

**ORGANIZATIONAL AND FIELD MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

FOR

**SEMITRAILER, TANK: FUEL SERVICING,
5000 GALLON, 4-WHEEL, M131A3C (2330-533-3380)
SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL
M131 (2330-835-8565)
M131A1 (2330-508-1484)
AND
M131A2 (2330-574-7964)**

**This copy is a reprint which includes current
pages from changes 1 and 2.**

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

FEBRUARY 1961

Change 1

Change }
No. 2 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C. 6 May 1970

**Organizational and Field Maintenance
Repair Parts and Special Tool List
SEMITRAILER, TANK: FUEL SERVICING,
5000 GALLON, 4-WHEEL, MI 31 A3C (2330-533-3380)
SEMITRAILER, TANK: GASOUNE, 12-TON; 4-WHEEL
M131 (2330-835-8565)
M131 A1 (2330-508-1484)
AND
M131 A2 (2330-574-7964)**

TM 9-2330-208-24P, 17 February 1961, is changed as follows:

Page 1. Sub-paragraph *h.* is added after paragraph 1.*g.*
"*h* Section 1a lists a Prescribed Load Allowance (PLA). This is a composite listing of repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level."

Page 2. Sub-paragraph *i.* is added after paragraph 4.*h.*
"*i* 15-Day Organizational Maintenance Allowance (PLA).

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

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the density column applicable to the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded

to US Army Tank-Automotive Command, AMSTAMT, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the US Army Tank-Automotive Command, AMSTA-MT, based on engineering experience, demand data, or TAERS information."

Page 3, paragraph 12. Delete "Commanding Officer, Raritan Arsenal, Metuchen, New Jersey, ATTN: ORDJR-OPRA" and add "Commanding General, US Army Tank-Automotive Command, ATTN: AMSTA-MT, Warren, Mich. 48090
Page 3. Section IA is added after paragraph 12.

SECTION II PRESCRIBED LOAD ALLOWANCE

(1) FEDERAL STOCK NUMBER	(2) DESCRIPTION	(3) 15-DAY ORG MAINT. ALW			
		(a)	(b)	(c)	(d)
		1-5	6-20	21-50	51-100
	GROUP 06 - ELECTRICAL SYSTEM 0609 - LIGHTS				
5330-297-7106	PACKING, PREFORMED	*	1	1	1
6220-283-9490	LIGHT, MARKER, CLEARANCE (M131A2)	*	*	*	2
6220-283-9494	LIGHT(M131A2)	*	*	1	2
6220-299-7425	LENS (M131A2)	*	1	1	2
6220-299-7426	LENS (M131A2)	*	1	1	2
6220-337-6471	LIGHT	*	*	*	2
6220-678-9047	GASKET(M131A3C)	*	*	1	2
6240-019-0877	LAMP, INCANDESCENT	2	2	5	8
6240-044-6914	LAMP, INCANDESCENT	*	1	2	4
	GROUP 11 - REAR AXLE 1100 - REAR AXLE ASSEMBLY				
2530-091-9773	HUB (M131A1 and M131A21)	*	1	1	2
2530-290-8521	GASKET(M131A1 and M131A2J)	*	1	2	2
2530-734-6993	GASKET (M131)	*	1	2	2
3110-100-0649	CONE	*	1	1	2
3110-142-4390	CUP	*	1	1	2
3110-198-1468	CONE AND ROLLER	*	1	1	2
	1104 - HUB, BRAKE DRUM AND BEARINGS				
2520-740-9550	SEAL, PLAIN, ENCASEL	*	1	1	2
2530-290-8521	GASKET (M131A3C)	*	1	1	2
	GROUP 12 - BRAKES 1202 - SERVICE BRAKES				
2530-093-5597	DRUM	*	2	2	2
2530-2054654	SPRING (M131A2 and M131A3C)	*	*	*	*
2530-205-4657	SPRING (M131A2 and M131A3C)	*	*	*	*
2530-740-9567	BEARING (M131)	*	*	*	*
3110-183-6724	BEARING (M131)	*	*	*	*
	1204 - HYDRAULIC BRAKE SYSTEM				
2530-740-9331	HOSE (M131A1 and M131A3C)	1	1	2	2
5310-359-0458	GASKET(M131A1 and M131A2)	*	2	2	4
5340-737-3354	GASKET(M131A1, M131A2 and M131A3C)	*	1	1	2
	1205- VACUUM SYSTEM COMPONENTS				
2530-562-8816	CHAMBER, AIR BRAKE (M131A1, M131A2 and M31A3C)	*	1	1	2
	1208 - AIR BRAKE SYSTEM				
2530-797-9290	HOSE ASSEMBLY, RUBBER(M131)	*	1	1	2
	GROUP 13 - WHEELS 1311 - WHEEL ASSEMBLY				
2530-603-5768	WHEEL	*	*	2	2
2530-738-9061	RING	*	*	2	2

SECTION II PRESCRIBED LOAD ALLOWANCE

(1) FEDERAL STOCK NUMBER	(2) DESCRIPTION	(3) 15-DAY ORG MAINT. ALW			
		(a)	(b)	(c)	(d)
		1-5	6-20	21-50	51-100
	1313 - TIRES AND TUBES				
2610-051-9450	TUBE	*	1	1	2
2610-262-8653	TIRE	*	1	2	2
2610-275-7997	TIRE, PNEUMATIC	1	1	2	2
2640-050-1229	VALVE	*	1	2	2
2640-052-0944	CAP	1	2	3	5
	GROUP 15 - FRAME 1507 - LANDING GEAR				
2530-534-2342	SEAL	*	1	1	2
	GROUP 16 - SPRINGS 1601 - SPRINGS AND SPRING MOUNTING				
2510-318-1018	SPRING ASSEMBLY(M131)	1	1	2	2
2510-740-9606	RETAINER, PACKING (M131A3C)	1	2	2	2
2510-740-9607	TUBE (M131)	1	1	2	2
3110-100-0649	CONE AND ROLLER (M131, M131A1 and M131A2)	REF	REF	REF	REF
3110-142-4390	CEP, TAPERED ROLLER (M131A3C)	REF	REF	REF	REF
3110-198-1468	CONE (M131 and M131A1)	REF	REF	REF	REF
5310-013-1-144	CONE (M131A1 and M131A3C)	*	1	2	2
	1605 - TORQUE AND RADIUS RODS				
2530-740-9620	BALL	*	1	1	2
	GROUP 18 - BODY 1811 - TANK BODIES				
2590-318-4318	GASKET (M131A2)	*	*	*	*
2590-627-8312	GASKET (M131A2 and M131A3C)	*	1	1	2
2590-627-8320	GASKET (M131A2)	*	1	1	2
2590-627-8321	GASKET (M131A2 and M131A3C)	*	1	1	2
2590-764-6285	GASKET (M131A3C)	*	1	1	2
2910-736-8084	GASKET(MI31 and M131A1)	*	1	1	2
4730-216-6075	PLUG (M131 and M131A1)	1	1	1	2
5330-318-4321	GASKET(MI31 and M131A1)	*	1	1	2
5330-318-4326	SEAI (M131 and M131A1)	*	1	1	2
5330-318-4327	GASKET(M131, M131A1, and M131A3C)	*	2	2	2
	GROUP 29 - AUXILIARY ENGINE 2916 - ENGINE LUBRICATION SYSTEM				
2805-527-7533	GASKET(M131 and M131A1)	1	1	2	2
2805-641-7571	GASKET(M131 and M131A1)	1	1	2	2
	2917 - STARTING DEVICE				
3120-659-7767	BEARING (M131A2 and M131A3C)	*	1	1	2
	2918- MANIFOLDS				
2805-699-6885	GASKET	1	2	3	4
	2936 - GOVERNOR AND CONTROLS				
2805-423-0363	GASKET	1	2	3	4
	2965 - IGNITION COILS				
2920-359-4858	PLUG (M131A2 and M131A3C)	1	2	3	4
2920-569-8964	SPARK PLUG (M131 and M131A1)	1	2	3	4
2920-816-7682	SPARK PLUG, MS 35908-3(M131 and M131A1)	1	2	3	4

By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM,
*Major General United States Army,
The Adjutant General.*

W. C. WESTMORELAND,
*General, United States Army,
Chief of Staff*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-39, organizational maintenance requirements applicable to Semitrailer, Tank: Gasoline, M131, M131A1, M131A2 and M131A3C.

CHANGES 2
No. 1

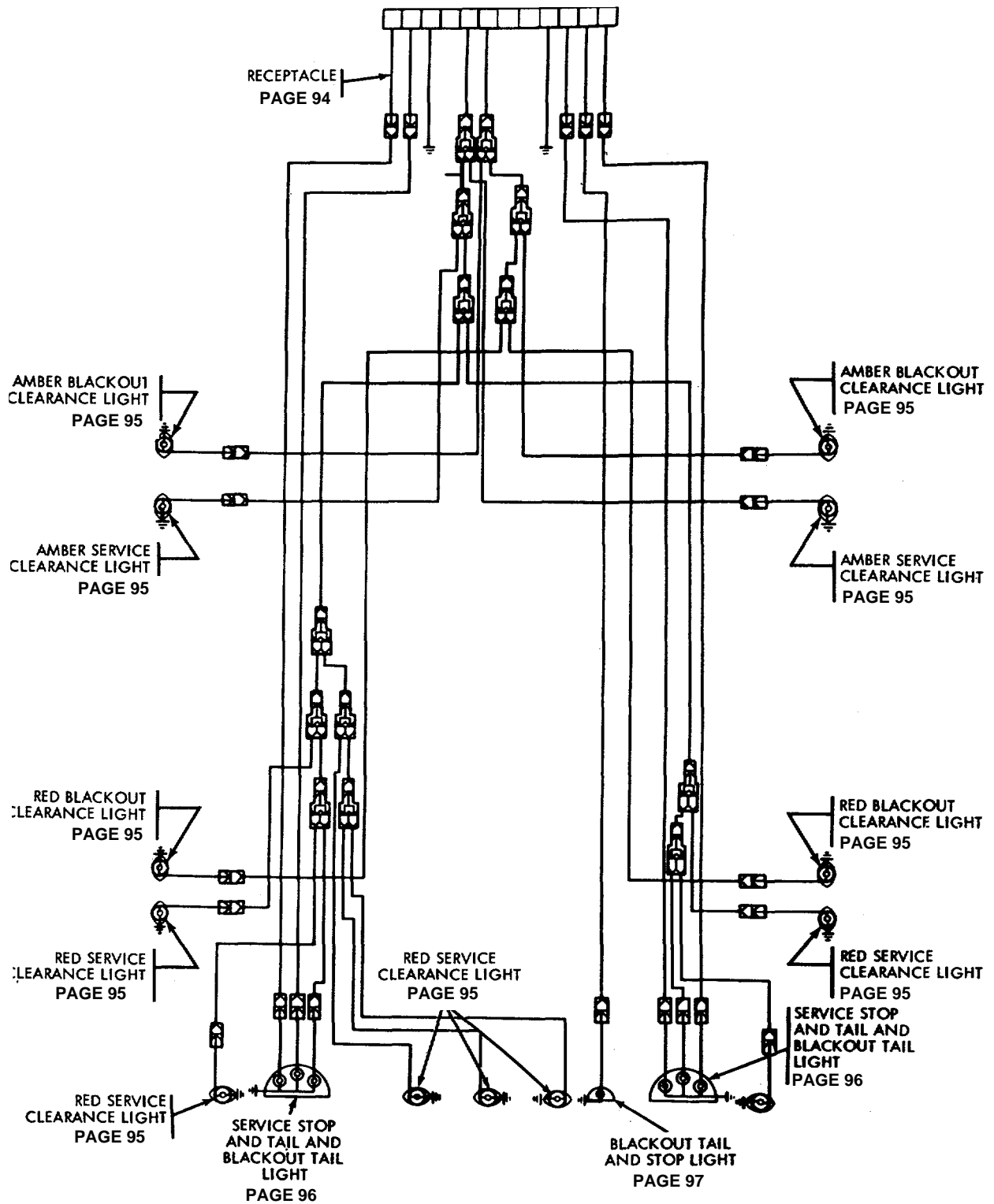
SEMITRAILER, TANK: FUEL SERVICING,
5000 GALLON, 4-WHEEL, M131A3C
SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL
M131, M131A1, and M131A2

TM 9-2330-208-24P, 17 FEBRUARY 1961 IS CHANGED AS FOLLOWS:
CHANGE THE TITLE TO READ AS SHOWN ABOVE:

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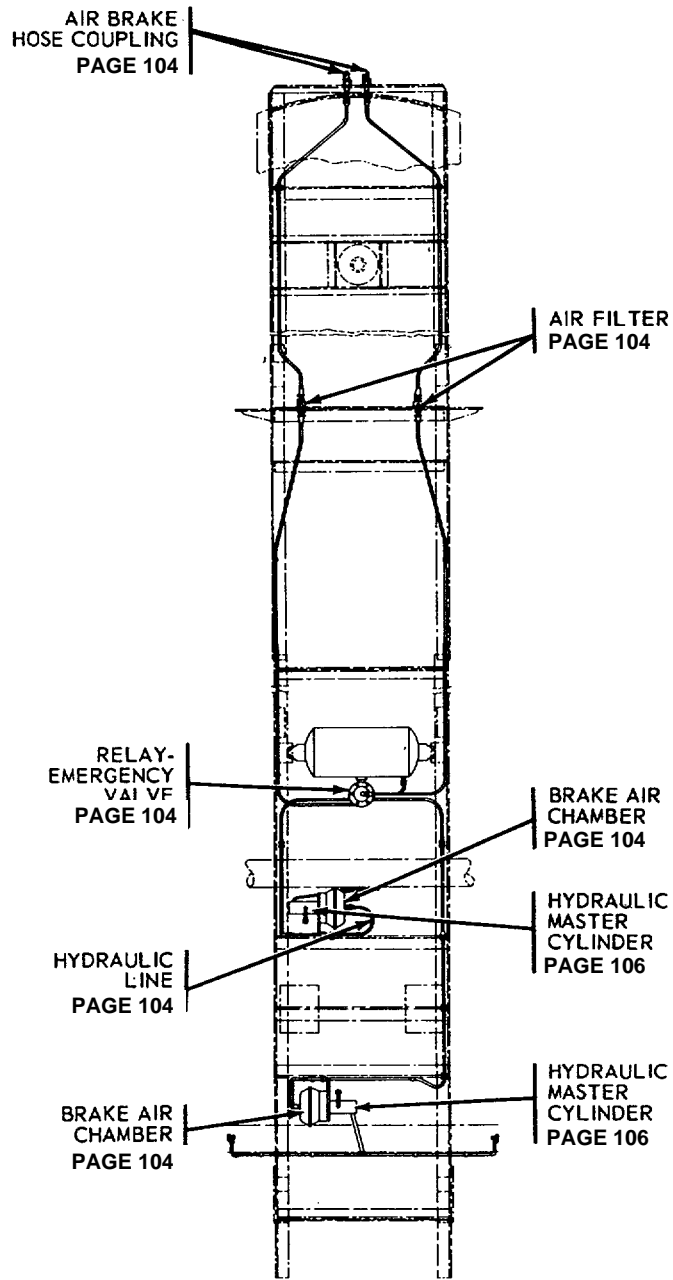
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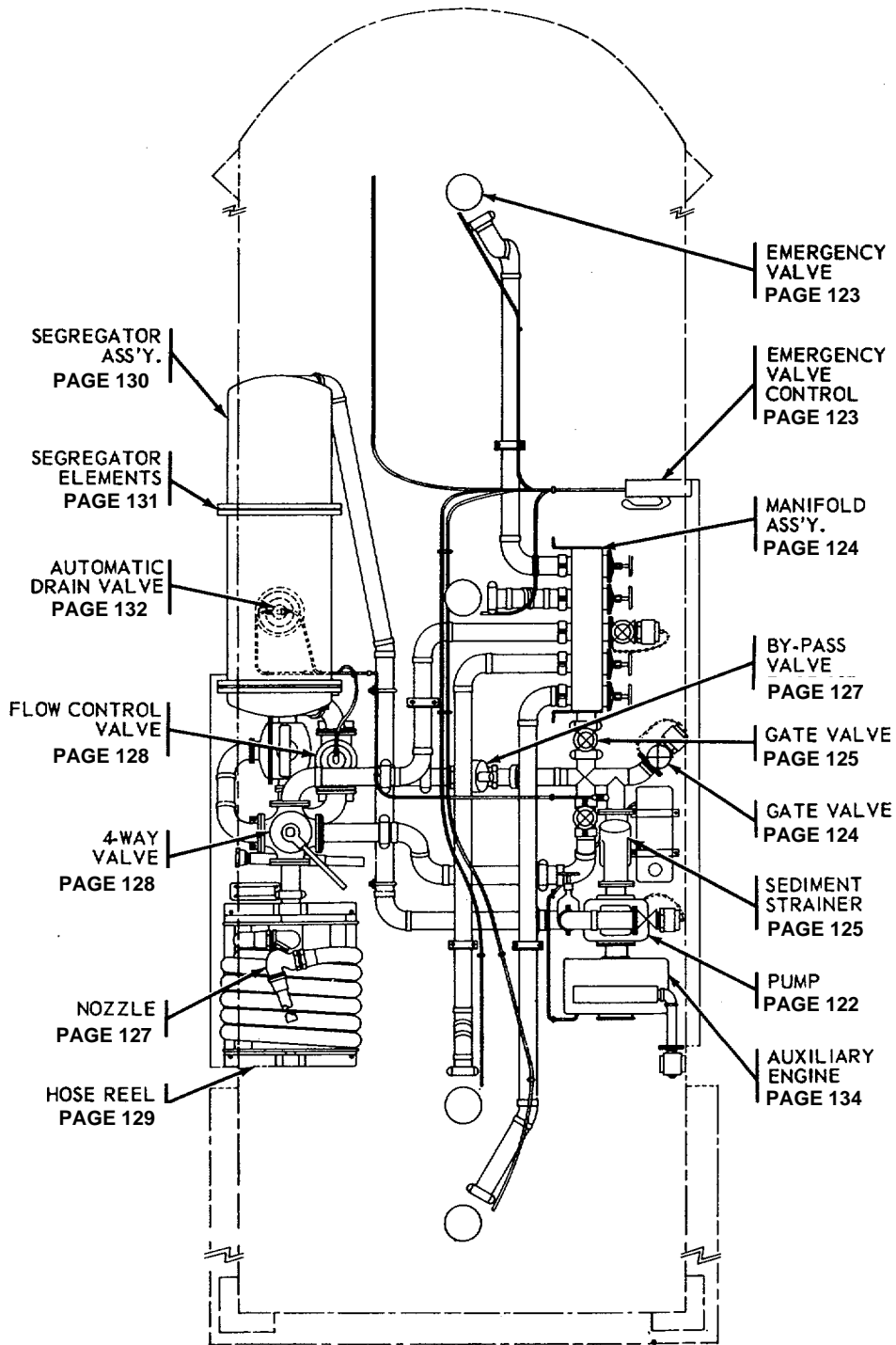
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SECTION I - INTRODUCTION

PREFACE

All information contained in pages 1 through 3 of TM 9233020824P is also applicable to the M131 A3C except as noted below.

