2
3	96906	MS35338-45	WASHER, 3/8	2
4	96906	MS90725-66	SCREW, CAP, 3/8-16-UNC	2
5			CLAMP, JUMPER	1
6			CHAIN AND HOOKS	1
			END OF FIGURE	

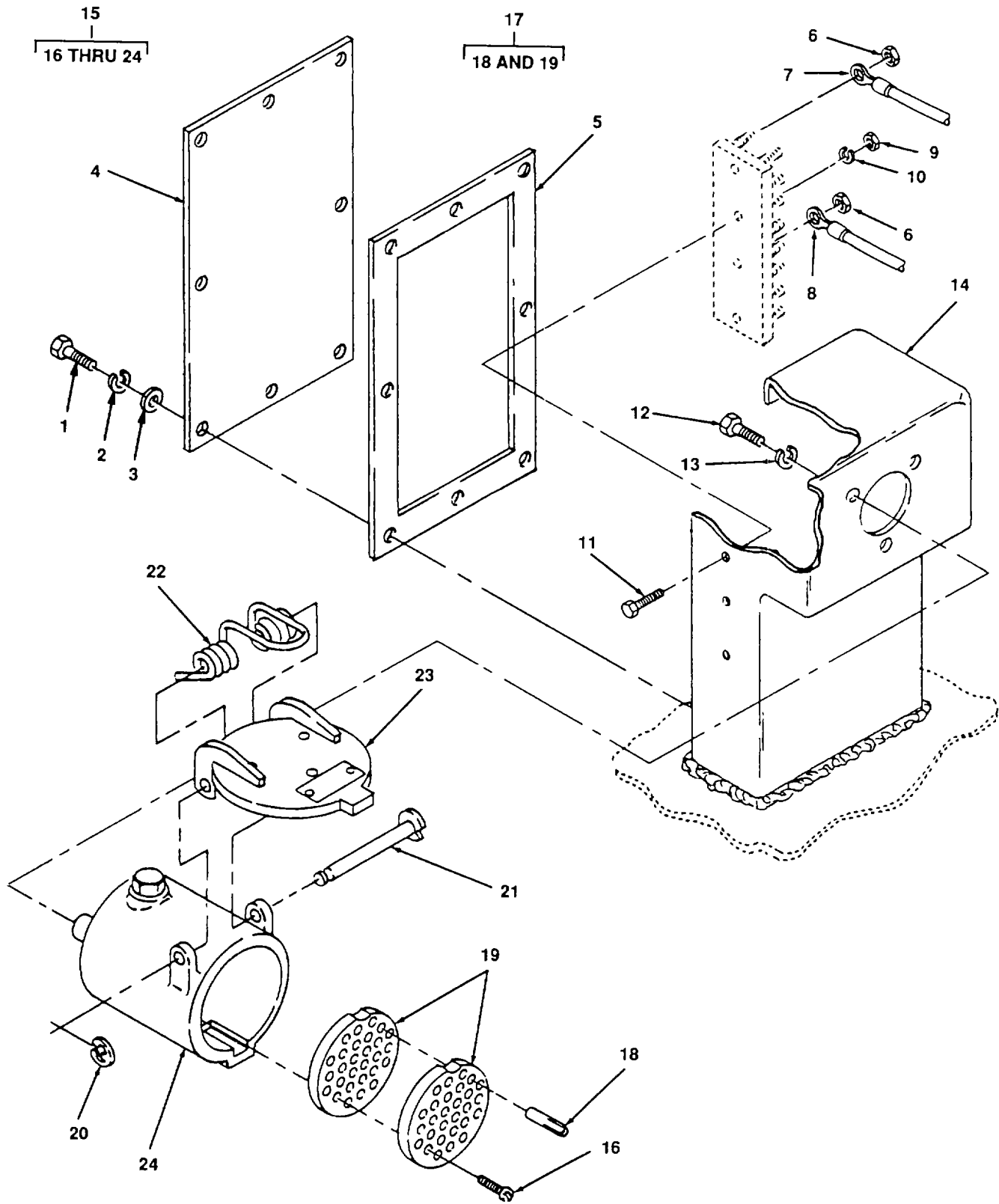
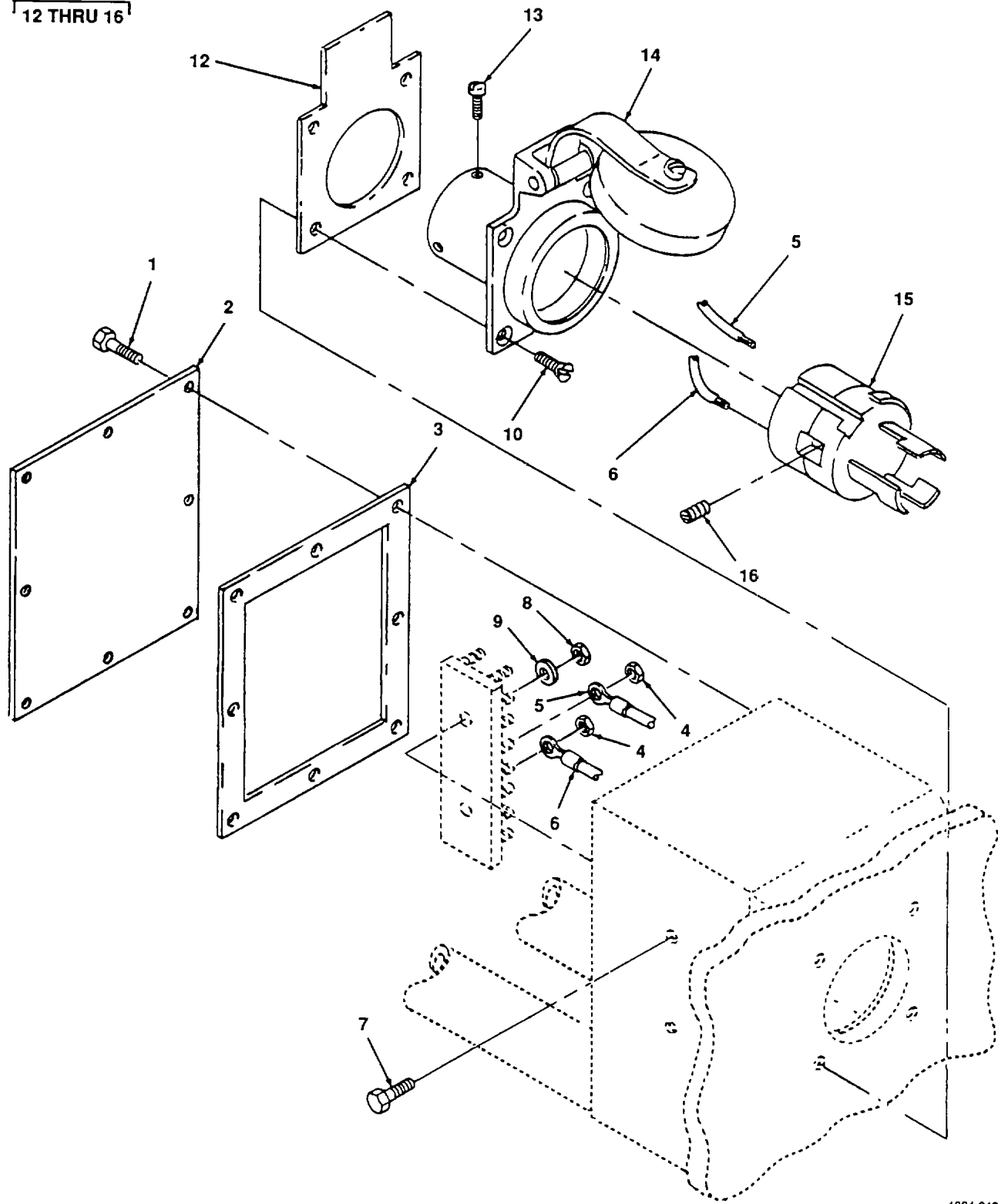


Figure 42. Receptacle, Multi-Unit

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG. 42 RECEPTACLE, MULTIPLE-UNIT	
1	96906	MS-90725-34	SCREW, HEX HEAD, CAP 3/8-18 X 75	8
2	96906	MS-35338-45	WASHER, LOCK 313	8
3	96906	MS-27183-12	WASHER, FLAT 313 ROUND	8
4	51225	57-0243	COVER, REAR	1
5	51225	57-0244	GASKET, REAR COVER	1
6	07858	830288	NUT, LOCKING	16
7			LEAD, ELECTRICAL, MAKE FROM, 14 AWG STD P/N 8491796 (72915), TERMINAL, 14-16 AWG STUD #10, P/N 31906 (89910) REF DES, (TB #17), MUF17A, MUF17B, MUF17C, MUF17D, MUF17E, MU17F, MUF17G, MUF17H, MUF17J, MUF17K, MUF17L, MUF17M, MUF17N, MUF17P, MUF17R (TB #18), MUR18A, MUR18B, MUR18C, MUR18D, MUR18E, MUR18F, MUR18G, MUR18H, MUR18J, MUR18K, MUR18L, MUR18M, MUR18N, MUR18P, MUR18R	32
8			LEAD, ELECTRICAL, MAKE FROM, 12 AWG STD, P/N 8491798 (72915), TERMINAL, STUD, 12-1/4 P/N 0X844617 (59400) REF DES, (TB #17), 17A10A, 17B1 OB, 17C10C, 17D10D, 17E10E, 17F10F, 17G10G, 17H10H,17J10J, 17K10K, 17L10L, 17M10M, 17N10ON, 17P10OP, 17R10OR (TB #18), 18A10A, 18B10B, 18C10C, 18D10OD, 18E10OE, 18F10F, 18G10G,18H10H, 19J10J, 18K10K, 18L10OL, 18M10M,18N10N, 18P10P, 18R10R	32
9	96906	MS51922-1	NUT, LOCKING, 25-20 X 75	4
10	96906	MS27183-10	WASHER, FLAT, 25 ROUND	4
11	96906	MS35206-283	SCREW, PAN HEAD	4
12	96906	MS90725-60	SCREW, HEX-HEAD, CAP, 3/8 X 1 IN	3
13	96906	MS35338-45	WASHER, LOCK, 3/8	3
14	51225	57-0242	HOUSING, MULTI-UNIT	1
15	51225	332B562G31	HOUSING, RECEPTACLE ASSEMBLY	1
16	96906		SCREW, PAN HEAD	3
17	24446		PIN ASSEMBLY	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 42 RECEPTACLE, MULTIPLE-UNIT (CONT)	
18	24446		PIN, ELECTRICAL LEAD CONNECT	16
19	96906		PLATE, INSULATOR	2
20	24446		RING, SNAP	1
21	24446		SHAFT, HOUSING COVER	1
22	49367	WWR7	SPRING, HOUSING COVER	1
23	49267	WWR5	COVER, HOUSING	1
24	24446		HOUSING, RECEPTACLE	1
			END OF FIGURE	

11  
12 THRU 16



4834 043

Figure 43. Receptacle, Engine Heater

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 08 ELECTRICAL ACCESSORIES	
			FIG 43. RECEPTACLE, ENGINE HEATER	
1	96906	MS-24617	SCREW, SHEETMETAL, PAN HEAD #10	8
2	07858	57-0270-1	COVER, BACK	1
3	07858	57-0270-2	GASKET	1
4	07858	830288	NUT, HEX, SELF LOCKING, 1/4 IN	4
5			LEAD, ELECTRICAL, 12 AWG STD, MADE FROM, P/N 849176 (72915), TERMINAL, 1/4 IN STUD, 31900 (89110) REF DES, (TB37), IER37A, IER37B, IER37C, EH37A, EH37B, EH37C, (TB38), 2ER38A, 2ER38B, 2ER38C	2
6			LEAD, ELECTRICAL, 6 AWG STD, MADE FROM, P/N 9326091 (72915), TERMINAL, 1/4 IN STUD P/N 31900 (89110), REF DES, 37A38A, 37B38B,37C38C	2
7	96906	MS35206-283	SCREW, PAN HEAD	2
8	96906	MS51922-1	NUT, LOCKING 25-20 X 75	2
9	96906	MS27183-10	WASHER, FLAT, 25 ROUND	2
10	96906	24616	SCREWS, FLAT HEAD, #10	4
11	07858	63CR72	RECEPTACLE, ENGINEHEATER ASSY	2
12	07858		GASKET	1
13	07858		SCREW	3
14	07858		RECEPTACLE, HOUSING	1
15	07858		RECEPTACLE	1
16	07858		SCREW, SET	3
			END OF FIGURE	

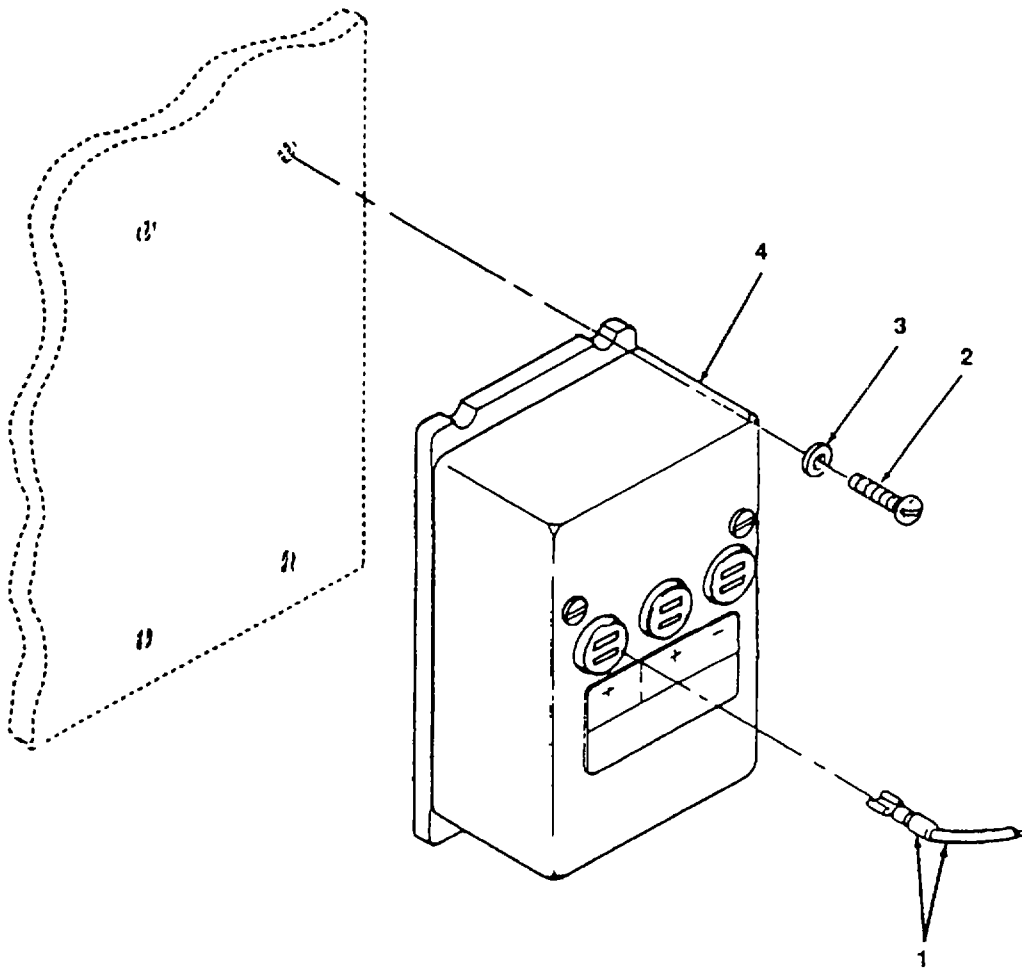


Figure 44. Timer

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1			GROUP 09 ELECTRICAL ACCESSORIES FIG. 44 TIMER LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG P/N 8491796 (72915) TERMINAL, SPADE 16-14 AWG, P/N 640905 (89110) REF DES TF1, TCP, TN1	
2	96906	MS35206-8	SCREW, PAN HEAD (10-32 X 1 IN )	4
3	96906	MS27183-8	WASHER, FLAT #10	4
4	30187	872-32	TIMER	1
			END OF FIGURE	



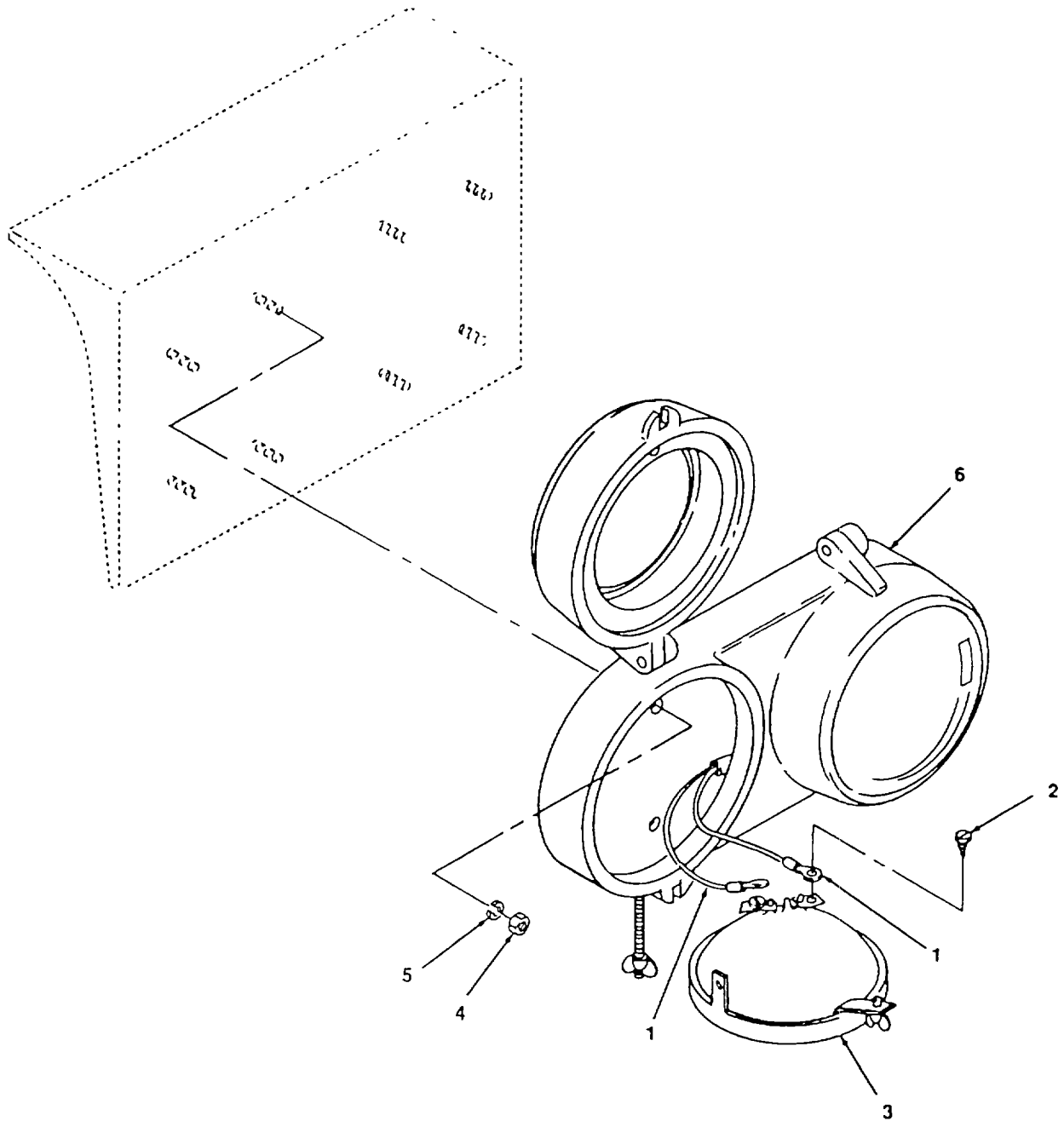
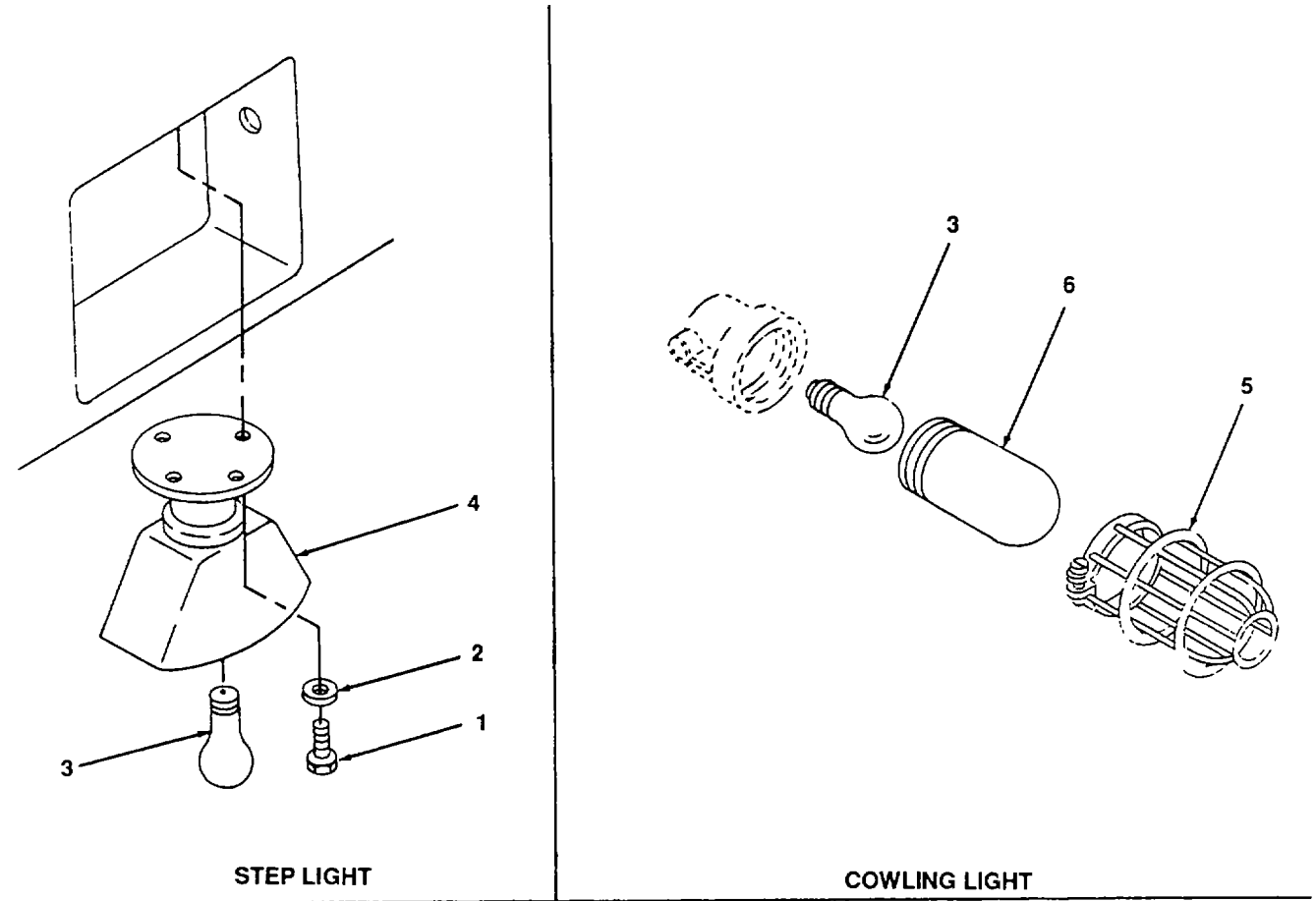


Figure 45. Headlamps

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1			GROUP 09 LIGHT GROUP FIG. 45 HEADLAMP LEADS, ELECTRICAL, MAKE FROM, 14 AWG, 8491796 (72915) AND TERMINAL LUG P/N 31906 (89110), REF DES, (1) F (+) HL19A (-) N66 W/J TO #2 (-), (2) F (+) 2HL19C (-), (1) R (+) 1HL20A (-) N70 W/J TO #2 (+), (2) R (+) 2HL20C (-)	4
2	96906	MS35206-	SCREW, #10	2
3	01857	RC-14585-ED	BEAM, SEALED	2
4	96906	MS51967-06	NUT, 5/16 IN	8
5	96906	MS35338-45	WASHER, LOCK, 5/16 IN	8
6	TransLite Inc	14585-ED	FRAME, HEADLIGHT ASSEMBLY	2
			END OF FIGURE	



CAB LIGHT

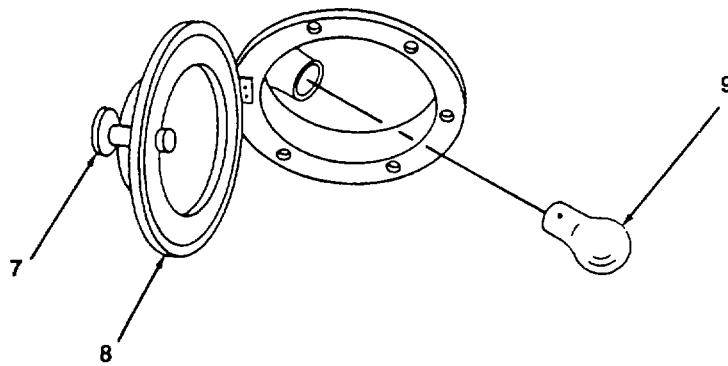
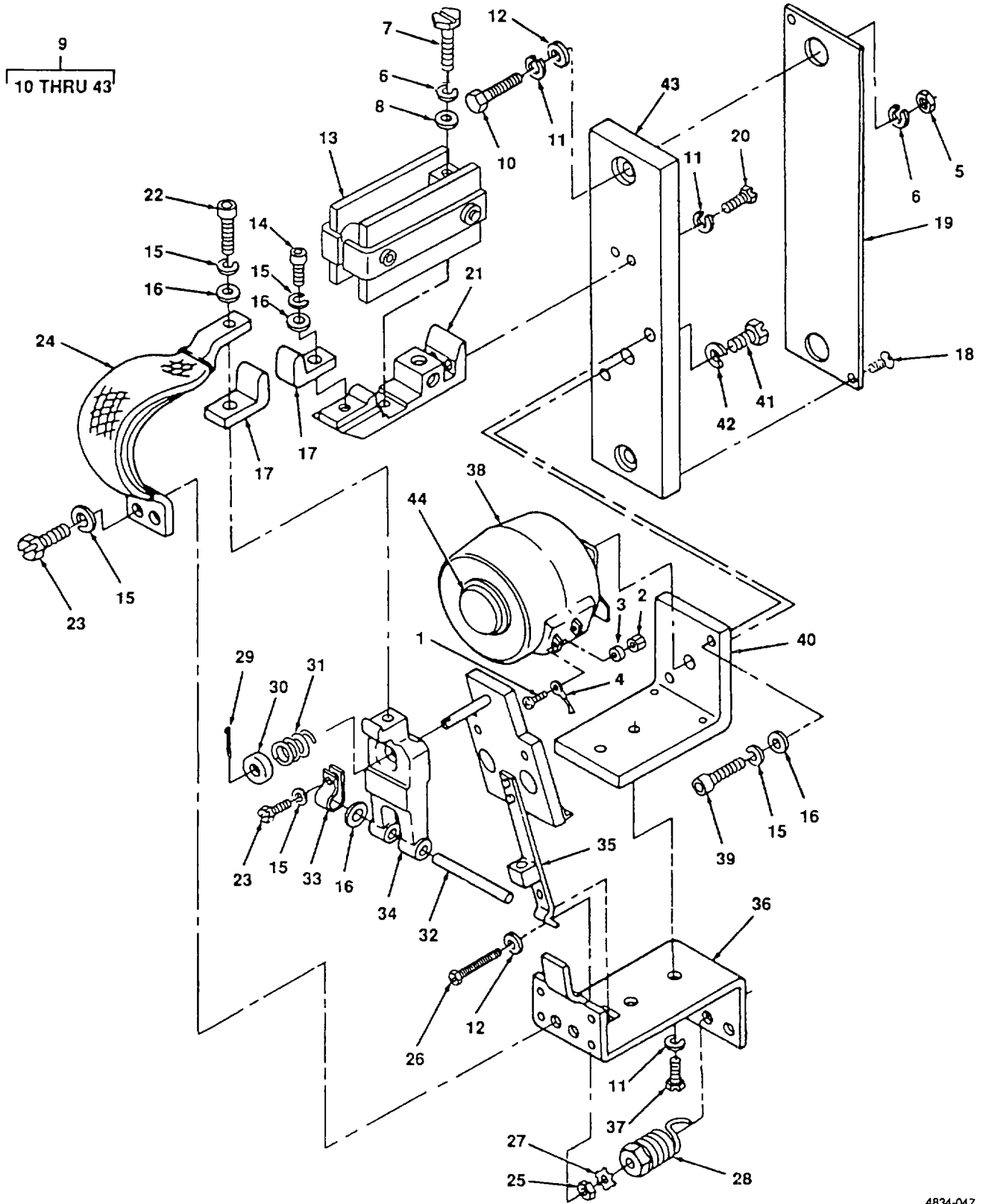


Figure 46. Lights, Step, Cowling and Cab

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 09 LIGHT GROUP	
			FIG. 46 LIGHTS, STEP, COWLINGS, CAB, AND CABINET	
1	96906	MS90715-64	SCREW, HEX, 3/8 X 1 1/2 IN LONG	16
2	96906	MS27183-14	WASHER, FLAT, 3/8 IN	16
3	35321	SYL11654	LIGHT BULB	4
4	24446	41A200358P1	STEP LIGHT	4
5	72915	8047227	WIRE, GUARD	4
6	72915	8004613	GLASS, GLOBE	4
7	24446		SCREW	3
8	24446	41A205337P2	RECEPTACLE	3
9	24446	1229	LIGHT BULB	3
			END OF FIGURE	



4834-047

Figure 47. Contactor, Field Shunt

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 CONTROLS, ELECTRICAL GROUP	
			FIG. 47 CONTACTOR, FIELD SHUNT	
1	96906	MS27617-8	SCREW, #10, 3/8 IN LONG	2
2	96906	MS35649-202	NUT, #10	2
3	96906	MS35338-8	WASHER, LOCK, #10	2
4			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG P/N 8491796 (72915) AND TERMINAL LUG P/N 31906 (89110), REF DES, N58, N59, N60, N62, N69, N64, CCF, 1CCF, 2CCF, 3CCF	10
5	96906	MS51967-09	NUT, 3/8 IN	2
6	96906	MS35338-46	WASHER, LOCK, 3/8 IN	2
7	96906	MS90725	SCREW, HEX-HEAD, 3/8 X 1 3/4 IN	2
8	96906	MS27183-14	WASHER, FLAT, 3/8 IN	2
9	24446	17CM53B9	FIELD, SHUNT CONTACTOR, REF DES, FS1, FS2, FS3, FS4	4
10	96906	MS90725-14	SCREW, HEX-HEAD, 1/4 IN, 2 IN LONG	2
11	96906	MS35338-44	WASHER, LOCK	3
12	96906	MS27183-10	WASHER, FLAT	2
13	80971	2744700G3	ARC, CHUTE	1
14	80971	N170P23016B	SCREW, CAP, SOCKET-HEAD	1
15	96906	MS35338-45	WASHER, LOCK, 5/16 IN	8
16	96906	MS27183-12	WASHER, FLAT, 5/16 IN	8
17	80971	9960190G1	CONTACT TIP, STATIONARY	2
18	96906	N125P1306B	SCREW	2
19	80981	6713391P1	SHIELD	1
20	96906	MS90725-10	SCREWS, HEX-HEAD	2
21	80971	4767491P1	SUPPORT, CONTACT TIP	1
22	80971	N170P23020B	SCREW, CAP, SOCKET-HEAD	1
23	96906	MS90725-28	SCREW, HEX-HEAD	1
24	96906	9963819G1	SHUNT	1
25	96906	N210P16B	LOCKNUT, CALIBRATING	1
26	96906	6706033G1	SCREW, CALIBRATING	1
27	80971	N403P19B	WASHER, STAR	2
28	80971	8823898G1	SPRING, CALIBRATING	1
29	80971	N503P908B6	PIN, COTTER, 3/32 IN , 1/2 IN LONG	1
30	80971	8814853P1	SEAT, SPRING	1
31	80971	8862956P1	PRESSURE, SPRING, CONTACT	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 47 CONTACTOR, FIELD SHUNT (CONT)	
32	80971	8814797P1	PINS	1
33	80971	8814696P1	CLAMPS	2
34	80971	336B640P7	CONTACT LEVER ARM	1
35	80971	8839157G1	ARMATURE, WITH SPRING POST AND BRACKET	1
36	80971	9960149P2	ARMATURE, STOP	1
37	96906	MS90725-6	SCREWS, HEX-HEAD	2
38	80971	4739326G2	OPERATING COIL	1
39	96906		SCREW, CAP, SOCKET-HEAD	2
40	80971	4768834P1	MAGNET, FRAME	1
41	96906	MS90725-36	SCREW, HEX HEAD	1
42	96906	MS35338-45	WASHER, LOCK	1
43	80971	996019P1	BASE	1
44	4710372P1		CORE, MAGNET	1
			END OF FIGURE	

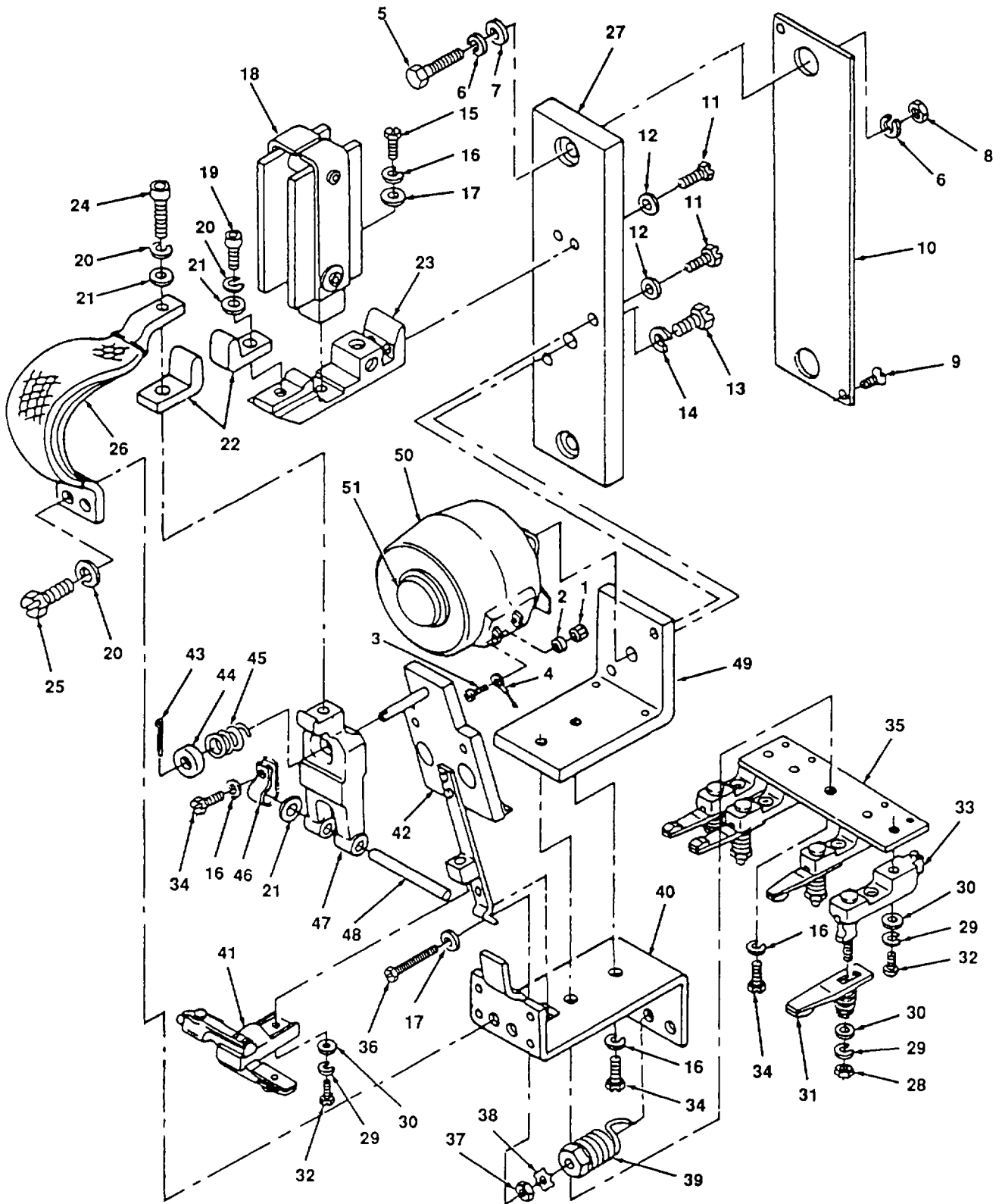


Figure 48. Contactor, Cranking

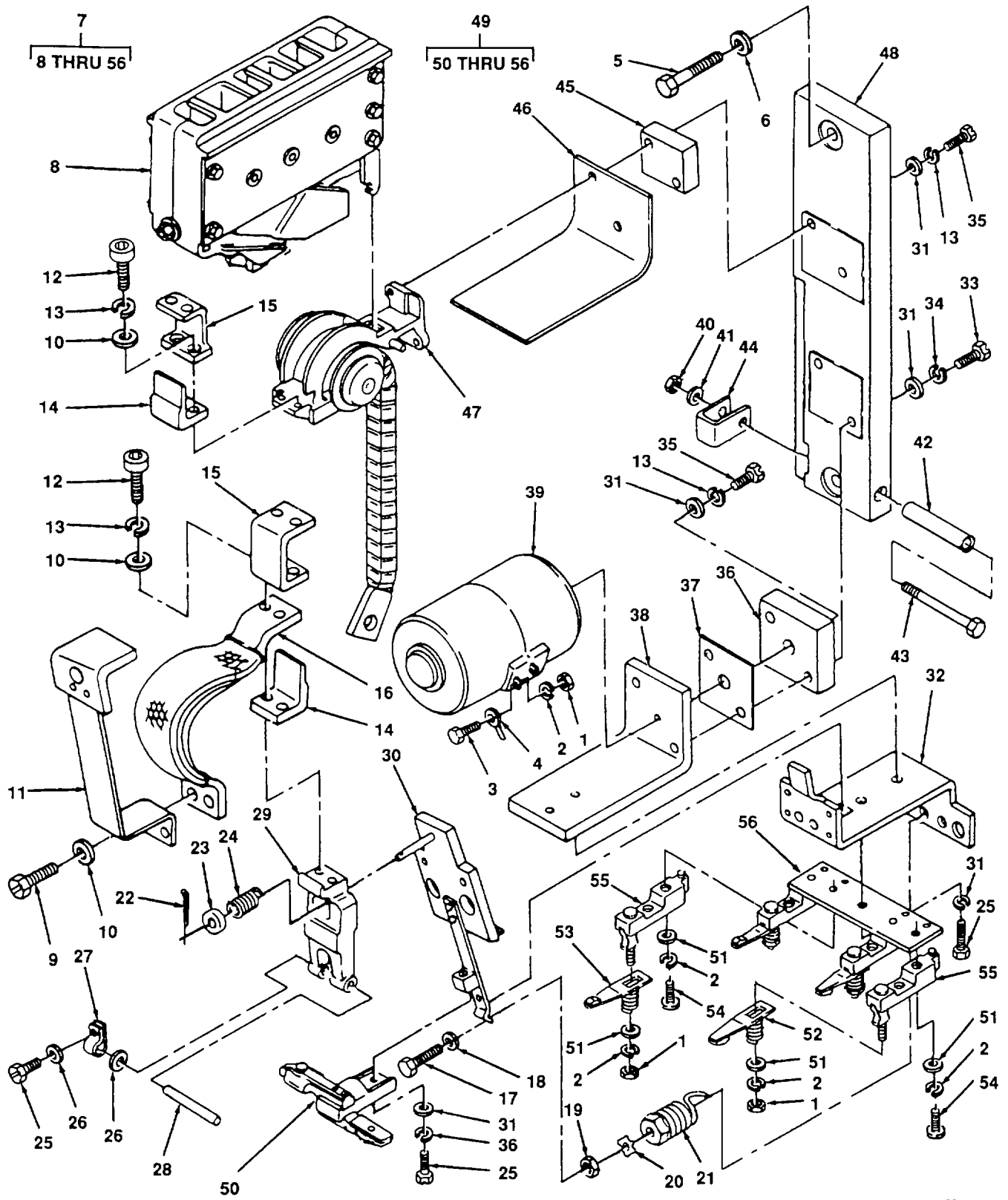


## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 CONTROLS, ELECTRICAL GROUP	
			FIG.48 CONTACTOR, CRANKING	
1	96906	MS35649-202	NUT, #10	2
2	96906	MS35338-8	WASHER, LOCK, #10	2
3	96906	MS27617-8	SCREW, #10,3/8 IN LONG	2
4			LEAD, ELECTRICAL, MAKE FROM, 14 AWG, 8491796 (72915) AND TERMINAL LUG, 1434780 (594000)	2
5	96906	MS90725-65	SCREW, HEX HEAD	2
6	96906	MS35338-46	WASHER, LOCK	4
7	96906	MS27183-14	WASHER, FLAT	2
8	96906	MS51967-09	NUT, 3/8-16	2
9	80971	N125P1306B	SCREW	2
10	80971	6713391P1	SHIELD	1
11	96906	MS90725-14	SCREW, HEX HEAD	4
12	96906	MS27183-10	WASHER, FLAT	4
13	96906	MS90725-36	SCREW, HEX HEAD	1
14	96906	MS35338-45	WASHER, LOCK	1
15	96906	MS90725-65	SCREW, HEX HEAD	1
16	96906	MS35338-43	WASHER, LOCK	1
17	96906	MS27183-10	WASHER, FLAT	1
18	80971	2744700G-3	ARC, CHUTE	1
19	80971	N170P23016B	SCREW, ALLEN-HEAD	1
20	96906	MS35338-45	WASHER, LOCK	4
21	96906	MS27183-12	WASHER, FLAT	1
22	80971	8867977P1	CONTACT TIP, STATIONARY	2
23	80971	4767491P1	CONTACT, TIP SUPPORT	1
24	80971	N170P23020B	SCREW, ALLEN-HEAD	1
25	96906	MS90725-28	SCREW, HEX-HEAD	2
26	80971	9963819G1	SHUNT	1
27	80971	9960192P1	BASE	1
28	96906	MS35649-202	NUT, HEX HEAD	8
29	80971	MS35338-43	WASHER, LOCK	8
30	96906	MS27183-8	WASHER, FLAT	8
31	80971	6700284G1	CONTACT, FINGER	4
32	96906	MS90725-32	SCREW, 10-32	4
33	80971	8860652P1	CONTACT, SUPPORT	4

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 48 CONTACTOR, CRANKING (CONT)	
34	96906	MS90725-6	SCREW, HEX-HEAD	2
35	80971	4710452P1	BASE	1
36	80971	6706033G1	SCREW, CALIBRATING	1
37	80971	N210P16B	SCREW, LOCKNUT CALIBRATING	2
38	80971	N403P19B	WASHER, STAR	2
39	80971	8823898G1	SPRING, CALIBRATING	2
40	80971	9960149P2	ARMATURE, STOP	1
41	80971	6701850G1	CONTACT ASSEMBLY	1
42	80971	8839157G1	ARMATURE	1
43	80971	N503P90B13	PIN, COTTER	1
44	80971	8814853P1	SEAT, SPRING	1
45	80971	8862956P1	SPRING, CONTACT PRESSURE	1
46	80971	8814696P1	CLAMPS	1
47	80971	336B640P9	CONTACT, LEVER	1
48	80971	8814797P1	PINS	1
49	80971	4769834P1	MAGNET, FRAME	1
50	80971	4739364G1	OPERATING COIL	1
51		4710372P1	CORE MAGNET	1
			END OF FIGURE	

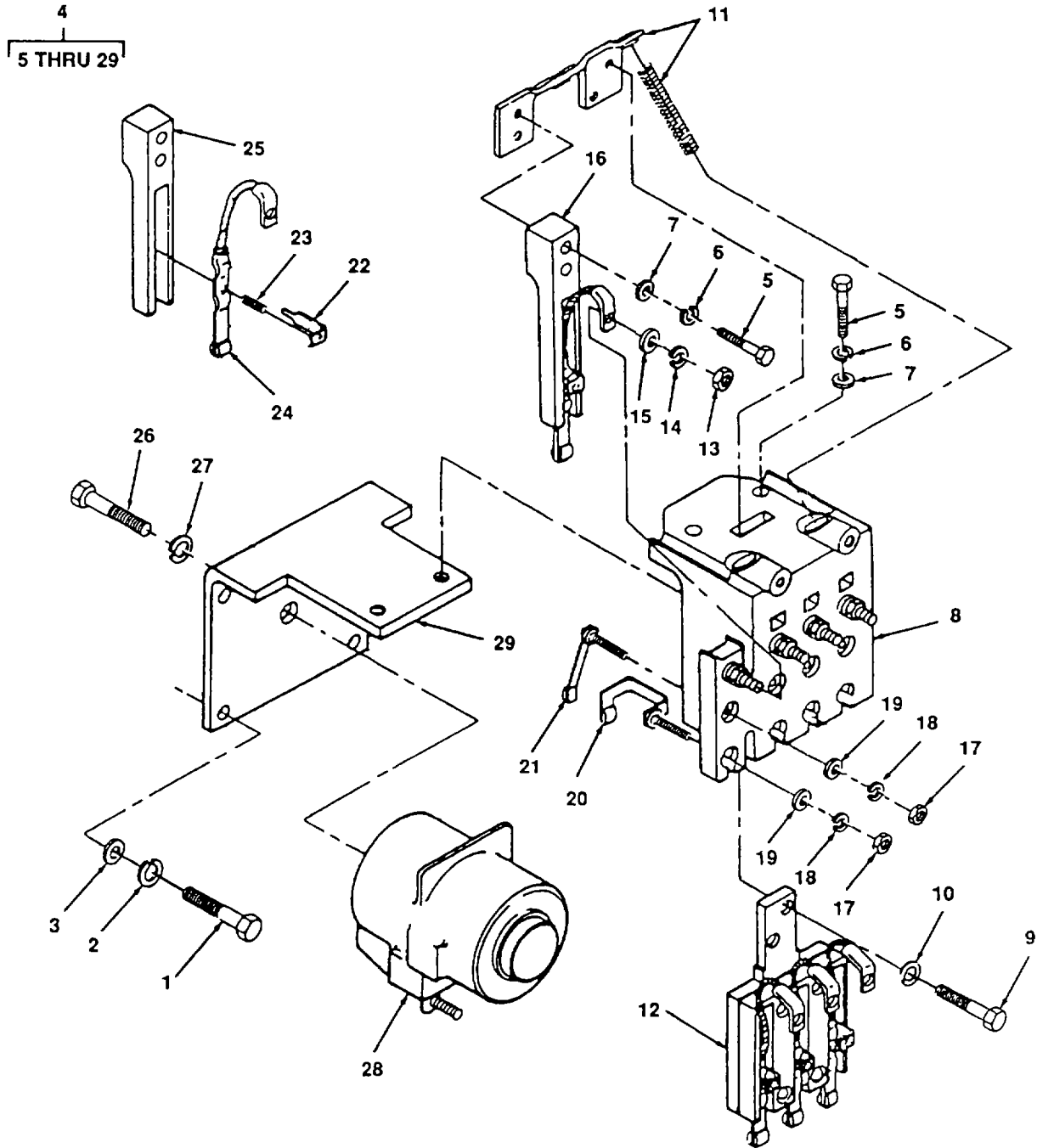


4834-049

Figure 49. Contactor, Power

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 CONTROLS, ELECTRICAL GROUP	
			FIG. 49 CONTACTOR, POWER	
1	96906	MS35649-202	NUT, #10	3
2	96906	MS35338-8	WASHER, LOCK	5
3	96906	MS27617-8	SCREW, #10, 3/8 IN. LONG	2
4			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG 8491796 (72915) AND TERMINAL LUG 1434780 (594000), REF DES,	
5	96906	MS90725-67	SCREWS, HEX-HEAD, 3/8 X 2 1/4 IN	2
6	96906	MS27183-14	WASHERS, FLAT, 3/8	2
7	24446	17CM55AK5	CONTACTOR, POWER	1
8	80971	41 D750063G1	ARC CHUTE	1
9	96906	MS90725-31	SCREW, HEX-HEAD, 5/16 IN -18,5/8 IN LONG	2
10	96906	MS27183-12	WASHERS, FLAT, 5/16	4
11	80971	6715120G1	SPRING, SUPPORT	1
12	80971	N170P23016B	SCREWS, ALLEN-HEAD, 5/16 X1 IN LONG	4
13	96906	MS35338-45	WASHER, LOCK, 5/16 IN	6
14	80971	41A263565G1	CONTACT, TIP STATIONARY	1
15	80971	8814906P1	HORN, ARCING	2
16	80971	9960283G1	SHUNT	1
17	80971	6706033G1	SCREW, ASSEMBLY, CALIBRATING	1
18	96906	MS27183-10	WASHER, FLAT, 1/4 IN	1
19	80971	N210P16B13	NUT, CALIBRATING	1
20	80971	N403P19B13	WASHER, STAR	1
21	80971	8823898G1	SPRING CALIBRATING	1
22	80971	N503P90B13	PIN, COTTER	1
23	80971	8814853P1	RETAINER, SPRING	1
24	80971	8862957P1	SPRING, CONTACT PRESSURE	1
25	96906	MS90725-6	SCREW, HEX-HEAD	2
26	96906	MS35338-43	WASHER, LOCK	2
27	80971	8814696P1	CLAMPS	1
28	80971	881497P1	PIN 1	
29	80971	336B640P6	CONTACT, LEVER	1
30	80971	8839157G1	ARMATURE	1
31	96906	MS27183-10	WASHER, FLAT, #10	1
32	80971		ARMATURE, STOP	1

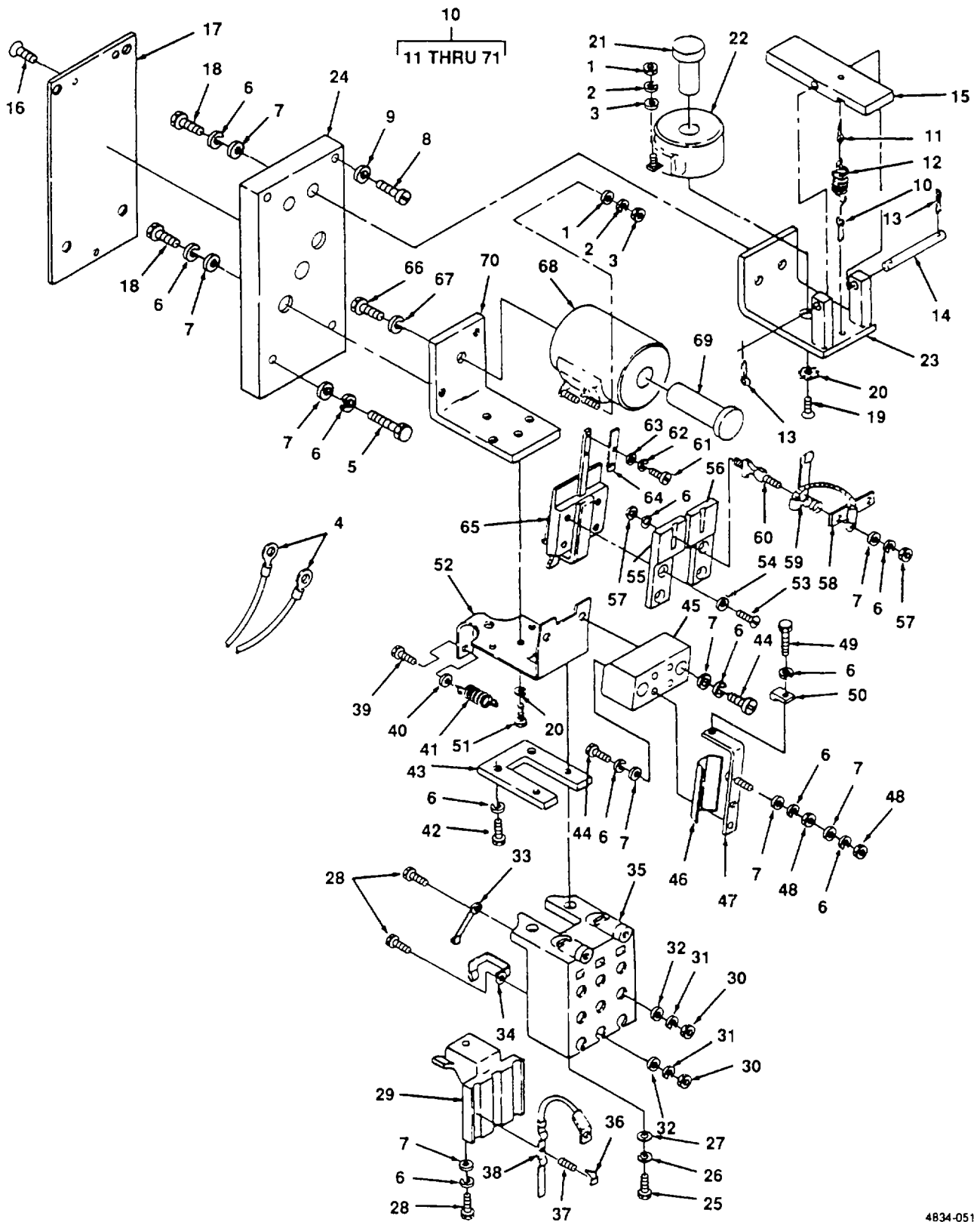
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 49 CONTACTOR, POWER (CONT)	
33	96906	MS90725-40	SCREW, 5/16-18 X 2 IN	2
34	96906	MS35338-45	WASHER, LOCK, 3/8	2
35	96906	MS90725-36	SCREW, HEX-HEAD	2
36	80971	41C653400P13	INSULATING BLOCK	1
37	80971	41A272792P2	SHIM, 030 IN	1
38	80971	4734385P1	MAGNET FRAME	1
39	80971	47396562	COIL, OPERATING	1
40	96906	MS51967-03	NUT, 1/4 X 20	1
41	96906	MS35338-44	WASHER, LOCK, 1/4 IN	1
42	80971	41C653393P7	SPACER, 23/16 IN	1
43	96906	MS90725-20	SCREW, CAP	1
44	80971	41C653393P6	CLAMP	1
45	80971	41C653400P12	INSULATING BLOCK	1
46	80971	41A271220P2	INSULATION	1
47	80971	170X1010	BLOWOUT COIL	1
48	80971	41C657010P3	BASE	1
49	80971	17AF14J3	INTERLOCK J1, J3	
50	80971	6701850G1	CONTACT ASSEMBLY (J1, J3)	1
51	90906	MS27183-8	WASHER, FLAT, #10 (J1, J3)	8
52	80971	6700284G1	CONTACT, FINGER (J1, J3)	2
53	80971	6700314G1	CONTACT, FINGER WITH COMPRESSION SPRING (J1, J3)	2
54	80971	N44P16008B	SCREW, SL FL HD, #10-32 X 11/2 IN (J1, J3)	4
55	80971	8860652P1	SUPPORT (J1, J3)	4
56	80971	6700603P1	MOUNTING PLATE	1
			END OF FIGURE	



4834-050

Figure 50. Relay, Engine Temperature Warning, Motor Kill, Safety and Field Shunt Transition

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 CONTROLS, ELECTRICAL GROUP	
			FIG. 50 ENGINE TEMPERATURE WARNING, MOTOR KILL, SAFETY AND FIELD SHUNT TRANSITION	
1	96906	MS90725-8	SCREW, HEX-HEAD	4
2	96906	MS35338-44	WASHER, LOCK	4
3	96906	MS27183-10	WASHER, FLAT	4
4	24446	17LV66J1	ASSEMBLY, RELAY	1
5	96906	MS90725-6	SCREW, HEX-HEAD, 1/4 X 3/4 IN. LONG	4
6	96906	MS35338-51	WASHER, LOCK	4
7	96906	MS27183-24	WASHER, FLAT	4
8	80971	4710452P1	BLOCK, ASSEMBLY	1
9	96906	MS90725-10	SCREW, HEX-HEAD	2
10			WASHER, LOCK	
11	80971	8831781 P1	SEAT SPRING (WITH SPRING)	1
12	80971	6743654G2	ARMATURE ASSEMBLY	1
13	96906	MS51967-09	NUT	2
14	96906	MS35338-46	WASHER, LOCK	2
15	96906	MS27183-14	WASHER, FLAT	2
16	80971	6700284G1	BASE, FINGER	1
17	96906	MS35649-202	NUT	2
18	96906	MS35338-43	WASHER, LOCK	2
19	96906	27183-8	WASHER, FLAT	2
20	80971	6700283P1	FINGER, OPEN	1
21	80971	8860749	FINGER, CLOSED	1
22	80971	8823875P1	RETAINER, SPRING	1
23	80971	8823868P1	SPRING, WIRE	1
24	80971	8860749G1	FINGER, MOVABLE CONTACT	1
25	80971	8860652P1	SUPPORT	1
26	96906	90725-32	SCREW	1
27	96906	MS35338-45	WASHER, LOCK	1
28	84971	8827086	COIL, OPERATING	1
29	80971	8867935G1	FRAME, MAGNET	1
			END OF FIGURE	



4834-051

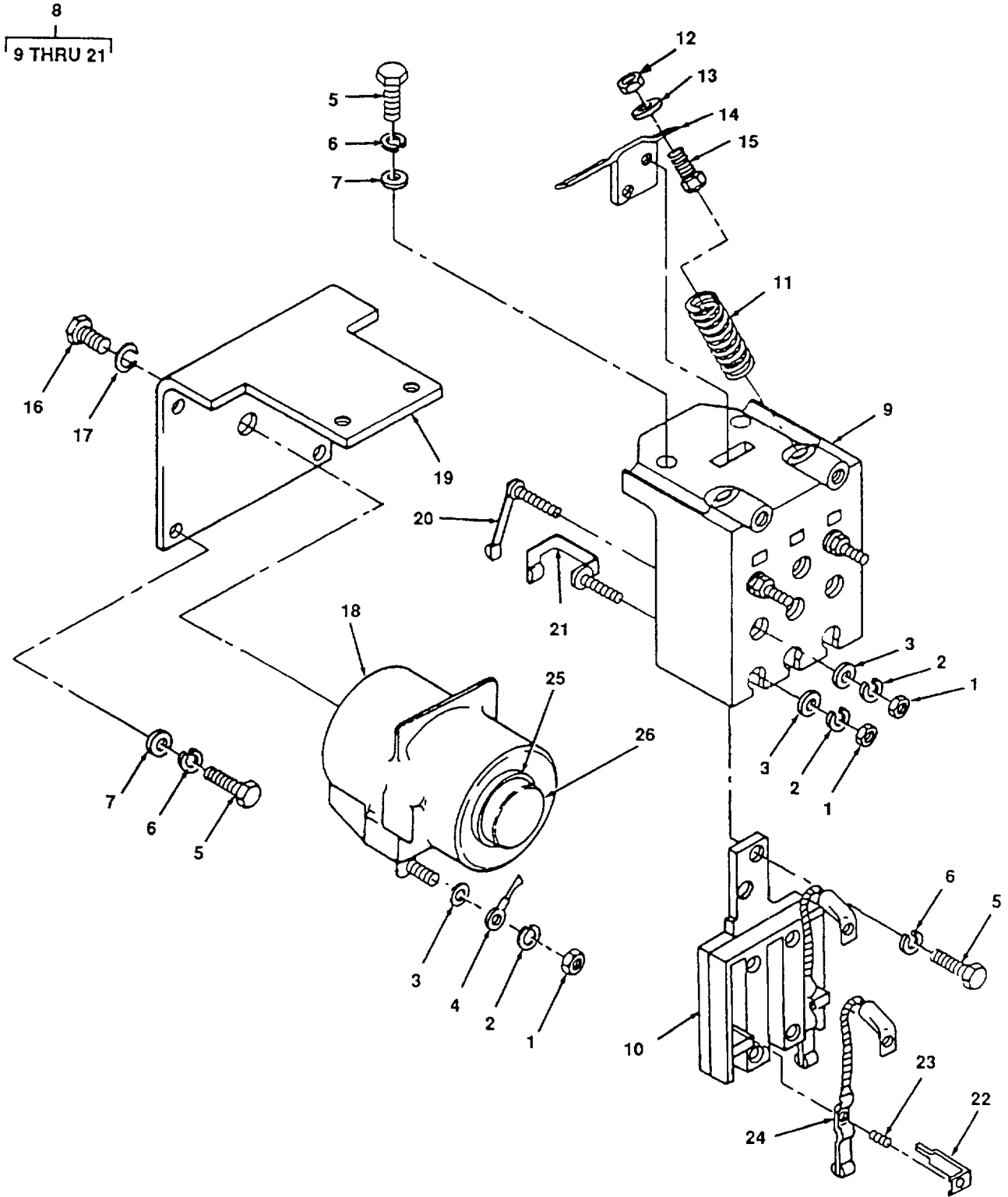
Figure 51. Relay Ground



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 51 GROUND RELAY	
1	96906		NUT, HEX (NSN 5310-00-619-2480)	1
2	96906	MS35338-43	WASHER, LOCK	1
3	96906	MS27183-8	WASHER, FLAT	1
4			LEAD, ELECTRICAL, MAKE FROM, 14 AWG 8491796 (72915) AND TERMINAL, LUG 1434780 (549000)	
5	96906	MS90725-228	SCREW, HEX-HEAD, 5/16	12
6	96906	MS35338-43	WASHER, LOCK #10	12
7	96906	MS27183-8	WASHER, FLAT #10	12
8	96906	MS35206	SCREWS, MACHINE, 10/32 X 11/2	2
9	96906	MS27183-6	WASHER, FLAT 10/32	21
10	80971	17LV59R16	GROUND RELAY	1
11	80971	N513P710B13	COTTER PIN	3
12	80971	729779P1	SPRING	1
13	80971	N503P710B13	COTTER PIN	1
14	80981	6271901ABP20	PIN	1
15	80971	41B561623G1	ARMATURE	1
16	80971	N198P608B13	SCREWS, MACHINE	3
17	80971	415586P1	COVER, REAR	1
18	96906		SCREW, FILLISTER HEAD (NSN 5305-00-616-4831)	2
19	96906	MS35241-288	SCREW, 1/4-20 X 5/8	1
20	96906		WASHER, LOCK (NSN 5310-00-582-5965)	7
21	80971	8801066P1	CORE, MAGNET	1
22	80971	4739333G2	COIL, OPERATING	1
23	80971	0735931G2	FRAME, MAGNET	1
24	80971	4731774P2	BASE	1
25	96906	MS169977-61	SCREWS, SOCKET-HEA CAP, 1/4-20 X 3/4 (NSN 5305-00-983-6660)	2
26	80971	N402P11B13	WASHER, LOCK, 1/4 ZINC PL	2
27	80971	N405P41B13	WASHER, FLAT, 1/4 ZINC PL	2
28	80971	N170P1601B13	SCREW, SOCKET-HEAD CAP, 10-32 X 58	4
29	80971	487A616G1	FINGER BASE	1
30	96906	MS51967-03	NUT, HEX	3
31	80971	N409P13B13	WASHER, LOCK	3

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 51 GROUND RELAY (CONT)	
32	96906	MS27183-10	WASHER, FLAT	3
33	80971	8802753G1	CONTACT, NORMALLY OPEN	
34	80971	6706024G1	CONTACT, NORMALLY CLOSED	
35	80971	41B561638G1	INTERLOCK	1
36	80971	311V266P1	SPRING, RETAINER	3
37	80971	8823868P1	SPRING	3
38	80971	336B737G1	CONTACT, MOVABLE FINGER	3
39	80971	4765696P22	SCREW, CALIBRATING	1
40			SCREW, CALIBRATING LOCKNUT	1
41	80971	4731974G1	SPRING, CALIBRATING	1
42	96906		SCREW, HEX-HEAD (NSN 5305-00-983-6651)	2
43	80971	185V364P1	FRAME, INTERLOCK	1
44	80971	N44P16018B13	SCREWS, MACHINE, FILLISTER 10-32 X 11/8	6
45	80971	6706810P1	CONTACT, BLOCK OUTER	1
46	80971	6710813AFP1	BARRIER	2
47	80971	6706808G1	FINGER	2
48	96906		NUT, HEX	8
49	96906		SCREW, HEX, S L, 10-32 X 3/8	2
50	80971	6706024G1	CONTACT	2
51	96906	MS90725-5	BOLT, HEX-HEAD	2
52	80971	41A27252P1	ARMATURE, STOP	1
53	96906		SCREW, FLAT HEAD, 10-32 X 5/8	4
54	96906	MS3533-	WASHER, LOCK, CSK	4
55	80971	6706807P1	BLOCK, SUPPORTING	1
56	80971	670807P2	BLOCK, SUPPORTING	1
57	96906		NUT, HEX (NSN 5310-00-934-9751)	8
58	80971	6706100P1	STRIP, CONNECTION	2
59	80971	802753G1	FINGER, CONTACT	2
60	80971	6706811P1	POST, GUIDE	2
61	96906		SCREW, FILLISTER HEAD (NSN 5305-00-982-3380)	2
62	96906	MS35338-41	WASHER, LOCK	2
63	96906	MS27183-4	WASHER, FLAT	2
64	80971	8801058P1	LATCH	1
65	80971	41B561623G1	ARMATURE	1
66	96906	MS90725-34	BOLT, HEX-HEAD	1

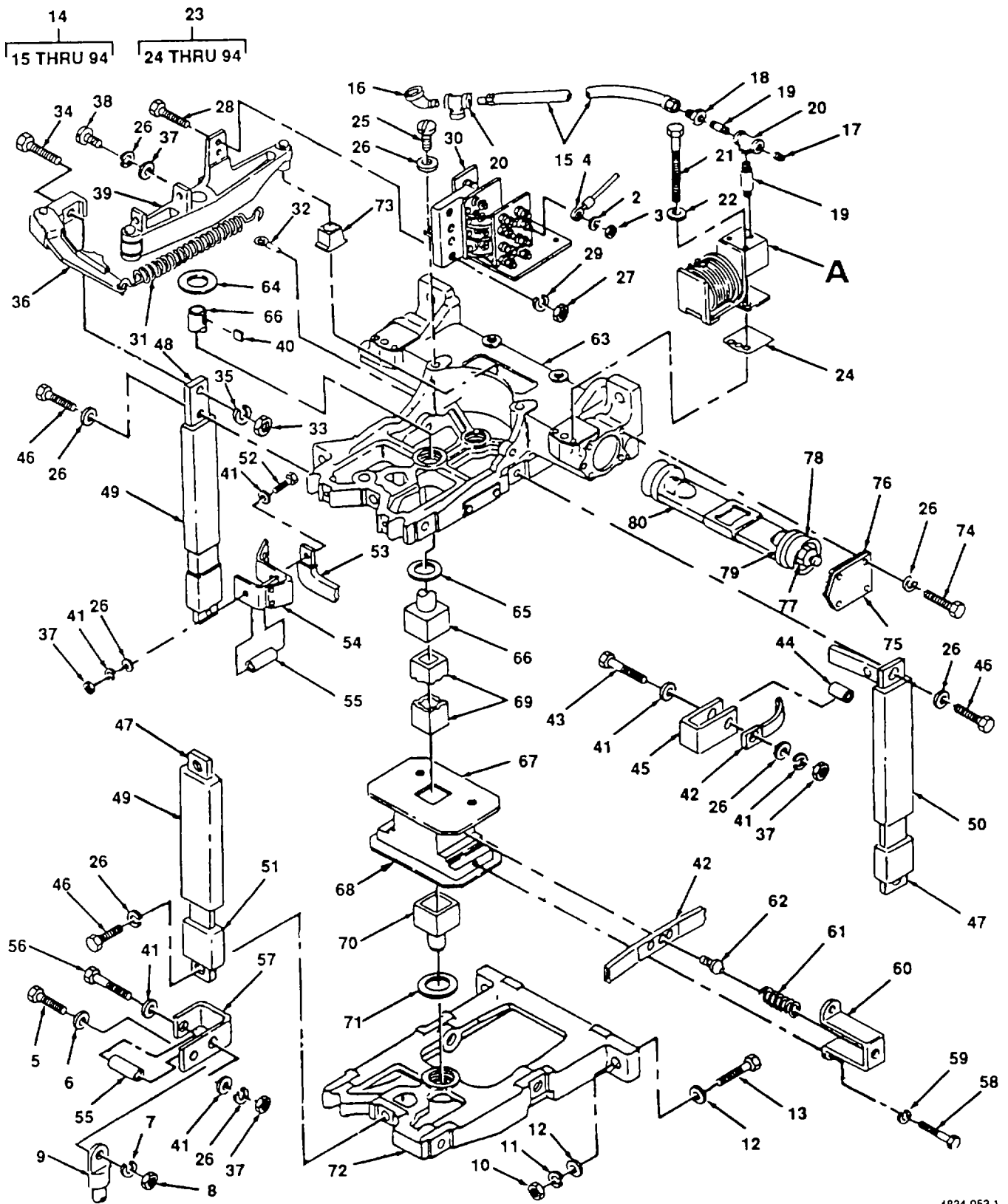
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
67 68 69 70	96906 80971 80971 80971	41B566575P1 4709833AAP1	FIG. 51 GROUND RELAY (CONT)  WASHER, LOCK COIL, RESET MAGNET, CORE MAGNET FRAME  END OF FIGURE	1 1 1 1



4834-052

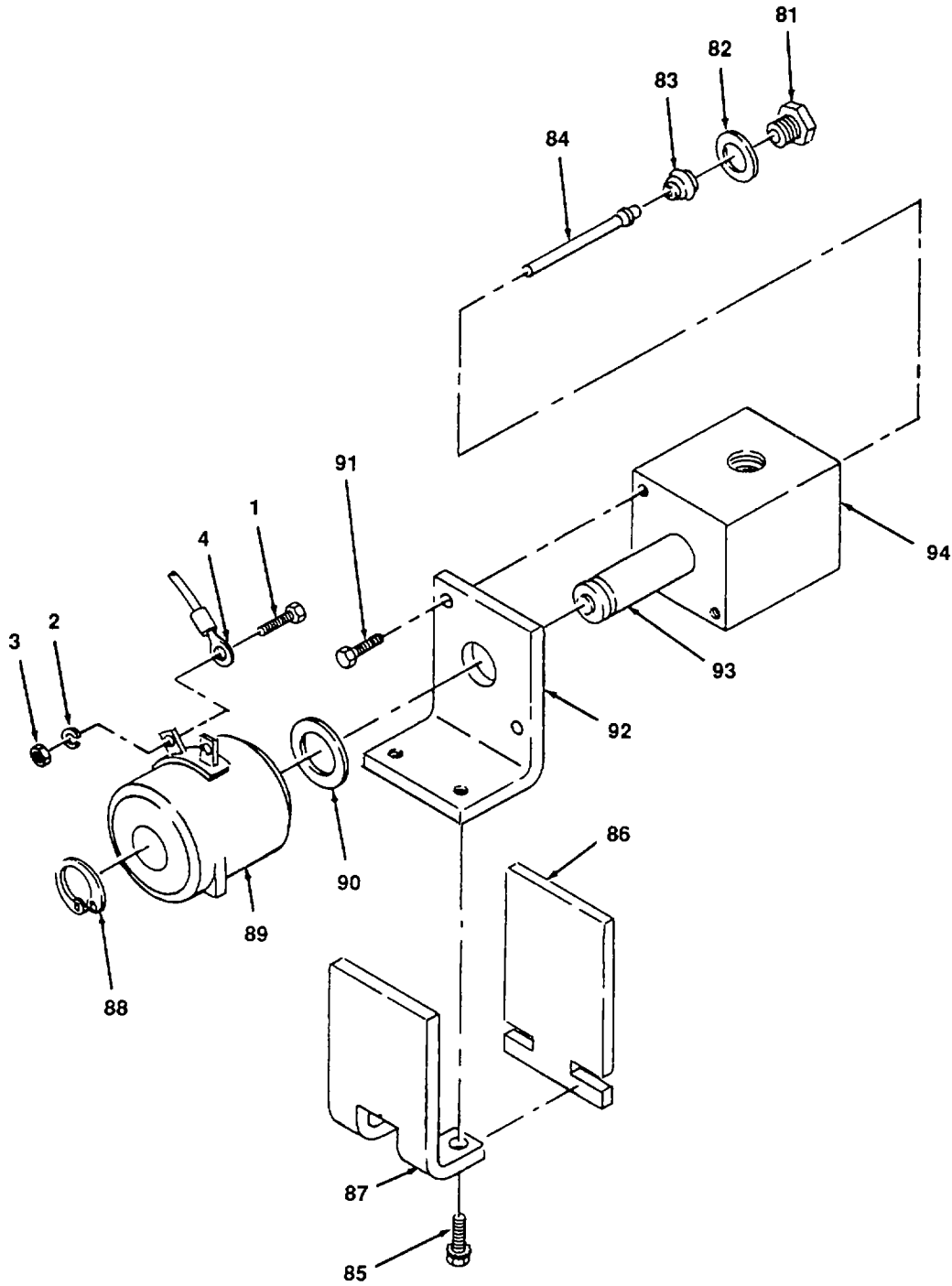
Figure 52. Relay, Wheel Slip

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 52 RELAY, WHEEL SLIP	
1	96906	N210P16B	NUT, #10	8
2	96906	N405P39B	WASHER, LOCK #10	8
3	96906	N402P9B	WASHER, FLAT #10	8
4			LEAD, ELECTRICAL, MAKE FROM, 14 AWG 8491796 (72915) TERMINAL, STUD, 14-16 AWG, #10, P/N 31906 (89110), REF DES, (WSR1), J, J, WS, 22CP, 23CP, WSB, 1AA2, (WSR2), J, J, WSA, 22CP, 21CP, NSB, 1WSB, 1AA4	
5	96906	MS90725-8	SCREW, HEX-HEAD, 1/4-20 X 1 IN	6
6	96906	MS35338-44	WASHER, LOCK, 1/4	6
7	96906	MS27183-10	WASHER, FLAT, 1/4	6
8	80971	17LV66AA19	RELAY, SLIP WHEEL ASSEMBLY (WS41, WSR2)	
9	80971	8831782P1	SUPPORT, BLOCK ASSEMBLY	1
10	96906	6743654G3	ARMATURE	1
11	80971	498A357P1	SPRINGS	2
12	96906	N210P14B6	NUT	2
13	96906	N404P13B	WASHER, LOCK	2
14	80971	8831781P4	SEAT, SPRING	1
15	96906	N57P12010B6	STUD	2
16	96906	MS90725-32	BOLT, SL, HEX-HEAD, 5/16 IN -18, 3/4 IN LONG	1
17	96906	MS27183-45	WASHER, LOCK, 5/16	1
18	80971	9960940G1	COIL, OPERATING	1
19	80971	8867935G1	FRAME, MAGNET	1
20	80971	8860749G1	FINGER, CLOSED	1
21	80971	6700284G1	FINGER, OPEN	1
22	80971	8823863P1	RETAINER	2
23	80971	8823868P1	SPRING	2
24	80971	8860749G1	CONTACT FINGER	2
25		41A25011P1	WASHER, SPRING	1
26		9960712G1	CORE	1
			END OF FIGURE	



4834-053 1

Figure 53. Reverser (Sheet 1 of 2)



DETAIL A

Figure 53. Reverser (Sheet 2 of 2).

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 53 REVERSER	
1	96906		SCREW, #10	2
2	96906	MS35338-43	WASHER, LOCK, #10	18
3	96906	MS356049-202	NUT, #10	18
4			LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG P/N 8491796 (72915), LUG 14 AWG #10 STUD 31906(89110), REF DES, 1CC 531H, CCA N61, N62, SD 11R, CC, SD11S, 2SD51K, CCA, 1CC61Z, 1AA1, 1AA2, N60, CC, 10C 53K, N61, AA2, 1AA3, 1AA4	
5	96906	MS90725-66	SCREW BOLT	4
6	96906	MS27183-14	WASHER, FLAT	4
7	96906	MS35338-46	WASHER, LOCK	4
8	96906	MS51967-09	NUT, HEX	
9			LEAD, ELECTRICAL, MAKE FROM, CABLE 3/0, LUG 3/8 STUD, REF DES, FI, FF1, FF2, F2, F3, AA3, FF3J, FF4, AA4, F4J, FS1J, AM1, FF1J, AM1, FF1J, FS2J, 16AA1, F2J, FS2J, 1GAA1, F2J, FS3J, 1GAA2, FF3, FS4J, AM2, F4	4
10	96906	MS51967-15	NUT	2
11	96906	MS35338-48	WASHER, LOCK	2
12	96906	MS27183-18	WASHER, FLAT	4
13	96906	MS90725	SCREW, HEX-HEAD	2
14	80971	17DP21C3	REVERSER	1
15	80971	41C600937P10	HOSE	1
16	96906	MS51504-B4-4	ELBOW	1
17	80971	N5700P31	PLUG, PIPE	1
18	01276	2021-8-10B	ADAPTER	1
19	80971	N5704P316B	NIPPLE	2
20	80971	N5701P103	TEES	2
21	80971	N26P23032B	BOLTS	2
22	80971	N405P42B	WASHER, LOCK	2
23	80971	17MV38A12	VALVE, MAGNET ASSY	2
24	80971	6714650P1	GASKET	2
25	80971	N44P25010B	SCREW	4



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 53 REVERSER (CONT)	
26	80971	N405P43B	WASHERS, LOCK	24
27	96906	MS51967-09	NUT	2
28	96906	MS90725-66	SCREW, HEX-HEAD	2
29	96906	MS35338-46	WASHER, LOCK	2
30	80971	6742812G3	INTERLOCK	1
31	80971	487A212P1	SPRING, TENSION	1
32	80971	N504P2820	PIN, COTTER	1
33	80971	N203P29B	NUT	10
34	80971	N22P29028B	BOLT	10
35	80971	N405P45B	WASHER, LOCK	11
36	80971	6742810G2	ASSEMBLY, PAWL	1
37	80971	N203P25B	NUT, LOCK	21
38	80971	N72P2520B	SETSCREW	1
39	80971	6742810G1	LEVER, ASSY OPERATING	1
40	80971	N3400P607	KEY, WOODRUFF	1
41	80971	N402P13B	WASHER, FLAT, 3/8 IN	40
42	80971	426C379G1	FINGER	8
43	80971	41A252683P2	BOLT, CARRIAGE, 2 3/4 IN	8
44	80971	41A262072P5	SPACERS	8
45	80971	8800596P1	SUPPORTS	4
46	80971	N22P29020B	BOLTS, CARRIAGE	10
47	80971	880058861	ROD	2
48	80971	8800589G1	ROD	
49	80971	8800588G1	SLEEVE	1
50	80971	880058P1	SLEEVES	8
51	80971	8800585P1	SLEEVES	10
52	80971	MS90725-70	BOLTS, HEX-HEAD, 3/8-16 X 3 IN	8
53	80971	311V223P1	BUS BARS	4
54	80971	496A427G1	SUPPORTS	8
55	80971	41A262072P4	SPACERS, 0 615 IN	8
56	80971	N22P25044B	BOLT, HEX-HEAD, 3/8-16 X 2 3/4	4
57	80971	496A428G1	SUPPORTS	4

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 53 REVERSER (CONT)	
58	80971	N44P14016B	BOLT	16
59	80971	N405P38B	WASHER, LOCK	16
60	80971	311V255P1	SUPPORT	8
61	80971	729074P1	SPRING	8
62	80971	8800594P1	SEAT	8
63	80971	6750344G2	FRAME, TOP END	1
64	80971	41A251410P8	BUSHING, 0 878 IN ID, BRONZE	1
65	80971	41A250534P1	BEARING, THRUST	1
66	80971	8800584P1	SLEEVE, 59/64 IN LONG	1
67	80971	496A427G1	SUPPORT BARRIERS	4
68	80971	8800590P1	INSULATORS	3
69	80971	8800592P1	SHAFT	1
70	80971	498A624P1	SLEEVE, 13/16 IN LONG	1
71	80971	311V750P1	SPACER	1
72	80971	6742614G1	FRAME, BOTTOM END	1
73	80971	8800663P1	BLOCK, GUIDE	1
74	80971	N22P23014B	BOLT, HEX-HEAD	8
75	80971	9964324P1	HEAD, CYLINDER	2
76	80971	6715989P1	GASKET	2
77	80971	41A260076P2	NUT, SELF-LOCKING	2
78	80971	41A251866P3	PACKING	2
79	80971	41B550968P1	FOLLOWER	2
80	80971	6735780G2	PISTON	2
81	80971	41A251655P1	CAP PLUG	1
82	80971	499960P1	GASKET	1
83	80971	41A274588P1	SPRING, COMPRESSION	1
84	80971	41A251653P1	VALVE, INLET	1
85	80971	8823750P234	SCREW, W/LOCKWASHER #10-32 X 3/8	2
86	80971	41A251647P1	ARMATURE	1
87	80971	8818143P1	ARMATURE, GUIDE	1
88	80971	N900P75	RING, RETAINING	1
89	80971	9960925G1	COIL	1
90	80971	881 0476P1	WASHER, RUBBER	1
91	80971	N84P16008B	SCREWS	2
92	80971	41B550459P1	MAGNET, FRAME	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
93 94	80971 80971	41A251652P1 41A251658G2	FIG. 53 REVERSER (CONT)  VALVE, STEM 1 VALVE, BODY  END OF FIGURE	

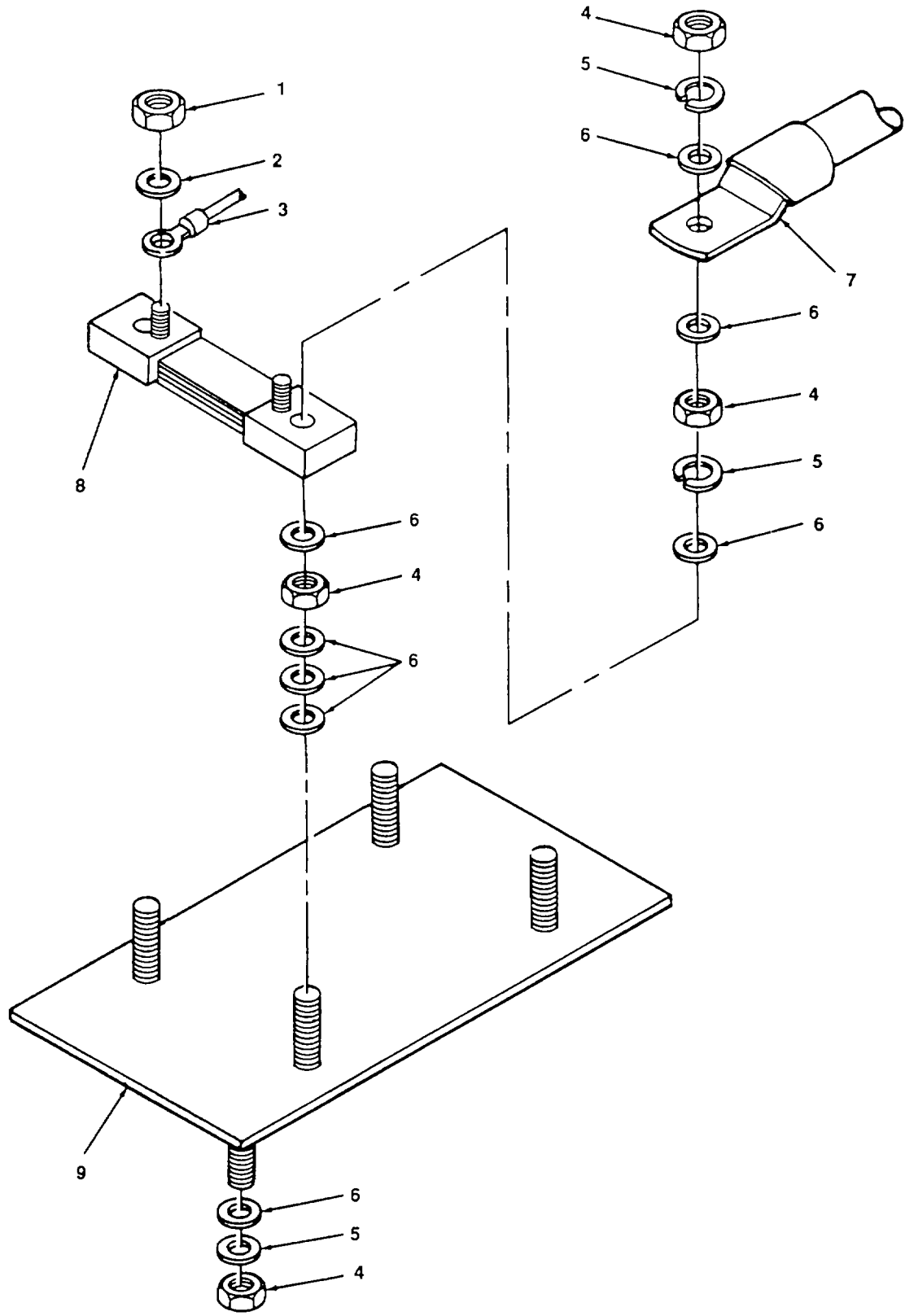


Figure 54. Shunt, Load Meter

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 54 SHUNT, LOAD METER	
1	96906	MS51967-09	NUT	4
2	96906	MS27183-8	WASHER, FLAT	4
3			LEAD, ELECTRICAL, MAKE FROM, 14 AWG 8491796 (72915) AND TERMINAL LUG 1434780 (594000), REF DES, 2-, 1-, 2+, 1+	2
4	96906	MS51967-15	NUT, 1/2	8
5	96906	MS35338-48	WASHER, LOCK	8
6	96906	MS27183-18	WASHER, FLAT	14
7	51225		LEAD, ELECTRICAL, 3-0 X 3/8, REF DES, 6AA2, 6AA1	2
8	24446	41A256271P10	SHUNT, REF DES, LAS1, LAS2	2
9	51225	57-0257	SHUNT BASE	1
			END OF FIGURE	

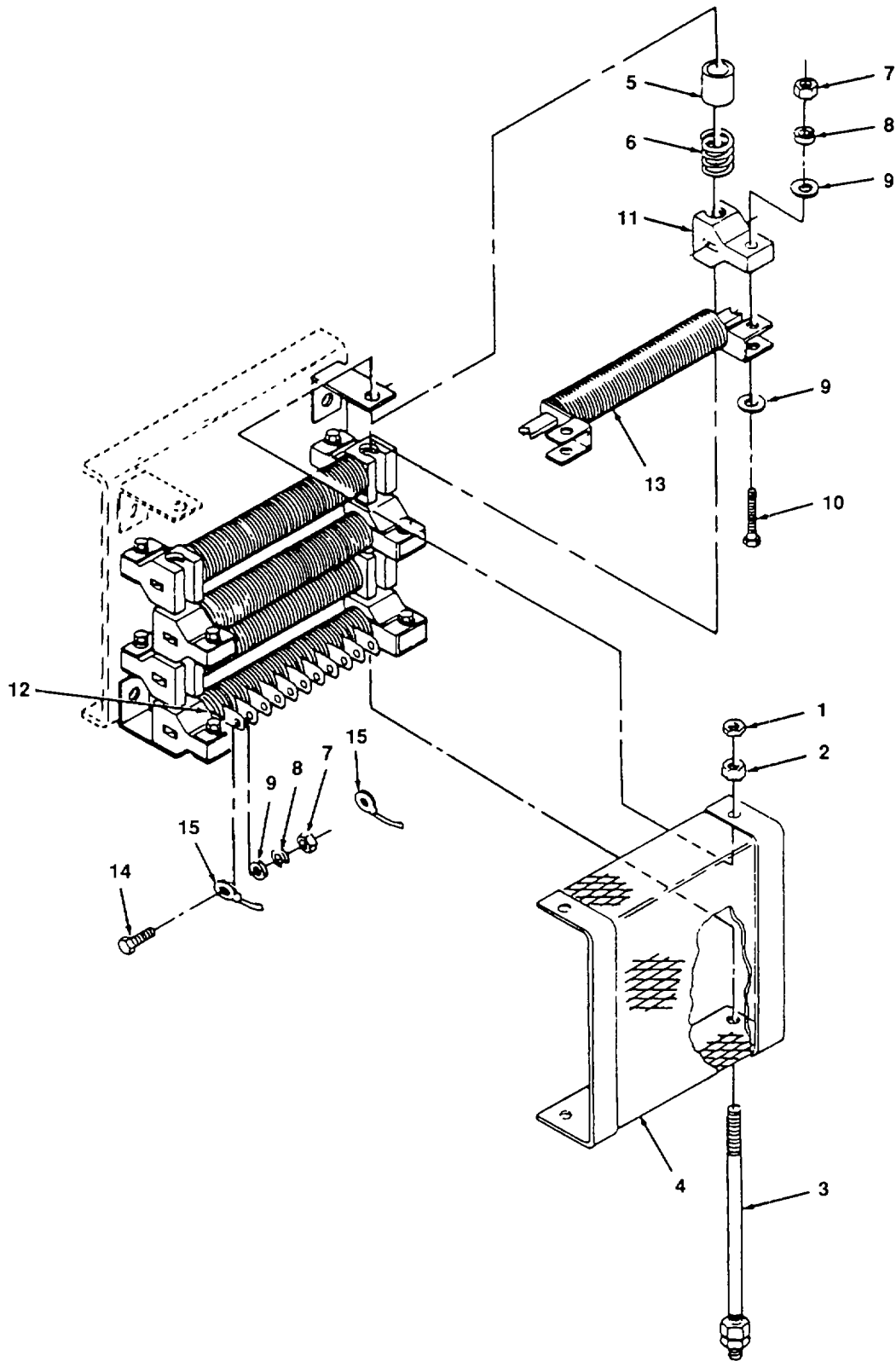
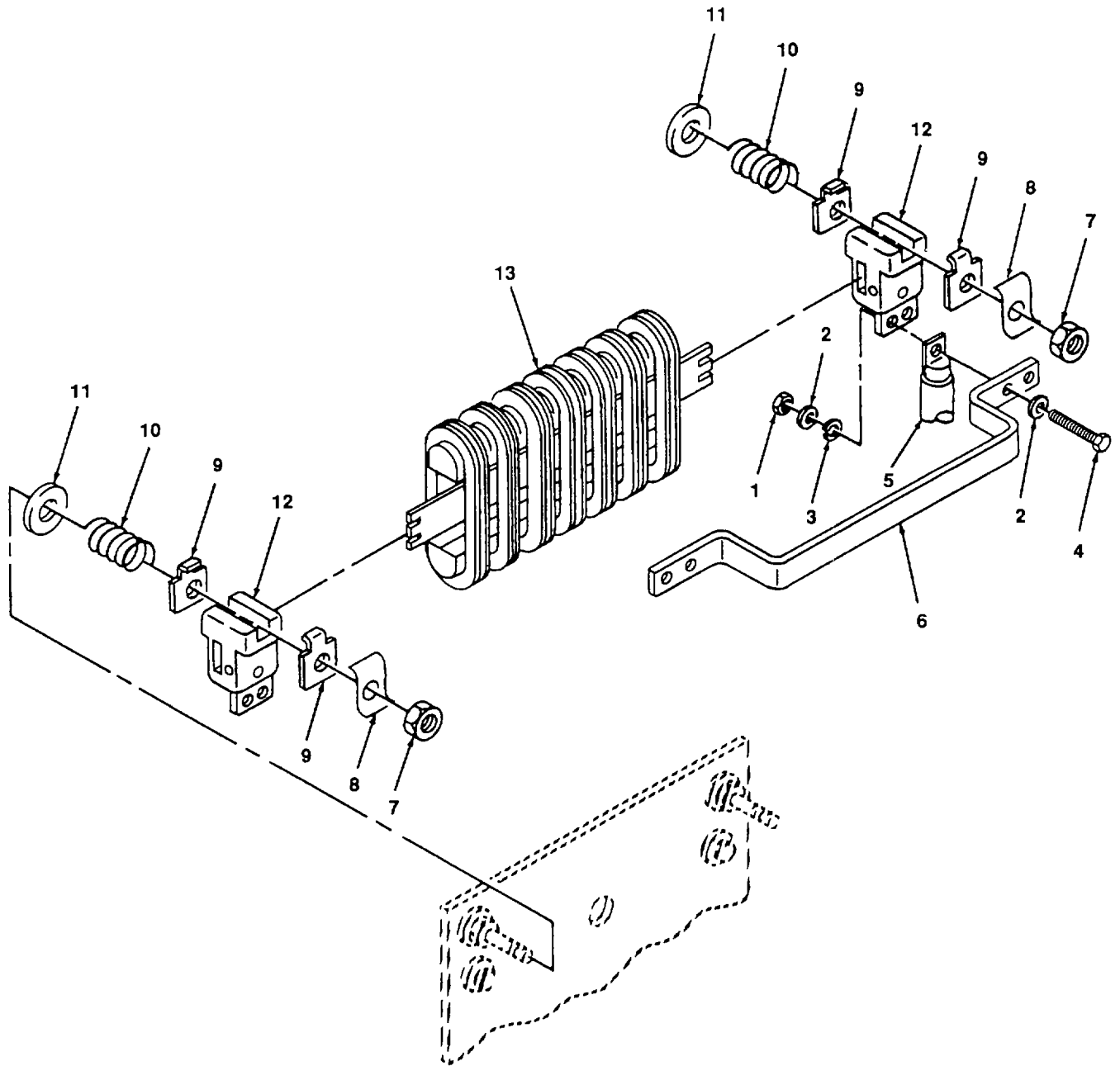


Figure 55. Resistor, Generator Field.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 55 RESISTOR, GENERATOR FIELD	
1	96906	MS51922-33	NUT, LOCK	2
2	96906	MS51967-15	NUT	2
3			STUDS	2
4	97403	13228E2151	CAGE, RESISTOR	1
5			SPACERS	4
6			SPRINGS	
7	96906	MS51967-09	NUT, 3/8	10
8	96906	MS35338-46	WASHER, LOCK, 3/8	10
9	96906	MS27183-14	WASHER, FLAT, 3/8	10
10	96906	MS90725-66	SCREWS, HEX-HEAD	8
11			INSULATORS	2
12	24446	41B556486G2	RESISTOR	8
13	24446	492A933G1	RESISTOR	2
14	96906	MS90725-55	SCREWS, HEX-HEAD, 3/8	6
15			LEADS, ELECTRICAL, MAKE FROM, 14 AWG 8491796 (72915) AND TERMINAL, 14-16 AWG, 3/8 STUD, 1434780 (594000), REF DES, 1GFR1, J1,2GFR1, 1GFR21, J1,2GFR21	
			END OF FIGURE	



4834-056

Figure 56. Field Shunt Resistor.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 56 RESISTOR, FIELD SHUNT	
1	96906	MS51967-09	NUT, 3/8-10	8
2	96906	MS27183-14	WASHER, FLAT, 3/8	16
3	96906	MS35338-46	WASHER, LOCK, 3/8	8
4	96906	MS90725-64	SCREWS, HEX, 3/8	8
5			CABLE, ELECTRICAL, 1/0, 3/8 STUD, REF DES; FS1R12, FS1J, FS2R14, FS2J, FS3R16, FS3J, FS4R18, FS4J	8
6			SHUNT	1
7	96906	MS51967-15	NUT, 1/2 IN	8
8			SPACERS	8
9			SPACERS	16
10	24446		SPRING, HELICAL	8
11	96906	MS27183-18	WASHER, FLAT, 1/2 IN.	8
12			INSULATOR, RESISTOR, CERAMIC	4
13	24446	9964226G5	RESISTOR, FSR1, FS42, FSR3, FSR4	4
			END OF FIGURE	

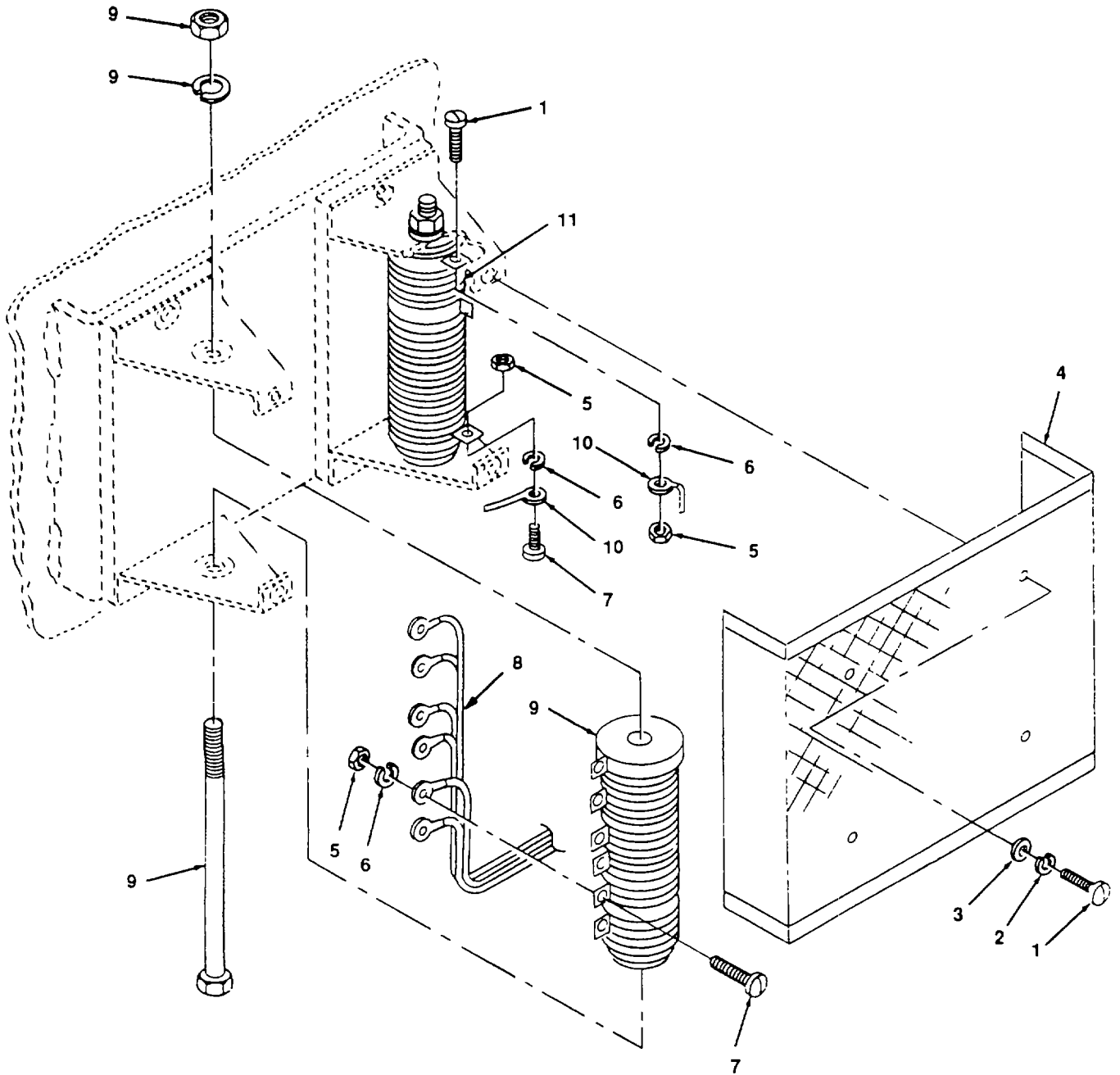


Figure 57. Resistor, Headlight and Generator Field

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 57 RESISTORS, HEADLIGHT AND GENERATOR FIELD	
1	96906	MS35206-20	SCREWS, 3/8 IN	4
2	96906	MS35338-46	WASHERS, LOCK, 3/8 IN	4
3	96906	MS27183-14	WASHERS, FLAT, 3/8 IN	4
4			CAGE, HEADLIGHT RESISTOR	1
5	96906	MS51967-03	NUTS, 1/4 IN	16
6	96906	MS35338-44	WASHERS, LOCK, 1/4 IN	16
7	96906	MS90725-	SCREWS, 1/4 IN.	16
8			LEADS, ELECTRICAL, MAKE FROM, WIRE 14 AWG, TERMINAL, 14-16 AGW, 3/8 STUD P/N 31900 (89110) REF. DES, FH51A, 1FH52S, 1 FH52V, 1 FH52W, 1 FH52X, FH51 G, RH51 R, IRH53A, IRH53B, IRH53C, IR53D, RH51T	
9	24446	9963653G1	RESISTOR, HEADLIGHT	1
10			LEAD, ELECTRICAL, MAKE FROM, WIRE 8 AWG P/N 9326091 (72915), TERMINAL, 8 AWG, STUD, 1/4 IN P/N 32417 (89110) REF DES, JU	1
11	24446	49A2933G1	RESISTOR, GENERATOR FIELD	1
			END OF FIGURE	

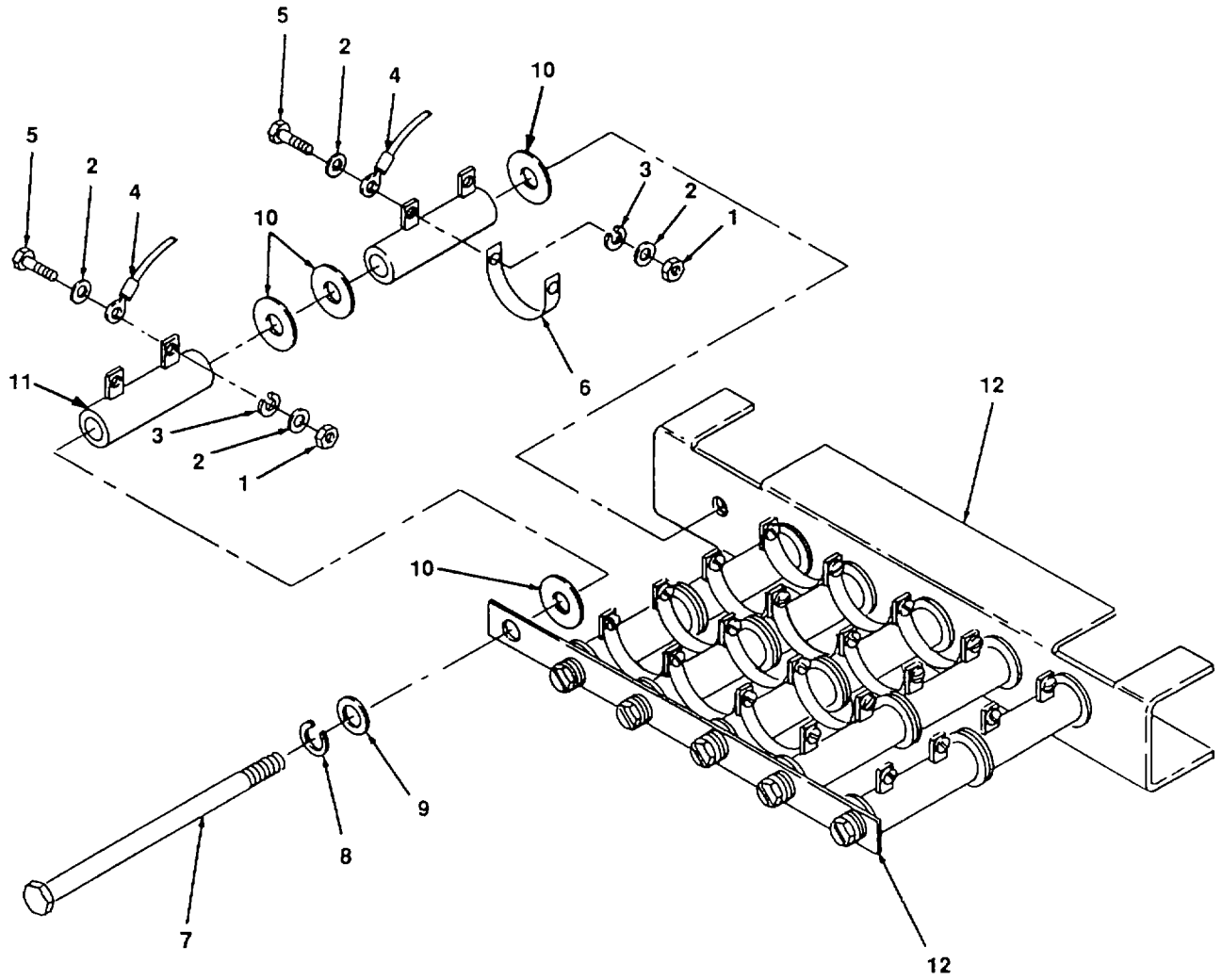


Figure 58. Gage Light Resistor

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 CONTROLS	
			FIG. 58 GAGE LIGHT RESISTOR	
1	96906	MS35649-202	NUT, 10-24	24
2	96906	MS27183-8	WASHER, FLAT, #10	24
3	96906	MS35338-43	WASHER, LOCK, #10	24
4			LEAD, ELECTRICAL, MADE FROM, WIRE, 14 AWG P/N 8491796 (72915) TERMINAL, 14 AWG #10, STUD, REF DES, GLA, GLB, GLC, GLD, GLE, GLF, GLG, GLH, GLJ, IGL, IWGXX	11
5	96906	MS35206-6	SCREW, HEX-HEAD, 10-24	24
6	96906		JUMPER	16
7	96906	MS90725	SCREW, HEX-HEAD, 1/4 IN X 5 IN LONG	6
8	96906	MS35338-44	WASHER, LOCK, 1/4	6
9	96906	MS27183-10	WASHER, FLAT, 1/4	6
10			INSULATOR	24
11	24446	482A44AS-18	RESISTOR, GAGE LIGHT	12
12	24446	41A22456G1	BRACKET	1
			END OF FIGURE	

5  
6 THRU 10

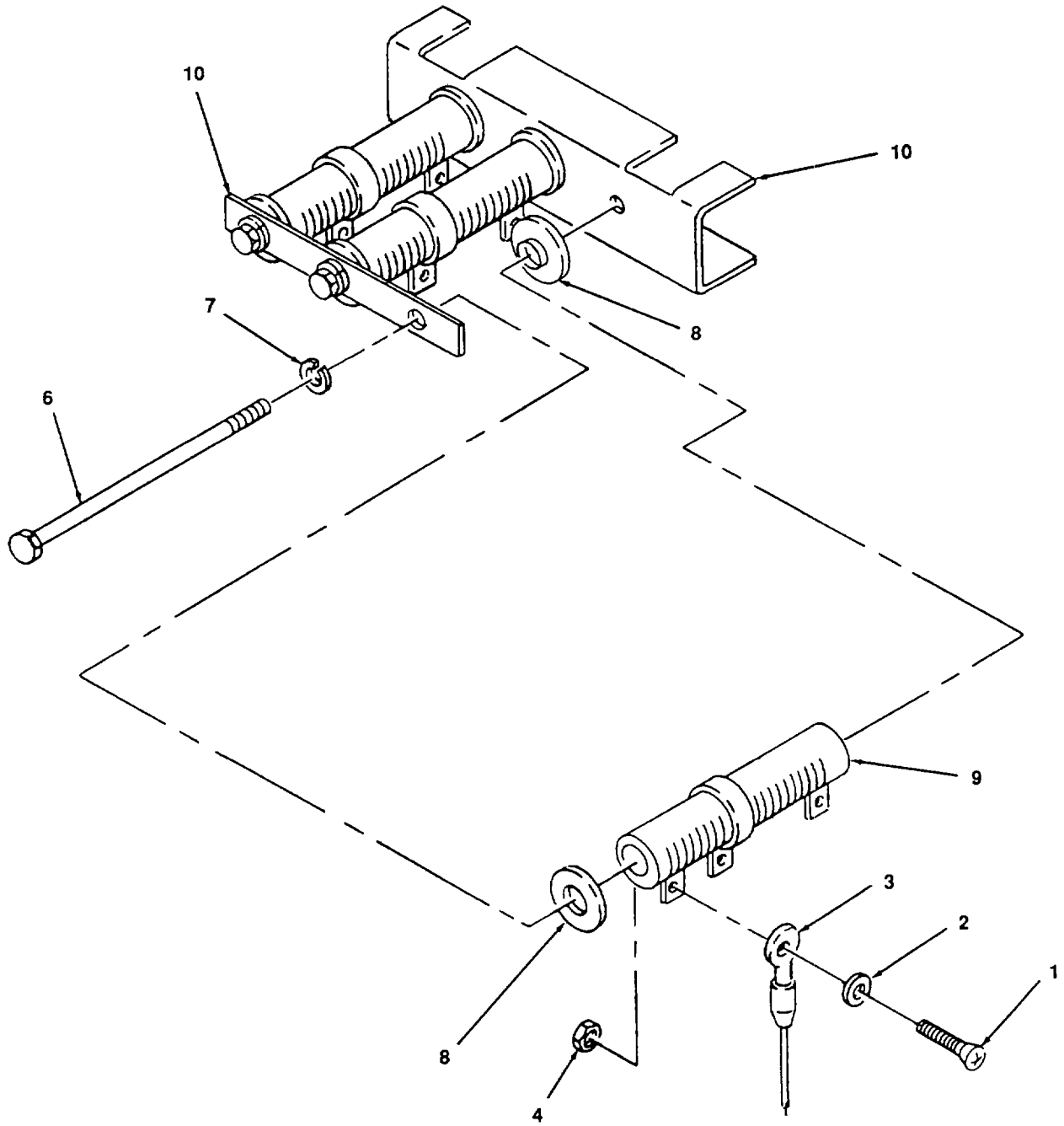
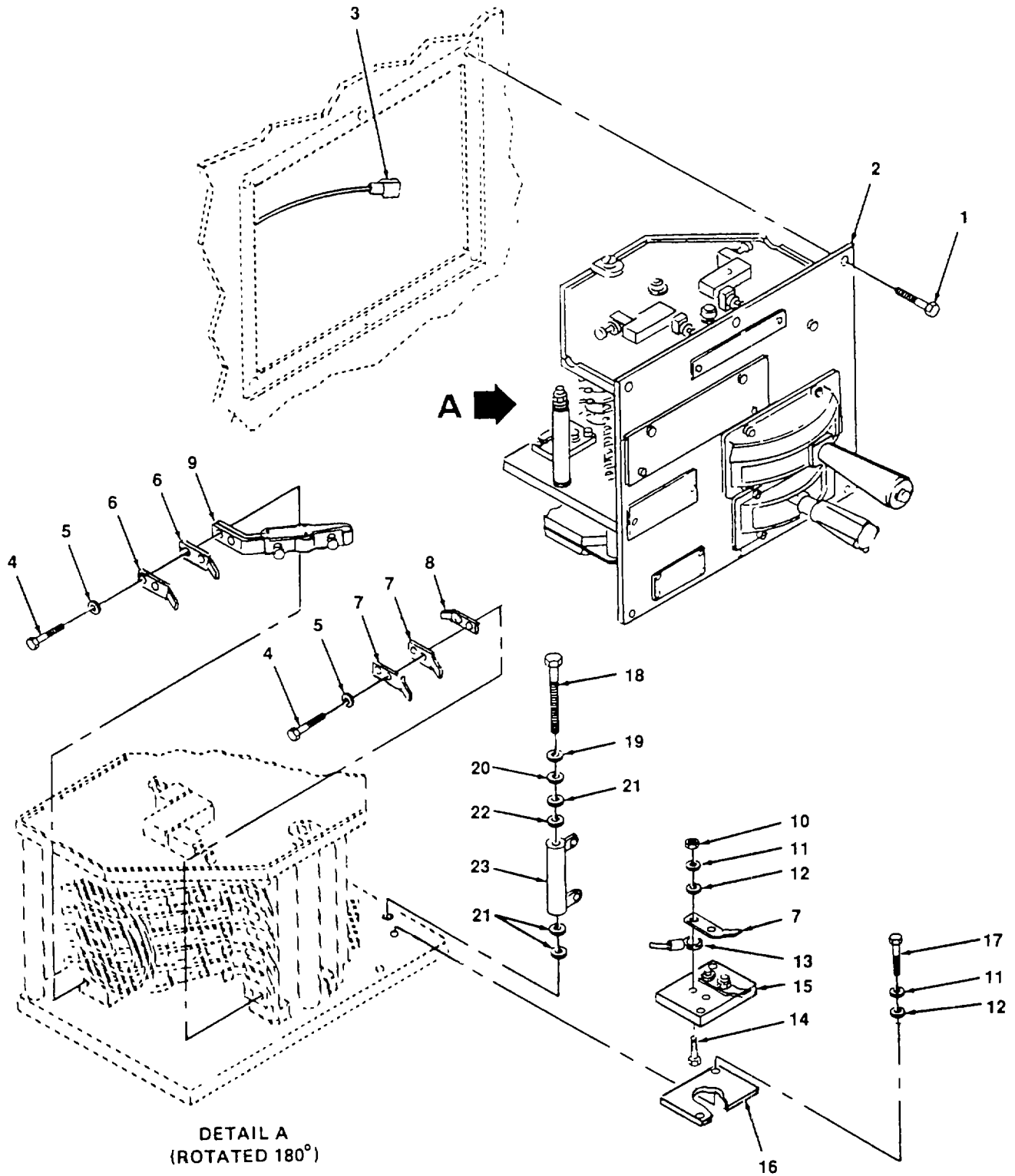


Figure 59. Wheel-Slip Relay Resistor

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 59 RESISTOR, ASSEMBLY, WHEEL SLIP RELAY	
1	96906	MS90725-3	SCREW, 1/4 IN.	7
2	96906	MS27183-10	WASHER, FLAT, 1/4 IN.	7
3			LEAD, ELECTRICAL, MAKE FROM, 14 AWG P/N 31906 (89110), TERMINAL, 14-16 AWG #10 STUD, P/N 8491796 (72195) REF DES, WS, WSA, J, AA1,1 AA3	7
4	96906	MS51967-03	NUT, 1/4 IN	7
5	24446	17FR45B3	RESISTOR ASSEMBLY, WHEEL SLIP RELAY	3
6	96906	MS90725	SCREW, 3/8 IN	3
7	96906	MS35338-46	WASHER, LOCK, 3/8 IN	3
8	24446		INSULATOR, 3/8 IN	6
9	24446	496A755G1	RESISTOR, WHEEL SLIP RELAY	3
10	24446	392A951G2	BRACKET	1
			END OF FIGURE	

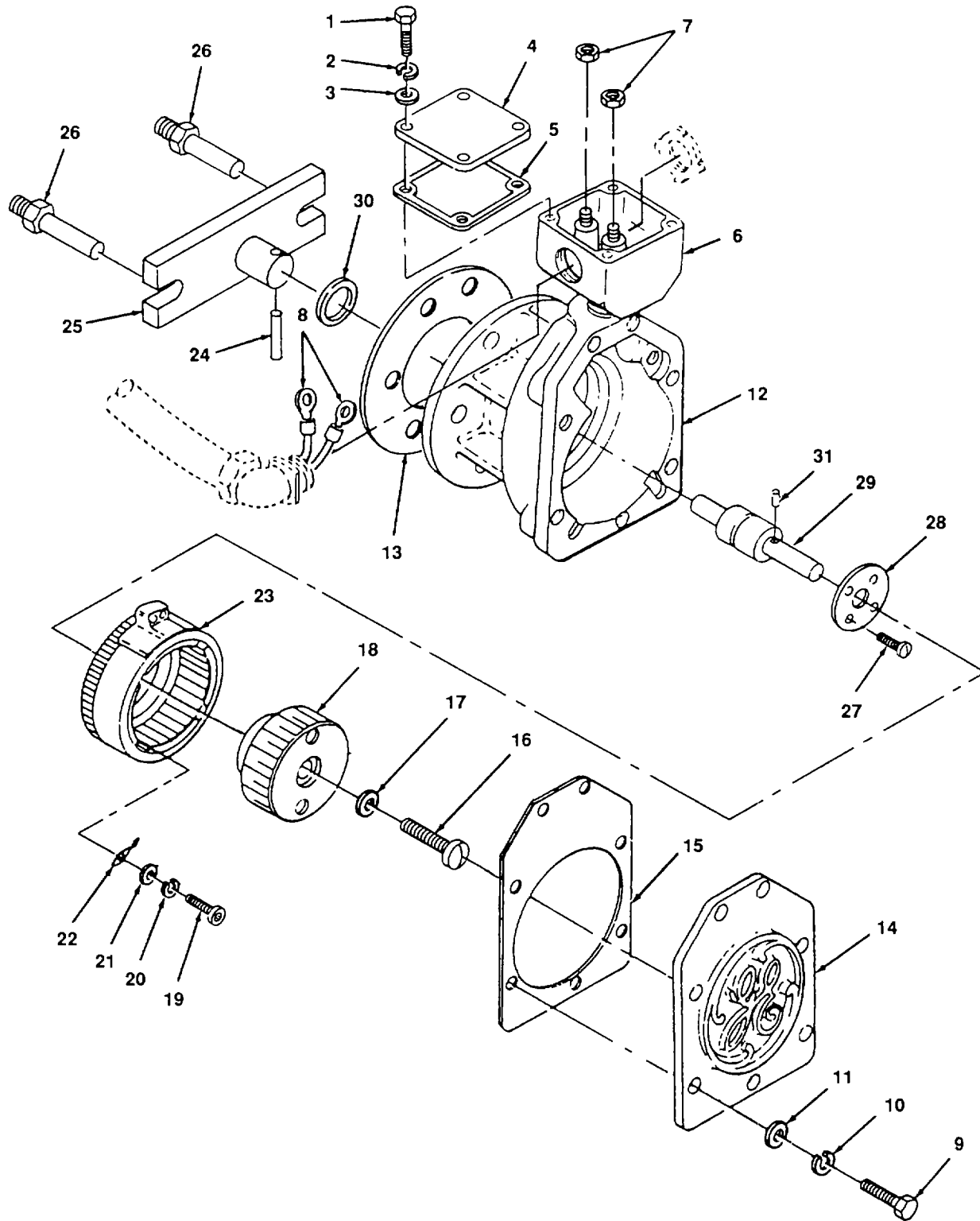


4834-060

Figure 60. Controller Mechanism



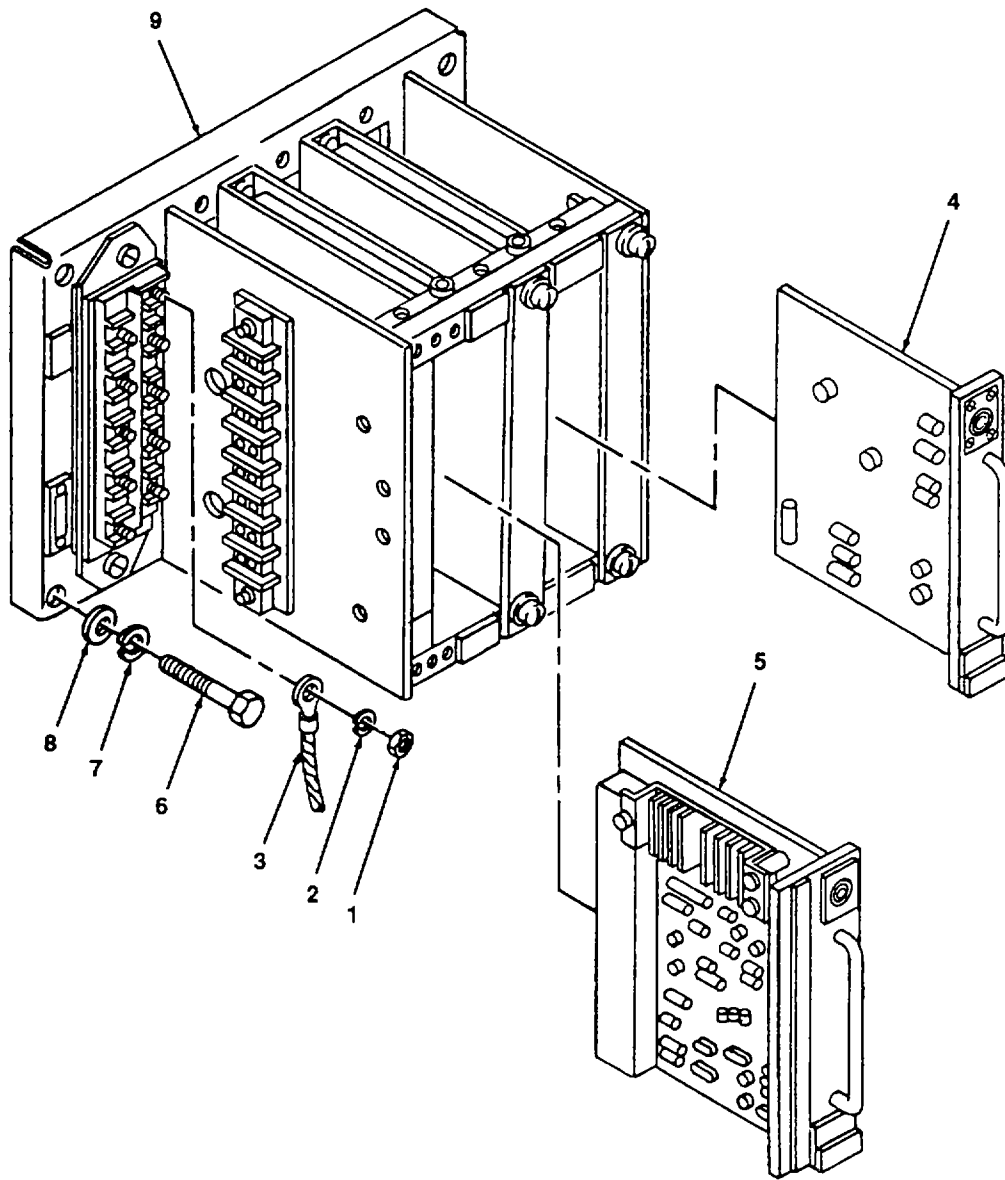
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 60 CONTROLLER MECHANISM	
1	96906	MS35206	SCREWS, MOUNTING	6
2	51225		CONTROLLER MECHANISM (17KC108 F1 (24443) MODIFIED AT DEPOT)	
3	72915	8491796	LEADS, WIRE HARNESS, MAKE FROM; 14 AWG 8491796 (72915) AND TERMINAL SPADE, P/N A2272 (46522)	30
4	80971	N44P16012B	SCREW, MACHINE, NO.10-32	22
5	96906	MS35338-45	WASHER, LOCK	22
6	80971	418562404G1	TERMINALS	11
7	80971	41A264656G1	TERMINALS	11
8	80971	482A768G1	CONTACT	11
9	80971	41A264589G1	FINGER	11
10	80971	N210P16B	NUT, 10-32	2
11	80971	N405P39B	WASHER, LOCK, 10-32	2
12	80971	N402P9B	WASHER, PLAIN, 10-32	2
13	72915	8491796	WIRE, ELECTRICAL, MAKE FROM, 8 AWG 9326091 (72915) AND TERMINAL LUG 324045 (89110)	
14	80971	N668P16010B	SCREW, HEX-HEAD, 10-32, 5/8 IN	2
15	80971	41B557061 P2	BASE, TERMINAL MOUNTING	1
16	80971	41B557061P3	SHIELD, BASE	1
17	80971	N668P16012B	SCREW, HEX-HEAD, 10-32,3/4 IN.	2
18	80971	N668P16076B	SCREW, 10-32, 43/4 IN	1
19	96906	MS35338-43	WASHER, LOCK	1
20	96906	MS27183-8	WASHER, FLAT	1
21	80971	41A250244P1	SPACER	2
22	80971	41A250243P1	WASHER, MICA	2
23	80971	482A444APP20	RESISTOR	
			END OF FIGURE	



4834 061

Figure 61. Alternator, Speed-Sensing.

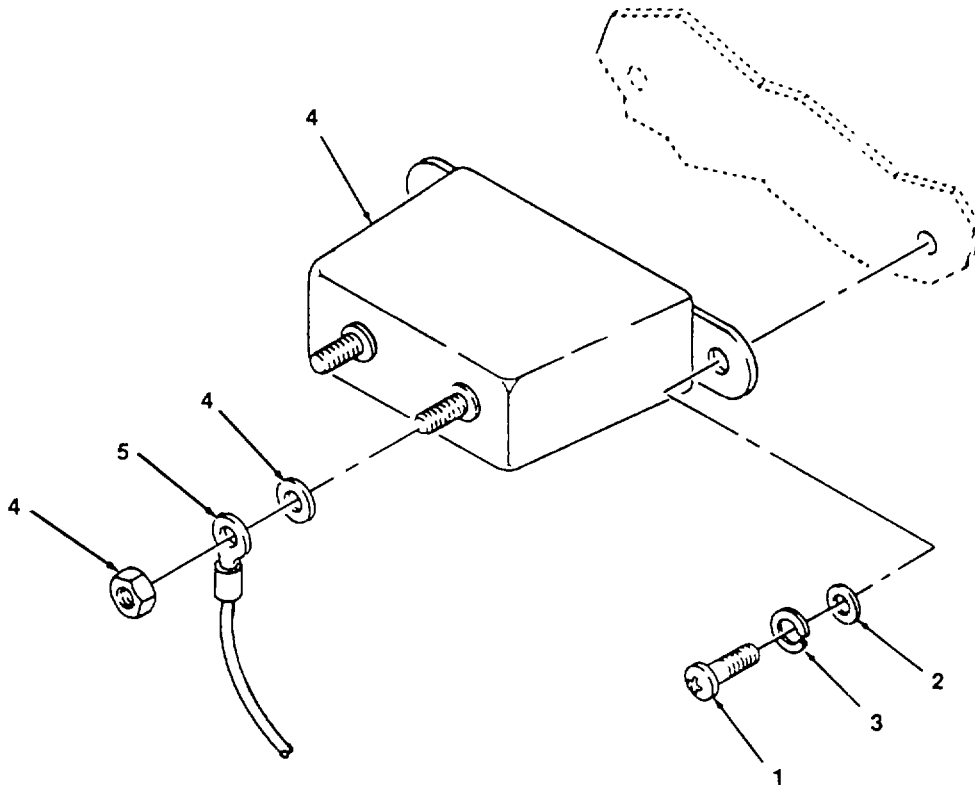
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 61 ALTERNATOR, SPEED-SENSING	
1	96906	MS90725	SCREW, CAP, 3/8	4
2	96906	MS35338-46	WASHER, LOCK, 3/8	4
3	96906	MS27183-14	WASHER, FLAT, 3/8	4
4	80971	41C650554P2	COVER	1
5	80971	41B550608P1	GASKET	1
6	80971	41B550612G1	TERMINAL BOX	1
7	06865	1222	NUT, CONDUIT, 1/2	2
8			LEAD, ELECTRICAL, MADE FROM 14 AWG, P/N 849176 (72915), TERMINAL, 14-16 AWG, STUD #10, REF DES, AA-, AA+	2
9	80971	6725130P7	SCREWS, HEX-HEAD	7
10	80971	N405P43B13	WASHER, LOCK	7
11	80971	N402P13B13	WASHER, FLAT	7
12	24446	17MM24AF1	ALTERNATOR, SPEED-SENSING	1
13	80971	8817294P1	GASKET	1
14	80971	341B769P1	COVER	1
15	80971	501A206P2	GASKET	1
16	80971	498A361P18	SCREW, LOCKING	1
17	80971	4715309P1	WASHER, FLAT	1
18	80971	41C662429P2	ROTOR	1
19	80971	N170P16008B13	SCREW	1
20	80971	N405P39B13	WASHER, LOCK	1
21	80971	N402P9B13	WASHER, FLAT	1
22	80971	498A989P1	SPRING, CLIPS	1
23	80971	41D756640G1	STATOR	1
24	80971		PIN, ROLL	1
25	80971	41A232196P1	YOKE, DRIVE	1
26	51225		PINS, DRIVE YOKE	2
27	80971	498A361P15	SCREWS	4
28	80971	312V166P1	RING, RETAINING	1
29	80971	501A207P2	SHAFT AND BEARING ASSY	1
30	80971	41A255521P1	SEAL, OIL	1
31	80971	N509P1914	PIN	1
			END OF FIG.URE	



4834-062

Figure 62. Panel, Transition Relay.

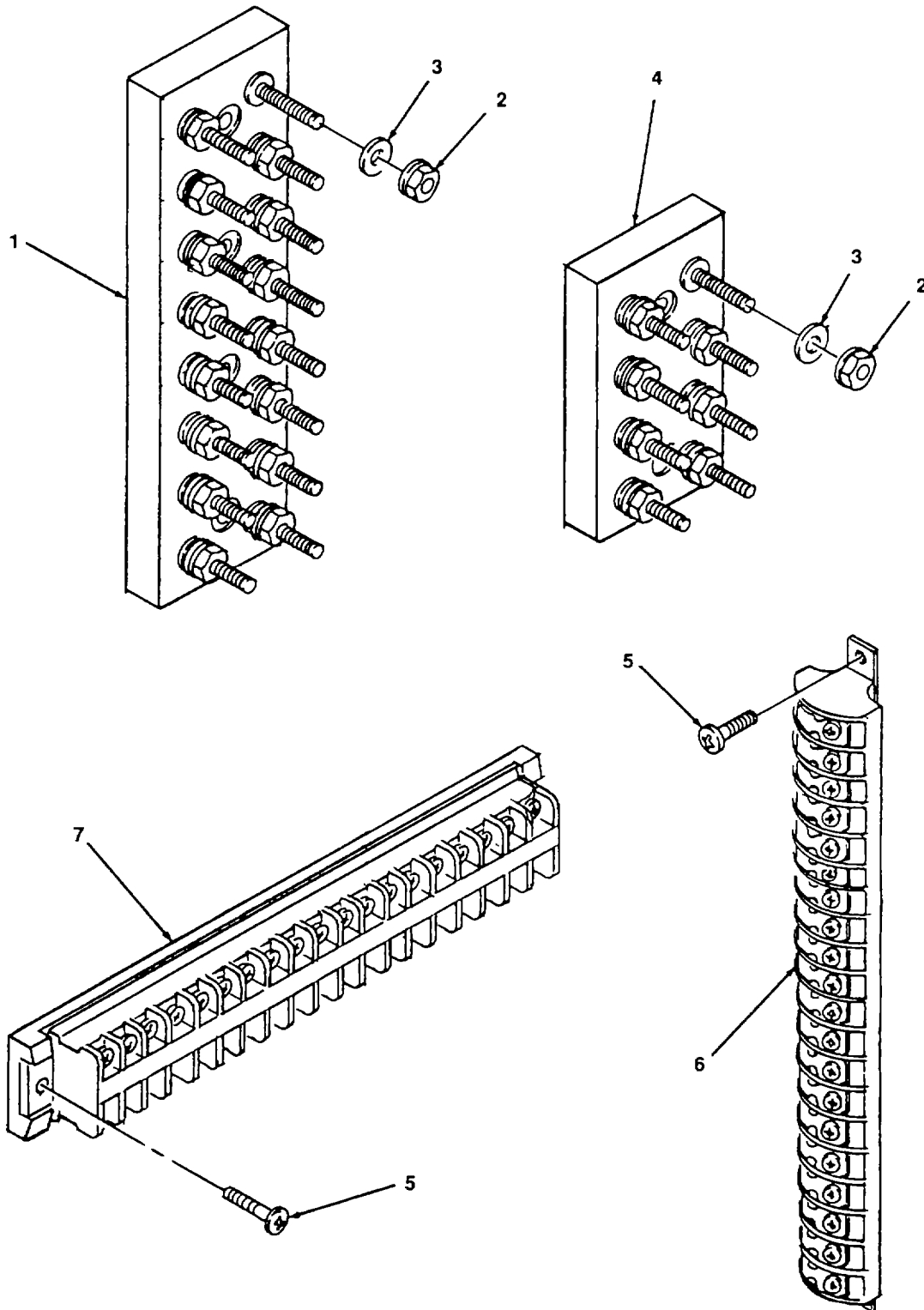
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 BRAKE SYSTEM, AIR	
			FIG. 62 PANEL, TRANSISTOR RELAY	
1	96906	MS35649-202	NUT	17
2	96906	MS35338-43	WASHER, LOCK	17
3			LEAD, ELECTRICAL, MAKE FROM; 14 AWG 8491796 (72915), TERMINAL LUG, 14-16 AWG P/N 31906 (89110) REF DES, J-TP2, K-N45 AND N46, M-AAT, N-AA-	17
4	24446	FD1139	CARD, SPEED-EVENT (TWO-CHANNEL)	1
5	24446	FD1137	CARD, TACH RECEIVER	1
6	96906	MS90725-69	SCREW, HEX-HEAD	4
7	96906	MS35338-46	WASHER, LOCK	4
8	96906	MS27183-14	WASHER, FLAT	4
9	24446	17FL182AN1	PANEL, RELAY	1
			END OF FIG.URE	



4834-063

Figure 63. Diodes, Blocking.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2 3	96906 96906 96906	MS35206- MS27183-6 MS35338-42	GROUP 10  FIG. 63 BLOCKING DIODE  SCREW, MACHINE, 8-32 X 1/2 IN WASHER, FLAT, #8 WASHER, LOCK LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG P/N 8491796 (72915), TERMINAL, #10 STUD, P/N 31906 (89110), REF DES; 1WB1OL, WB71N, 2GL, 2SD-51K, 1WS53J, WSE, WB71N, 3ET, BZ, 1WST, BZ2, BZ3, ES, 1ES, ESA, ES11 E, 2GFR1, SCP53G, BD1213, 1GFR21, BD13GR	18 18 18 21
4	24446	41B564808G1	DIODE, BLOCKING, REF. DES; BD1, BD2, BD3, BD4, BD5, BD7, BD8, BD12, BD13  END OF FIG.URE	9

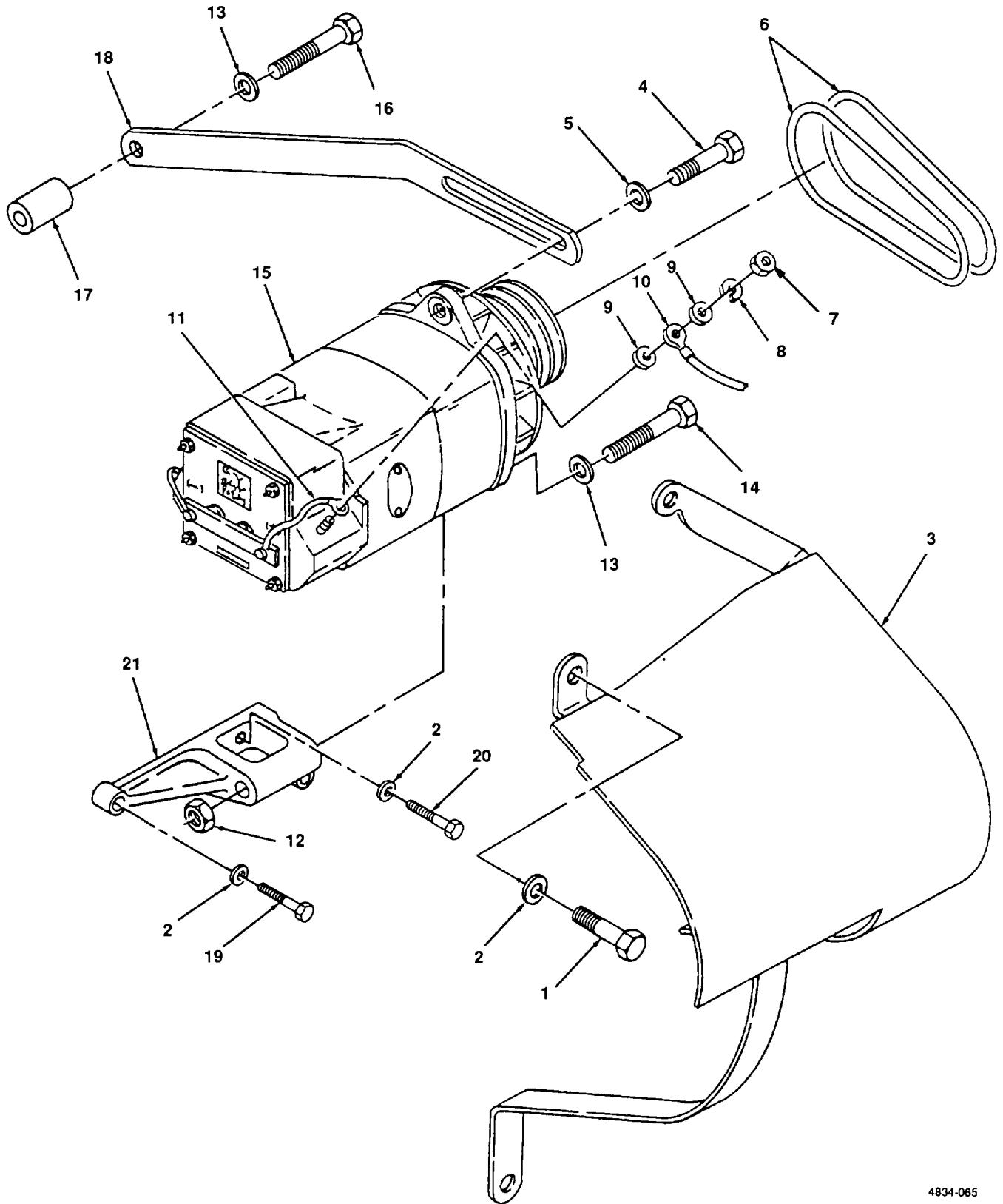


4834-064

Figure 64. Terminal Boards.



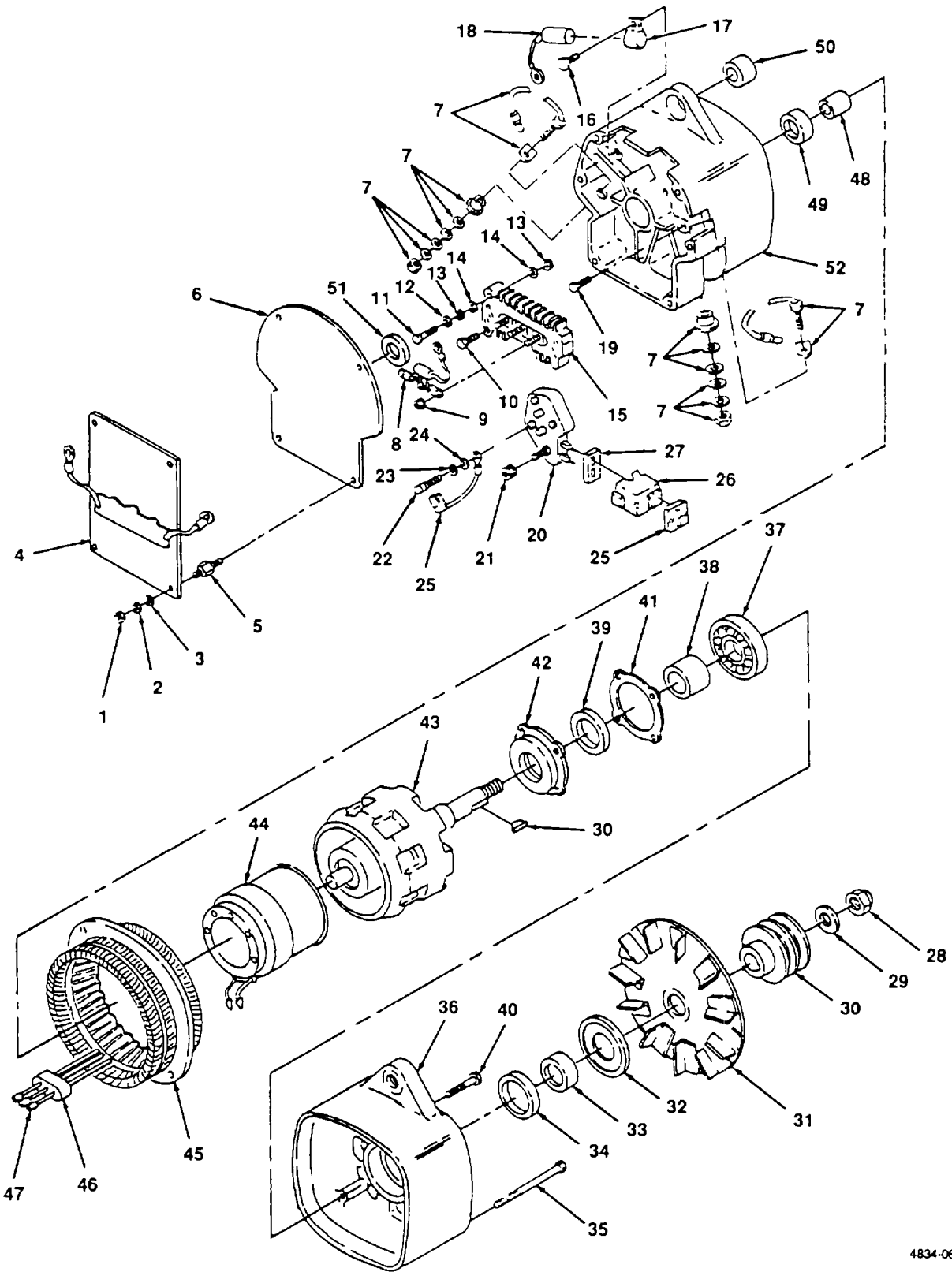
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 10 CONTROLS, ELECTRICAL GROUP	
			FIG.. 64 TERMINAL BOARDS	
1	72915	8458371	TERMINAL BOARD (TB 1,10,11,13,14,17,18, 61,51, 52 & 53	
2	96906	MS51922-1	NUT, SELF-LOCKING	24
3	96906	MS27183-10	WASHER, FLAT	24
4	72915		TERMINAL BOARD, MAKE FROM, 8458371 TB37838	2
5	96906	MS24617	SCREW, #10, 1 IN LONG	4
6	72915		TERMINAL BOARD (TB 19 & 20)	
7	72915		TERMINAL BOARD (TB 13 & 14)	
			END OF FIG.URE	



4834-065

Figure 65. Battery Charging Alternator.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 11 BATTERY CHARGING ALTERNATOR AND BELTS	
			FIG.. 65 BRUSHES, CARBON AND HOLDERS	
1	96906	MS90725-60	SCREW, CAP, HEX	3
2	96906	MS27183-14	WASHER, FLAT	5
3	51225	57-0264	GUARD, COVER, ALTERNATOR AND BELTS	1
4	15437	S-116-C	SCREW, CAP, HEX, 7/16-20 X 3 1/2	1
5	96906	MS27183-15	WASHER, FLAT, 7/16	1
6	96906	MS39257-3C112	BELT, FAN	2
7	96906		NUT, HEX (NSN 5310-00-997-1888)	2
8	96906	MS35338-44	WASHER, LOCK	2
9	96906	MS27183-10	WASHER, FLAT	4
10			LEAD, ELECTRICAL, MAKE FROM, WIRE, 6 AWG P/N 932091 (72915), TERMINAL, 6 AWG	2
11			516 STUD (NSN 5940-00-115-4991) (96906) LEAD, ELECTRICAL, MAKE FROM, WIRE, 14 AWG P/N 31906 (89910), TERMINAL 16-14 AWG 1/4 IN STUD, P/N 8491796 (72195) REF DES,	2
12	24446	70897	NUT, LOCK, 1/2-20	1
13	96906	MS27183-18	WASHER, FLAT, 1/2	2
14	24446	158829	SCREW, CAP, HEX, 1/2-20 X 6 1/2	1
15	24446	41B564010G1	ALTERNATOR MODULE	1
16	96906	MS90725-115	SCREW, HEX-HEAD, 1/2-13 X2	1
17	24446	66945	SPACER	1
18	24446	219160	LINK, ADJUSTING	1
19	96906	MS90725-64	SCREW, HEX-HEAD, 3/8-16 X 1 1/2	1
20	96906	MS90725-61	SCREW, HEX-HEAD, 3/8-16 X 1/4	1
21	24446	219159	BRACKET, LOWER	1
			END OF FIG.URE	

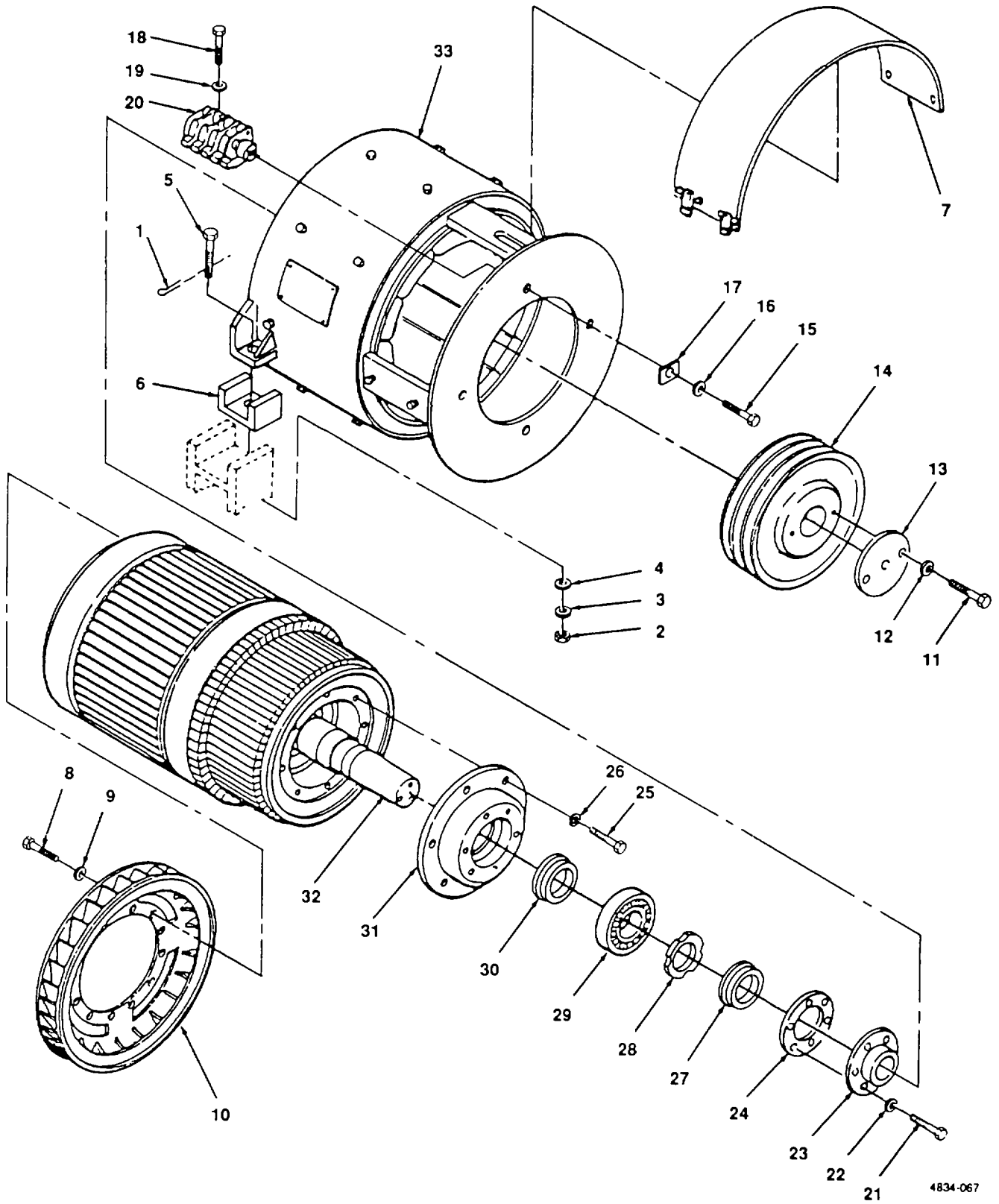


4834-066

Figure 66. Alternator Assembly.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 11 BATTERY CHARGING ALTERNATOR GROUP	
			FIG.. 66 ALTERNATOR ASSEMBLY	
1	96906	MS51967-03	NUT, #10	4
2	96906	MS35338-43	WASHER, LOCK	4
3	96906	MS27183-8	WASHER, FLAT	4
4	96906	41 A278796	ALTERNATOR MODULE PRINTED CIRCUIT	1
5	96906		STANDOFF	4
6	24446	1876814	COVER PLATE, RECTIFIER END	1
7	24446	1876897	TERMINAL PACKAGE, OUTPUT	2
8	24446	1851808	NUT AND WASHER	
9	24446	1876797	DIODE TRIO	2
10	24446	1846955	SCREW AND LOCKWASHER	1
11	24446	1894458	SCREW AND WASHER	1
12	24446	807295	WASHER, PLAIN (20" I. D.)	1
13	24446	1966879	BUSHING	1
14	24446	1919478	WASHER, PLAIN	1
15	24446	1880132	RECTIFIER, BRIDGE	1
16	24446	1846955	SCREW AND LOCKWASHER	1
17	24446	1880118	BRACKET	1
18	24446	1880046	CAPACITOR	1
19	24446	1968945	SCREW	1
20	24446	9418881	NUT	1
21	24446	1851808	NUT AND WASHER	1
22	24446	1976061	SCREW AND WASHER	1
23	24446	1913846	WASHER, INSULATING	1
24	24446	807295	WASHER, PLAIN	1
25	24446	801532	CAP, VOLT ADJ	1
26	24446	801548	CONNECTOR BODY, VOLT ADJ	1
27	24446	1876806	BOOT	1
28	24446	1987518	REGULATOR	1
29	24446	1905406	WASHER	1
30	24446	830279	PULLEY	1
31	24446	1969481	FAN	1
32	24446	1968891	SLINGER, GREASE	1
33	24446	1968890	COLLAR, OUTSIDE	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 66 ALTERNATOR ASSEMBLY (CONT)	
34	24446	1958509	SEAL	1
35	24446	1968891	BOLT	
36	24446	1852726	FRAME ASSEMBLY (INCLUDES ITEM 26)	1
37	24446	9439570	BEARING	1
38	24446	1968885	COLLAR, INSIDE	1
39	24446	1958509	SEAL	1
40	24446	1968994	SCREW	
41	24446	1968884	GASKET	1
42	24446	1970407	RETAINER, D E BEARING (INCLUDES ITEM 31)	1
43	24446	1968904	ROTOR ASSEMBLY	1
44	24446	1876768	COIL, FIELD	1
45	24446	1876769	STATOR ASSEMBLY (INCLUDES 38 AND 39)	1
46	24446	1876805	GROMMET	1
47	24446	1969671	CLIP	1
48	24446	9436063	BEARING, RACE, RECT END INNER	1
49	24446	9436064	BEARING, RACE, RECT END OUTER	1
50	24446	1892765	BUSHING	2
51	24446	1876813	PLUG	1
52	24446	1876760	HOUSING, RECTIFIER END	1
			END OF FIG.URE	



4834-067

Figure 67. Main Generator.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 12 MAIN GENERATOR	
			FIG.. 67 GENERATOR, MAIN	
1	96906		PINS, COTTER, 3/16 X 1 3/4 IN (NSN 5315-00-013-7258)	2
2	96906		NUT, SLOTTED HEX HEAD, GENERATOR MTG (NSN 5310-00-297-3247)	2
3	24446	87X416	SEAT, GENERATOR MTG	2
4	24446	4739835P2	PAD, RUBBER GENERATOR MTG LOWER	2
5	96906	MS90725-242	BOLT, MACHINE GENERATOR MTG , 1 IN -8 NC, 5 IN LONG (NSN 5305-00-0927)	2
6	24446	6729448P1	PAD RUBBER GENERATOR MTG, UPPER	2
7	24446	6733587G1 4757800	COVER, COMMUTATOR, INSPECTION WITH CLAMPING LEVERS	2
8	96906		SCREW, CAP	6
9	96906		WASHER, LOCK	6
10	24446	6734020G1	FLEXIBLE COUPLING, WITH FAN	1
11	96906		SCREW, CAP	3
12	96906		WASHER, LOCK	3
13	96906		PLATE	1
14	24446	6745967G3	PULLEY	1
15	96906	N26P23022B	SCREW, CAP	4
16	96906		WASHER, LOCK	4
17	96906		PLATE, LOCK	4
18	96906		SCREW, CAP	4
19	96906		WASHER, LOCK	4
20	24446	334B746G1	HOLDER, BRUSH (SEE FIG. 65 FOR BREAKDOWN)	4
21	96906	2088402	SCREW, CAP, BINDING	6
22	96906		WASHER, LOCK	6
23	24446	6733836P1	CAP, BEARING	1
24	24446	6709974P1	GASKET	1
25	96906	265042	SCREW, CAP	6
26	96906	54X547	WASHER, LOCK, 1/2 IN	6
27	24446		SLEEVE	1
28	24446		NUT, BEARING	1
29	52676	6313ZJ	BEARING	1
30	24446		SLINGER, OIL	1



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
31 32 33	24446 24446 24446	6733834P1 6751937G1	FIG. 67 GENERATOR, MAIN (CONT)  HOUSING, BEARING ARMATURE FRAME, MAGNET  END OF FIG.URE	1 1 1

5  
6 THRU 8

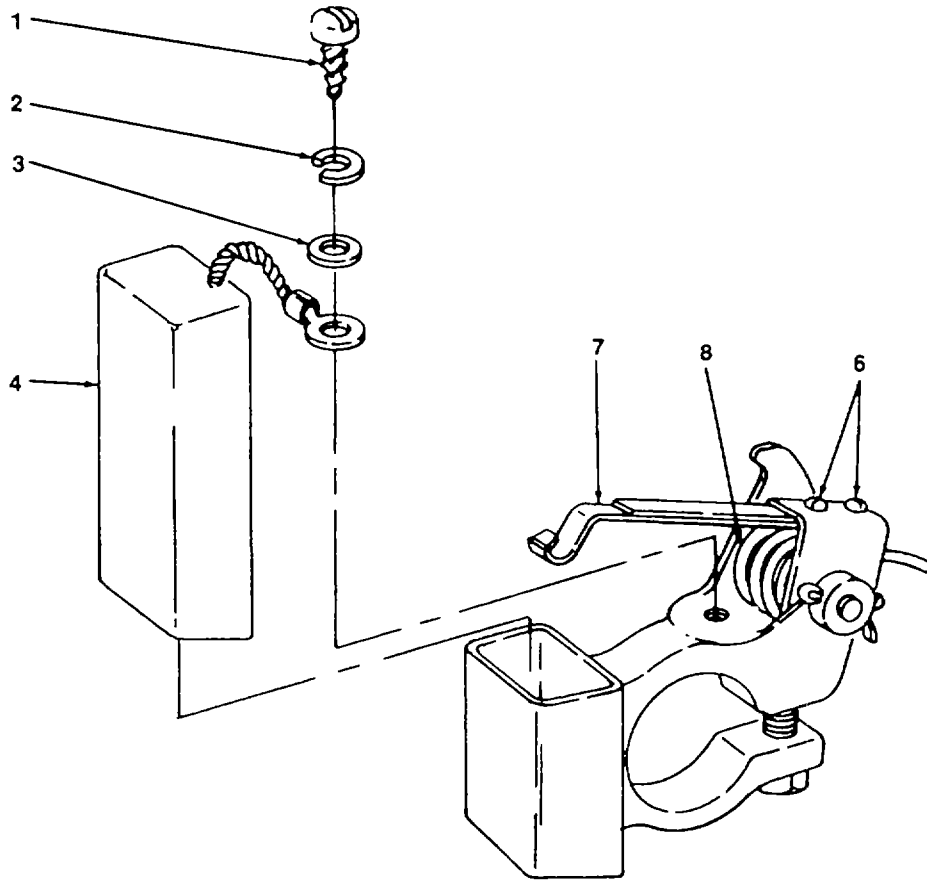
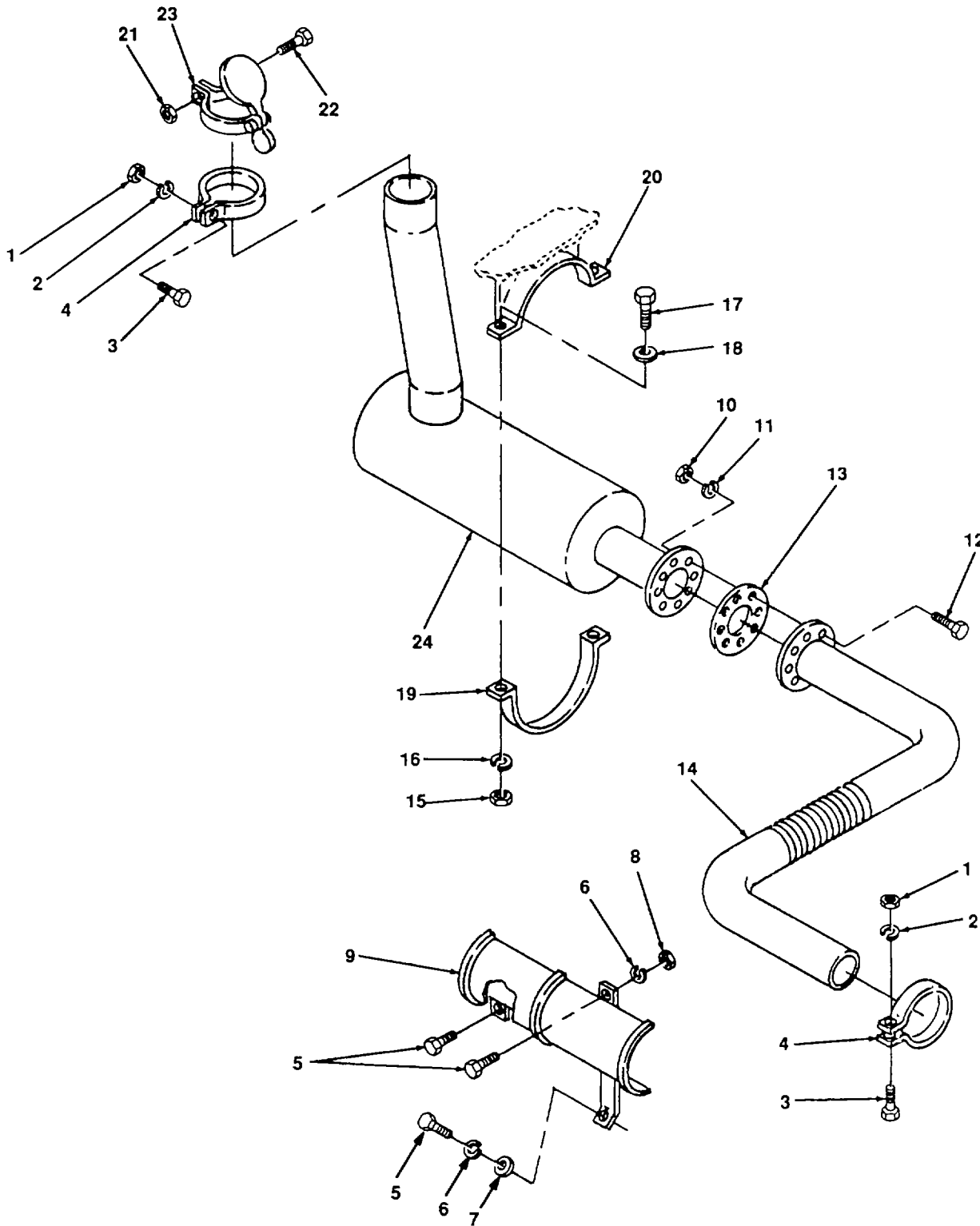


Figure 68. Brushes, Carbon and Holders

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 12 GENERATOR, MAIN	
			FIG.. 68 BRUSHES, CARBON AND HOLDERS	
1	96906		SCREW, METAL	1
2	96906		WASHER, LOCK	1
3	96906		WASHER, FLAT	1
4	24446		BRUSH, ELECTRICAL CONTACT W/PIGTAIL, (8820190) (24446) (NSN 5977-366-1564)	
5	24446		HOLDER, ELECTRICAL CONTACT ASSEMBLY W/PRESSURE ARM, 6733792G1 (24446) (NSN 5977-365-1565)	1
6	96906		SCREW, METAL	2
7			PRESSURE ARM	1
8	24446		SPRING, PRESSURE ARM	1
			END OF FIG.URE	



4834-069

Figure 69. Exhaust Muffler and Engine Pipe.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 13 EXHAUST SYSTEM	
			FIG.. 69 EXHAUST MUFFLER AND EXTENSION PIPES	
1	96906		NUT	2
2	96906		WASHER, LOCK, 3/8 IN	2
3	96906		SCREW, HEX HEAD	2
4	96906		CLAMP, EXHAUST PIPE	4
5	96906		SCREW, HEX HEAD	14
6	96906		WASHER, LOCK	12
7	96906		WASHER, FLAT	2
8	96906		NUT	2
9	24446		SHIELD, HEAT	2
10	96906		NUT, HEX HEAD	8
11	96906	MS35338-46	WASHER, LOCK	8
12	96906	MS90725-64	SCREW, HEX, 3/8 X 1 1/2 IN	8
13	24446	882550P2	GASKET, MUFFLER, PIPE	2
14	15434	M8833080	PIPE, EXHAUST	1
15	96906	MS51967-8	NUT, PLAIN HEX HEAD, 3/8-16 UNC	8
16	96906	MS35338-46	WASHER, LOCK, HELICAL, 3/8 STD	8
17	96906	MS90725-62	SCREW, CAP, HEX, 3/8-16 UNC X 1 25 LG	8
18	96906	MS27183-62	WASHER, FLAT	8
19	51225	57-0259-2	CLAMP, SHT, 13 STK, SAE 1018-1020, QQ-S-700	4
20	24446	57-0259-1	CLAMP, WELDED TO MOUNT, 13 STK, SAE 101B-1020, QQ-S-700	2 2
21	96906		NUT, HEX 3/8	4
22	96906		SCREW, HEX-HEAD	2
23	20796	11017	CAP, RAIN	2
24	76700	43150	MUFFLER, DIESEL ENGINE, (NSN 2990-00-673-3829)	2
			END OF FIG.URE	

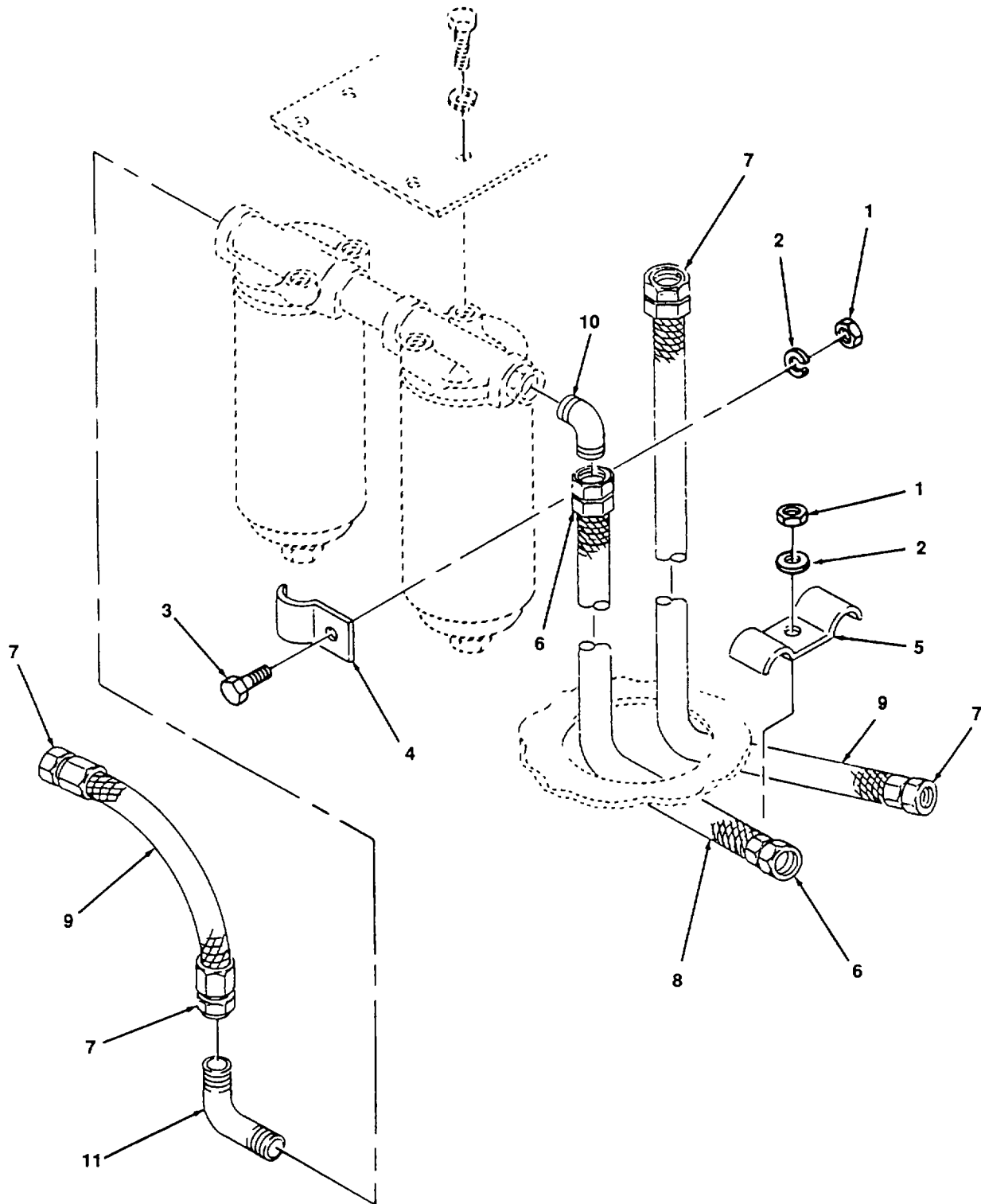
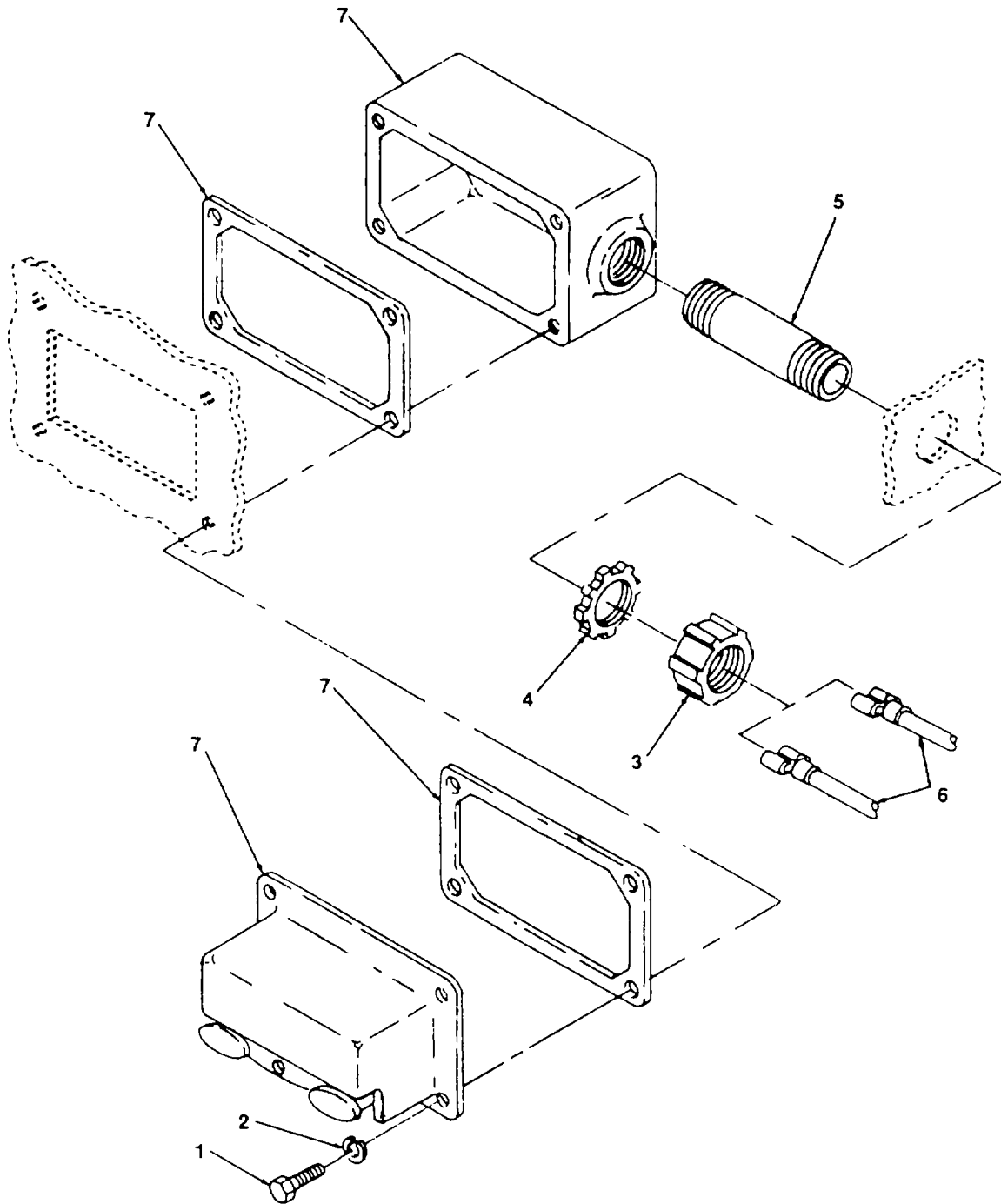


Figure 70. Lines and Fittings.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 14 FUEL SYSTEM	
			FIG.. 70 LINES AND FITTINGS, FUEL SYSTEM	
1	96906	MS51967-09	NUT, 3/8 IN.-16 UNC	2
2	96906	MS27183-14	WASHER, LOCK, 3/8 IN	6
3	96906	MS90725-60	SCREW, 3/8 X IN	5
4	96906	8108214	CLAMP, HOSE, SINGLE, 3/8 IN.	1
5			CLAMP, HOSE, DOUBLE	1
6	01276	4411-10S	FITTING, HOSE, 1/2 IN.	4
7	01276	4411-8S	FITTING, HOSE, 13/32 IN	2
8	01276	1503-10	HOSE, PICKUP, 1/2 IN	2
9	01276	1503-8	HOSE, RETURN	2
10	01276	2023-88	ELBOW, 900	1
11	30327	649F1-2X1-4	ELBOW, 900	1
			END OF FIG.URE	