7. PERTINENT PUBLICATIONS. Add the following publication in addition to those already listed.

Publication No	Title
C1, TM 9-2330-208-15	Operators and Organizational, Field, and Depot Maintenance Manual, Semi-trailer, Tank: Gasoline, 12-Ton, 4-Wheel, M131, M131A1, M131A2, and M131A3C.

8. SPECIAL INFORMATION. C1, TM2233020824P illustrations and supporting text are applicable only to the M131A3C.

11. MANUFACTURER'S SYMBOLS.

Symbol	Manufacturer
08712	Ralph A. Brodie Co.
29215	Homestead Valve Mfg. Co.
40342	Midland Steel Products Co.
41592	Morrison Bros. Co.
44940	D. W. Onan and Sons, Inc.
77970	A. O. Smith Corp.
81718	Dover Corp.
82366	Aero-Motive Mfg. Co.
90005	The Bendix Corp.
90179	United States Rubber Co.
92858	Clifford B. Hannay and Son, Inc.
96906	Military Standards

MAINTENANCE TOOLS FOR ORDNANCE PERSONNEL

All information pertaining to the M131A2 is also applicable to the M131A3C.



FIGURE 72. SEMITRAILER, TANK: FUEL SERVICING, 4-WHEEL, M131A3C - RIGHT REAR VIEW.

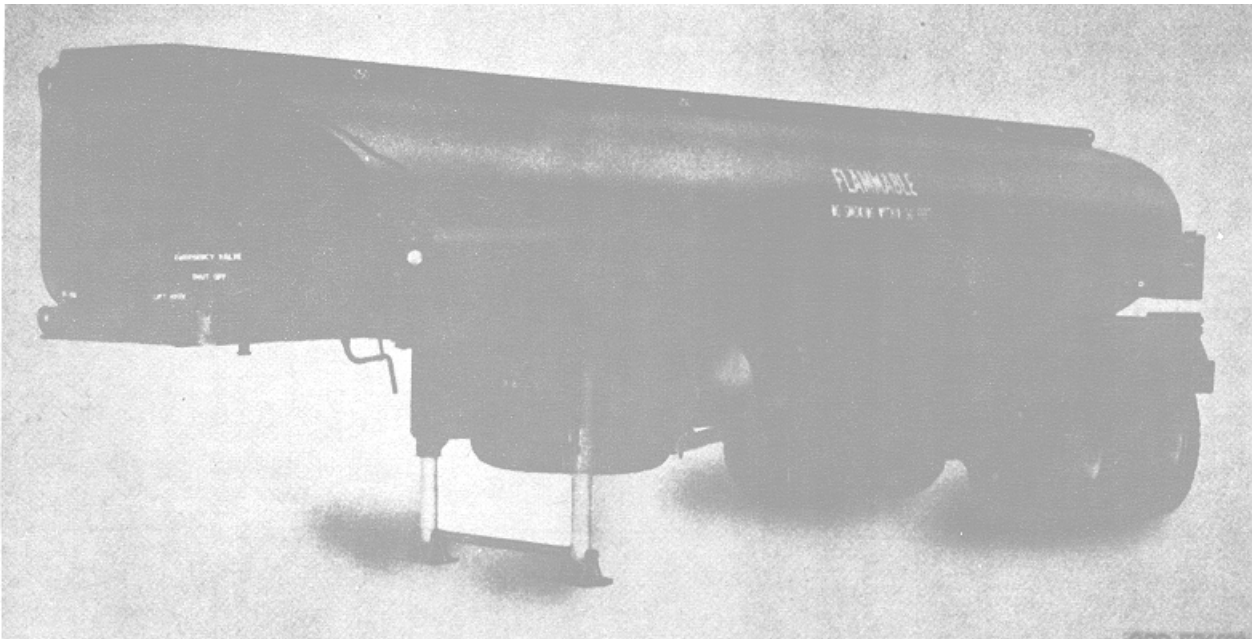


FIGURE 73. SEMITRAILER, TANK: FUEL SERVICING, 4-WHEEL, M131A3C - LEFT FRONT VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erabil- ity					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
74	1		P	O		5935-773-1428	cover, receptacle, w/hinge, assy (7731428)	ea	1		*	.3	.3
74	2		P	O		5935-306-2062	CONNECTOR, RECEPTACLE, ELECTRICAL: cable, inter-vehicular, assy (8376208)	ea	1	*	*	*	*
			P	O		5310-012-0367	NUT, PLAIN, HEXAGON: S, 1/4-28UNF-28, 7/16W, 7/32 thk (120367)	ea	4		*	.5	.5
			P	O		5305-021-4420	SCREW, MACHINE: rd-hd, S, 1/4-28UNF-2AX7/8 (214420)	ea	4		*	.5	.5
74	3	10	P	O		5310-582-5965	WASHER, LOCK: split, S, 1/4 BOLT SIZE(MS35338-44)	ea	4		*	5	5
74	4		P	O		5325-090-5426	GROMMET, RUBBER: receptacle connector (772233)	ea	1	*	*	*	*
74	5		P	O		5935-772-3309	NUT, BUSHING, RETAINER ELECTRICAL, CONNEC- TOR: al, cd-pltd, 1-5/8-18NEF-2x1 (7723309)	ea	1	*	*	*	*
74	5		P	O		5935-699-9004	CONNECTOR: assy (7982404)-----	ea	13	*	*	1.7	1.7
			P	O		5935-833-8561	NON-ILLUSTRATED ITEMS SHELL, ELECTRICAL CONNECTOR: MAIN HARNESS (8338561)	ea	59	*	*	2.1	2.1
			P	O		1015-833-8566	SHELL: female (8338566)-----	ea	16	*	*	1.7	1.7
			P	O		5935-833-8562	SLEEVE: electrical connector (8338562)-----	ea	16	*	*	2.1	2.1

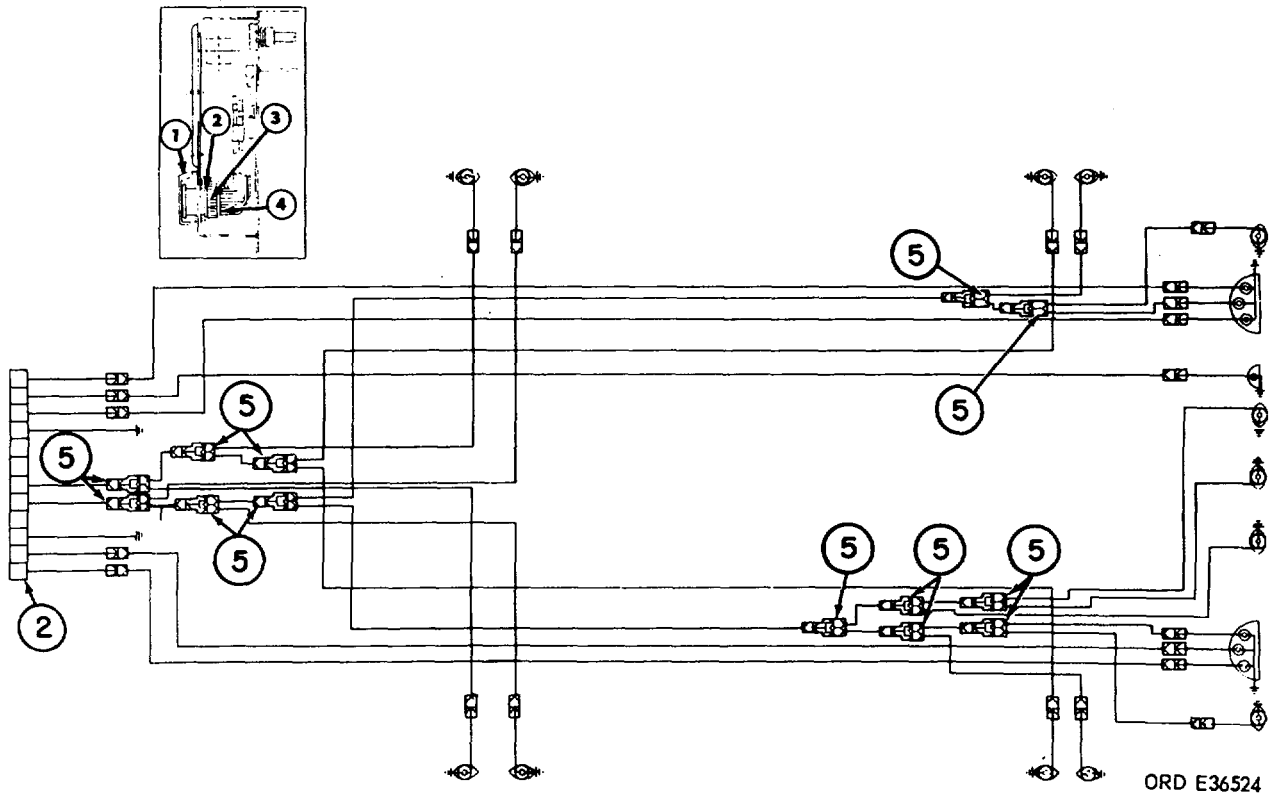


FIGURE 74. WIRING HARNESS, CONNECTORS, AND RECEPTACLES (M131A3C) --SCHEMATIC VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>ELECTRICAL SYSTEM.- Continued</u>						
							<u>CLEARANCE LIGHTS (M131A3C)(Fig. 75)</u>						
75	1		P	O		6220-741-1847	LIGHT,CLEARANCE: wtrprf,w/o LAMP; LENS, or FILTER (7411847)	ea	13	*	*	2	2
75	2	5	P	O		6240-019-0877	LAMP, INCANDESCENT: (190877)-----	ea	13	1.2	1.2	1.2	.6
75	3		P	O		6220-299-7425	LENS, CLEARANCE MARKER LIGHT: service, PLASTIC, amber (front) (7525994)	ea	2	*	*	.4	.4
75	3		P	O		6220-299-7426	LENS, CLEARANCE MARKER LIGHT: service Plastic, red (rear) (7525995)	ea	7	*	*	.4	.4
75	4		P	O		6220-752-5992	LENS, CLEARANCE MARKER LIGHT: plastic Amber, w/FILTER (front) (7525992)	ea	2	*	*	*	*
75	4		P	O		6220-752-5993	LENS, CLEARANCE MARKER LIGHT: plastic, red, W/FILTER (rear) (7525993)	ea	2	*	*	*	*
75	5		P	O		6220-752-6516	DOOR: clearance light (7526516)-----	ea	8	*	*	.8	.8
75	6		P	O		5330-353-0959	GASKET: mounting, felt, 1/16 THK (7526509)-----	ea	8	*	*	3	3

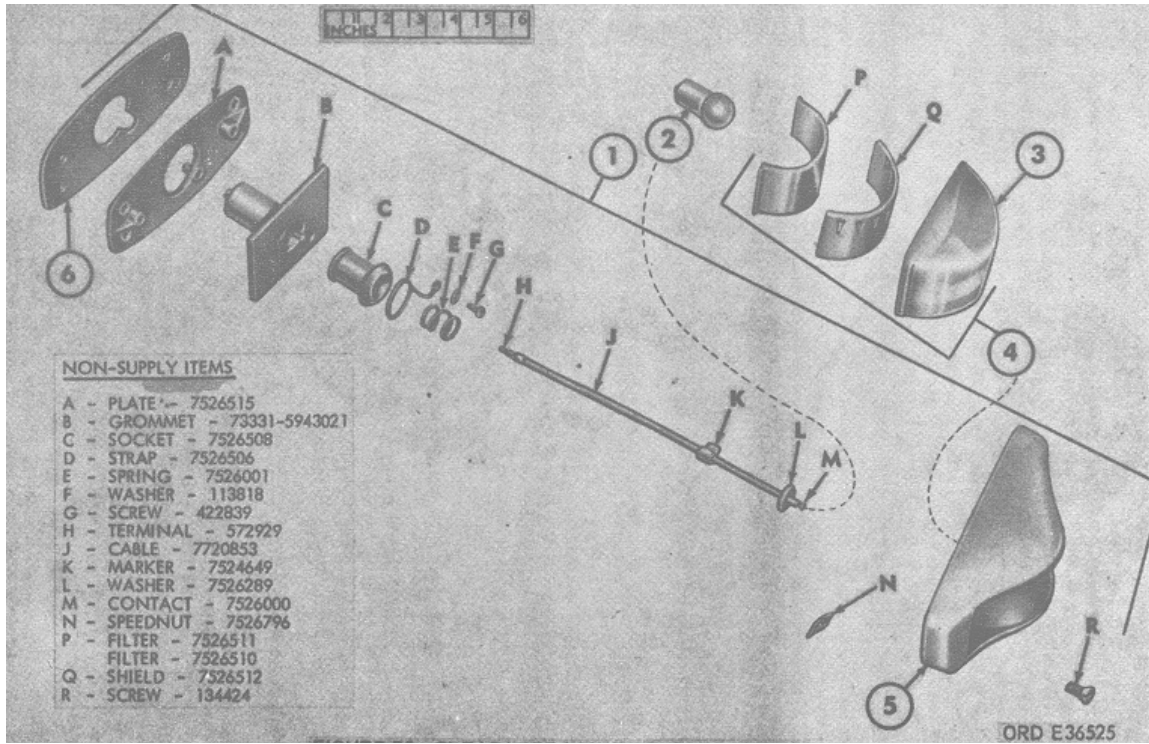


FIGURE 75. CLEARANCE LIGHT - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
76	1		P	O	R	6220-299-7058	<u>ELECTRICAL SYSTEM - CONTINUED</u> <u>TAILLIGHT ASSEMBLY (M131A3C) (FIG. 76)</u>	ea	2	*	*	*	*
			P	O		5305-012-2104	STOP LIGHT, TAILLIGHT,, VEHICULAR: (8378785)	ea	4	*	*	1	1
			P	O		5310-637-9541	SCREW, CAP, HEXAGON HEAD: S, 3/8-16UNC-2AX 5/8 (96906-35291-57)	ea	4	*	*	1	1
76	2		P	O		6220-752-6020	WASHER, LOCK: split,s,3/8 id, 0.094 to 0.104 thk (96906-35338-27)	ea	2	*	*	1.0	1.0
76	3		P	O		5330-297-7106	DOOR ASSY: blackout tail and service tail and stop Light, flange mtg w/SCREWS, assy (7526020)	ea	2	*	*	4.2	4.2
76	4	5	P	O		6240-044-6914	PACKING, PREFORMED: stop light door (7320658)	ea	2	1.2	1.2	1.2	.6
76	5	5	P	O	R	6240-019-0877	LAMP, INCANDESCENT: stop light (446914)	ea	4	1.2	1.2	1.2	.6
76	6		P	O		5305-226-9267	LAMP, INCANDESCENT: (190877)-----	ea	6	*	*	1.5	1.5
		10	P	O		5325-353-0948	<u>NON-ILLUSTRATED ITEMS</u>	ea	4	*	*	1.7	1.7
			C	O		5935-353-0955	GROMMET: taillight socket, w/EYELET, assy SOCKET: taillight_w/WIRING assy (7526005)	ea	1	*	*	2	2

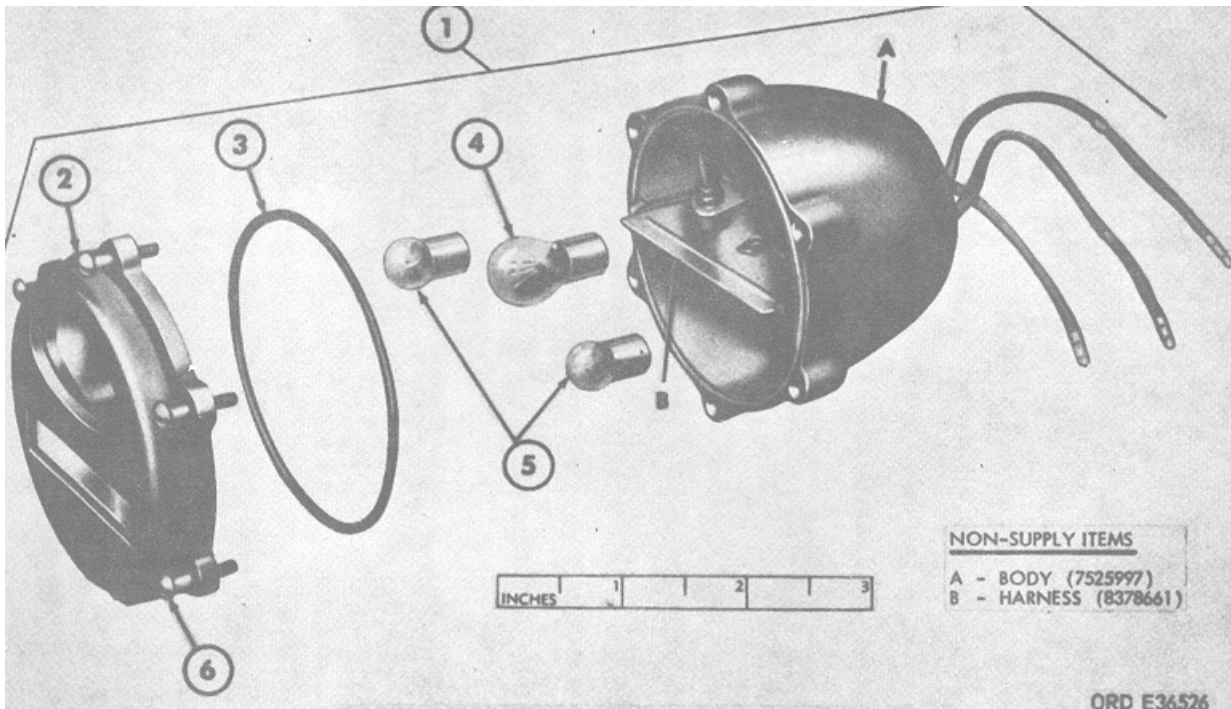


FIGURE 76. TAILLIGHT ASSEMBLY - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>ELECTRICAL SYSTEM - continued</u>						
							<u>TAILLIGHT ASSEMBLY (M131A3C) (FIG. 77)</u>						
77	1		P	O	R	6220-775-2385	STOP LIGHT - TAILLIGHT ASSEMBLY, BLACKOUT: (8741645)	ea	1	*	*	*	*
77	2		P	O		6220-775-2384	DOOR ASSEMBLY, SIGNAL LAMP: blackout (8741646)	ea	1	*	*	*	*
77	3		P	O		6220-678-9047	GASKET: door, blackout lamp (8694464)-----	ea	1	*	*	.5	.5
77	4	5	P	O		6240-019-0877	LAMP, INCANDESCENT: (190877)-----	ea	1	1.2	1.2	1.2	6

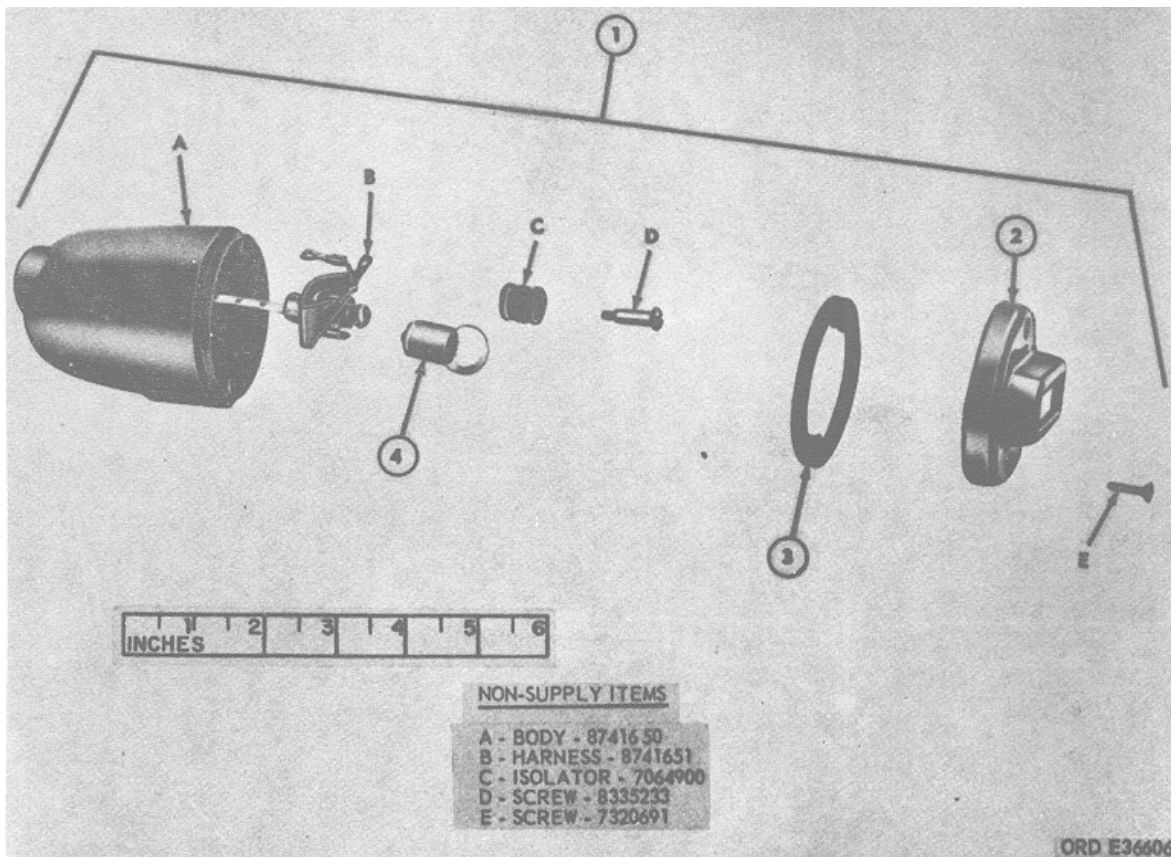


FIGURE 77. TAILLIGHT ASSEMBLY - EXPLODED VIEW.

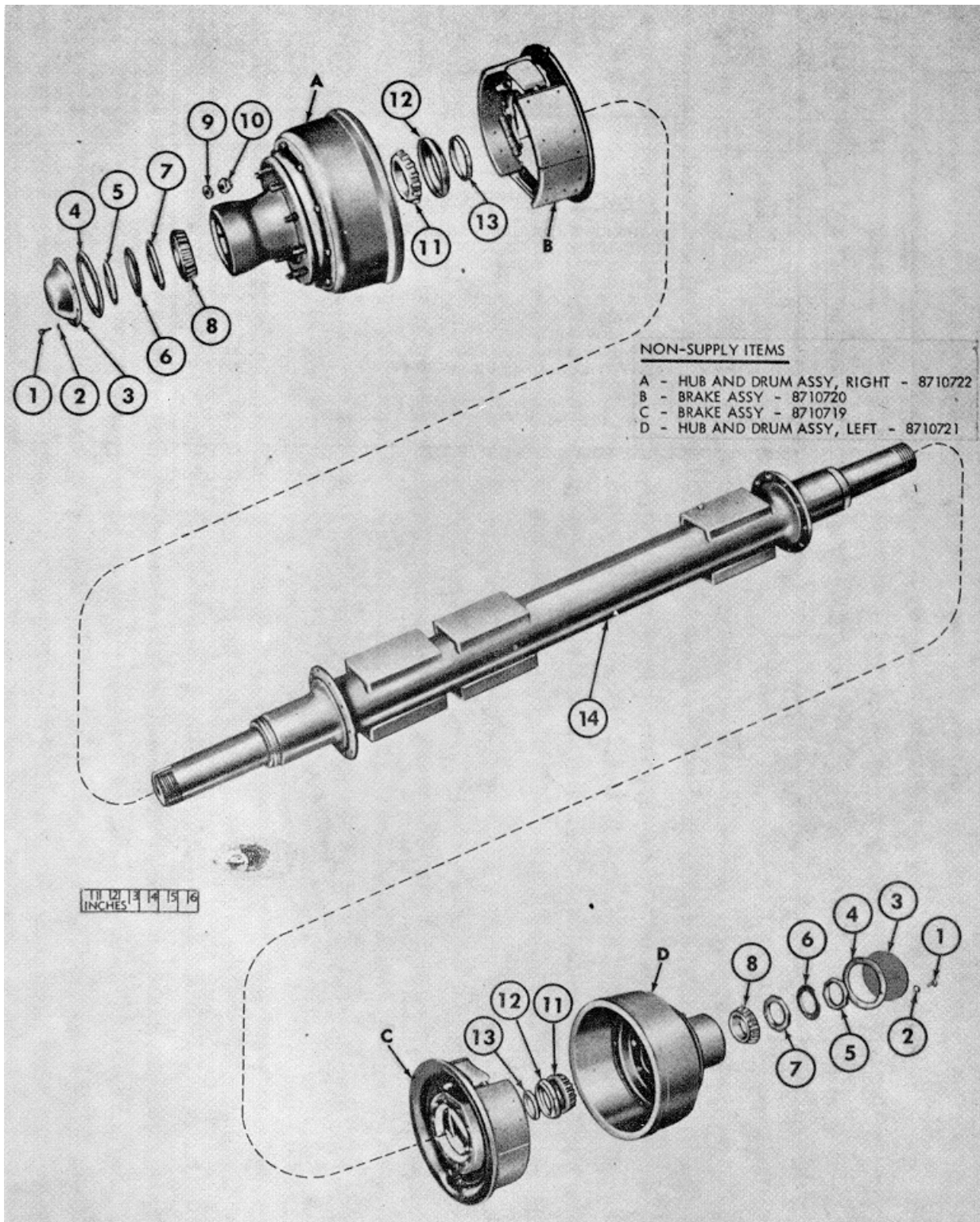


FIGURE 78. AXLE AND SERVICE BRAKE - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) CODE FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES - (M131A3C)</u> <u>AXLE AND SERVICE BRAKE (FIG. 78)</u>						
78	1		P	O		5306-012-0834	BOLT, MACHINE: BEARING CUP (MS35291-29)	EA	24	*	*	*	*
78	2		P	O		5310-012-214	WASHER, LOCK: HUB CAP (MS35338-26)	EA	24	*	*	*	*
78	3		P	O		2530-287-8220	CAP: HUB (8710725)-----	EA	4	*	*	*	*
78	4		P	O		5330-290-8521	GASKET: HUB CAP (8710726)-----	EA	4	*	*	1	1
78	5		C	O		5310-353-2427	NUT, PLAIN, OCTAGON: ADJUSTING, W/PIN, ASSY (7409603)	EA	4	*	*	*	*
78	6		C	O		5310-700-7089	WASHER, KEY: 8, 3-3/8 ID, 5/16 OD, HUB BEARING ADJUSTING NUT (5139123)	EA	2	*	*	*	*
78	7		C	O		5310-353-2297	NUT, PLAIN, OCTAGON: ADJUSTING, W/PIN, ASSY (1409603)	EA	4	*	*	*	*
78	8		P	O		3110-1004649	CONE AND ROLLERS, TAPERED ROLLER BEARING: (705155)	EA	4	*	*	8	8
78	9		C	O		2530-93-1028	NUT, CAP, STEEL, RIGHT HAND: (WHEEL, INNER) (537809)	EA	20	*	*	*	*
78	10		C	O		5310-053-7805	NUT, CAP, STEEL, LEFT HAND: (WHEEL, INNER) (537805)	EA	20	*	*	*	*
78	11		P	O		3110-98-1468	CONE AND ROLLERS, TAPERED ROLLER BEARING: (712286)	EA	4	*	*	8	8
78	12		P	O		2520-740-9550	SEAL, PLAIN, ENCASED: OIL, HUB BEARING (7409550)	EA	4	*	*	2.5	2.5
78	13		P	O		2530-740-0553	WIPER: HUB BEARING OIL SEAL (7409553)-----	EA	4	*	*	4	4
78	14		X2	O	R	2530-797-0344	AXLE, VEHICULAR, NON-DRIVING: FORWARD AND REAR, W/INTERNAL FLANGE AND SPRING SEAT ADAPTER (7979344)	EA	2	*	*	*	*

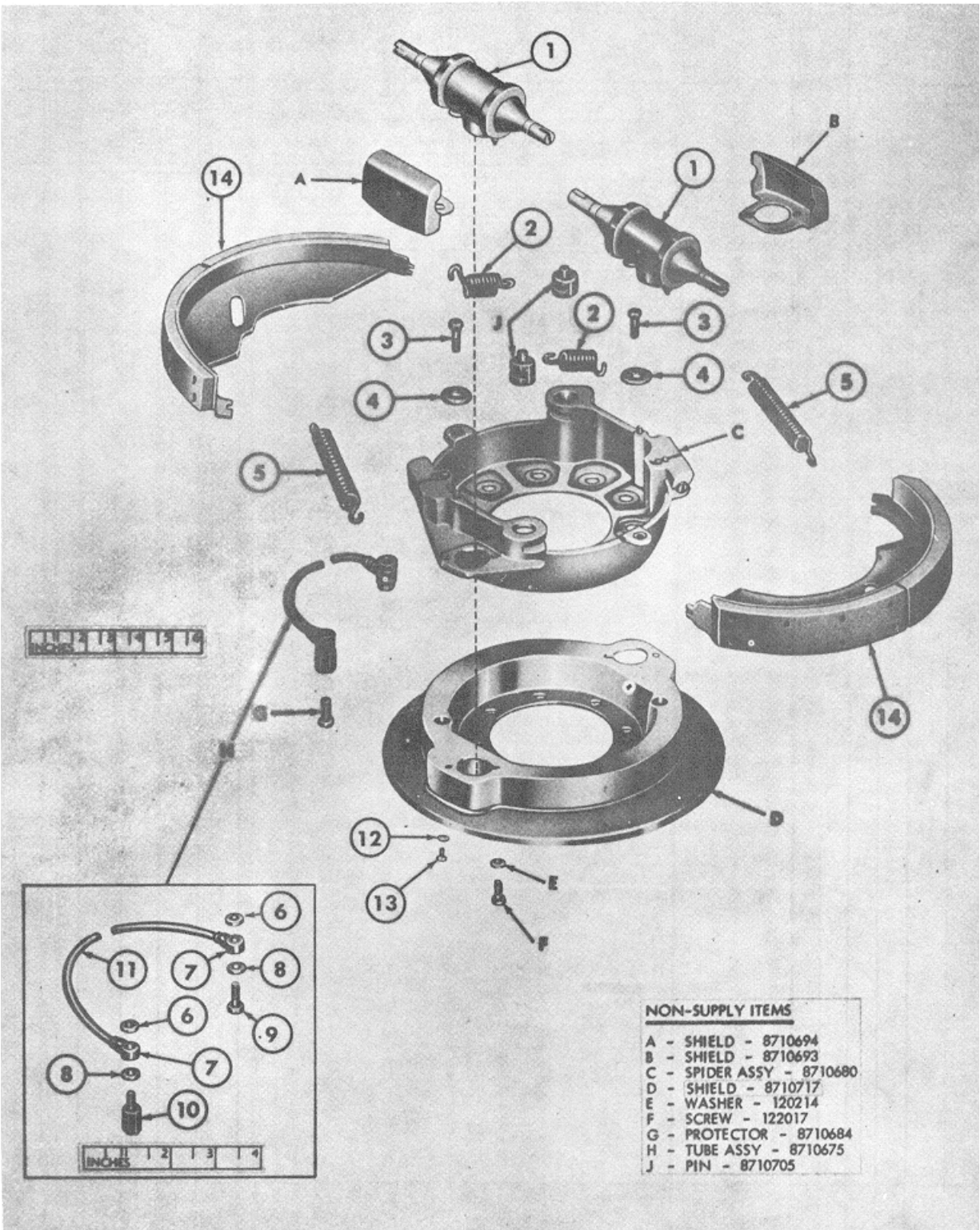


FIGURE 79. SERVICE BRAKE - EXPLODED VIEW.