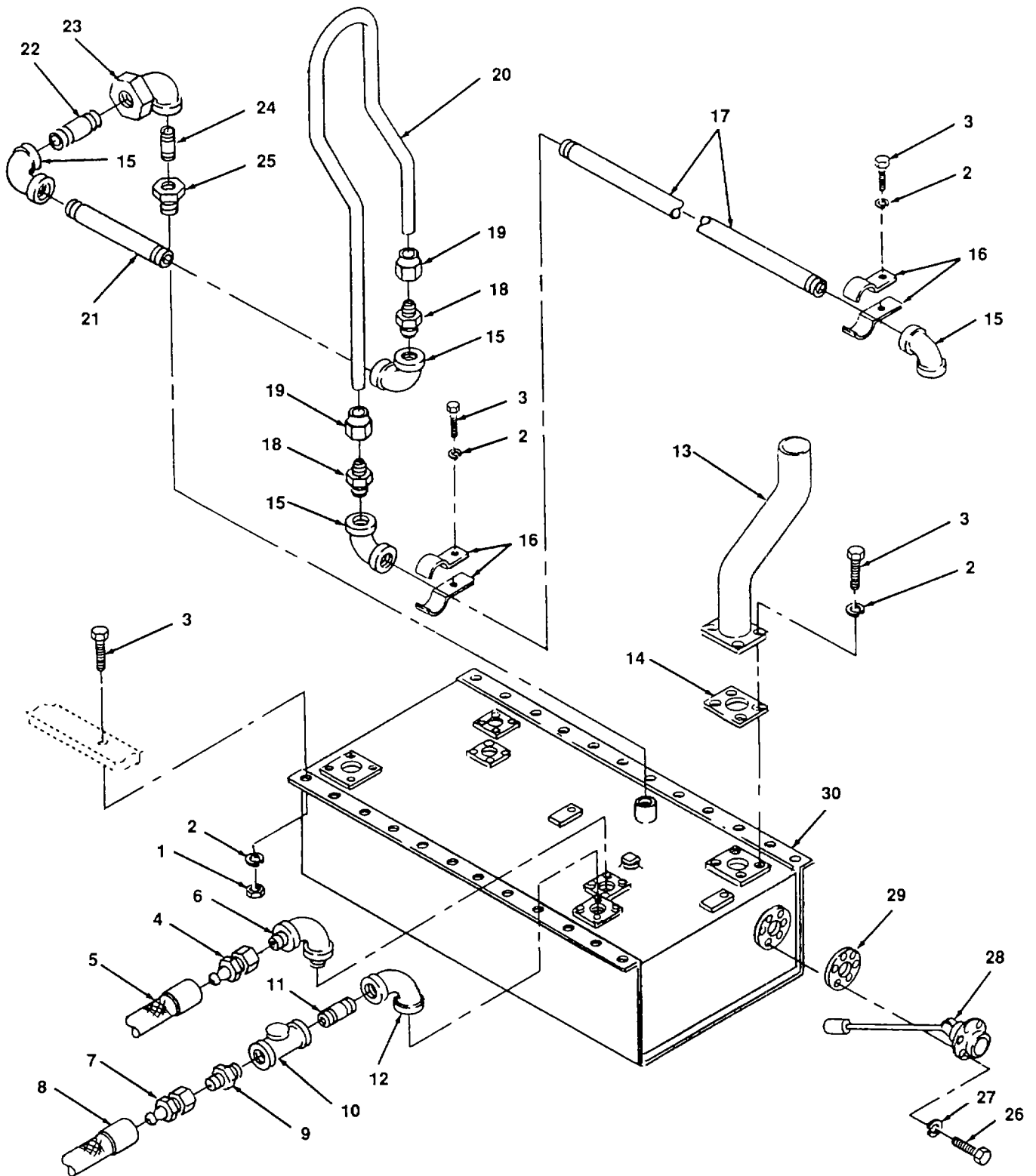


4834-071

Figure 71. Switch, Emergency Shutdown.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 14 FUEL SYSTEM	
			FIG.. 71 SWTICH, EMERGENCY SHUT DOWN	
1	96906	MS90725-6	SCREW, CAP, 1/4 IN -20 UNC	4
2	96906	MS35338-44	WASHERS, LOCK, 1/4 IN	4
3	05865	1222	BUSHING, INSULATED, 1/2 IN	1
4	06865	1222	NUT, CONDUIT, 1/2 IN	1
5	81348	8116953	CONDUIT, BUSHING, 1/2 IN.	1
6			LEAD, ELECTRICAL, 14 AWG, MADE FROM, P/N 8491796 (72915) TERMINAL, SPADE, 14-16 AWG, P/N A2272 (46522)	2
			REF DES, 11E148, 1E5148	
7	24446	41A203449P3	SWITCH, EMERGENCY SHUTDOWN	1
			END OF FIG.URE	



4834-072

Figure 72. Fuel Tank and Level Gauge.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 14 FUEL SYSTEM	
			FIG.. 72 TANK, FUEL AND GAGE LEVEL	
1	96906	MS51967-09	NUT, HEX-HEAD	24
2	96906	MS35338-46	WASHER, LOCK	29
3	96906	MS90725-61	SCREW, CAP, 3/8-16 X 1 1/4 IN	29
4	01276	4411-8S	FITTING, HOSE, 13/32 IN	1
5	01276	1503-8	HOSE, RETURN 13/32 IN X 16 FT	1
6	01 276	2024-8-88	ELBOW, ADAPTER PIPE TO FLARE, 1/2 TO 3/4 IN	1
7	01276	4411-1 OS	FITTING, HOSE, 1/2 IN	1
8	01276	1503-10	HOSE, PICKUP, 1/2 IN X 14 FT	1
9	01276	2021-8-108	ADAPTER, PIPE TO FLARE, 1/2 TO 7/8	1
10			VALVE, CHECK, 1/2 IN (NSN 4820-00-287-4376)	1
11	96906	MS51953-758	NIPPLE, 1/2 X 1 1/2 IN	3
12	72423	1203-100	ELBOW, STREET, 90°, 1/2 IN	1
13			PIPE, FUEL FILLER	2
14	96906		GASKET, MADE FROM VELLUMOID	6
15	72423	1201-060	ELBOW, 90°	4
16			CLAMP, 3/8 IN 2 PIECE	2
17	72423	ASTM A120	PIPE, SCHEDULE 40, 3/8 IN X 2 FT	
18	96906	MS51500-88	ADAPTER, PIPE TO FLARE, 3/8 TO 1/2 IN	2
19	96906	MS35872-4	NUT, FLARE, 1/2 IN	2
20	95535	55229	TUBING, COPPER, 1/2 IN X 5 FT	1
21	96906	MS51953-618	NIPPLE, 3/8 X 5 IN	1
22	96906	MS51953-558	NIPPLE, 3/8 X 2 IN	1
23	72423	1643-060	UNION, ELBOW 90°, 3/8 IN	1
24	96906	MS51953-498	NIPPLE, CLOSE, 3/8 IN	1
25	72423	2071-197	BUSHING, REDUCER 1 TO 3/8 IN	1
26	96906	MS35206-6	SCREW, PAN-HEAD, 1/4 IN	6
27	96906	MS35338-44	WASHER, LOCK	6
28	24446	8861496	GAGE, FUEL LEVEL	1
29	24446		GASKET	1
30	97403	1328E2154	TANK	1
			END OF FIG.URE	

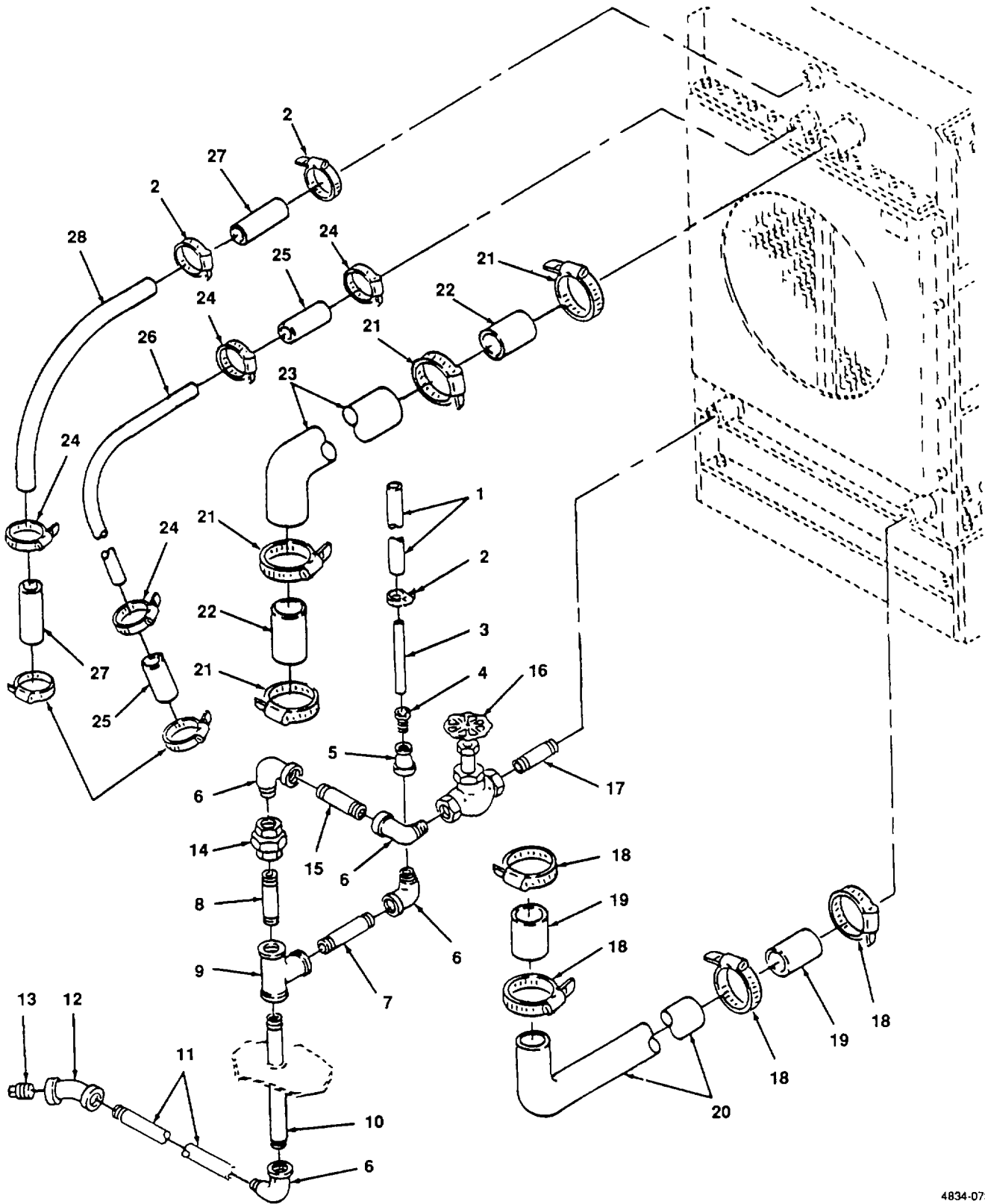
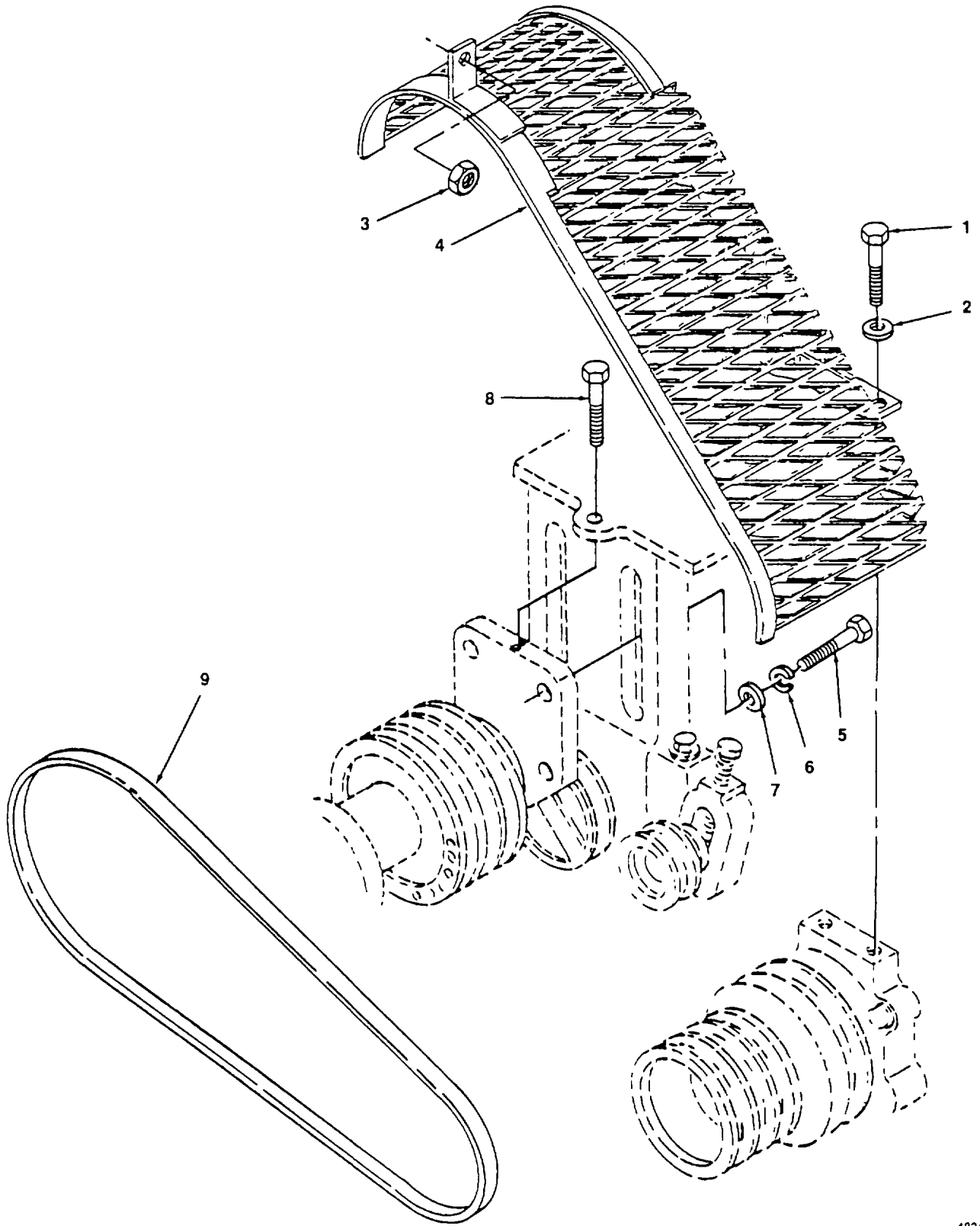


Figure 73. Hoses and Clamps.

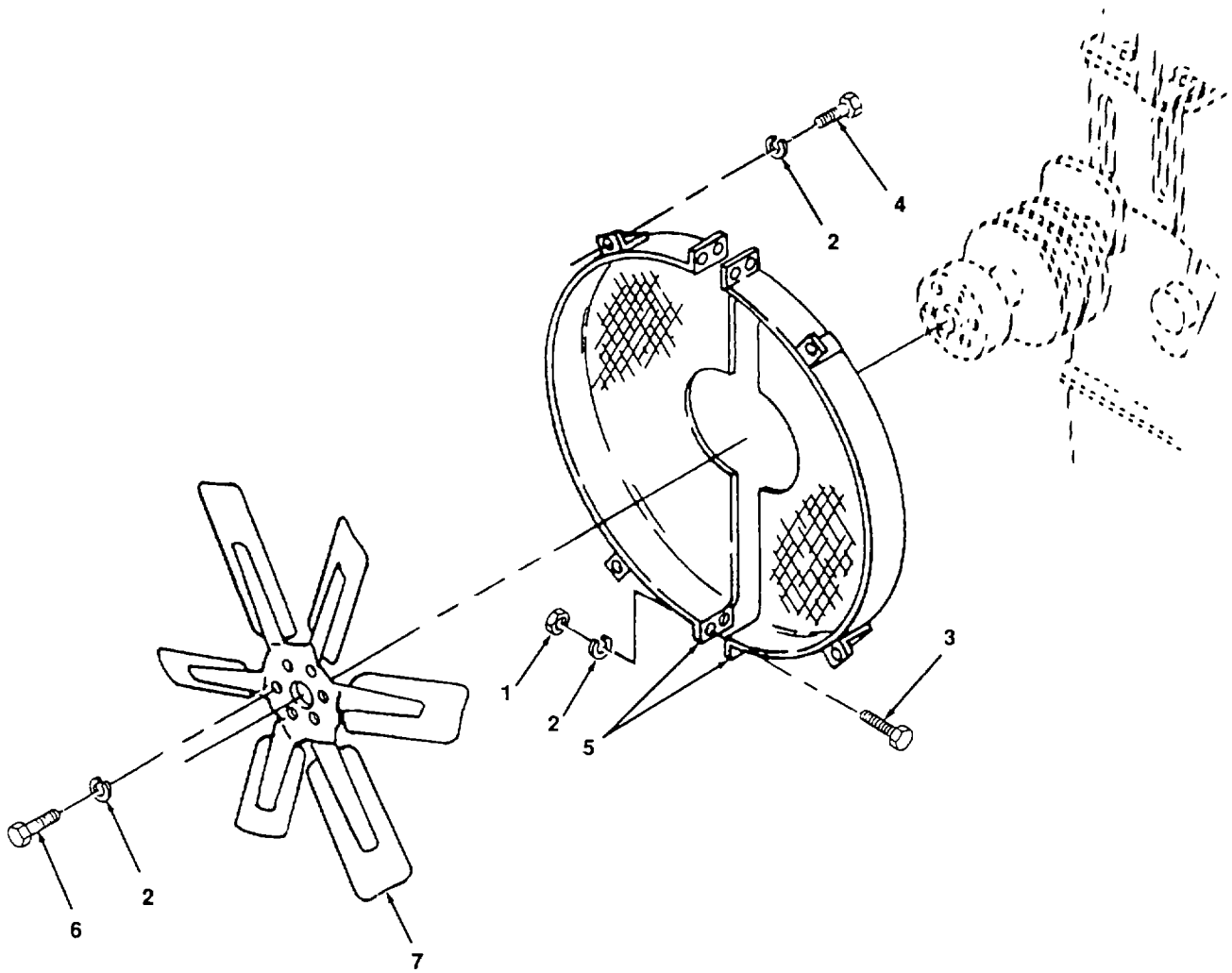
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 15 COOLING SYSTEM	
			FIG. 73 HOSES AND CLAMPS	
1	96906		HOSE, RUBBER, 1/4 IN	1
2	96906		CLAMP, HOSE, #6 (NSN 470-00-908-3195)	2
3	96906		NIPPLE, 1/4 X 2 1/2 IN	1
4	96906		ADAPTER, 1/4 IN	1
5	72423		BELL, 1/2-1/4 IN (NSN 4730-00-595-0782)	1
6	72423	1203-100	ELBOW, STREET 900, 1/2 IN	3
7	96906		NIPPLE, 1/2 X 3 IN (NSN 4730-00-188-1880)	2
8	96906		NIPPLE, 1/2 X 3 IN (NSN 4730-00-188-1880)	1
9	72423	1221-100	TEE, 1/2 IN (NSN 4730-00-277-9982)	1
10	96906		PIPE, 1/2 X 10 3/4	1
11	96906		PIPE, 30" 1/2 IN	1
12	72423	1202-100	ELBOW, 45°, 1/4 IN	1
13	96906		PLUG, 1/2 IN	1
14	72423	1641-040	UNION, 1/2 IN	1
15	96906		NIPPLE, 1/2 X 1 1/2 IN (NSN 4730-00-478-4161)	1
16	96906		COCK, VALVE, DRAIN (NSN 4820-00-988-9195)	1
17	96906		NIPPLE, 1/2 X 4 IN (NSN 4730-00-188-1883)	1
18	96906		CLAMP, HOSE #44 (NSN 4730-00-277-6199)	4
19	96906		HOSE, RUBBER, 2 1/2 IN. (NSN 4720-00-529-5276)	2
20			PIPE, "L", 2 1/2 IN	1
21	96906		CLAMP, 2 IN, #40 (NSN 4730-00-277-7132)	4
22	96906		HOSES, RUBBER, 2 IN (NSN 470-00-822-8163)	3
23			PIPE, L, 2 IN	1
24	96906		CLAMP, HOSE, 3/4 #16	4
25	96906	MS5201301B204360	HOSE, RUBBER, 3/4 IN (NSN 4720-00-235-4125)	2
26	96906		PIPE, 3/4 IN	1
27	96906		HOSE, RUBBER, 1/2 IN, HIGH TEMP (NSN 4720-00-640-5439)	2
28	96906		PIPE, 1/2 IN	1
			END OF FIG.URE	



4834-074

Figure 74. Belts, Cooling Fan,

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 15 COOLING SYSTEM	
			FIG.. 74 BELTS, COOLING SYSTEM	
1	96906	MS90725-16	SCREW, HEX HEAD	2
2	96906	MS35338-46	WASHER, LOCK	2
3	96906	MS51967-09	NUT	1
4	51225	57-0263	GUARD	1
5	96906	MS35206-13	SCREW, CAP	4
6	96906	MS35338-44	WASHER, LOCK	4
7	96906	MS27183-10	WASHER, FLAT	4
8	96906	MS90725-64	SCREW, CAP, ADJUSTING	1
9	96906	MS39257-3C112	BELT, FAN	3
			END OF FIG.URE	



4834-075

Figure 75. Cooling Fan Assembly.



## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 15 COOLING SYSTEM	
			FIG. 75 FAN ASSEMBLY, COOLING	
1	96906	MS51967-03	NUT, 1/4 IN -20 UNC	4
2	96906	MS35338-44	WASHER, LOCK, 1/4 IN	14
3	96906	MS90725-6	SCREW, HEX HEAD, 1/4-20 X 3/4	10
4	96906	MS90725-8	SCREW, HEX HEAD, 1/4-20 X 1	4
5	51225	570265	SCREEN, FAN EXPANDED METAL	1
6	96906	MS90725-40	SCREW, HEX HEAD	6
7	65072		FAN	1
			END OF FIGURE	

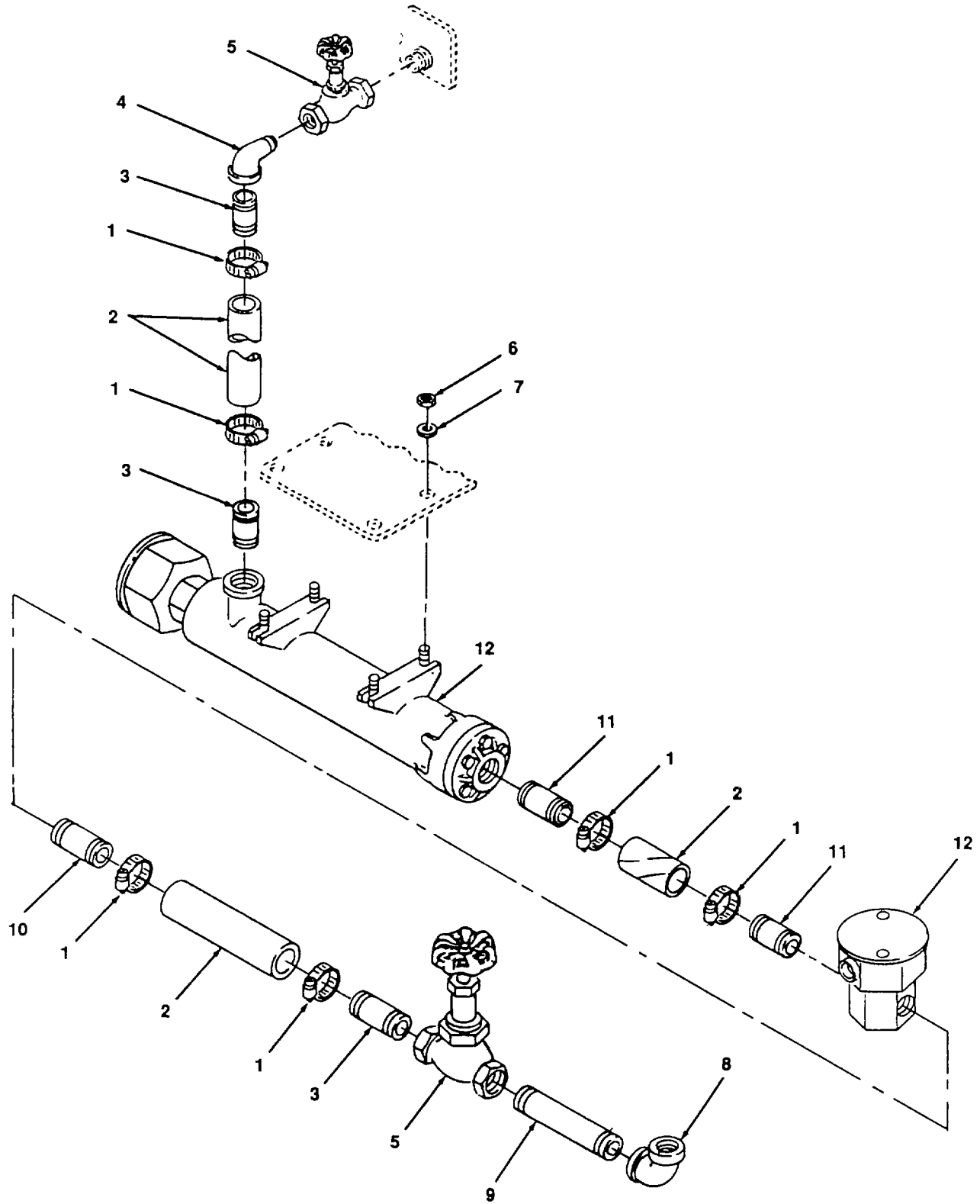
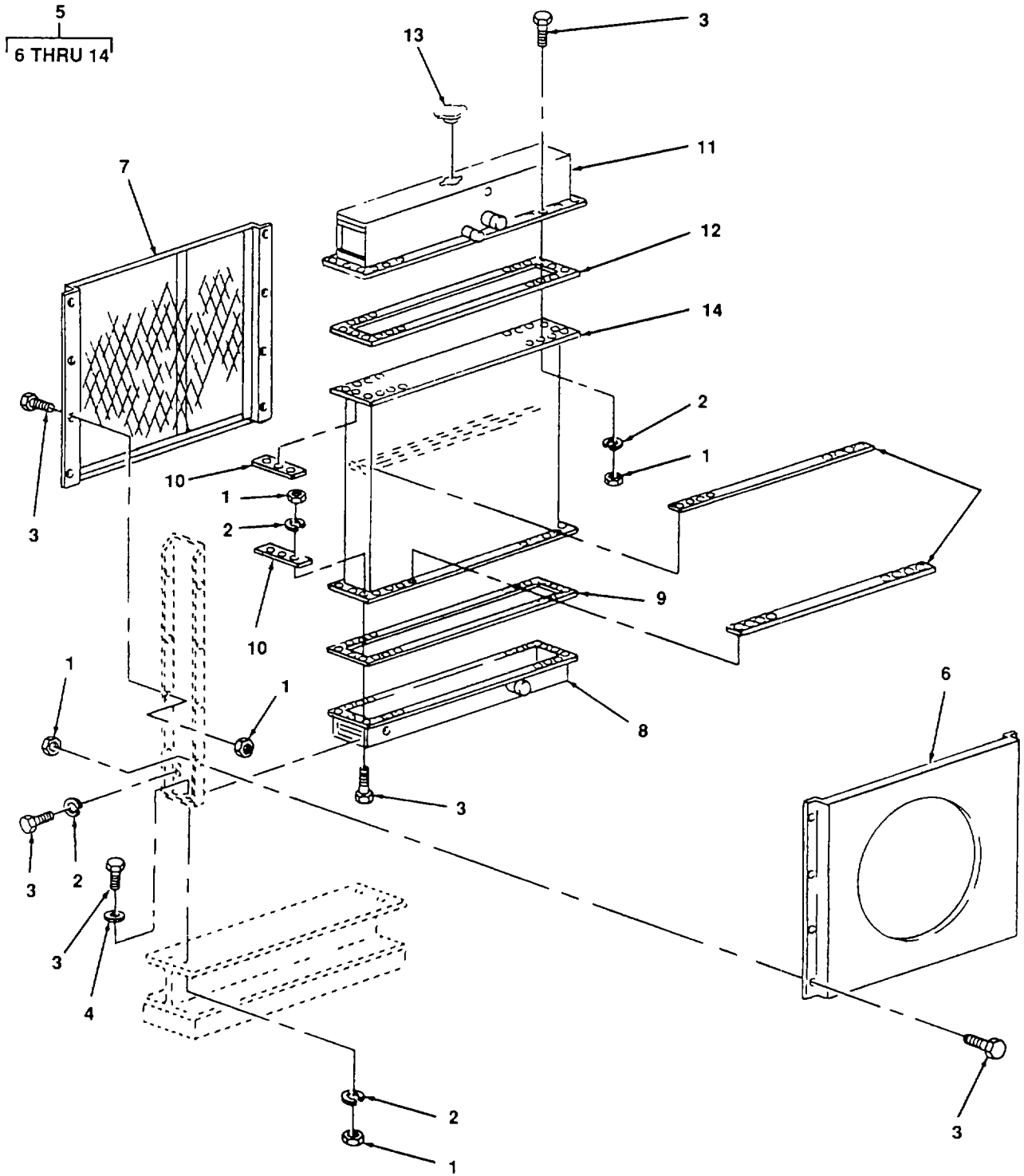


Figure 76. Heater, Engine Block.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 15 COOLING SYSTEM	
			FIG. 76 ENGINE BLOCK HEATER	
1	96906		CLAMP, HOSE #28	4
2	96906		HOSE, RUBBER, 1 1/4 IN (NSN 4720-00-235-4128)	2
3	96906	MS51873-126B	NIPPLE, 3 IN	3
4	96906		ELBOW, STREET 900 (NSN 4730-00-083-2900)	1
5	96906		VALVE, GATE, 1 IN (NSN 4820-00-684-6169)	2
6	96906	MS51922-17	NUT, 3/8 IN -16 UNC	4
7	96906	MS27183-14	WASHER, FLAT, 3/8 IN	4
8	96906	1201-200	ELBOW, 900, 1 IN	1
9	96906	MS51873-128b	NIPPLE, 1 X 4 1/4 IN	1
10	96906	MS51873-123B	NIPPLE, 1 1/2 IN	1
11	96906	MS51873-129B	NIPPLE, 1 X 4 1/2 IN (NSN 4730-00-193-2700)	2
12	95408	BSCP11-2500	HEATER, ENGINE BLOCK	1
			END OF FIGURE	



4834-077

Figure 77. Radiator.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 15 COOLING SYSTEM	
			FIG. 77 RADIATOR	
1	96906	MS51967-09	NUT, 3/8	4
2	96906	MS27183-14	WASHER, LOCK, 3/8	4
3	96906	MS90725-62	SCREW, HEX HEAD, 3/8 X 1 1/4	8
4	96906	MS27183-14	WASHER, FLAT, 3/8	4
5	65072	CN063259	RADIATOR	1
6	65072		SHROUD, FAN	1
7	65072		GUARD, CORE	1
8	65072		TANK, HEADER BOTTOM	1
9	65072		GASKET, TANK (NSN 5330-796-4335)	2
10	65072		BARS, HEADER SHORT	4
11	65072		BARS, HEADER LONG	4
12	65072		TANK, HEADER TOP	1
13	65072		CAP, RADIATOR	1
14	65072		CORE, RADIATOR	1
			END OF FIGURE	

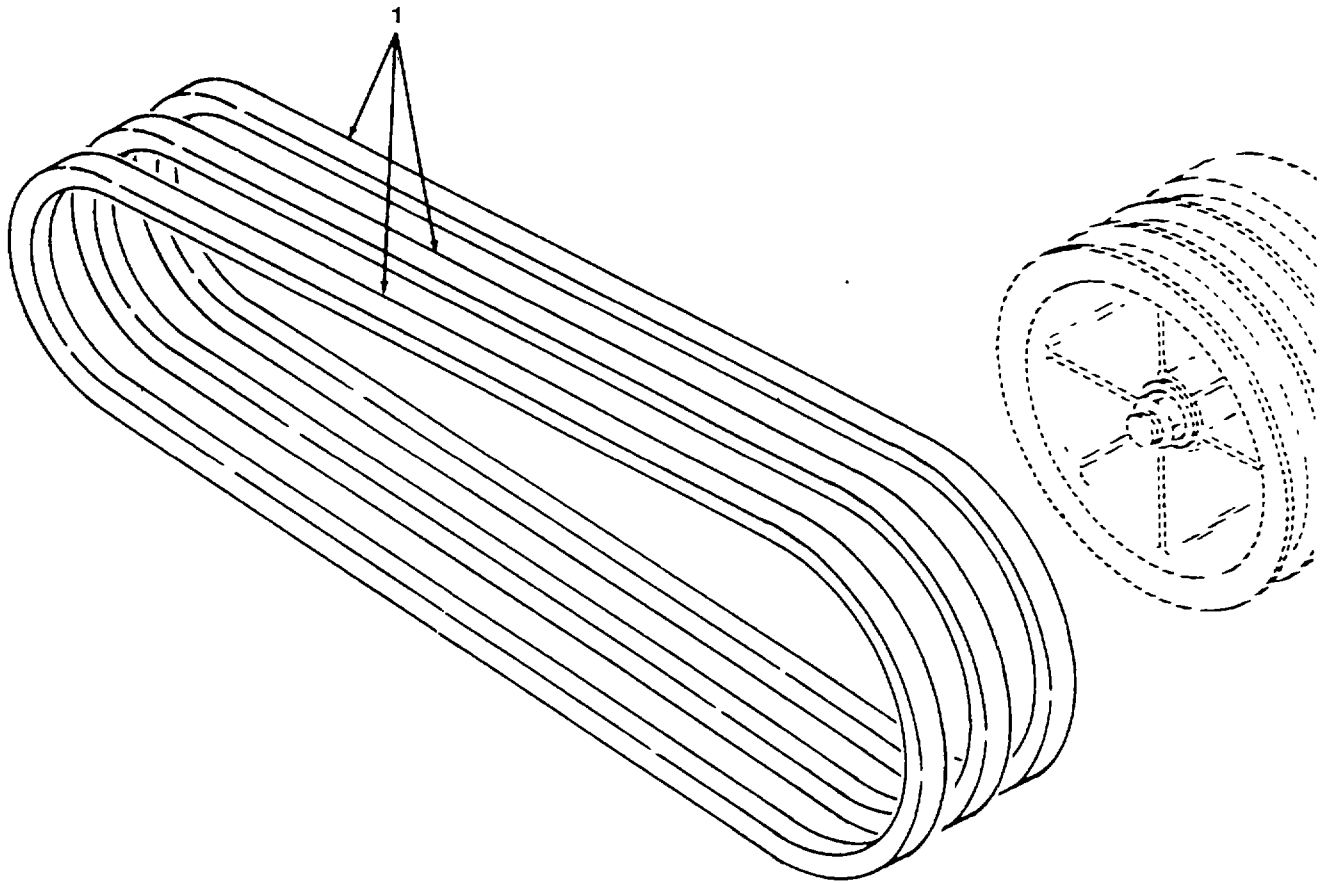


Figure 78. Belts, Air Compressor.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1	96906	MS39257-3C112	GROUP 16 AIR COMPRESSOR FIG. 78 BELTS, AIR COMPRESSOR BELT, DRIVE, MATCHED SET END OF FIGURE	1

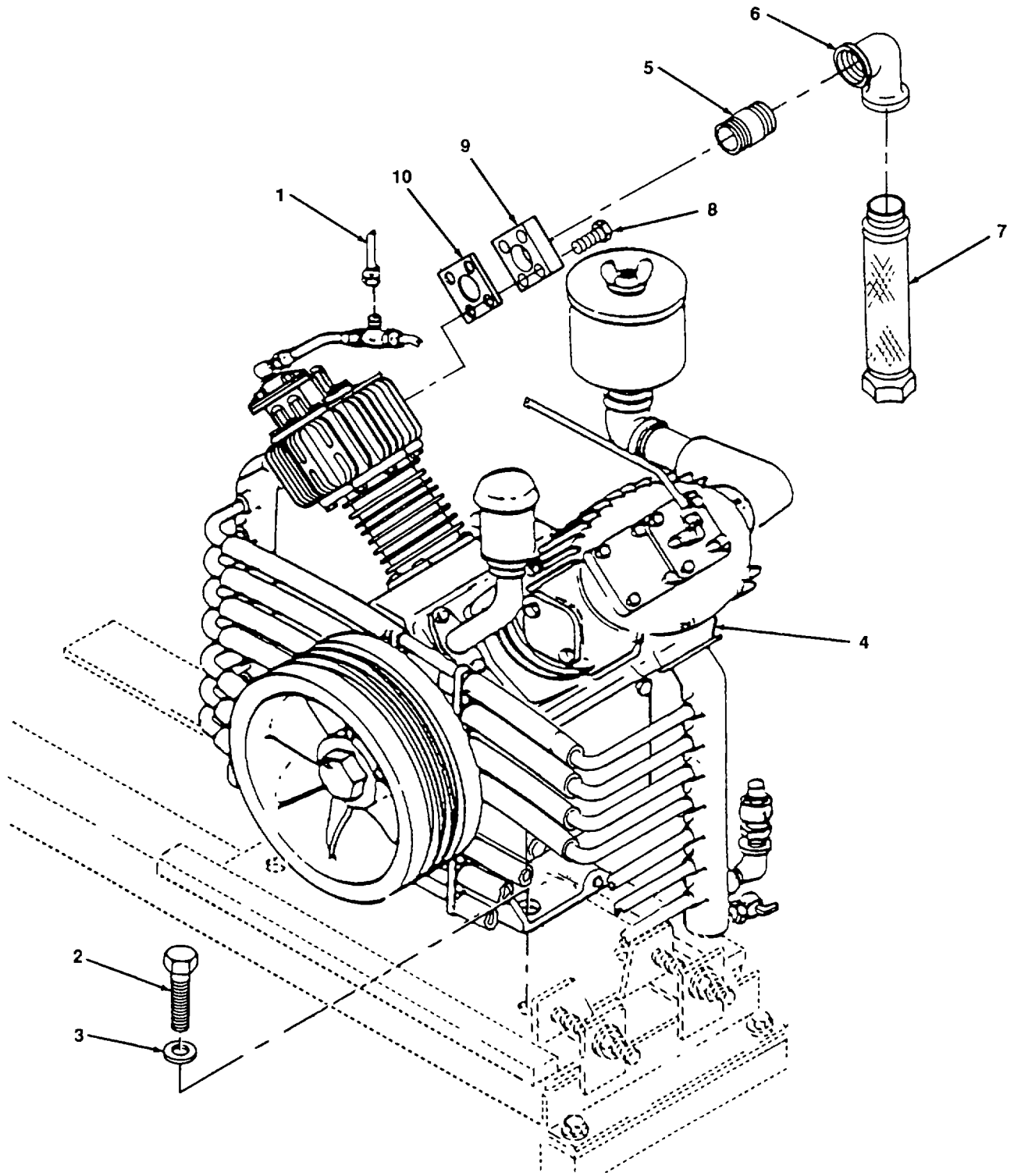


Figure 79. Air Compressor Assembly.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR	
			FIG. 79 AIR COMPRESSOR ASSEMBLY	
1	96906		FITTING, UNLOADER AIR LINE	2
2	96906	MS90725-129	BOLT, 625-11 UNC -2A X 2 00 LG	2
3	96906	MS35338-50	WASHER, LOCK	2
4	2K654	AVLALBBF9999	AIR COMPRESSOR ASSEMBLY	1
5	96906	MS51873-125B	NIPPLE	1
6	72423	1201-200	ELBOW, 900	1
7	2K654	A0545274K49	PIPE, FLEX, 2 IN	1
8	2K654	75A39	SCREW, CAP	4
9	2K654	60AUX192	FLANGE	1
10	2K654	25C1682	GASKET	1
			END OF FIGURE	

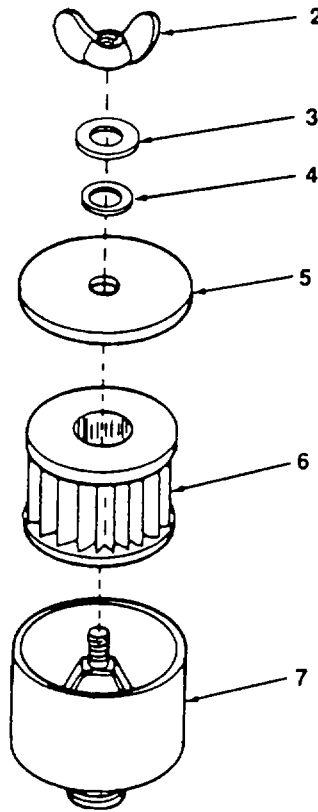
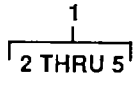


Figure 80. Air Cleaner Intake.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 80 AIR CLEANER, INTAKE	
1	18170	A1-104-43-030	FILTER, AIR, ASSEMBLY	1
2	96906		NUT, WING, 3/8 IN (NSN 5310-00-543-4717)	1
3	96906	MS27183-12	WASHER, FLAT, 3/8 IN	1
4	96906		GASKET, CORK	1
5	18170		COVER, AIR FILTER	1
6	18170	29-78K99	ELEMENT, AIR FILTER	1
7	18170		BODY, AIR FILTER ASSEMBLY	1
			END OF FIGURE	

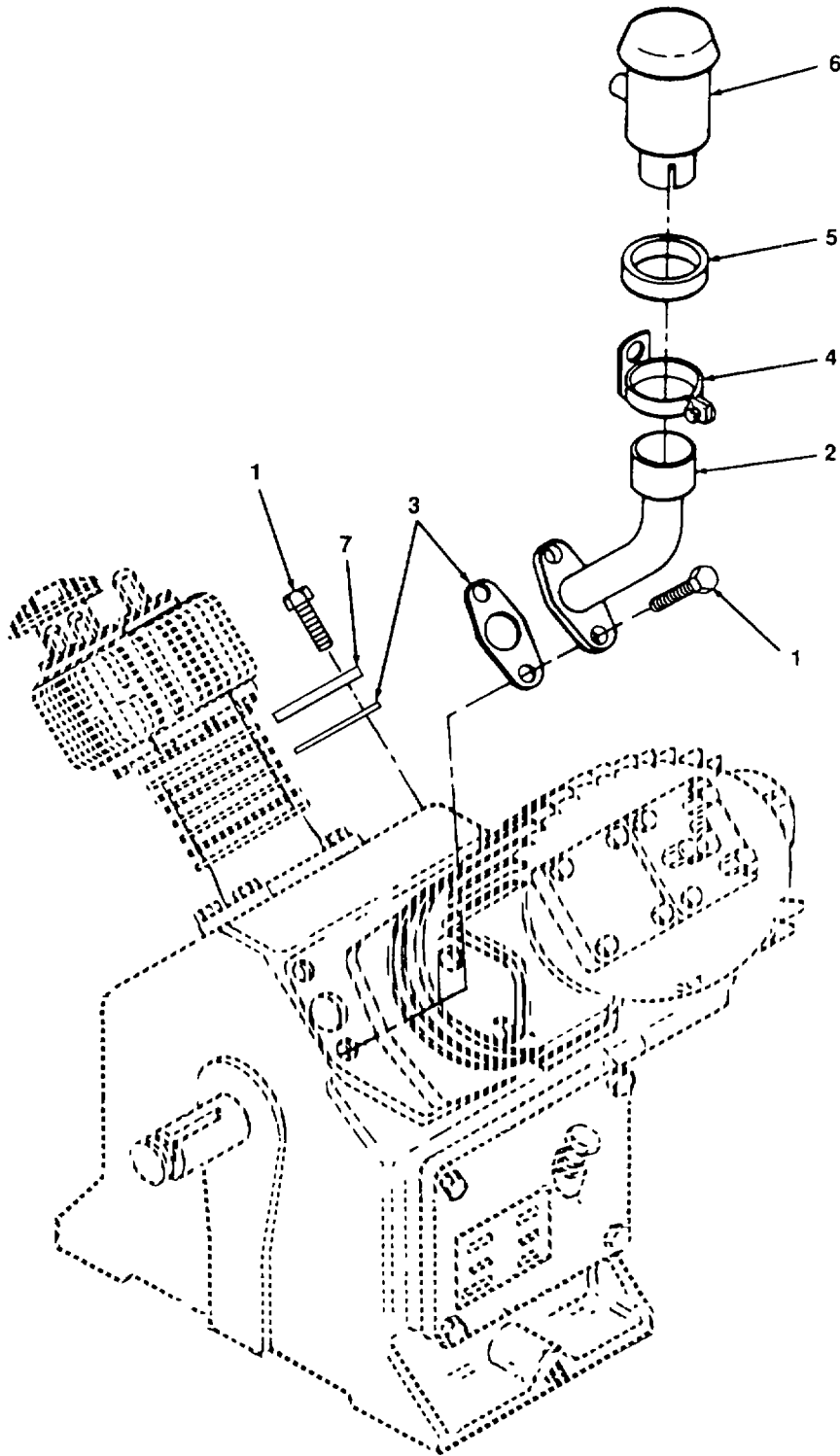


Figure 81. Air Breather.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 81 AIR BREATHER	
1	96906	75AA1	SCREW, CAP	4
2	2K654	ADS32	BODY, OIL FILTER	1
3	2K654	25C626	GASKET, TUBE ASSEMBLY	2
4	96906	200ADL564	CLAMP	1
5	2K654		GASKET, MAKE FROM, FELT	1
6	2K654	5C9	BREATHER, AIR	1
7	2K654	22AUX27	FLANGE	1
			END OF FIGURE	

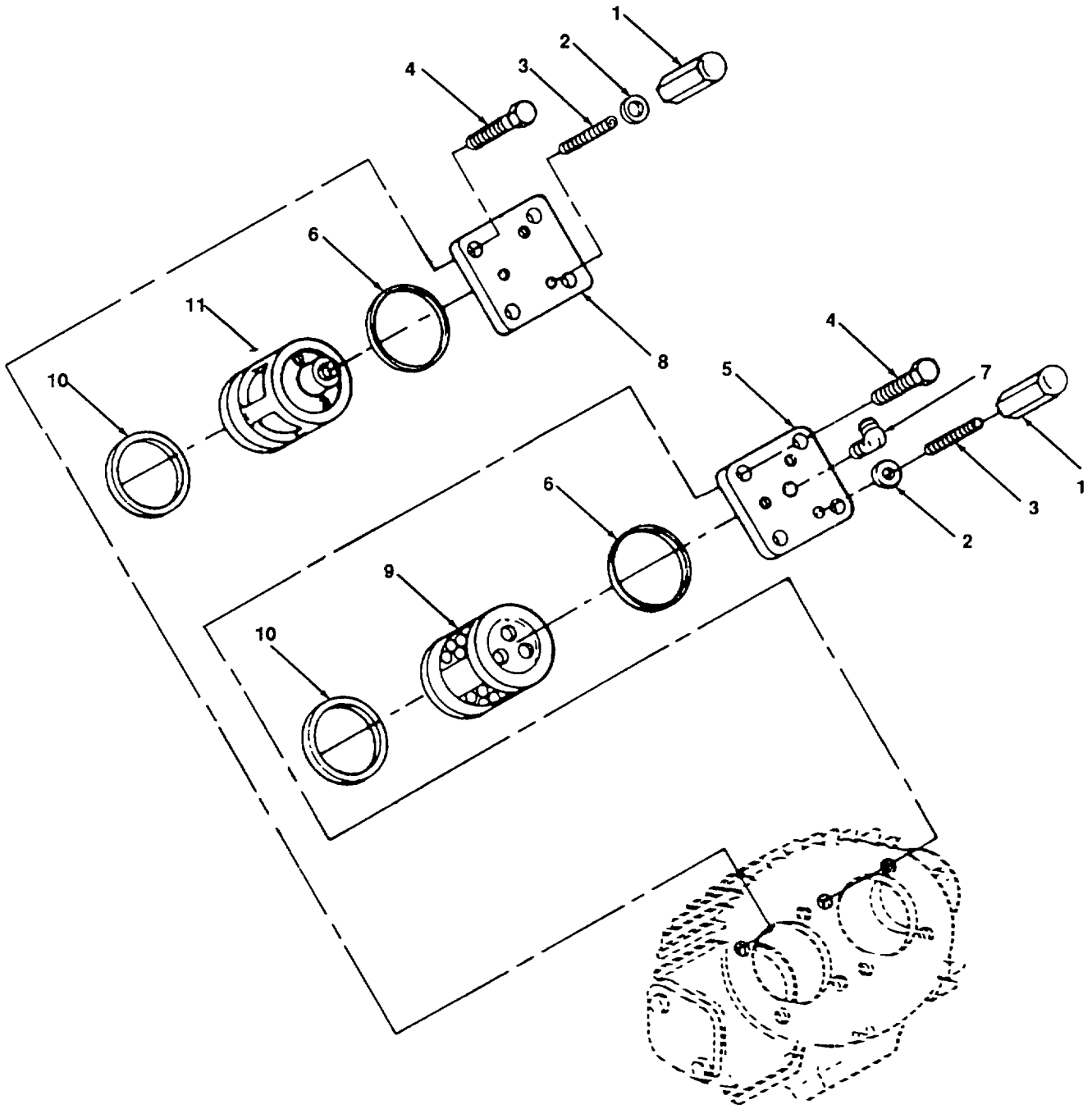


Figure 82. Valve, Low Pressure Discharge and Unloader.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16: AIR COMPRESSOR ASSEMBLY	
			FIG. 82 VALVES, LOW PRESSURE DISCHARGE AND UNLOADER	
1	2K654	50Q18	NUT, ACORN	6
2	2K654	25F15	GASKET	6
3	2K654	76GG9	SCREW, SET	6
4	2K654	75A17	SCREW, CAP, VALVE COVER	8
5	2K654	6VB42185	COVER, POWER PRESSURE SUCTION UNLOADER VALVE	1
6	2K654	25R27	GASKET, RING	2
7			ELBOW, UNLOADER PRESSURE VALVE COVER	1
8	2K654	2VB42185	COVER, VALVE, POWER PRESSURE DISCHARGE	1
9	2K654	VB42202B	VALVE, LOW PRESSURE DISCHARGE	1
10	2K654	25L6	GASKET, RING SEAT	2
11	2K654	VB42164C	VALVE, LOW PRESSURE SUCTION UNLOADER	1
			END OF FIGURE	

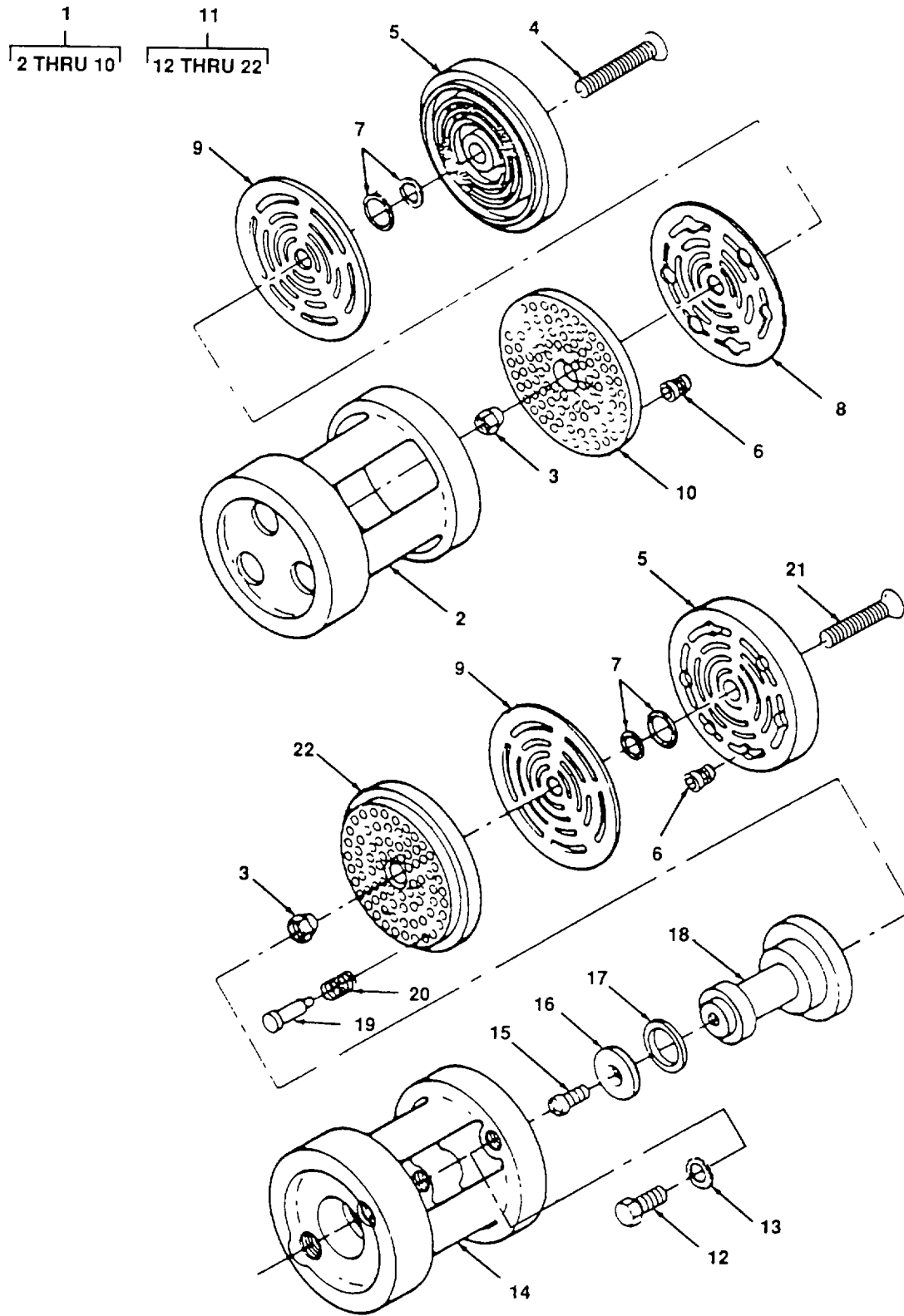


Figure 83. Valve, Discharge and Unloader, Low Pressure.



## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 83 VALVE ASSEMBLY, DISCHARGE AND UNLOADER, LOW PRESSURE	
1	2K654	VB42202B	VALVE, DISCHARGE LOW PRESSURE ASSEMBLY	1
2	2K654	1VB42452	CLAMP, VALVE	1
3	2K654	VB118	NUT, ACORN	2
4	2K654	75K81	SCREW, FLAT-HEAD	1
5	2K654	VB42202	BUMPER	1
6	2K654	2VA105A	SPRING, VALVE	3
7	2K654	VB260	GUIDE, LIFT	2
8	2K654	1VB4267	DISC, VALVE	1
9	2K654	3VB42214	PLATE, DAMPENING	2
10	2K654	VB42164A	SEAT, VALVE	1
11	2K654	VB42164Z	VALVE, SUCTION UNLOADER, LOW PRESSURE ASSEMBLY	1
12	2K654	7A517	SCREW, CAP, HEX	2
13	96906		WASHER, STAR, INTERNAL (NSN 5310-00-167-0721)	2
14	2K654	8VB42194	CLAMP, VALVE	1
15	2K654	75LM7	SCREW, BUT, SO HD	1
16	2K654	VB706	RETAINER	1
17	2K654	60DD5	SEAL, ASM KAP	1
18	2K654	2VB42217	PLUNGER, UNLOADER	1
19	2K654	VB218	PINS, FINGER	4
20	2K654	78A394	SPRINGS	4
21	2K654	75K80	SCREW, FLAT-HEAD	1
22	2K654	VB42202	SEAT, VALVE SUCTION	1
			END OF FIGURE	

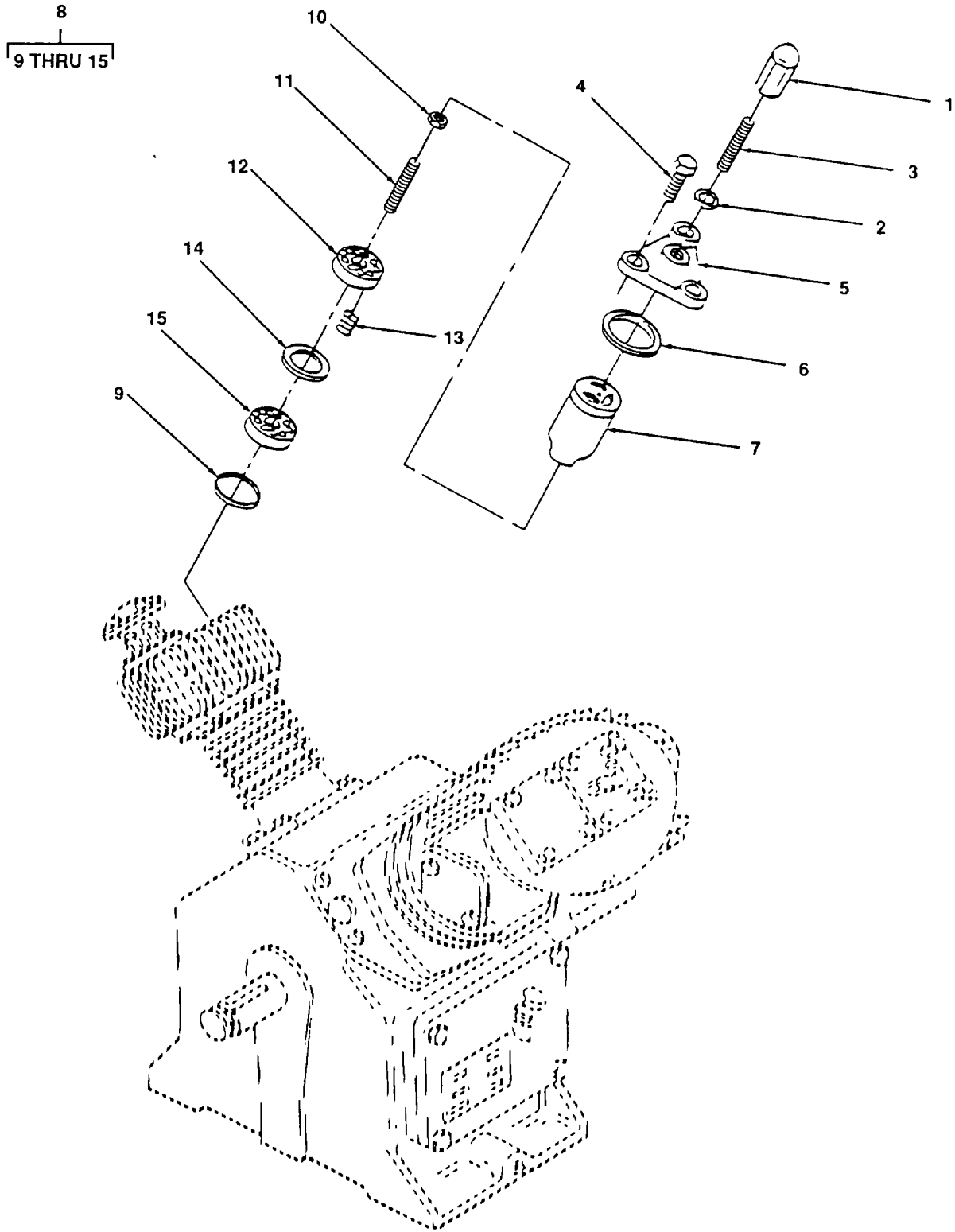


Figure 84. Valve, High Pressure Discharge.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 84 VALVE, HIGH PRESSURE DISCHARGE	
1	2K654	50Q17	NUT, ACORN	1
2	2K654	25F13	GASKET	1
3	2K654	76GG1	SCREW, SET	1
4	2K654	75A17	SCREW, CAP, HEX	3
5	2K654	ABL11	COVER, VALVE	1
6	2K654	25R1	GASKET, SEAT	1
7	2K654	5ABL194	CLAMP, VALVE	1
8	2K654	8YA127D	VALVE, HIGH PRESSURE DISCHARGE	1
9	2K654	25L3	GASKET, RING	1
10	2K654	VB118	NUT	1
11	2K654	VA207	SCREW, SET	1
12	2K654	ABL128	VALVE, BUMPER	1
13	2K654	78F4	SPRING, VALVE	3
14	2K654	90V3	DISC, VALVE	1
15	2K654	8YA127A	SEAT, VALVE	1
			END OF FIGURE	

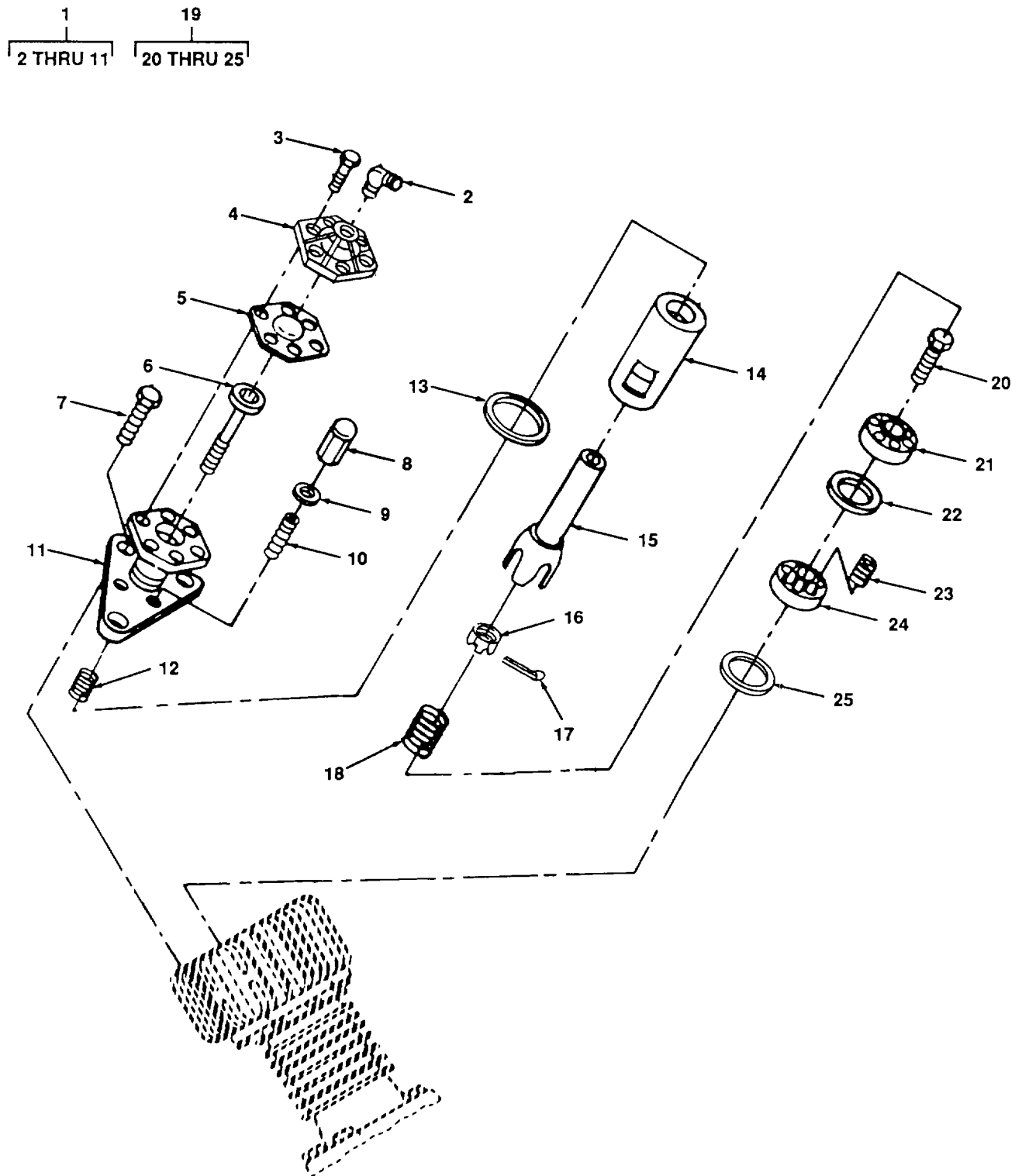
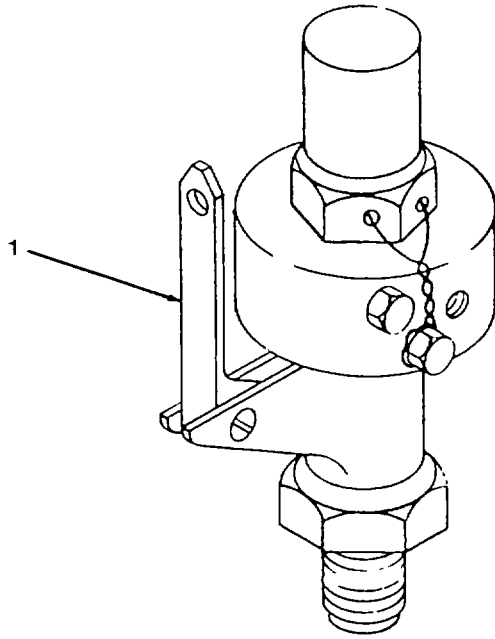


Figure 85. Valve, High Pressure Suction Unloader.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 85 VALVE, HIGH PRESSURE SUCTION UNLOADER	
1	2K654	2ABL185	COVER, VALVE ASSEMBLY	1
2	72423	1201-060	ELBOW, 900	1
3	2K654	75A34	SCREW, CAP	6
4	2K654	1WAU274	CAP, DIAPHRAGM	1
5	2K654	2AAB215	DIAPHRAGM	1
6	2K654	3ABL467	PLUNGER, UPPER UNLOADER	1
7	2K654	75A17	SCREW, CAP	3
8	2K654	50Q13	NUT, ACORN	3
9	2K654	25F15	GASKET	3
10	2K654	76G55	SCREW, SET	3
11	2K654	2ABL185	COVER, VALVE	1
12	2K654	78A126	SPRING, UPPER PLUNGER UNLOADER	1
13	2K654	25P4	GASKET, SEAT	1
14	2K654	6ABL194	CLAMP, VALVE	1
15	2K654	1ABL217	PLUNGER, UNLOADER LOWER	1
16	2K654	50E4	NUT, HEX CASTLE	1
17	2K654	62E3	PIN, COTTER	1
18	2K654	78A124	SPRING, LOWER PLUNGER	1
19	2K654	ABL164R	VALVE, HIGH PRESSURE SUCTION UNLOADER	1
20	2K654	75D4	SCREW, CAP, HEX-HEAD	1
21	2K654	ABL202	SEAT, VALVE	1
22	2K654	90V3	DISC, VALVE	1
23	2K654	78F4	SPRING, VALVE	3
24	2K654	ABL164X	VALVE, BUMPER	1
25	2K654	25L3	GASKET, RING VALVE SEAT	1
			END OF FIGURE	



4834-086

Figure 86. Valve, Safety.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1	2K654	90G39	GROUP 16 AIR COMPRESSOR ASSEMBLY FIG. 86 VALVE, SAFETY VALVE, SAFETY ASSEMBLY END OF FIGURE	1

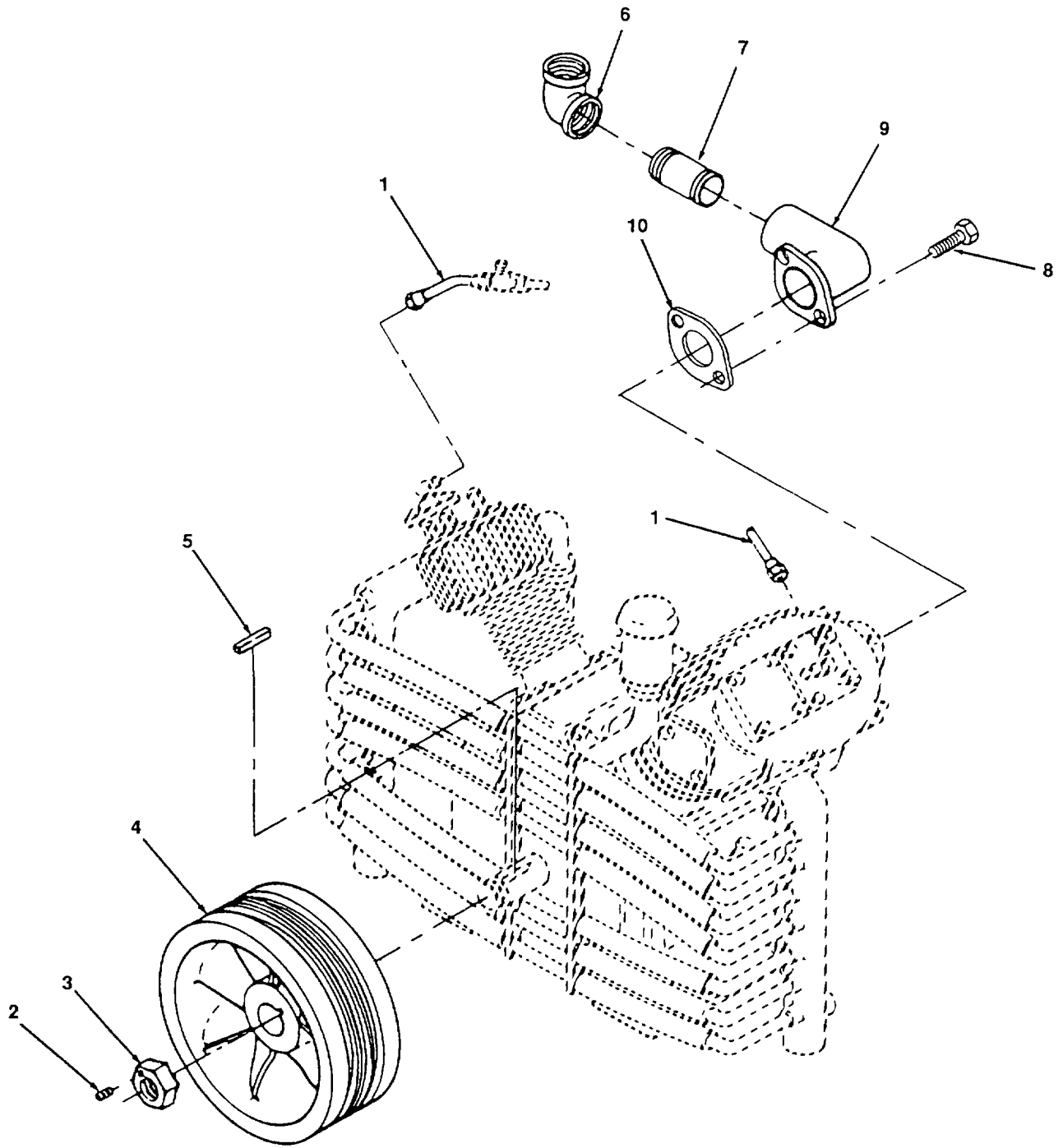


Figure 87. Pulley and Suction Manifold.



## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 87 PULLEY AND MANIFOLD, SUCTION	
1	2K654		FITTINGS, AIR LINE	1
2	2K654	76F45	SCREW, SET, HOSE	4
3	2K654	VAB381	NUT, CRANKSHAFT	1
4	2K654		PULLEY	1
5	2K654	35B381	KEY, SQUARE	1
6	96906		ELBOW, 900-3 IN	1
7	96906		NIPPLE, 3 X 7 1/2 IN	
8	2K654	75A74	SCREW, CAP HEX	2
9	2K654	ACL69	MANIFOLD, SUCTION	1
10	2K654	25C2015	GASKET, ELLIPTICAL	2
			END OF FIGURE	

1  
2 THRU 15

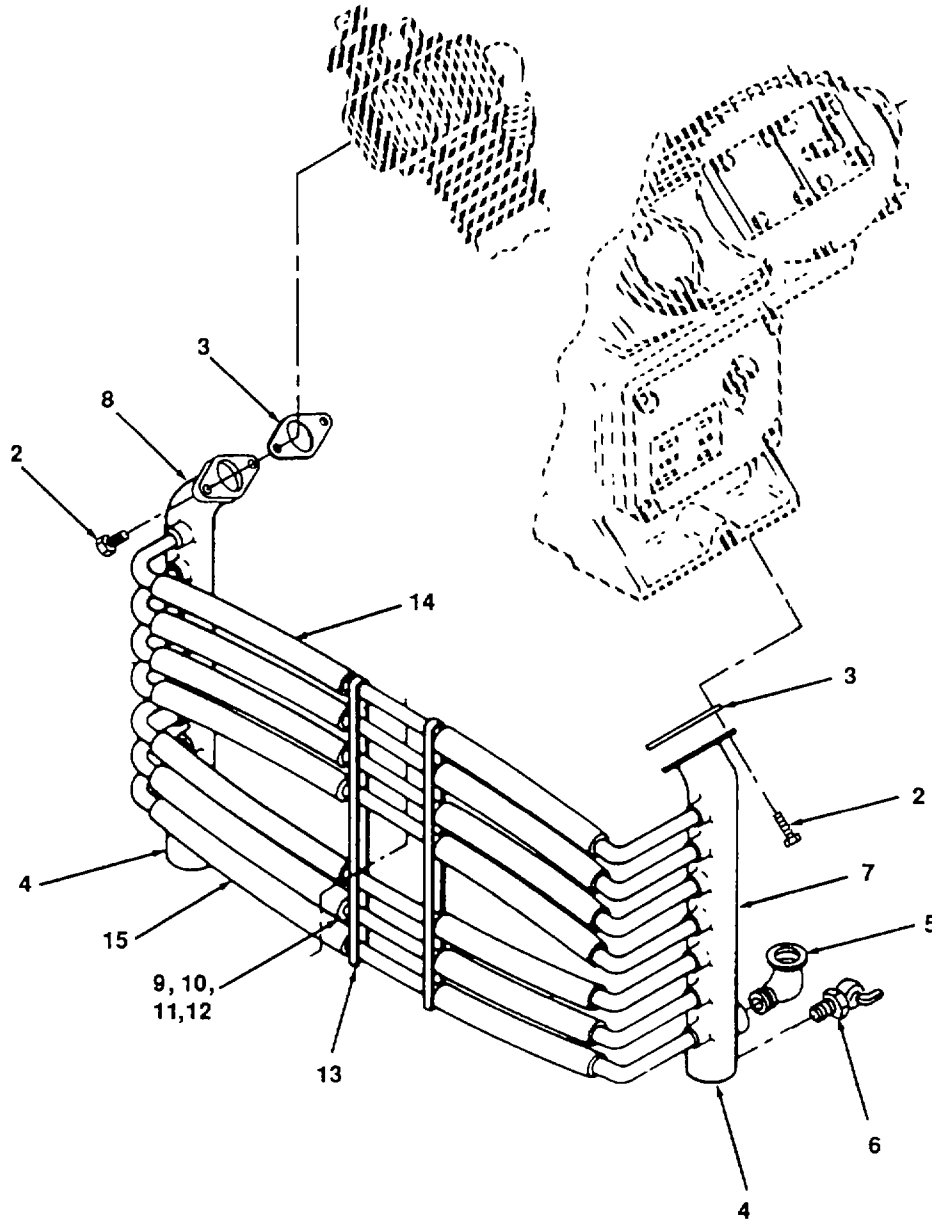


Figure 88. Intercooler.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 88 INTERCOOLER	
1	2K654	2ADL243A	INTERCOOLER ASSEMBLY	1
2	2K654	75A18	SCREW, CAP HEX-HEAD	4
3	2K654	25C692	GASKET, ELLIPTICAL	2
4	2K654	64B4	PLUG, CSK PIPE	2
5	2K654	64D10	ELBOW, PIPE STREET	1
6	2K654	90W1	COCK, DRAIN	2
7	2K654	3ADL476	HEADER, INTERCOOLER, LOW PRESSURE	1
8	2K654	2ADL476	HEADER, INTERCOOLER, HIGH PRESSURE	1
9	2K654	75A51	SCREW, CAP HEX-HEAD	10
10	2K654	80A89	SPACER, INTERCOOLER TUBE BRACE	10
11	2K654	50B1	HUT, HEX, TUBE BRACE	10
12	2K654	95H1	WASHER, LOCK, TUBE BRACE	10
13	2K654	ADL613	BRACE, INTERCOOLER TUBE	2
14	2K654	3ADL243	TUBE, INTERCOOLER UPPER	4
15	2K654	2ADL243	TUBE, INTERCOOLER LOWER	3
			END OF FIGURE	

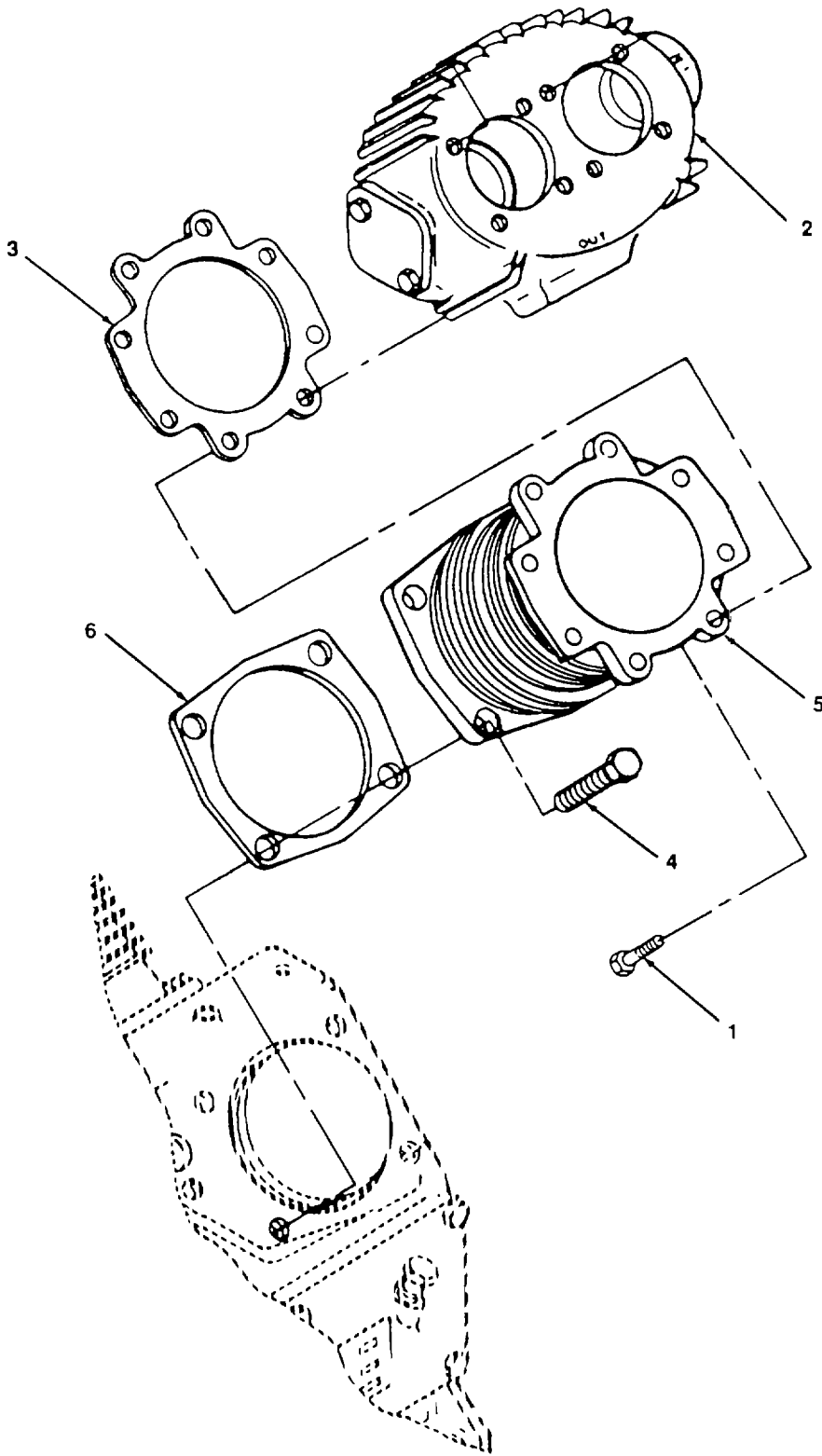


Figure 89. Cylinder Head, Low Pressure.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 89 CYLINDER HEAD, LOW PRESSURE	
1	2K654	75A12	SCREW, CAP, CYLINDER TO HEAD	8
2	2K654	ACL7	HEAD, LOW PRESSURE CYLINDER	1
3	2K654	25C1883	GASKET, CYLINDER TO HEAD	1
4	2K654	75A17	SCREW, HEX CAP	4
5	2K654	ACL2	CYLINDER, LOW PRESSURE	1
6	2K654	200AVL715	GASKET, CYLINDER TO CRANKCASE	1
			END OF FIGURE	

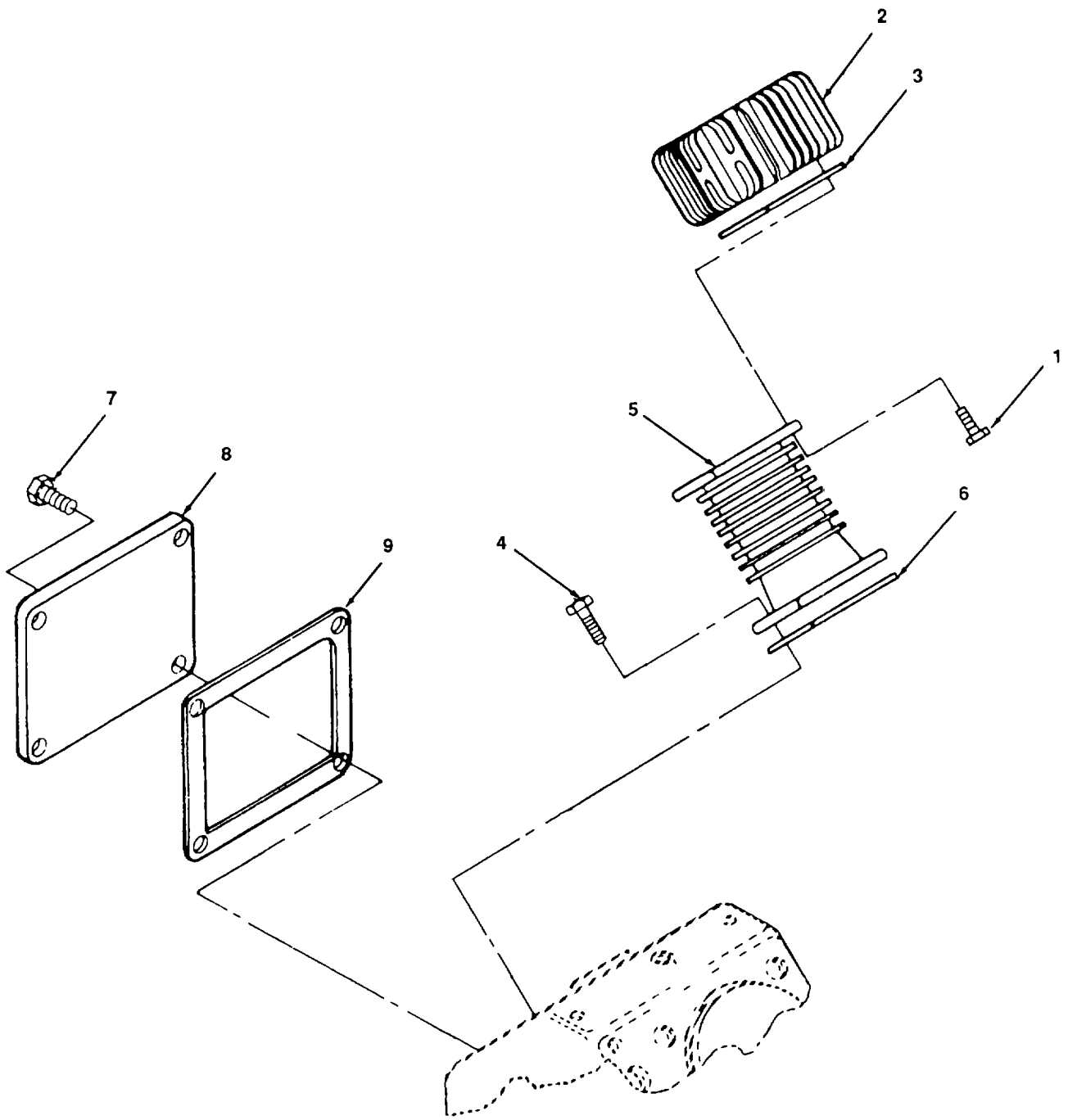
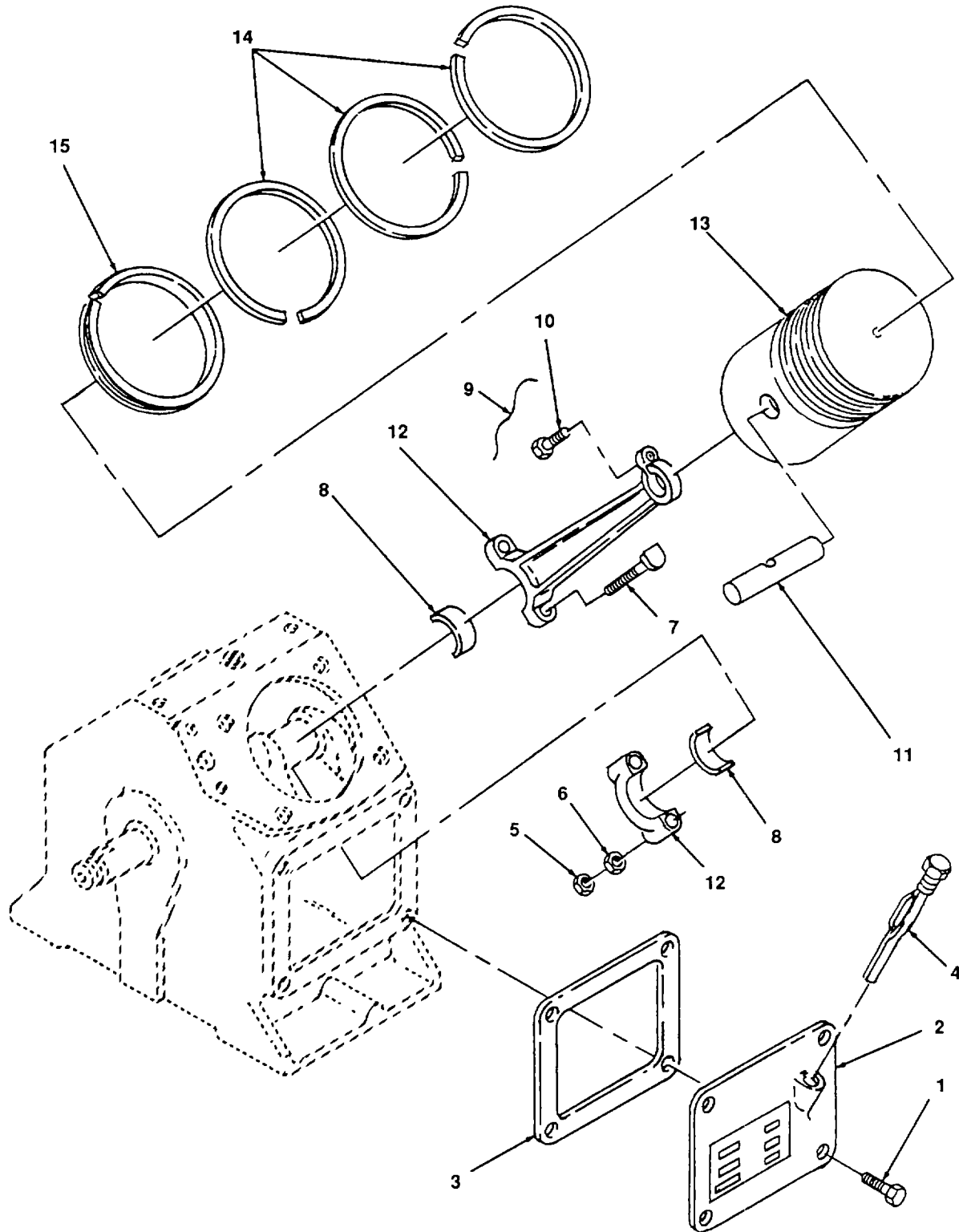