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(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) CODE FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES</u> <u>- CONTINUED</u> <u>SERVICE BRAKE (M131A3C) (FIG. 79)</u>						
79	1		P	O		2530-678-3332	CYLINDER ASSEMBLY, HYDRAULIC BRAKE WHEEL: (8720473) (see fig. 83 for exploded view)	ea	8	*	*	1	1
79	2		P	O		2530-205-4654	SPRING, HELICAL, EXTENSION: return shoe (short) (8710696)	ea	8	*	*	*	*
79	3		P	O		5306-297-8274	BOLT, SHOULDER: S, zn-pltd, 1/4-28 UNF-2A thd, 3/8 IG, guide shoe (8710683)	ea	8	*	*	*	*
79	4		P	O		5310-209-0041	WASHER, FLAT: shoe, guide bolt (8710685) -----	ea	8	*	*	*	*
79	5		P	O		2530-205-4657	SPRING, HELICAL, EXTENSION: return (long) shoe (8710697)	ea	8	*	*	*	*
79	6		C	O		5310-741-2088	WASHER, REAR AXLE: wheel cylinder inlet fitting, Inner (7412088)	ea	8	*	*	4.2	4.2
79	7		P	O		4730-036-4421	CONNECTOR, MULTIPLE, FLUID PRESSURE LINE: Wheel cylinder inlet (8332586)	ea	8	*	*	*	*
79	8		C	O		5310-274-4544	WASHER, FLAT: wheel cylinder inlet fitting, outer (5298653)	ea	12	*	*	2.1	2.1
79	9		C	O		5306-741-2079	BOLT, BRAKE LINE CONNECTING: wheel cylinder inlet fitting (7412079)	ea	8	*	*	1.7	1.7
79	10		P	O		4730-2000442	BOLT, FLUID PASSAGE: wheel cylinder (8710709)	ea	4	*	*	*	*
79	11		P	O		2530-534-2347	TUBE ASSEMBLY, METAL, PREFORMED: upper and lower wheel cylinder (8710676)	ea	4	*	*	*	*
79	12		P	O		5310-012-0214	WASHER, LOCK: MED. S, cd-cr. zn-pltd, 5/16 BOLT SIZE, WHEEL CYLINDER.- (MS35338-26)	ea	16	*	*	*	*
79	13		P	O		5306-576-0537	BOLT, MACHINE: hex-hd, S, 5/16-18UNF-2AXL (MS35291 -34)	ea	16	*	*	2	2
79	14		P	O		2530-318-1225	BRAKE SHOE, INTERNALLY ACTUATED: w/LINING, Assy (8710715)	ea	8	*	*	*	*
			P	O		2530091-0777	<u>NON-ILLUSTRATED ITEMS</u> SCREW: adjusting, shoe (8710708)-----	EA	8	*	*	*	*
			P	F		2530-493-0996	BRAKE LINING, KIT: replacement (8720226) COMPOSED OF: 8 LINING: (8710716) 64 RIVET: (8710699)	EA	=		.5	.5	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) CODE FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED</u>						
							<u>BRAKE SPIDER WITH GEAR ASSEMBLY</u> <u>(M131A3C) (FIG. 80)</u>						
80	1		P	O		5340-205-5105	RING, RETAINING: SHOE ADJUSTING WORM (8710672)	EA	8	*	*	*	*
80	2		P	O		2530-091-9775	WASHER: SHOE ADJUSTING WORM (8710673)-----	EA	8	*	*	*	*
80	3		P	O		2520-287-8215	GEAR, WORM: ADJUSTING SHOE (8710695)-----	EA	8	*	*	*	*
80	4		P	O		2530-091-9774	SLEEVE: SHOE ADJUSTING WORM (8710671)-----	EA	8	*	*	*	*
80	5		P	O		2530-091-9776	STUD: ADJUSTING, SHOE (8710692)-----	EA	8	*	*	*	*

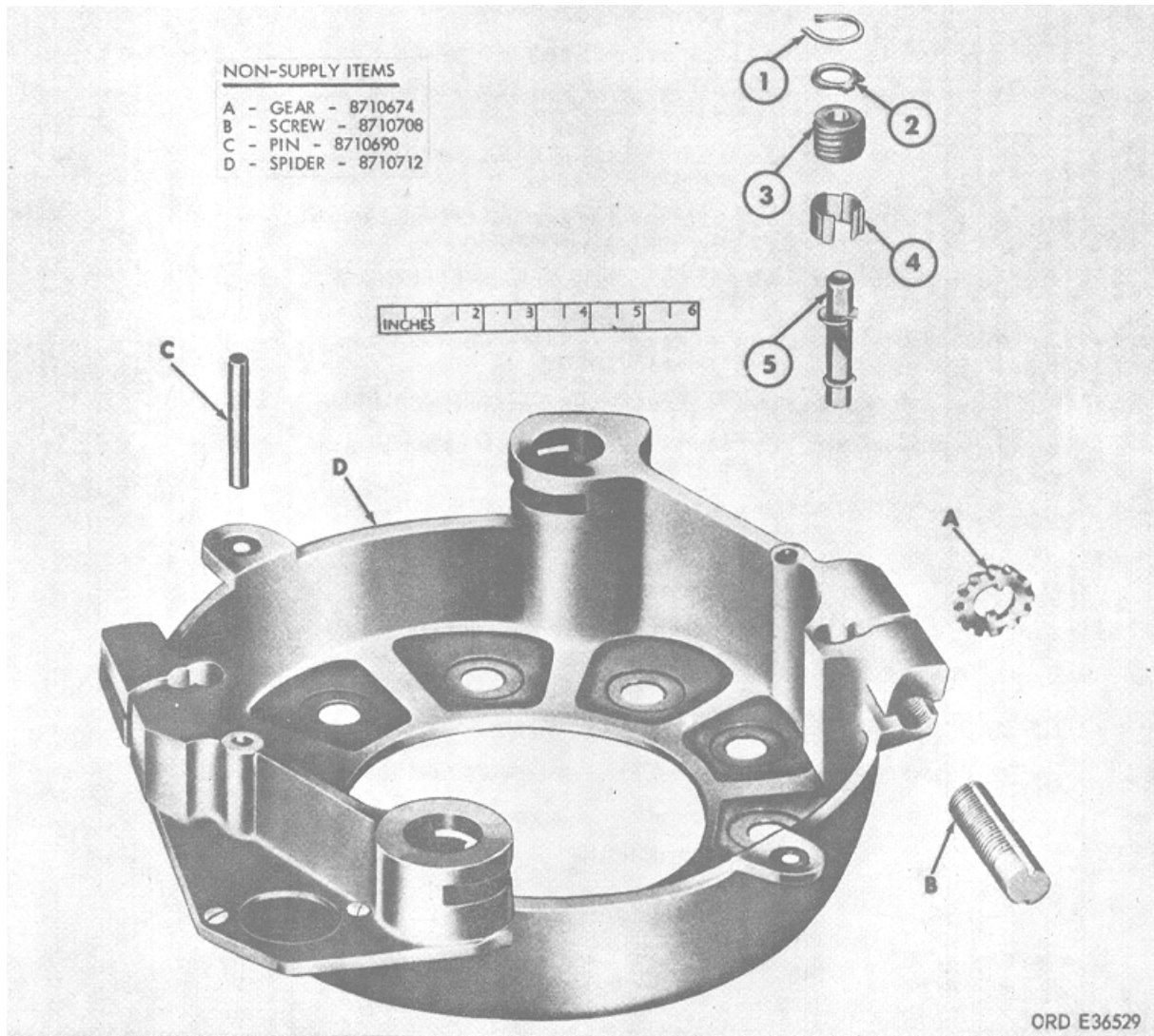


FIGURE 80. BRAKE SPIDER WITH GEAR ASSEMBLY

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) CODE FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED						
							HUB AND DRUM ASSEMBLY (M131A3C) (FIG. 81)						
81	1		P	O	R	2530-091-9773	HUB: W/BEARING CUP, ASSY (8333869)-----	EA	4	*	*	*	*
81	2		P	O		3110142-4390	CUP, TAPERED ROLLER BEARING: (706691)-----	EA	8	*	*	1.7	1.7
81	3		P	O	S	2530-093-5597	BRAKE DRUM: (7409394)-----	EA	4	*	*	*	*
81	4		P	O		5306-383-4957	STUD, SHOULDERED: S, CD-PLTD, 3/4-16UNF-3A, 1-5/32 IG (WHEEL HUB, RH) (8689831)	EA	20	*	*	*	*
81	4		P	O		5306-733-9239	STUD, SHOULDERED: S, CD-PLTD, 3/4-16UNF-3A, 1-5/32 LG (WHEEL HUB, 11) (8689832)	EA	20	*	*	*	*
81 (7409389)	5		P	O		5306-740-9389	BOLT, RIBBED SHOULDER: S, 7/16-20NF-3 X 1-1/2	EA	40	*	*	3.4	3.4
81	6		P	O		5310410-3322	WASHER, LOCK: SPLIT, S, 7/16 SCREW SIZE (103322)	EA	20	*	*	3.4	3.4
81	7		P	O		5310-283-0927	NUT, PLAIN, HEXAGON: S, 7/16-2B, 11/16 W, 3/8 THK (271505)	EA	40	*	*	3.4	3.4

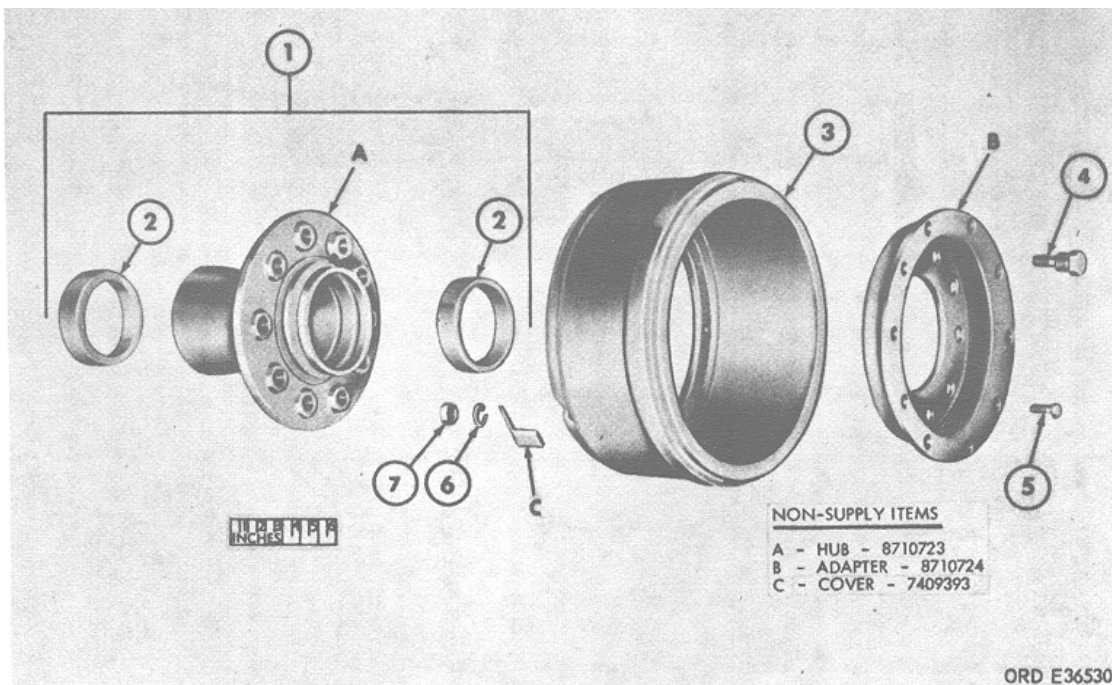


FIGURE 81. HUB AND DRUM ASSEMBLY - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) CODE FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erabil- ity				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED						
							AIR-HYDRAULIC LINES, COUPLINGS, FITTINGS AND VALVES (M131A3C) (FIG. 82)						
82	1	5	P	O		4730-95-0083	COUPLING, HALF, QUICK DISCONNECT: AIR BRAKE HOSE, ASSY (SEE ITEM 1, FIG. 87)	ea	2	*	*	3	3
82	2		P	O		4730-279-4616	ADAPTER, STRAIGHT, PIPE TO TUBE: COMPRESSION BALL SLEEVE (504265)	ea	2	*	*	*	*
82	3		P	O		4730-2784593	ADAPTER, STRAIGHT, PIPE TO TUBE: TUBE COMPRESSION SLEEVE, AIR SERVICE (504264)	ea	6	*	*	*	*
82	4	5	P	O		4730-2783869	ELBOW, PIPE TO TUBE: (504255)	ea	3	*	*	*	*
82	5		P	O	R	2530-562-8816	CHAMBER: AIR-HYDRAULIC BRAKE, ASSY (8735773) (SEE FIG. 85 FOR EXPLODED VIEW)	ea	2	*	*	*	*
82	6		P	O		4730-7373252	CONNECTOR, MULTIPLE, FLUID PRESSURE LINE: HYDRAULIC (7373252)	ea	2	*	*	*	*
82	7		P	O		2530-740-9331	HOSE: MASTER CYLINDER TO HYDRAULIC LINE TEE----- (7409331)	ea	2	*	*	.8	.8
82	8		P	O	R	2530-028-2600	VALVE: RELAY, EMERGENCY, ASSY (8330051)----- (SEE FIG. 88 FOR EXPLODED VIEW)	ea	1	*	*	5	5
82	9		P	O	R	2530-797-9295	FILTER: AIR, ASSY (7411022) (SEE FIG. 86 FOR EXPLODED VIEW)	ea	2	*	*	*	*
82	10		P	O	R	2530-278-2243	CYLINDER ASSEMBLY, HYDRAULIC: MASTER (8332086) (SEE FIG. 84 FOR EXPLODED VIEW)	ea	2	*	*	4	4
82	11	5	P	O		4710-277-5527	TUBE, COPPER: 0.35 WALL THK, 3/8 TUBE SIZE (AIR LINES) (63 FT) (44-T-5080-25)	ft	4	*	*	*	*
		5	P	O		4527-080-0500	NON-ILLUSTRATED ITEMS						
		5	P	O		4730-289-0155	COUPLING: PIPE, MI, GLVD, RH, 1/2 X 3/8-----	ea	2	*	*	.5	.5
			P	O		4730-100-0001	ELBOW, PIPE TO TUBE: (AIR LINES) (504257)	ea	2	*	*	*	*
			P	O			ELBOW, PIPE TO TUBE: br, 90 deg, 3/8 TUBE, 1/4NPTF MALE PIPE END	ea	3	*	*	.3	.3
			P	O	R	2530350-6749	VALVE: CHECK, EXHAUST, ASSY (7979297)-----	ea	1	*	*	.5	.5
		5	P	O		4820-276-9040	COCK, DRAIN: RESERVOIR (103647)-----	ea	1	*	*	*	*

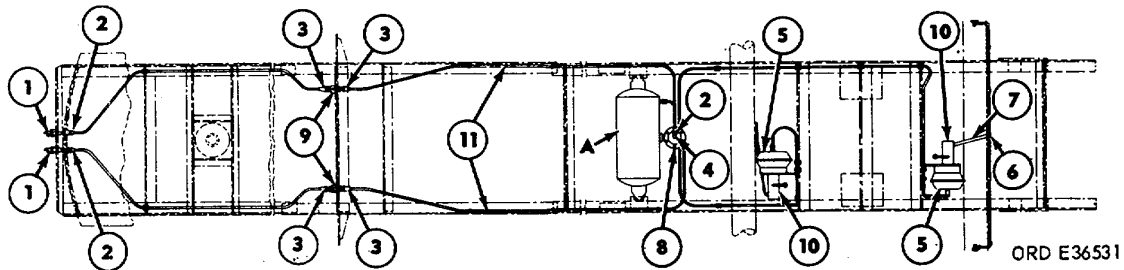


FIGURE 82. AIR-HYDRAULIC LINES, COUPLINGS, FITTINGS, AND VALVES - SCHEMATIC DIAGRAM.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
(M131A3C) (FIG 83)							AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED						
83	1		P	0		2530-737-3260	HYDRAULIC BRAKE WHEEL CYLINDER ASSY	EA	8	*	*	*	
83	2		P	F		2530-678-3331	NOTE: SEE ITEM 1, FIG 79, PAGE 100 BLEEDER VALVE, HYDRAULIC BRAKE: (7373260) PARTS KIT, HYDRAULIC BRAKE WHEEL CYLINDER ASSEMBLY: (5702385)	EA	:	1		*	
83	2.1						COMPOSED OF: 2 BOOT: (8720483) 2 CUP: (8720481)						
83	2.2						<u>HYDRAULIC TUBES AND FITTINGS</u> <u>NON-ILLUSTRATED</u>						
			P	0		5310-275-6635	GASKET: WHEEL CYLINDER INLET FITTING, INNER (5214539)	EA	8	1			
			P	0		5305-226-9093	SCREW, CAP, HEXACGON HEAD: LOW CARB S, PL-FIN, 3/8-24UNF-2A X 3/4, HYDRAULIC TEE TO AXLE (MS35290-58)	EA	2				
			P	0		2530-5634-2349	TUBE, ASSEMBLY, METAL, PREFORMED: TEE TO LEFT WHEEL CYLINDER (8730441)	EA	2				
			P	0		2530-534-2350	TUBE, ASSEMBLY, METAL, PREFORMED: TEE TO RIGHT WHEEL CYLINDER (8730440)	EA	2				
			P	0		2530-359-0458	WASHER, FLAT: WHEEL CYLINDER INLET FITTING (COPPER) (5214930)	EA	4	2.1 2.1			