Figure 90. Cylinder Head, High Pressure.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 90 CYLINDER HEAD, HIGH PRESSURE	
1	2K654	75A12	SCREW, CAP	8
2	2K654	ADL7	CYLINDER HEAD, HIGH PRESSURE	1
3	2K654	25C1884	GASKET, CYLINDER TO HEAD	1
4	2K654	75A17	SCREW, CAP	4
5	2K654	ADL2	CYLINDER, HIGH PRESSURE	1
6	2K654	200AVL715	GASKET, CYLINDER TO CRANKCASE	1
7	2K654	75A130	SCREW, CAP	4
8	2K654	ADL9	PLATE, INSPECTION, PLAIN	1
	2K654	25C1882	GASKET	2
			END OF FIGURE	

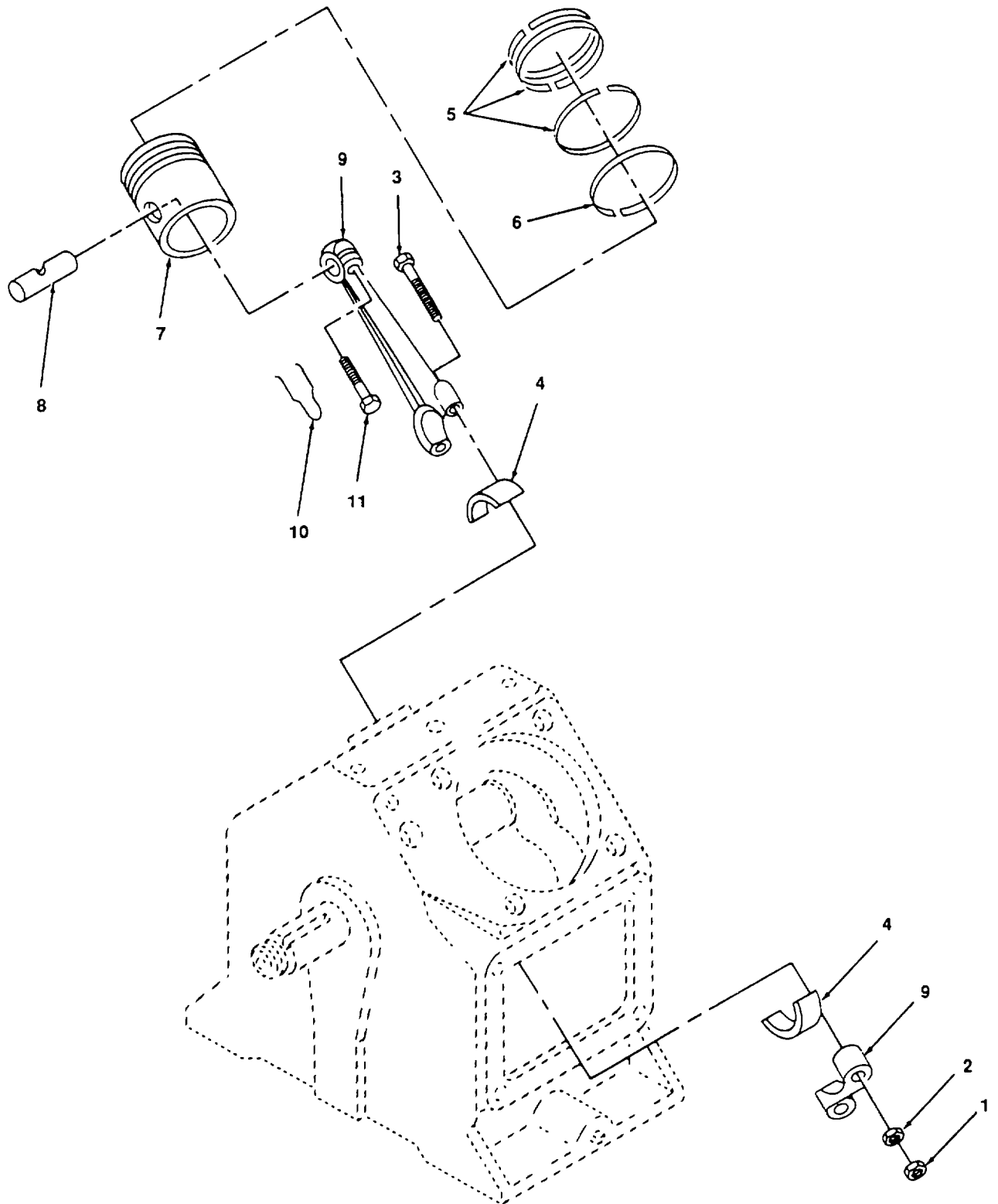


4834-091

Figure 91. Pistons, Connecting Rods and Bearings, Low Pressure



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 91 PISTON, CONNECTING RODS, AND BEARINGS, LOW PRESSURE	
1	2K654	75A130	CAP, SCREW	4
2	2K654	ADL8	PLATE, INSPECTION OIL	1
3	2K654	25C1882	GASKET	1
4	2K654	ACR557	GAGE, OIL LEVEL ROD	1
5	2K654	50M 11	NUT, LOCK	4
6	2K654	VAB381	NUT	2
7	2K654	2012481	ROD BOLTS, CONNECTING WITH NUT	2
8	2K654	200ADL174	BEARING, HALVES	2
9	2K654	97A29	WIRE, LOCK, 12 IN	1
10	2K654	75E11	SCREW, CAP	1
11	2K654	62F63	PIN, PISTON	1
12	2K654	200AVL003B	ROD, CONNECTING AND BEARING, CAP	1
13	2K654	ACL15	PISTON, AIR, LOW PRESSURE	1
14	2K654	65V16	RINGS, COMPRESSION, LOW PRESSURE	3
15	2K654	65S30	RING, OIL, LOW PRESSURE	1
			END OF FIGURE	



4834-092

Figure 92. Piston, Connecting Rod and Bearing, High Pressure

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 92 PISTON, CONNECTING ROD AND, BEARING, HIGH PRESSURE	
1	2K654	50M11	NUT, LOCK	2
2	2K654	VAB381	NUT	2
3	2K654	2012481	ROD BOLTS, CONNECTING WITH NUT	2
4	2K654	200ADL174	BEARING, HALVES	2
5	2K654	65V17	RINGS, COMPRESSION, HIGH PRESSURE	3
6	2K654	65S31	RING, OIL, HIGH PRESSURE	1
7	2K654	ADL15	PISTON, AIR, HIGH PRESSURE	1
8	2K654	62F64	PIN, PISTON, HIGH PRESSURE	1
9	2K654	200AVL003B	ROD, CONNECTING AND BEARING, CAP	1
10	2K654	97A29	LOCKWIRE, 12 IN	1
11	2K654	75E11	SCREW, CAP	2
			END OF FIGURE	

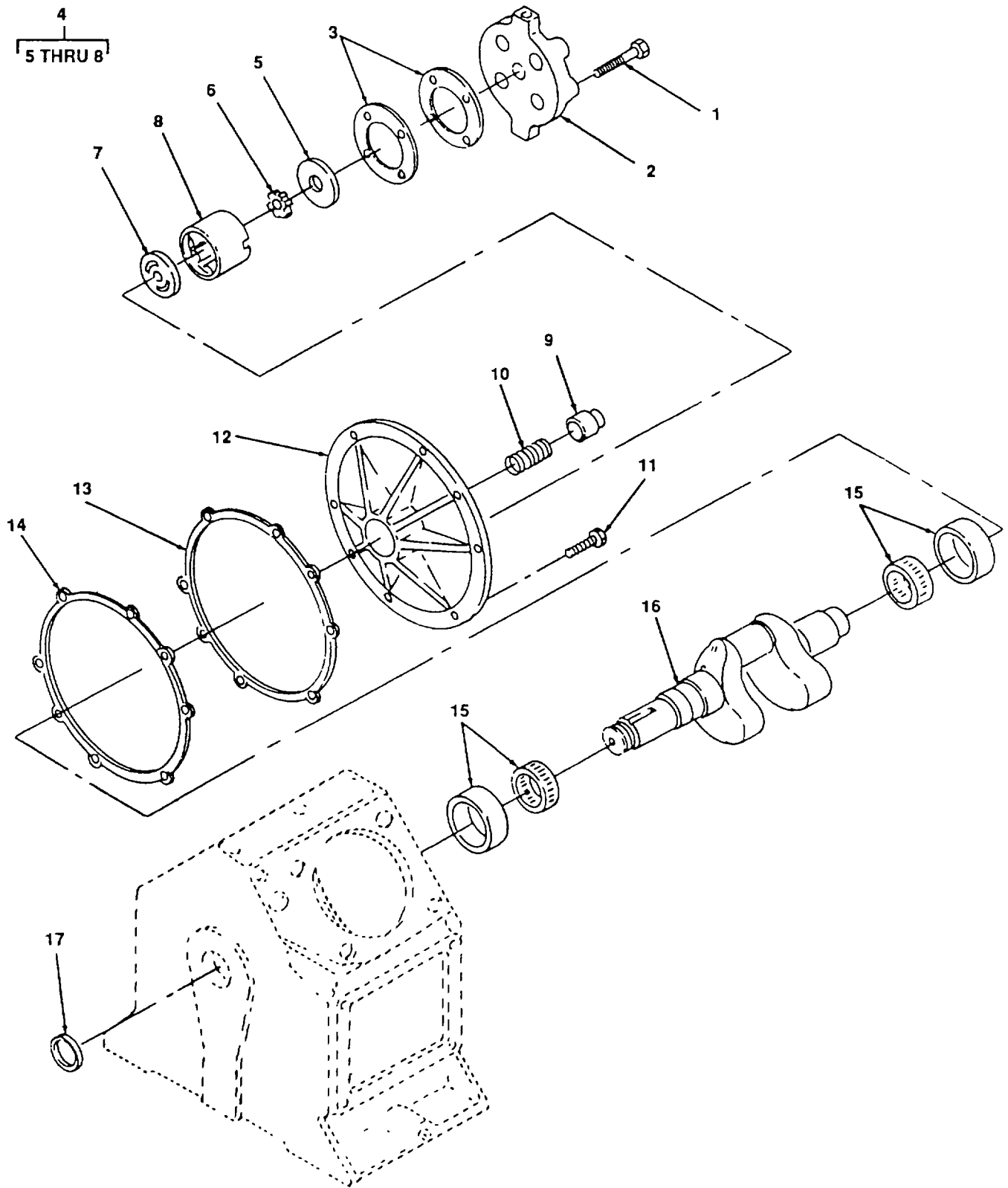
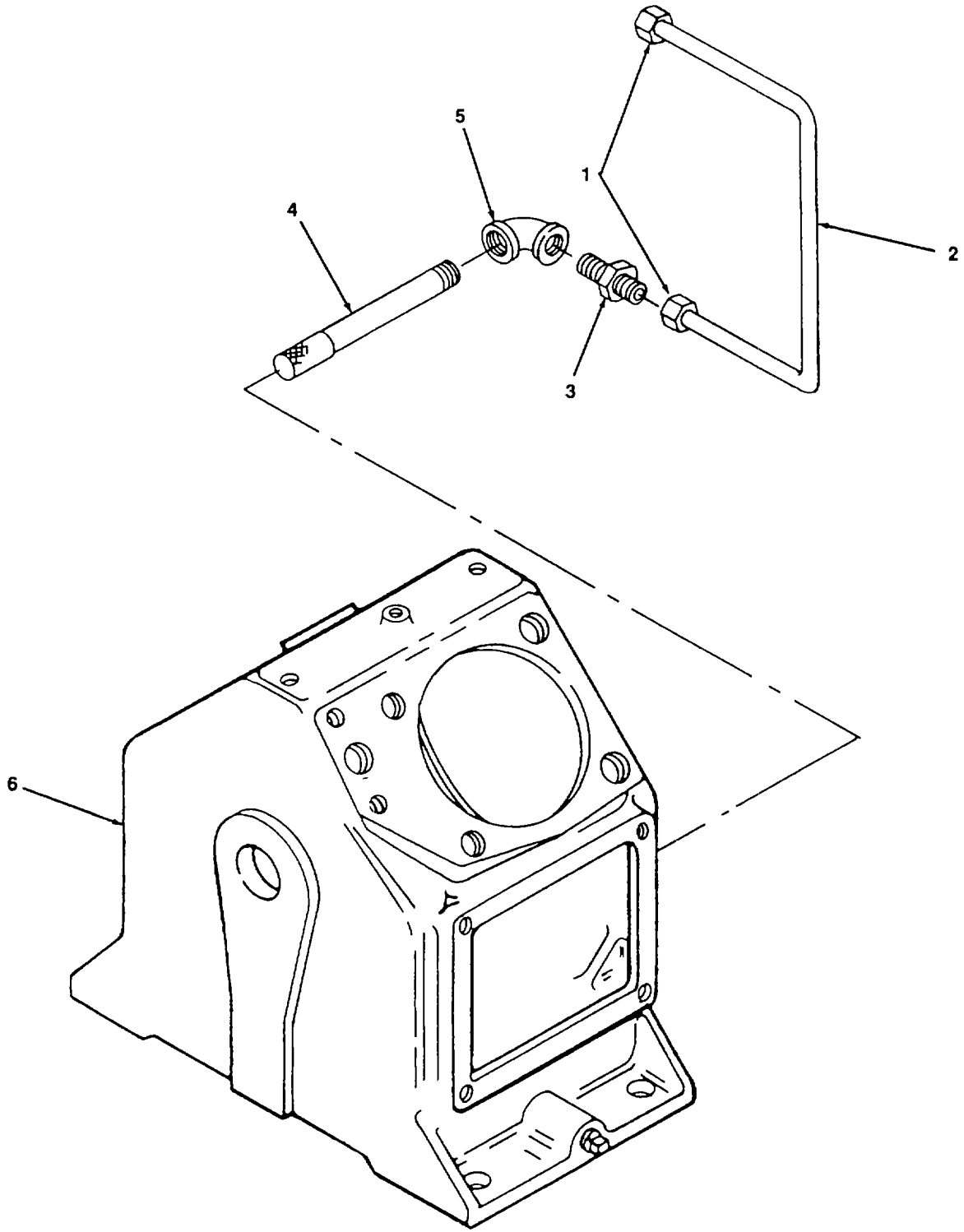


Figure 93. Crankshaft and Oil Pump.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 93 CRANKSHAFT AND OIL PUMP	
1	2K654	75A51	SCREW, CAP	4
2	2K654	2010243	COVER	1
3	2K654	77G34	SHIM SET	2
4	2K654	2012919	PUMP, OIL	1
5	2K654		SPACER	1
6	2K654		GEAR	1
7	2K654		CAM	1
8	2K654		HOUSING, PUMP OIL	1
9	2K654	2010244	PLUNGER	1
10	2K654	2010245	SPRING	1
11	2K654	75A12	SCREW, CAP	8
12	2K654	200AVL006	PLATE, END	1
13	2K654	77B34	SHIM SET	1
14	2K654	25C2068	GASKET RING	1
15	2K654	12C28	BEARING, ROLLER W/CASE	2
16	2K654	200AVL004	CRANKSHAFT	1
17	2K654	60G41	SEAL, OIL	1
			END OF FIGURE	



4834-094

Figure 94. Block, Crankcase Compressor

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 16 AIR COMPRESSOR ASSEMBLY	
			FIG. 94 BLOCK, CRANKCASE COMPRESSOR	
1	2K654		FITTING, OIL LINE	1
2	2K654	204AVS857	TUBE, OIL LINE	1
3	2K654		ADAPTER, OIL LINE	1
4	2K654	200ADD019	SCREEN, OIL	1
5	2K654	86M90	ELBOW, 900	1
6	2K654	201AVL013	HOUSING, CRANKCASE	1
			END OF FIGURE	

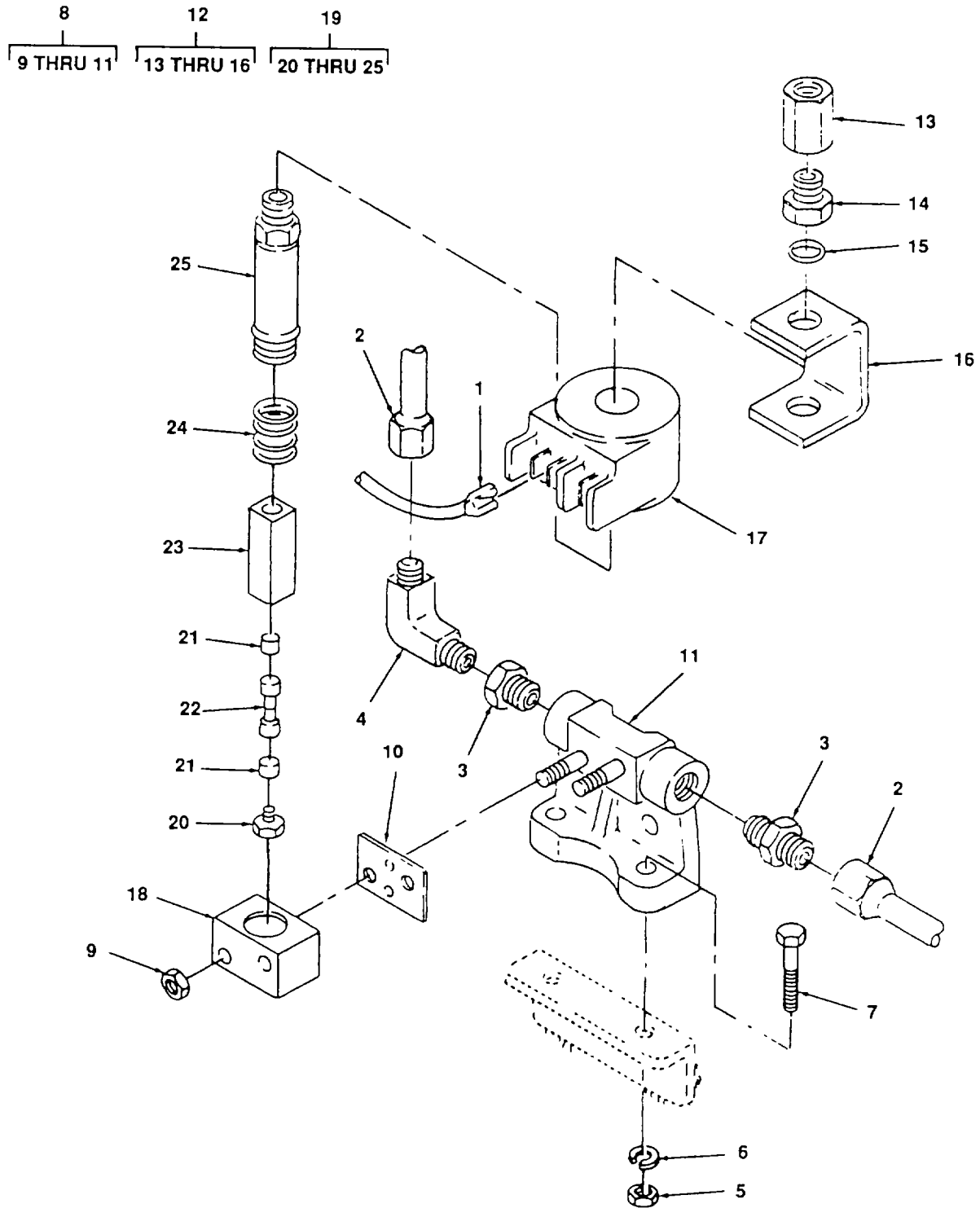


Figure 95. Governor Assembly, Air Compressor



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 17 GOVERNOR, AIR COMPRESSOR	
			FIG. 95 GOVERNOR ASSEMBLY	
1			LEAD, ELECTRICAL, MADE FROM, 14 AWG, P/N 8491796 (7295), TERMINAL, 14 AWG SPADE, P/N A2272 (46522), REF. DES, 2N103, -N72, CM	3
2	01276	4401-8S-20	FITTING, AIRLINE	2
3	30327	648F1-2X3-8	ADAPTER	1
4	72423	1203-060	ELBOW, 900	1
5	96906	MS51967-09	NUT	2
6	96906	MS35338-46	WASHER	2
7	96906	MS90725-65	SCREW, CAP, 3/8 X 1 3/4 IN.	2
8	24446	41A212869P3	GOVERNOR ASSEMBLY	1
9	24446	1X1669	NUT	2
10	24446	1 X6423	GASKET	1
11	24446	1X6422	BRACKET	1
12	24446	1X6417	ADAPTER ASSEMBLY	1
13	24446	1X667	ADAPTER, EXHAUST	1
14	24446	1 X6419	NUT	1
15	24446	1X2705	SEAL, O-RING	1
16	24446	1X5978	YOKE, FIELD	1
17	24446	2X6296	COIL	1
18	24446	1X6412	VALVE, BODY	1
19	24446	1X5779	PLUNGER, ASSEMBLY	1
20	24446	1X5781	CAP	1
21	24446	1 X8708	SEAT	2
22	24446	1 X9363	SPACER	1
23	24446	1X5780	PLUNGER, BODY	1
24	24446	1X5784	SPRING	1
25	24446	1X5787	COIL, POLE	1
			END OF FIGURE	

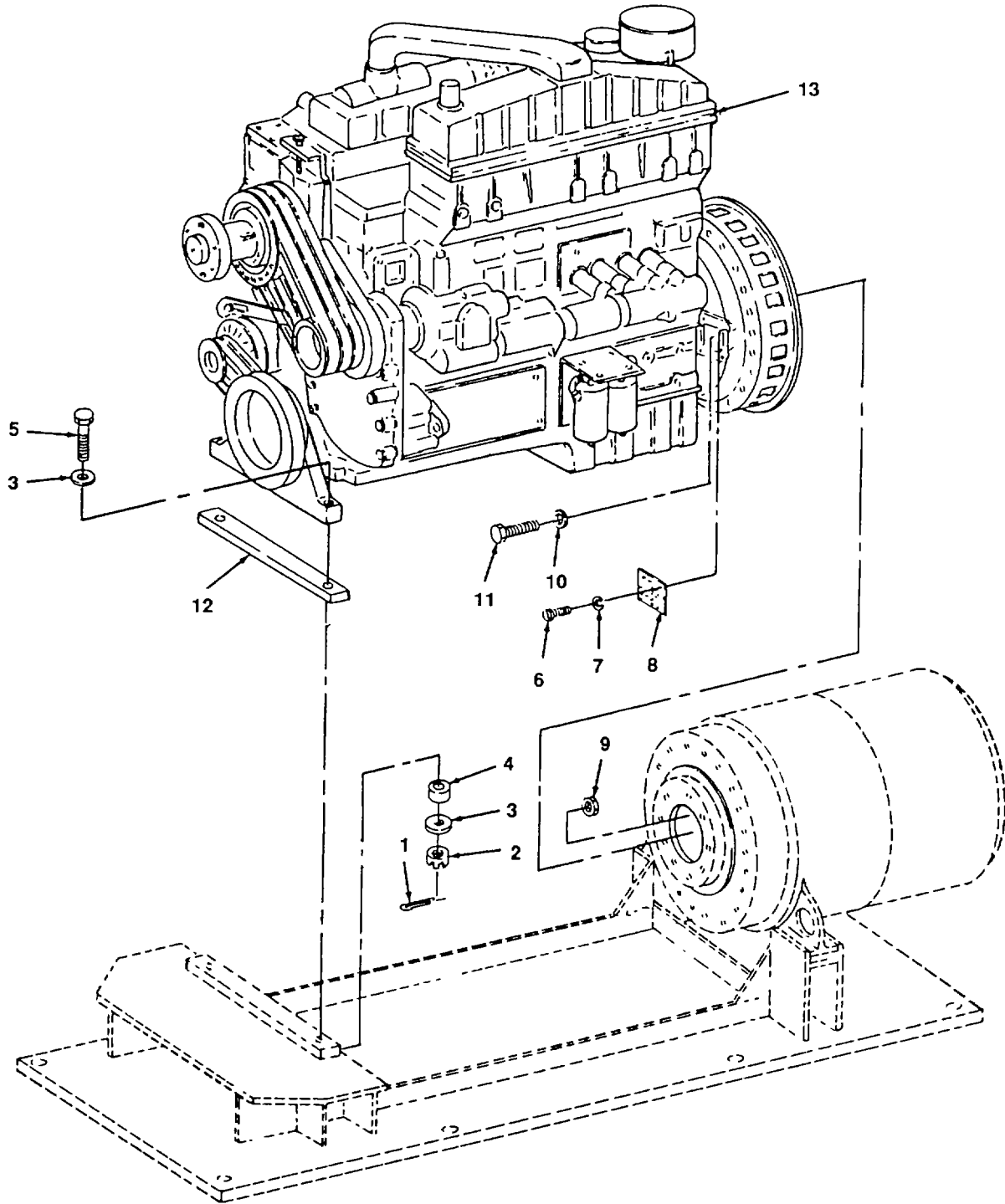
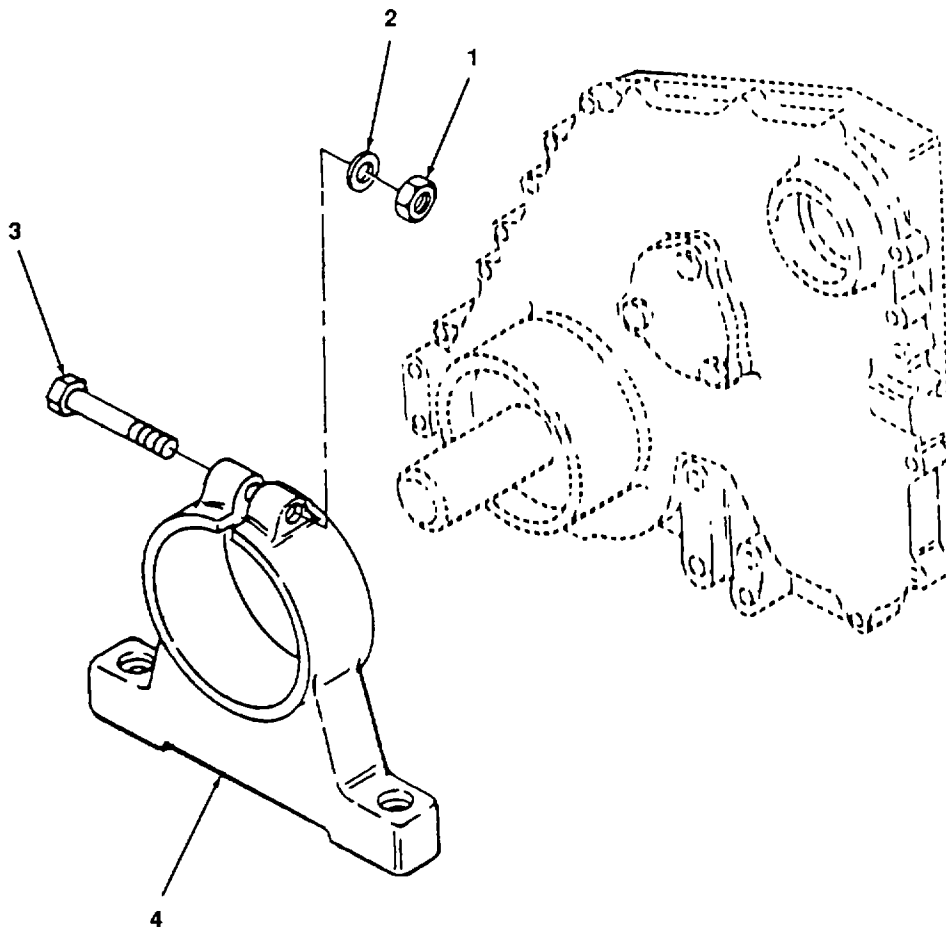


Figure 96. Diesel Engine.

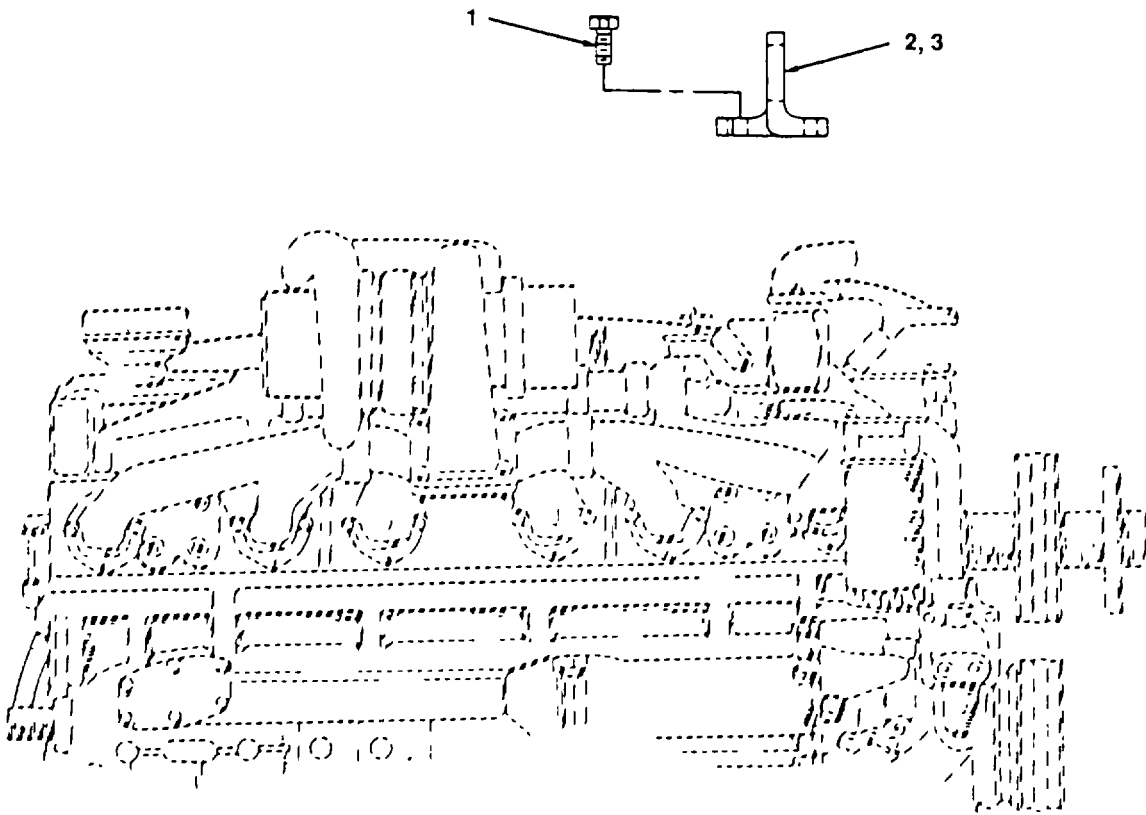
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 96 ENGINE ASSEMBLY	
1	24446	9704	PIN, COTTER 7/64 X 1 3/4 IN, (NSN 5310-00-059-0178)	2
2	24446	4768073P5	NUT, CASTLATED	2
3	96906		WASHER, FLAT, 5/8 (NSN 5310-00-823-8803)	2
4	24446	6729469P2	PAD, MOUNTING	2
5	24446	4736011 P55	SCREW, HEX-HEAD CAP, ENGINE MTG (NSN 5305-00-724-6762)	2
6	96906		SCREW, HEX	8
7	96906		WASHER, LOCK	8
8			SCREEN	2
9	96906		NUT, HEX	10
10	96906		WASHER, LOCK	10
11	24446	8805356P1	SCREW, HEX	10
12	24446	6729512P1	PAD, ENGINE MTG	1
13	15434	NTA-855-L4,	ENGINE, DIESEL S O 49575	1
			END OF FIGURE	



4834-097

Figure 97. Engine Support, Front

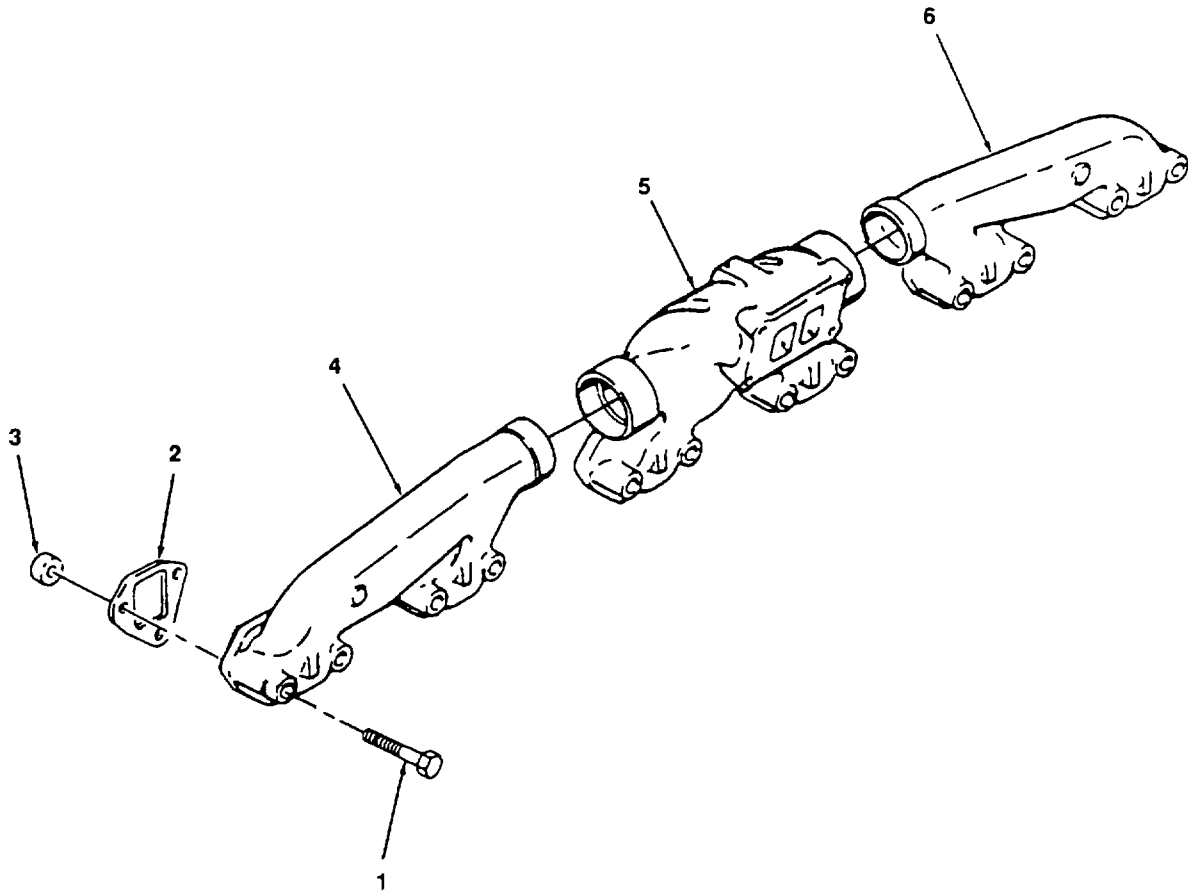
(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
1	15434	S-210	NUT	1
2	15434	S-603	WASHER, FLAT	1
3	15434	138046	SCREW, HEX-HEAD CAP	1
4	15434	163739	SUPPORT, ENGINE FRONT	1
			END OF FIGURE	



4834 098

Figure 98. Engine Lifting Eye

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2 3	15434 15434 15434	S-176 170226 3001726	GROUP 18 ENGINE GROUP, DIESEL  FIG. 98 ENGINE ASSEMBLY AND LIFTING EYE  CAPSCREW 1/2-13 X5 BRACKET, LIFTING, FRONT BRACKET, LIFTING, REAR  END OF FIGURE	4 1 1



4834-099

Figure 99. Manifold, Exhaust



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 99 MANIFOLD EXHAUST	
1	15434	3031124	SCREW, HEX-HEAD CAP 7/16-14 X 3 7/16 IN LONG	12
2	15434	3020943	GASKET, EXHAUST MANIFOLD	6
3	15434	105199	DOWL	12
4	15434	3042286	MANIFOLD, EXHAUST	1
5	15434	3029614	MANIFOLD, EXHAUST	1
6	15434	3031187	MANIFOLD, EXHAUST	1
			END OF FIGURE	

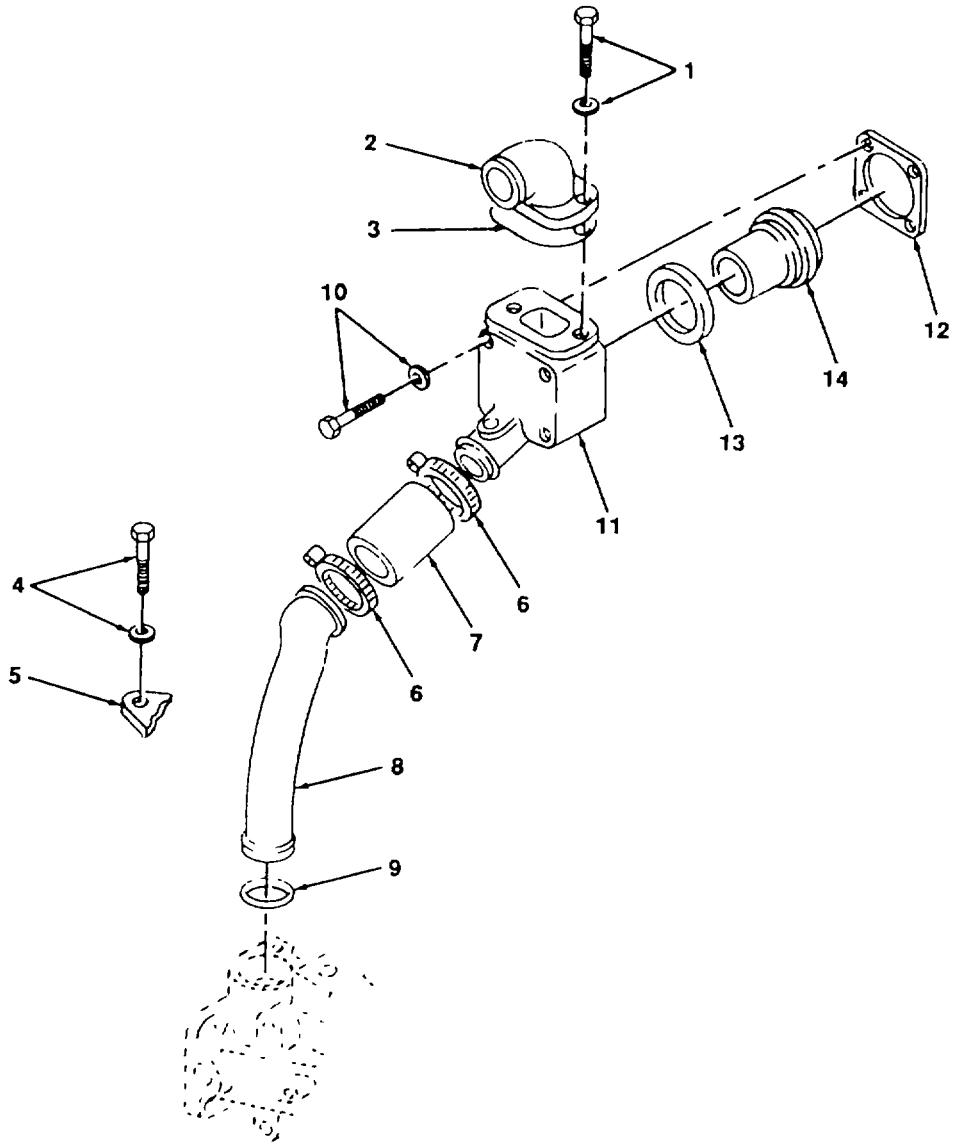
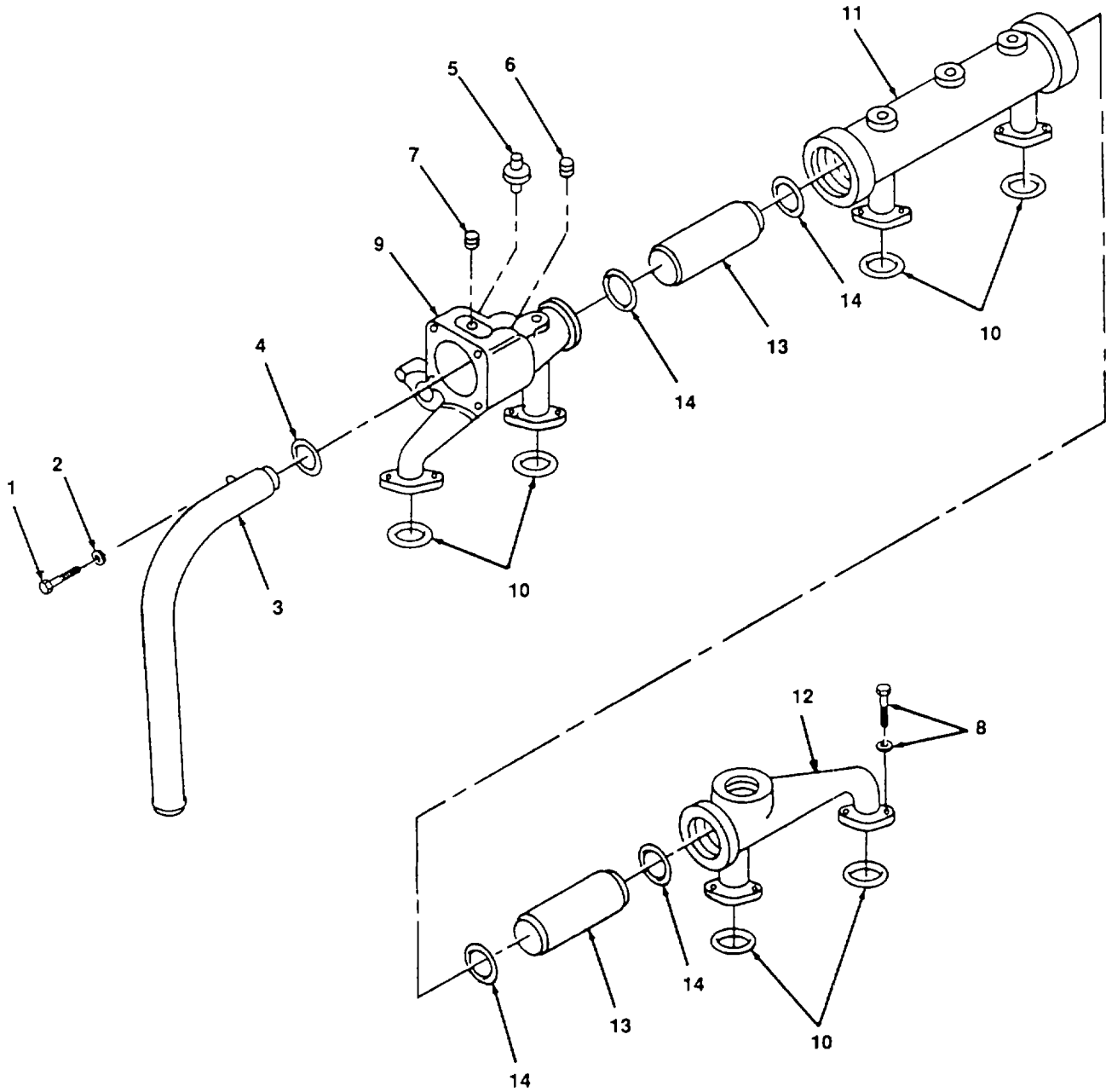


Figure 100. Thermostat, Housing and Bypass.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 100 HOUSING, THERMOSTAT AND BYPASS	
1	15434	3010595	CAPSCREW, CAPTIVE	2
2	15434	3018764	CONNECTION, WATER OUTLET	1
3	15434	3019158	GASKET, WATER OUTLET	1
4	15434	3022589	CAPSCREW	1
5	15434	158416	BRACKET, WATER	1
6	15434	43828B	CLAMP, HOSE	2
7	15434	3034202	HOSE, WATER	1
8	15434	213485	PIPE, WATER BYPASS	1
9	15434	43463-A	O-RING	1
10	15434	3010597	CAPSCREW, CAPTIVE	4
11	15434	3017748	HOUSING, THERMOSTAT	1
12	15434	208128	GASKET, HOUSING	1
13	15434	186780	SEAL, HOUSING	1
14	15434	201737	THERMOSTAT	1
			END OF FIGURE	



4834-101

Figure 101. Manifold, Water

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 101 WATER MANIFOLD	
1	15434	3022589	CAPSCREW, CAPTIVE	1
2	15434	S-626	WASHER, FLAT	1
3	15434	3024666	TUBE, WATER TRANSFER	1
4	15434	212161	O-RING	1
5	15434	S-962-E	COCK, DRAIN	1
6	15434	3008468	PLUG, PIPE	1
7	15434	3008469	PLUG, PIPE	1
8	15434	3010596	CAPSCREW	12
9	15434	3015114	MANIFOLD, WATER FRONT	1
10	15434	3024709	RING, SEALING	6
11	15434	130118	MANIFOLD, WATER. CENTER	1
12	15434	3013001	MANIFOLD, WATER REAR	1
13	15434	130394	COUPLING, MANIFOLD	2
14	15434	70624	O-RING, COUPLING	4
			END OF FIGURE	

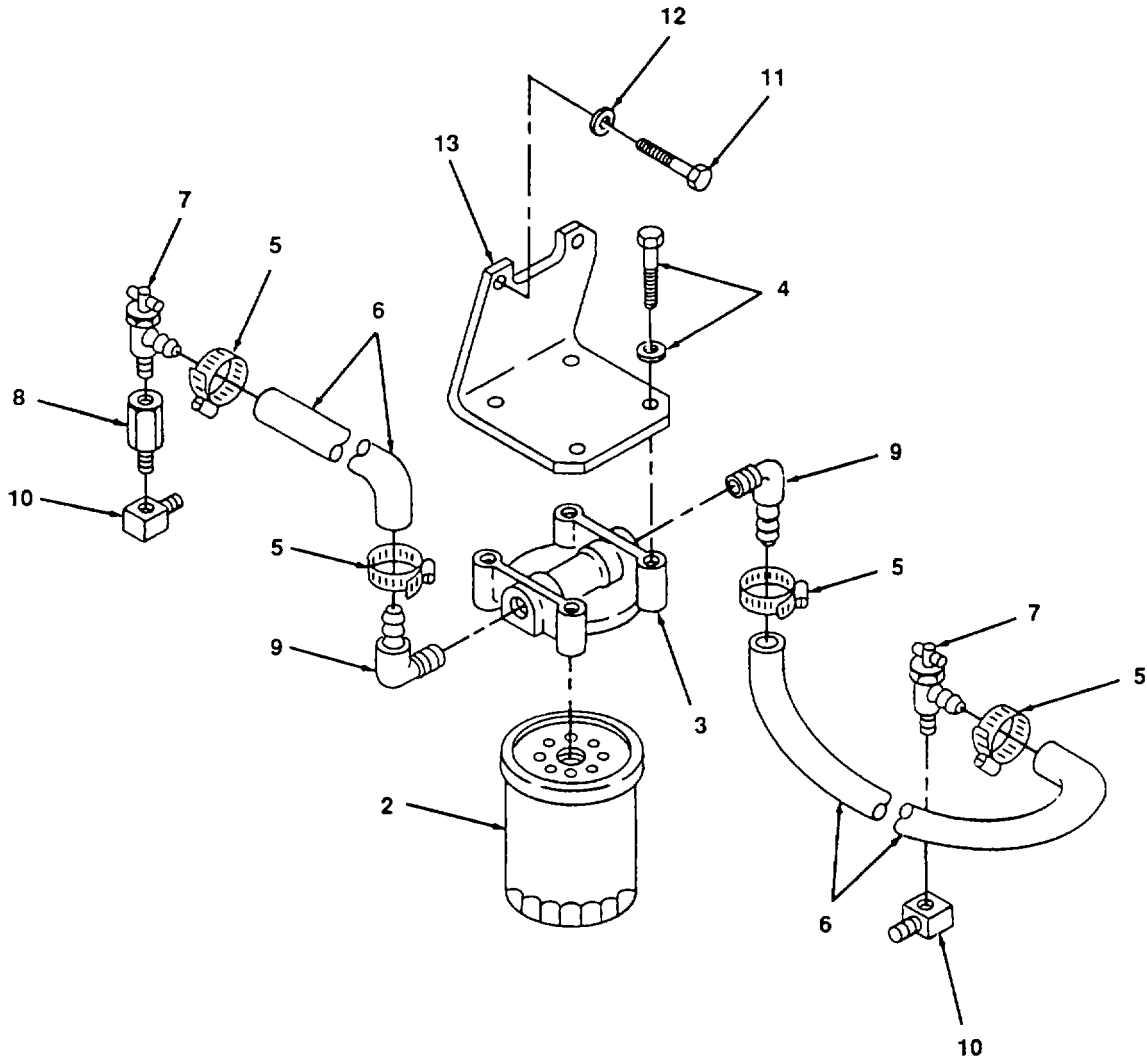
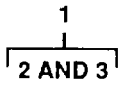
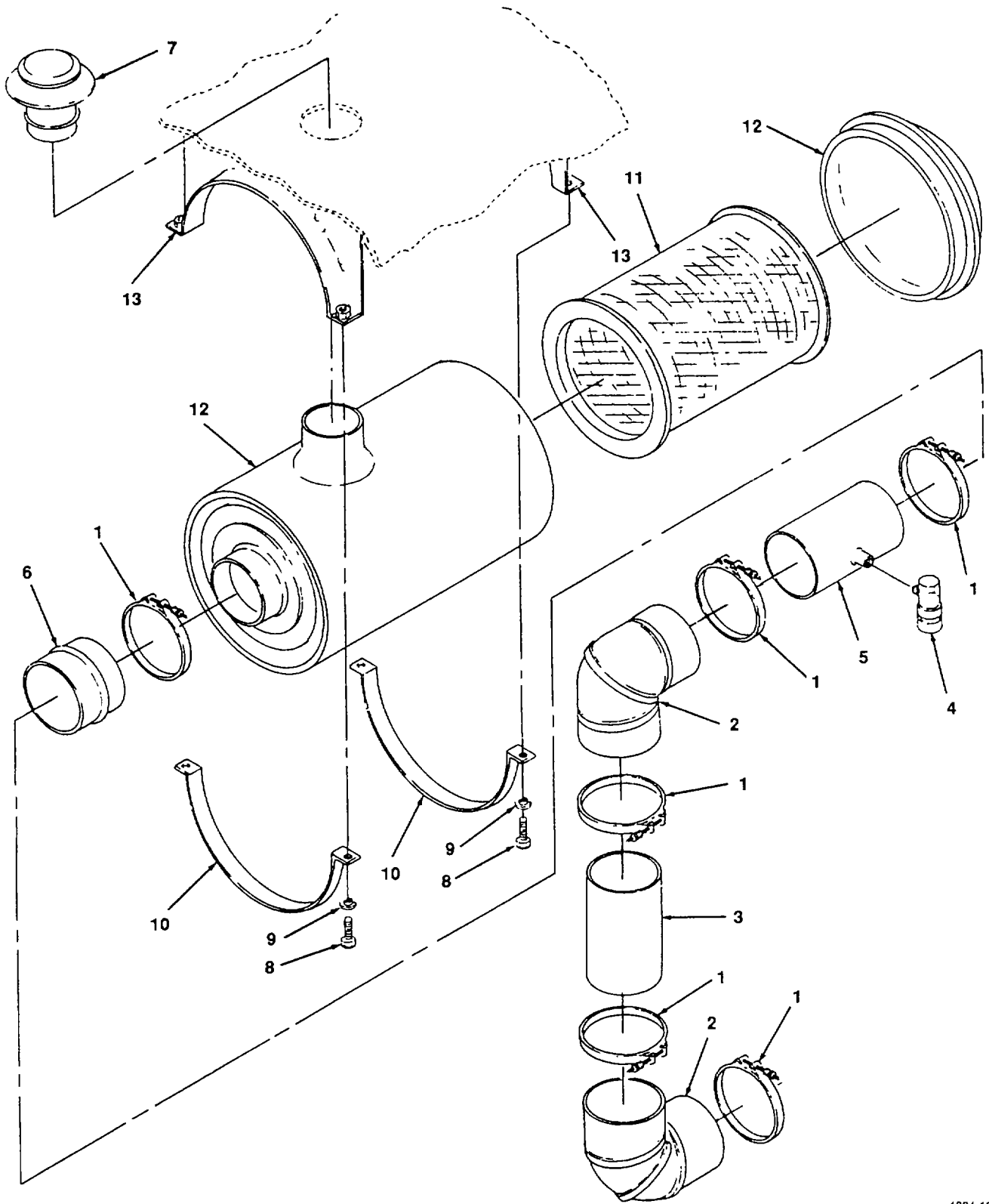


Figure 102. Water Filter Hoses and Clamps.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 102 WATER FILTER, HOSES & CLAMPS	
1	15434	258265	FILTER, WATER ASSEMBLY	1
2	15434	3305371	ELEMENT, FILTER	1
3	15434	204163	HEAD, FILTER	1
4	15434	3010596	CAPSCREW, CAPTIVE, 3/8-16 X1 1/4 IN LONG	4
5	15434	3016190	CLAMP, HOSE	4
6	15434	3016187	HOSE, PLAIN	2
7	15434	179901	VALVE, SHUTOFF	2
8	15434	180221	ADAPTER, PLAIN PIPE	1
9	15434	70470	ELBOW	2
10	15434		ELBOW	2
11	15434	3031126	CAPSCREW, CAPTIVE	2
12	15434	109594	WASHER, FLAT	2
13	15434	211448	BRACKET	1
			END OF FIGURE	



4834-103

Figure 103. Air Cleaner



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 103 AIR CLEANER	
1	15434	125741	CLAMP, TEE BOLT	6
2	15434	3014244	HOSE, ELBOW, RUBBER	2
3			TUBE, 5 IN	1
4			INDICATOR, RESTRICTION (NSN 6685-00-179-8632)	1
5			TUBE, 5 IN	1
6	15434	103808	HOSE, HUMP	1
7	15434	3030790	CAP, AIR CLEANER	1
8	96906	MS90725-40	SCREW, HEX, 5/16 X 2 IN	4
9	96906	MS35338-45	WASHER, LOCK, 5/16	4
10	51225	57-0262-2	STRAP, LOCK	2
11	15434	3022209	ELEMENT, AIR CLEANER	1
12	15434	3022211	CLEANER, AIR	1
13	65125	57-0262-1	PLATE, MOUNTING	2
			END OF FIGURE	

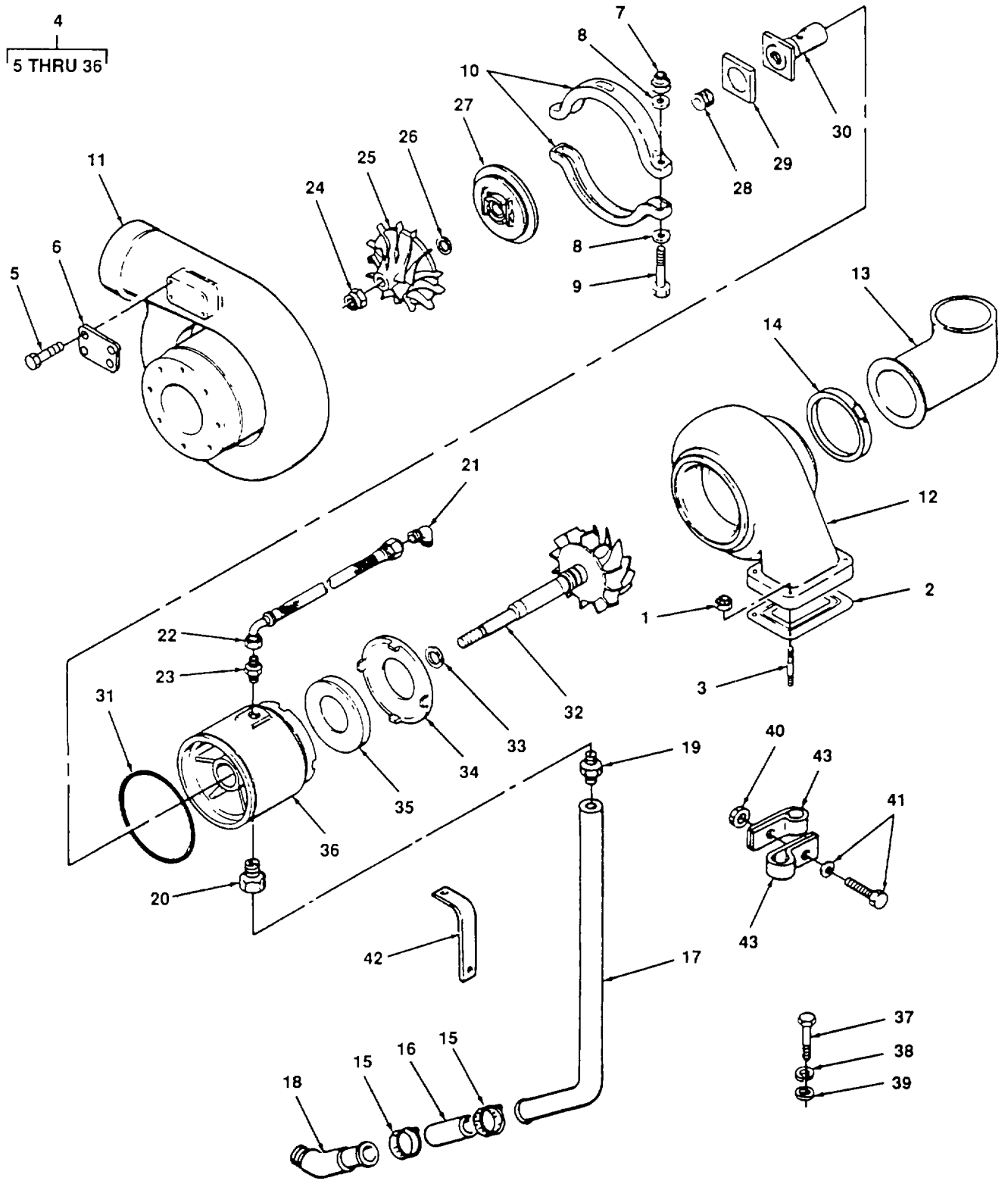


Figure 104. Turbocharger Assembly.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 104 TURBOCHARGER ASSEMBLY	
1	15434	219138	NUT, LOCK	4
2	15434	190849	GASKET, EXHAUST COLLECTOR	1
3	15434	3010915	STUD	4
4	15434	3036309	TURBOCHARGER ASSEMBLY	1
5	15434	S-2286	SCREW, DRIVE	4
6	15434	3011088	NAMEPLATE	1
7	15434	167299	NUT, LOCK	2
8	15434	S-631	WASHER, FLAT	4
9	15434	194010	SCREW, HEX-HEAD CAP	2
10	15434	3034720	CLAMP, V-BAND	2
11	15434	3026993	HOUSING, COMPRESSOR	1
12	15434	210250	HOUSING, TURBINE	1
13	15434	190351	ADAPTER, EXHAUST	1
14	15434	186917	CLAMP, V-BAND	1
15	15434	43828-A	CLAMP, HOSE	2
16	15434	3035174	HOSE, FLEXIBLE	1
17	15434	3022867	TUBE, TURBO OIL DRAIN	1
18	15434	3003536	ELBOW, TURBO OIL RETURN	1
19	15434	3014354	CONNECTOR, MALE	1
20	15434	3022865	CONNECTOR, FEMALE	1
21	15434	68645	ELBOW, MALE ADAPTER	1
22	15434	209958	HOSE, FLEXIBLE	1
23	15434	186918	ADAPTER, EXHAUST MANIFOLD	1
24	15434	3034304	NUT, LOCK	1
25	15434	3031980	IMPELLER	1
26	15434	156444	SEAL	1
27	15434	216804	SUPPORT	1
28	15434	216802	SLEEVE	1
29	15434	170510	INSERT, BEARING	1
30	15434	156240	BEARING	1
31	15434	202456	O-RING	1
32	15434	3032835	SHAFT, W/WHEEL	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 104 TURBOCHARGER ASSEMBLY (CONT)	
33	15434	3034736	SEAL, RING	1
34	15434	171570	SHIELD, HEAT	1
35	15434	202377	PACKING, INSULATION	1
36	15434	202376	HOUSING, BEARING	1
37	15434	S-107	SCREW, HEX-HEAD CAP, 5/16-18 X 3/4 IN LONG	3
38	15434	S-605	WASHER, LOCK 7/32	3
39	15434	S-626	WASHER, FLAT	3
40	15434	S-221	NUT, HEX 5/16	2
41	15434	3013904	CAPSCREW, CAPTIVE	1
42	15434	69465	CLIP	1
43	15434	108722	CLIP	2
			END OF FIGURE	

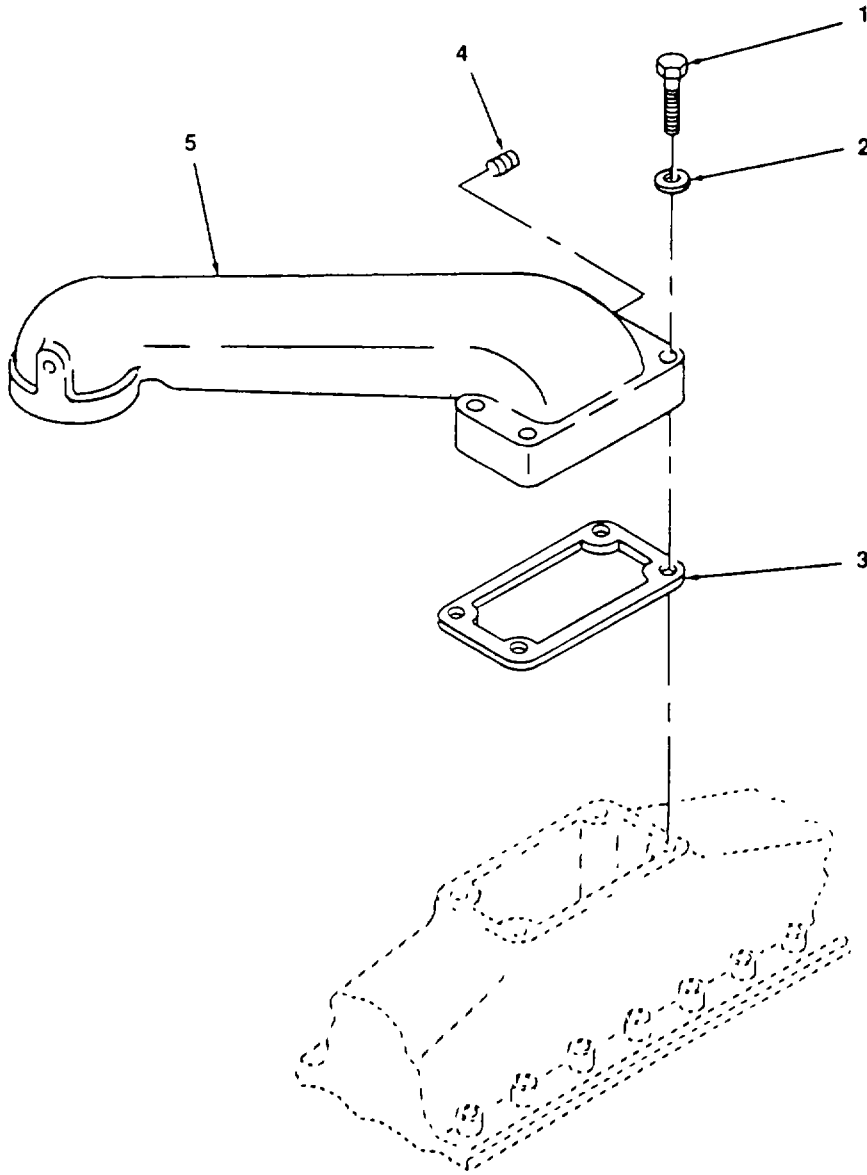


Figure 105. Air Crossover

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 105 AIR CROSSOVER	
1	15434	S-103-D	SCREW, HEX-HEAD CAP 3/8-16X1 1/4 IN LONG	4
2	15434	S-679	WASHER, FLAT	4
3	15434	216487	GASKET, AIR CROSSOVER	1
4	15434	70295	PLUG, PIPE: 1/8	1
5	15434	3018686	CONNECTION, AIR CROSSOVER	1
			END OF FIGURE	

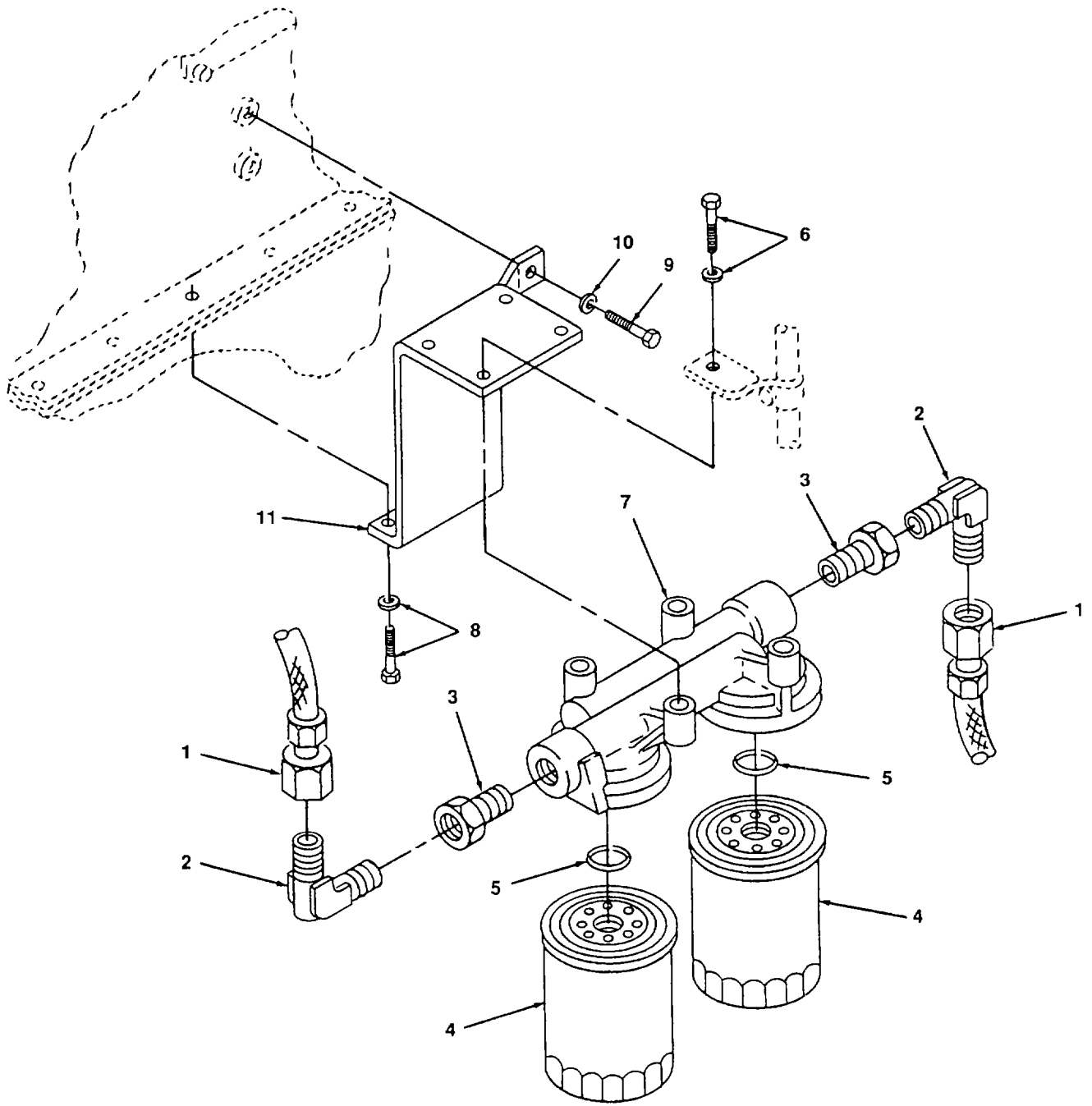


Figure 106. Fuel Filter.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 106 FUEL FILTER	
1	15434	AS1002255	HOSE	2
2	15434	129859	ELBOW, MALE	2
3	15434		ADAPTER	2
4	15434	156172	ELEMENT, FILTER	2
5	15434	255622	SEAL, ELEMENT	2
6	15434	3034526	CAPSCREW, CAPTIVE	4
7	15434	212013	HEAD, FILTER	1
8	15434	3032674	CAPSCREW, CAPTIVE	2
9	15434	S-120-A	CAPSCREW 9/16-18 X1 IN LONG	1
10	15434	S-602	WASHER, LOCK 9/16	1
11	15434	3011380	BRACKET, FILTER	1
			END OF FIGURE	



1  
2 THRU 10

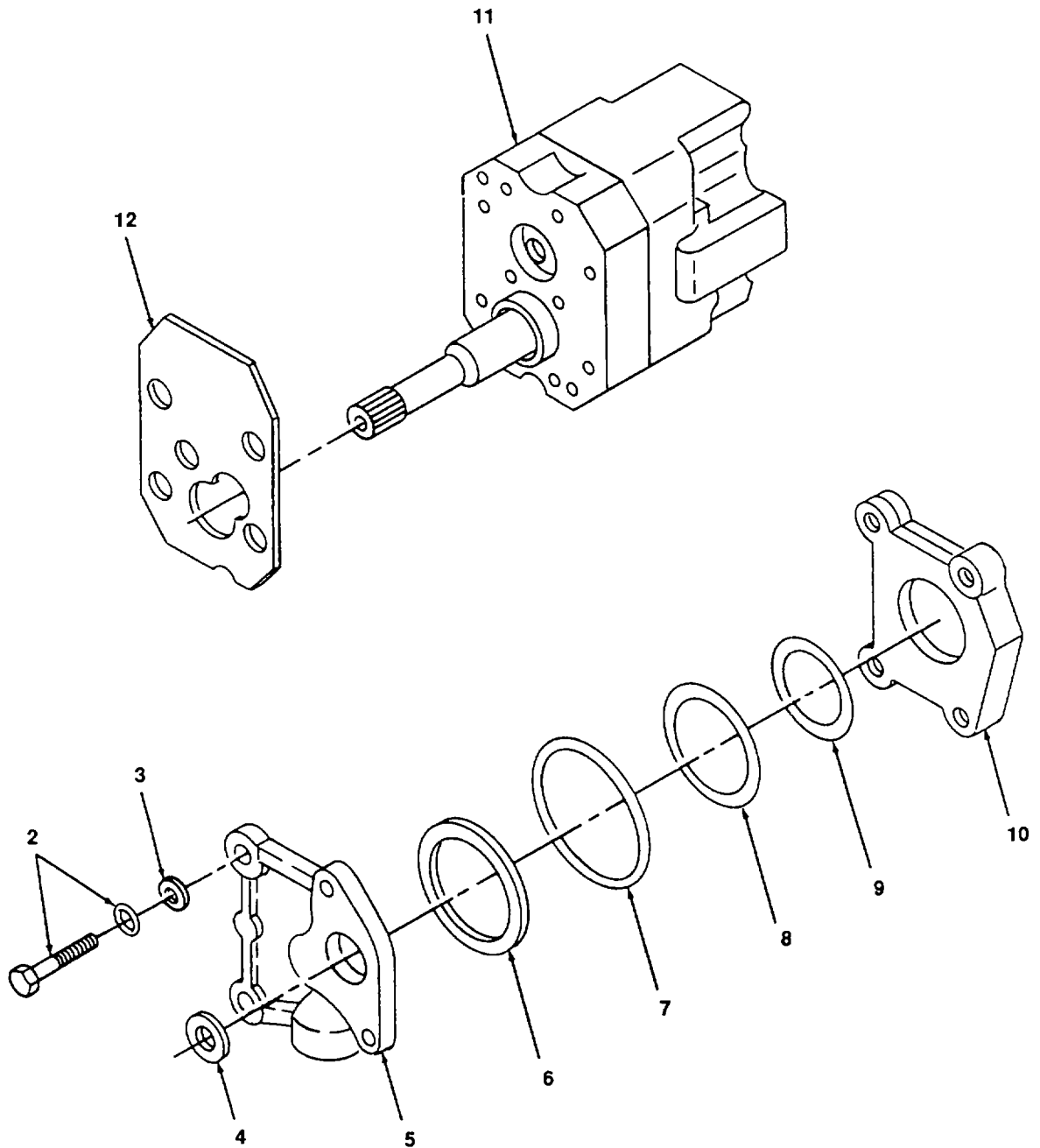


Figure 107. Fuel Pump and Damper.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 107 FUEL PUMP AND DAMPER	
1	15434	BM-76340	DAMPER, FUEL PUMP	1
2	15434	3017051	CAPSCREW	2
3	15434	70704	WASHER, FLAT	2
4	15434	151900	SEAL, DAMPER TO GEAR PUMP	1
5	15434	153336	BODY, DAMPER	1
6	15434	100099	O-RING	1
7	15434	202897	DIAPHRAGM	1
8	15434	139988	O-RING	1
9	15434	160514	WASHER, NYLON	1
10	15434	153338	PLATE	1
11	15434	3034217	PUMP, GEAR	1
12	15434	3026163	GASKET	1
			END OF FIGURE	

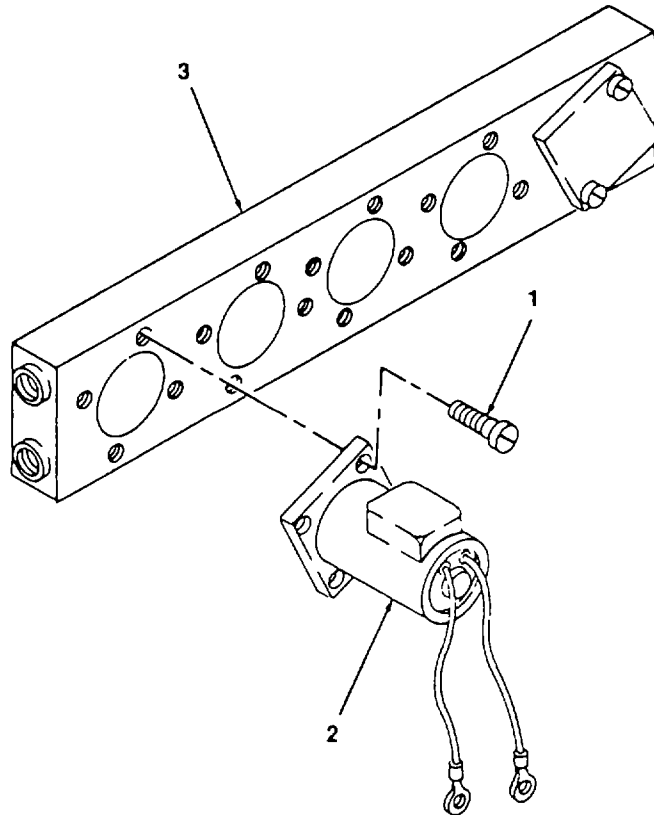


Figure 108. Fuel Control Solenoids

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2 3	96906	ESM-3011-3BC-3025	GROUP 18 ENGINE GROUP, DIESEL FIG. 108 FUEL CONTROL SOLENOIDS SCREW, MACHINE SOLENOID, FUEL CONTROL (VERSA PRODUCTS) MANIFOLD, FUEL CONTROL  END OF FIGURE	16 4 1

4  
5 THRU 17

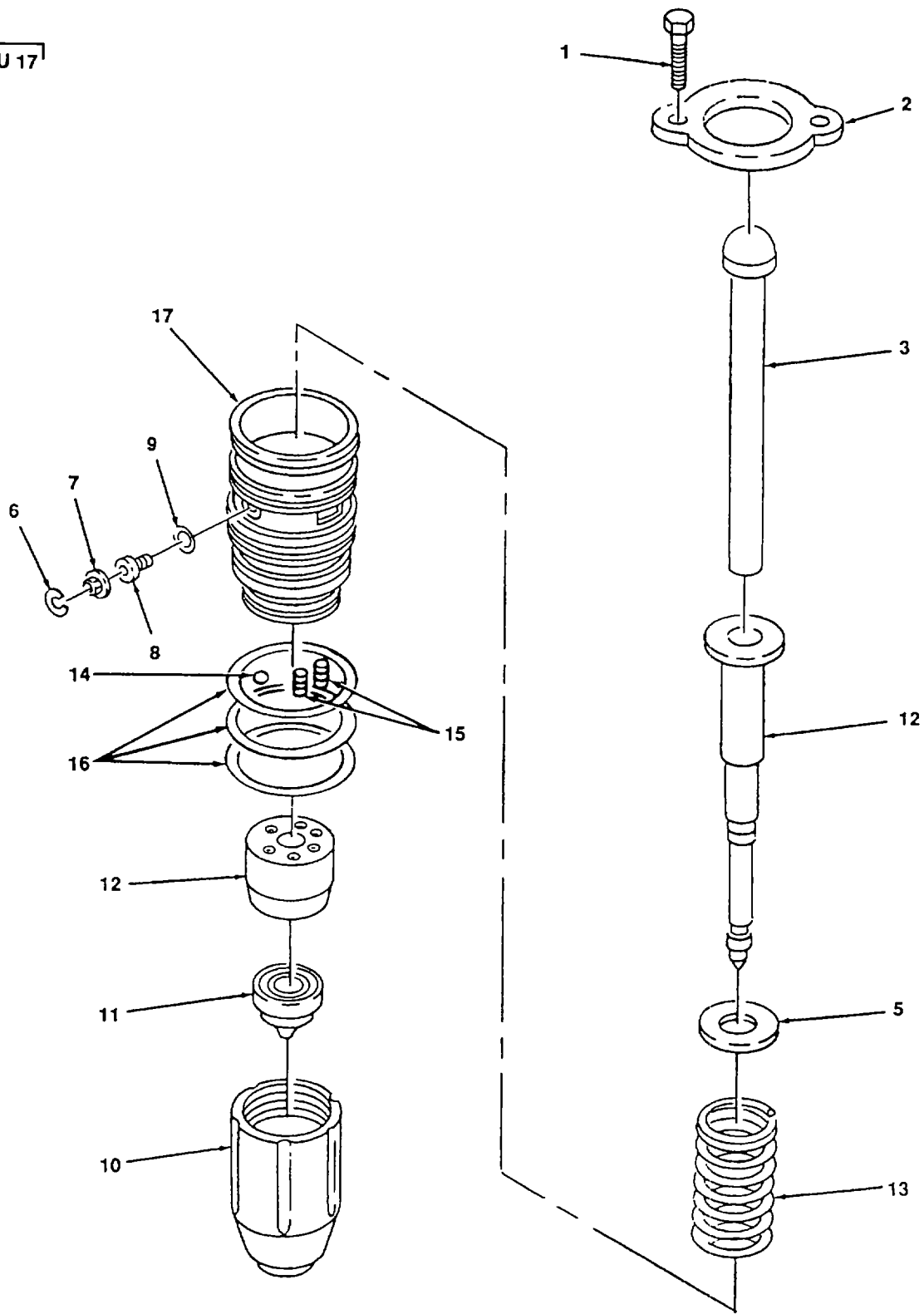


Figure 109. Fuel Injector.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 109 FUEL INJECTORS	
1	15434	3028279	CAPSCREW	12
2	15434	3031137	CLAMP, INJECTOR	6
3	15434	191916	LINK, INJECTOR	6
4	15434	3018217	INJECTOR, FUEL LESS LINK	6
5	15434	180626	WASHER	6
6	15434	174299	CLIP, FILTER SCREEN	6
7	15434	30308706	SCREEN, FILTER	6
8	15434	3024914	PLUG	6
9	15434	173086	GASKET, ORIFICE	6
10	15434	185138	RETAINER, CUP	6
11	15434	3012538	CUP, INJECTOR	6
12	15434	3022552	PLUNGER AND BARREL	6
13	15434	166009	SPRING, INJECTOR	6
14	15434	167157	BALL, CHECK	6
15	15434	203426	PIN, SPIROL	12
16	15434	193736	O-RING	18
17	15434	185139	ADAPTER, INJECTOR	6
			END OF FIGURE	

5  
6 THRU 16

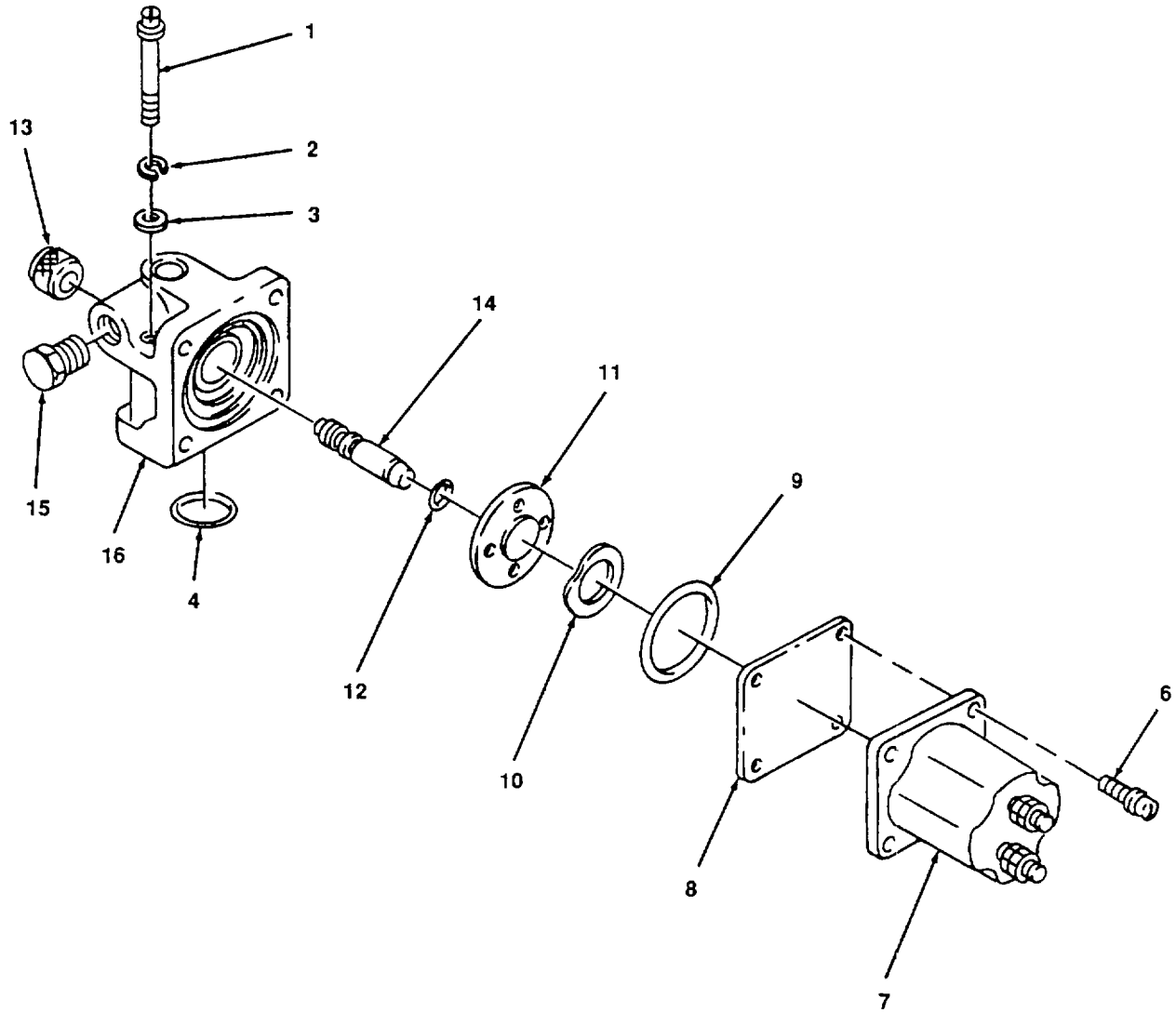


Figure 110. Engine Shutdown Valve.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 110 ENGINE SHUTDOWN VALVE	
1	15434	S-189-C	CAPSCREW	2
2	15434	181466	WASHER, LOCK	2
3	15434	67684	WASHER, FLAT	2
4	15434	154087	RING, SEALING	1
5	15434	3035344	VALVE ASSEMBLY, SHUTDOWN	1
6	15434	187556	SCREW	4
7	15434	134074	SOLENOID	1
8	15434	129839	SHIELD, FUEL	1
9	15434	129888	O-RING	1
10	15434	129768	SPRING	1
11	15434	3030970	VALVE	1
12	15434	190876	O-RING	1
13	15434	129838	KNOB	1
14	15434	3000266	SHAFT, SHUTOFF VALVE	1
15	15434	3025458	PLUG, PIPE	1
16	15434	129826	HOUSING, VALVE	1
			END OF FIGURE	



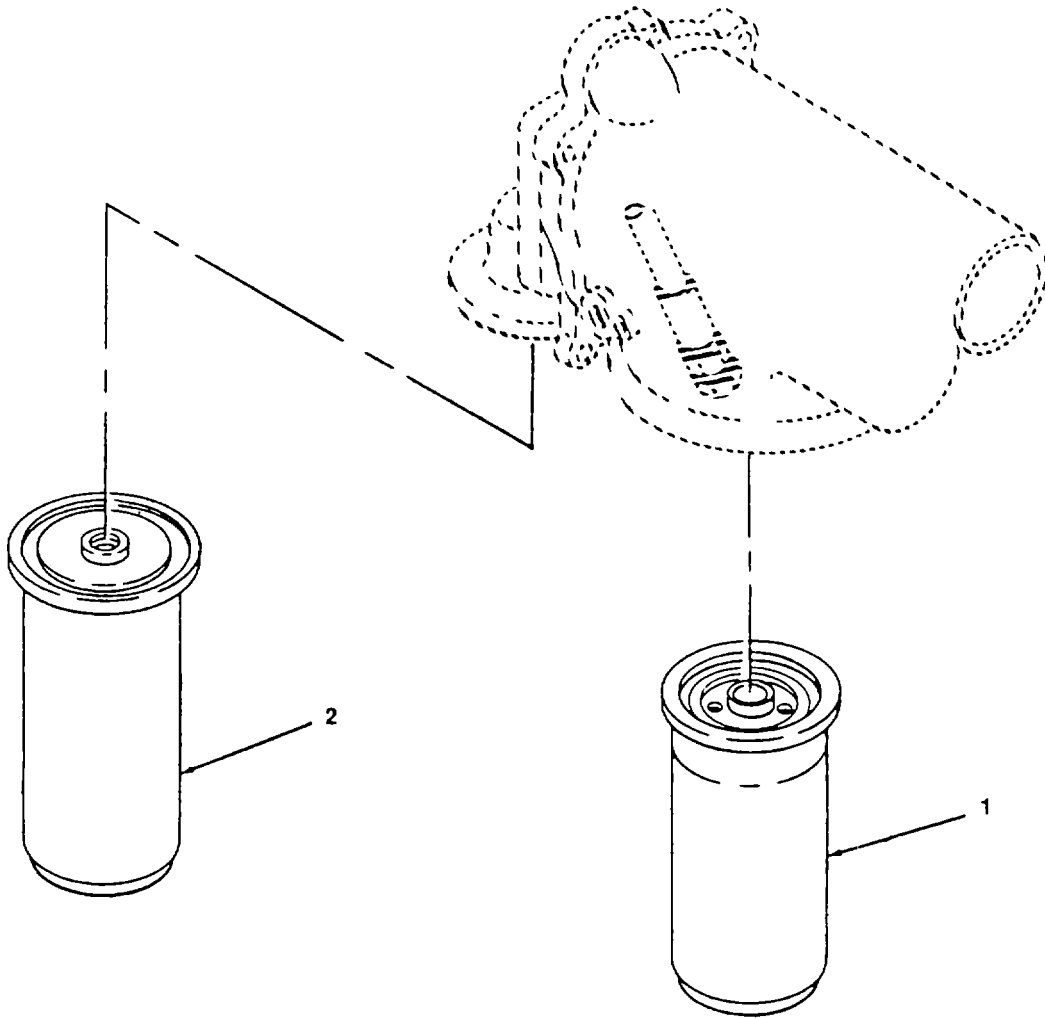


Figure 111. Oil Filter.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1	15434	299670	GROUP 18 ENGINE GROUP, DIESEL	1
2	15434	3304232	FIG. 111 OIL FILTER FILTER, LUBE OIL FILTER, OIL BYPASS	1
END OF FIGURE				

1  
2 THRU 30

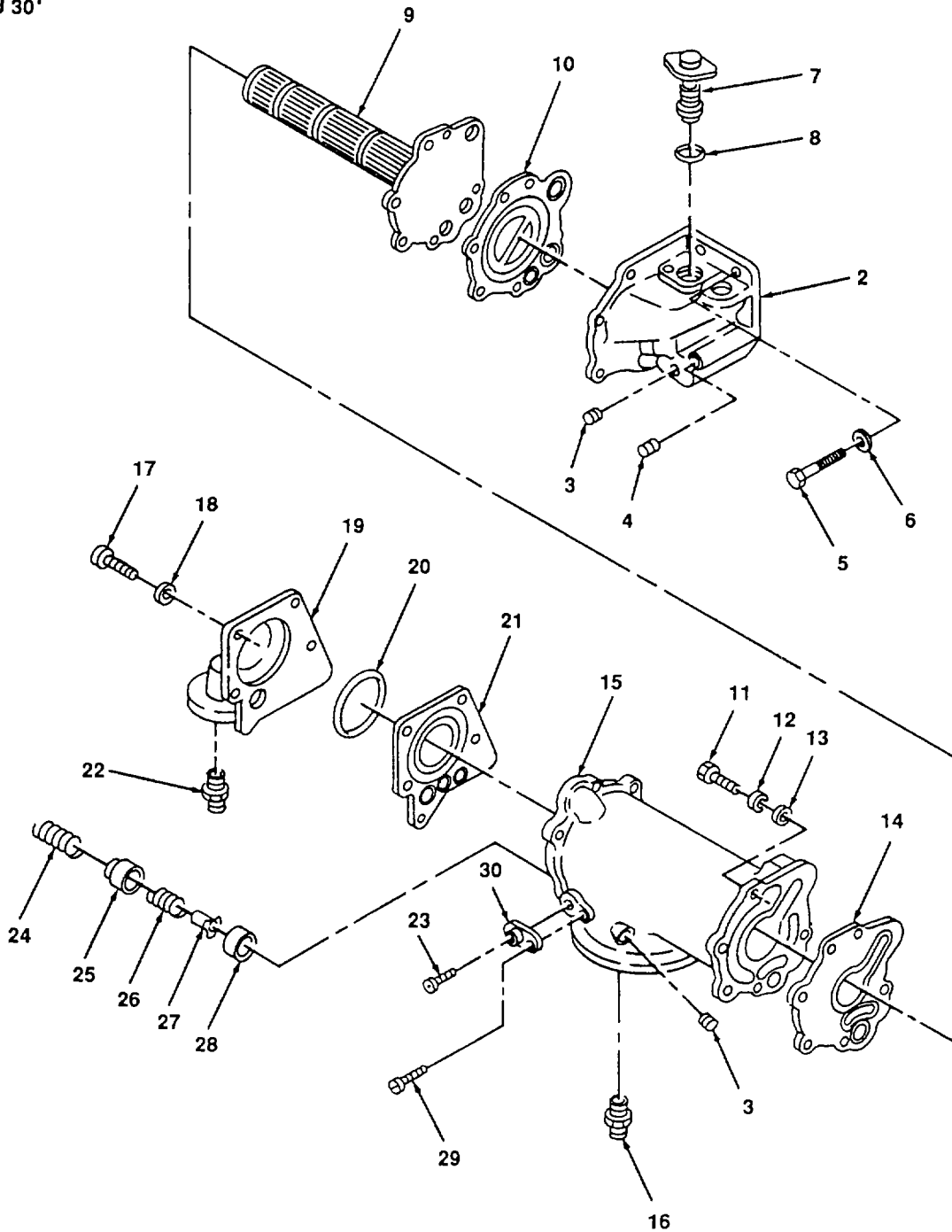


Figure 112. Cooler, Oil.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 112 COOLER, LUBRICATING OIL	
1	15434	3032307	ASSEMBLY, LUB OIL COOLER	1
2	15434	3027460	SUPPORT, OIL COOLER	1
3	15434	3013786	PLUG, PIPE 3/8 IN	2
4	15434	S-910-B	PLUG, PIPE 1/4 IN	1
5	15434	137795	CAPSCREW 5/16-18 X 5-1/2 IN	2
6	15434	S60H	WASHER, LOCK	1
7	15434	3023512	VALVE, BYPASS	1
8	15434	3028333	O-RING SEAL	1
9	15434	3018692	CORE, COOLER	1
10	15434	3018696	GASKET, OIL COOLER CORE	1
11	15434	S137	CAPSCREW 3/8-16 X 2 IN	6
12	15434	S-604	LOCKWASHER 3/8 IN	6
13	15434	S-602	WASHER, PLAIN 13/32 IN	6
14	15434	3018693	GASKET, OIL COOLER HOUSING	1
15	15434	3036231	HOUSING, LUB OIL COOLER	1
16	15434	3034578	ADAPTER, FILTER HEAD	1
17	15434	10807	CAPSCREW 3/8-16 X 1 1/2 IN	4
18	15434	S602	WASHER, PLAIN 13/32 IN	4
19	15434	3018700	HEAD, LUB OIL FILTER	1
20	15434	3018695	SEAL, RECTANGULAR RING	1
21	15434	3027496	GASKET, OIL COOLER COVER	1
22	15434	3021656	INSERT, FILTER HEAD	1
23	15434	101996	CAPSCREW 18-32 X 3/8 IN	1
24	15434	3030802	SPRING, COMPRESSION	1
25	15434	3030805	PISTON, PRESSURE SENSING	1
26	15434	3030803	SPRING, COMPRESSION	1
27	15434	3030806	PLUNGER, BYPASS VALVE	1
28	15434	3030804	PISTON, BYPASS VALVE	1
29	15434	3031005	CAPSCREW	1
30	15434	3035028	UNIT, SENDING	1
			END OF FIGURE	

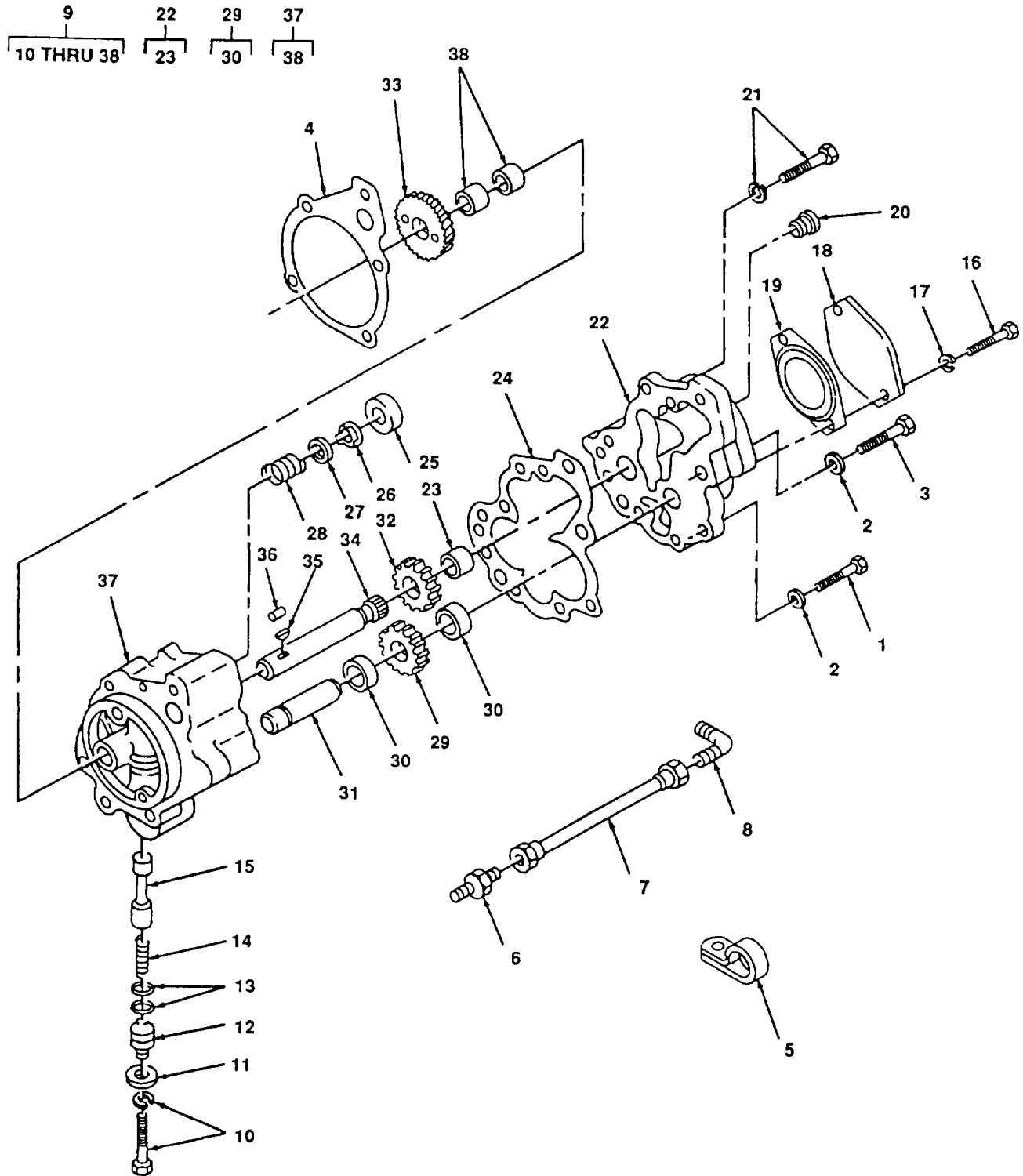


Figure 113. Oil Pump Assembly.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 113 OIL PUMP ASSEMBLY	
1	15434	S-108-A	CAPSCREW 7/16-20 X 1 3/4 IN	2
2	15434	S-610	WASHER, LOCK 7/16	5
3	15434	S-142A	CAPSCREW 7/16-20 X 4 1/2 IN	3
4	15434	3031434	GASKET, PUMP	1
5	15434	68152	CLIP	1
6	15434	S-1047-A	ELBOW, MALE ADAPTER	1
7	15434	AS00401700SS	HOSE	1
8	15434	68139	ELBOW, MALE ADAPTER	1
9	15434	3027421	PUMP, LUBRICATING OIL	1
10	15434	3022589	CAPSCREW, CAPTIVE 5/16-18 X 5/8 IN	1
11	15434	146161	WASHER, FLAT	1
12	15434	3012726	PLUG, RETAINER	1
13	15434	145504	SEAL, O-RING	2
14	15434	3010146	SPRING, PRESSURE	1
15	15434	3012529	PLUNGER, PRESSURE REGULATOR	1
16	15434	S-112	CAPSCREW 3/8-16X1 IN	2
17	15434	S-604	WASHER, LOCK 3/8 IN	2
18	15434	204048	PLATE, COVER	1
19	15434	3004242	GASKET, COVER PLATE	1
20	15434	3013786	PLUG, PIPE 3/8 IN	1
21	15434	3022590	CAPSCREW, CAPTIVE 5/16-18 X 1 IN	7
22	15434	3014964	COVER, LUBRICATING PUMP	1
23	15434	69521	BUSHING, COVER	1
24	15434	3014778	GASKET, COVER TO BODY	1
25	15434	179063	PLUG, RETAINER	1
26	15434	3014755	DISC, BYPASS VALVE	1
27	15434	3014754	WASHER, PLAIN	1
28	15434	3014756	SPRING, BY-PASS	1
29	15434	3014965	GEAR, IDLER	1
30	15434	68365	BUSHING, GEAR	2
31	15434	3012531	SHAFT, IDLER	1
32	15434	3014783	GEAR, DRIVE	1
33	15434	204832	GEAR, MAIN DRIVE	1
34	15434	3012532	SHAFT, DRIVE	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
35 36 37 38	15434 15434 15434 15434	183695 69519 3027413 69521	FIG 113. OIL PUMP ASSEMBLY (CONT)  KEY, DRIVE SHAFT PIN, DOWEL BODY, LUBRICATING PUMP BUSHING, PUMP BODY  END OF FIGURE	1 1 1 2

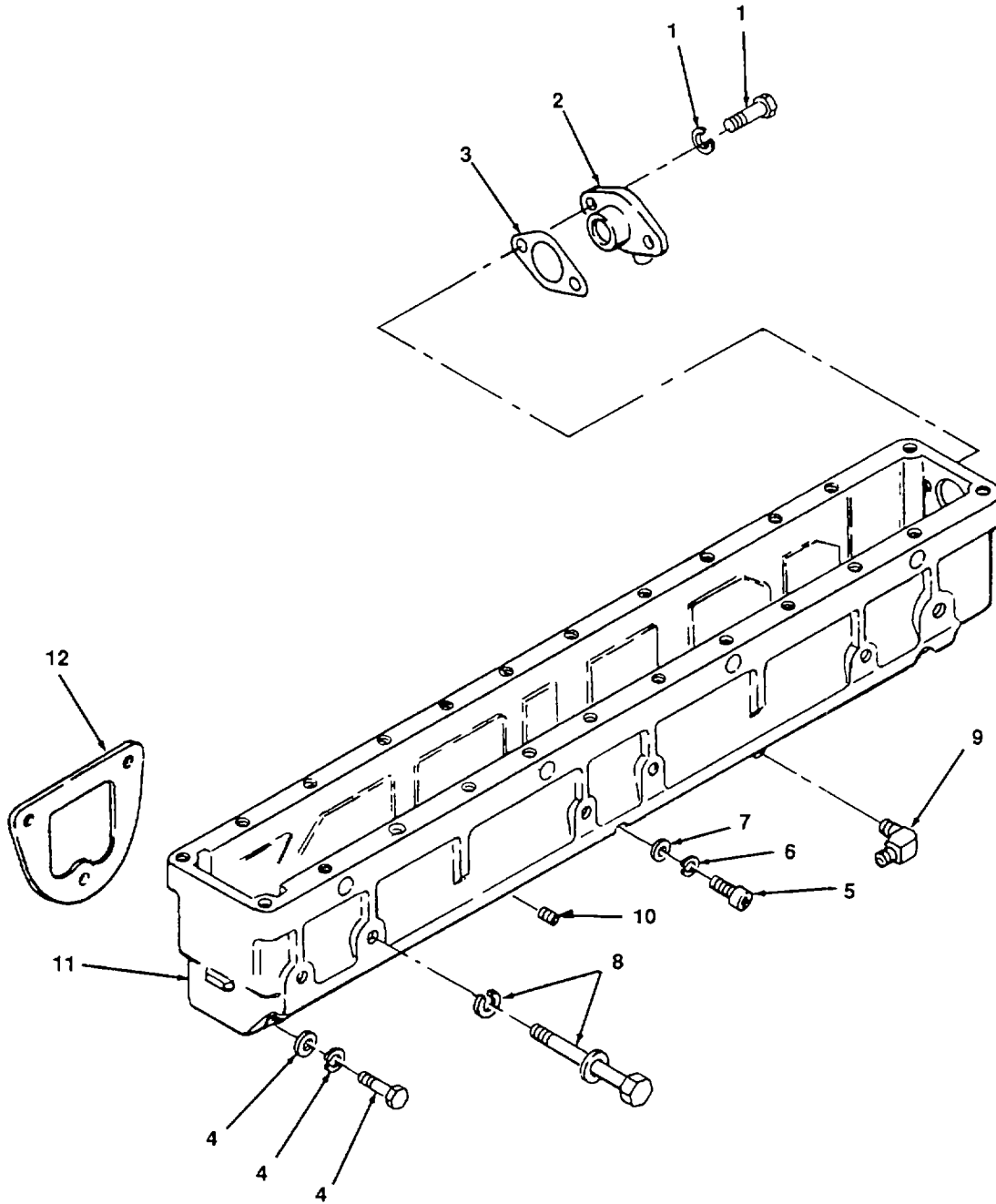


Figure 114. Manifold, Intake.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 114 INTAKE MANIFOLD	
1	15434	3012471	CAPSCREW, CAPTIVE	2
2	15434	3030843	CONNECTION, WATER INLET	1
3	15434	3032348	GASKET, WATER INLET CONNECTION	1
4	15434	3011716	CAPSCREW CAPTIVE. 3/8-16 X 1 3/8 IN	2
5	15434	69047-A	CAPSCREW, SOCKET HEAD 3/8-16 X1 1/2 IN	1
6	15434	S-605	WASHER, LOCK	1
7	15434	63842	WASHER, FLAT	1
8	15434	3028967	CAPSCREW, CAPTIVE 3/8-16 X 5 7/32 IN	6
9	15434		ELBOW	1
10	15434	70295	PLUG, PIPE	1
11	15434	3036811	MANIFOLD, AIR INTAKE	1
12	15434	3008591	GASKET, INTAKE MANIFOLD	3
			END OF FIGURE	

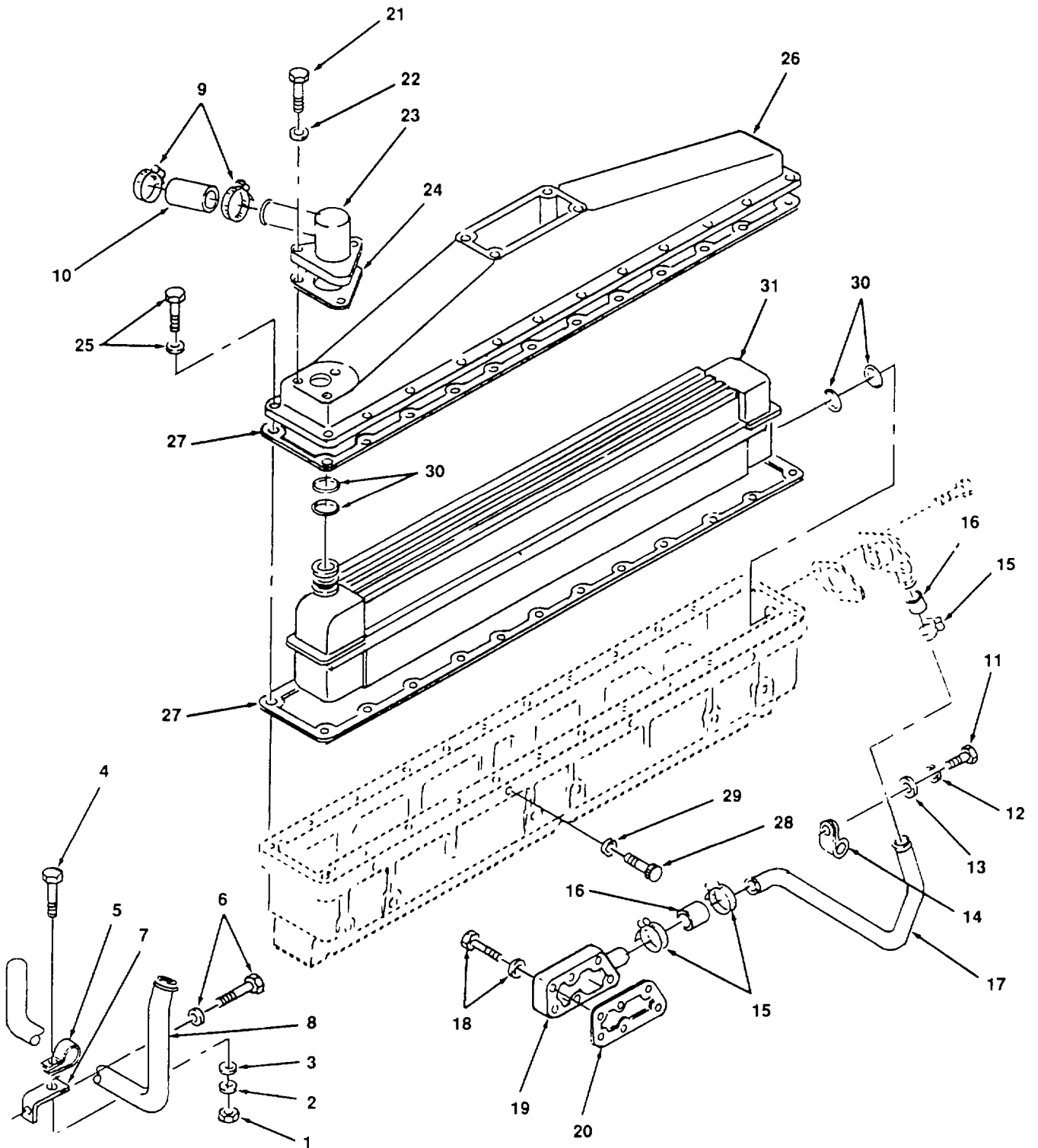
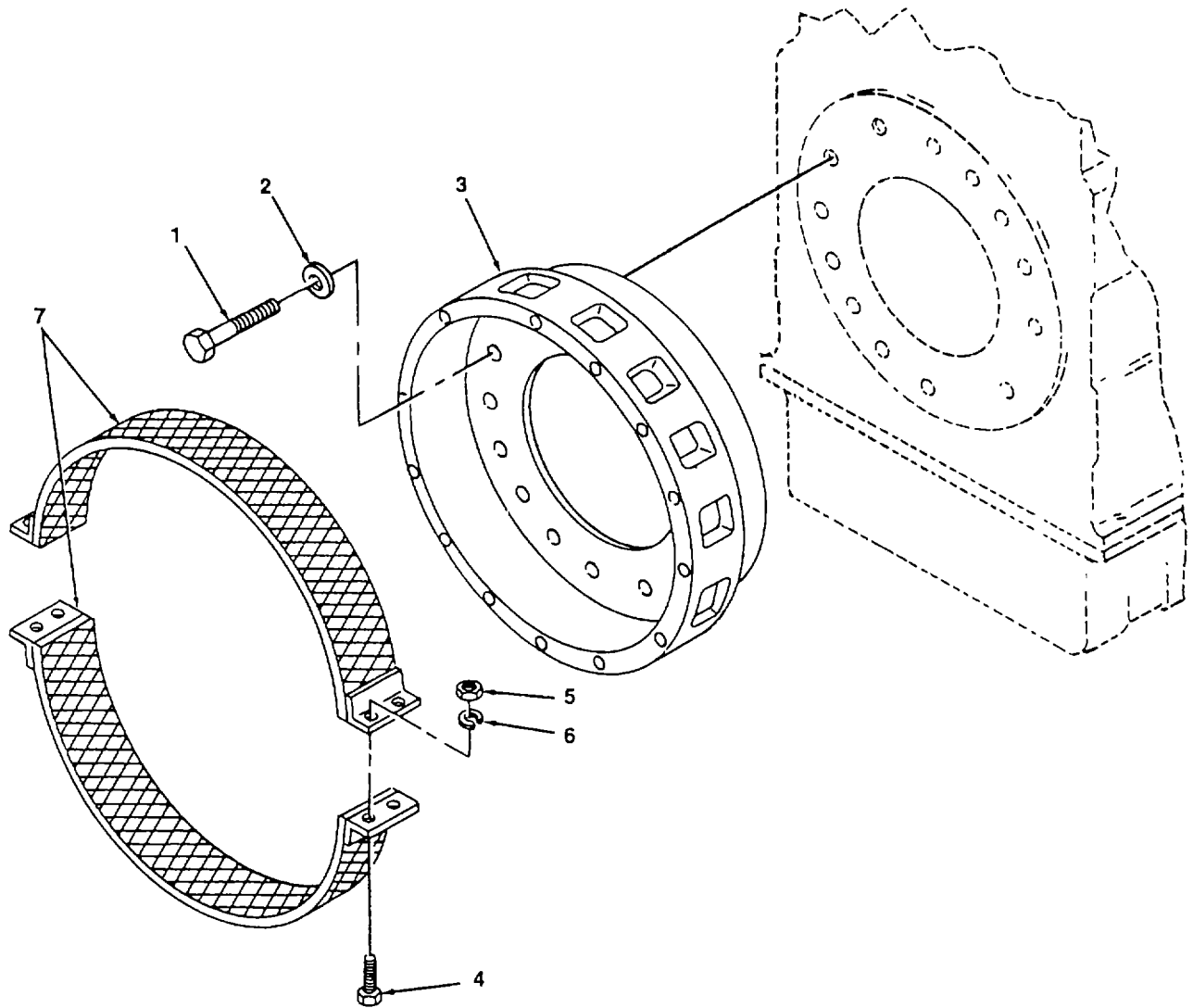


Figure 115. Aftercooler.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 115 AFTERCOOLER	
1	15434	S-223	NUT	1
2	15434	S-604	WASHER, LOCK	1
3	15434	S-602	WASHER, FLAT	1
4	15434	S-112	CAPSCREW	1
5	15434	107460	CLIP	1
6	15434	3012481	CAPSCREW, CAPTIVE 7/16-14 X11/2 IN.	1
7	15434	3035607	BRACE, TUBE	1
8	15434	3018099	TUBE, WATER TRANSFER	1
9	15434	3010550	CLAMP, HOSE	2
10	15434	3041968	HOSE, PLAIN	1
11	15434	S-190	CAPSCREW	2
12	15434	S-603	WASHER, LOCK	2
13	15434	S-658	WASHER, FLAT	2
14	15434	204263	CLIP	2
15	15434	43828-A	CLAMP, HOSE	4
16	15434	3041968	HOSE	2
17	15434	3028312	TUBE, WATER TRANSFER	1
18	15434	3011342	CAPSCREW, CAPTIVE	6
19	15434	3028288	CONNECTION, WATER INLET	1
20	15434	70089-1	GASKET, COVER PLATE	1
21	15434	3015283	CAPSCREW 5/16-18 X 1 IN	3
22	15434	S-684	WASHER, FLAT	3
23	15434	3013296	CONNECTION, WATER OUTLET	1
24	15434	215044	GASKET, WATER OUTLET CONNECTION	1
25	15434	3005508	CAPSCREW	24
26	15434	214154	COVER, AFTERCOOLER	1
27	15434	216486	GASKET, AFTERCOOLER COVER	2
28	15434	3030286	CAPSCREW	8
29	15434	3011610	WASHER, FLAT	8
30	15434	15952	SEAL, O-RING	4
31	15434	3028997	CORE, AFTERCOOLER	1
			END OF FIGURE	



4834-116

Figure 116. Bell Housing.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 116 BELL HOUSING	
1	15434		SCREW, CAP	13
2	15434		WASHER, FLAT	13
3	15434	FH1159	BELL HOUSING	1
4	96906	MS90725	SCREW, HEX 3/8-1 IN	4
5	96906	MS51967	NUT, 3/8	4
6	96906	MS35338-46	WASHER, LOCK	4
7			SCREEN	1
			END OF FIGURE	

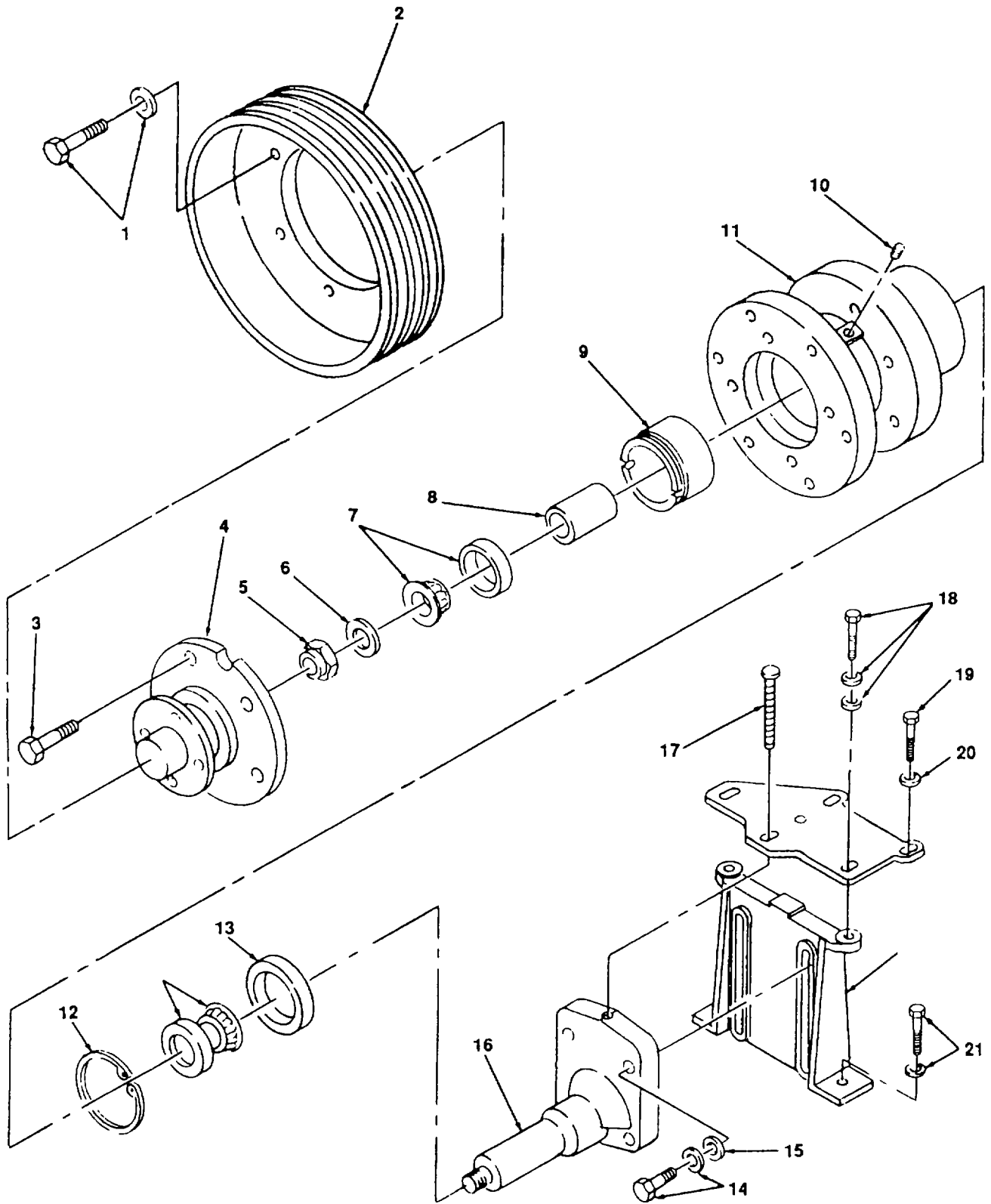


Figure 117. Accessory Drive.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 117 HUB AND DRIVE	
1	15434	3010596	CAPSCREW, CAPTIVE	6
2	15434	212488	PULLEY, FAN	1
3	15434	70896	CAPSCREW, 1/2-13 X 3/4	2
4	15434	208081	PILOT, FAN HUB	1
5	15434	142176	NUT, LOCK	1
6	15434	3-12467	WASHER, PLAIN	1
7	15434	3001281	BEARING, ROLLER	2
8	15434	3002129	SPACER, BEARING	1
9	15434	217007	SPACER, BEARING	1
10	15434	S-911-B	PLUG, PIPE, 1/8	2
11	15434	212485	HUB, FAN	1
12	15434	3001286	RING, RETAINING	1
13	15434	200307	SEAL, OIL	1
14	15434	3012483	CAPSCREW, CAPTIVE	4
15	15434	117267	WASHER, COUNTERWEIGHT	4
16	15434	201620	SHAFT, FAN, HUB	1
17	15434	66912-1-A	CAPSCREW	1
18	15434	3019574	CAPSCREW, CAPTIVE	2
19	15434	S-176	CAPSCREW, 1/2-13 X 5	2
20	15434	S-608	WASHER, LOCK, 1/2	2
21	15434	3015282	CAPSCREW, CAPTIVE	2
22	15434	210235	BRACKET, FAN	1
			END OF FIGURE	

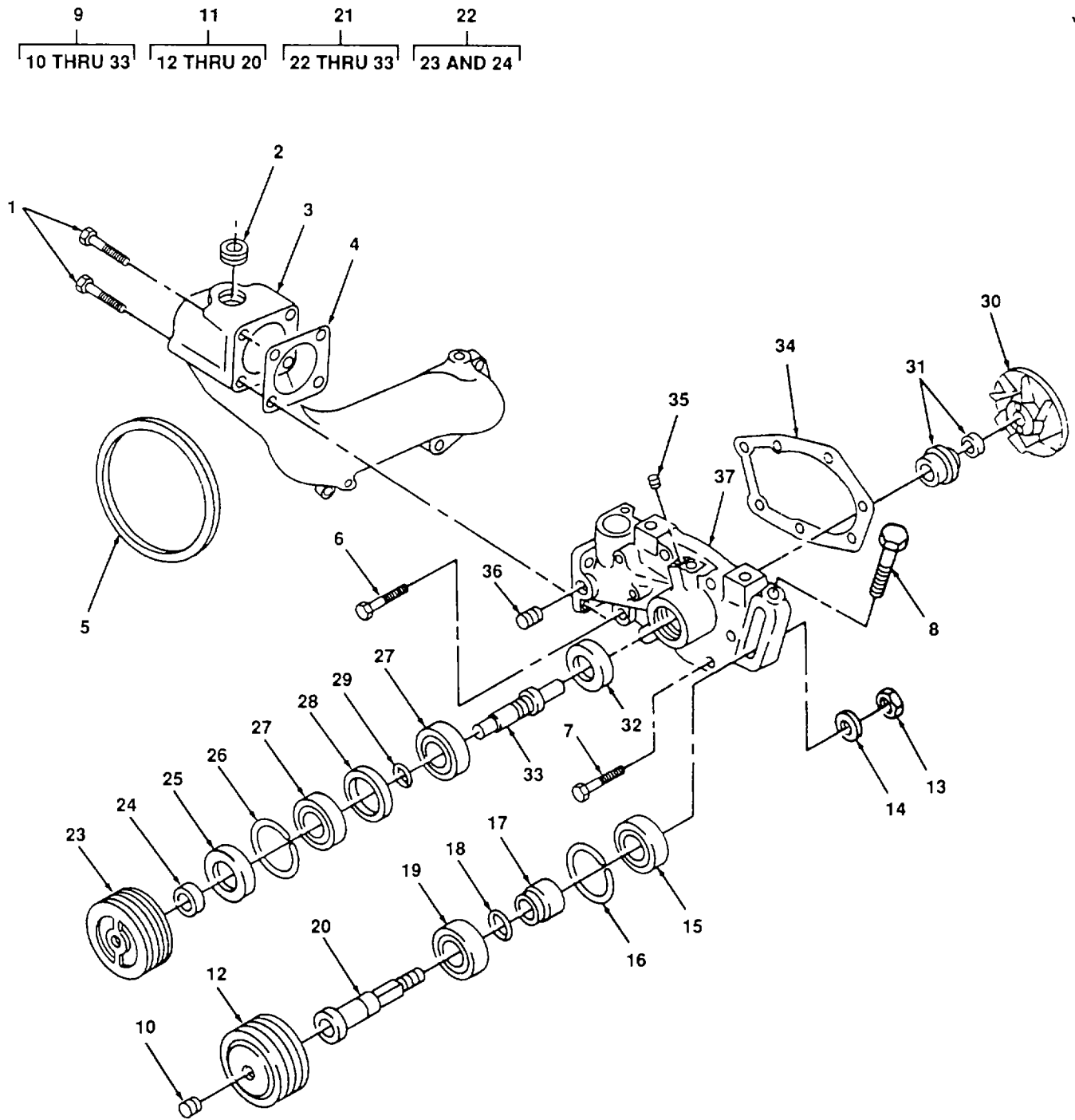


Figure 118. Water Pump and Idler.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP	
			FIG. 118 WATER PUMP AND IDLER ASSEMBLY	
1	15434	3010595	SCREW, CAPTIVE	4
2	15434	3008470	PLUG, PIPE	1
3	15434	3028280	CONNECTION, WATER TRANSFER	1
4	15434	3024960	GASKET, CONNECTION	1
5	15434		BELT, PUMP DRIVE (SET)	1
6	15434	3012469	SCREW, CAPTIVE	2
7	15434	3012468	SCREW, CAPTIVE	2
8	15434	182706	SCREW, ADJUSTING	1
9	15434	AR-45217	WATER PUMP AND IDLER ASSEMBLY	1
10	15434	S-965-E	PLUG, PIPE	1
11	15434	AR-45189	IDLER ASSEMBLY	1
12	15434	215397	PULLEY, IDLER	1
13	15434	S-201	NUT	1
14	15434	213082	WASHER	1
15	15434	203101	SEAL, OIL	1
16	15434	S-16255	RING, SNAP	1
17	15434	208120	SPACER, IDLER	1
18	15434	145506	O-RING	1
19	15434	3010150	BEARING, BALL	1
20	15434	208119	SHAFT, IDLER	1
21	15434	3004923	WATER PUMP, ASSEMBLY	1
22	15434	3025935	PULLEY, WATER PUMP	1
23	15434	3005507	PULLEY	1
24	15434	203097	SLEEVE, WEAR	1
25	15434	2030101	SEAL, OIL	1
26	15434	S-16255	RING, SNAP	1
27	15434	3010150	BEARING, BALL	2
28	15434	196844	SPACER, WATER PUMP BEARING	1
29	15434	112302	RING, SNAP	1
30	15434	3000888	IMPELLER, WATER PUMP	1
31	15434	3028294	SEAT AND SEAL ASSEMBLY	1
32	15434	203100	SEAL, OIL	1
33	15434	3000889	SHAFT, WATER PUMP	1
34	15434	3002385	GASKET, WATER PUMP	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
35	15434	3025458	FIG. 118 WATER PUMP AND IDLER ASSEMBLY (CONT)	
36	15434	3013786	PLUG, PIPE	1
37	15434	218274	PLUG, PIPE, 3/8 IN BODY, WATER PUMP	1
			END OF FIGURE	

8  
9 THRU 20

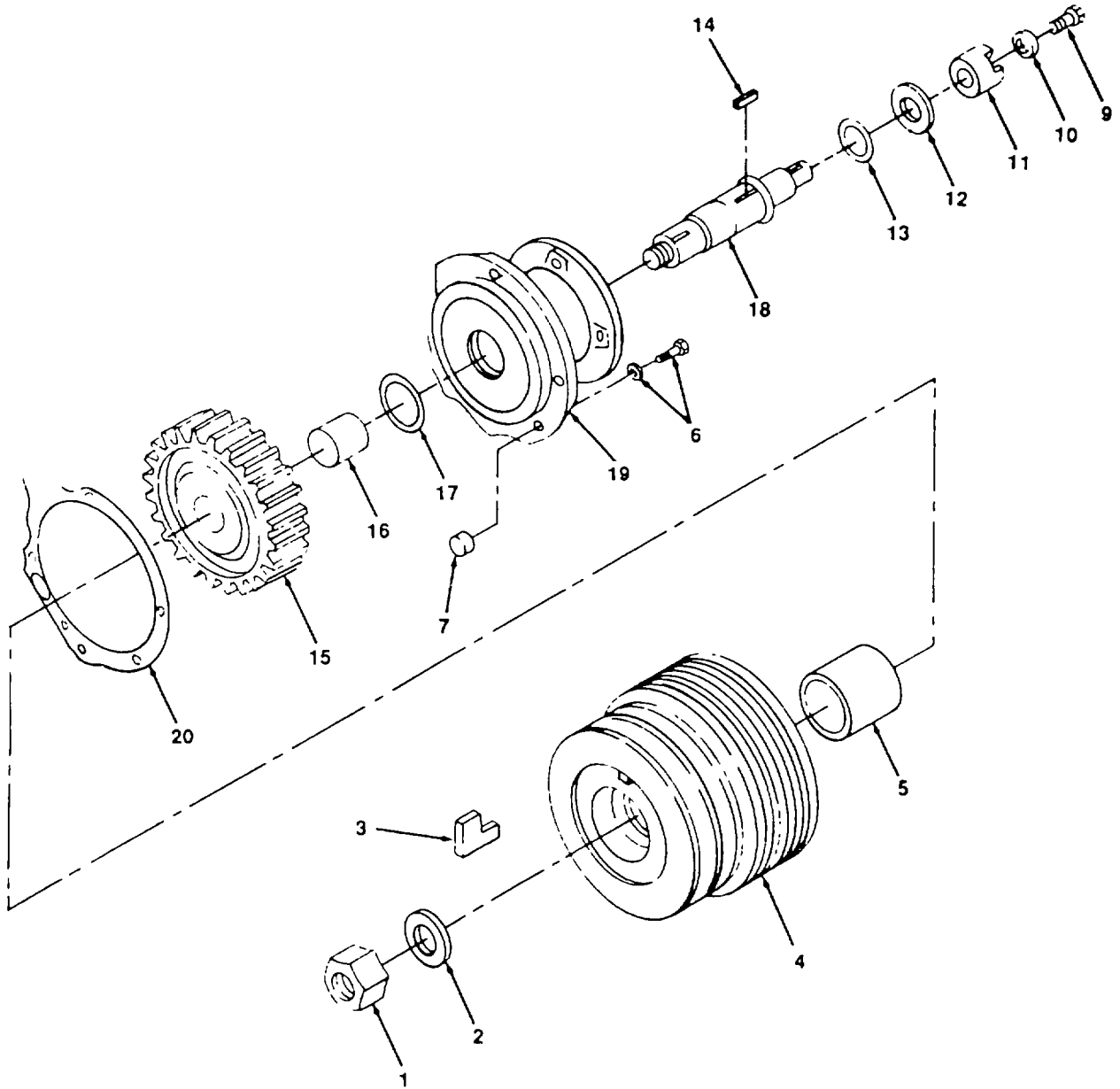


Figure 119. Accessory Drive

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP	
			FIG. 119 ACCESSORY DRIVE	
1	15434	3012526	NUT	1
2	15434	193136	WASHER	1
3	15434	3008947	SEAL, KEYWAY	1
4	15434	3025927	PULLEY, ACCESSORY DRIVE	1
5	15434	190397	SEAL, WEAR	1
6	15434	3010590	SCREW, CAPTIVE	5
7	15434	S-911-B	PLUG, PIPE	1
8	15434	3005131	ACCESSORY DRIVE ASSEMBLY	1
9	15434	129510	SCREW, CAP, HEX	1
10	15434	170664	WASHER, FLAT	1
11	15434	3000175	COUPLING	1
12	15434	3014103	WASHER, FLAT	1
13	15434	3026557	BEARING, THRUST	1
14	15434	3034438	PIN, GROOVED	1
15	15434	142689	GEAR, ACCESSORY DRIVE	1
16	15434	116391	BUSHING	1
17	15434	3026556	BEARING, THRUST	1
18	15434	3000171	SHAFT, ACCESSORY DRIVE	1
19	15434	3002170	HOUSING	1
20	15434	200809	GASKET, DRIVE HOUSING	1
			END OF FIGURE	

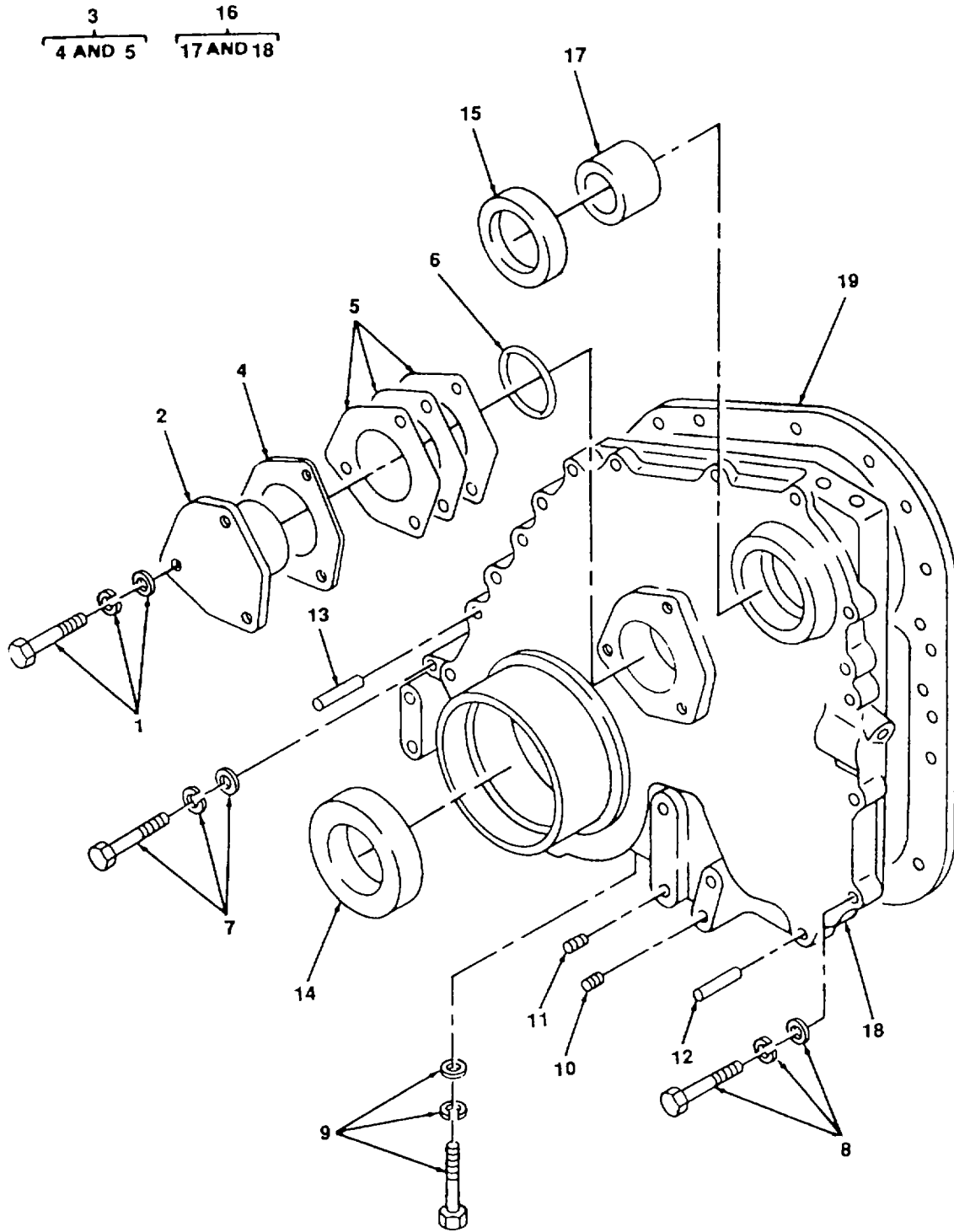
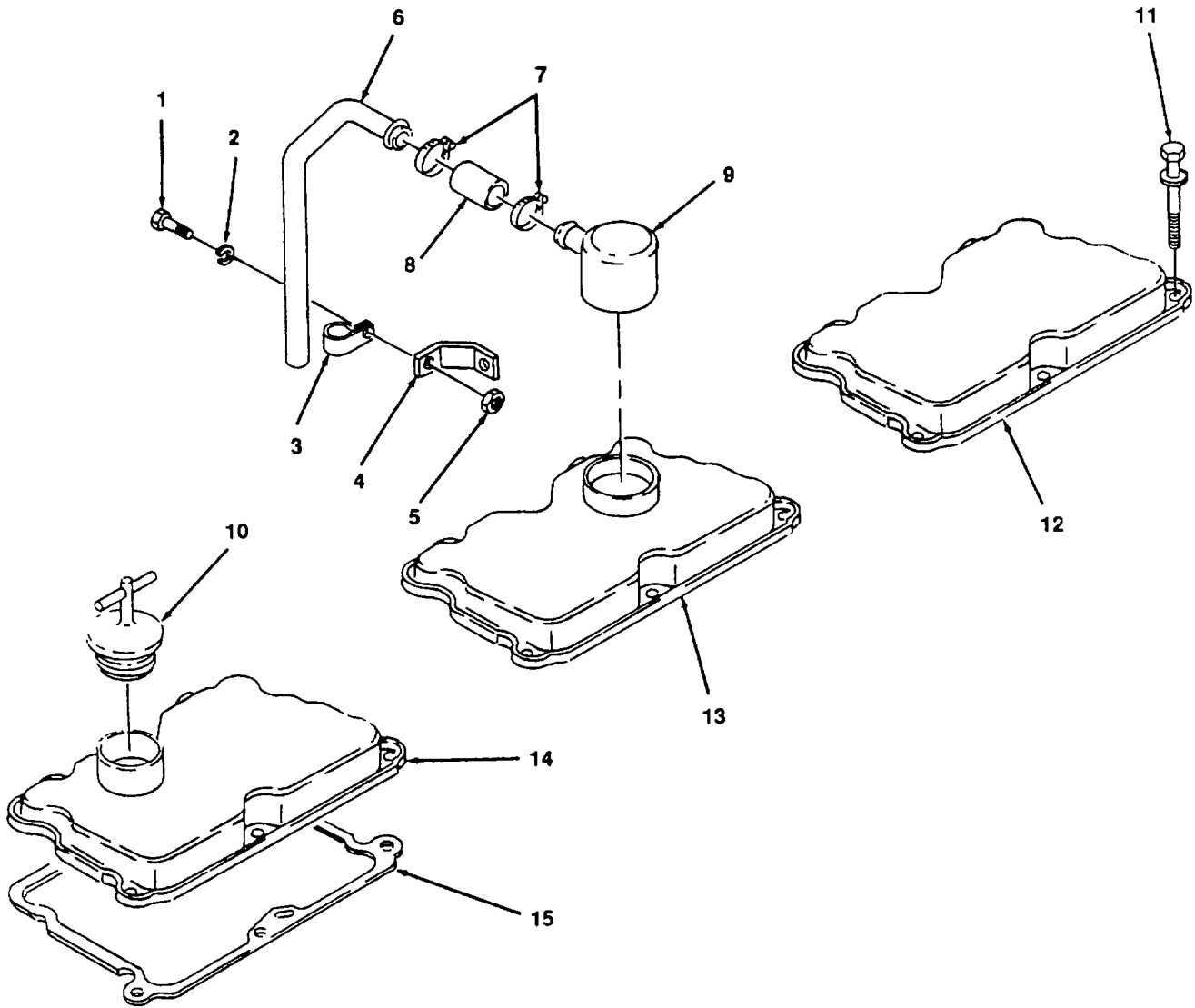


Figure 120. Gear Case Cover

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP	
			FIG. 120 GEAR CASE COVER	
1	15434	3011715	SCREW, CAPTIVE	3
2	15434	3008530	SUPPORT, CAM THRUST	1
3	15434	AR-01176	SHIM ASSEMBLY, THRUST	1
4	15434	188573	SHIM, INSERT	1
5	15434	65259A	SHIM, (010")	A/R
5	15434	65259B	SHIM (005")	A/R
5	15434	65259C	SHIM (002")	A/R
6	15434	215705	PACKING	1
7	15434	3011714	SCREW, CAPTIVE	3
8	15434	3011713	SCREW, CAPTIVE	1
9	15434	3011712	SCREW, CAPTIVE	9
10	15434	3013786	PLUG, PIPE, 3/8 IN	1
11	15434	S-911-B	PLUG, PIPE	3
12	15434	60408	DOWEL	1
13	15434	70653	DOWEL	1
14	15434	3020183	SEAL, OIL	1
15	15434	3020185	SEAL, OIL	1
16	15434	3024443	GEAR COVER ASSEMBLY	1
17	15434	132770	BUSHING	1
18	15434	201713	COVER, GEAR	1
19	15434	3021704	GASKET, GEAR COVER	1
			END OF FIGURE	



4834-121

Figure 121. Rocker Lever Covers and Crankcase Breather

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP	
			FIG. 121 ROCKER LEVER COVERS AND CRANKCASE BREATHERS	
1	15434	69793	SCREW, CAP, 3/8-24 X 3/4 IN	1
2	15434	S-604	WASHER, LOCK, 3/8	1
3	15434	68425	CLIP	1
4	15434	111670	SUPPORT, OIL GAGE TUBE	1
5	15434	S-205	NUT, 3/8-24	1
6	15434	152486	TUBE, BREATHER	1
7	15434	3008596	CLAMP, HOSE	2
8	15434	64775	HOSE, PLAIN	1
9	15434	3302880	BREATHER, CRANKCASE	1
10	15434	107981	CAP, FILLER	1
11	15434	3006182	SCREW, CAPTIVE	18
12	15434	3006183	COVER, ROCKER HOUSING	1
13	15434	3006358	COVER, ROCKER HOUSING	1
14	15434	3006349	COVER, ROCKER HOUSING	1
15	15434	30016453	GASKET, COVER	3
			END OF FIGURE	



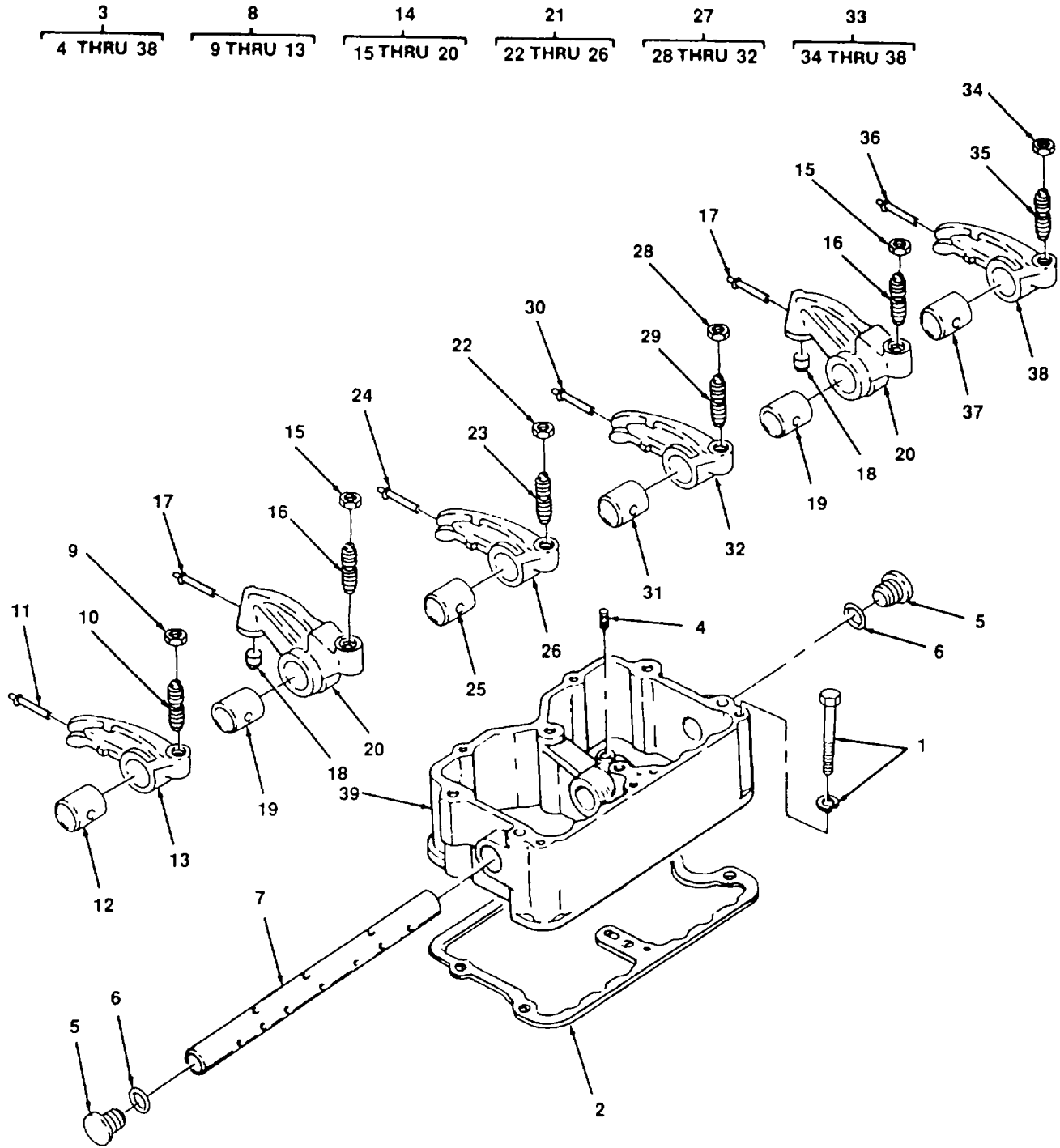


Figure 122. Rocket Levers Housing Assembly

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP	
			FIG. 122 ROCKER LEVER AND HOUSING	
1	15434	3010589	CAPSCREW, CAPTIVE	18
2	15434	3017750	GASKET, HOUSING TO HEAD	3
3	15434	AR-3307	HOUSING, ROCKER LEVER ASSEMBLY	3
4	15434	168319	SCREW, ROCKER LEVER SHAFT	3
5	15434	218736	PLUG, EXPANSION	6
6	15434	3000521	O-RING	6
7	15434	140297	SHAFT, ROCKER LEVER	3
8	15434	BM-95162	LEVER ASSEMBLY, EXHAUST VALVE	3
9	15434	S-212	NUT, ADJUSTING SCREW	1
10	15434	168306	SCREW, ADJUSTING	1
11	15434	208084	RIVET, BLIND	1
12	15434	104330	BUSHING, LEVER	1
13	15434	169705	LEVER	1
14	15434	AR-02308	LEVER ASSEMBLY, INJECTOR ROCKER	2
15	15434	S-212	NUT, ADJUSTING SCREW	1
16	15434	168306	SCREW, ADJUSTING	2
17	15434	208084	RIVET, BLIND	1
18	15434	194037	SOCKET	2
19	15434	218153	BUSHING, LEVER	1
20	15434	218152	LEVER, INJECTOR ROCKER	2
21	15434	BM-95160	LEVER ASSEMBLY, INTAKE VALVE	3
22	15434	S-212	NUT, ADJUSTING SCREW	1
23	15434	168306	SCREW, ADJUSTING	1
24	15434	208084	RIVET, BLIND	1
25	15434	140330	BUSHING, LEVER	1
26	15434	168803	LEVER, INTAKE VALVE	1
27	15434	BM-95160	LEVER ASSEMBLY, INTAKE VALVE	3
28	15434	S-212	NUT, ADJUSTING SCREW	1
29	15434	168306	SCREW, ADJUSTING	1
30	15434	208084	RIVET, BLIND	1
31	15434	140330	BUSHING, LEVER	1
32	15434	168805	LEVER, INTAKE	1
33	15434	BM95159	LEVER ASSEMBLY, VALVE	1
34	15434	S-212	NUT, ADJUSTING SCREW	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
35	15434	168306	FIG. 122 ROCKER LEVER AND HOUSING (CONT)	
36	15434	208084	SCREW, ADJUSTING	1
37	15434	140330	RIVET, BLIND	1
38	15434	168805	BUSHING, LEVER	1
39	15434	3007242	LEVER, INTAKE VALVE	1
			HOUSING	3
			END OF FIGURE	

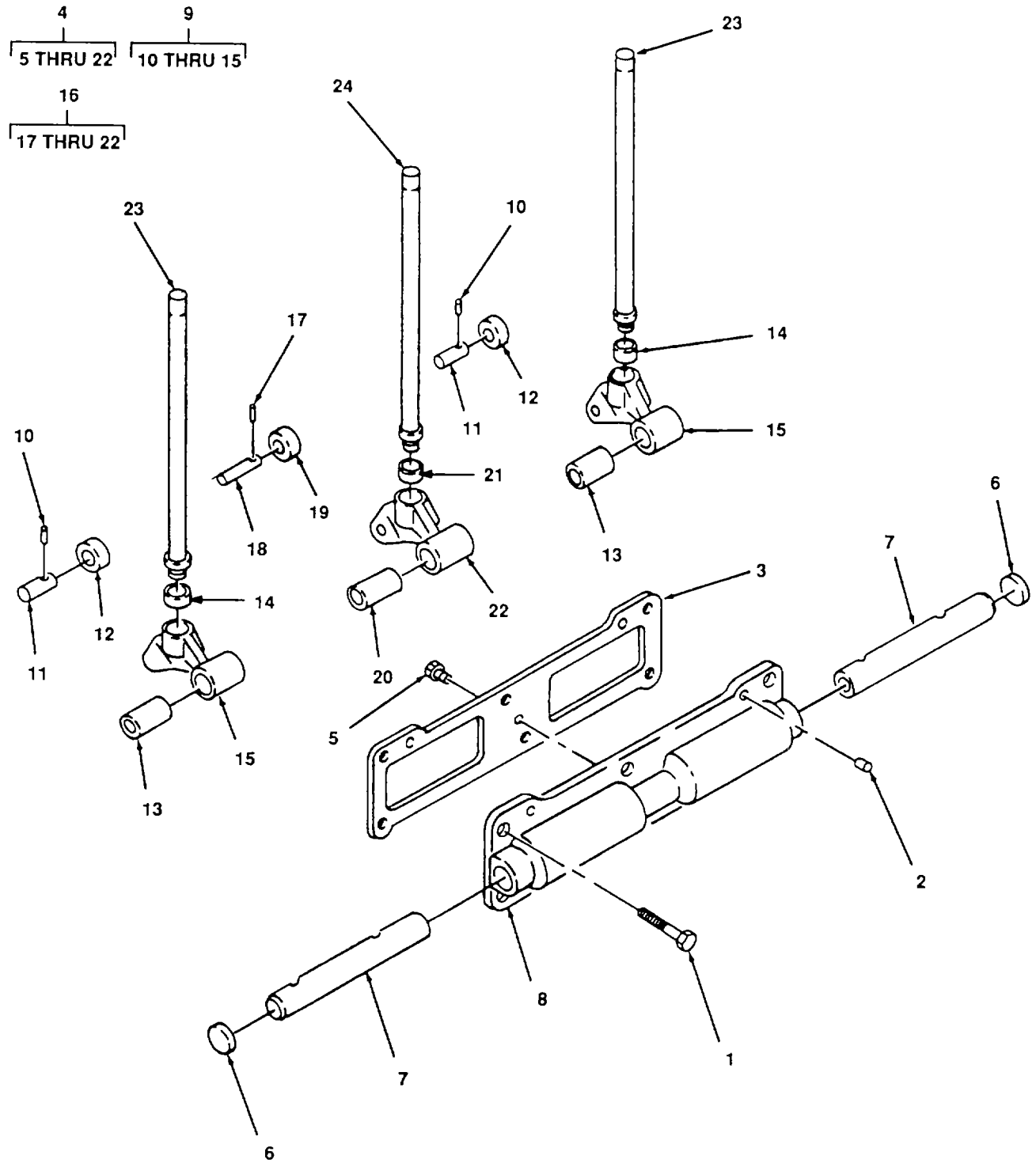


Figure 123. Push Rods and Cam Followers

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 123 PUSH RODS AND CAM FOLLOWERS	
1	15434	S-129	CAPSCREW	18
2	15434	68585	DOWEL	6
3	15434	3020000	GASKET, CAM FOLLOWER 017 THICK	3
3	15434	3020002	GASKET, CAM FOLLOWER 019 THICK	3
3	15434	3020003	GASKET, CAM FOLLOWER 022 THICK	3
4	15434	3036939	HOUSING AND FOLLOWER ASSEMBLY	3
5	15434	69736	SCREW, SHAFT	6
6	15434	146261	PLUG, EXPANSION	6
7	15434	3017031	SHAFT, CAM FOLLOWER	6
8	15434	3016887	HOUSING	3
9	15434	3036935	CAM FOLLOWER ASSEMBLY, INTAKE AND EXHAUST	12
10	15434	118939	PIN, ROLL	12
11	15434	3013331	PIN, ROLLER	12
12	15434	3036933	ROLLER	12
13	15434	118378	BUSHING	12
14	15434	213559	INSERT	12
15	15434	3014585	CAM FOLLOWER	12
16	15434	3036937	CAM FOLLOWER ASSEMBLY, INSPECTION	6
17	15434	118939	PIN, ROLL	3
18	15434	3013330	PIN, ROLLER	3
19	15434	3036933	ROLLER	3
20	15434	118377	BUSHING	3
21	15434	213559	INSERT	3
22	15434	3017032	CAM FOLLWER	3
23	15434	21729	PUSH ROD, INTAKE AND EXHAUST	12
24	15434	3032681	PUSH ROD, INJECTOR	6
			END OF FIGURE	

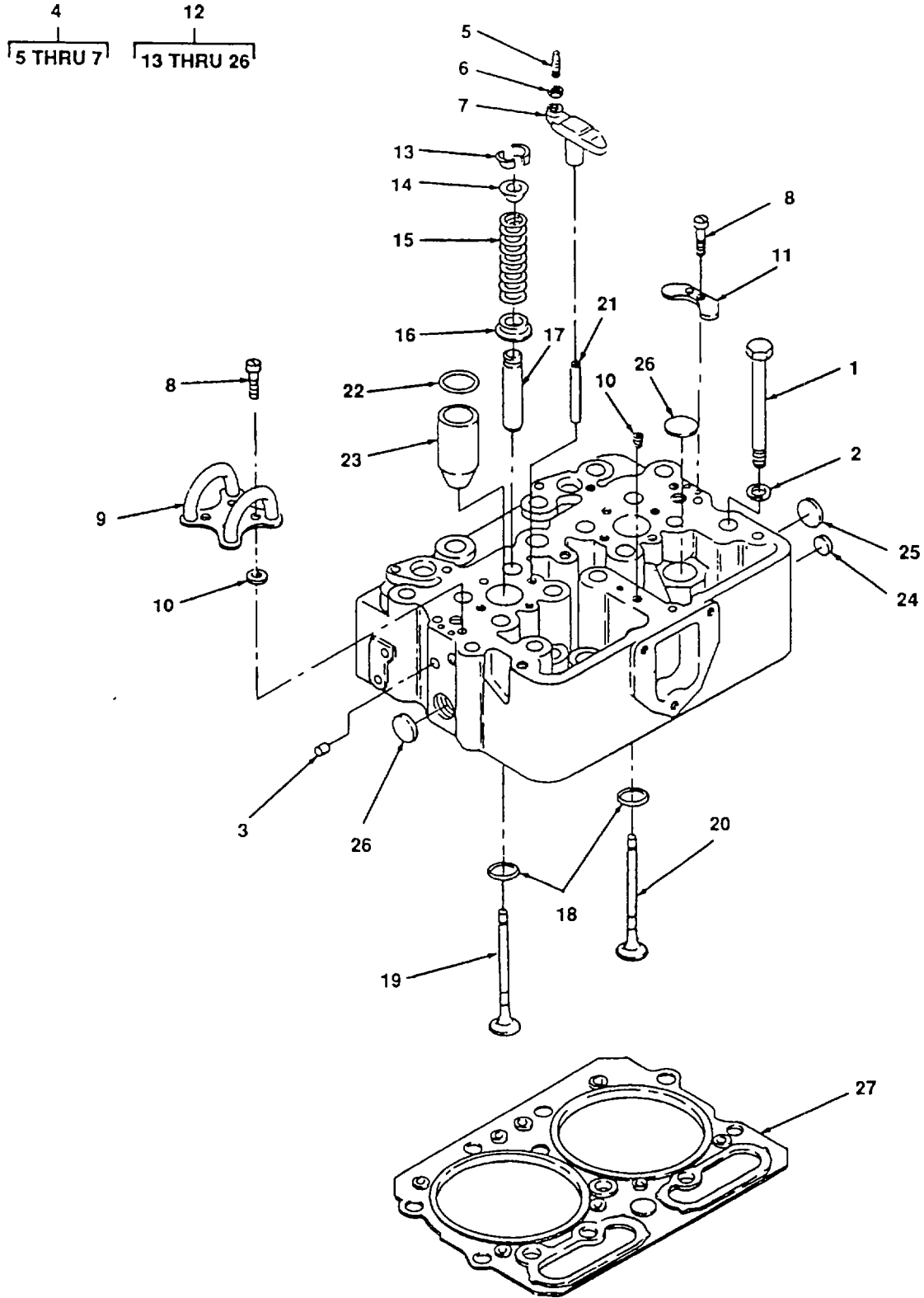


Figure 124. Cylinder Head Assembly

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 124 CYLINDER HEAD AND VALVES	
1	15434	3013623	SCREW, CAP, HEX	36
2	15434	69699	WASHER, FLAT	36
3	15434	- S-911 -B	PLUG, PIPE	10
4	15434	3030038	CROSSHEAD	12
5	15434	147389	SCREW	4
6	15434	203131	NUT, HEX	4
7	15434	3028293	CROSSHEAD, VALVE	4
8	15434	70772	SCREW, CAP, SPRING TITE	18
9	15434	147100	CROSSOVER, FUEL	2
10	15434	131026	SEAL, O-RING	12
11	15434	135308	PLATE, COVER	2
12	15434	3008101	HEAD ASSEMBLY, CYLINDER	3
13	15434	127554	COLLET, VALVE	4
14	15434	170296	GUIDE, VALVE SPRING	24
15	15434	211999	SPRING, VALVE	24
16	15434	172034	GUIDE, SPRING VALVE	24
17	15434	3006456	GUIDE, VALVE STEM	24
18	15434	3017759	INSERT, VALVE	24
19	15434	3000926	VALVE, INTAKE	12
20	15434	3029333	VALVE, EXHAUST	12
21	15434	123558	GUIDE, VALVE CROSSHEAD	12
22	15434	3007759	SEAL, O-RING	6
23	15434	3011934	SLEEVE, INJECTOR	6
24	15434	213394	PLUG, EXPANSION	18
25	15434	216524	PLUG, EXPANSION	3
26	15434	213395	PLUG, EXPANSION	6
27	15434	3036126	GASKET, CYLINDER HEAD	3
			END OF FIGURE	

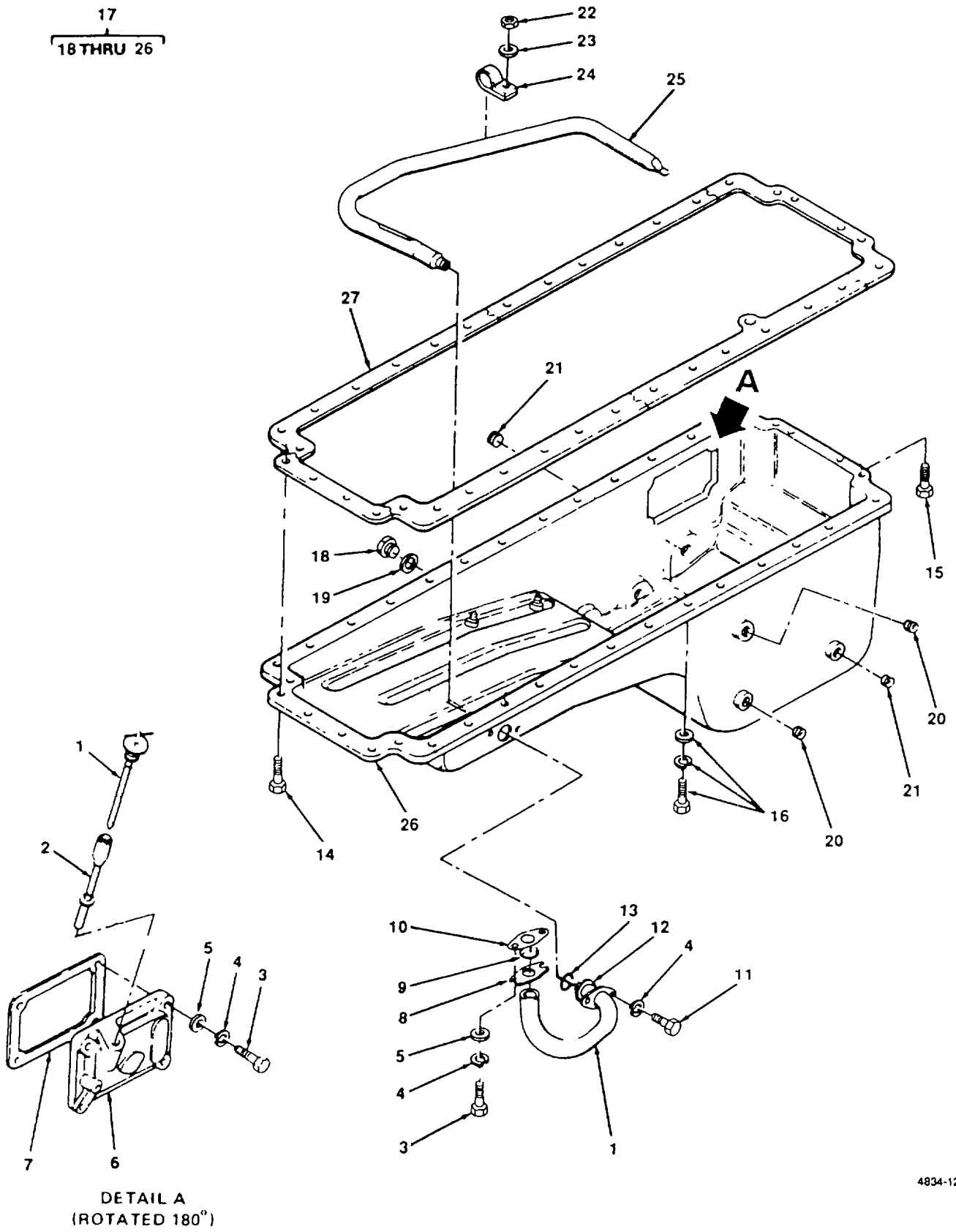


Figure 125. Oil Pan



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 125 OIL PAN	
1	15434	199445	DIPSTICK	1
2	15434	101814	TUBE, OIL GAGE	1
3	15434	3010595	SCREW, CAP, 3/8-16 X 1 1/4 IN	6
4	15434	S-604	WASHER, LOCK, 3/8	8
5	15434	S-602	WASHER, FLAT, 3/8	6
6	15434	BR60323	COVER, HAND HOLE	1
7	15434	65274	GASKET, HAND HOLE	1
8	15434	3037830	RETAINER, SEAL	1
9	15434	3034986	SEAL, RECTANGULAR	1
10	15434	157551	GASKET, SUCTION FLANGE	1
11	15434	3035624	SCREW, HEX, 3/8-16 X 1 IN	2
12	15434	3029850	PLATE, CLAMPING	1
13	15434	3029847	O-RING SEAL	1
14	15434	S-186	SCREW, CAP, 7/16-14 X 1 3/4 IN	4
15	15434	S-605	SCREW, CAP, 5/16-24 X 1 1/4 IN	4
16	15434	3032674	SCREW, CAP, CAPTIVE, 7/16-20 X 1 3/8	28
17	15434	3031959	OIL PAN ASSEMBLY	1
18	15434	69962	PLUG, 1 IN	1
19	15434	67946	WASHER, FLAT, 11/32 IN	1
20	15434	3008468	PLUG, PIPE, 1/2 IN	2
21	15434	3008470	PLUG, PIPE, 2 IN	2
22	15434	39832	NUT, HEX, 5/16-18	3
23	15434	S-626	WASHER, FLAT, 11/32 IN	3
24	15434	3032708	CLIP	3
25	15434	3032707	TUBE, OIL SUCTION	1
26	15434	3030257	PAN, OIL	1
27	15434	3032861	GASKET, OIL PAN	1
			END OF FIGURE	

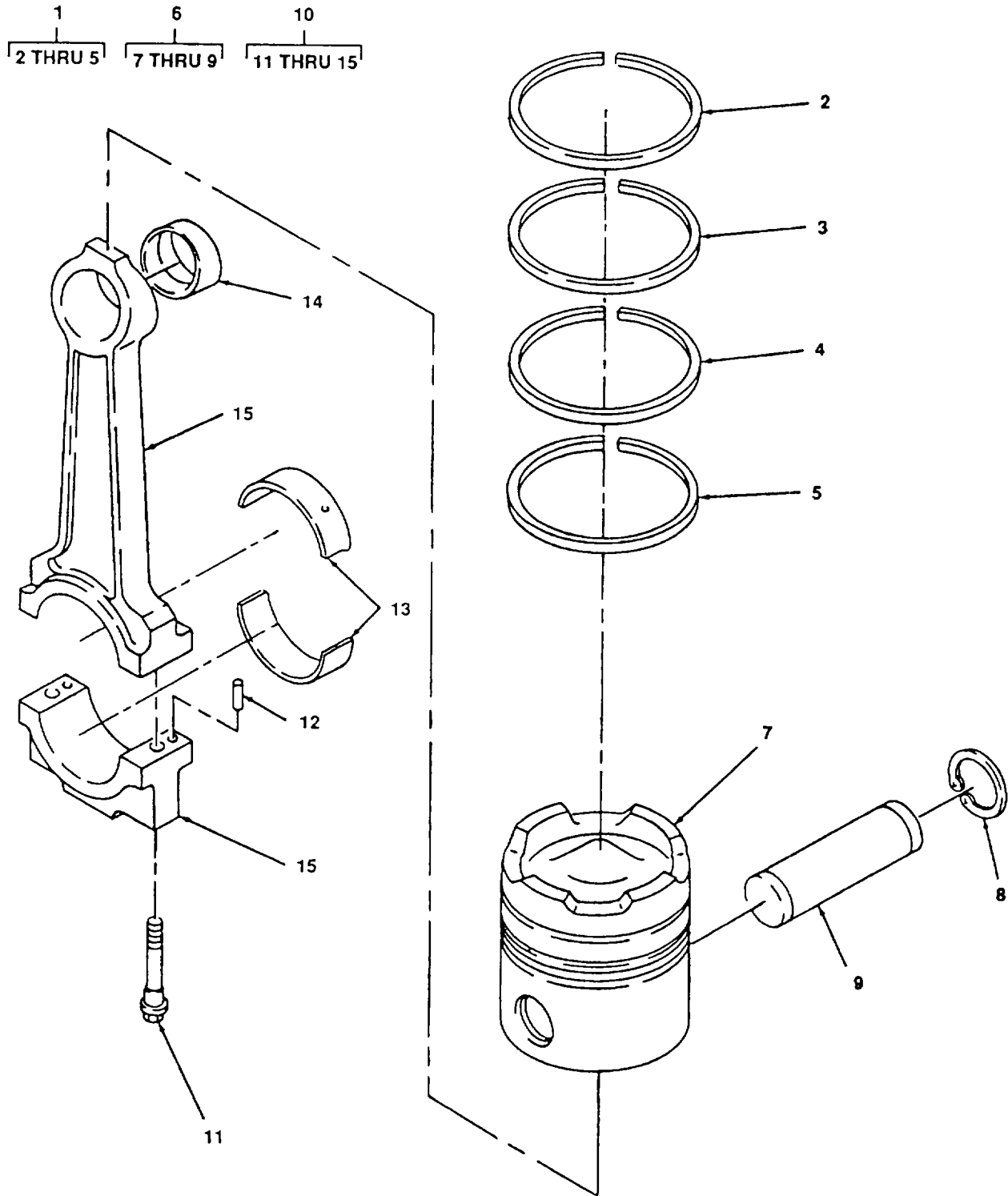


Figure 126. Pistons and Connecting Rod.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG.. 126 PISTON AND CONNECTING ROD	
1	15434	3801056	RING SET, PISTON	6
2	15434	218025	RING, COMP	1
3	15434	3012332	RING, COMP	1
4	15434	214730	RING, COMP	1
5	15434	218732	RING, OIL	1
6	15434	3032391	PISTON ASSEMBLY	6
7	15434	175755	RING, SNAP	2
8	15434	191970	PIN, PISTON	1
9	15434	3031140	PISTON	1
10	15434	3013930	CONNECTING ROD ASSEMBLY	6
11	15434	219153	BOLT, CONNECTING ROD	2
12	15434	70550	DOWEL	2
13	15434	414950	SHELL, CONNECTING ROD BEARING, 000 IN, .020 IN., 030 IN, 040 IN	2
14	15434	187420	BUSHING, PISTON PIN	1
15	15434	218808	CONNECTING ROD	1
			END OF FIGURE	