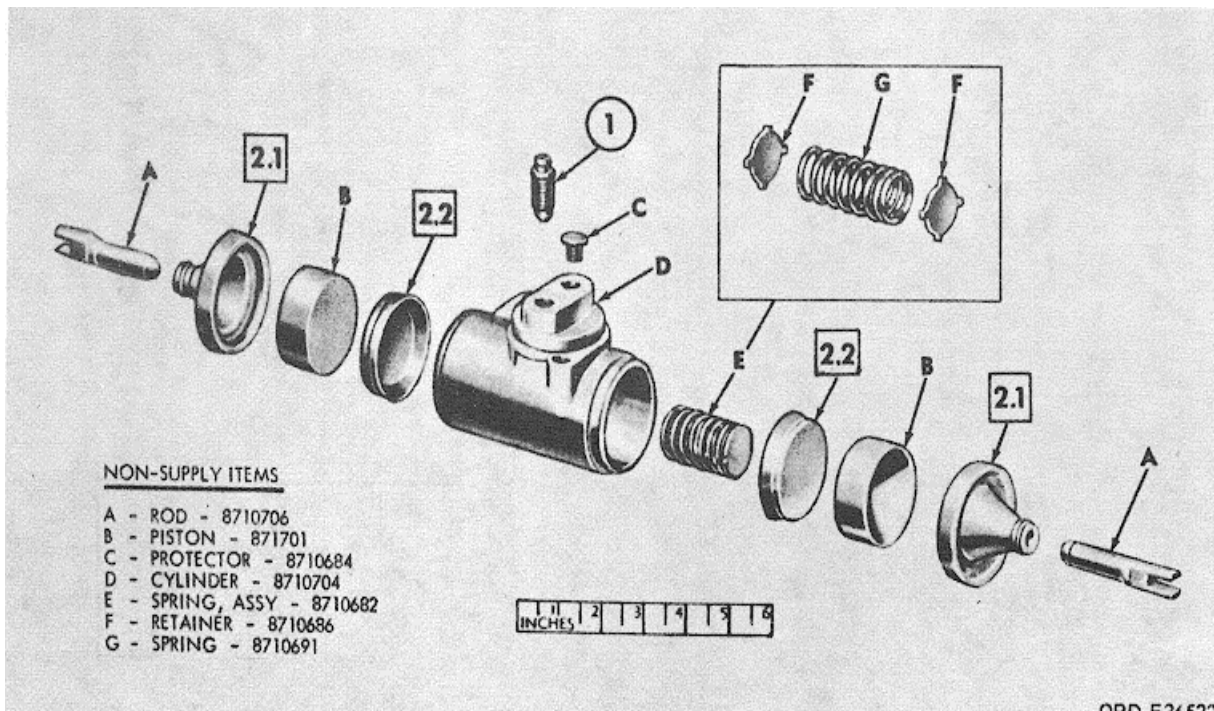


FIGURE 83. HYDRAULIC BRAKE WHEEL ASSEMBLY - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED</u>						
							<u>HYDRAULIC BRAKE MASTER CYLINDER</u> <u>(ML3A3C) (FIG 84)</u>						
							(NOTES: SEE ITEM 10, FIG 82, PAGE 104)						
84	1		P	F		2530-040-2877	KIT: REPAIR (MASTER CYLINDER) (8332646) COMPOSED OF: 1 BOOT: (63477-FC12235) 1 RING: (63477-FC1330) 1 PISTON: (63477-FC1338) 1 CUP: (63477-FC962)	EA	≠		5	5	
84	2		C	0		5330-737-3354	WASHER, FLAT: FILLER CAP (7373354) -----	EA	2	*	*	2.1	2.1
84	3		P	0		4730-535-1995	PLUG, MACHINE THREAD: DRAIN (8741419) -----	EA	1	*	*	2	2
84	4		C	0		5310-361-7052	WASHER, FLAT: HYDRAULIC HOSE (5156636) -----	EA	2	*	*	1	1

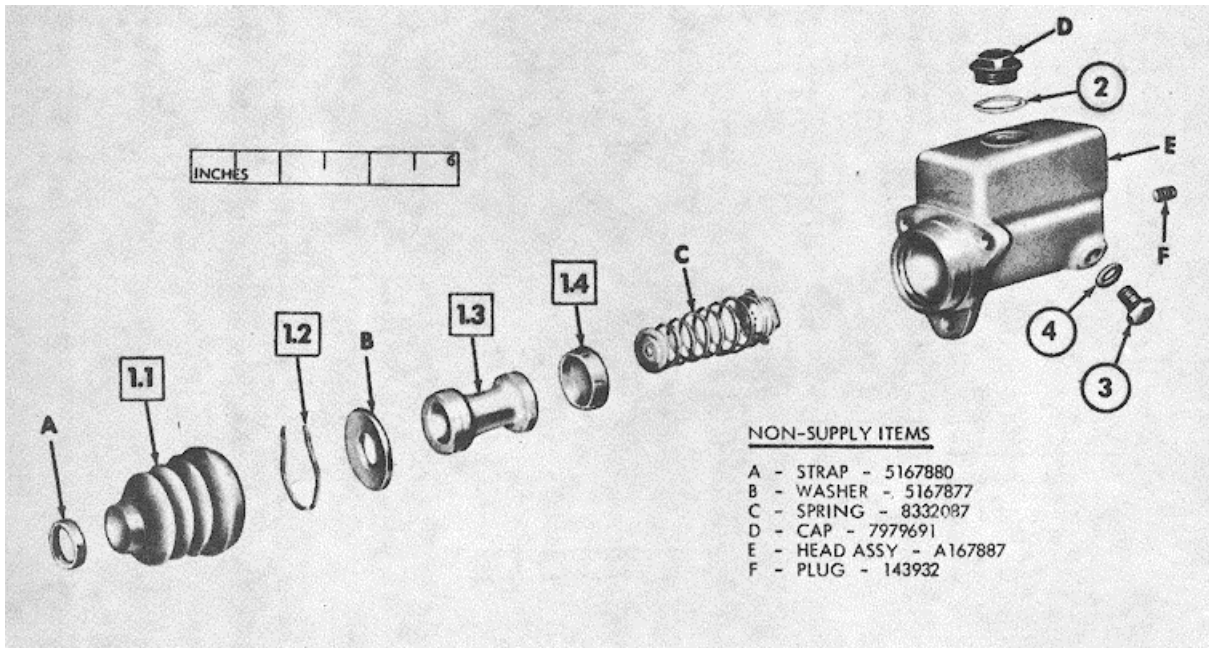


FIGURE 84. HYDRAULIC BRAKE MASTER CYLINDER - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
85	1 1.1 1.2 1.3 1.4 1.5 1.6		P	F		2530-040-2874	<u>AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED</u> <u>AIR CHAMBER (ML31A3C) (FIG 85)</u> (NOTE: SEE ITEM 5, FIGURE 82, PAGE 104) KIT: REPAIR, AIR CHAMBER (8332543)----- COMPOSED OF: 1 DIAPHRAGM: (40342-N2417) 1 SPRING: (40342-NI0673A) 1 SEAL: RING (40342-11728C) 4 WASHER: LOCK (40342-4X13) 4 NUT: (40342-2X30) 4 SCREW: (40342-4X13)	EA	:T	5	5		

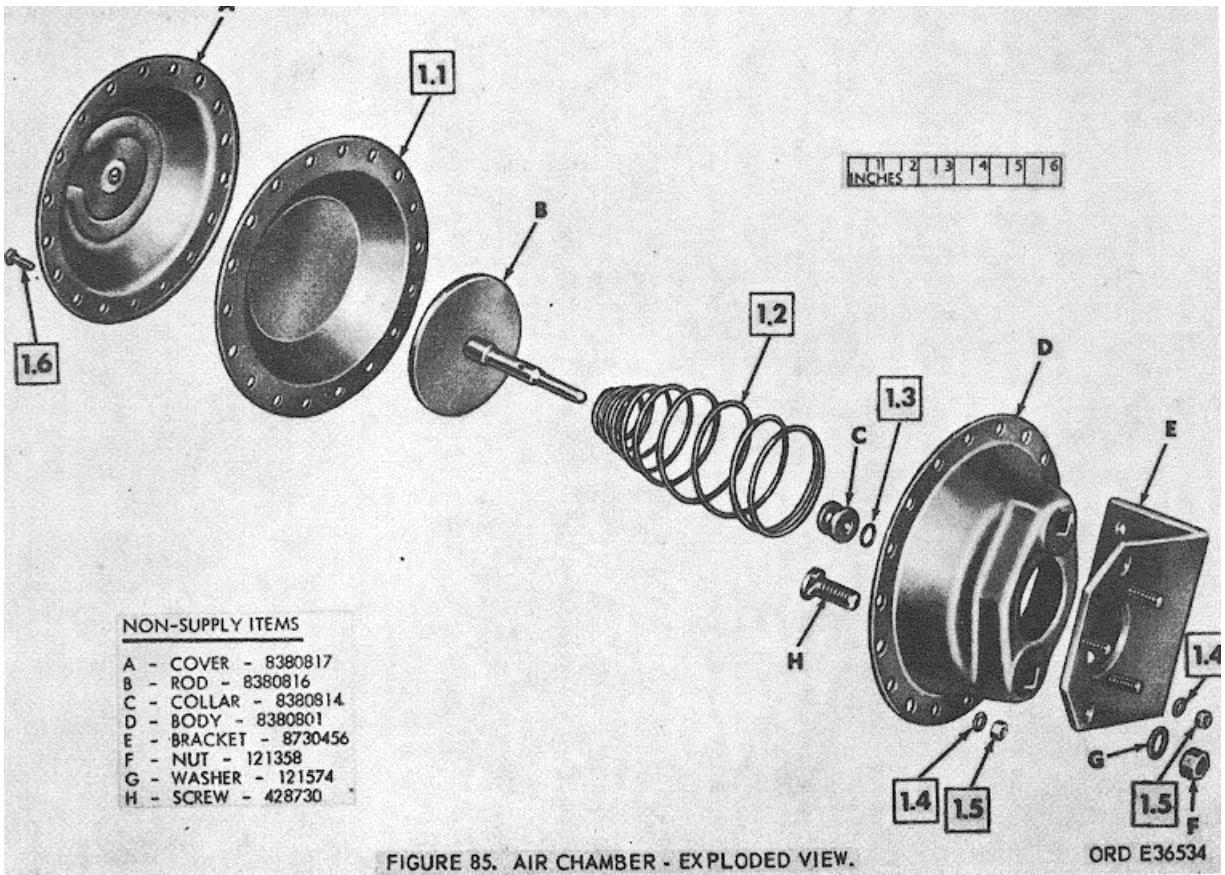


FIGURE 85. AIR CHAMBER - EXPLODED VIEW.
 FIGURE 85. AIR CHAMBER - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED</u>													
<u>AIR FILTER (M131A3C) (FIG 86)</u>													
86	1		P	0		5310-616-1288	(NOTE: SEE ITEM 9, FIG 82, PAGE 104)	EA	4	*	*	*	*
86	2		P	0		5310-012-1753	NUT, PLAIN, HEXAGON: AIR FILTER (MS35690-405)	EA	4	*	*	*	*
86	3		P	0		2530696-0351	WASHER, LOCK: AIR FILTER (MS35335-19) ----- KIT: REPAIR, AIR FILTER (40342-RN13A)-----	EA	+	*	8	8	
COMPOSED OF:													
1 ELEMENT: (40342-N12971)													
1 WASHER: (40342-4X509)													
1 SPRING: (40342-N12973)													
86	3.1						PLUG, PIPE: SQ HD, S, 1/8 IN-----	EA	2	*	+	5	5
86	3.2						BOLT, "U": STEEL, CD OR ZNC-PLTD, 2-7/16 IG INSIDE	EA	2	*	*	*	*
86	3.3						BEND TO END, 1/4-20NC-2, 1-5/8, (AIR FILTER)						
86	4	5	P	0		4730-278-3388							
86	5		P	0		5306-797-296							

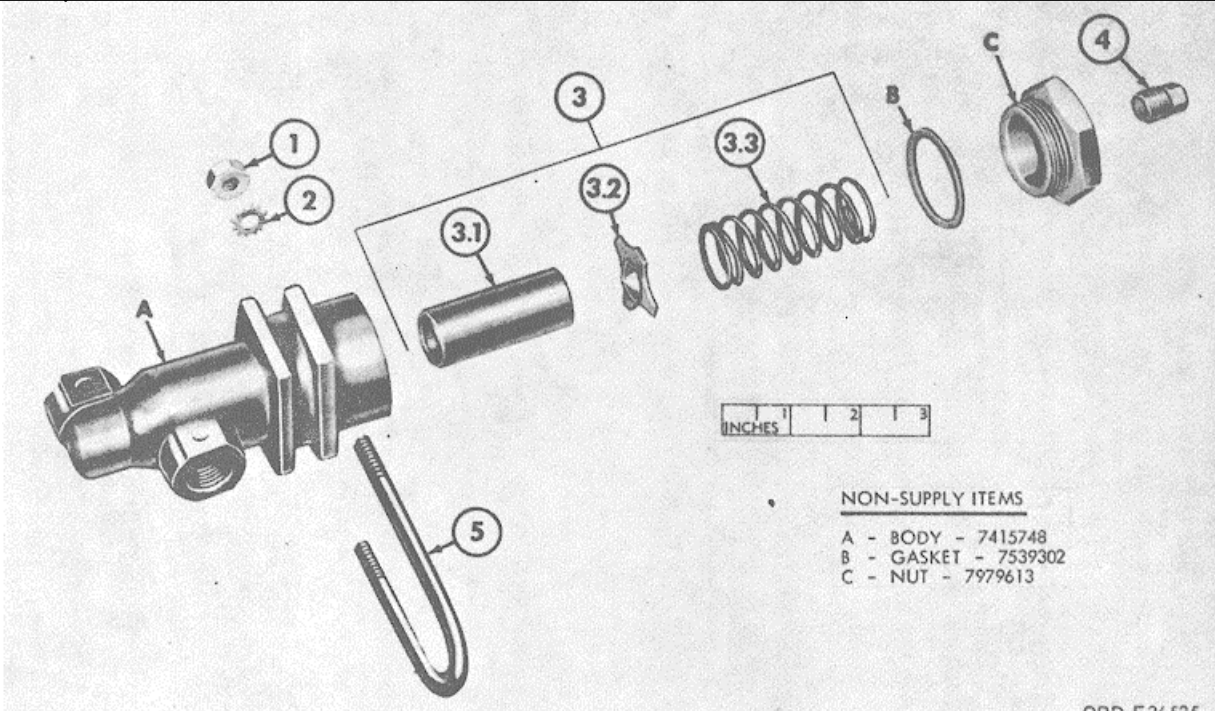


FIGURE 86. AIR FILTER - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
87	1						AXLE AND AIR-HYDRAULIC BRAKES - CONTINUED AIR HOSE COUPLING (M131A3C) (FIG 87)						
							COUPLING HALF, QUICK DISCONNECT: AIR BRAKE HOSE, ASSY (SEE ITEM 1, FIG DATA)	82 FOR REQUISITIONING					
87	2		P	0		4730-053-8826	RETAINER: AIR BRAKE HOSE COUPLING SPRING, S, CD- PLTD, 5/8-18NF-3 X 21/32 LG (538826)	ea	2	*	*	2	2
87	3		P	0		5340-597-0305	SPRING: AIR BRAKE HOSE COUPLING (538827) -----	ea	2	*	3	3	
87	4		P	0		2530-447-1107	PLUNGER: AIR BRAKE HOSE COUPLING (538825) -----	ea	2	*	*	3	3
87	5		P	0		2530-090-2128	PACKING, PREFORMED: AIR BRAKE HOSE COUPLING (538824)	ea	2	*	*	3	3
87	3		P	0		2530-7974-294	DUMMY COUPLING, AUTOMOTIVE AIR BRAKE HOSE: W/CHAIN, ASSY (23705-A297356)	ea	2	*	*	3	3