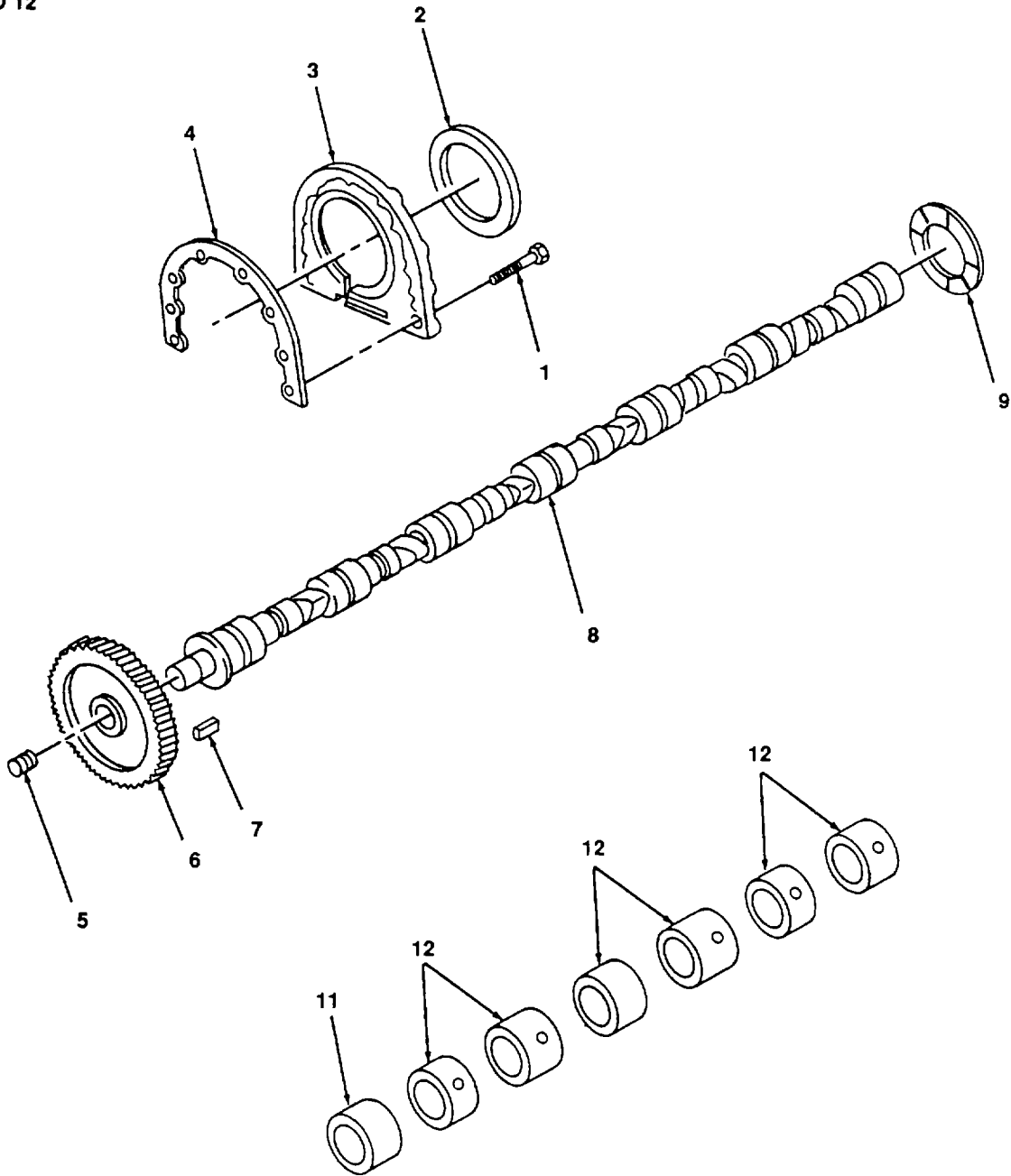
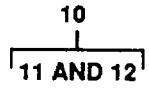


Figure 127. Camshaft.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 127 CAMSHAFT	
1	15434	3090594	SCREW, CAPTIVE	8
2	15434	211253	SEAL, REAR OIL	1
3	15434	209919	COVER, REAR	1
4	15434	40662-A	GASKET, REAR COVER	1
5	15434	68193	PLUG, PIPE	1
6	15434	3002901	GEAR, CAMSHAFT	1
7	15434	3021592	KEY, WOODRUFF	1
8	15434	3026975	CAMSHAFT	1
9	15434	215233	BEARING, THRUST	1
10	15434	BM-27253	CAMSHAFT, BUSHING ASSEMBLY	1
11	15434	100670	BUSHING	1
12	15434	157870	BUSHING	6
			END OF FIGURE	

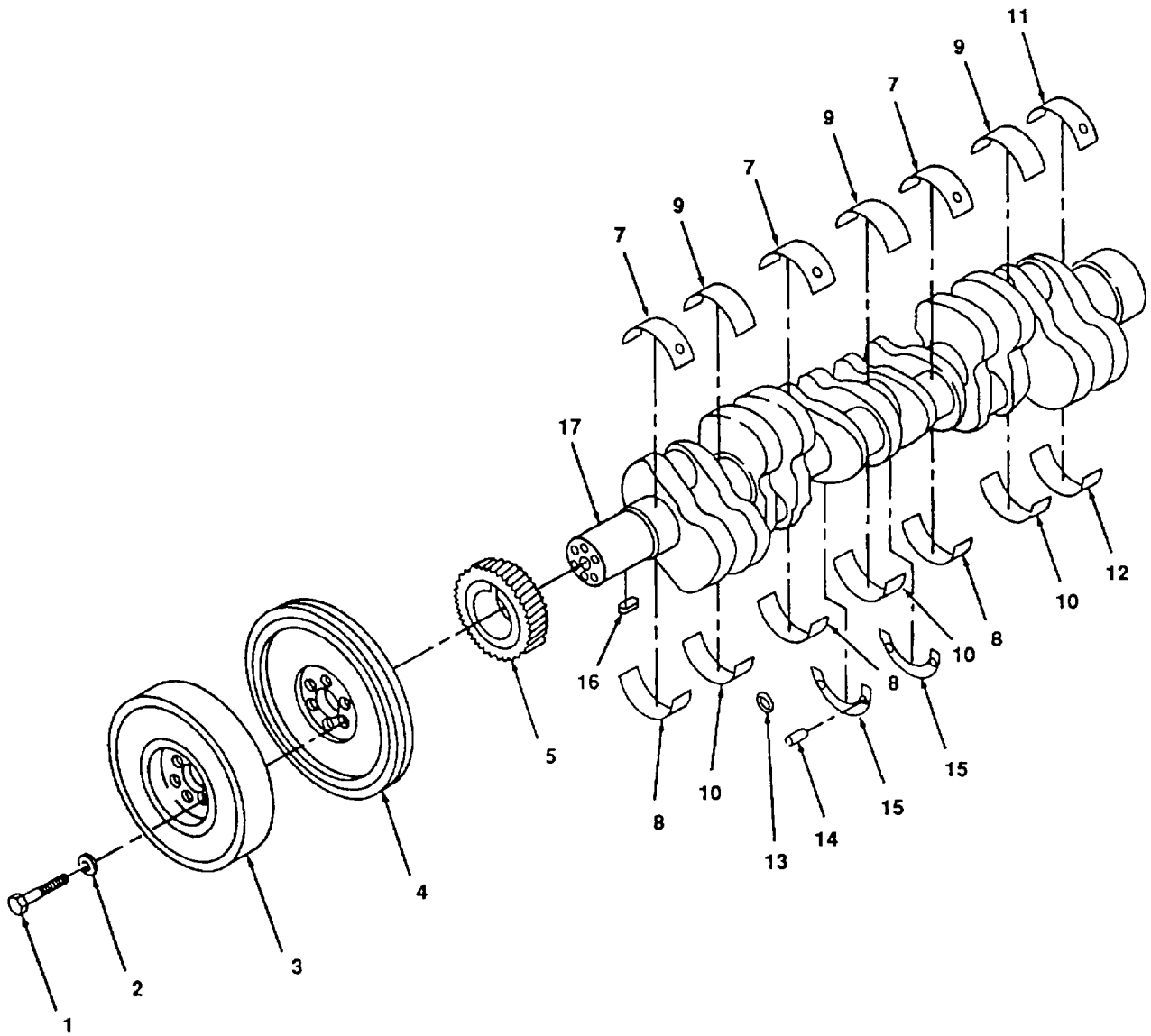
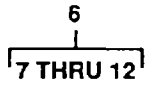


Figure 128. Crankshaft.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 128 CRANKSHAFT	
1	15434	213883	SCREW, CAP	6
2	15434	204165	WASHER, FLAT	6
3	15434	217323	DAMPER, VIBRATION	1
4	15434	211918	PULLEY, CRANKCASE	1
5	15434	3014614	GEAR	1
6	15434	3801260	SHELL, MAIN BEARING	1
7	15434	3019174	BEARING, MAIN (UPPER 1, 3, 5)	3
8	15434	3019180	BEARING, MAIN (LOWER 1, 3, 5)*	3
9	15434	3019186	BEARING, MAIN (UPPER 2, 4, 6)*	3
10	15434	3019192	BEARING, MAIN (LOWER 2, 4, 6)*	3
11	15434	3019198	BEARING, MAIN (UPPER 7)*	1
12	15434	3019204	BEARING, MAIN (LOWER 7)*	1
13	15434	60575	RING, MAIN BEARING	7
14	15434	202903	PIN, THRUST BEARING	8
15	15434	3019218	BEARING, THRUST	4
			*AVAILABLE IN 010", 020", 030", 040" UNDERSIZE	
16	15434	210179	KEY, WOODRUFF	1
17	15434	3024923	CRANKSHAFT	1
			END OF FIGURE	

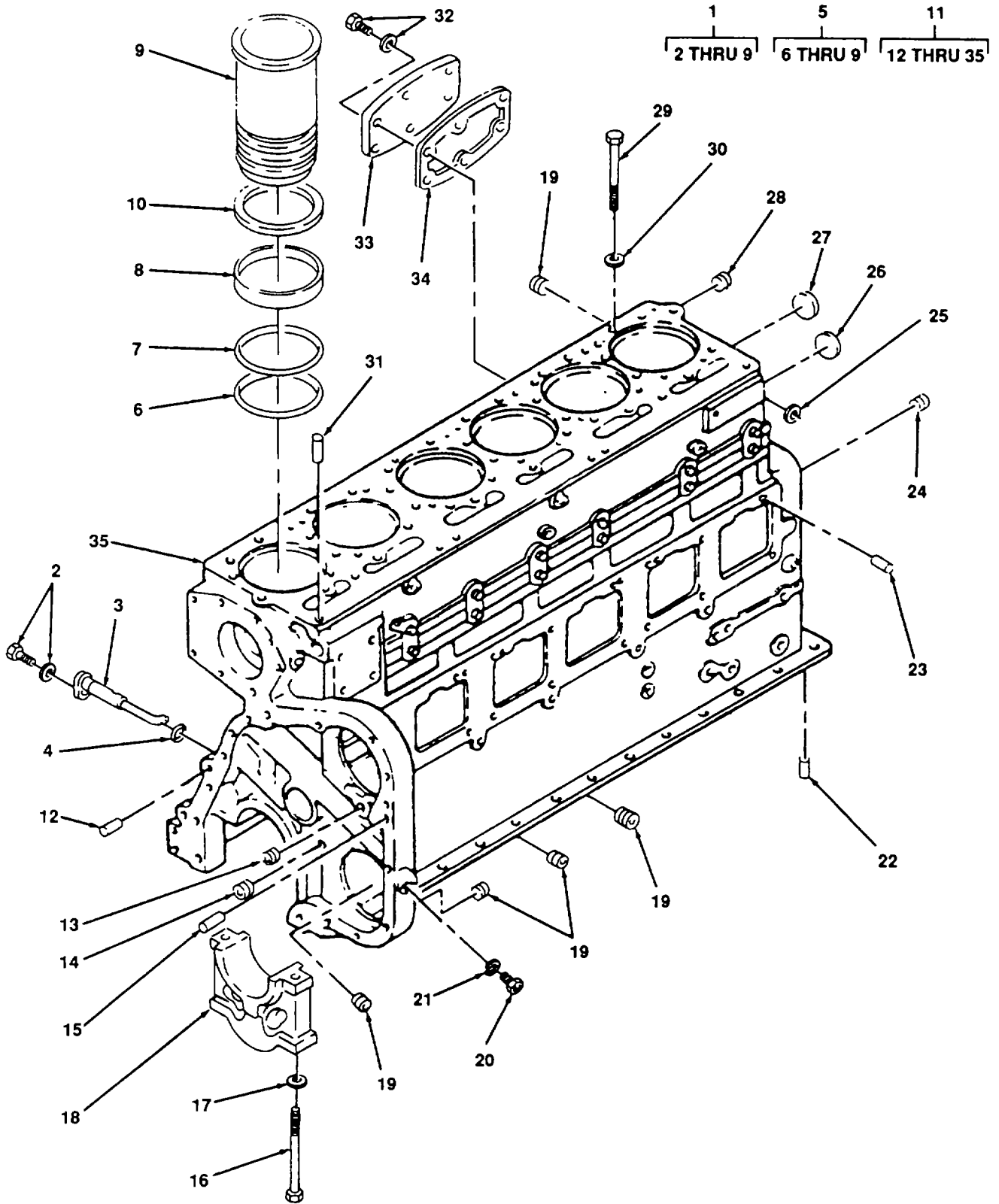


Figure 129. Cylinder Block.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 18 ENGINE GROUP, DIESEL	
			FIG. 129 CYLINDER BLOCK	
1	15434	3014404	PISTON, COOLING NOZZLE ASSEMBLY	6
2	15434	3033822	SCREW, CAP, CAPTIVE	1
3	15434	3013591	NOZZLE, PISTON COOLING	1
4	15434	3007442	SEAL, O-RING	1
5	15434	AR11317	CYLINDER LINER KIT	6
6	15434	183049	SEAL, DRIVE	1
7	15434	3008998	SEAL, O-RING	1
8	15434	215090	SEAL, CREVICE	1
9	15434	213740	LINER, CYLINDER	1
10	15434	3019955	SHIM, LINER 0 007" (REPAIR ONLY)	A/R
10	15434	3019956	SHIM, LINER 0 008" (REPAIR ONLY)	A/R
10	15434	3019957	SHIM, LINER 0 009" (REPAIR ONLY)	AIR
10	15434	3019958	SHIM, LINER 0 020" (REPAIR ONLY)	A/R
10	15434	3019959	SHIM, LINER 0 31" (REPAIR ONLY)	A/R
10	15434	3019960	SHIM, LINER 0 62" (REPAIR ONLY)	A/R
11	15434	38011331	CYLINDER BLOCK ASSEMBLY	1
12	15434	60408	DOWEL	1
13	15434	S-911-B	PLUG, PIPE, 1/8 IN	2
14	15434	3013786	PLUG, PIPE, 3/8 IN	5
15	15434	70653	DOWEL	1
16	15434	208346	SCREW, CAP, HEX	14
17	15434	140218	WASHER, FLAT	14
18	15434	3008047	CAP, MAIN BEARING (NO 1, 3 AND 5)	3
18	15434	3008048	CAP, MAIN BEARING (NO. 2, 4 AND 6)	3
18	15434	3008049	CAP, MAIN BEARING (NO 7 ONLY)	1
19	15434	3008468	PLUG, PIPE, 1/2 IN.	5
20	15434	201884	PLUG, THREADED	1
21	15434	66292	WASHER, PLAIN	1
22	15434	67211	DOWL, REAR MAIN	2
23	15434	68585	DOWEL, PIN	6
24	15434	3008466	PLUG, PIPE, 1/4 IN	2
25	15434	S-679	WASHER, FLAT	1
26	15434	S-719	PLUG, EXPANSION	1
27	15434	3011952	PLUG, EXPANSION	1
28	15434	S-966-E	PLUG, PIPE, 1 IN	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 129 CYLINDER BLOCK (CONT)	
29	15434	3013623	SCREW, CAP, HEX	36
30	15434	209700	WASHER, FLAT	36
31	15434	3025888	PIN, GROOVED	6
32	15434	3013904	SCREW, CAP, CAPTIVE	6
33	15434	132019	COVER, WATER HEAD	1
34	15434	70089-1	GASKET, COVER	1
35	15434	3031150	BLOCK, CYLINDER	1
			END OF FIGURE	

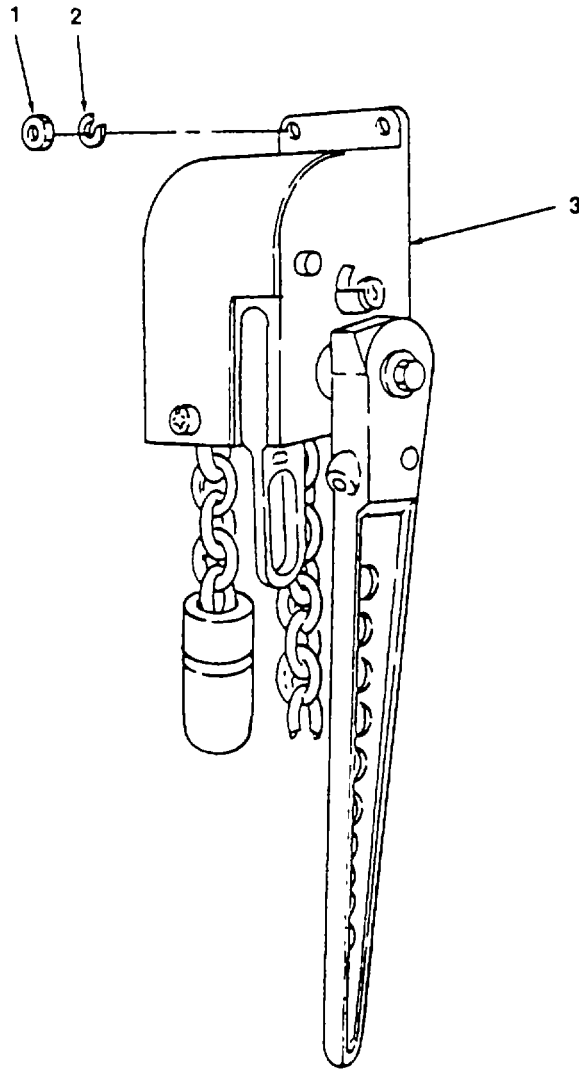


Figure 130. Handrake

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2 3	96906 96906 76622	MS51967-21 MS35338-50 800-RG	GROUP 19 BRAKE SYSTEM, AIR  FIG.. 130 HANDBRAKE  NUT, 5/8 WASHER, LOCK, 5/8 BRAKE ASSY., HAND  END OF FIGURE	2 2 1

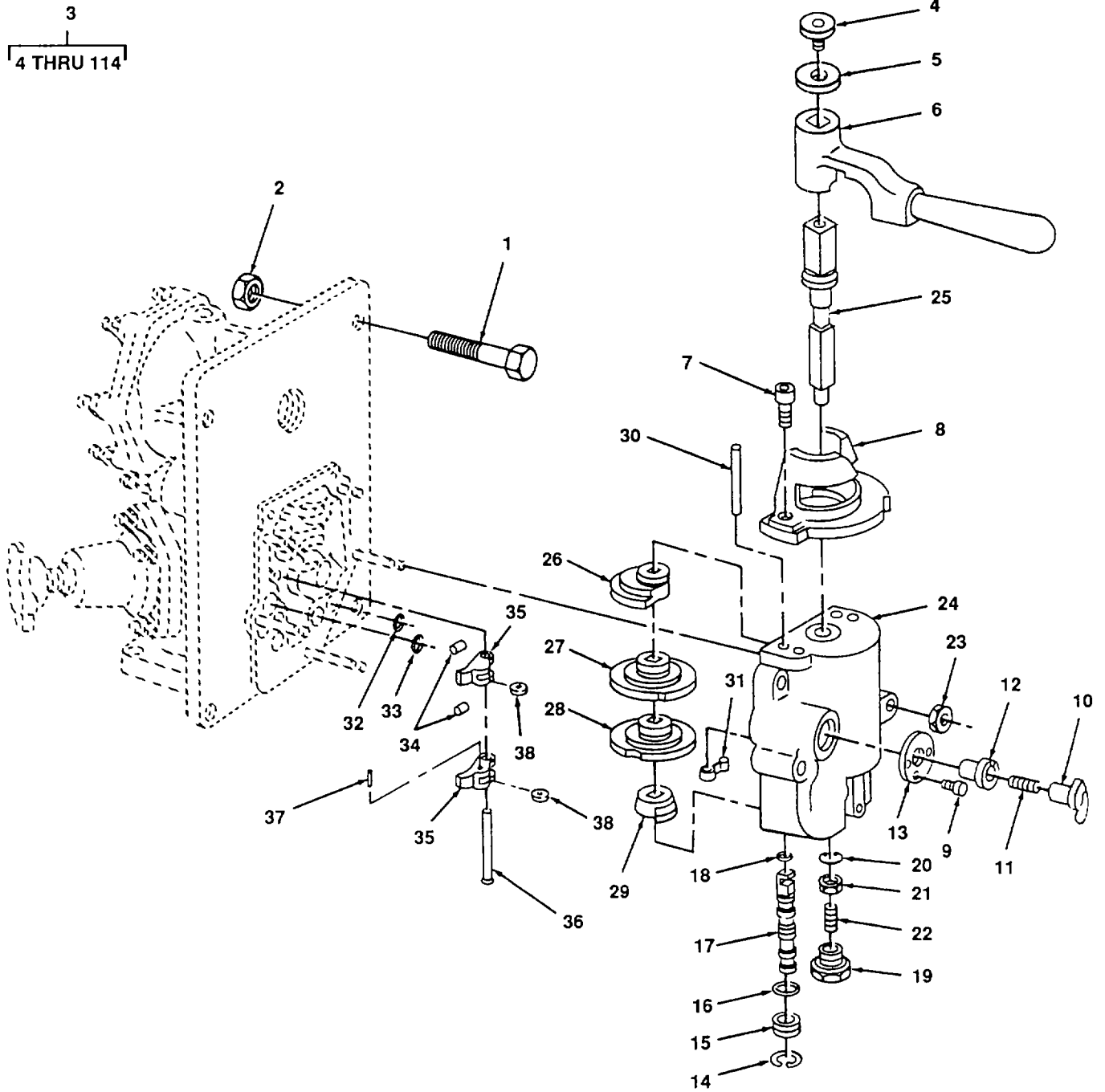
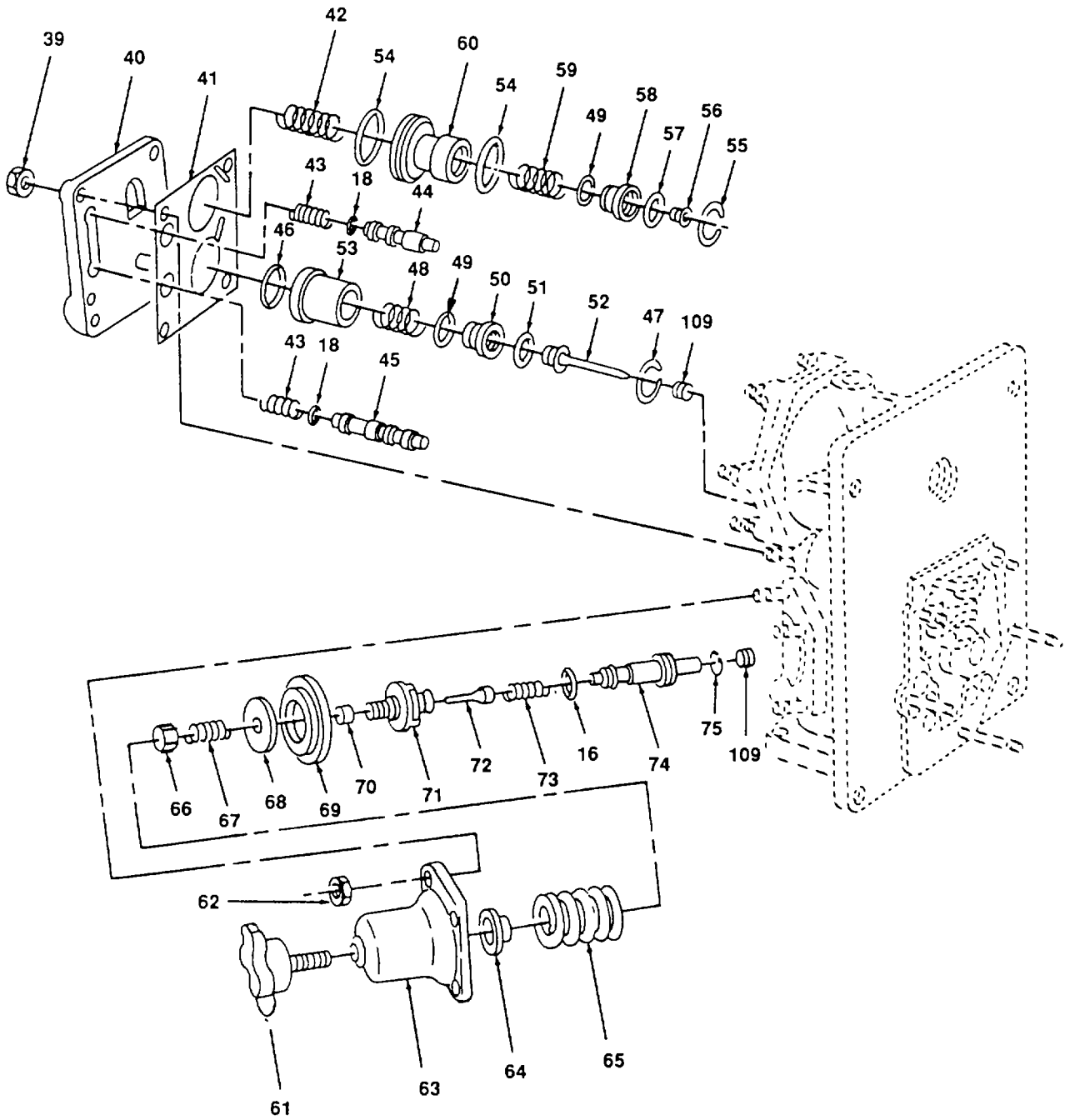


Figure 131. Valve, Automatic Brake (Sheet 1 of 3)



4834 131 2

Figure 131. Valve, Automatic Brake (Sheet 2 of 3)

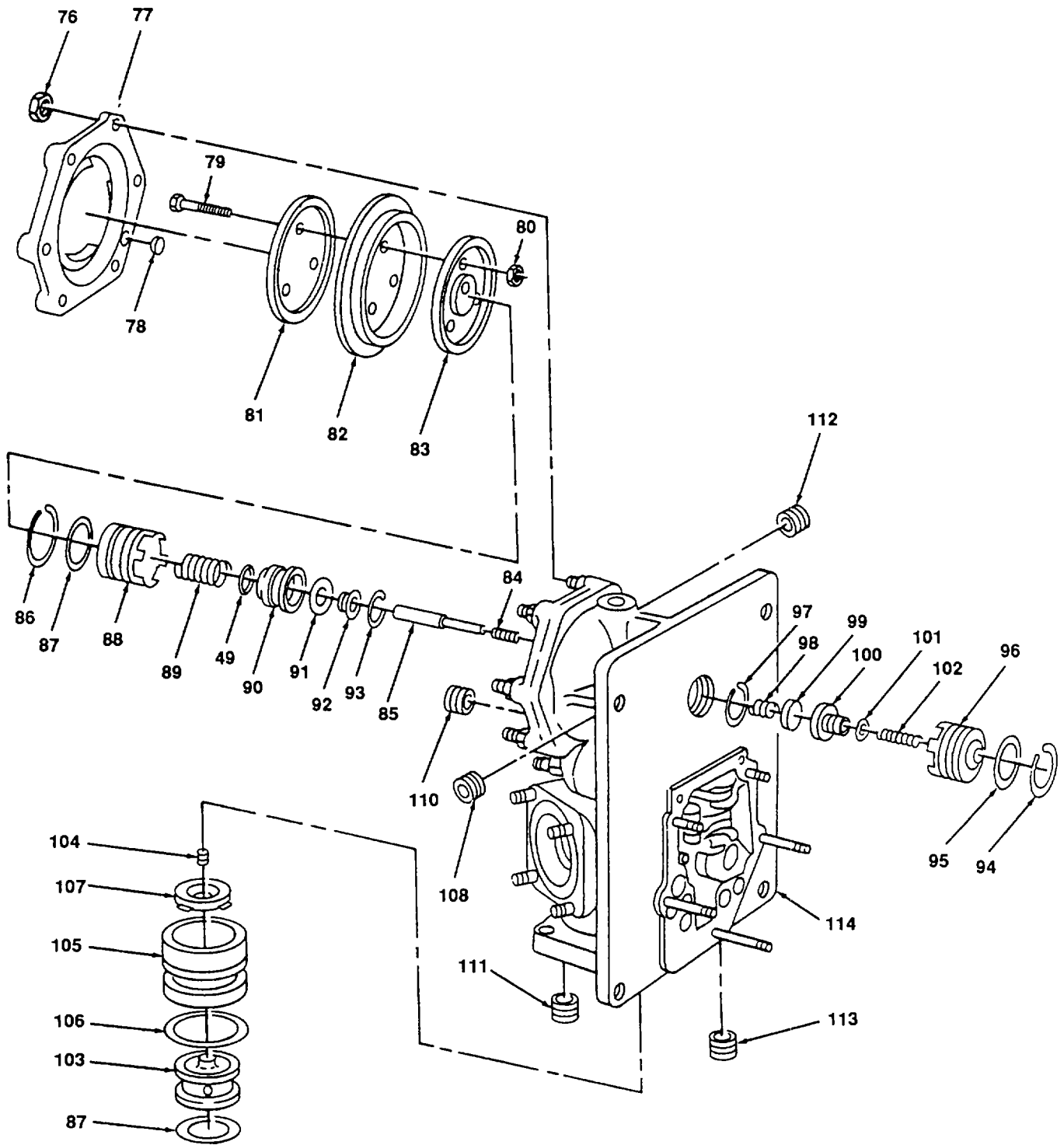


Figure 131. Valve, Automatic Brake (Sheet 3 of 3)

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 131 VALVE, AUTOMATIC BRAKE	
1	96906	MS90725	BOLT	4
2	96906	MS51922-23	NUT, LOCK	4
3	82722	562073	VALVE BRAKE, AUTOMATIC	1
4	82722	566156	SCREW, SOCKET-HEAD	1
5	82722	566155	WASHER, FLAT	1
6	82722	558495	HANDLE	1
7	82722	526640	SCREW, SOCKET-HEAD	2
8	82722	558476	QUADRANT	1
9	82722	64910	SCREW	3
10	82722	562075	VALVE, CUTOFF CONTROL KNOB	1
11	82722	570625	SPRING	1
12	82722	562074	VALVE, CUTOFF PILOT OPERATING SHAFT	1
13	82722	561715	PLATE, INSIGNIA	1
14	82722	526445	RING, RETAINING	1
15	82722	558462	PLUG	1
16	82722	524935	O-RING	4
17	82722	561717	VALVE, CUTOFF	1
18	82722	524612	O-RING	4
19	82722	558459	CAPNUT, SPILLOVER CHECK VALVE	1
20	82722	558460	RING, RETAINING	2
21	82722	529009	VALVE, CHECK	2
22	82722	562336	SPRING	2
23	82722	96500	NUT	5
24	82722	558483	CAM, HOUSING	1
25	82722	558474	SHAFT, CAM	1
26	82722	558473	VALVE, EMERGENCY CAM	1
27	82722	562090	VALVE, REGULATING CAM	1
28	82722	562089	VALVE, SUPPRESSION CAM	1
29	82722	55847n	VALVE, VENT CAM	1
30	82722	558468	PIN	1
31	82722	562303	DOG, CAM	1
32	82722	534527	O-RING	4
33	82722	534031	O-RING	1



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG 131 VALVE, AUTOMATIC BRAKE (CONT)	
34	82722	550673	PINS, CYLINDRICAL SPRING	2
35	82722	558467	DOGS, CAM	2
36	82722	558469	PIN, CAM	1
37	82722	559233	PIN	1
38	82722	567289	ROLLER, CAM DOG	2
39	82722		NUT	4
40	82722	558487	COVER	1
41	82722	557394	GASKET	1
42	82722	93070	VALVE, CUTOFF SPRING	1
43	82722	570511	VALVE, EMERGENCY SPRING	1
44	82722	558477	VALVE, EMERGENCY	1
45	82722	558479	VALVE, SUPPRESSION	1
46	82722	526388	O-RING	1
47	82722	536868	RETAINING RING	1
48	82722	562295	SPRING	1
49	82722	524614	O-RING	1
50	82722	558449	HOUSING	1
51	82722	557396	SEAL	1
52	82722	558484	RETAINER	1
53	82722	558482	VALVE, VENT CAGE	1
54	82722	526388	O-RING	1
55	82722	536868	RETAINING RING	1
56	82722	562300	RETAINER	1
57	82722	557396	SEAL	1
58	82722	558449	HOUSING	1
59	82722	562295	SPRING	1
60	82722	558485	VALVE, CUTOFF CAGE	1
62	82722		NUT	4
61	82722	558495	HANDLE	1
63	82722	562310	VALVE, REGULATING SPRING HOUSING	1
64	82722	566480	SEAT, SPRING	1
65	82722	562293	SPRING, ADJUSTING	1
66	82722	560415	VALVE, EXHAUST SPRING SEAT	1
67	82722	560410	SPRING	1
68	82722	562345	FOLLOWER	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG 131 VALVE, AUTOMATIC BRAKE (CONT)	
69	82722	562346	DIAPHRAGM	1
70	82722	560417	SEAT, SPRING	1
71	82722	560418	VALVE, SEAT EXHAUST	1
72	82722	560411	VALVE, INLET	1
73	82722	561135	SPRING	1
74	82722	560421	VALVE, REGULATING INLET	1
75	82722	534459	RETAINING RING	1
76	82722	96500	NUTS	6
77	82722	562317	COVER, VALVE	1
78	82722	527717	GASKET, 9/16 O D RING	1
79	82722	562299	SCREW, RETAINING	3
80	82722	17152	NUT	3
81	82722	559583	FOLLOWER, UPPER	1
82	82722	536300	DIAPHRAGM	1
83	82722	562313	FOLLOWER, LOWER	1
86	82722	540570	RETAINING RING	1
85	82722	554953	STEM, DIAPHRAGM	1
84	82722	562294	SPRING	1
87	82722	532282	O-RING	1
88	82722	562304	VALVE, EXHAUST CAGE	1
89	82722	562295	SPRING	1
90	82722	558449	HOUSING	1
91	82722	557396	VALVE, SEAL	1
92	82722	562300	RETAINER	1
93	82722	536868	RING, RETAINING	1
94	82722	558938	RING, RETAINING	1
95	82722	536239	O-RING	1
96	82722	554951	VALVE, SUPPLY CAGE	1
97	82722	850021	RING, RETAINING	1
98	82722	562301	RETAINER	1
99	82722	850047	SEAL	1
100	82722	554952	HOUSING	1
101	82722	532257	O-RING	1
102	82722	562292	SPRING, CAGE	1
103	82722	558491	VALVE, RESERVOIR CUTOFF PISTON	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG 131 VALVE, AUTOMATIC BRAKE (CONT)	
104	82722	562297	SPRING	1
105	82722	558490	VALVE, CUTOFF SEAT	1
106	82722	524715	O-RING	2
107	82722	551188	VALVE, CHECK	1
108	82722	523179	CHOKE, PLUGS	5
109	82722	523437	PLUG, HEX, 1/8 IN	2
110	82722	57585	PLUG, 3/8 CHOKE	1
111	82722	528323	PLUG, 3/8 CHOKE	1
112	82722	50716	PLUG, 3/8 CHOKE	1
113	82722	528324	PLUG, 3/8 CHOKE	1
114	82722	558440	VALVE, BRAKE BODY	1
			END OF FIGURE	

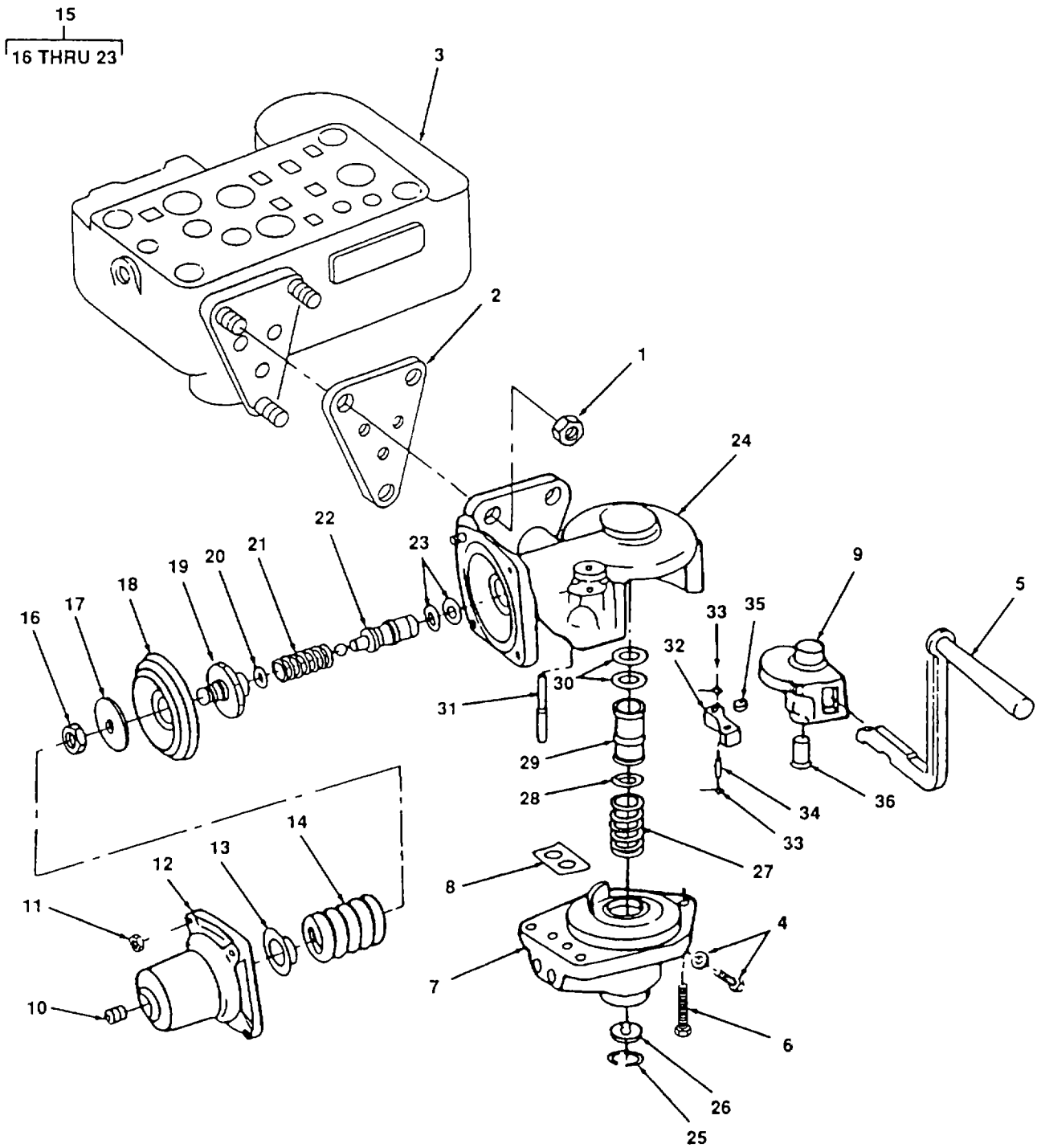


Figure 132. Valve Independent Brake.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 132 VALVE, INDEPENDENT BRAKE	
1	96906	2505	NUT	3
2	82722	557237	GASKET	1
3	82722	558492	BRACKET, PIPE	1
4	82722	575792	PIN ASSEMBLY	1
5	82722	572888	HANDLE ASSEMBLY	1
6	82722	7978	SCREW, HEX-HEAD	3
7	82722	558505	VALVE, QUICK-RELEASE BODY	1
8	82722	557236	GASKET	1
9	82722	559453	CAM	1
10	82722	536005	SCREW, ADJUSTING	1
11	82722	96500	NUT	4
12	82722	562337	HOUSING, SPRING	1
13	82722	566480	SEAT, SPRING	1
14	82722	562293	SPRING, REGULATING VALVE	1
15	82722	562350	SEAT, EXHAUST VALVE ASSEMBLY	1
16	82722	526489	NUT	1
17	82722	526345	FOLLOWER	1
18	82722	526346	DIAPHRAGM	1
19	82722	562307	VALVE, EXHAUST SEAT	1
20	82722	564056	O-RING	1
21	82722	561135	VALVE, EXHAUST SPRING	1
22	82722	564377	VALVE, INLET-EXHAUST	1
23	82722	531868	O-RING	2
24	82722	559262	VALVE BODY	1
25	82722	536904	RING, RETAINER	1
26	82722	559005	SPRING, SEAT	1
27	82722	559228	SPRING, QUICK-RELEASE	1
28	82722	524935	O-RING	1
29	82722	558508	VALVE, QUICK-RELEASE	1
30	82722	524614	O-RING	2
31	82722	558407	PIN, CAM DOG	1
32	82722	535756	CAM, DOG	1
33	82722	5735	PIN, COTTER	2
34	82722	535758	PIN, ROLLER	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
35 36	82722 82722	535757 558509	FIG 132 VALVE, INDEPENDENT BRAKE (CONT)  ROLLER VALVE, BRAKE PUSH PIN  END OF FIGURE	1 1

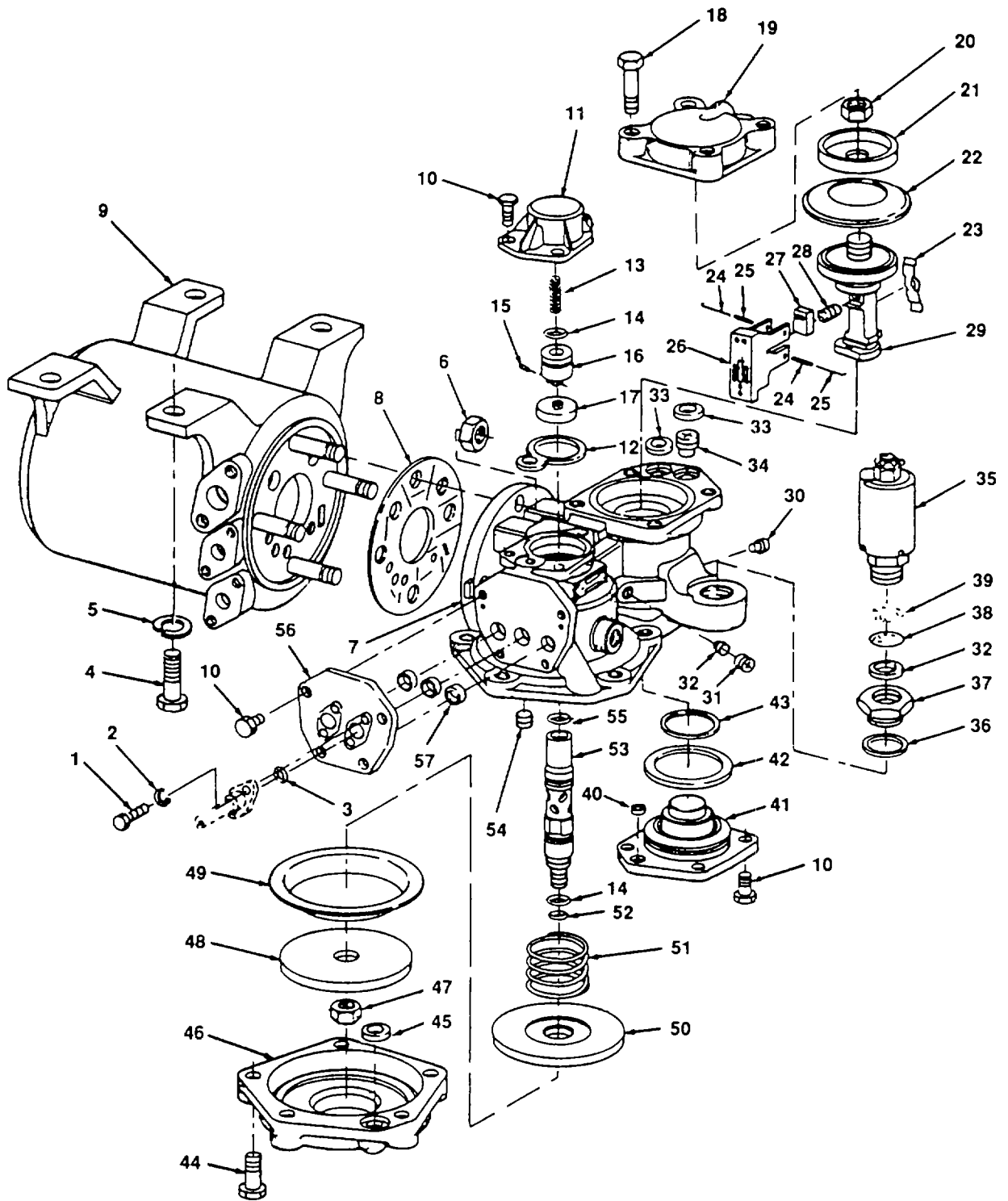


Figure 133. Valve, 6NFR Distributing

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 133 VALVE, 6NFR DISTRIBUTING AND SAFETY VALVE	
1	96906	MS90725-113	SCREW, HEX, 1/2 X 1 1/2 IN	4
2	96906	MS35338-48	WASHER, LOCK, 1/2 IN	4
3	82722	WR-146	SEAL, O-RING	2
4	96906	MS90725-163	SCREW, HEX, 5/8 X 1 3/4 IN	4
5	96906	MS35338-50	WASHER, LOCK, 5/8	4
6	96906	MS51967-21	NUT	4
7	82722	563144	VALVE, GND DISTRIBUTING	1
8	82722	58013	GASKET, RUBBER	1
9	82722	511752	TANK, RESERVOIR	1
10	82722	7978	SCREW, HEX-HEAD, 3/8 IN-16X 1 IN	11
11	82722	564689	COVER, TOP	1
12	82722	553823	GASKET, TOP COVER	1
13	82722	545053	SPRING, CARRIER	1
14	82722	527555	O-RING, 1 1/8 IN OD	3
15	82722	550419	PIN, SPRING	1
16	82722	564051	CARRIER, CHECK VALVE	1
17	82722	564050	VALVE, CHECK	1
18	82722	25428	SCREW, HEX-HEAD, 1/2 IN X 2 1/8 IN.	4
19	82722	562066	COVER, EQUALIZING PISTON	1
20	82722	502387	NUT	1
21	82722	552186	FOLLOWER, DIAPHRAGM	1
22	82722	564210	DIAPHRAGM	1
23	82722	93946	SPRING, SLIDE VALVE	1
24	82722	97379	PIN, SLIDE VALVE	2
25	82722	97378	LOCK, SLIDE VALVE	2
26	82722	562063	VALVE, SLIDE	1
27	82722	94851	VALVE, GRADUATING	1
28	82722	93940	SPRING, VALVE GRADUATING	1
29	82722	562065	PISTON, EQUALIZING	1
30	82722	515591	PLUG, 1/8 IN. CHOKE	1
31	82722	562061	PLUG, 1/4 IN SOCKET	1
32	82722	97286	PLUG	1
33	82722	95611	GASKET, 1IN OD RING	3
34	82722	536126	PLUG	1



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG 133 VALVE, NFR DISTRIBUTING AND SAFETY VALVE (CONT)	
35	82722	562060	VALVE, SAFETY	1
36	82722	524413	O-RING, 1 3/4 IN O D	1
37	82722	562071	ADAPTER	1
38	82722	518584	STRAINER, ADAPTER	1
39	82722	518585	SCREEN, ADAPTER	1
40	82722	99422	GASKET, 15/32 O D RING	1
41	82722	562067	COVER, BLANKING	1
42	82722	523745	O-RING, 33/4 IN O D	1
43	82722	559273	GASKET, 2 5/8 O D RING	1
44	82722	6272	SCREW, HEX-HEAD	5
45	82722	98796	GASKET	1
46	82722	562810	COVER, BOTTOM	1
47	82722	569171	NUT, LOCK, 3/4 IN	1
48	82722	556309	FOLLOWER, DIAPHRAGM	1
49	82722	564081	DIAPHRAGM	1
50	82722	556308	HEAD, PISTON	1
51	82722	556305	SPRING	1
52	82722	523734	O-RING, 7/8 IN	1
53	82722	556306	STEM, PISTION	1
54	82722	78758	PLUG	1
55	82722	511382	GASKET, 1 1/8 IN O-RING	1
56	82722	562064	COVER, BLANKING	1
57	82722	511382	GASKET, 1 7/37 IN O D RING	3
			END OF FIGURE	

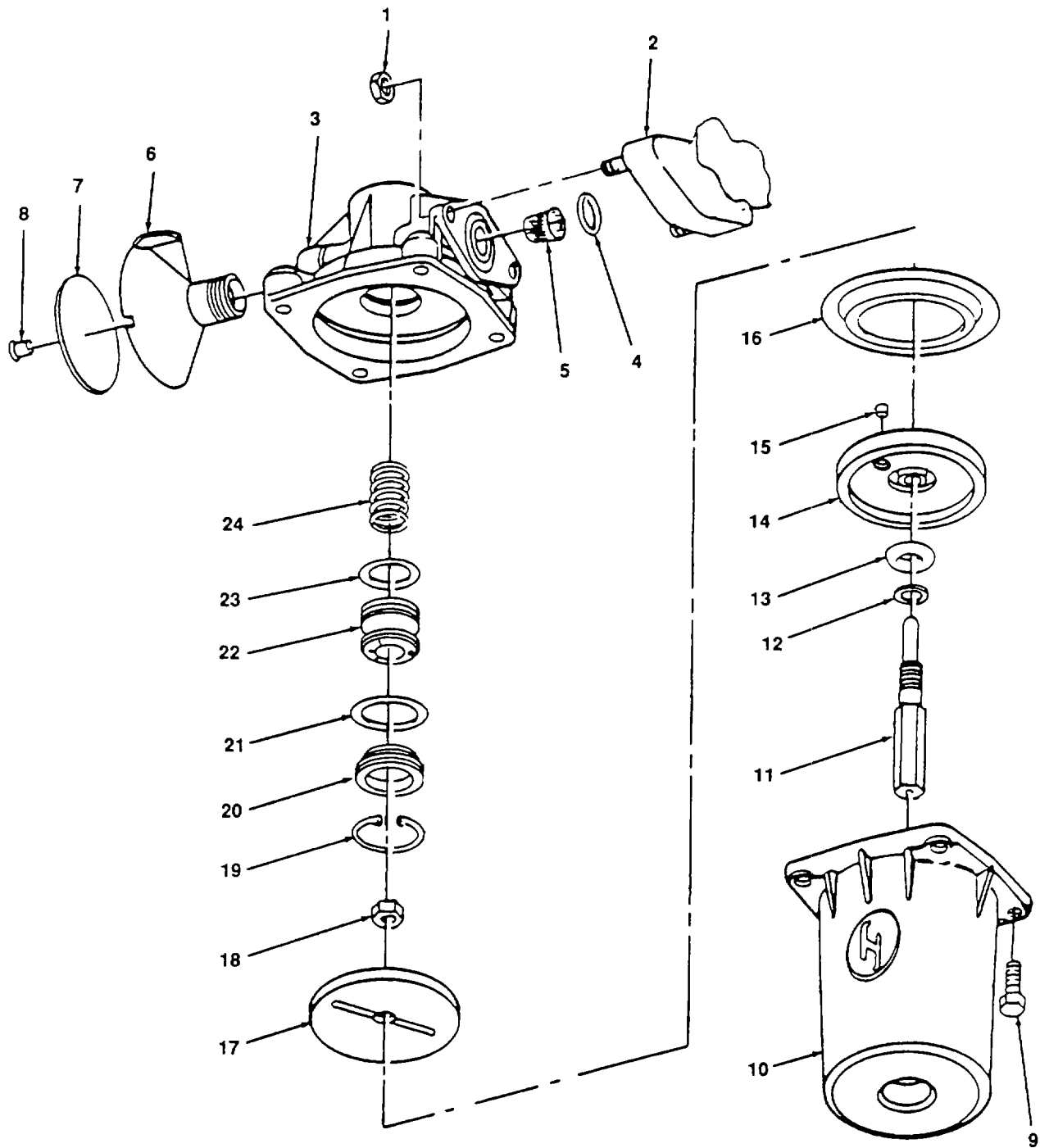


Figure 134. Valve, No. 8 Vent.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 134 VALVE, NO. 8 VENT	
1	96906	MS51967-15	NUT	2
2	82722	566404	BRACKET, PIPE	1
3	82722	5648-11	BODY	1
4	82722	93986	GASKET, 1 15/16 IN O D. RING	1
5	82722	568058	STRAINER	1
6	82722	757548	BODY, VENT PROTECTOR	1
7	82722	502465	SEAL	1
8	82722	571140	RIVET, POP	1
9	96906	7978	SCREW, 3/8-16 X1 IN, HEX HEAD	4
10	82722	564872	HOUSING, DIAPHRAGM	1
11	82722	567969	STEM, PISTON	1
12	82722	567971	WASHER	1
13	82722	564808	SEAL, BLOWDOWN CHOKE	1
14	82722	564807	PISTON	1
15	82722	506276	FELT	1
16	82722	564210	DIAPHRAGM	1
17	82722	564810	FOLLOWER, DIAPHRAGM	1
18	96906	568624	NUT, LOCKING, 1/2 IN.	1
19	82722	530121	RING, RETAINER	1
20	82722	564813	SEAT, EXHAUST VALVE	1
21	82722	524413	O-RING, 1 3/4 IN	1
22	82722	564814	VALVE, EXHAUST	1
23	82722	524794	O-RING	1
24	82722	564817	SPRING, EXHAUST VALVE	1
			END OF FIGURE	

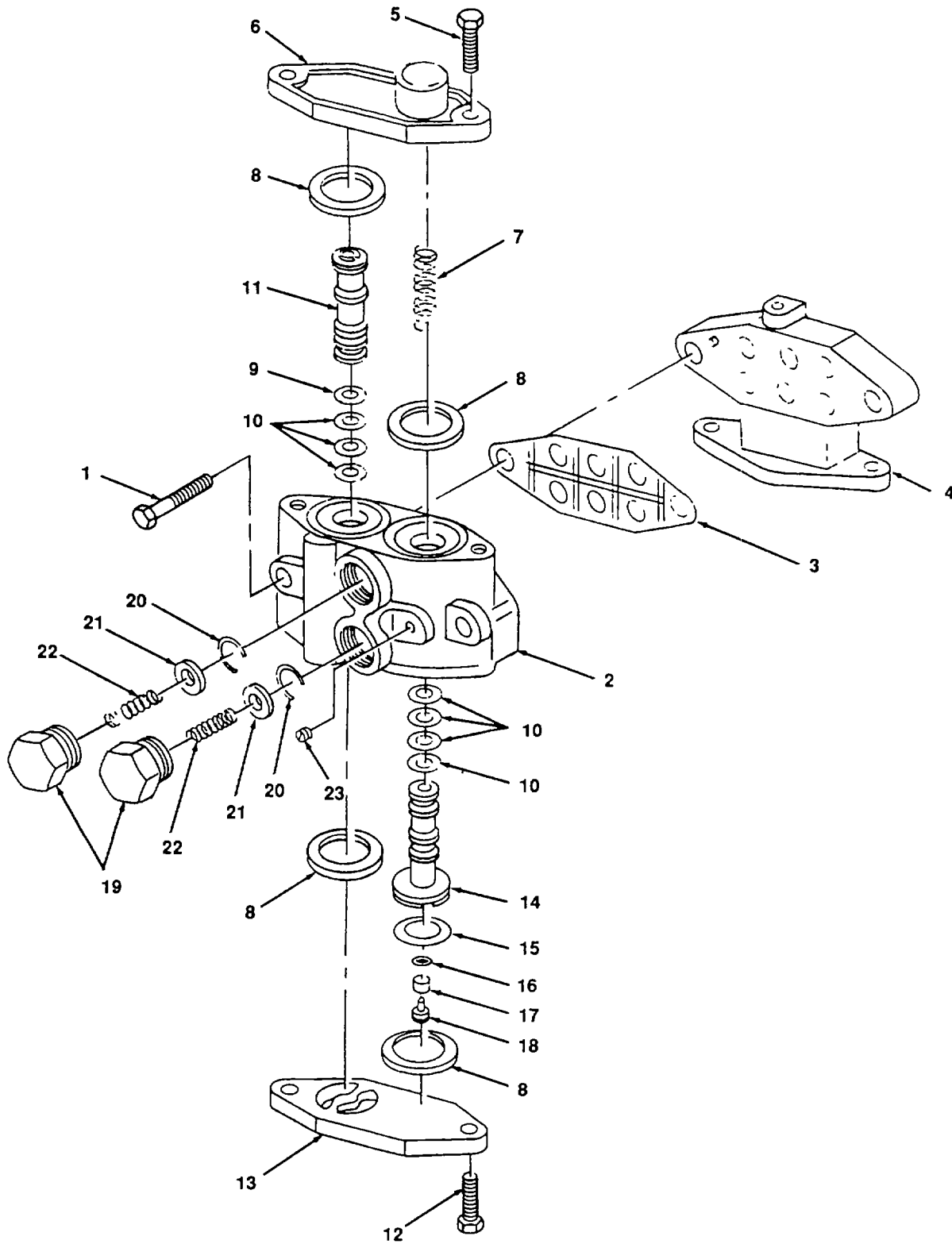


Figure 135. Valve, A-1 Charging Cutoff Pilot.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 135 VALVE, A-1 CHARGING CUTOFF PILOT	
1	96906	750598	BOLT, HEX-HEAD, 1/2 IN X3 IN	2
2	82722	562848	BODY	1
3	82722	562614	GASKET, PIPE BRACKET	1
4	82722	562860	BRACKET, PIPE	1
5	96906	11760	SCREW, HEX-HEAD, 1/2 IN X 1 3/8 IN	2
6	82722	562859	COVER, TOP	1
7	82722	578088	SPRING, ACTUATING PISTON	1
8	82722	533416	GASKET, 2 IN OD RING	4
9	82722	523734	O-RING, 7/8 IN O D	1
10	82722	531868	O-RING, 3/8 IN OD	8
11	82722	562857	PISTON, CUT-OFF	1
12	96906	523690	SCREW, HEX-HEAD, 1/2 IN X 1 1/4 IN	2
13	82722	562856	COVER, BOTTOM	1
14	82722	562854	PISTON, ACTUATING	1
15	82722	526388	O-RING, 1 3/8 IN O D	1
16	82722	525033	RETAINER, STRAINER	1
17	82722	525032	STRAINER, FELT	1
18	82722	552438	PLUG	1
19	82722	558459	NUT, CAP	2
20	82722	558462	RING, RETAINER CHECK VALVE	2
21	82722	529009	VALVE, CHECK	2
22	82722	562336	SPRING	2
23	82722	562867	PLUG, 1/8 CHOKE	1
			END OF FIGURE	

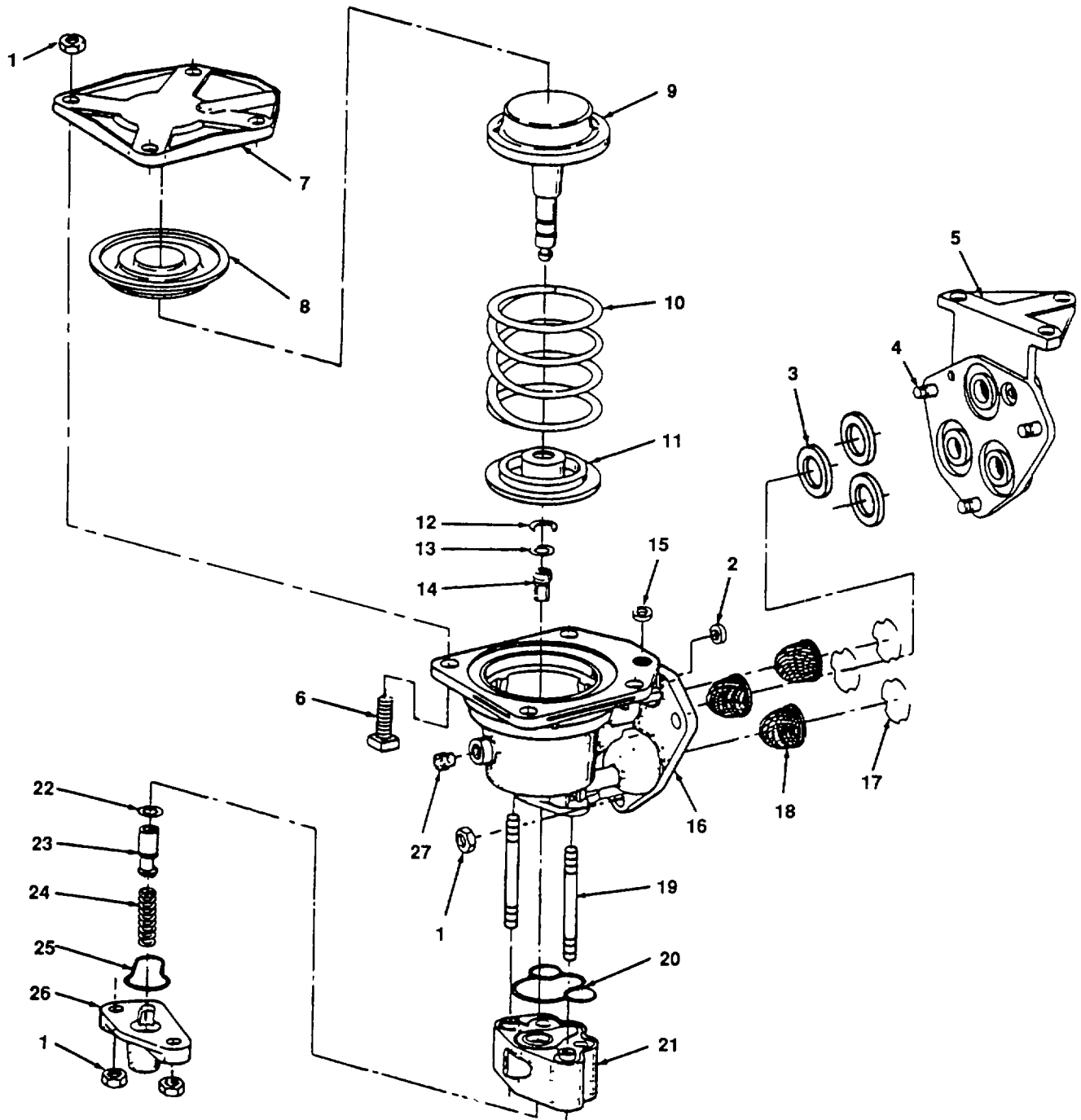


Figure 136. Valve, H-5 Relay Air.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 136 VALVE, H-5 AIR	
1	82722	1296	NUT, HEX-HEAD, 3/8 IN -16	9
2	82722	550992	GASKET, 3/4 IN OD RING	1
3	82722	93840	GASKET, 1 1/2 IN O D RING	3
4	82722	85475	STUD, 3/8 IN -16 X 1 1/4 IN	3
5	82722	527665	BRACKET, PIPE	1
6	82722	17063	BOLT, 3/8 IN -16 X 1 1/4 SQ HEAD	4
7	82722	527566	COVER, DIAPHRAGM	1
8	82722	522980	DIAPHRAGM	1
9	82722	527572	FOLLOWER, DIAPHRAGM	1
10	82722	525125	SPRING	1
11	82722	527573	SEAT, SPRING	1
12	82722	512612	RETAINER	1
13	82722	534662	O-RING, 3/8 O D	1
14	82722	527579	VALVE, EXHAUST	1
15	82722	523619	GASKET, 1/2 OD RING	5
16	82722	527587	BODY, VALVE	1
17	82722	529161	RING, STRAINER RETAINING	3
18	82722	527583	STRAINER	3
19	82722	531257	STUD	2
20	82722	527581	GASKET, CHECK VALVE BODY	1
21	82722	527575	BODY, CHECK VALVE	1
22	82722	524612	O-RING, 1/2 IN O D	1
23	82722	527578	VALVE, SUPPLY	1
24	82722	527588	SPRING, SUPPLY VALVE	1
25	82722	527582	GASKET, CHECK VALVE COVER	1
26	82722	527580	COVER, CHECK VALVE BODY	1
27	82722	97130	EXCLUDER, 1/4 IN WASP	1
			END OF FIGURE	

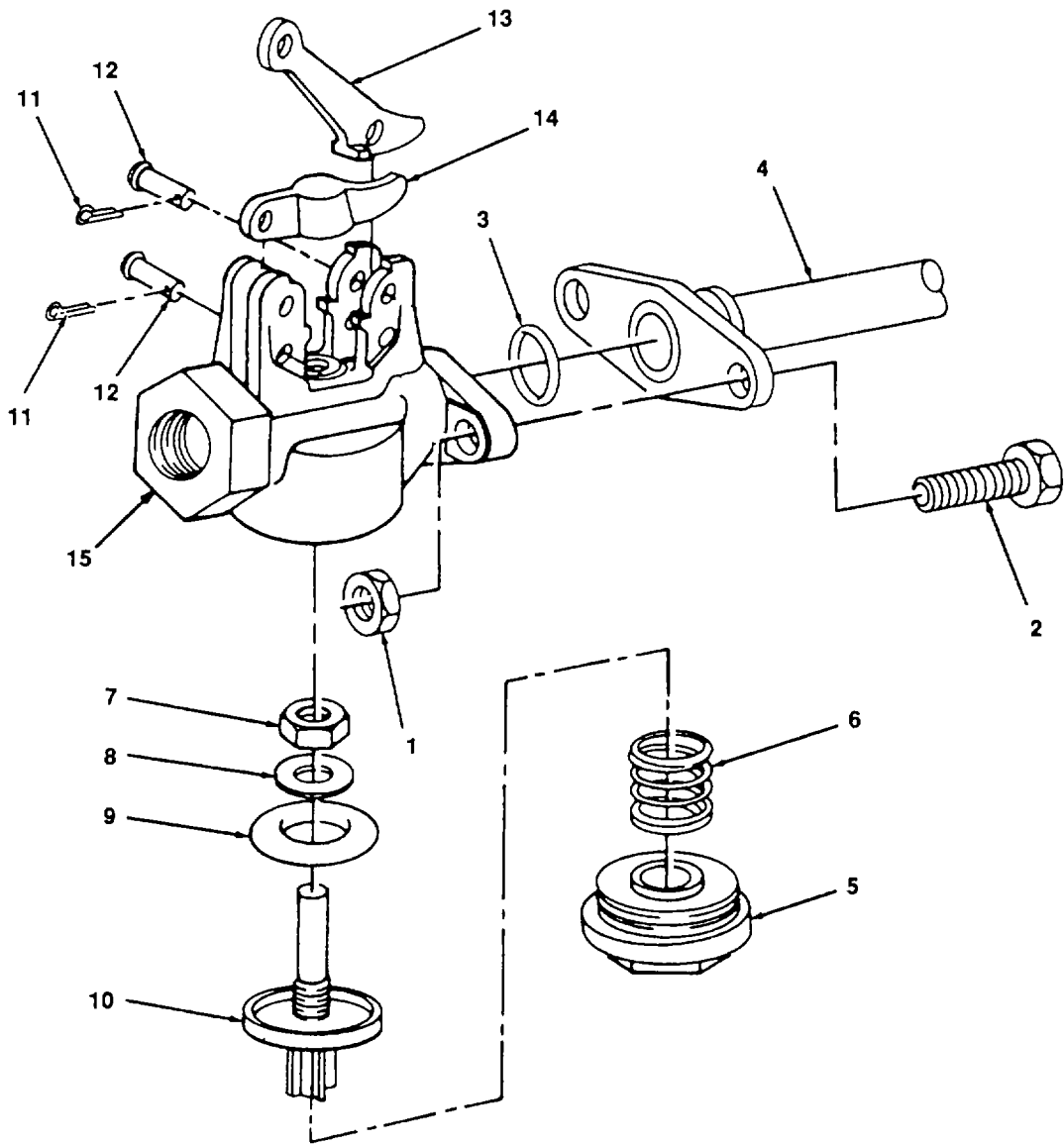


Figure 137. Valve, Emergency Brake.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 137 VALVE, EMERGENCY BRAKE	
1	96906	MS51922-33	NUT, LOCK, 3/8	2
2	96906	MS90725-58	BOLT	2
3	82722	GASK854N	GASKET	1
4	82722	565262	PIPE, FLANGE, 1 1/4	1
5	82722	535708	NUT, CAP	1
6	82722	7448	SPRING	1
7	82722	502365	NUT, 1/2 IN, HEX	1
8	82722	535707	WASHER, FLAT	1
9	82722	92273	SEAT, VALVE	1
10	82722	535706	VALVE	1
11	82722	4045	COTTER PIN, 3/32 X 1/2 IN	2
12	82722	535710	RIVET, 5/16 X 1 1/4 IN	2
13	82722	535709	LEVER, OPERATING	1
14	82722	13574	LEVER, VALVE	1
15	82722	535704	BODY	1
			END OF FIGURE	

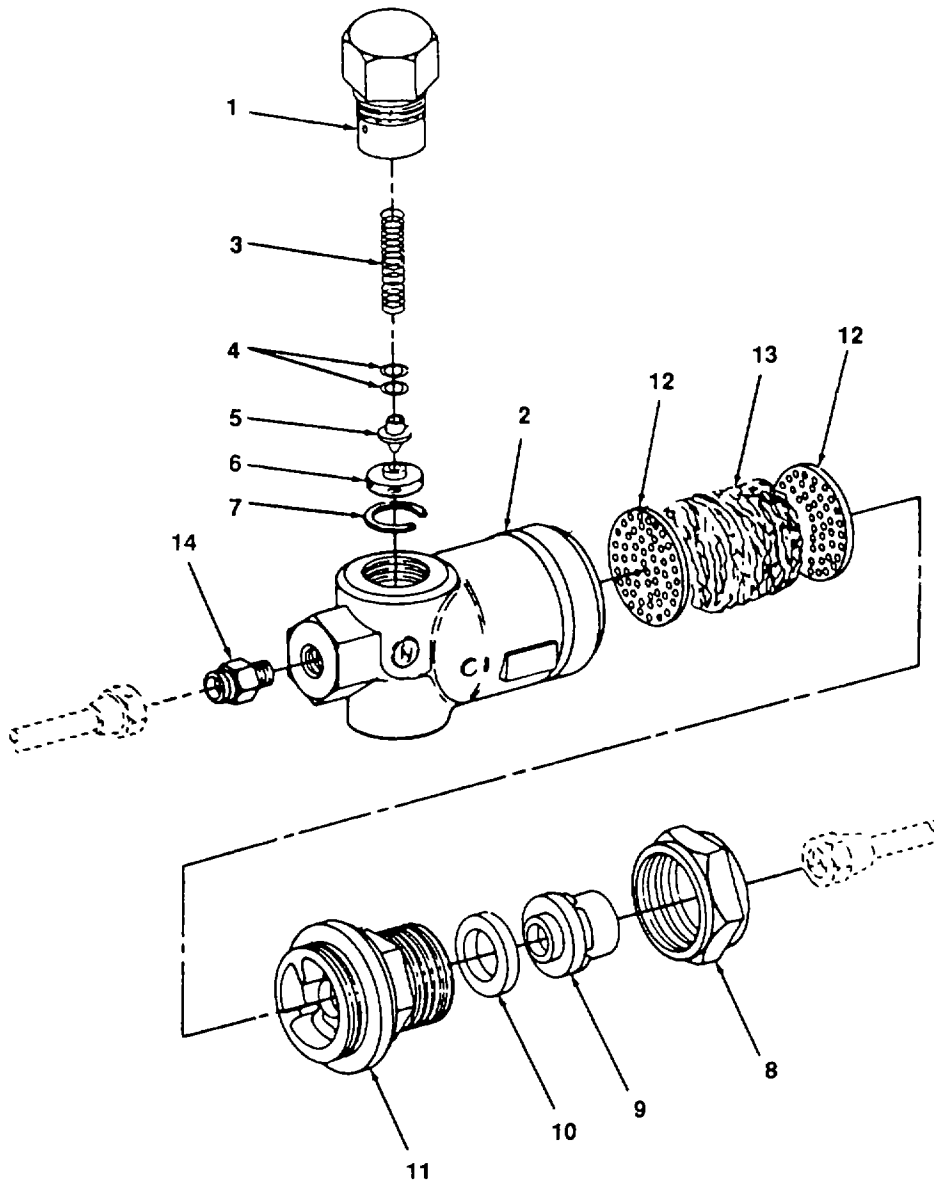


Figure 138. Valve, Strainer and Check.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 138 VALVE, STRAINER AND CHECK	
1	82722	543860	NUT, CAP	1
2	82722	24892	BODY	1
3	82722	95618	SPRING	1
4	82722	543859	SHIM	2
5	82722	543857	SEAL, SPRING	1
6	82722	542227	VALVE, CHECK	1
7	82722	543858	RING, SNAP	1
8	82722	2165	NUT	1
9	82722	14294	SWIVEL, 3/8 IN.	1
10	82722	81598	GASKET, 1 5/32 IN	1
11	82722	14661	NUT, CAP	1
12	82722	1044	STRAINER	2
13	82722	734877	HAIR, CURLED	1
14	82722	25906	FITTING, 3/8 CHOKE	1
			END OF FIGURE	

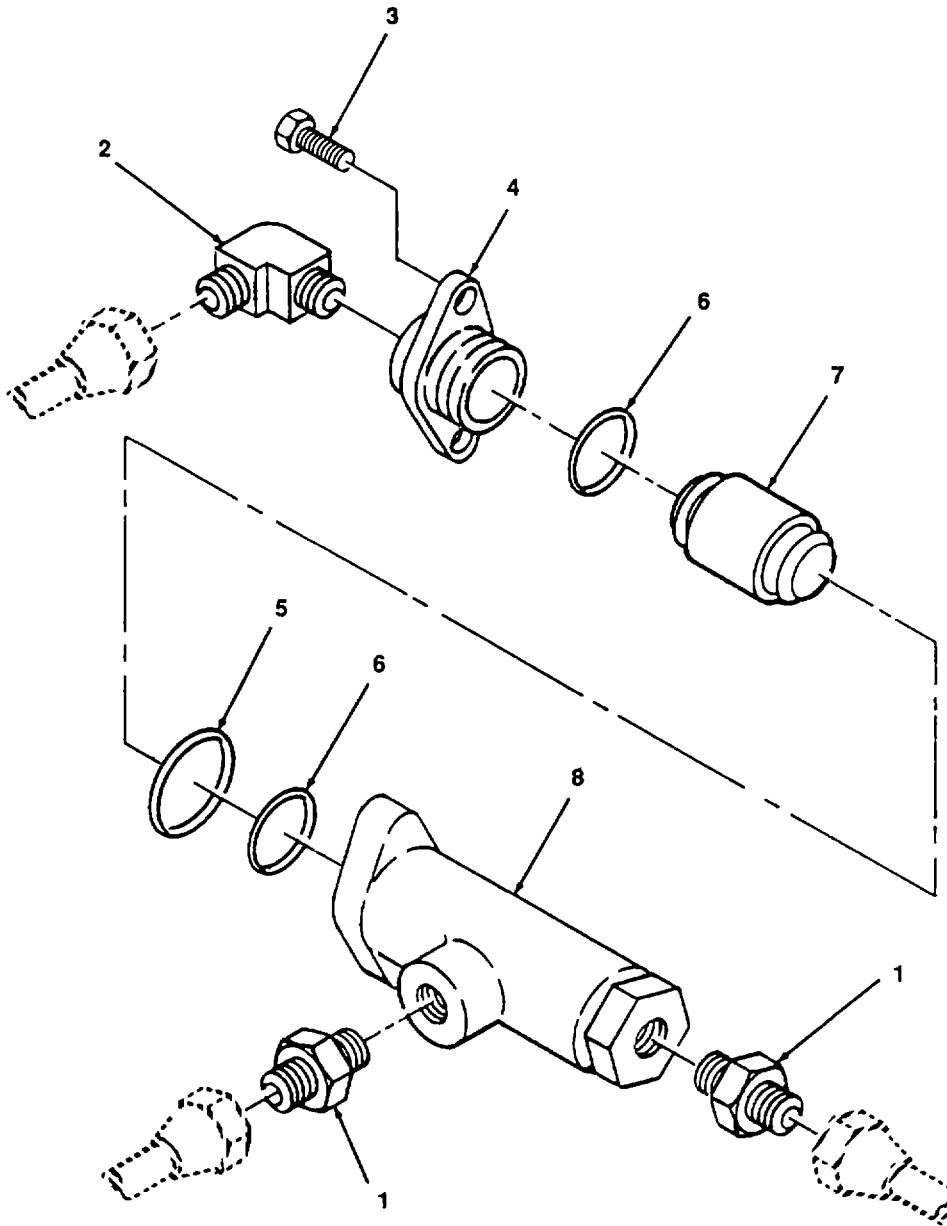


Figure 139. Valve, No. 24 Double Check.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG 139 VALVE, NO 24, DOUBLE CHECK	
1	30327	648F1 -2X3-8	ADAPTER, PIPE TO TUBE, 1/2 IN	2
2	96906	MS51504-BB	ELBOW, 3/8 X 1/2	1
3	82722	96053	BOLT	2
4	82722	572686	FLANGE, END	1
5	82722	523842	O-RING, 5/8 IN O D	1
6	82722	523734	O-RING, 7/8 IN O D	2
7	82722	560981	VALVE	1
8	82722	560980	BODY	1
			END OF FIGURE	

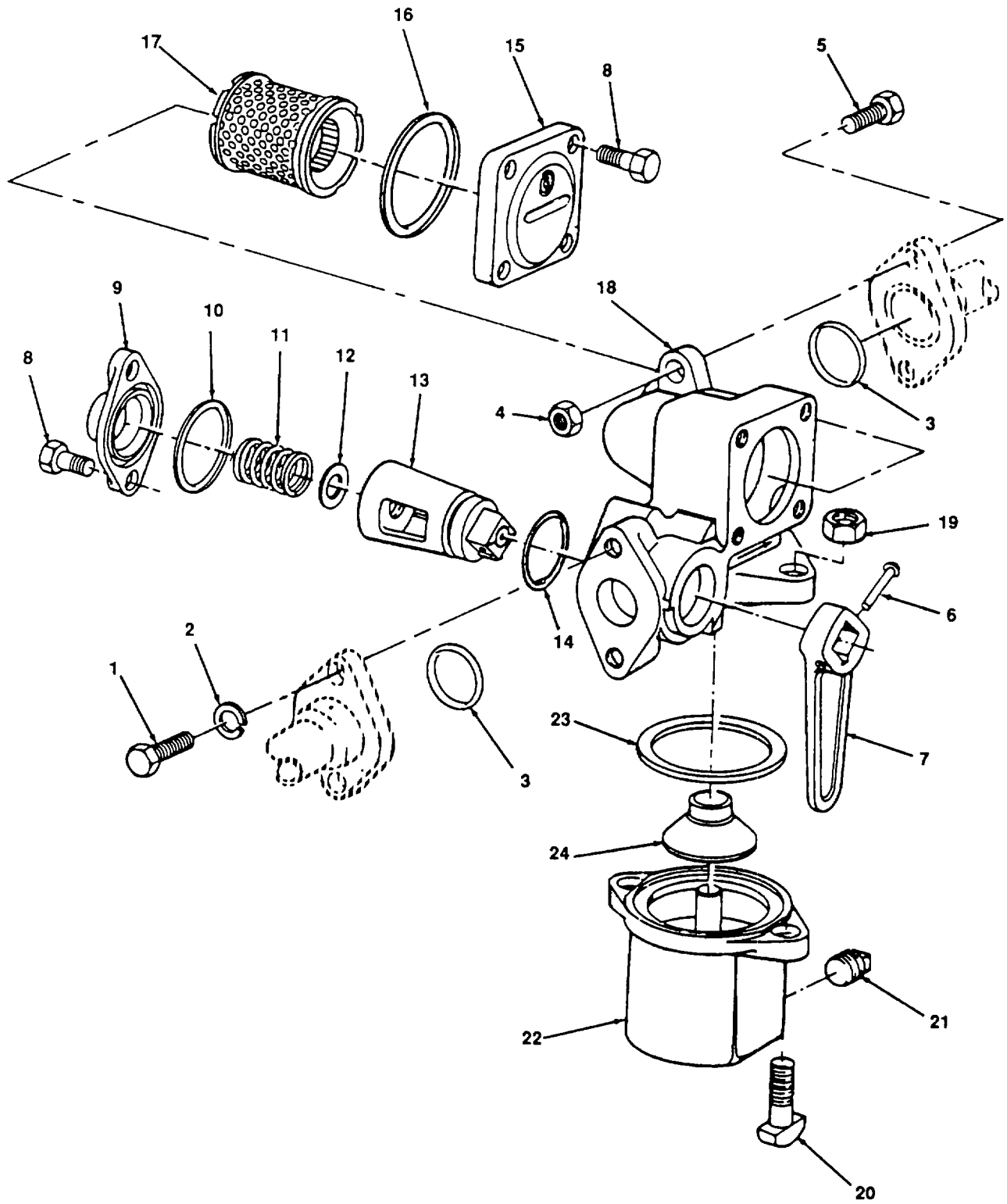
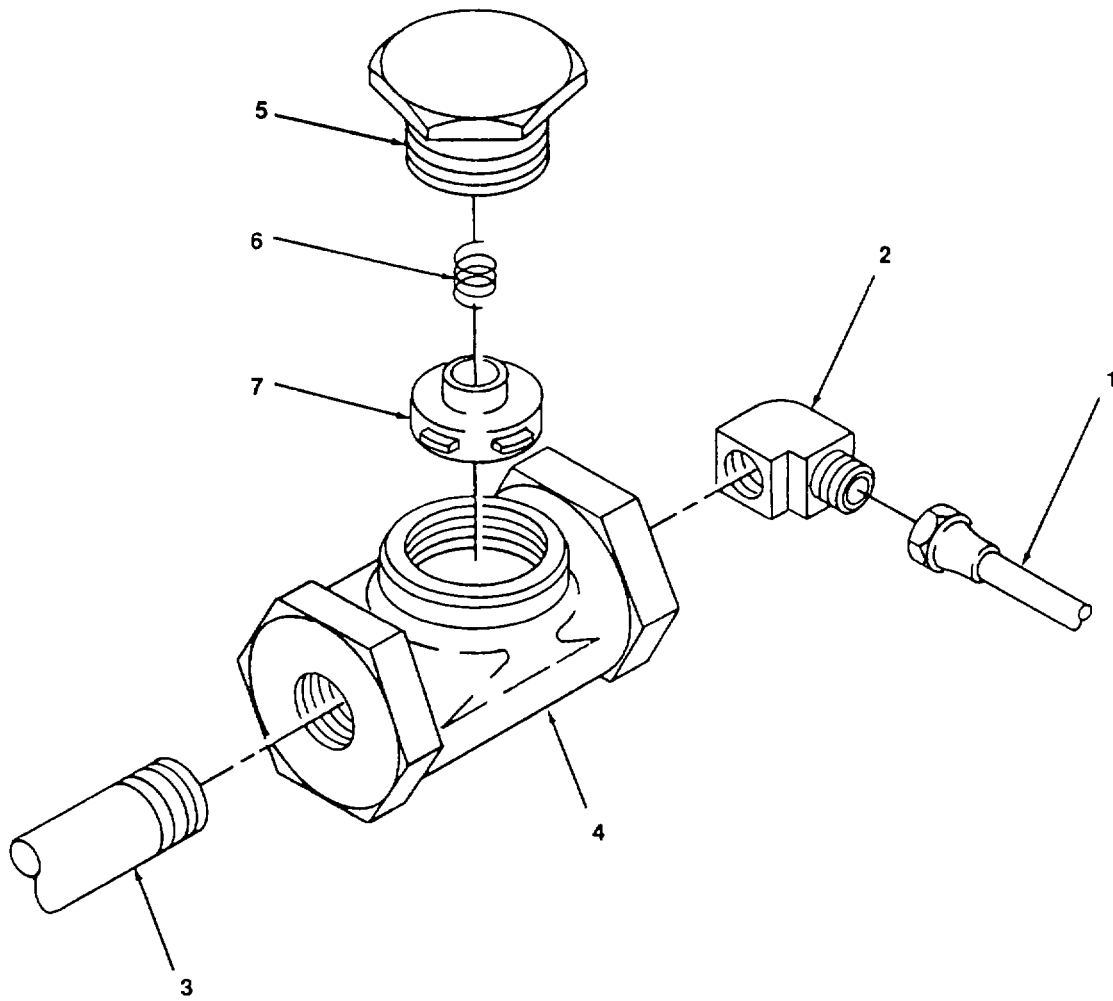


Figure 140. Cut-Out Cock Strainer.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 140 CUTOUT COCK AND STRAINER	
1	96906	MS90725	SCREW, HEX-HEAD, 3/8-16 X 1 IN	2
2	96906	MS35338-46	LOCKWASHER, 3/8 IN (NSN 5310-00-543-5101)	2
3	96906		GASKET (NSN 5330-00-365-6626)	2
4	96906	MS51922-33	LOCKNUTS, 1/2 IN NF (NSN 5310-00-068-8067)	2
5	96906	MS90725-115	BOLT, 1/2 X 2 IN. (NSN 5305-00-701-7628)	2
6	82722	735187	PIN	1
7	82722	562837	HANDLE	1
8	82722	7978	SCREW, HEX-HEAD	6
9	82722	94942	COVER, COCK KEY	1
10	82722	94826	GASKET	1
11	82722	2094	SPRING	1
12	82722	741758	WASHER, NYLON	1
13	82722	735279	KEY	1
14	82722	524794	O-RING, 1 1/2 IN O D	1
15	82722	558140	COVER, STRAINER	1
16	82722	532616	GASKET, 3 IN. O D RING	1
17	82722	569146	ELEMENT, FILTER	1
18	82722	562836	BODY	1
19	96906	2505	NUT, 1/2 IN. HEX	2
20	96906	10831	BOLT, 1/2 X 1 7/8 TEE HEAD	2
21	96906	33310	PLUG, 1/2 IN PIPE	1
22	82722	562838	CHAMBER, DIRT	1
23	96906	75932	GASKET, DIRT CHAMBER	1
24	96906	75551	VALVE, CHECK	1
			END OF FIGURE	