NON-SUPPLY ITEMS

- A - NIPPLE - 535619
- B - NUT - 124954
- C - TAG - 8376232
- D - TAG - 7979293
- E - ELBOW - 8330288
- F - CONNECTOR, ASSY - 504265
- G - CONNECTOR - 570051
- H - NUT - 504259
- J - SLEEVE - 504261
- K - PIN - 103726
- L - BODY - 500333

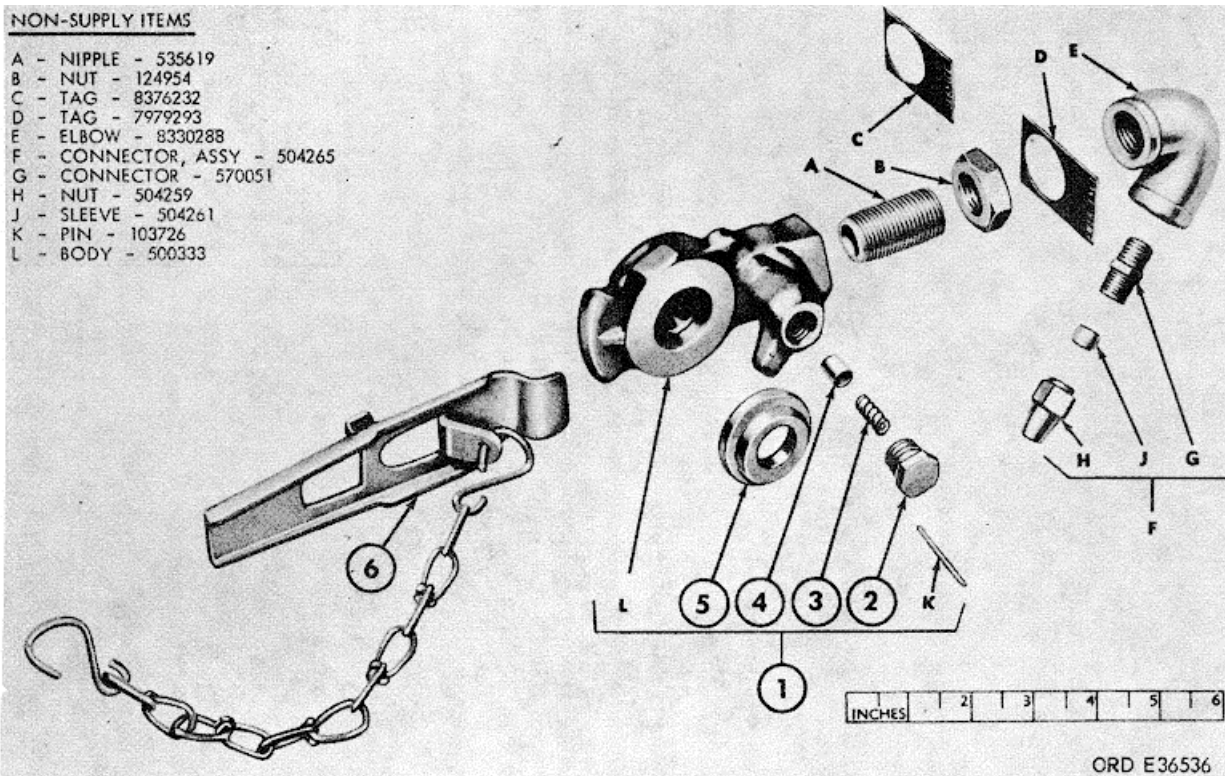


FIGURE 87. AIR HOSE COUPLING - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS				
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
88	5		P	F		2530-741-5750	RELAY EMERGENCY VALVE (FIG 88) (SEE ITEM 8, FIG 82, PAGE 104) PARTS KIT: RELAY EMERGENCY VALVE (7415750)----- EA COMPOSED OF:	P	5	5				
88	5.1						1 VALVE: (8674275)							
88	5.2						1 DIAPHRAGM: (8674283)							
88	5.3						1 SEAL: (500223)							
88	5.4						2 SEAL: (500229)							
88	5.5						1 DIAPHRAGM: (8674274)							
88	5.6						2 GASKET: (7539337)							

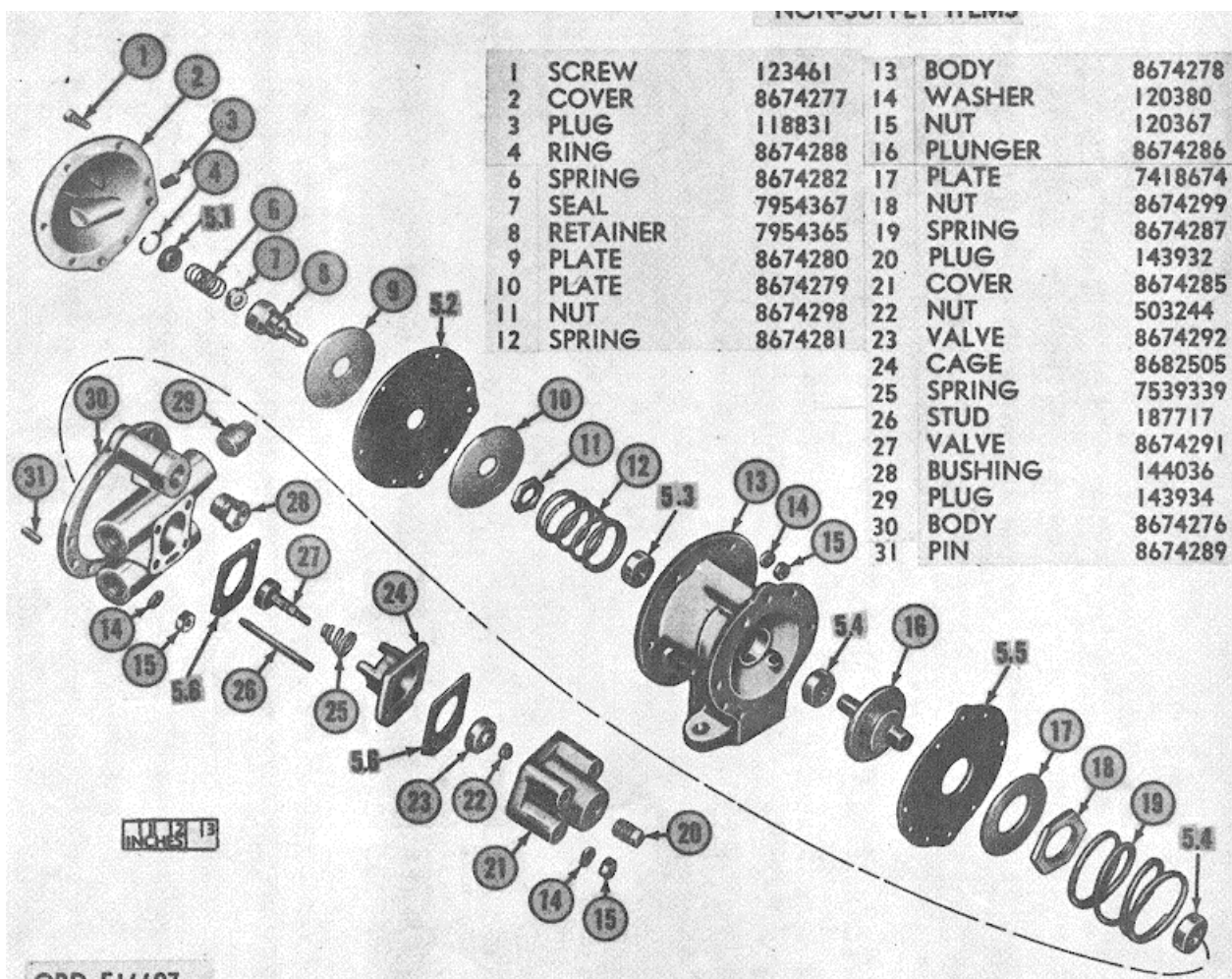


FIGURE 88. RELAY EMERGENCY VALVE - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
89	1		P	O		2640-0520944	<u>WHEELS- (M131A3C)</u> <u>WHEELTIRE AND TUBE (FIG 89)</u> CAP, TIRE VALVE: 302-32 FEMALE THD, 5/8 O/A IG, SEALING TYPE (520944)	EA	8	*	*	5	5
89	2		P	O		2640-050-1229	VALVE CORE, PNEUMATIC TIRE: STAINLESS S HIGH TENSION, STD SIZE, OPTIONAL STD OR SHORT IG (501229)	EA	8	*	*	1.3	1.3
89	3		P	O	R	2610-051-9450	INNER TUBE, PNEUMATIC TIRE: 11.00 - 20, VALVE NO 78A, VALVE LOCATION ON CENTER OF TUBE (9606 MS35392-15)	EA	8	1.0	1.0	1.7	9
89	4		P	O	R	2610-262-8653	TIRE, PNEUMATIC: 11:00-20, 12 PLY, NYLON CORD, LUG TYPE THREAD (96906 MS35338-21)	EA	8	*	*	4	4
89	5		P	O		R 2530-603-5768	WHEEL: W/RING, ASSY (7388820) -----	EA	8	*	*	*	*
89	6		C	O		2530-738-9061	RING, SIDE, AUTOMOTIVE WHEEL: (7389061)	EA	8	*	*	*	*

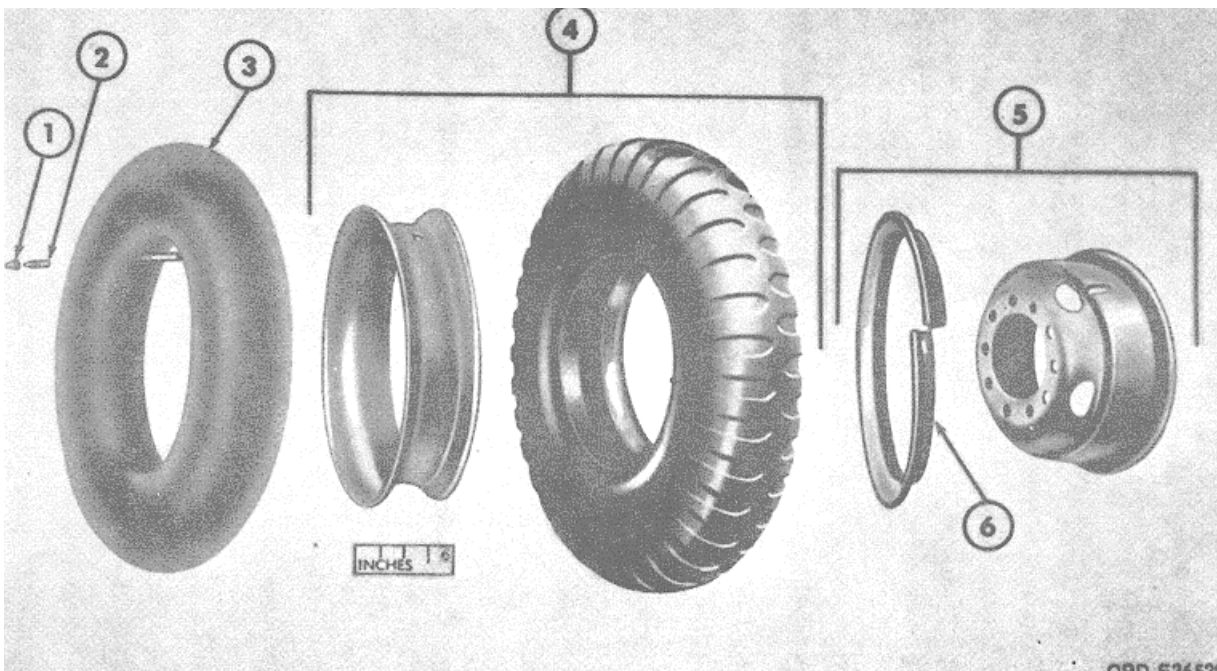


FIGURE 89. WHEEL, TIRE AND TUBE.

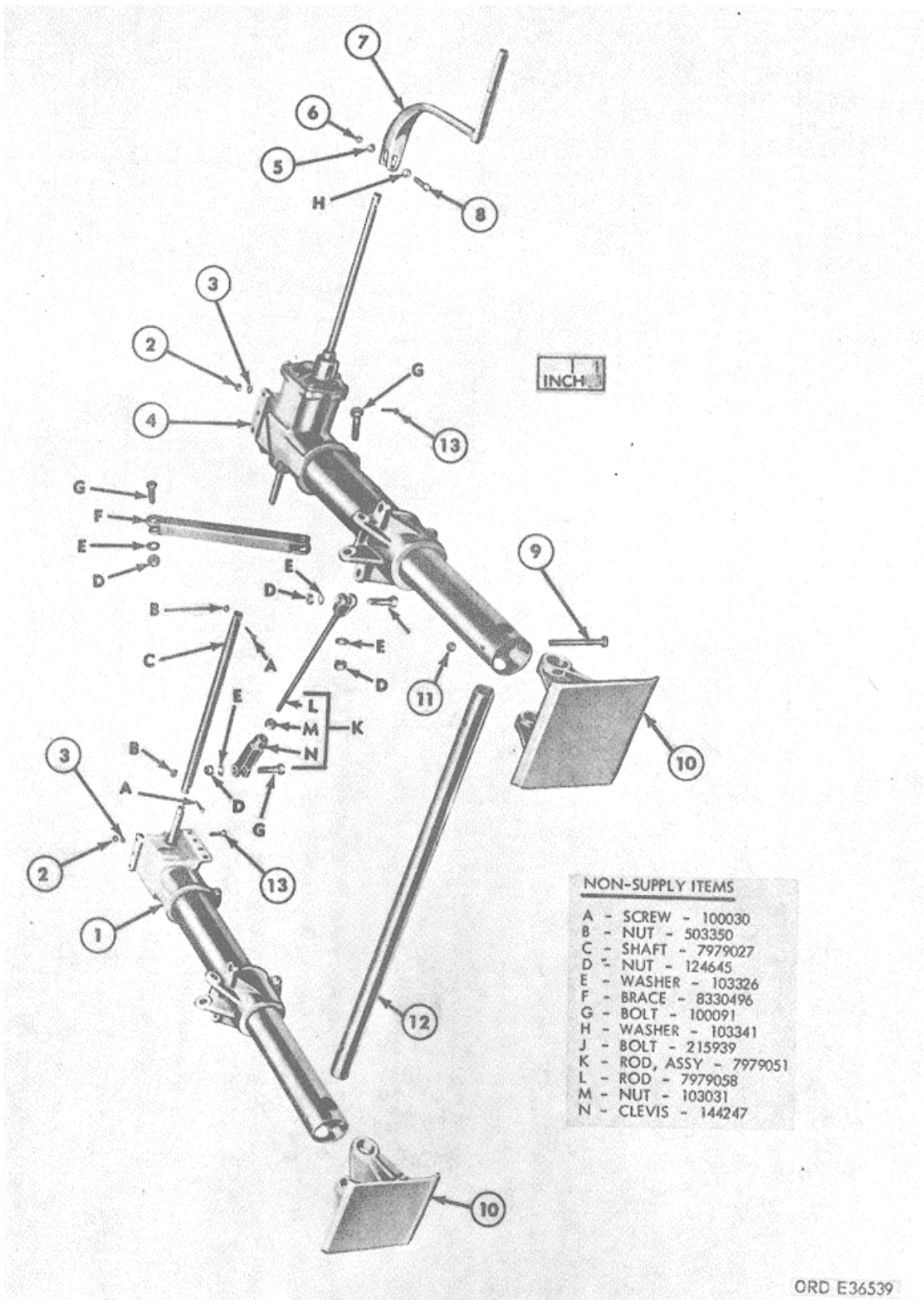


FIGURE 90. LANDING GEAR ASSEMBLY - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>LANDING GEAR - (M131A3C)</u>						
							<u>LANDING GEAR ASSEMBLY (FIG 90)</u>						
90	1		P	O		R 2530-534-2338	LEG, RETRACTABLE SUPPORT: W/GEAR BOX ASSY (RIGHT)(8724590)(SEE FIG 91 FOR EXPL VIEW OF LEG ASSY AND FIG 93 FOR EXPL VIEW OF RT GEAR BOX ASSY)	ea	1	*	*	*	
90	2		P	O		5310-579-2045	NUT, PLAIN, HEXAGON: LOW-CARB-S, 1/2-20UNF-2B, 3/4 W, 7/16 THK (96906-35690-823)	ea	14	*	*	1.8 1.8	
90	3		P	O		5310-584-5272	WASHER, LOCK: SPLIT, S, 1/2 BOLT SIZE (96906-35338-29)	ea,	14	*	*	1.8 1.8	
90	4		P	O		2530-534-2337	LEG, RETRACTABLE SUPPORT: W/GEAR BOX ASSY (LEFT) (8724591) (SEE FIG 91 FOR EXPL VIEW OF LEG ASSY AND FIG 92 FOR EXPL VIEW OF IT GEAR BOX ASSY)	ea	1	*	*	* *	
90	5		P	O		5310-012-0394	WASHER, FLAT: S, 13/32 ID, 13/16 OD, 0.065 THK, FOR 3/8 SCREW SIZE (120394)	ea	1	*	*	3 3	
90	6		P	O		5310-012-0368	NUT, PLAIN, HEXAGON: S, 5/16-24UNF-2B, 1/2 W, 17/64 THK (120368)	ea	1	*	*	* 3	
90	7		P	O		2540-426-9958	CRANK: LANDING GEAR, W/HANDLE AND PIN, ASSY (7068315)	ea	1	*	*	2 2	
90	8		P	O		5305-706-8318	BOLT, SHOULDER: HEX-HD, S, 5/16-24NF-2 X 11/32 FULL THD, 3/8 DIA X 1-15/16 SHOULDER, 2-5/8 OVER-ALL (23705-6131747)	ea	1	*	*	* 3	
90	9		P	O		5305-010-0060	SCREW, CAP, HEXAGON HEAD: LOW-CARB-S, 1/2-20 UNF -2A X 5 (100060)	ea	2	*	*	3 3	
90	10		P	O		2530-797-9015	FOOT: LANDING GEAR (7979015) -----	ea	2	*	*	* *	
90	11		P	O		5310-275-2049	NUT, SELF-LOCKING, HEXAGON: S, 1/2-20UNF-38, 3/4 W, 19/32 THK (CRITICAL INSTALIATION)(MS20365-820C)	ea	2	*	*	3 3	
90	12		X2	O	R	2530-534-2336	AXLE, VEHICULAR, NON-DRIVING: RETRACTABLE SUPPORT (8724596)	ea	1	*	*	* *	
90	13		P	O		5305-207-4534	SCREW, CAP, HEXAGON HEAD: LOW-CARB-S, 1/2-20UNF-2A X 1-1/2 (96906-35292-113)	ea	14	*	*	1.8 1.8	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>LANDING GEAR - CONTINUED</u> <u>LANDING GEAR LEG (M131A3C) (FIG 91)</u>						
91	1		P	O		2530-534-2351	FELT STRIP: RETRACTABLE SUPPORT (7979049) -----	EA	2		*	*	*
91	2		P	F		5310-736-6485	NUT, PLAIN, HEXAGON: JAM RETAINING, BEVEL GEAR (7366485)	EA	2			*	*
91	3		P	F		2530-7979023	GEAR, BEVEL: OPERATING SCREW SHAFT (7979023) ---	EA	2	*	*		
91	4		P	F		3110-100-3700	CONE AND ROLLERS, TAPERED ROLLER BEARING: OPERATING SCREW SHAFT (UPPER) (705363)	EA	2			8	8
91	5		P	F		3110-100-0637	CUP, TAPERED ROLLER BEARING: SCREW SHAFT (UPPER) (706797)	EA	2			8	8
91	6		P	F	R	2530-797-9032	SCREW: OPERATING, W/BEARING AND BEVEL GEAR, ASSY (7979032)	EA	2			2	2
91	7		P	F		3110-100-0585	CUP, TAPERED ROLLER BEARING: MIL-STD-CODE 711-43312-1000 (706892)	EA	2			8	8
91	8		P	F		3110-100-3598	CONE AND ROLLERS, TAPERED ROLLER BEARING: OPERATING SCREW SHAFT (LOWER) (705496)	EA	2			8	8
91	9		P	F		5315-012-4552	KEY, WOODRUFF: ALLOY-S, 3/16 X 1 (124552) ----	EA	2			3	3
91	10		P	F		2530-534-2344	SEAL, PLAIN ENCASED: OIL, LOWER BEARING, LANDING LEG ASSY (7979003)	EA	2			*	*
91	11		P	F		5310-797-9018	NUT: OPERATING SCREW SHAFT (7979018) -----	EA	2			3	3
91	12		P	F		2530-79749006	RETAINER: SCREW BRONZE SHAFT NUT (7979006) ----	EA	2			*	*

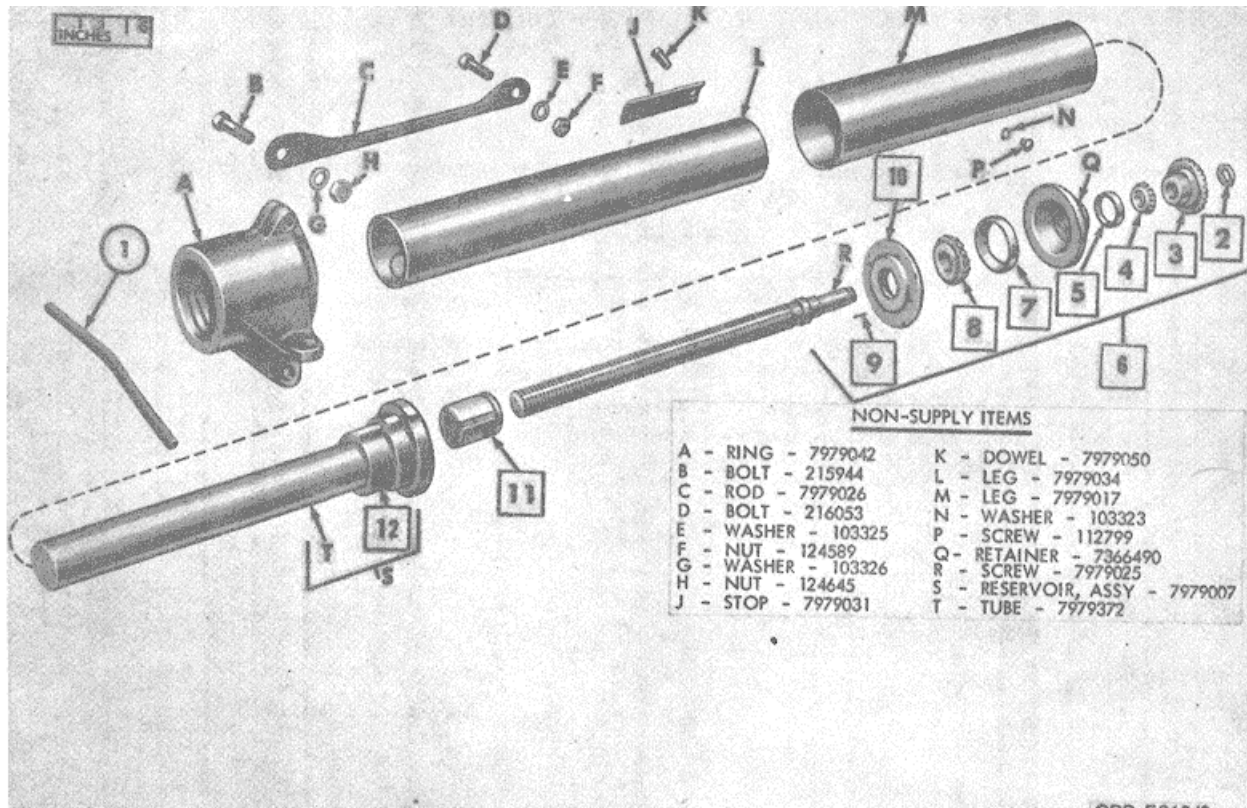


FIGURE 91. LANDING LEG - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							LANDING GEAR - CONTINUED LEFT LANDING GEAR LEG GEAR BOX (ML31A3C) (FIG 92)						
92	1		P	F		3110-151-8176	BEARING, BALL ANNULAR (709692) -----	ea	2		1.7	17	
92	2		P	F		5340-281-3613	RING, RETAINING: GEAR BOX DRIVEN SHAFT (583000)---	EA	2		*	*	
92	3		P	F		5315-0124552	KEY, WOODRUFF, ALLOY S, 3/16 X 1 (124552) ----	ea	1		3	3	
92	4		P	F		2530-569-9882	GEAR, BEVEL: LEFT GEAR BOX DRIVE SHAFT (7979024)---	ea	1		1	1	
92	5		P	O		4730-0504208	FITTING, LUBRICATION: STGHT, HYD S, 1/8 NPTF MALE SHORT	ea	1	*	*	3	3

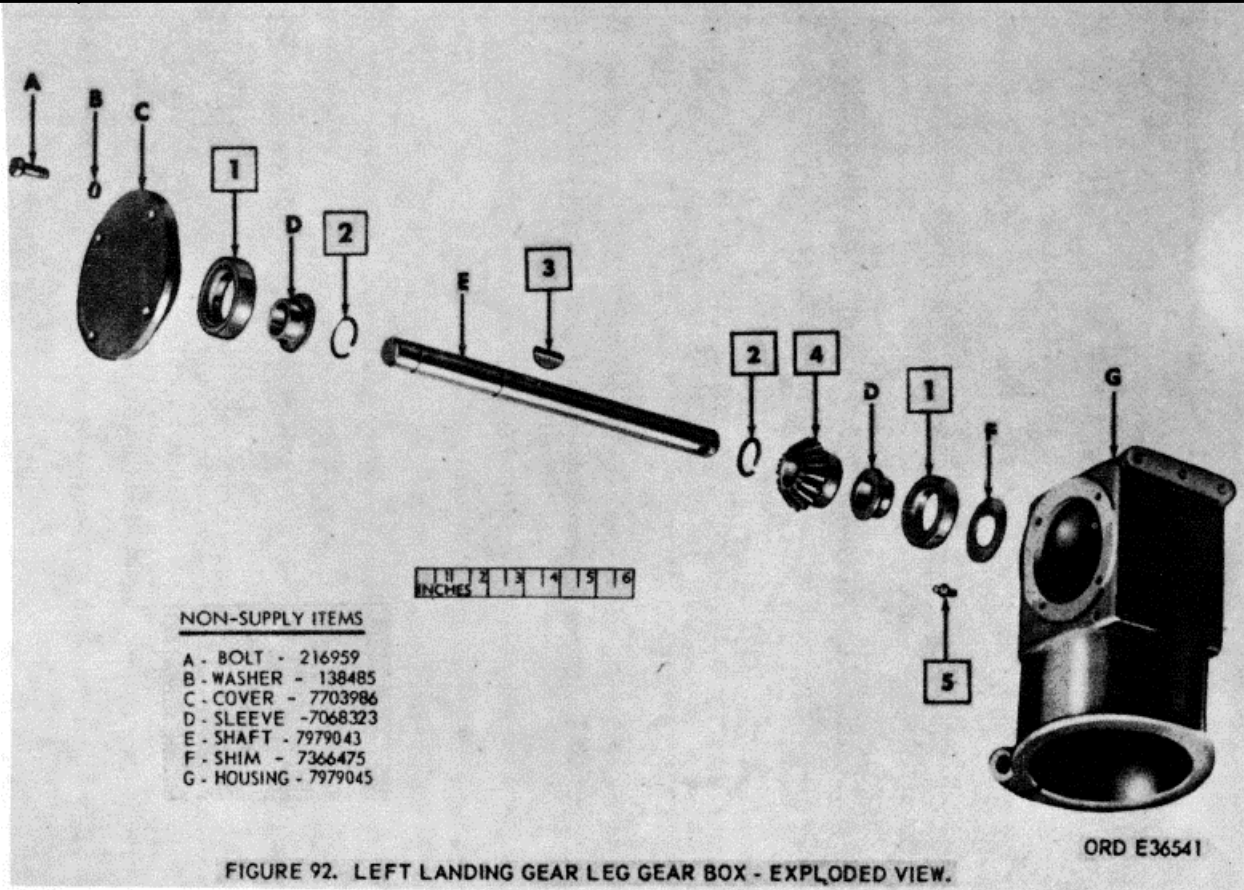


FIGURE 92. LEFT LANDING GEAR LEG GEAR BOX - EXPLODED VIEW.

FIGURE 92. LEFT LANDING GEAR BOX - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							LANDING GEAR - CONTINUED RIGHT LANDING GEAR LEG GEAR BOX (M131A3C) (FIG 93)						
93	1		P	F		2530-736-6475	SHIM: GEAR BOX BEARING (7366475) -----	EA	1		*	*	
93	2		P	F		3110-151-8176	BEARING, BALL ANNULAR (709692)-----	EA	2		1 7	1 7	
93	3		P	F		5315-012-0502	-KEY, WOODRUFF, ALLOY S, 3/16 X 7/8 (120502)---	EA	2		3	3	
93	4		P	F		2530-797-9019	GEAR, BEVEL: GEAR BOX (17 TEETH) (7979019)-----	EA	1		*	*	
93	5		P	F		3110-112-5803	BEARING, ROLLER, NEEDLE: OPERATING SHAFT (709436)	EA	2		8	8	
93	6		P	F		2530-534-2342	SEAL, PLAIN ENCASED: PREFORMED, GEAR BOX DRIVE SHAFT SLEEVE, RIGHT (7979038)	EA	1	*	*	*	
93	7		P	F		2530-797-029	SLEEVE: OPERATING SCREW SHAFT (7979029) -----	EA	1		*	*	
93	8		P	F		5340-281-1198	RING, RETAINING: SHAFT SLEEVE AND BEARING(583389)	EA	2		*	*	
93	9		P	O		4730-0504208	FITTING, LUBRICATION: STGHT, HYD S, 1/8 NPTF, MALE SHORT	EA	1	**	3	3	
93	10		P	F		5315-050-5682	KEY, MACHINE: SQ END, S, 3/16 X 3/16 X 1-5/8 (DRIVE SPUR GEAR)	EA	2		3	3	
93	11		P	F		2530-797-9021	GEAR, SPUR: DRIVE, GEAR BOX (12 TEETH) (0979021) ---	EA	1		*	*	
93	12		P	F		2530-797-9022	GEAR, SPUR: DRIVE (28 TEETH) LANDING GEAR (7979022)-	EA	1	*	*	*	
93	13		C	F		5340-281-2911	RING, RETAINING: HIGH SPEED DRIVE SHAFT (583382)---	EA	1			*	
			P	F		2530-569-9881	NON-ILLUSTRATED ITEMS GEAR, SPUR: LOW SPEED GEAR BOX DRIVE SHAFT RIGHT	EA	1		*	*	
			P	F		5315-058-6023	PIN, SPRING: S, CO-OR-ZN PLTD 0.0375 DIA., 2 LG, DRIVE SHAFT BEVEL PINION GEAR	EA	1	*	1	1	