4834-141

Figure 141. Valve, Check, Rubber Seated.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1			GROUP 19 BRAKE SYSTEM, AIR FIG 141 VALVE, CHECK, RUBBER SEATED FITTING, AIR LINE (NSN 4730-00-288-0826) NOTE FITTING INCLUDES 1/2 IN FLARE NUT (NSN 4710-00-203-3172)	1
2	96906	MS51504-BB	ELBOW, 3/8 X 1/2	1
3	96906		NIPPLE, PIPE, 3/8 IN X 7/8 IN (NSN 4730-00-188-1864)	1
4	82722	543326	VALVE, RUBBER SEATED, CHECK ASSY	2
5	82722		NUT, FLARE, 1/2 IN (NSN 4710-00-203-3172)	
6	82722	543092	SPRING	1
7	82722	578336	VALVE	1
			END OF FIGURE	

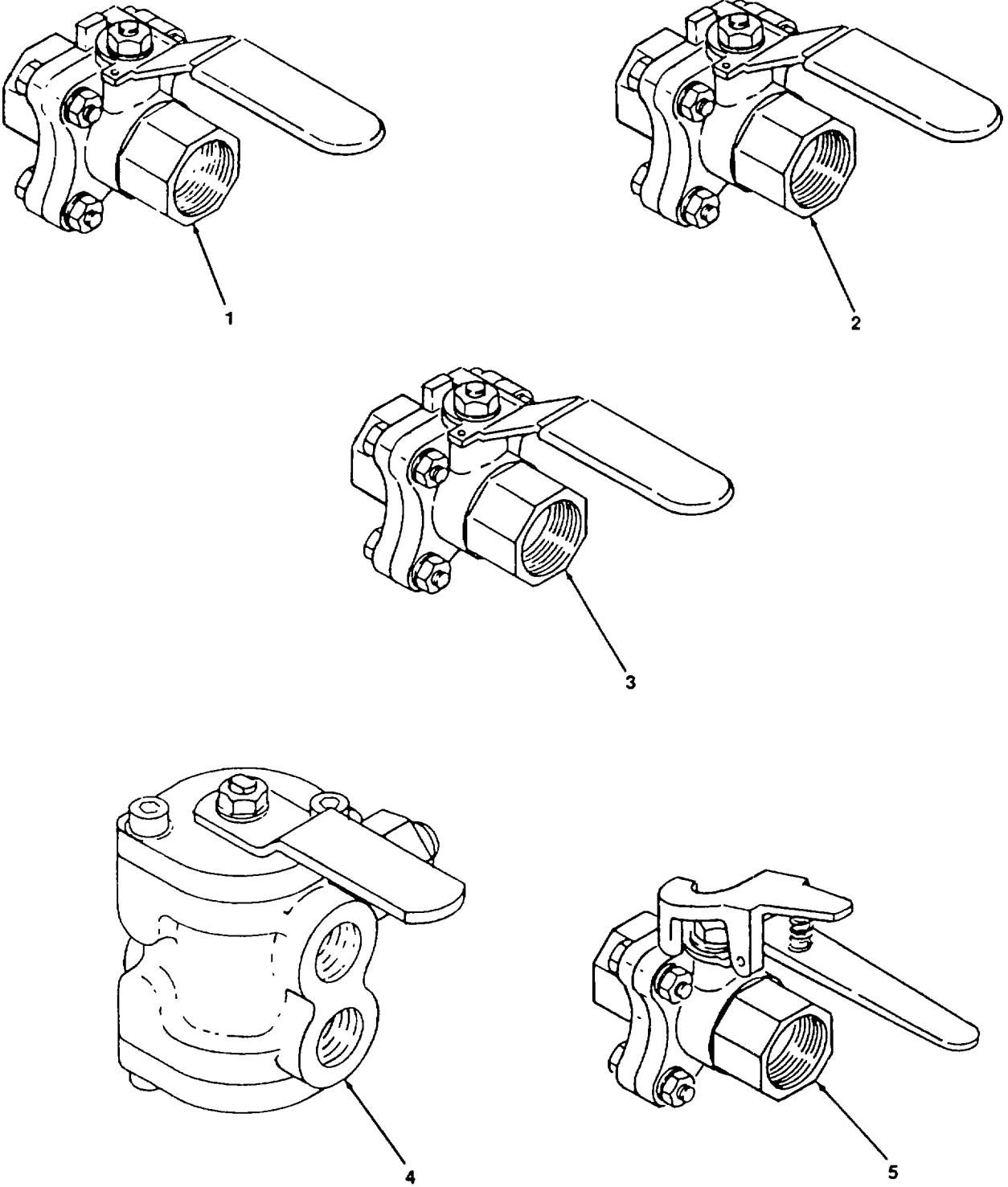


Figure 142. Cut-Out Cock, Ball.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 142 CUTOUT, COCK, BALL	
1	82722	572475	COCK, BALL CUTOUT, 3/8 IN	2
2	82722	579831	COCK, BALL CUTOUT, 11/4 IN	2
3	82722	576599	COCK, BALL CUTOUT, 1/2 IN	8
4	82722	579082	COCK, BALL CUTOUT, DOUBLE PORTED, 1/2 X 1/2	1
5	82722	576601	COCK, BALL CUTOUT, 1 IN	1
			END OF FIGURE	

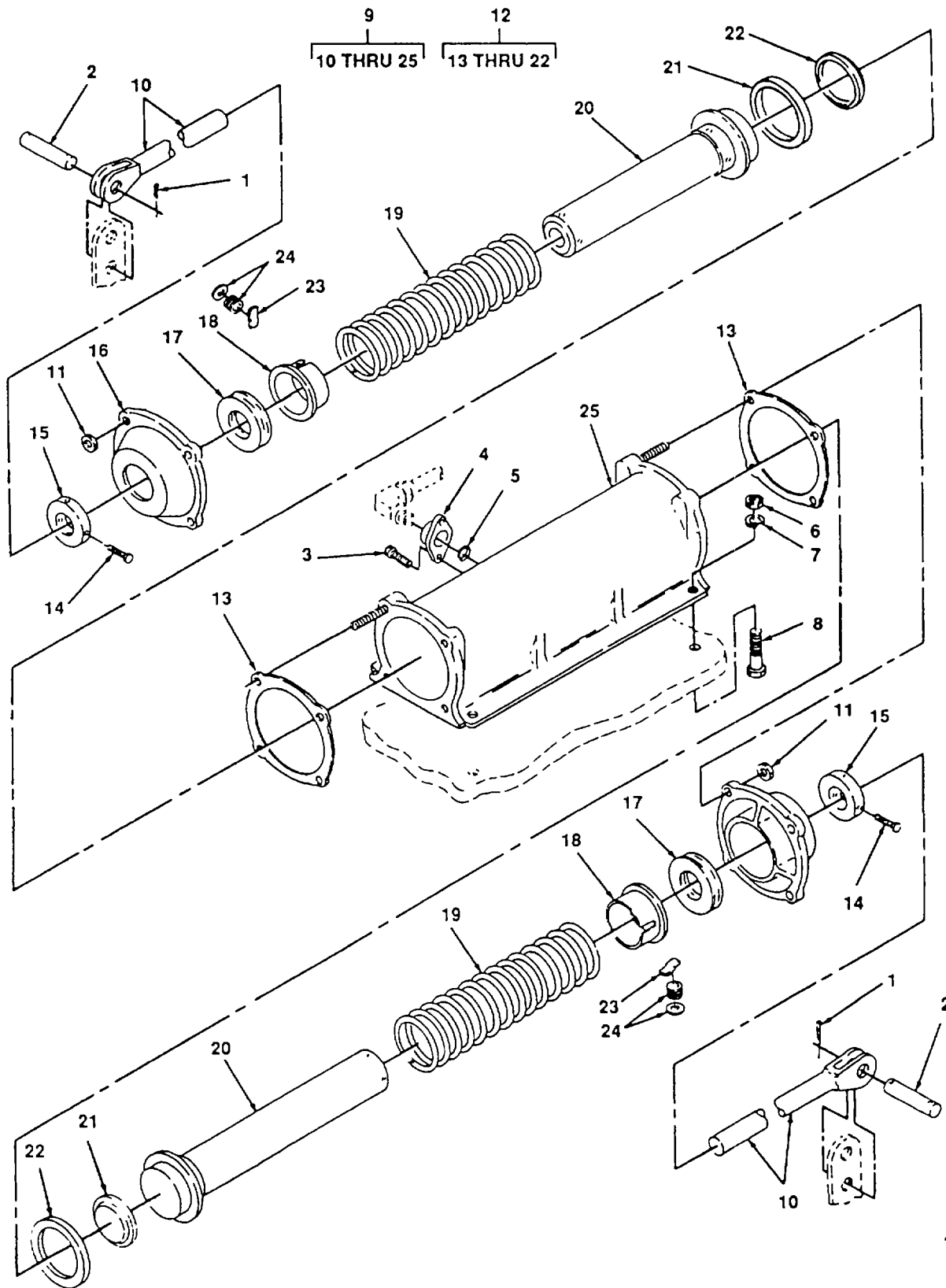


Figure 143. Cylinder Brake.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 143 CYLINDER, BRAKE	
1	96906	MS24665-751	COTTER PIN, 3/8 X 2 1/2 IN (NSN 5315-00-878-8209)	2
2	96906	PIN, 1/8 X 3 IN	2	
3	96906	MS90725-113	SCREW, 1/2 X 1 1/2 IN, HEX-HEAD	2
4	82722	563219	FLANGE	1
5	96906		GASKET (NSN 5330-00-506-3721)	1
6	96906	MS51967-21	NUTS, 5/8-11 UNC	4
7	96906	MS35338-50	WASHER, LOCK	4
8	96906	MS90725	SCREW, CAP, 5/8 X 3 (NSN 5305-00-724-7228)	4
9	82722	523554	CYLINDER, BRAKE ASSEMBLY (NSN 2240-160-9888)	1
10	82722	506568	RODS, PUSH	2
11	82722	2505	NUTS, HEX-HEAD	4
12	82722	510108	PISTON, ASSEMBLY	1
13	82722	501529	GASKET	1
14	96906	MS90725	SCREW, HEX	4
15	82722	506470	HOLDER, PUSH ROD	1
16	82722	533580	HEAD, NONPRESSURE	1
17	82722	501529	GASKET, FELT (NSN 5330-499-5512)	1
18	82722	503892	SEAT, SPRING	1
19	82722	506463	SPRING	1
20	82722	506499	PISTON	1
21	82722	530137	SWAB, LUBRICATOR	1
22	82722	501530	CUP, PACKING	1
23	82722	99821	RING, RETAINER	1
24	82722	99820	STRAINER	1
25	82722		BRAKE CYLINDER HOUSING	1
			END OF FIGURE	

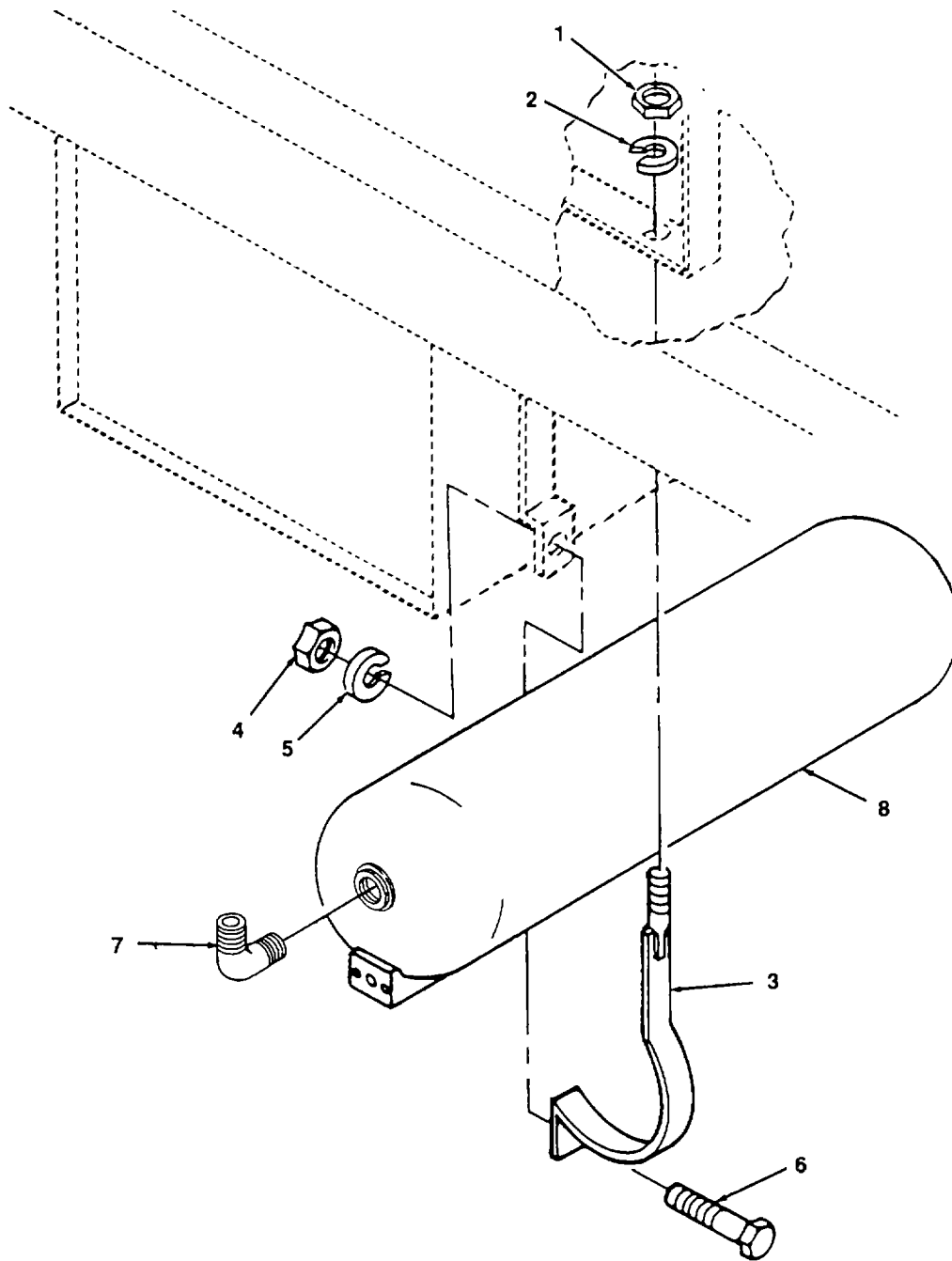


Figure 144. Reservoir Main Air.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 144 RESERVOIR, MAIN AIR	
1	96906	MS51967-24	NUT, 3/4 IN	2
2	96906	MS35338-51	WASHER, LOCK, 3/4 IN	2
3	24446		STRAP, SUPPORT	2
4	96906	MS51967-15	NUT, HEX, 1/2	2
5	96906	MS35338-48	WASHER, LOCK, 1/2	2
6	96906	MS90725	SCREW, HEX-HEAD, 1/2 X 1/2	2
7	72423	1043-400	ELBOW	1
8	24446	9962053P1	RESERVOIR, MAIN AIR	1
			END OF FIGURE	

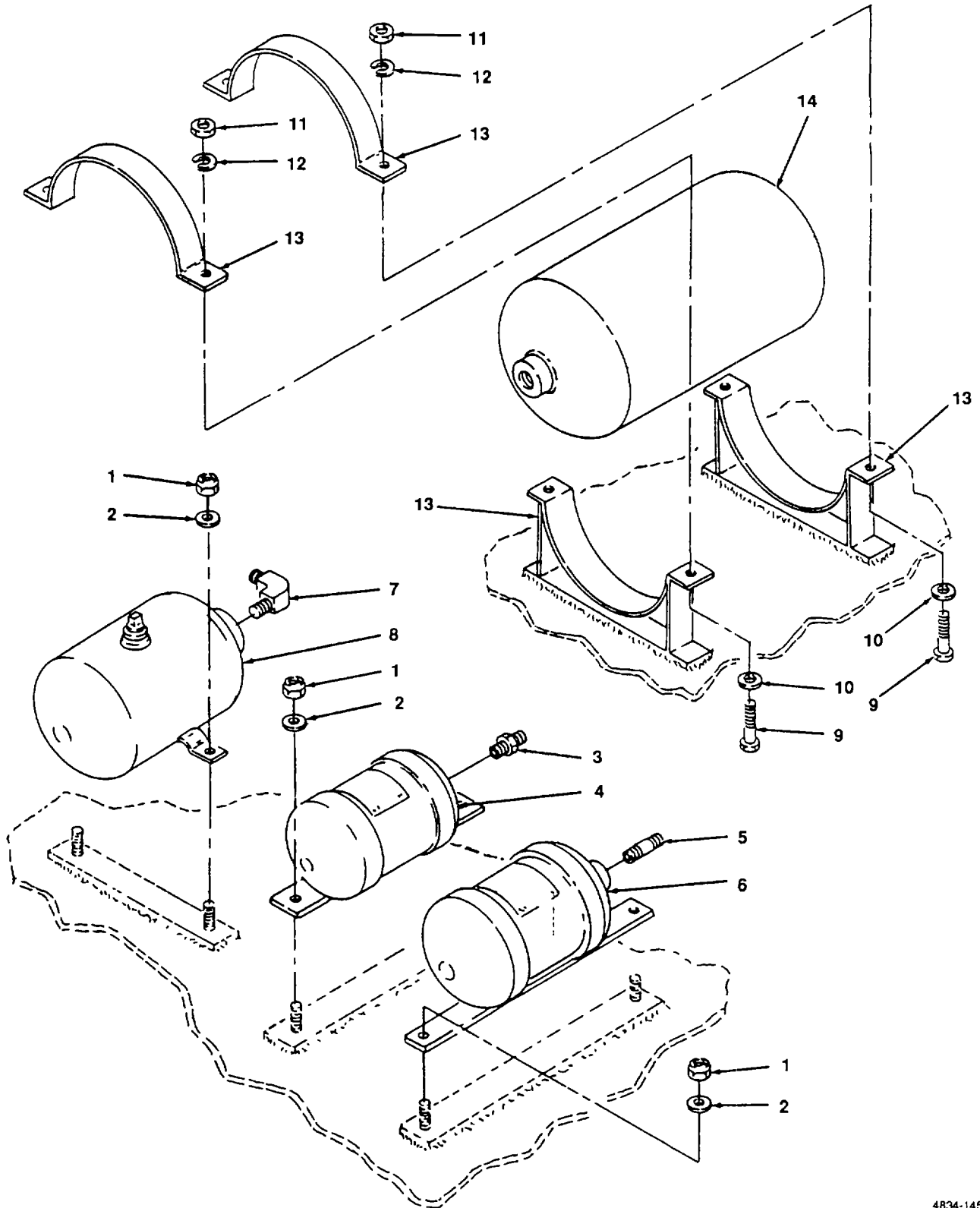
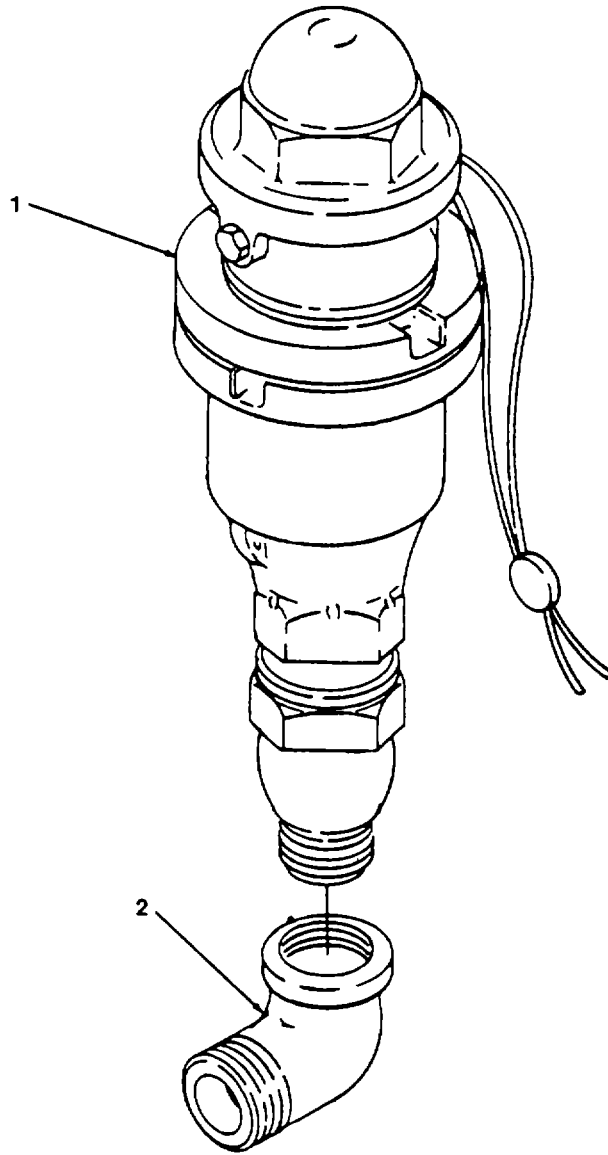


Figure 145. Reservoir Auxiliary.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 AIR BRAKE SYSTEM GROUP	
			FIG. 145 RESERVOIRS, AUXILIARY	
1	96906	MS51922-33	NUT, LOCKING, 1/2 IN	6
2	96906	MS27183-18	WASHER, FLAT	6
3	96906	MS51500-BB	ADAPTER, PIPE TO TUBING, 3/8 TO 1/2 IN	1
4	82722	557676	RESERVOIR, VOLUME	1
5	96906	MS51873-49	NIPPLE, PIPE, CLOSE, 3/8	1
6	82722	559113	RESERVOIR	1
7	96906	MS51504-BB	ELBOW, PIPE TO TUBING, 3/8 X 1/2 IN.	1
8	82722	557085	RESERVOIR, EQUALIZING	1
9	96906	MS90725-36	SCREW, HEX-HEAD, 5/16 X 1 1/4 IN	4
10	96906	MS27183-12	WASHER, FLAT, 5/16	4
11	96906	MS51922-9	NUT, SELF-LOCKING	4
12	96906	MS35338-48	WASHER, LOCK	4
13	97403	13228E2149-86	BRACKETS	2
14	82722	518122	RESERVOIR, CONTROL AIR	1
			END OF FIGURE	



4834-146

Figure 146. Valve Pop-Off Safety Main Air Reservoir.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
1 2	82722 72423	1207-200 1203-200	GROUP 19 BRAKE SYSTEM, AIR  FIG. 146 VALVE, SAFETY, MAIN AIR RESERVOIR  VALVE, MAIN AIR SAFETY ELBOW, 900 HAR, 1 IN.  END OF FIGURE	1 1

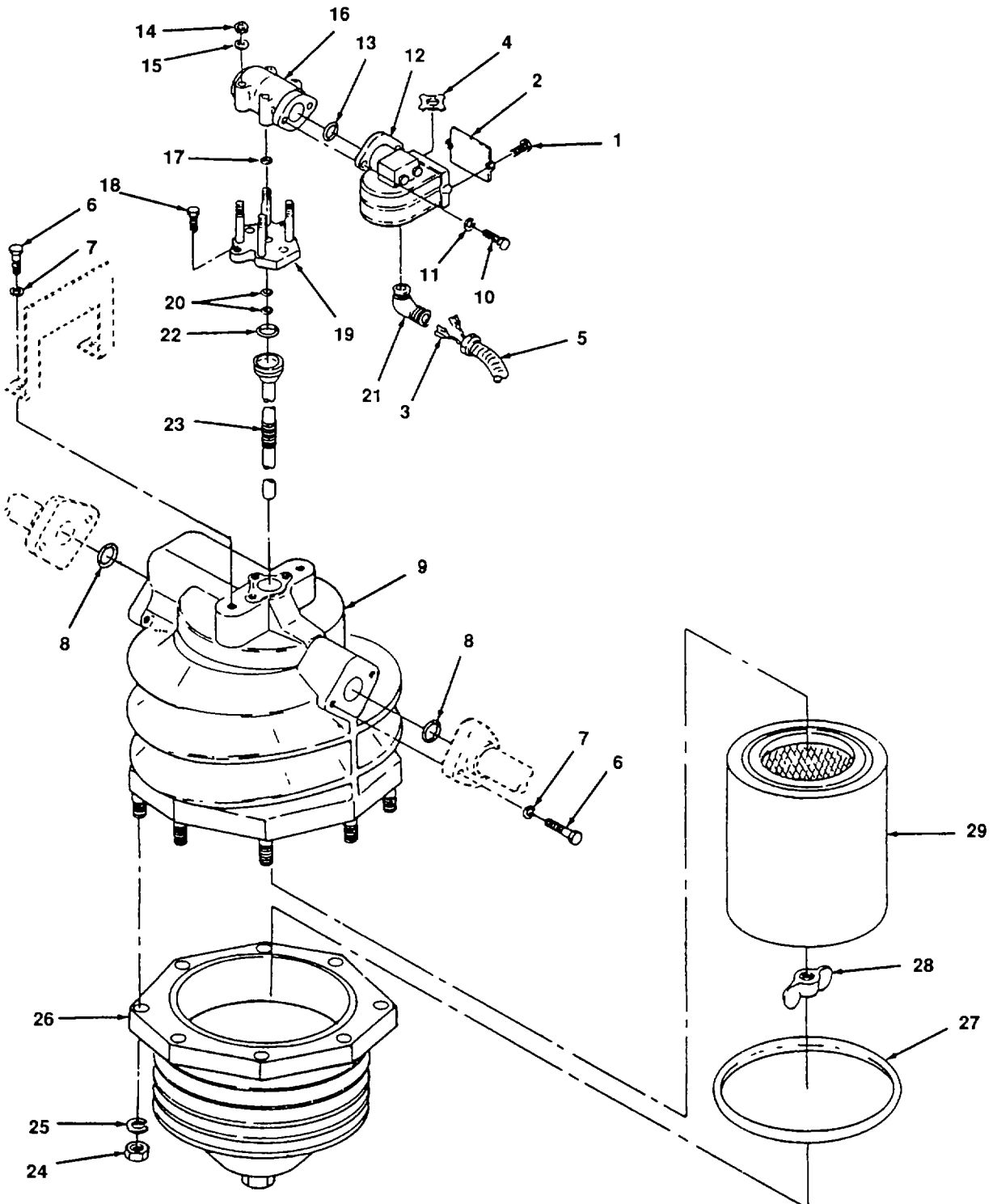
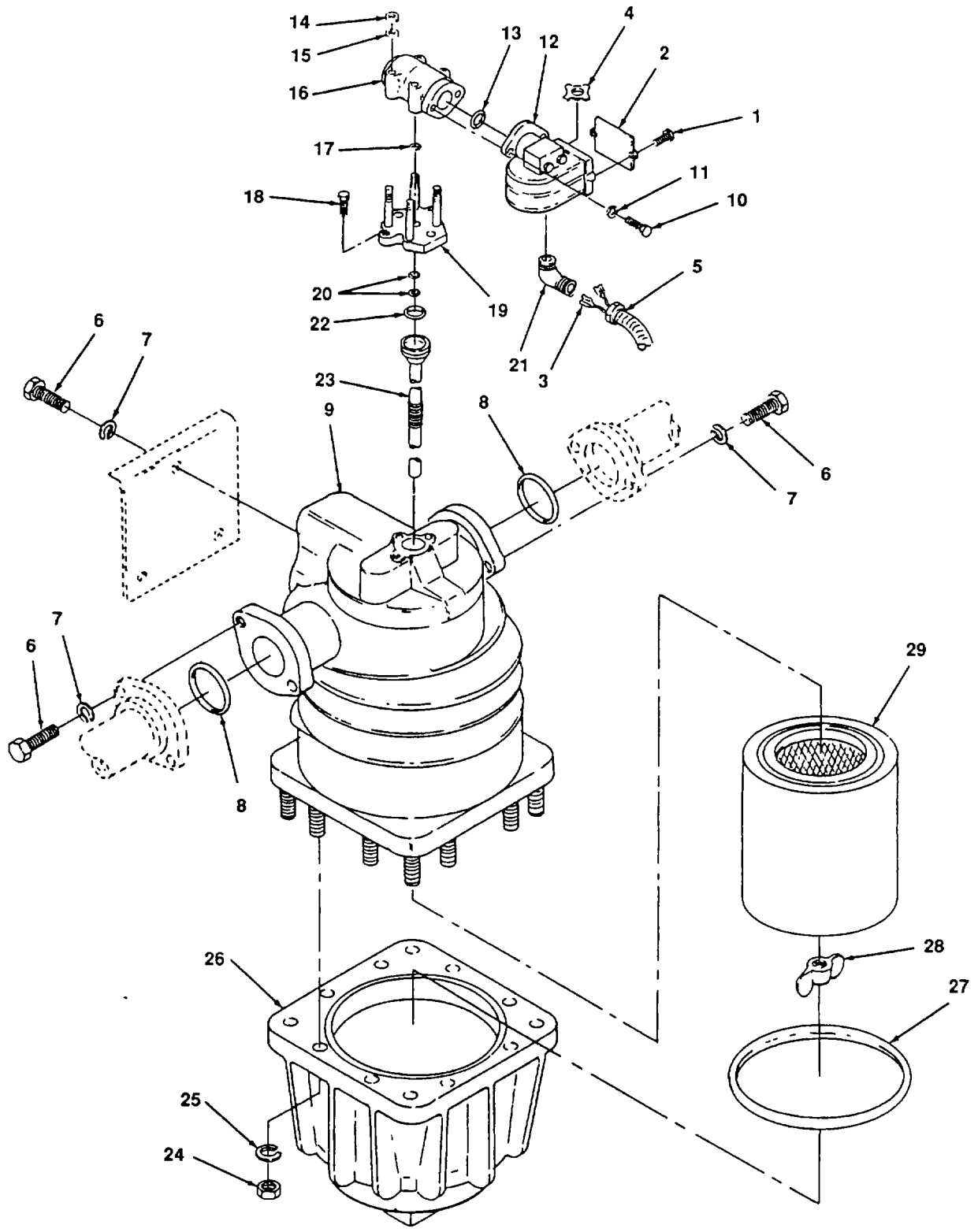


Figure 147. Filter Air Centrifugal.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 147 FILTER, AIR, CENTRIFUGAL, PRIMARY	
1	96906	MS90725-3	SCREW, 1/4 X 1/2	2
2	30187	2856-6	COVER	1
3			LEAD, ELECTRICAL, MAKE FROM, 14 AWG 8491796 (72915), TERMINAL, 14 AWG, SPADE P/N A2272 (46522)	
4	96906	MS51922-33	NUT, CONDUIT, 1/2 IN LOCK	1
5	09641		CONDUIT (NSN 5975-00-100-8775)	1
6	96906	MS90725-162	SCREW, HEX-HEAD, 5/8 X 1 1/2 (NSN 5305-00-724-5910)	6
7	96906	MS35338-50	WASHER, LOCK, 5/8 (NSN 5310-00-820-6653)	6
8	82722	94790	O-RING	2
9	30187	824-74	FILTER, AIR CENTRIFUGAL FOR 32 VOLT	1
10	96906	MS90725-6	SCREW, HEX-HEAD	2
11	96906	MS35338-44	WASHER, LOCK, 1/4 IN	2
12	30187	2103-2	BODY, SOLENOID	1
13	30187	1085	O-RING	1
14	30187	2127	NUT, HEX	4
15	30187	1908	WASHER, FLAT	4
16	30187	2103-2	BODY, VALVE ASSY	1
17	30187	1434	SEAL	1
18	30187	2127	SCREW	3
19	30187	2121	ADAPTER, DRAIN VALVE	1
20	30187	1085	SEAL	2
21	30187	2172	ELBOW, 450	1
22	30187	2111	O-RING	1
23	30187	5126	ASSEMBLY, EXHAUST TUBE	
24	30187	2174	NUT, HEX-HEAD	8
25	30187	1684	WASHER, LOCK	8
26	30187	5125	BOWL, SUMP	1
27	30187	2170	GASKET	1
28	30187	2176	NUT, WING	1
29	30187	2181	FILTER, ELEMENT	1
			END OF FIGURE	



4834-148

Figure 148. Filter, Centrifugal Air, Secondary.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 BRAKE SYSTEM, AIR	
			FIG. 148 FILTER, AIR, CENTRIFUGAL, SECONDARY	
1	96906	MS90725	SCREW, 1/4 X 1/2	2
2	30187	2856-6	COVER	1
3			LEAD, ELECTRICAL, MAKE FROM, 14 AWG 8491796 (72915)	
4	96906	MS51922-33	TERMINAL, 14 AWG, SPADE P/N A2272 (46522)	
5	09641		NUT, CONDUIT, 1/2 IN LOCK	1
6	96906	MS90725-162	CONDUIT (NSN 5975-00-100-8775)	1
7	96906	MS35338-50	SCREW, HEX-HEAD, 5/8 X 11/2 (NSN 5305-00-724-5910)	6
8	82722	94790	WASHER, LOCK, 5/8 (NSN 5310-00-820-6653)	2
9	30187	824-74	O-RING	1
10	96906	MS90725-6	FILTER, AIR CENTRIFUGAL FOR 32 VOLT	2
11	96906	MS35338-44	SCREW, HEX-HEAD	2
12	30187	2103-2	WASHER, LOCK, 1/4 IN	2
13	30187	1085	BODY, SOLENOID	1
14	30187	2127	O-RING	1
15	30187	1908	NUT, HEX	4
16	30187	2103-2	WASHER, FLAT	4
17	30187	1434	BODY, VALVE	1
18	30187	2127	SEAL	1
19	30187	2121	SCREW	3
20	30187	1085	ADAPTER, DRAIN VALVE	1
21	30187	2172	SEAL	2
22	30187	2111	ELBOW, 450	1
23	30187	2102	O-RING	1
24	30187	2174	ASSEMBLY, EXHAUST TUBE	
25	30187	1684	NUT, HEX-HEAD	12
26	30187	2107	WASHER, LOCK	12
27	30187	2120	BOWL, SUMP	1
28	30187	2176	GASKET	1
29	30187	2181	NUT, WING	1
			FILTER, ELEMENT	1
			END OF FIGURE	

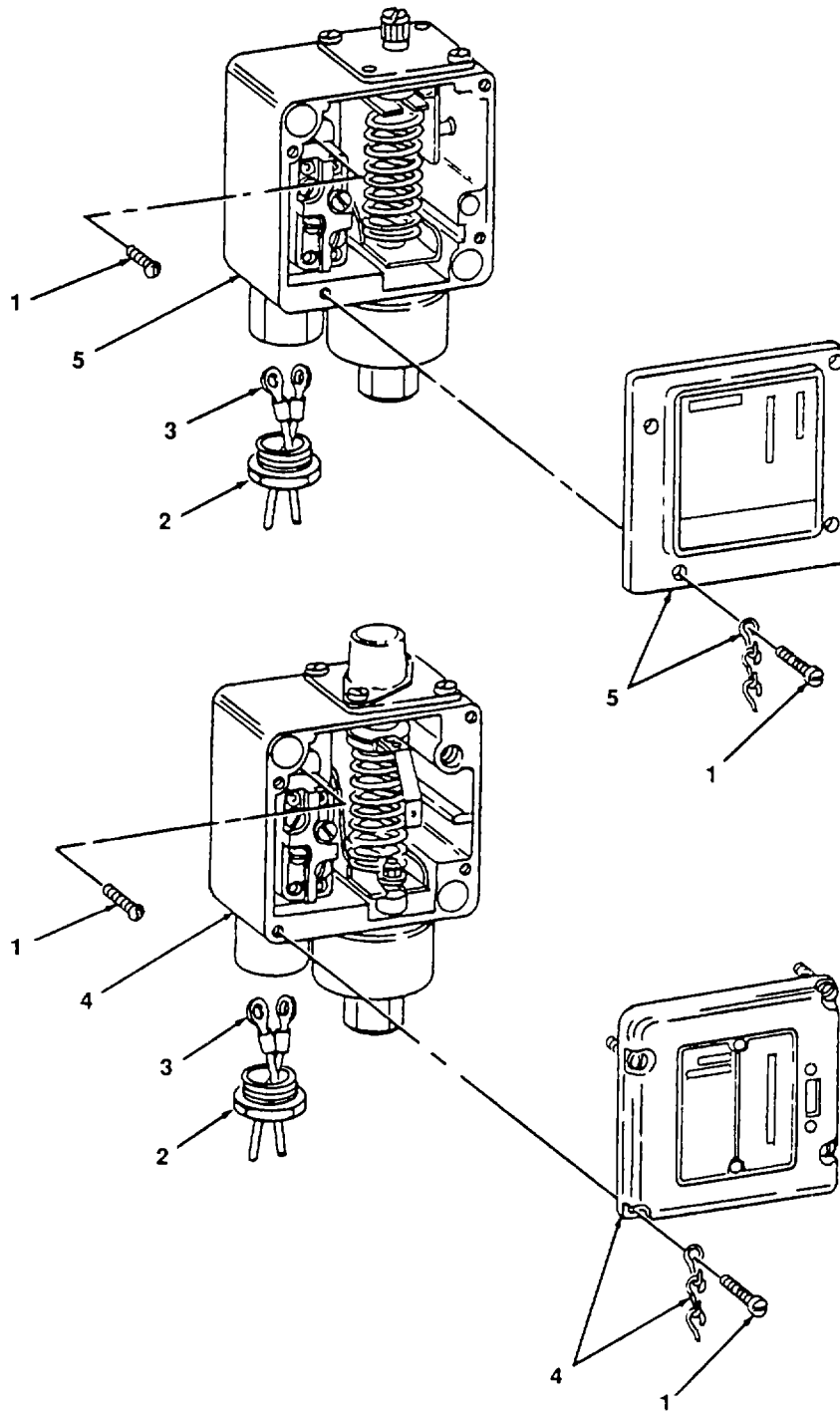


Figure 149. Switches, Air Pressure Control.



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 AIR BRAKE SYSTEM GROUP	
1	96906		FIG. 149 SWITCHES, AIR PRESSURE CONTROL	
2	06865	1222	SCREW, #10	6
3			BUSHING, ELECTRICAL CONDUIT	1
			LEAD, ELECTRICAL, MAKE FROM, 14 AWG	2
			P/N 8491796 (72915), TERMINAL 14-16 AWG	
			#10 STUD, P/N 31906 (89110), REF DES,	
			(SCPS) SP, SP61 K, (PCS) SP, MSCP (ALCPS)	
			26CP, CM	
4	80971	41B510557P14	SWITCH, PRESSURE, REF DES, SCPS	1
5	80971	41B510557P15	SWITCH, PRESSURE, REF DES; PCS, ACPS	2
			END OF FIGURE	

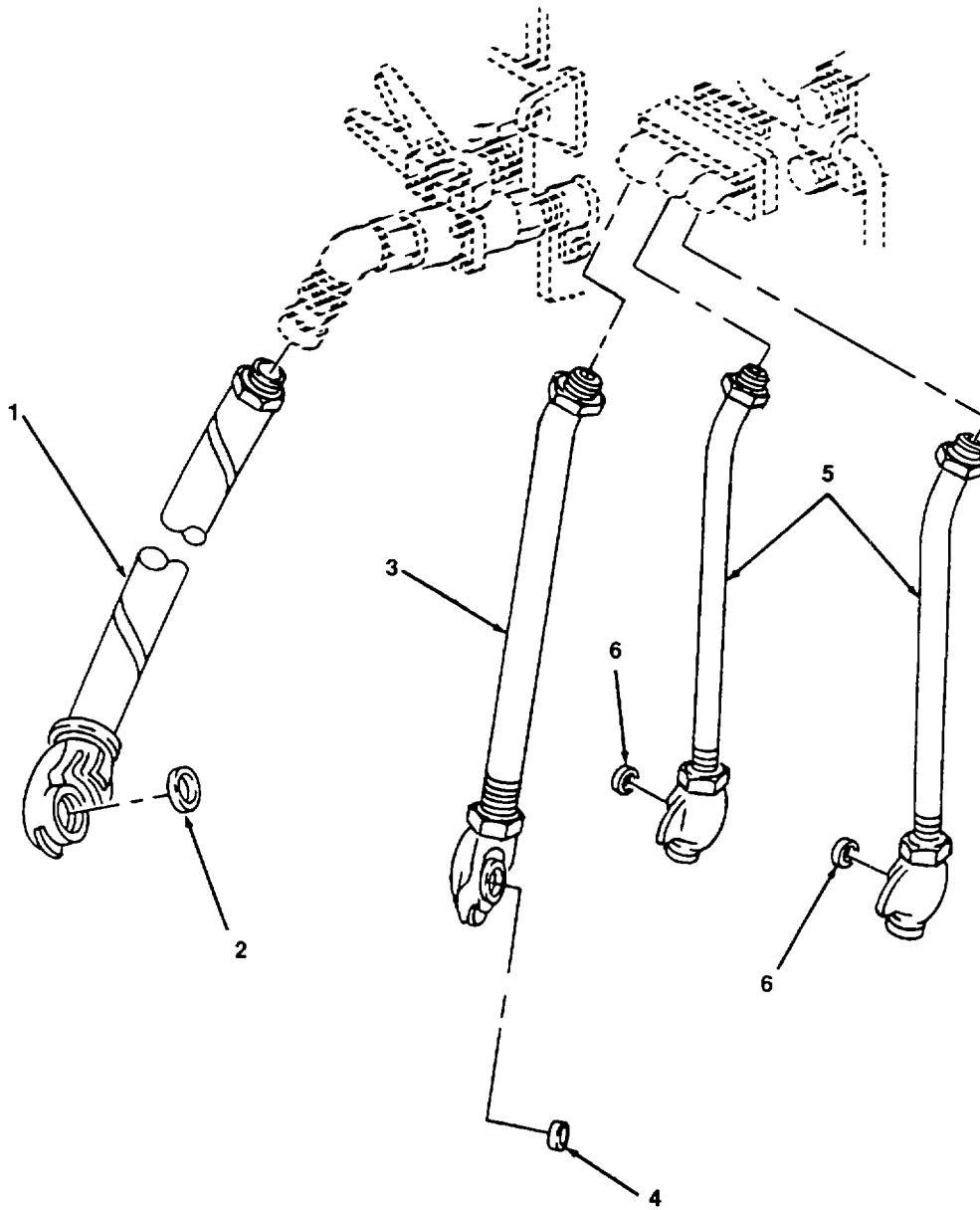
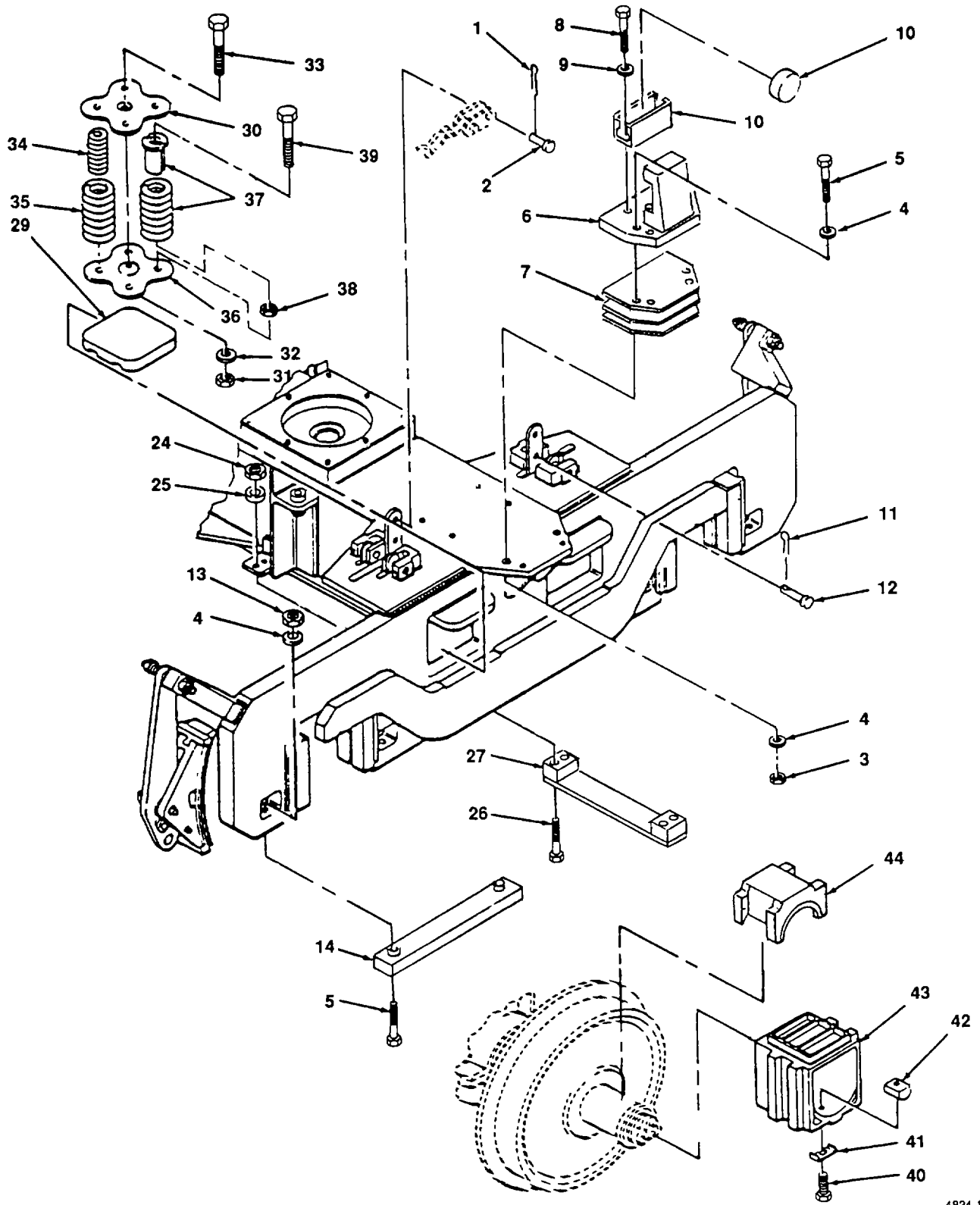


Figure 150. Hoses and Fittings, Trainline Air.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 19 AIRBRAKE SYSTEM, AIR GROUP	
			FIG. 150 HOSES AND FITTINGS, TRAINLINE AIR	
1	82722	987101	HOSE, AIR BRAKE 1 3/8 IN DIA X 22 IN LONG W/FP-5 COUPLING	2
2	82722	563952	GASKET, COUPLING	
3	82722	542977	HOSE, AIR BRAKE MAIN RESERVOIR, 1 1/8 IN DIA X 29 IN LONG W/LS-4 COUPLING	2
4	82722		GASKET, COUPLING, 1 1/8 IN DIA	1
5	82722	543007	HOSE, AIR BRAKE ACTUATING, 3/4 IN DIA X 25 IN LONG W/HS-2 COUPLING	4
6	82722		GASKET, COUPLING, 3/4 IN DIA	4
			END OF FIGURE	



4834-151 1

Figure 151. Truck Assembly (Sheet 1 of 2).

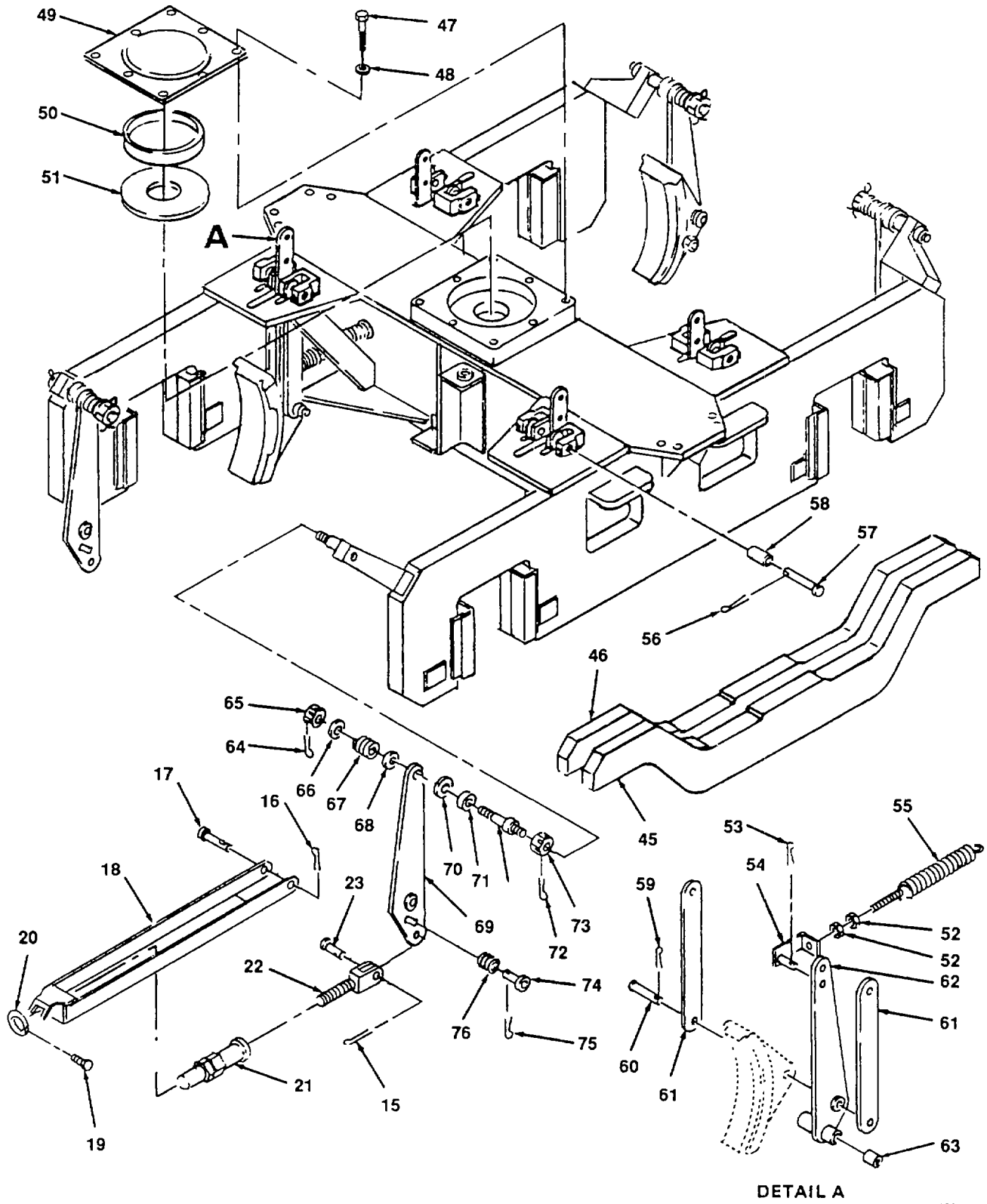


Figure 151. Truck Assembly (Sheet 2 of 2).

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 20 TRUCKS AND UNDERFRAME	
			FIG. 151 TRUCK ASSEMBLY	
1			PIN, COTTER	4
2			PIN, HEADED, HANDBRAKE	4
3	96906	MS51967-33	NUT, HEX, 1 1/8-7 NC (NSN 5310-260-1823)	8
4	96906	MS35338-53	WASHER, LOCK, 1 IN	24
5	96906	MS90725	SCREW, HEX-HEAD, 1-8 UNC	24
6			HOOK, SAFETY	2
7			SHIMS, HOOK, SAFETY	6
8	96906	MS90725	SCREW, HEX-HEAD, 7/8-9 UNC	4
9	96906	MS35338-52	WASHER, LOCK, 7/8	4
10	24446	160X67	BASE, SIDE BEARING WITH ROLLER	2
11			PIN, COTTER	4
12			PIN, HEADED, BRAKE CYLINDER	4
13	96906	MS51967-30	NUT, HEX, 1-8 UNC	16
14	24446	4739508P1	PLATE, STAY, JOURNAL BOX	8
15			PIN, COTTER	8
16			PIN, COTTER	8
17	24446	6729364P58	PIN, HEADED, STRAIGHT, BRAKE ROD	8
18	24446	8840843G2	ROD, BRAKE	8
19			SCREW, SET	8
20			COLLAR	8
21	24446	8812915	NUT, COLLAR, BRAKE HANGER	8
22	24446	192X63	SCREW, ADJUSTING, BRAKE ROD ASSEMBLY	8
23	24446	8816764	PIN, CLEVIS, FOUNDATION BRAKE	8
24			NUT, HEX	4
25			WASHER, LOCK	4
26			SCREW, HEX-HEAD	4
27	24446		PLATE, SAFETY	1
28	24446	8825932G2	CLUSTER, HELICAL SPRING (NSN 2240-377-1343)	8
29			PAD, SPRING	8
30	24446	192X96	SEAT, COIL SPRING	8
31	96906	MS51967-15	NUT, HEX, 1/2-13 UNC	4

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 151 TRUCK ASSEMBLY (CONT)	
32	96906	MS35338-48	WASHER, LOCK, 1/2	4
33	96906	MS90725	SCREW, HEX-HEAD CAP, 1/2-13 UNC X 7 IN	4
34	24446	4758070	SPRING, HELICAL, INNER	28
35	24446	4758069	SPRING, HELICAL OUTER	28
36			SEAT, SPRING, LOWER	8
37	24446	4758071	SPRING, BOLSTER, HELICAL	8
38			NUT, SPRING, BOLSTER	8
39			SCREW, HEX-HEAD, BOLSTER	8
40	96906	MS90725-207	SCREW, HEX-HEAD, 7/8-9 UNC X 1 1/2 IN	4
41	60038	K82667	PLATE, LOCKING	4
42			BLOCK	4
43			BOX, JOURNAL	4
44	60038	K85073	ADAPTER, FRAME, BEARING SADDLE	4
45			EQUALIZER, OUTER	2
46			EQUALIZER, INNER	2
47	96906	MS90725-03	SCREW, HEX-HEAD, 1/4-20 UNC X 1/2 IN	8
48	96906	MS35338-44	WASHER, LOCK, 1/4	8
49	82047	9947068G1	GUARD, DUST, CENTER PLATE	1
50	24446	8868657G1	RING, WEAR, CENTER PLATE (NSN 2240-795-9847)	1
51	24446	88457S1G1	PLATE, CENTER	1
52			NUT, HEX	16
53			PIN, COTTER	4
54			BRACKET, SPRING	4
55	24446	4764971	SPRING, BRAKE, SPIRAL (NSN 5360-160-8846)	4
56	96906		PIN, COTTER, 1/4 X 3 1/2 IN. (NSN 5315-00-234-1638)	8
57	24446	497A203B1	PIN, CLEVIS	8
58	24446	8825341 P1	BEARING, CLEVIS SLEEVE (NSN 3120-368-5708)	16
59	24446	261836	PIN, COTTER, 3/8 X31 IN (NSN 5315-846-4297)	4
60	53150	2252086	PIN, HEADED, BRAKE LEVER STRAIGHT	4

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 151 TRUCK ASSEMBLY (CONT)	
61	24446	6757507G8	HANGER, BRAKE	8
62	24446	6757507G9	LEVER, RAILWAY CONNECTION, L H, 39 3/8 IN LONG	1
62	24446	6757507G2	LEVER, RAILWAY CONNECTION, R H, 39-3/8 IN	1
62	24446	6757507G5	LEVER, RAILWAY CONNECTION, R H, 36-3/8 IN LG	1
62	24446	6757507G3	LEVER, RAILWAY CONNECTION, L H, 36-3/8 IN LG	1
63	24446	8825341	BEARING, SLEEVE, BRAKE LEVER	8
64			PIN, COTTER	4
65	24446	39X388	NUT, STUD, SUSPENSION, 1 IN -8 NC	4
66	96906	MS35338-53	WASHER, FLAT	4
67			SPRING, HELICAL, SUSPENSION PIN AND STUD (NSN 5340-377-1354)	4
68			WASHER, SUSPENSION SPRING	4
69	24446	6757507GA	LEVER, RAILWAY CONNECTION, 34-1/6 IN	4
70			WASHER, LEVER, RAILWAY LEVER	4
71			SPACER, SUSPENSION STUD	4
72			PIN, COTTER	4
73			NUT, SLOTTED	4
74	24446	8821053P2	STUD, PLAIN, BRAKE LEVER SUSPENSION	4
75		6719450	PIN, COTTER	4
76	24446	4764903	SPRING, HELICAL, LINK (NSN 5340-128-8812)	4
			END OF FIGURE	



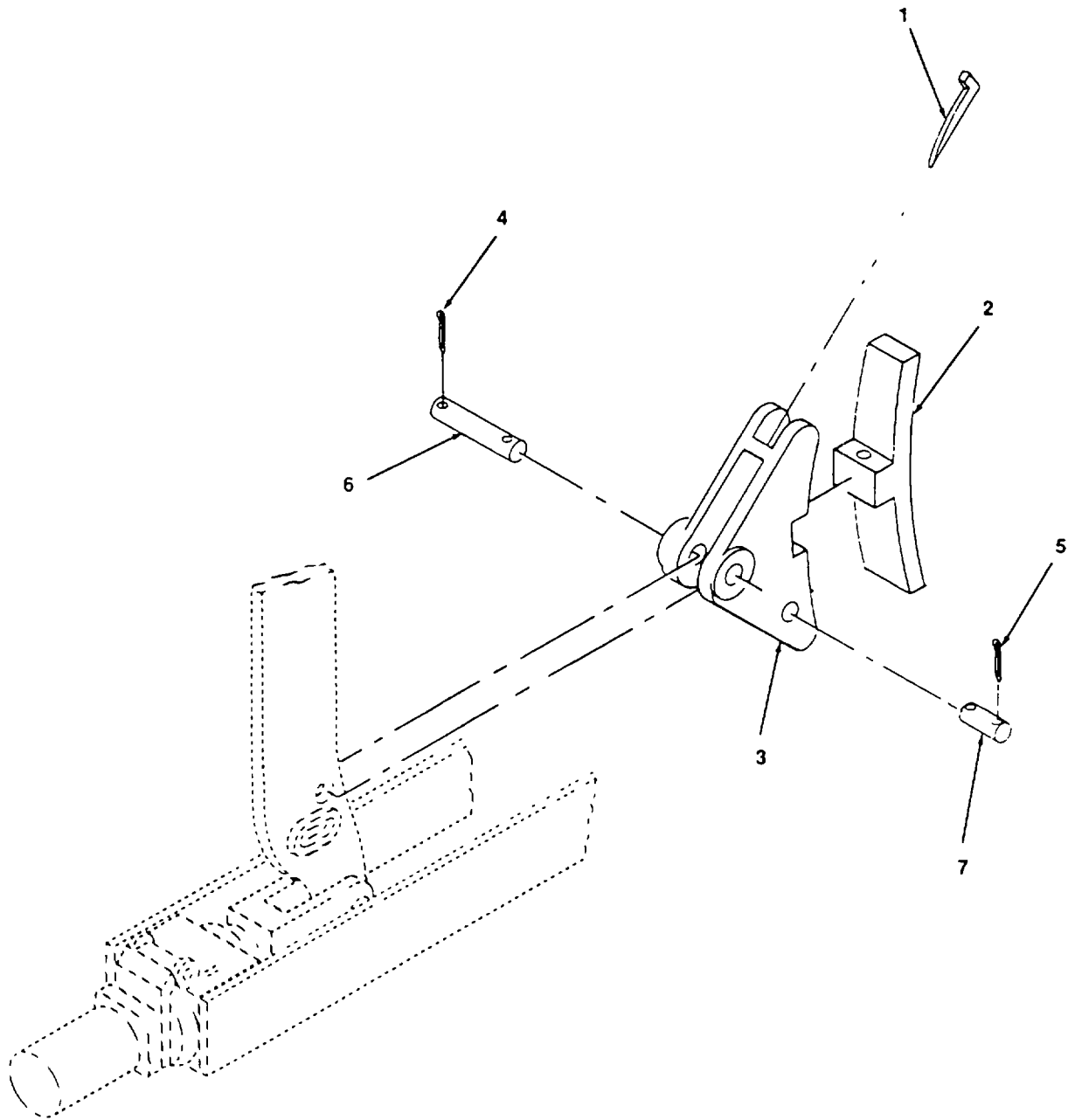
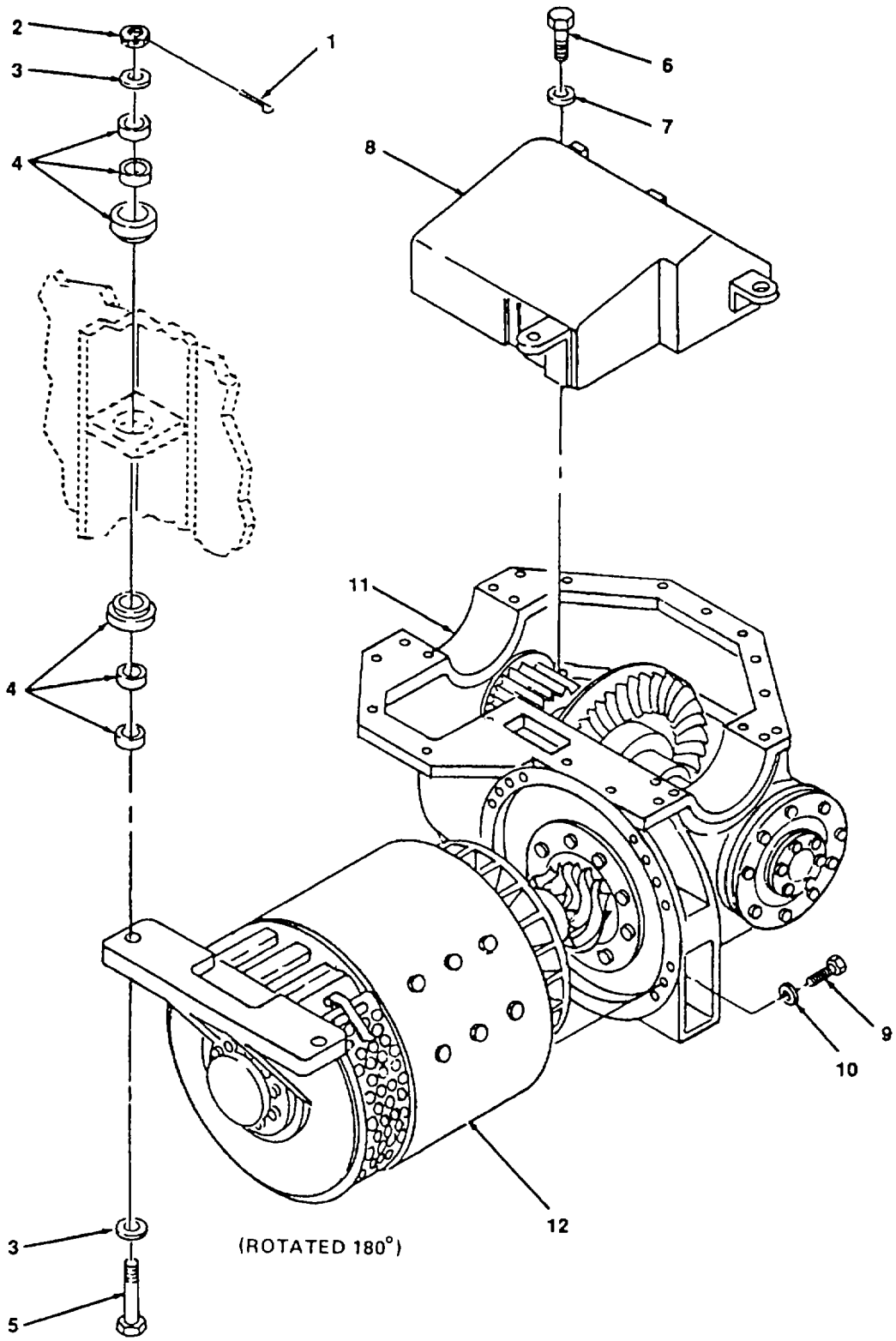


Figure 152. Foundation Brakeshoe and Breakhead Traction Motor Group.

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 20 TRUCKS AND UNDERFRAME	
			FIG. 152 FOUNDATION BRAKESHOES AND BACKHEAD	
1	95857	E90	KEY, BRAKESHOE, RAILWAY CAR	16
2	01862	A29	SHOE, BRAKE, RAILWAY CAR	16
3			HEAD, BRAKE	8
4	24446	261836	PIN, COTTER, BRAKE ROD, 3/8 DIA X 3 IN. LONG	32
5			PIN, COTTER, BRAKE ROD, 1/8 DIA X 1 1/2 IN LONG	
6	24446	6729364P26	PIN, HEAD, BRAKESHOE	8
7	24446	8808534	PIN, STRAIGHT, FOUNDATION BRAKE	8
			END OF FIGURE	



(ROTATED 180°)

Figure 153. Traction Motor (Sheet 1 of 3).

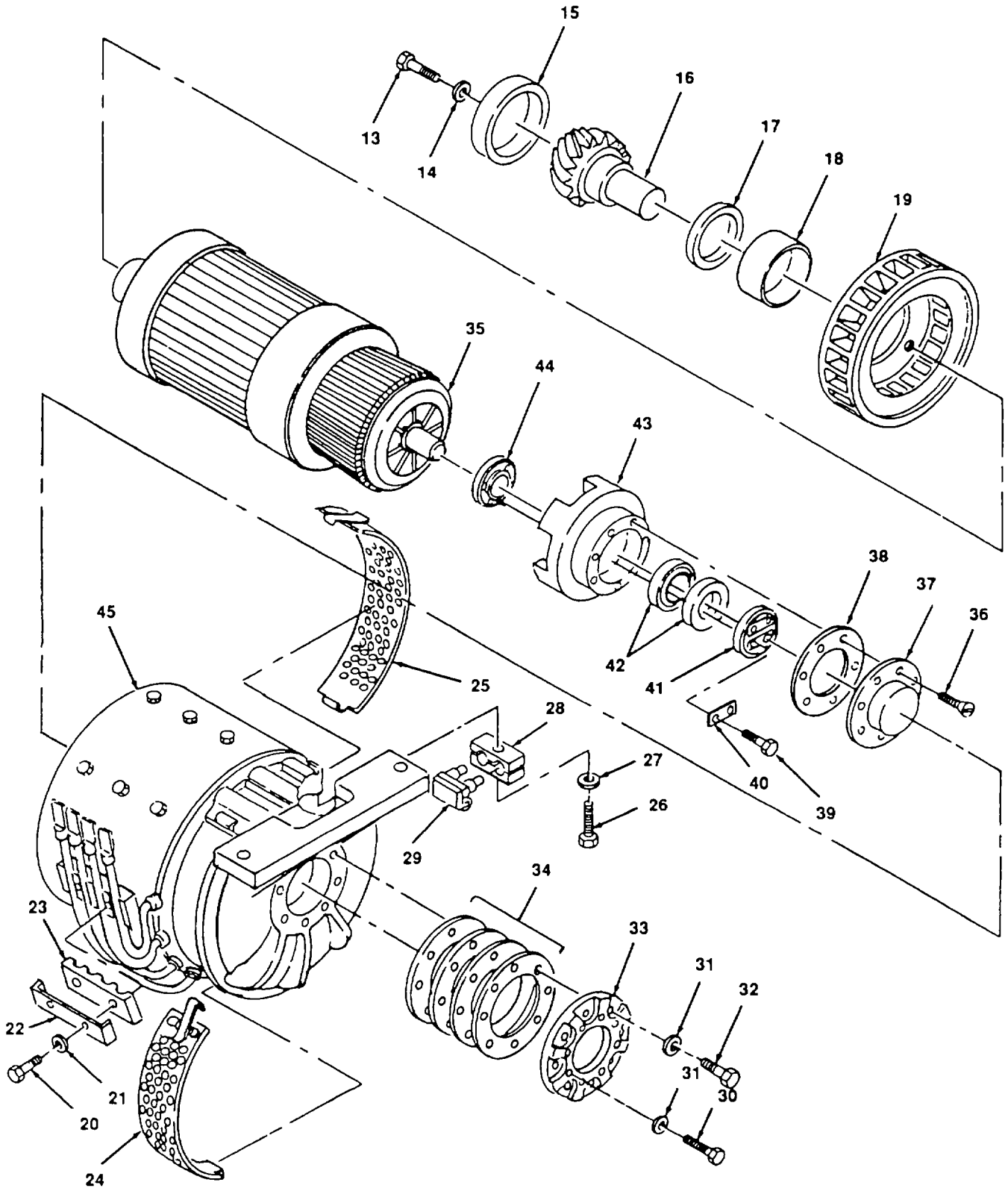


Figure 153. Traction Motor (Sheet 2 of 3).

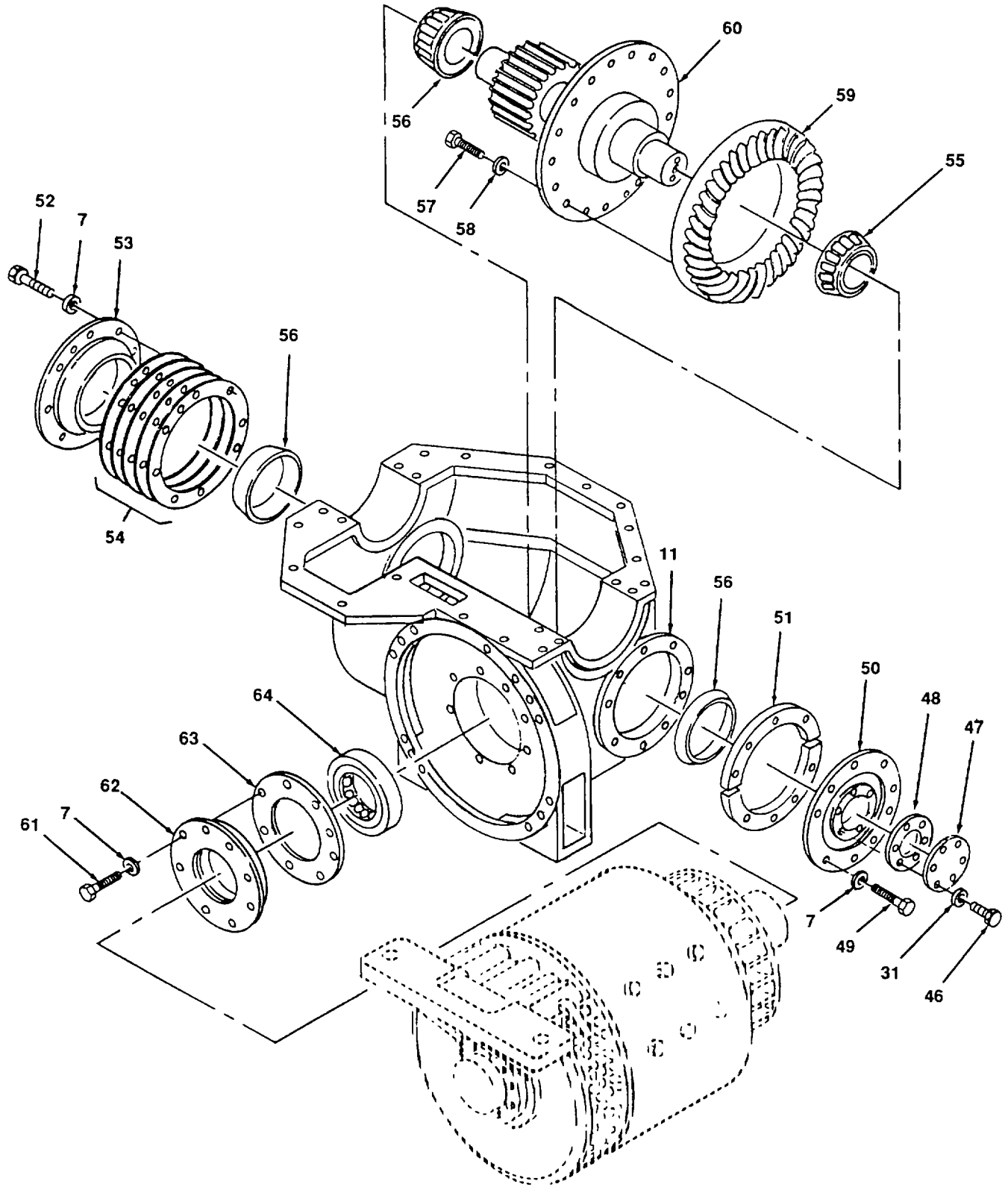


Figure 153. Traction Motor (Sheet 3 of 3).

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 21 TRACTION MOTOR	
			FIG. 153 TRACTION MOTOR AND GEAR UNIT	
1	24446	14547	PIN, COTTER	2
2	24446	270641	NUT	2
3	24446	8816910	WASHER, FLAT	2
4	24446	9962139G1	PAD ASSEMBLY	2
5	24446	8869918P29	BOLT, HEX-HEAD	2
6	24446	8806102P1	SCREW, HEX-HEAD, OIL PAN TO GEAR BOX, 5/8-11 NC	12
7	96906	MS35338-50	WASHER, LOCK, 5/8	116
8			PAN, OIL HYPOID	2
9	24446	220105	SCREW, HEX-HEAD, GEAR BOX TO MOTOR, 3/4-10 NC	48
10	96906	MS35338-51	WASHER, LOCK, 3/4 IN	48
11	80971	7GA22C1	UNIT, GEAR	4
12	24446	SGE747D2	TRACTION MOTOR	4
13	24446	6709888P1	SCREW, MACHINE PINION TO ARMATURE SHAFT, 3/4-16 NC	4
14	24446	6709884P1	WASHER, PINION BOLT, 3/4 IN	4
15			SLINGER, OIL	4
16			PINION, HYPOID	4
17	24446	6709832P1	COLLAR, SPACER BEARING TO PINION	4
18			RACE, BEARING	4
19			FAN, BLOWER TRACTION MOTOR	4
20			SCREW, HEX-HEAD	8
21			WASHER, LOCK	8
22			CLAMP, WIRE BRACKET	4
23			BRACKET, WIRE	4
24	24446	6744392G2	COVER, COMMUTATOR INSPECTION WITH CLAMPING LEVER, L.H	4
25	24446	6744392G1	COVER, COMMUTATOR INSPECTION WITH CLAMPING LEVER, R H	4
26			SCREW, HEX-HEAD	16
27			WASHER, LOCK	16
28			CLAMP, BRUSH HOLDER	16
29	24446		BRUSH ASSEMBLY (SEE FIG 112 FOR BREAKDOWN)	4

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 153 TRACTION MOTOR AND GEAR UNIT (CONT)	
30	96906	MS90725	SCREW, HEX-HEAD, 3/8-16 UNC	32
31	96906	MS35338-46	WASHER, LOCK, 3/8 IN	56
32	96906	MS90725	SCREW, HEX-HEAD, 5/8-11 UNC	32
33	24446	493A374PT1	PLATE, END, COMMUTATOR END	4
34			SHIMS, END PLATE, COMMUTATOR	
35	24446	6756899G1	ARMATURE, TRACTION MOTOR W/COMMUTATOR SHAFT AND FAN	4
36			SCREW, FLAT HEAD, SLOTTED	16
37	15434	334B309PT1	CAP, BEARING, COMMUTATOR END	4
38	24446	186V855PT1	GASKET, END CAP COMMUTATOR	4
39			SCREW, HEX-HEAD	16
40			BAR, LOCK TAB	8
41	60969	189V441 P1	PLATE, CLAMP, COMMUTATOR END	4
42	24446	8864950PT129	BEARING, BALL, COMMUTATOR END	8
43	15434	334B274PT1	HOUSING, BEARING SEAL, COMMUTATOR END	4
44	24446	493A384PT1	COLLAR, BEARING SEAL, COMMUTATOR END	4
45			HOUSING, MOTOR	4
46	24446	234483	SCREW, HEX-HEAD, BEARING HOUSING COVER	24
47			PLATE, COVER	4
48	24446	8806076P1	GASKET, COVER, BEARING HOUSING, GEAR END (NSN 5330-366-1607)	4
49	24446	98X25	SCREW, HEX-HEAD, BEARING HOUSING TO GEAR BOX 5/8-11 NC	36
50			HOUSING, BEARING	4
51			SPACER, SPLIT, BEARING HOUSING	4
52	96906	MS90725-163	SCREW, HEX-HEAD, BEARING HOUSING TO GEAR BOX, 5/8-11 NC X 1 3/4 IN LONG	36
53			HOUSING, BEARING	4
54	80971	8828025P1	SHIM, BEARING HOUSING, 0 003 IN THICK	V
	24446	8828025P23	SHIM, BEARING HOUSING, 0 005 IN THICK	V
	24446	8828025P2	SHIM, BEARING HOUSING, 0 007 IN THICK	V
	24446	8828025P4	SHIM, BEARING HOUSING, 0 025 IN THICK	V
	24446	6709830P4	SHIM, BEARING HOUSING, 0 063 IN THICK	V
55	24446	8864953P22	BEARING, ROLLER, TAPERED W/CONE AND CUP, PINION END	4

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
56	24446	8864953P22	FIG. 153 TRACTION MOTOR AND GEAR UNIT (CONT) BEARING, ROLLER, TAPERED W/CONE AND CUP, GEAR END	4
57	24446	6709856P1	SCREW, HEX-HEAD, 3/4-16 NC	72
58	24446	8806056P1	WASHER, HUB MTG SCREW, 3/4 IN	72
59	24446	153X5	GEAR, RING AND PINION SET, HYPOID RING, 49 TEETH, PINION; 10 TEETH	4
60	24446	6744394G7	SHAFT, REDUCTION GEAR INCL PINION AND HUB	4
61			SCREW, HEX-HEAD AP BEARING CAP TO GEAR BOX, 1/2° 18 NC X 1/2 IN. LONG	72
62	24446	6733789G1	CAP, ROLLER BEARING, W/LUBRICANT FLINGER (NSN 2240-366-1600)	4
63	24446	6709833P1	GASKET, BEARING CAP TO GEAR BOX	4
64	62679	NU32OW23	BEARING, CYLINDRICAL ROLLER PINION	4
<p><b>NOTE</b></p> <p>Assure bearing is manufactured specifically for traction motor use.</p>				
<p>END OF FIGURE</p>				



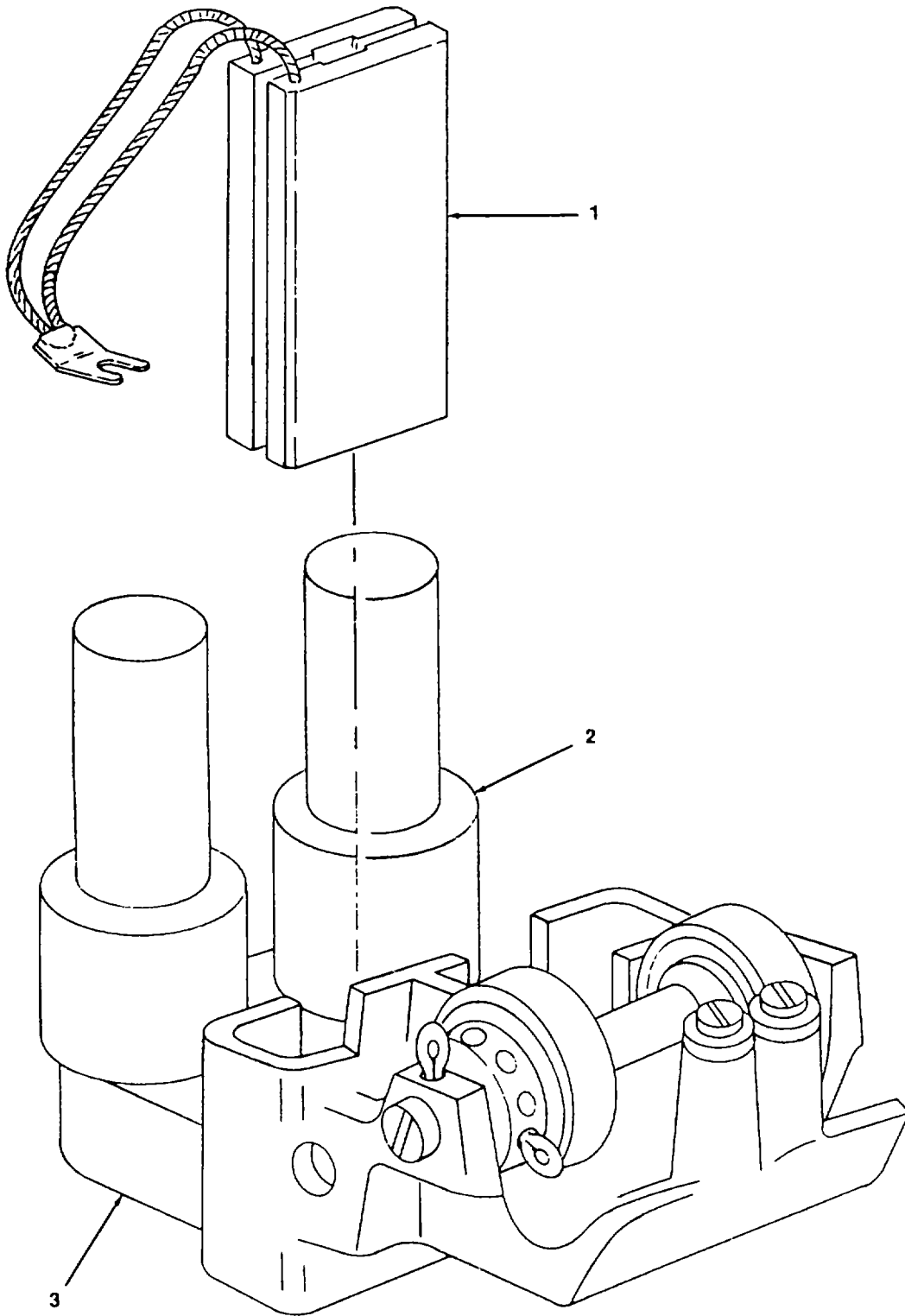


Figure 154. Brushes, Carbon, and Holder.

4834 154

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 21 TRACTION MOTORS GROUP	
1	24446	8820265	FIG. 154 BRUSHES AND BRUSH HOLDER TRACTION MOTOR	32
2			BRUSH, ELECTRICAL CONTACT W/PIGTAIL AND TERMINAL	2
3	24446	6734766G1	INSULATOR HOLDER, ELECTRICAL CONTACT W/INSULATED STUD AND PRESSURE ARMS	16
			END OF FIGURE	

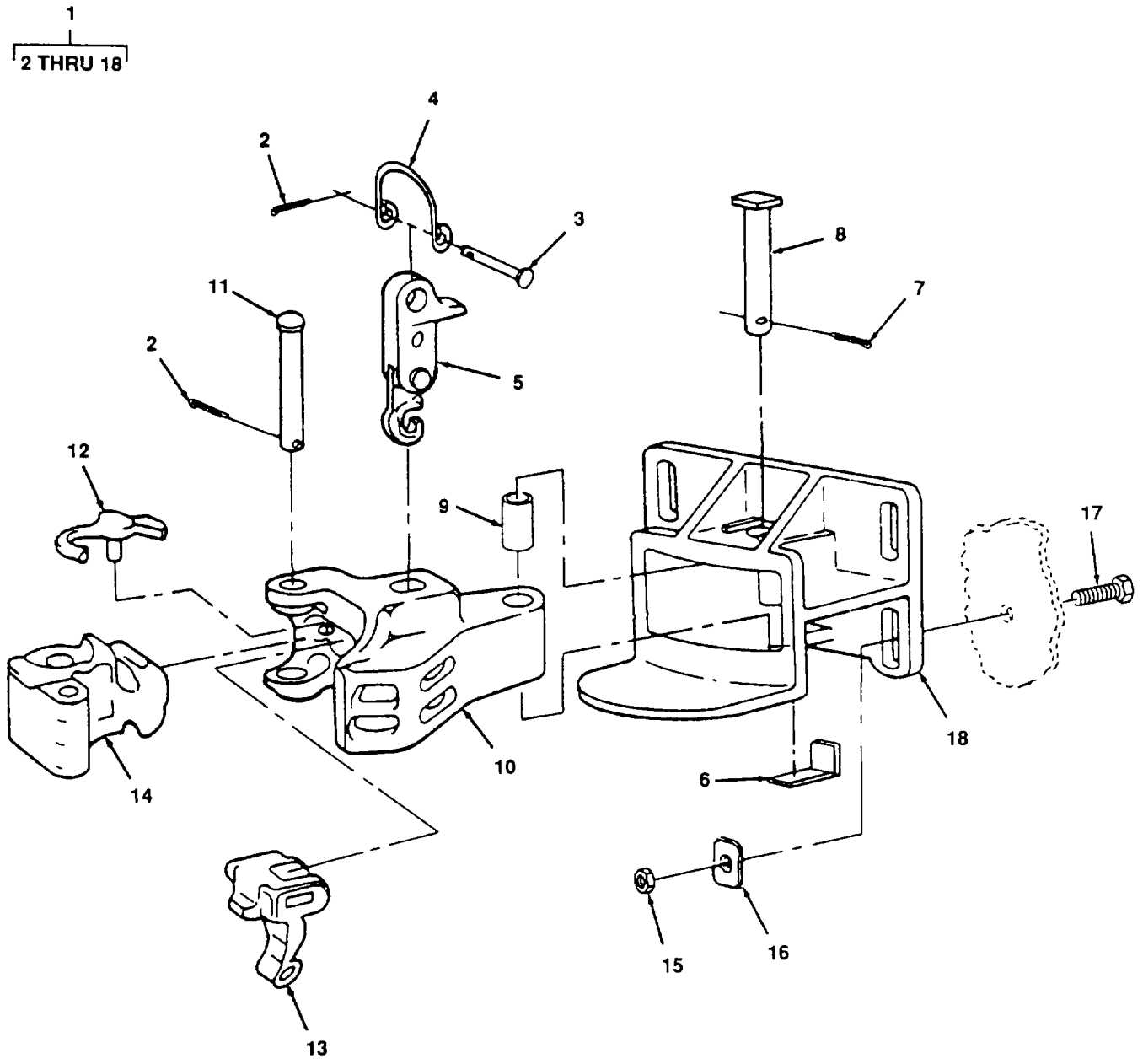


Figure 155. Couplers

## SECTION II

TM 55-2210-224-24P

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 22 DRAFT GEAR GROUP	
			FIG. 155 COUPLERS	
1	24446	8825114	COUPLER, RAILWAY, AUTOMATIC	2
2	96906		PIN, COTTER 1/4 IN DIA X 2 IN LONG (NSN 5315-00-209-7273)	2
3			PIN, HEADED, STRAIGHT UNCOUPLER CLEVIS, 3/4 IN DIA X 2 1/2 IN LONG	2
4			LOOP, UNCOUPLER CLEVIS	2
5	24446	145X52	LIFTER, LOCK	1
6			FLANGE, TOGGLE PIN LOCK	2
7	96906		PIN, COTTER 3/8 IN DIA X 3 IN LONG (NSN 5315-00-846-4297)	2
8	24446	279387	PIN, TOGGLE, EYE COLLAR (NSN 5315-417-5007)	
9	24446	145X47	BUSHING, COUPLER (NSN 3120-417-4383)	2
10	24446	9962572P1	COUPLER, POCKET (NSN 2240-00-127-9035)	2
11	24446	145X49	PIN, STRAIGHT, HEADED KNUCKLE	2
12	76663	E30	THROWER, AUTOMATIC COUPLER	2
13	76663	E40	LOCK, COUPLER (NSN 2240-161-2236)	2
14	24446	145X48	KNUCKLE	2
15	96906	MS51967-33	NUT, HEX 1 1/8-7 UNC	8
16			WASHER, PLATE	8
17	96906	MS90725-264	SCREW, HEX-HEAD 1 1/8-7 UNC X 6 IN LONG	8
18			YOKE, SUPPORT	1
			END OF FIGURE	

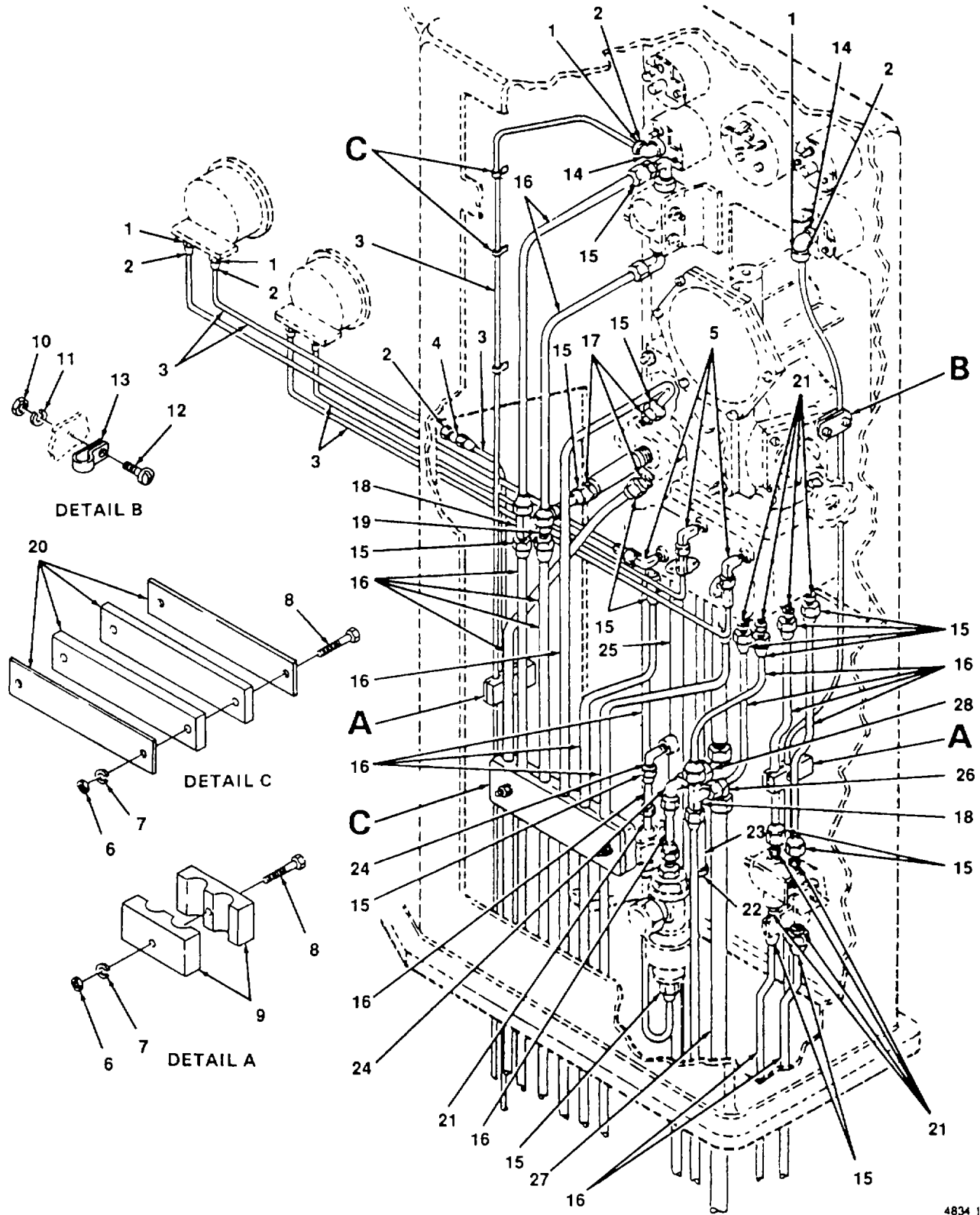


Figure 156. Control Stand Piping.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 156 CONTROL STAND PIPING	
1	96906	MS51500-B4	ADAPTER, 1/8 TO 1/4 IN	6
2	96906	MS35872-2	NUT, TUBING, 1/4 IN	6
3	04741	IBC9350	TUBING, COPPER, 1/4 IN	V
4	30327	642F1-4	UNION, 1/4 IN	1
5	96906	MS51500-B4-4	ADAPTER, 90 DEGREE, 1/4 IN	3
6	96906	MS51967-03	NUT, HEX, 1/4 IN	5
7	96906	MS35338-44	WASHER, LOCK, 1/4 IN.	5
8	96906	MS90725-13	SCREW, HEX, 1/4 X 1 3/4 IN.	5
9	97403	13228E2150-33	CLAMP, TUBING, DOUBLE	3
10	96906	MS35649-202	NUT, HEX #10	3
11	96906	MS35338-43	WASHER, LOCK #10	3
12	96906	MS35206-263	SCREW, #10, 1/2 IN. LONG	3
13	97403	MS21333-67	CLAMP, TUBE, 1/4 IN.	7
14	72423	1202-020	ELBOW, PIPE, 1/8 IN.	2
15	96906	MS35872-4	NUT, TUBING, 1/2 IN	27
16	95535	55229	TUBING, COPPER	V
17	96906	MS51500-B8-4	ADAPTER, 1/4 TO 1/2 IN	3
18	96906	MS49008-3	TEE, TUBE, 1/2 IN	2
19	30327	642F1-2	UNION, 1/2 IN	1
20	97403	13228E2150-29	CLAMP, TUBING	1
21	96906	MS51500-B6-8	ADAPTER, 3/8 TO 1/2 IN	13
22	72423	1245-060	CAP, PIPE, 3/8 IN	1
23	72423	ASTM-A120	PIPE, 3/8 IN.	V
24	96906	MS51504-B8-8	ELBOW	4
25	72423	ASTM-A120	PIPE, 1 IN	V
26	72423	1221-140	TEE, PIPE, 3/4 IN.	1
27	72423	ASTM-A120	PIPE, 3/4	V
28	72423	2071-149	REDUCER, 3/4 TO 1/2 IN	1
			END OF FIGURE	

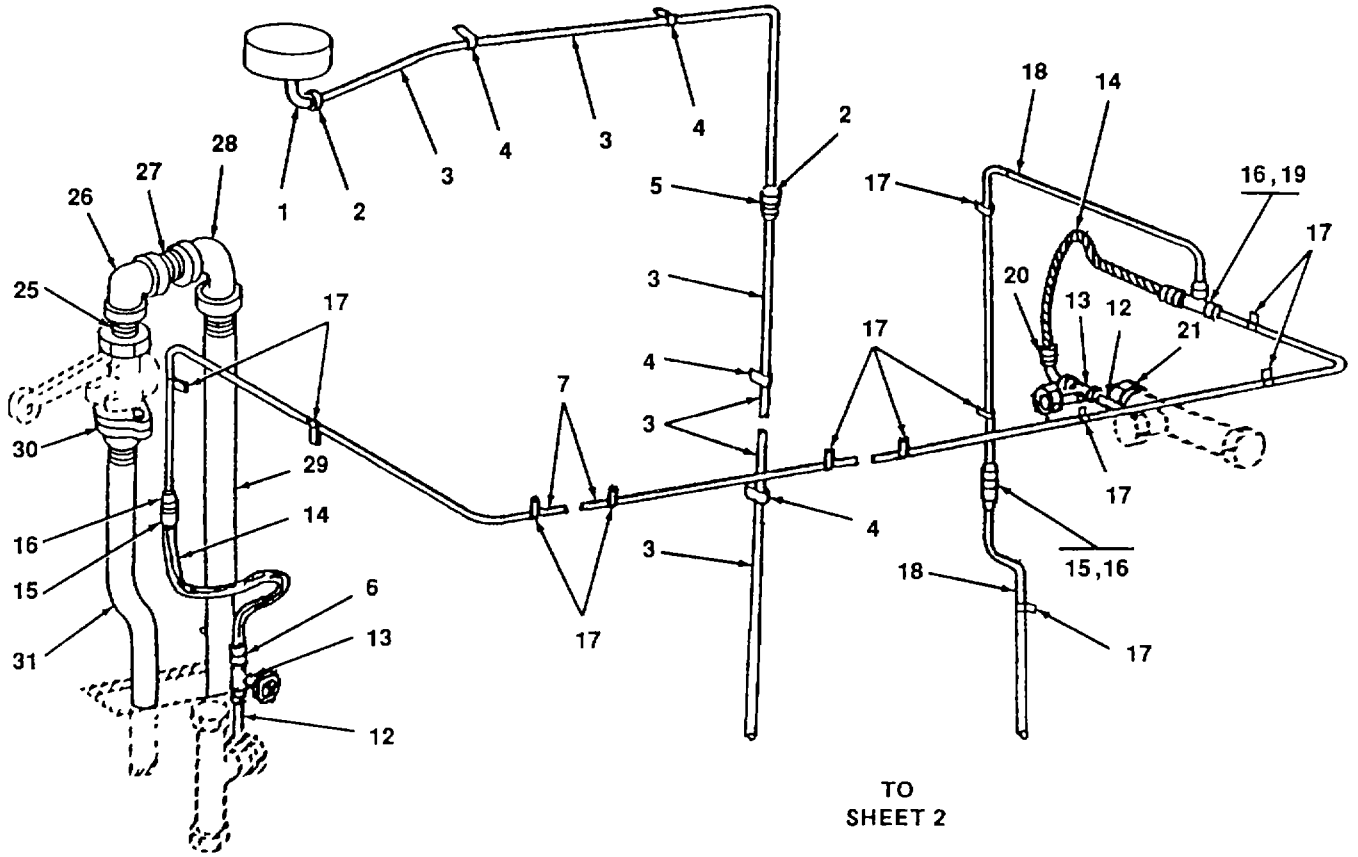
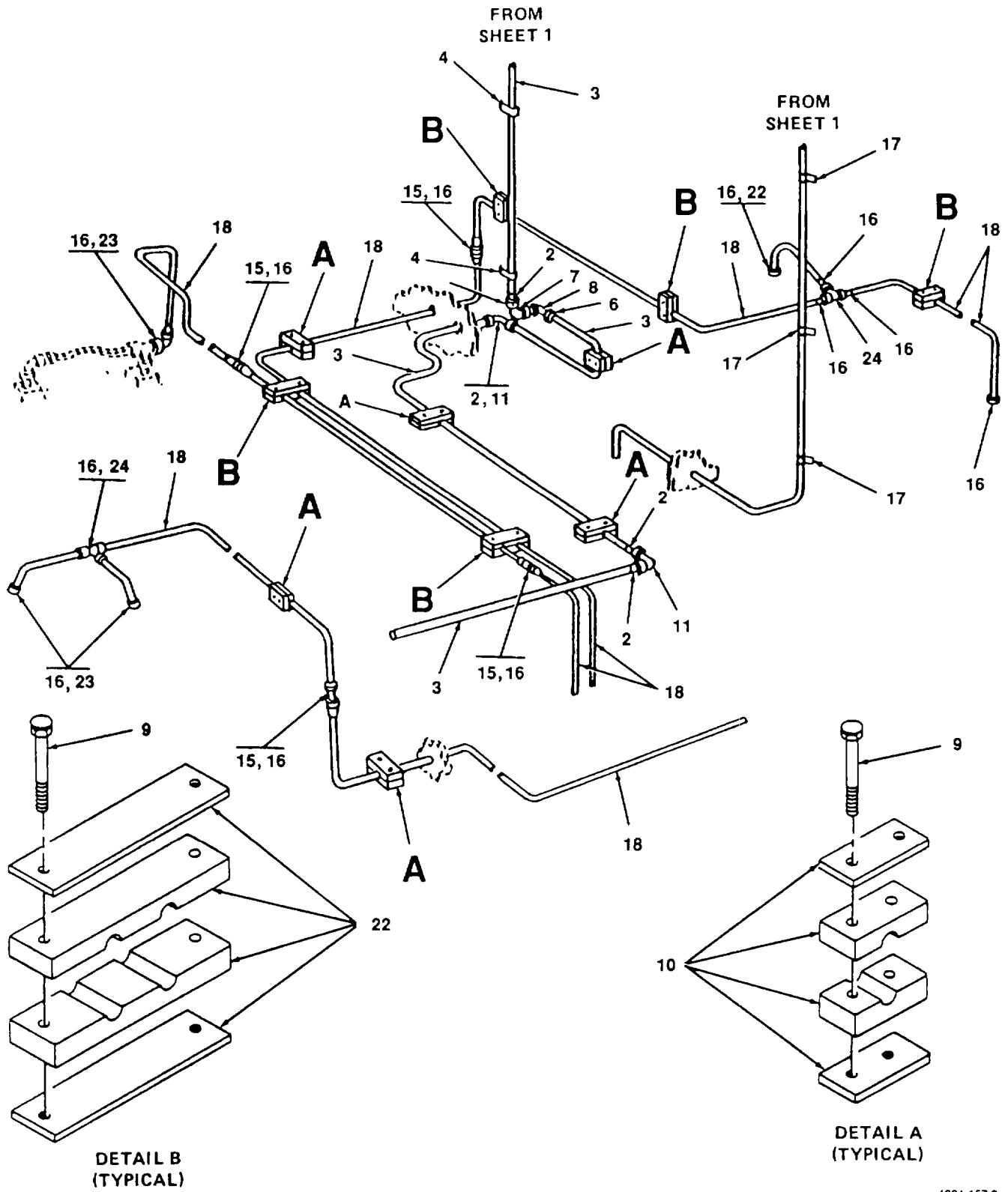


Figure 157. Piping, Cab Air (Sheet 1 of 2)

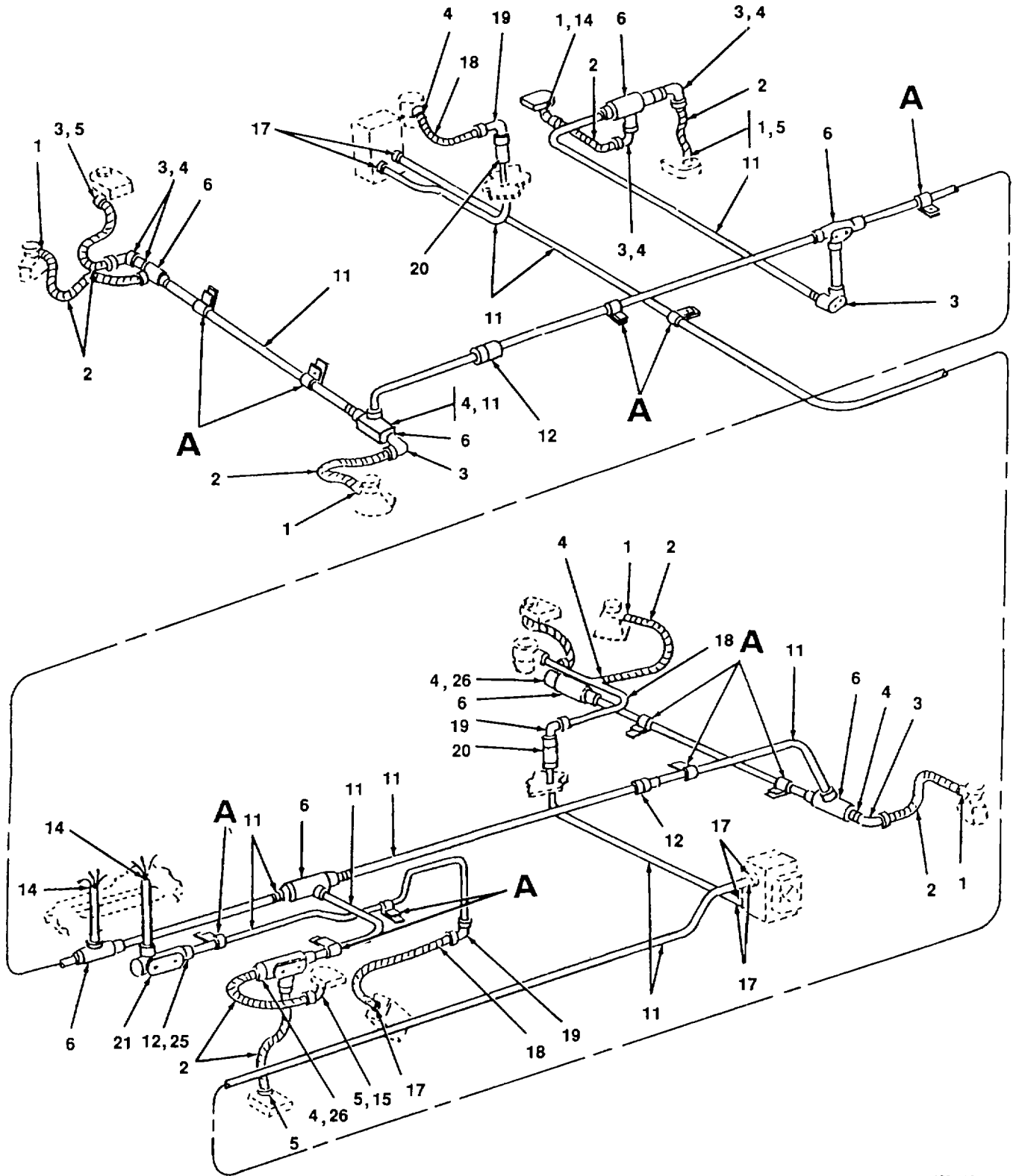


4834 157 2

Figure 157. Piping, Cab Air (Sheet 2 of 2).



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 157 CAB AIR PIPING	
1	96906	MS51504-B8-8	ELBOW, 90 DEGREE, PIPE TO TUBE, 1/2 IN	1
2	96906	MS35872-48	NUT, FLARE, 1/2 IN	9
3	95535	55229	TUBING, COPPER, 1/2 IN.	V
4	96906	MS21333-71	CLAMP, TUBING, 1/2 IN.	6
5	95535	642F1-2	COUPLING, TUBING	1
6	96906	MS51500-B8	ADAPTER, STRAIGHT, 3/8 TO 1/2 IN.	1
7	72423	1001-060	ELBOW, PIPE, 3/8 IN	1
8	72423	1003-060	ELBOW, STREET, 3/8	1
9	96906	MS90725-10	SCREW, HEX, 1/4 X1 1/2 IN.	22
10	97403	13228E2153-16	CLAMP TUBE, SINGLE, 1/2 IN.	6
11	96906	MS51050-B8	ELBOW, FLARE	2
12	96906	MS51873-17	NIPPLE, PIPE, 1/2 X 6 IN	2
13	96906		VALVE, GATE, 1/4 IN (NSN 4820-00-289-2143)	2
14	96906		HOSE, W/ADAPTER (NSN 4720-00-767-4273)	2
15	30327	642F1-4	UNION, TUBING, 1/4 IN.	5
16	96906	MS35872-2B	NUT, FLARE	19
17	96906	MS21333-67	CLAMP, TUBING, 1/4 IN	15
18	04741	IBC9350	TUBING, COPPER, 1/4 IN	V
19	13174	651-F-04X04	TEE, RUN, 1/8 TO 1/4 IN	1
20	96906	MS51504-B4	ADAPTER, ELBOW, 1/8 TO 1/4 IN	1
21	96906	MS51953-13	NIPPLE, PIPE, 1/4 X4 IN	1
22	97403	13228E2153-24	CLAMP, TUBE, DOUBLE, 1/4 IN	6
23	96906	MS51504-B4-4	ELBOW, 90 DEGREE, PIPE TO TUBE, 1/4 IN	5
24	96906	MS49008-1	TEE, TUBING, 1/4 IN.	2
25	96906	MS51873-14B8	NIPPLE, CLOSE	1
26	72423	1201-299	ELBOW, REDUCING PIPE, 1 1/2 TO 1 1/4 IN	1
27	96906	MS51673-169B	NIPPLE, CLOSE, 1 1/2 IN.	1
28	72423	1201-300	ELBOW, PIPE, 1 1/2 IN.	1
29	72423	ASTM-A120	PIPE, SCHED 80, 1 1/2 IN	V
30	82722	565262	FLANGE, 1 1/4 IN	1
31	72423	ASTM-A120	PIPE, SCHED 80, 1 1/4 IN	1
			END OF FIGURE	



4834-158 1

Figure 158. Electrical Conduit (Sheet 1 of 3)

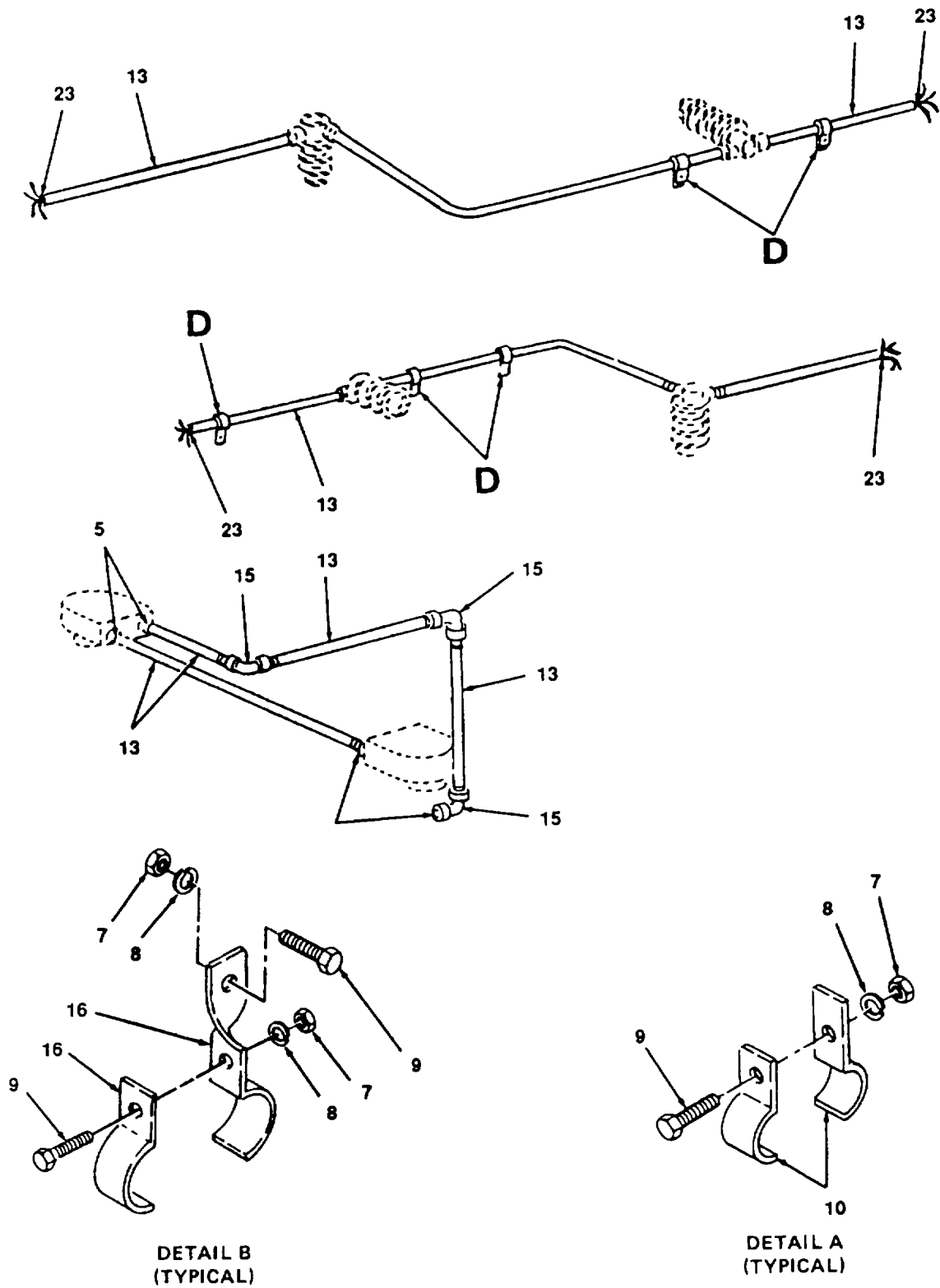


Figure 158. Electrical Conduit (Sheet 2 of 3)

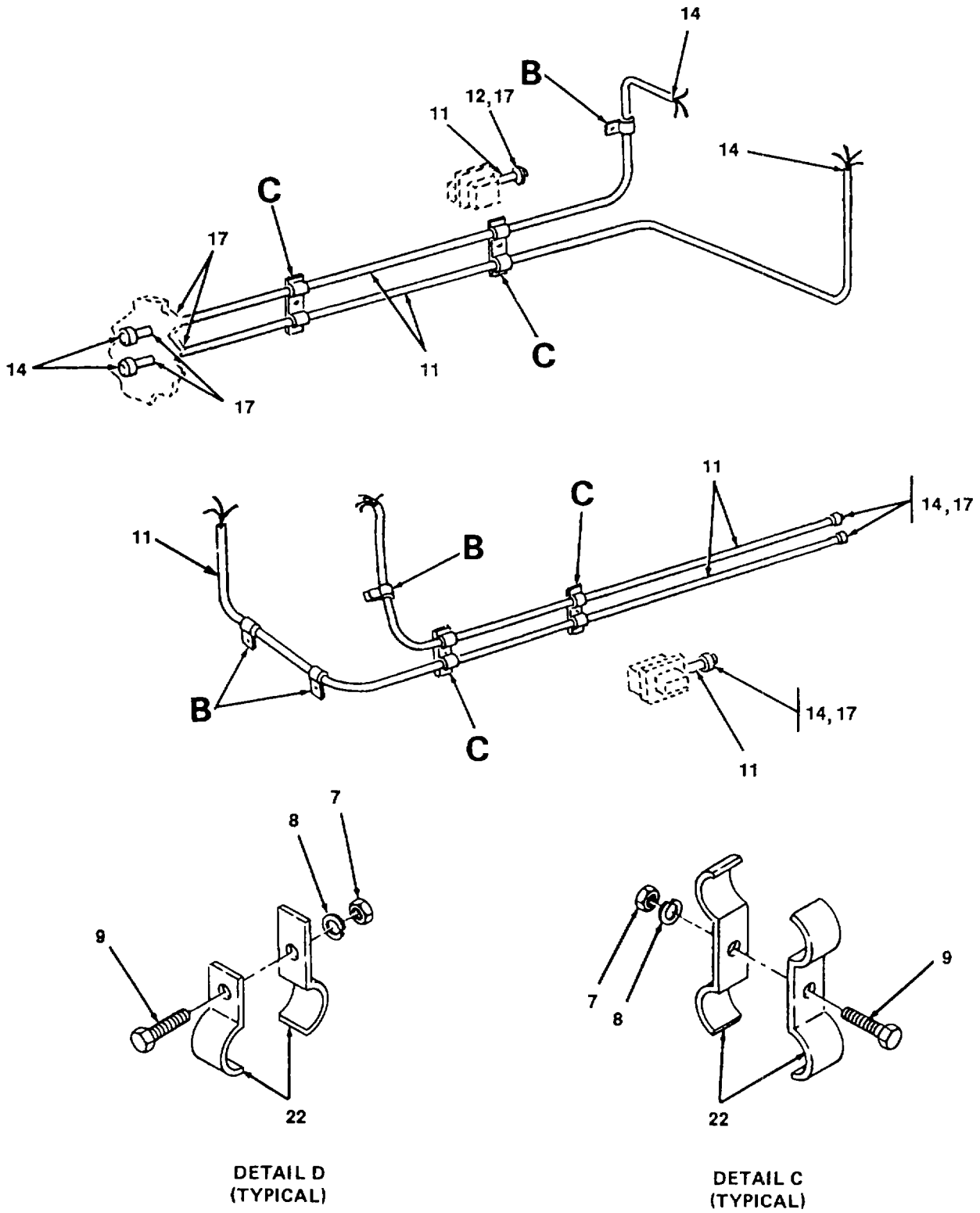


Figure 158. Electrical Conduit (Sheet 3 of 3)

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 158 ELECTRICAL CONDUIT	
1	06865	5352	CONNECTOR, LIQUID TIGHT, STRAIGHT, 1/2	8
2	09641	LA11	CONDUIT, FLEXIBLE, LIQUID TIGHT, 1/2 IN	V
3	06865	5352	CONNECTOR, LIQUID TIGHT, 90 DEGREE, 1/2 IN	8
4	06865	601	REDUCER, 3/4 X 1/2 IN	8
5	06865	141	NUT, CONDUIT, 1/2 IN	11
6	15235	T27	BODY, CONDUIT, ELECTRICAL, 3/4 IN	7
7	96906	MS51967-09	NUT, HEX, 3/8	25
8	96906	MS35338-6	WASHER, LOCK, 3/8	25
9	96906	MS90725-62	SCREW, HEX, 1/4 X 1 1/4 IN	25
10	97403	13228E2147-43	CLAMP, 3/4 IN	7
11	81348	8113581	CONDUIT, RIGID, 3/4 IN	V
12	15235	LN205	UNION, CONDUIT, 3/4 IN.	3
13	91348	8116953	CONDUIT, RIGID, 1/2 IN.	V
14	06865	223	BUSHING, INSULATING, 3/4 IN	12
15	06865	4290	ELBOW, CONDUIT, 1/2 IN	3
16	97403	13228E2147-48	CLAMPING, CONDUIT, 3/4 IN	19
17	06865	142	NUT, CONDUIT, 3/4 IN	19
18	09641	LA12	CONDUIT, FLEXIBLE, LIQUID TIGHT	V
19	06865	5353	CONNECTOR, LIQUID TIGHT, 90 DEGREES	4
20	96906		COUPLING, CONDUIT (NSN 5975-00-152-1129)	3
21	15235	LL27	BODY, CONDUIT, ELECTRICAL	1
22	97403	13228E2147-42	CLAMP, DOUBLE CONDUIT	4
23	06865	222	BUSHING, INSULATING, 1/2 IN	4
24	97403	13228E2147-44	CLAMP, CONDUIT, 1/2 IN	4
25			NIPPLE, CLOSE, 3/4	1
26	06865	5342	CONNECTOR, LIQUID TIGHT, 1/2 IN	2
			END OF FIGURE	

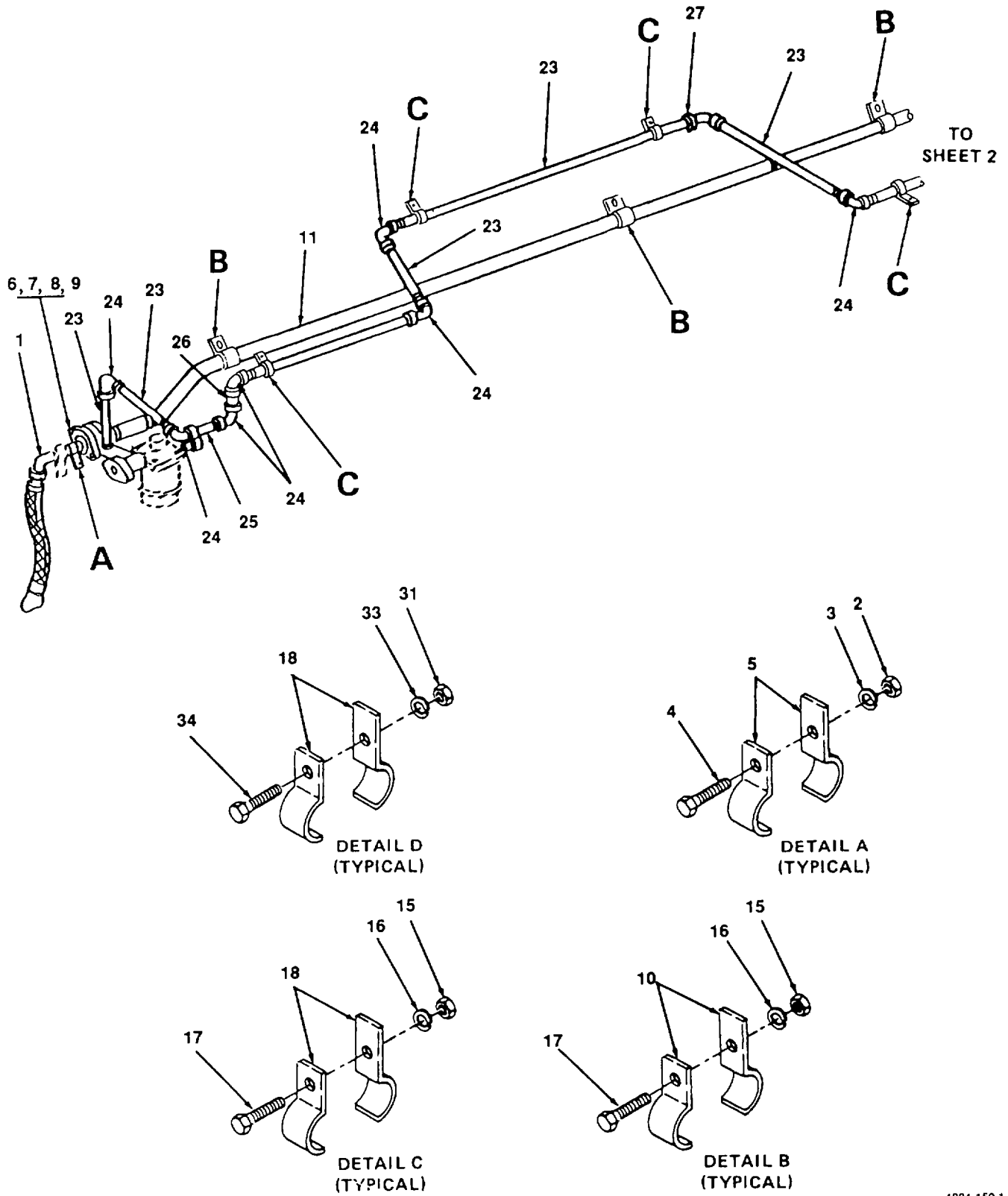


Figure 159. Brake Pipe and Bell Piping (Sheet 1 of 2).

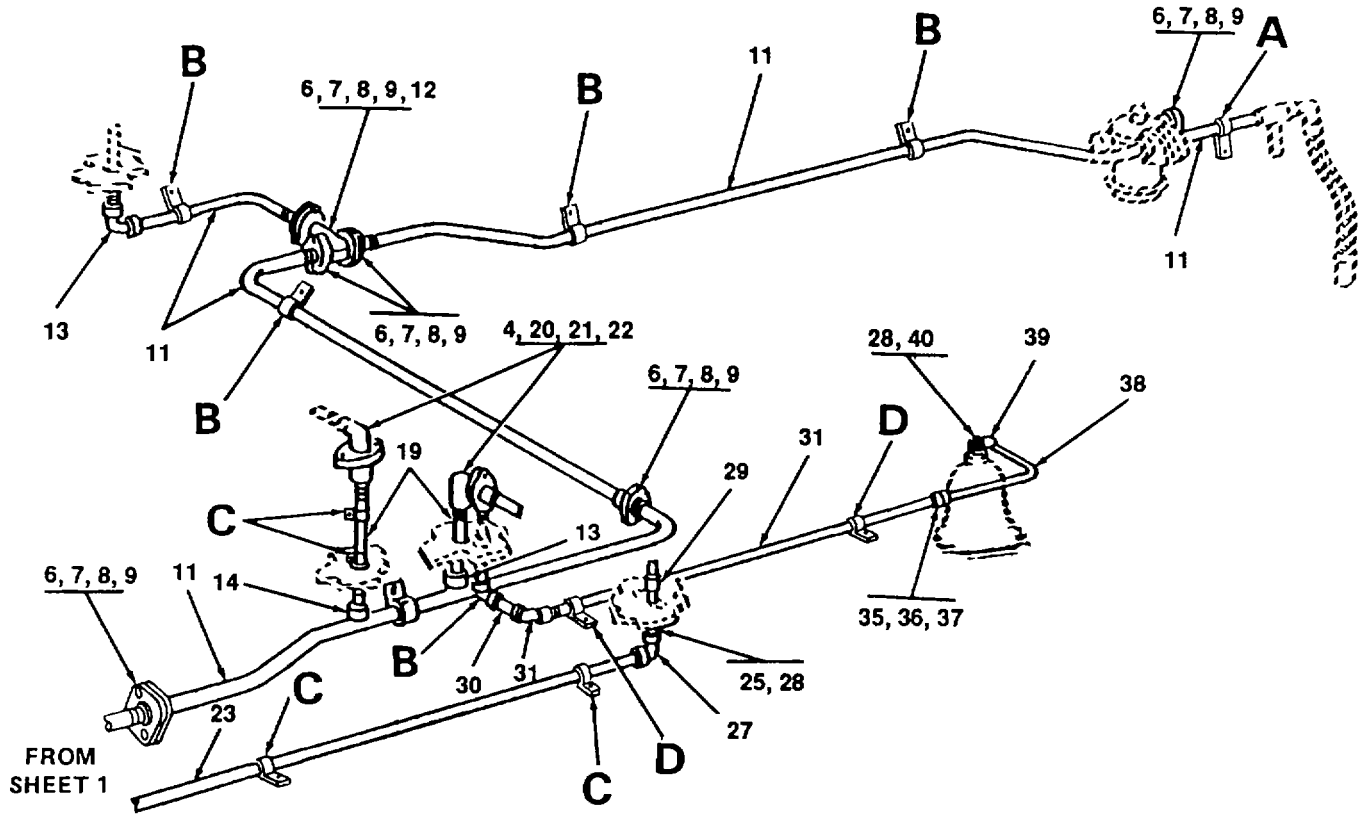


Figure 159. Brake Pipe and Bell Piping (Sheet 2 of 2).

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 159 BRAKE AND BELL PIPING	
1	72423	1204-250	ELBOW, STREET, 45 DEGREE	2
2	96906	MS51967-17	NUT, HEX, UNC-28, 1/2 IN	10
3	96906	MS35338-48	WASHER, LOCK, 1/2 IN	10
4	96906	MS90725-115	SCREW, HEX, UNC-2A, 1/2 X2 IN.	14
5	97403	13228E2144-44	CLAMP	2
6	96906	MS90725-166	SCREW, HEX UNC-2A, 5/8 X 2 1/2 IN	4
7	96906	MS90725-174	SCREW, HEX, 5/8 X 4 1/2 IN	10
8	96906	94790	GASKET, FITTING, 1 1/4 IN	11
9	82722	565262	FITTING, STRAIGHT, WELDED	11
10	97403	13228E2144-2	CLAMP, ANGLE, PIPE	8
11	72423	ASTM-A120	PIPE, BLACK, SCHED 80,1 1/4 IN	V
12	82722	506843	TEE, PIPE, 11/4 IN.	1
13	72423	1433-250	ELBOW, UNION, 90 DEGREE, 300 PSI	1
14	72423	1240-200	COUPLING, PIPE, 1 IN , THD, BLACK, WELDED, 300 PSI	2
15	96906	MS51967-8	NUT, HEX, UNC-2B, 3/8	6
16	96906	MS35338-46	WASHER, LOCK, 3/8	6
17	96906	MS90725-62	SCREW, CAP, UNC-2A, 3/8 X 11/4 IN	6
18	97403	13228E21RR-29	CLAMP, PIPE, 1 IN	6
19	72423	AMST-A120	PIPE, BLACK, SCHED. 80, 1 IN	V
20	96906	MS51922-33	NUT, SELF-LOCKING, UNC-2B, 1/2 IN.	4
21	82722	93986	GASKET, FITTING	2
22	82722	578322	FITTING, 90 DEGREE, WELDED	2
23	72423	ASTM-A120	PIPE, BLACK, SCHED 80, 3/8	V
24	72423	1201-060	ELBOW, 90 DEGREE THD, 300 PSI, 3/8	8
25	96906	MS51873-63B	NIPPLE, BLACK, 3/8 X 6 IN	2
26	96906	MS51873-58B	NIPPLE, BLACK, 3/8 X 3 1/2 IN	1
27	72423	1643-060	ELBOW, UNION, 3/8	2
28	72434	2071-099	REDUCER, PIPE, 1/2 TO 3/8 IN	1
29	72434	1240-100	COUPLER, 1/2 IN	1
30	72423	1201-040	ELBOW, 90 DEGREE, PIPE, 1/4 IN.	2
31	92423	ASTM-A120	PIPE, BLACK, SCHED 80,1/4 IN	V
32	96906	MS51967-03	NUT, HEX, 1/4 IN.	2
33	96906	MS35338-44	WASHER, LOCK	2



(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 159 BRAKE AND BELL PIPING (CONT)	
34	96906	MS90725-3	SCREW, HEX HEAD, 1/4 X 1 IN	2
35	39428	MS35869-22	ADAPTER, HALF, 1/4 IN PIPE TO 1/4 IN TUBE	1
36	39428		NUT, FLARE, TUBE, 1/4 IN	2
37	96906	MS39233-5	COUPLER, PT	1
38	04741	IBC9350	TUBING, COPPER, 1/4 IN	V
39	96906	MS51504-B4-4	ELBOW, 90 DEGREE, 1/4 IN PIPE TO 1/4 IN TUBE	2
40	72423	2071-059	BUSHING, REDUCER, 3/8 TO 1/4 IN	1
			END OF FIGURE	

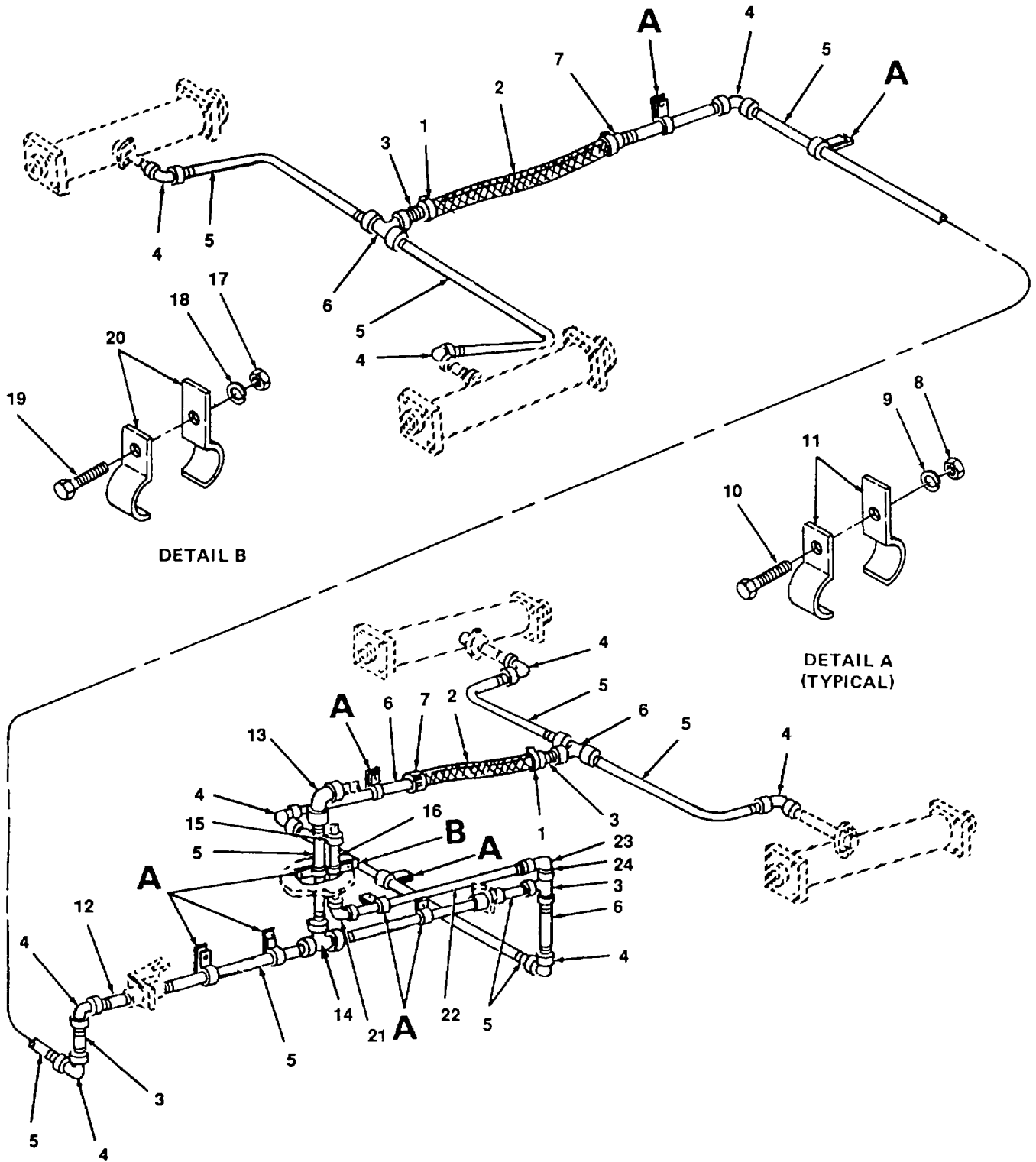
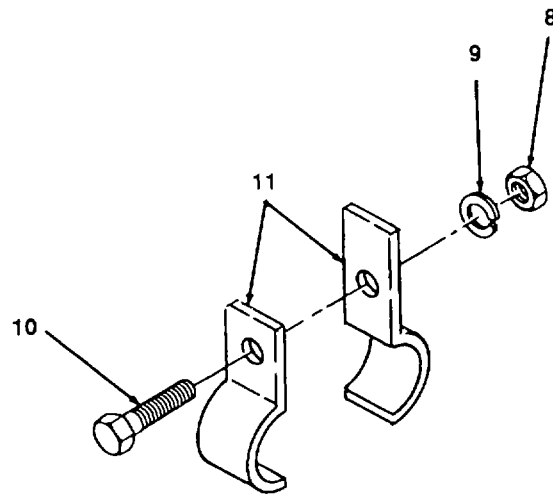
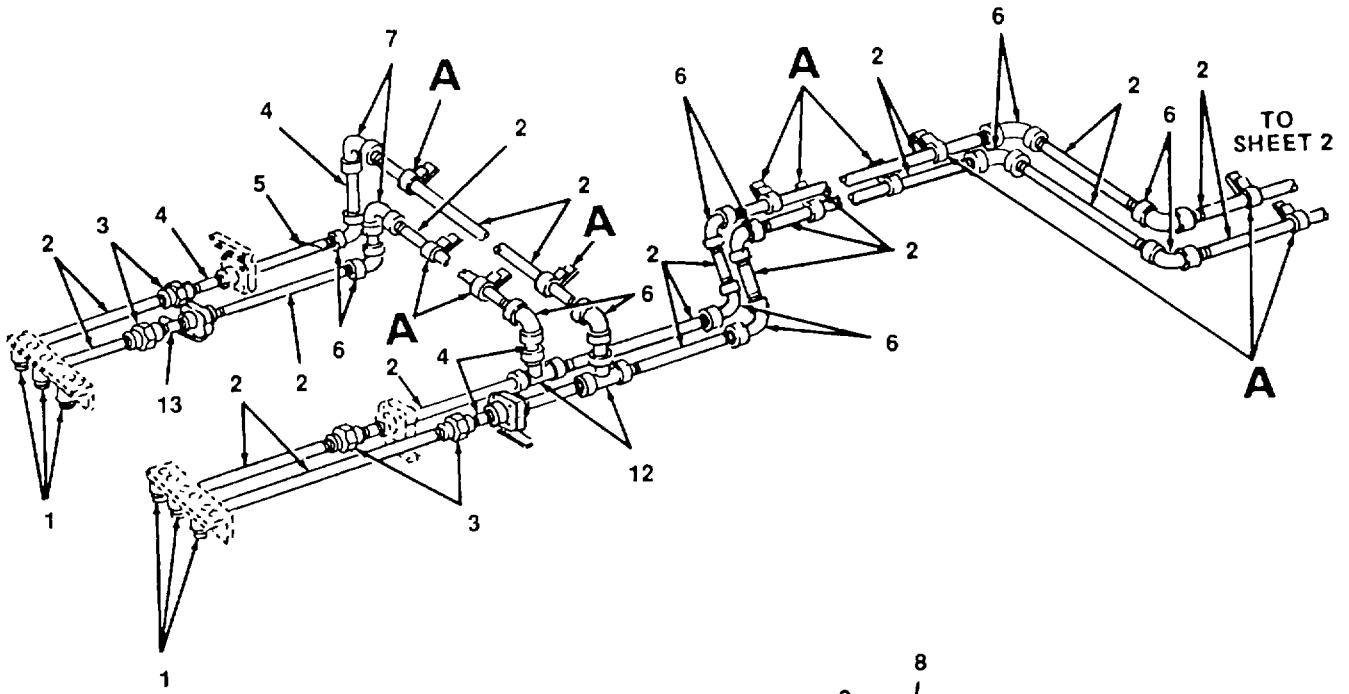


Figure 160. Brake Cylinder Piping.

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 160 BRAKE CYLINDER PIPING	
1	96906		CLAMP, HOSE, #	4
2	96906		HOSE, RUBBER, BRAKE (NSN 4720-00-590-9028)	2
3	96906	MS51873-105	NIPPLE, PIPE, 3/4 X 4 IN	6
4	72423	1201-150	ELBOW, PIPE, 3/4 IN	9
5	72423	ASTM-120A	PIPE, BLACK, SCHED 80, 3/4 IN	V
6	72423	1221-150	TEE, PIPE, 3/4 IN	3
7	72423	1641-150	UNION	2
8	96906	MS51967-15	NUT, HEX, 1/2 IN.	8
9	96906	MS35338-48	WASHER, LOCK, 1/2 IN	8
10	96906	MS90725-133	SCREW, HEX, 1/2	8
11	97403	13228E2145-17	CLAMP, PIPE, 3/4 IN	2
12	96906	MS51873-103	NIPPLE, PIPE, 3/4 X 3 IN	1
13	72423	1643-150	ELBOW, UNIOIN, PIPE, 3/4 IN	1
14	72423	1647-150	TEE, UNION, FEMALE	1
15	72423	1240-060	COUPLING, PIPE, 3/8 IN.	1
16	96906	MS51873-59	NIPPLE, PIPE, 3/8 X 4 IN	1
17	96906	MS51967-03	NUT, HEX, 1/4 IN	2
18	96906	MS35338-44	WASHER, LOCK, 1/4 IN	2
19	96906	MS90725-8	SCREW, HEX, 1/4 X 1 IN	2
20	97403	13228E2145-21	CLAMP, PIPE, 3/8 IN	2
21	72423	1201-060	ELBOW, PIPE, 1/4 IN	1
22	72423	ASTM-A120	PIPE, BLACK, SCHED	V
23	96906	MS51873-59	NIPPLE, PIPE, 3/8 X 4 IN	1
24	72423	2071-148	BUSHING, REDUCER, PIPE, 3/4 TO 3/8 IN.	1
			END OF FIGURE	



DETAIL A

Figure 161. Actuating and Independent Piping (Sheet 1 of 2)

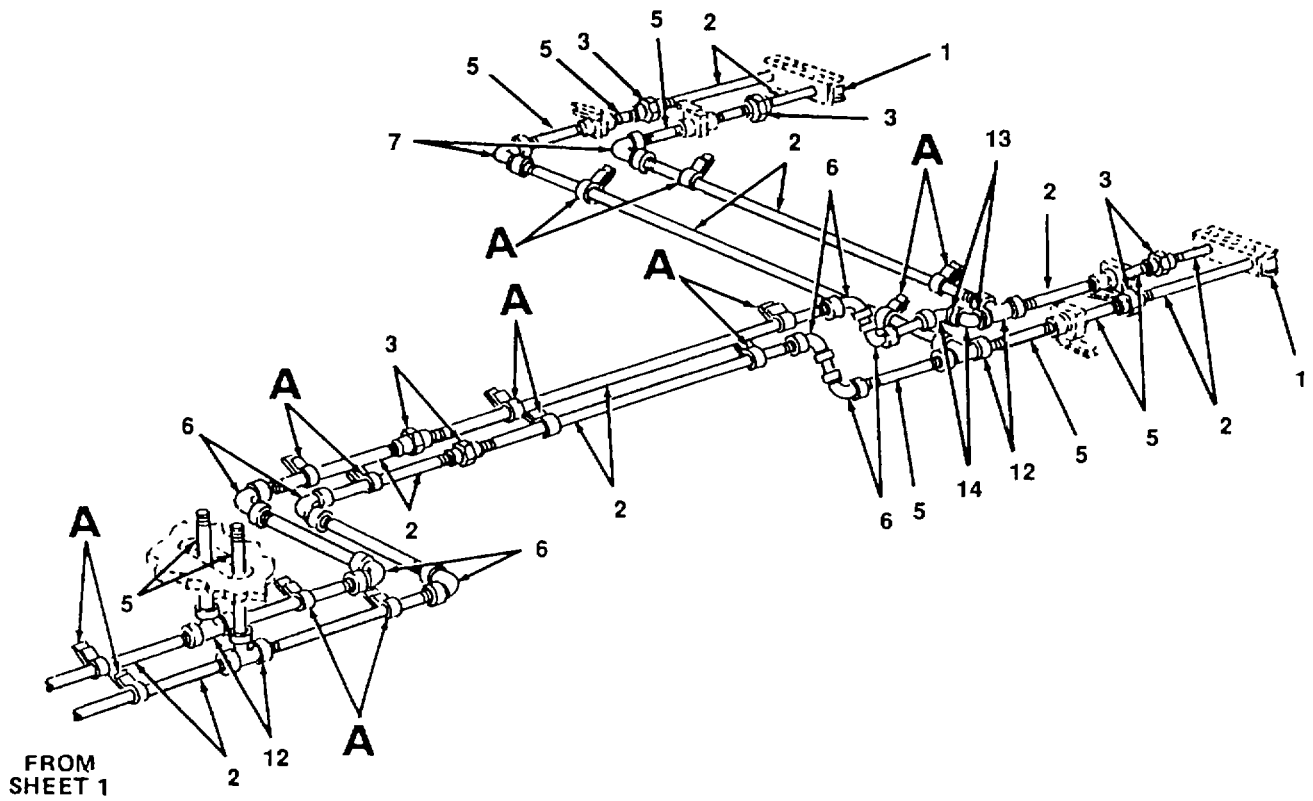


Figure 161. Actuating and Independent Piping (Sheet 2 of 2)

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 161 ACTUATING AND INDEPENDENT PIPING	
1	82722	98845	COUPLING, ANGLE BRACKET, 1/2 IN	8
2	81346	ASTM-120-84	PIPE, BLACK, SCHED. 80, 1/2 IN	V
3	72423	1641-100	UNION, 300 PSI, BLACK, 1/2 IN	10
4	96906	MS51873-78B	NIPPLE, BLACK, 1/2 X 2 IN.	9
5	96906	MS51837-86B	NIPPLE, BLACK, 1/2 X 6 IN.	10
6	72423	1201-100	ELBOW, 90 DEGREE, 1/2 IN	18
7	72423	1643-100	ELBOW, UNION, 90 DEGREE, 1/2 IN	6
8	96906	MS51967-14	NUT, HEX, 1/2 IN	24
9	96906	MS35338-48	WASHER, LOCK, 1/2 IN.	24
10	96906	MS90725-113	SCREW, HEX, 1/2 X 1 1/2 IN	24
11	97403	13228E2143-4	CLAMP, PIPE SINGLE, 1/2 IN	24
12	72423	1647-100	TEE, UNION, FEMALE RUN	6
13	96906	MS51873-73B	NIPPLE, BLACK, CLOSE, 1/2 IN	2
14	72423	1202-100	ELBOW, 45 DEGREE, BLACK, 1/2 IN	2
			END OF FIGURE	

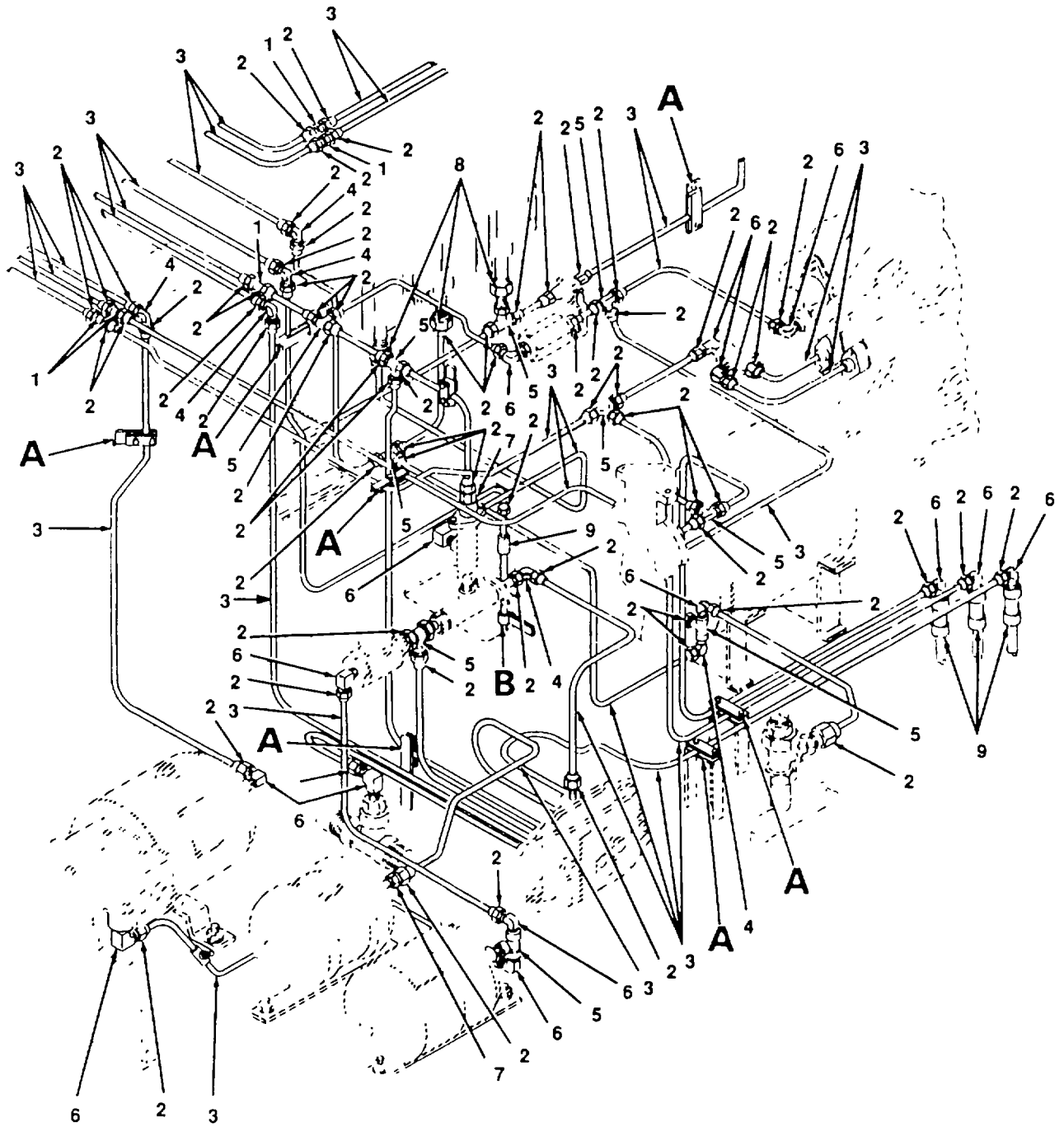
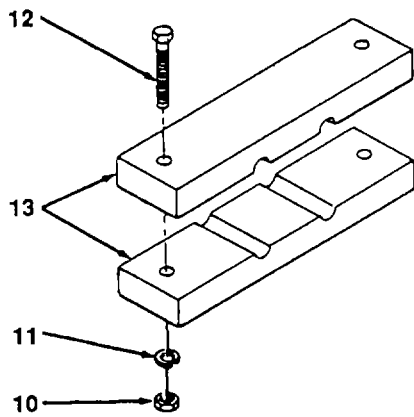
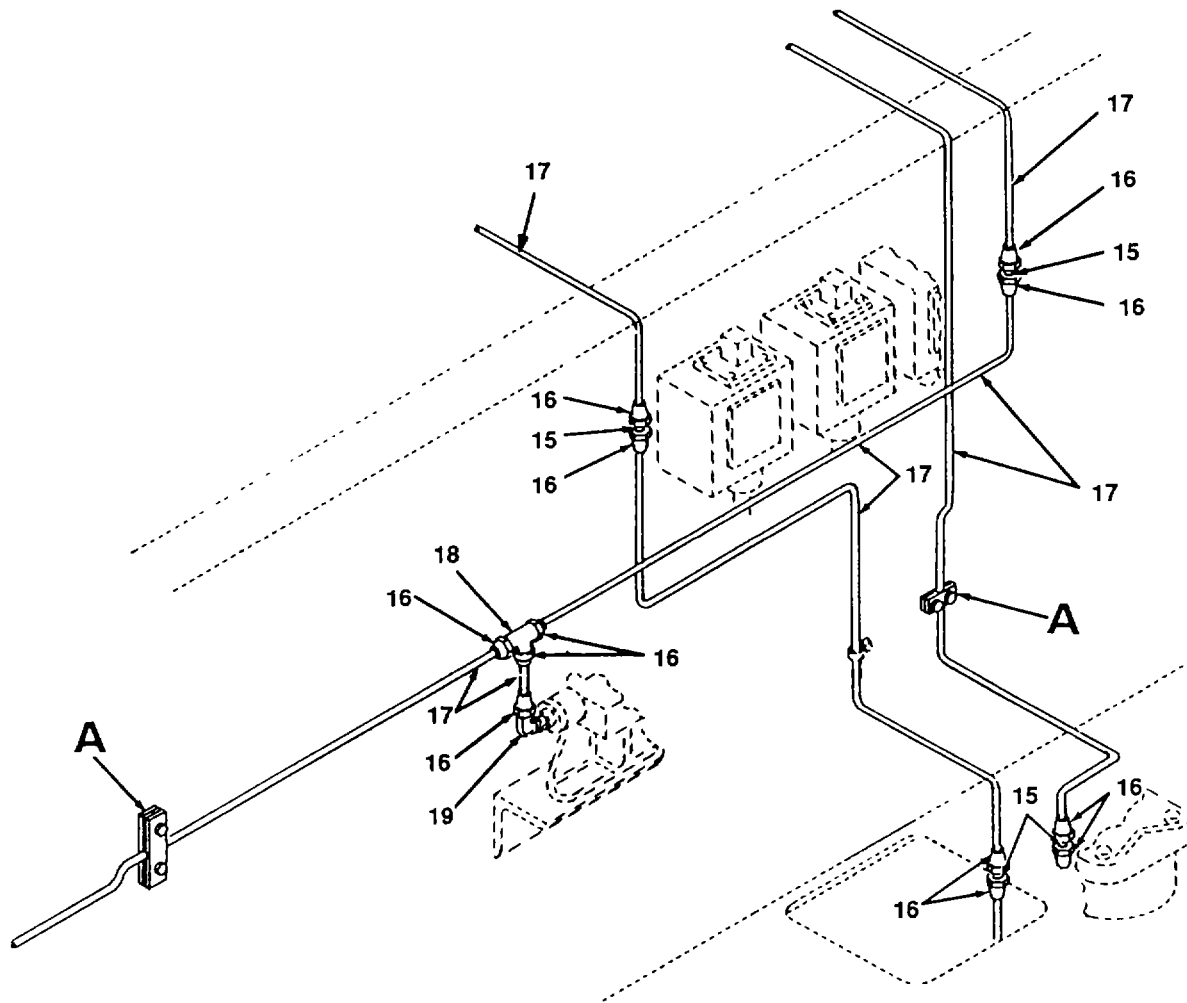
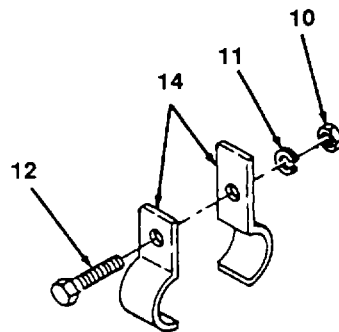


Figure 162. Brake Compartment Piping (Sheet 1 of 3)



DETAIL A  
(TYPICAL)



DETAIL B  
(TYPICAL)

Figure 162 Brake Compartment Piping (Sheet 2 of 3)



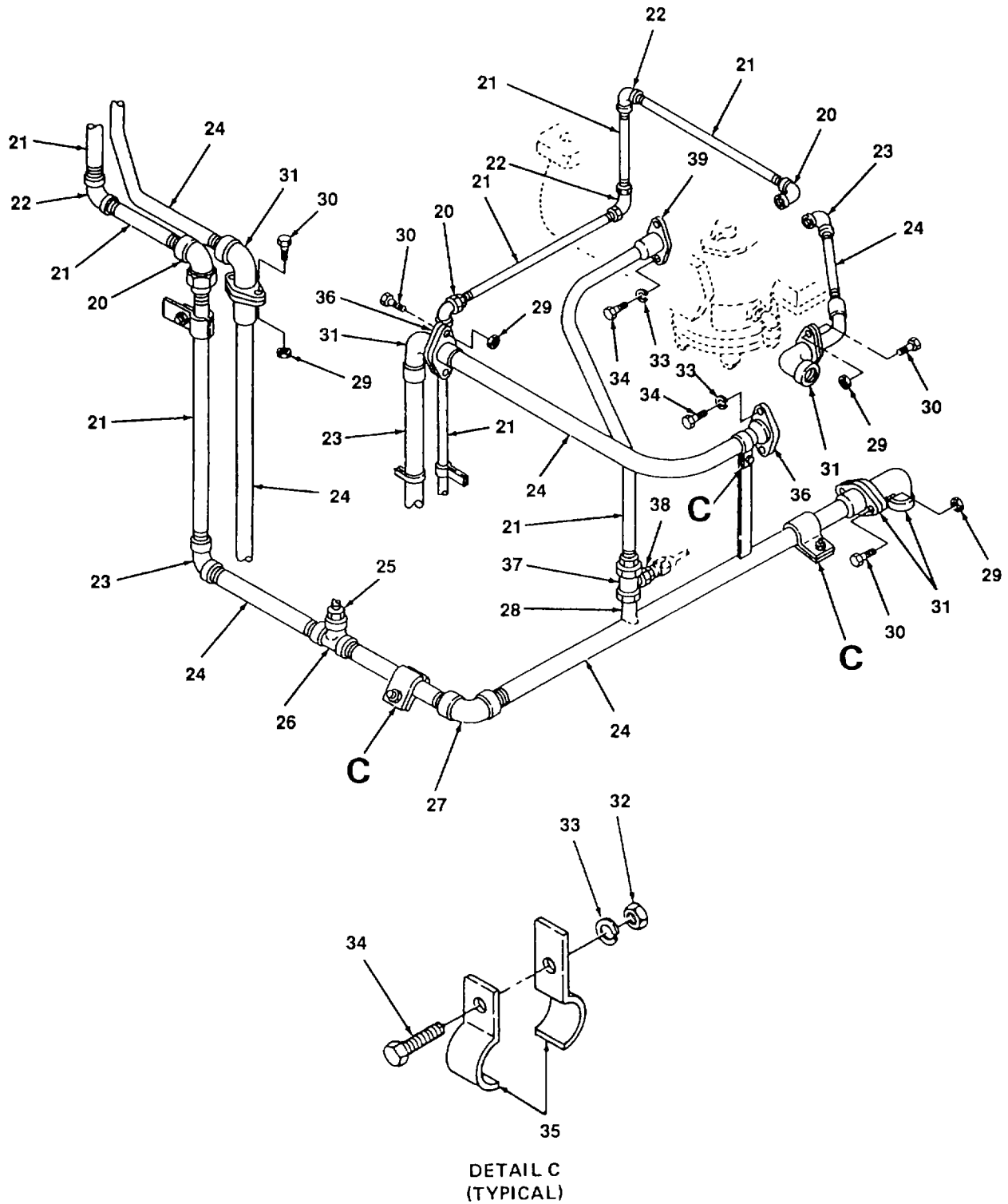


Figure 162. Brake Compartment Piping (Sheet 3 of 3)

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 162 BRAKE COMPARTMENT PIPING	
1	30327	642F1-2	COUPLING, FLARE TUBING, 1/2 IN, MALE-TO-MALE	3
2	96906	MS35872-4	NUT, FLARE, 1/2 IN	65
3	95535	55229	TUBING, COPPER, 1/2 IN	V
4	96906	MS51505-B8	ELBOW, FLARE TUBING, 1/2 IN	3
5	30327	44-F-08	TEE, FLARE TUBING	8
6	96906	MS51504-B8	ELBOW, PIPE-TO-TUBE, 3/8 X, 1/2 IN	13
7	96906	MS51500-B8	ADAPTER, PIPE-TO-TUBE, 3/8 X 1/2 IN	9
8	96906	MS51500-B8-4	ADAPTER, PIPE-TO-TUBE, 1/4 X 1/2 IN	4
9	72423	1240-100	COUPLING, PIPE, 1/2 IN	4
10	96906	MS51967-03	NUT, HEX, 1/4 IN	10
11	96906	MS35338-44	WASHER, LOCK, 1/4 IN	10
12	96906	MS90725-12	SCREW, HEX, 1/4 X1 1/2 IN	10
13	97403	13228E2149-71	CLAMP, TUBING, 1/2 OR 1/4 IN	8
14	97403	13228E2149-75	CLAMP, TUBING, 1/2 IN	4
15	30327	642F1-4	COUPLING, FLARE TUBE (MALE-TO-MALE)	2
16	30327	641F1-4	NUT, FLARE	8
17	04741	IBC9350	TUBING, COPPER, 1/4 IN	V
18	96906	MS490008-1	TEE, FLARE TUBE, 1/4 IN	1
19	96906	MS51304-B4-4	ELBOW, PIPE-TO-TUBE, 1/4 IN	1
20	72423	1643-150	ELBOW, UNION, 3/4 IN	3
21	72423	ASTM-A120	PIPE, BLACK, SCHED. 80, 3/4 IN	V
22	72423	1201-150	ELBOW, PIPE, 3/4	2
23	72423	1201-199	ELBOW, REDUCING, 1 TO 3/4 IN.	2
24	72423	ASTM-A120	PIPE, BLACK, SCHED 80, 1 IN.	V
25	72423	2071-198	BUSHING, REDUCING, 1 TO 1/2 IN.	1
26	72423	1221-200	TEE, PIPE, 1 IN	1
27	72423	1201-200	ELBOW, PIPE, 1 IN	1
28	96906	MS51873-102	NIPPLE, PIPE, 3/4 X 2 1/2 IN	1
29	96906	MS51922-33	NUT, LOCK, 1/2 IN.	8
30	96906	MS90725-115	SCREW, HEX, 1/2 X 2 IN	8
31	82722	578322	ELBOW, FLANGE PIPE, 1 IN	4
32	96906	MS51967-15	NUT, HEX, 1/2 IN	4

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			FIG. 162 BRAKE COMPARTMENT PIPING	
33	96906	MS35338-48	WASHER, LOCK, 1/2 IN.	46
34	96906	MS90725-113	SCREW, HEX, 1/2 X 1 1/2 IN.	8
35	97403	13228E2149-75-2	CLAMP, PIPE, 1 IN	4
36	82722	565259	FLANGE, PIPE, 1 IN.	2
37	96906	MS51500-88-8	TEE, UNION (UNION ONRUN) 3/4 IN	1
38	72423	2071-149	BUSHING, REDUCING, 1/2 TO 3/81N	1
39	82722	565256	FLANGE, PIPE, 3/4 IN	1
			END OF FIGURE	

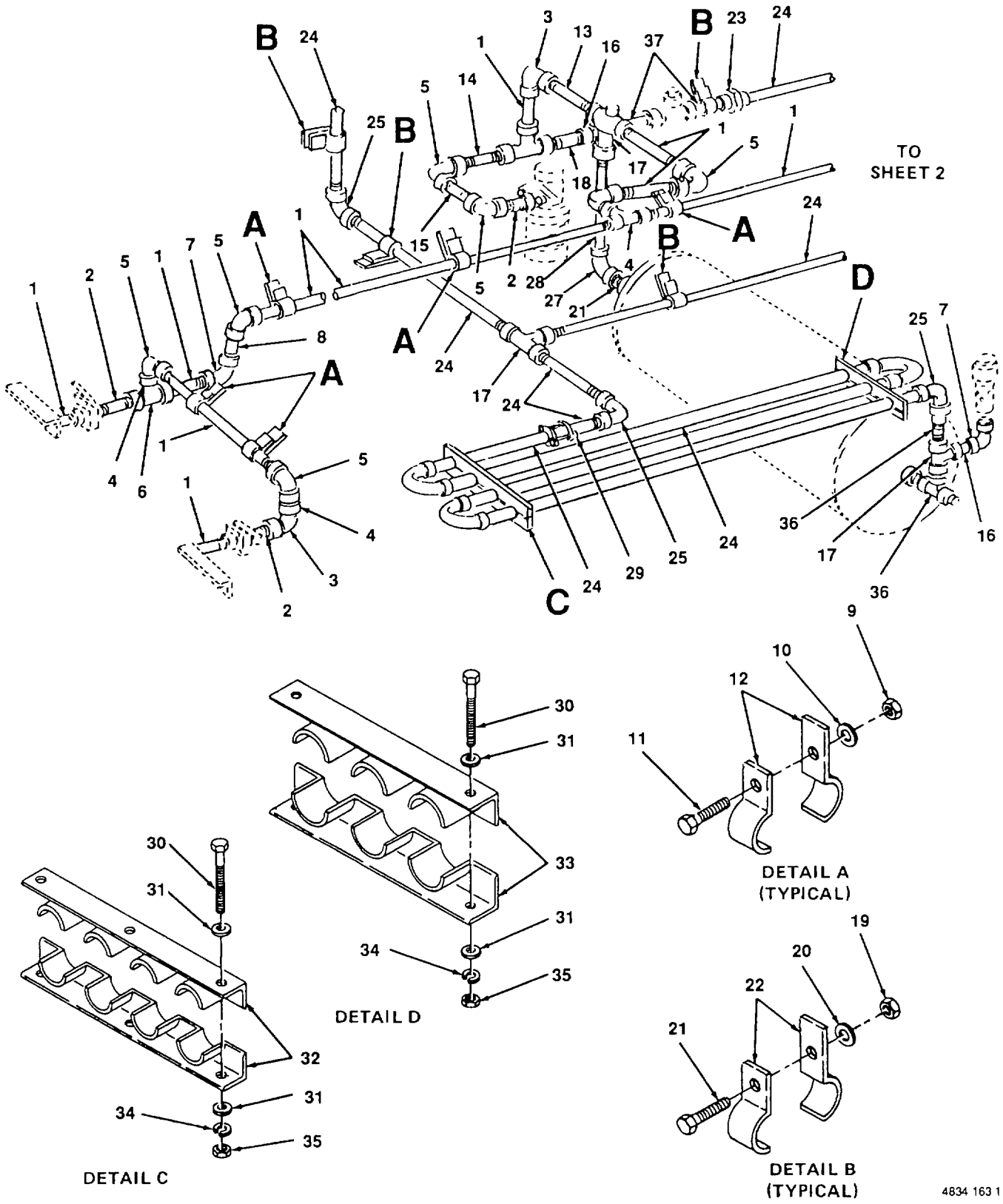


Figure 163. Main Air Piping (Sheet 1 of 2).

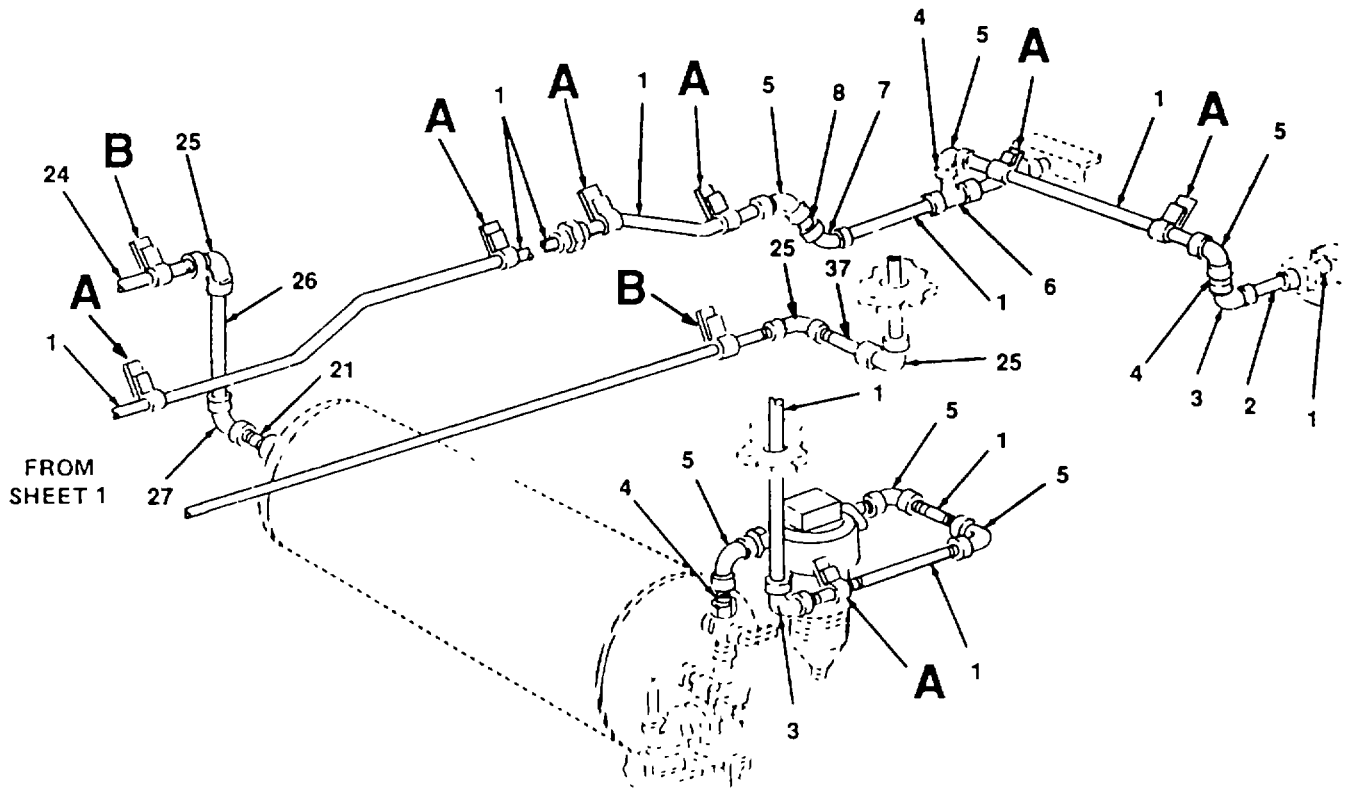


Figure 163. Main Air Piping (Sheet 2 of 2)

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
			GROUP 24 PIPING SYSTEMS	
			FIG. 163 MAIN AIR PIPING	
1	72423	ASTM-A120	PIPE, BLACK, SCHED 80, 1 IN	V
2	96906	MS51873-126B	NIPPLE, BLACK PIPE, 1 X3 IN	7
3	72423	1643-200	ELBOW, UNION, BLACK, 90 DEGREE	1
4	96906	MS51873-121-B	NIPPLE, BLACK PIPE, CLOSE, 1 IN	7
5	72423	1201-200	ELBOW, BLACK, 90 DEGREE, 1 IN	11
6	72423	1647-200	TEE, UNION, FEMALE RUN, 1 IN	4
7	72423	1203-200	ELBOW, STREET, BLACK, 90 DEGREE, 1 IN	4
8	96906	MS51873-130B	NIPPLE, BLACK PIPE, 1 X 5 IN	2
9	96906	MS31967-9	NUT, HEX, 3/8 IN	13
10	96906	MS35338-46	WASHER, LOCK, 3/8 IN	13
11	96906	MS90725-64	SCREW, HEX, 3/8 X 1 1/2 IN	13
12	96906	MS35140-14	CLAMP, SINGLE PIPE, 1 IN	13
13	96906	MS51873-131B	NIPPLE, BLACK PIPE, 1 X 5 1/2 IN	1
14	96906	MS51873-125B	NIPPLE, BLACK PIPE, 1 X 2 1/4 IN	1
15	96906	MS51873-127B	NIPPLE, BLACK PIPE, 1 X 3 3/4 IN	1
16	72423	2071-397	REDUCER, BUSHING, 2 TO 1 IN	2
17	72423	1221-400	TEE, BLACK PIPE, 300 PSI, 2 IN	2
18	96906	MS51873-128B	NIPPLE, BLACK PIPE, 1 X 4 IN	1
19	96906	MS51967-15	NUT, HEX, 1/2 IN	7
20	96906	MS35338-48	WASHER, LOCK, 1/2 IN	7
21	96906	MS90725-115	SCREW, HEX, 1/2 X 2 IN	7
22	97403	13228E2142-27	CLAMP, SINGLE PIPE, 2 IN	7
23	72423	1641-400	UNION, BLACK PIPE, 300 PSI, 2 IN	2
24	72423	ASTM-A53	PIPE, BLACK, SCHED 80, 2 IN	V
25	72423	1201-400	ELBOW, BLACK, 90 DEGREE, 2 IN	5
26	96906	MS51873-1938	NIPPLE, BLACK PIPE, CLOSE, 2 IN	2
27	72423	1643-400	ELBOW, UNION, 90 DEGREE, 2 IN	4
28	96906	MS51873-197B	NIPPLE, BLACK PIPE, 2 X 4 IN	1
29			COUPLING, PIPE, 2 IN	1
30	96906	MS90725-172	SCREW, HEX, 5/8 X 4 IN	6
31	96906	MS35338-50	WASHER, LOCK, 5/8	6
32	97403	13228E2142-50	CLAMP, CONDENSOR PIPE, 4 POSITION	1
33	97403	13288E2142-51	CLAMP, CONDESOR PIPE, 3 POSITION	1

(1) ITEM NO.	(2) FSCM	(3) PART NUMBER	(4) DESCRIPTION AND USABLE ON CODE	(5) QTY
34 35 36 37	96906 96906 96906 96906	MS35338-50 MS51967-21 MS51873-194B MS51873-199B	FIG. 163 MAIN AIR PIPING (CONT)  WASHER, LOCK, 5/8 NUT, HEX, 5/8 NIPPLE, BLACK PIPE, 2 X 2 1/2 IN NIPPLE, BLACK PIPE, 2 X5 IN.  END OF FIGURE	6 6 1 3

Section III. SPECIAL TOOLS LIST

(Not Applicable)



By Order of the Secretary of the Army:

CARL E. VUONO  
*General, United States Army*  
*Chief of Staff*


Official:

WILLIAM J. MEEHAN, II  
*Brigadier General United States Army*  
*The Adjutant General*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25A, Unit, Intermediate Direct Support and General Support Maintenance requirements for Locomotive, 80-Ton Model 112-5708

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <p style="font-size: small; margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
		DATE SENT	
PUBLICATION NUMBER		PUBLICATION DATE	PUBLICATION TITLE
IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.			
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER		SIGN HERE	

## The Metric System and Equivalents

### *Linear Measure*

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### *Weights*

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 acres  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

### *Liquid Measure*

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### *Square Measure*

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### *Cubic Measure*

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

### Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

### Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
----	------------------------	----------------------------	---------------------	----