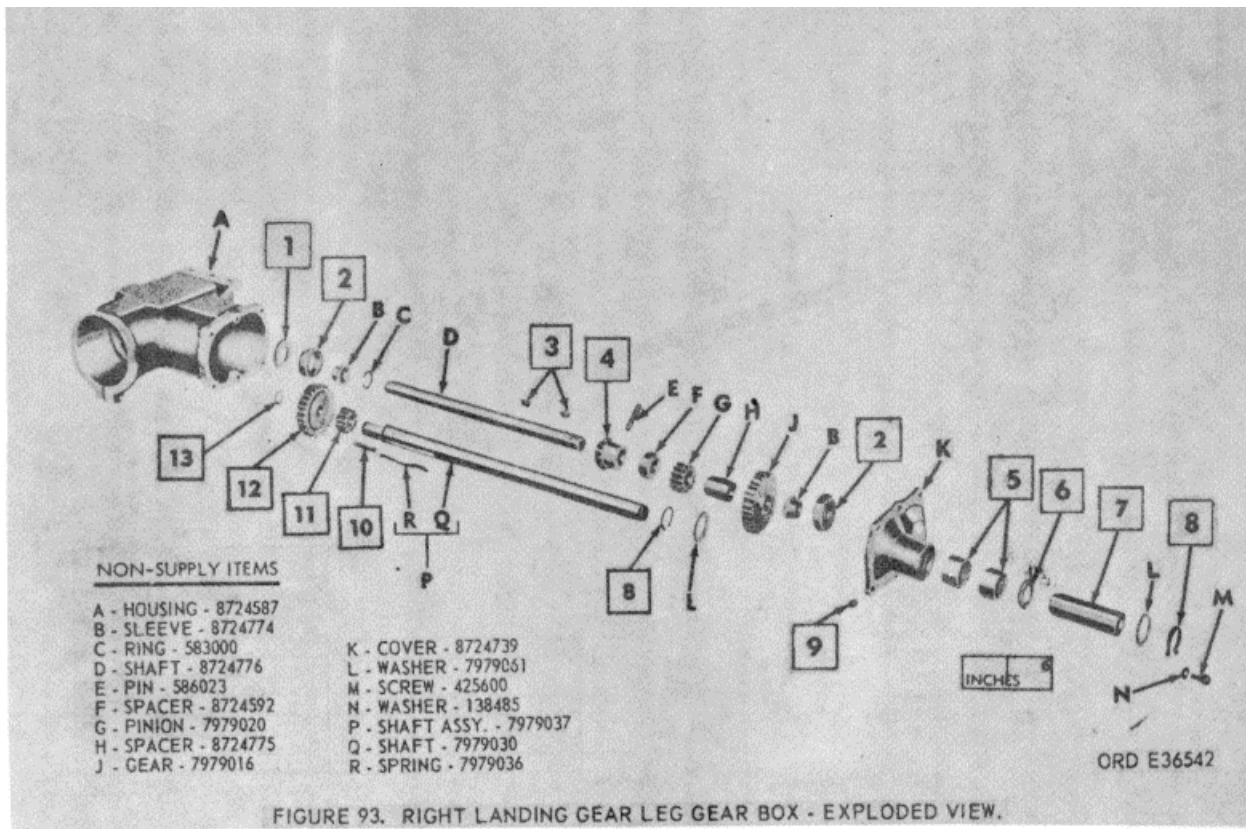


FIGURE 93. RIGHT LANDING GEAR LEG GEAR BOX - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>SUSPENSION - (ML31A3C)</u> <u>SPRING SEAT AND BEARINGS (FIG 94)</u>						
94	1		P	O		5306-012-0834	SCREW, CAP, HEXAGON HEAD: LOW-CARB-S, 5/16-18UNC-2A X 1/2 (120834)	ea	12	*			
94	2		P	O		5310-012-0214	WASHER, LOCK: SPLIT, S, 5/16 SCREW SIZE (120214)	ea	12	*	*	*	
94	3		P	O		2510-740-9391	COVER PLATE, ACCESS: OUTER BEARING (7409391)	ea	2	*	*		
94	4		P	O		2510-740-9600	GASKET: SEAT BEARING CAP (7409600) -----	ea	2	*	3	3	
94	5		C	O		5310-353-2427	NUT, PLAIN, OCTAGON: SPRING SEAT BEARING (7346885)	ea	2	*	**	*	
94	6		C	O		5310-700-7089	WASHER, KEY: LOCK, HOUSING (700789) -----	ea	2	*	*	*	
94	7		C	O		5310-353-2297	NUT: ADJUSTING, SPRING SEAT BEARING (7409603) ----	ea	2	*	*	*	*
94	8		P	O		3110-100-0649	CONE AND ROLLERS, TAPERED ROLLER BEARING: OUTER (705155)	ea	2	*	*	5	5
94	9		P	O		3110-142-4390	CUP, TAPERED ROLLER BEARING: (SPRING SEAT) (706691)	ea	4	*	*	5	5
94	10		P	O		2510-741-8773	SEAT: SPRING, W/BEARING CUPS, ASSY (7979312)	ea	2	*	*		
94	11		P	O		5306-575-5419	BOLT, "U": SPRING (8741539)-----	ea	4	*	*	*	*
94	12		P	O		5310-013-1050	WASHER, LOCK: SPRING SEAT (131050) -----	ea	4	*	*	*	*
94	13		P	O		5306-740-9608	BOLT, MACHINE: RETAINING, SPRING SEAT (7979329)	ea	4	*	*		
94	14		P	O		2520-740-9550	SEAL, PLAIN, ENCASED: OIL, SPRING SEAT, ASSY (7409550)	ea	2	*	*	8	8
94	15		P	O		2530-740-9553	WIPER: HUB BEARING, OIL SEAL (7409553)-----	ea	2	*	2	2	
94	16		P	O		2510-7409606	RETAINER, PACKING: OIL, SEAT, FELT (7409606) - -	ea	2	*	*	3	3
94	17		P	O		5330-740-9312	FELT: OIL, SEAT (7409312) -----	ea	4	*	*	1.7	1.7
94	18		P	O		5310-740-9615	WASHER, FLAT: SEAT, OIL SEAL (7409615)-----	ea	2	*	*	3	3
94	19		P	O		3110-198-1468	CONE AND ROLLERS, TAPERED ROLLER BEARING: INNER (712286)	ea	2	*	*	5	5
94	20		P	O		5310-013-1144	WASHER, LOCK: SPLIT, "U" BOLT (131144) -----	ea	8	*	*	*	*
94	21		P	O		5310-700-7127	NUT, PLAIN, HEXAGON: "U" BOLT (7007127) -----	ea	8	*	*	*	*

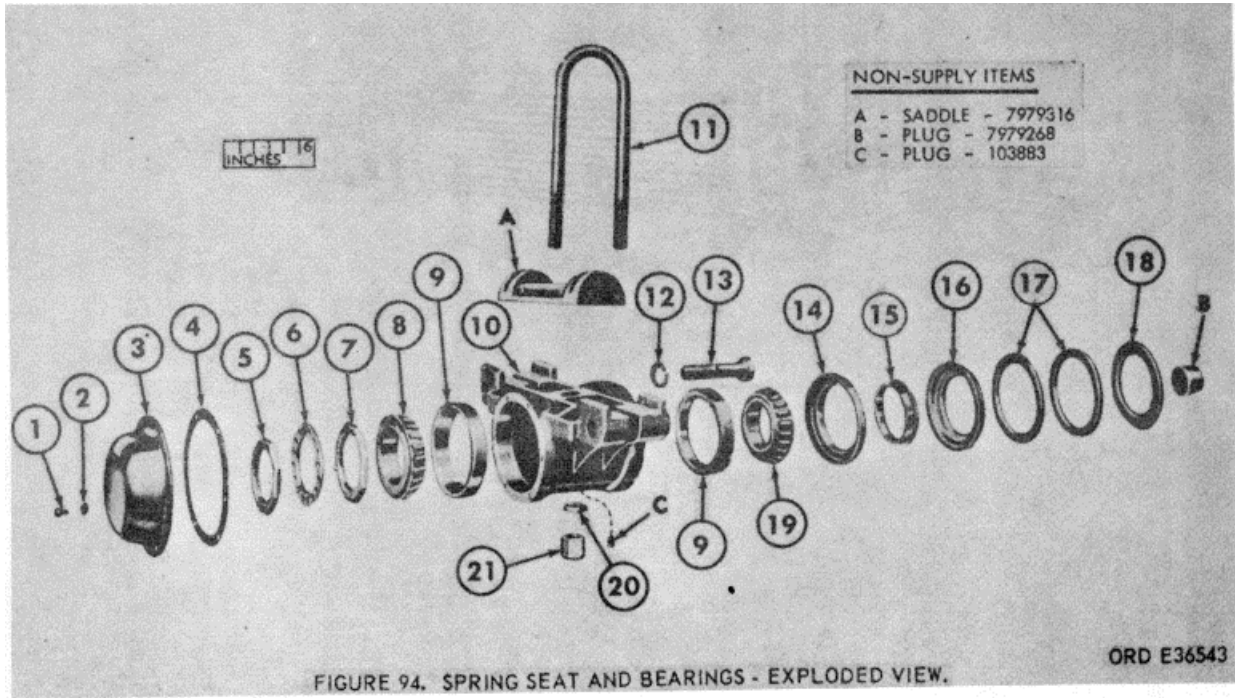
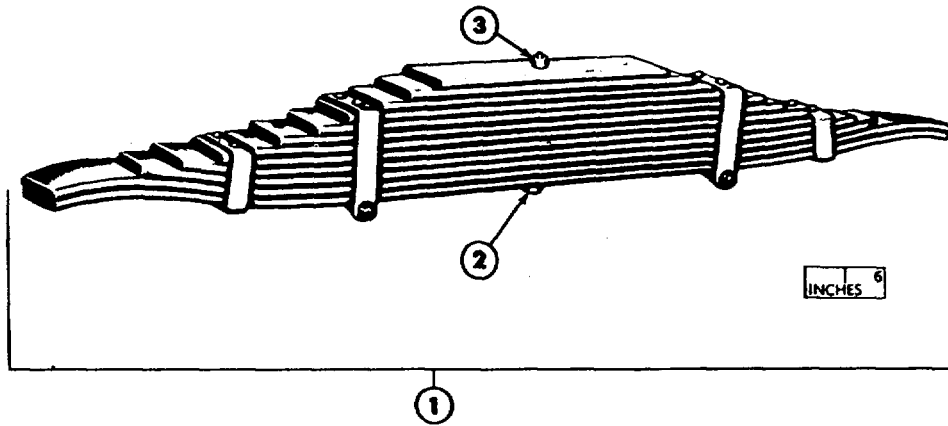


FIGURE 94. SPRING SEAT AND BEARINGS - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
95	1		P	O		5306-206-7279	<u>SUSPENSION - CONTINUED</u> <u>SPRING ASSEMBLY (M131A3C) (FIG 95)</u> BOLT, MACHINE: CENTER, SPRING (7979425) ---- --	EA	2	*	*	*	*
95	2		P	O		5310-010-3028	NUT, PLAIN, HEXAGON: SPRING CENTER BOLT (103028)	EA	2	*	*	*	*
95	3		P	O	R	2510-797-9217	SPRING ASSEMBLY, LEAF: (7979217) ----- --		2	*	*	*	



ORD E36544

FIGURE 95. SPRING ASSEMBLY.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>SUSPENSION - CONTINUED</u> <u>TORQUE RODS AND BRACKETS</u> <u>(M131A3C) (FIG 96)</u>						
96	1		P	O		2530-797-4189	TORQUE ROD, TANDEM AXLE: ASSY (7979189) --	EA	6	*	*	*	*
96	2		P	O		2530-740-94620	BALL: W/BUSHING, ASSY (7409620) -----	EA	12	*	*	2	2
96	3		X2	O		2530-797-224	BRACKET: TORQUE ROD (7979224) -----	EA	6	*	*	*	*
96	4		P	O		5315-013-7273	PIN, COTTER: TORQUE ROD (137273) -----	EA	12	*	*	*	*
96	5		P	O		5310-740-9621	NUT, SLOTTED, HEXAGON: TORQUE ROD (7409621)	EA	12	*	*	*	*
96	6		P	O		2510-734-6999	PLATE: REAR AXLE, SPRING GUIDE, BRACKET (7346999)	EA	4	*	*	4	4
96	7		P	O		5306-797-9338	BOLT, MACHINE: TORQUE ROD BRACKET (7979338) --	EA	24	*	*	*	*
96	8		P	O		5310-010-3333	WASHER, LOCK: SPLIT, BOLT SIZE TORQUE ROD BRACKET (103333)	EA	24	*	*	*	*
96	9		P	O		5310-753-7018	NUT, PLAIN, HEXAGON: TORQUE ROD BRACKET BOLT (MS35690-1424)	EA	24	*	*	*	*

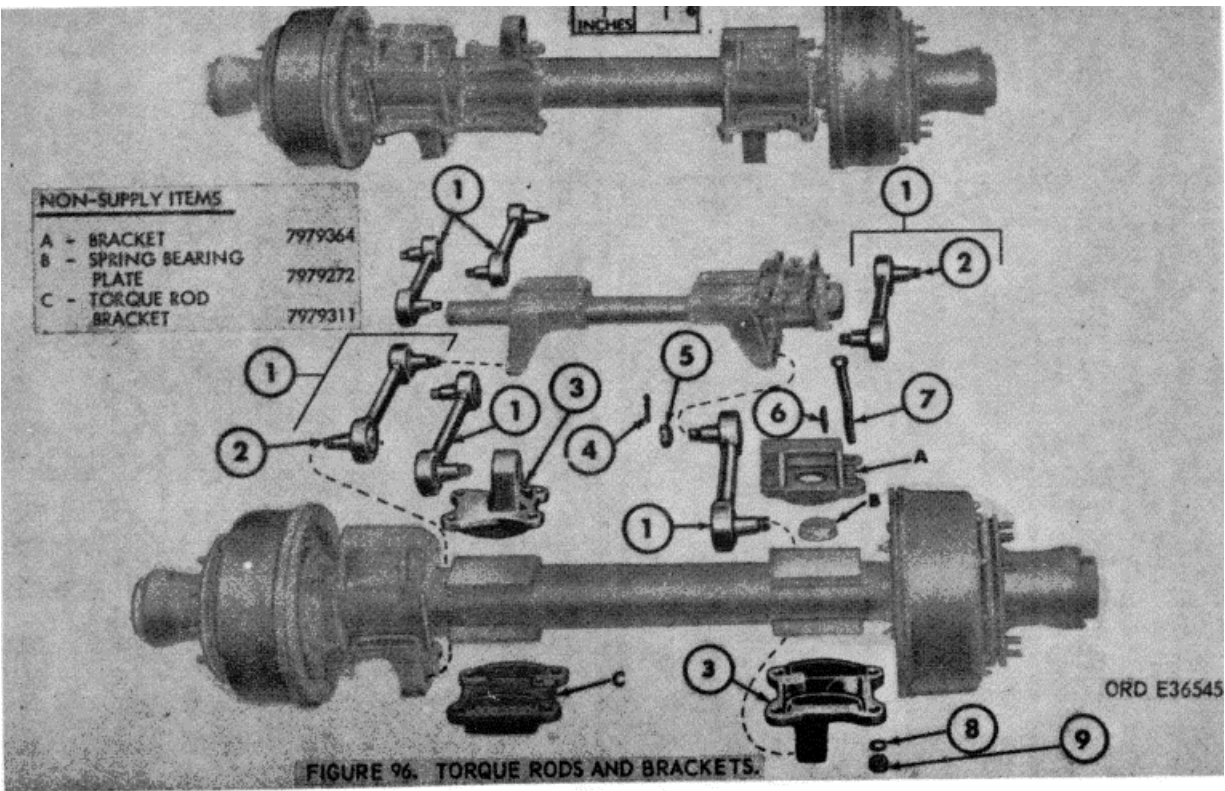
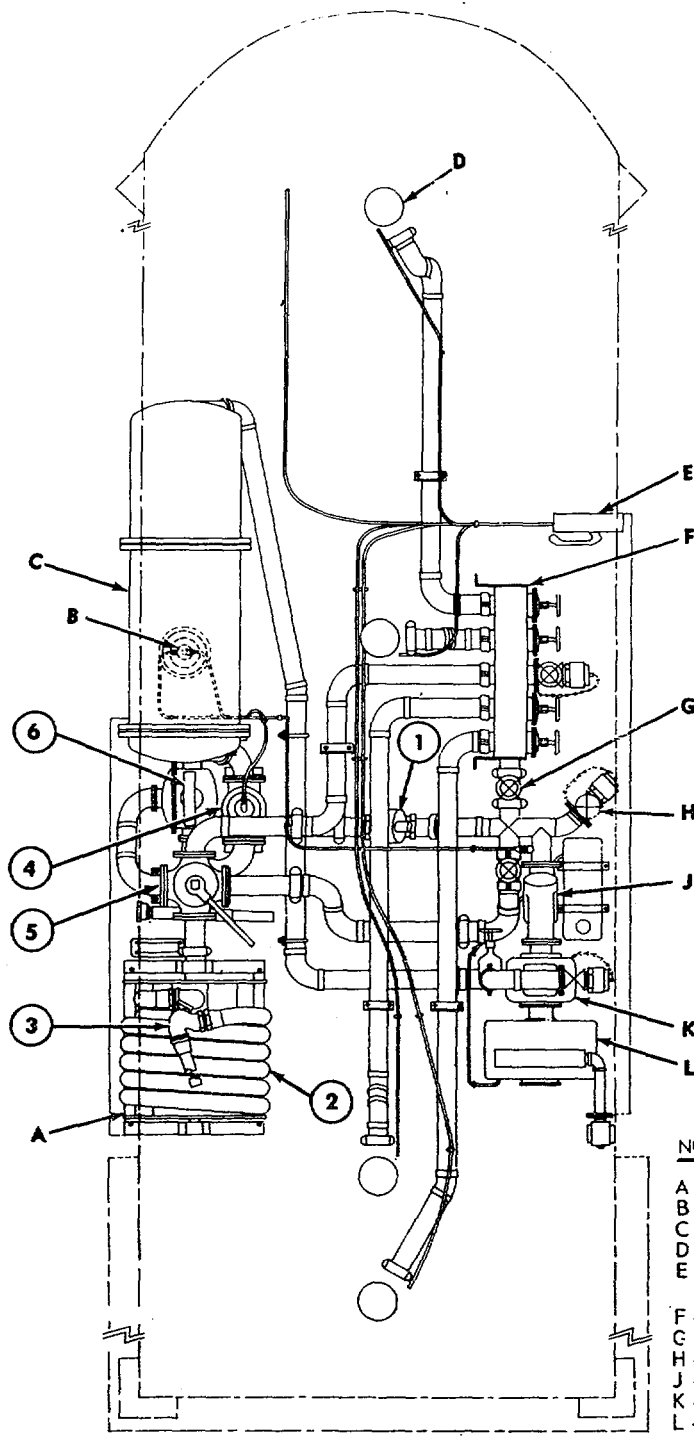


FIGURE 96. TORQUE RODS AND BRACKETS.



NON-SUPPLY ITEMS

- A - HOSE REEL - 10917217
- B - AUTOMATIC DRAIN VALVE -
- C - SEGREGATOR ASSY. - 10910681
- D - EMERGENCY VALVE - 7739664
- E - EMERGENCY VALVE CONTROL
- 7739688
- F - MANIFOLD ASSY. - 7739521
- G - GATE VALVE - 7739690
- H - GATE VALVE - 7739689
- J - SEDIMENT STRAINER - 8360441
- K - PUMP - 7739779
- L - AUXILIARY ENGINE - 10910600

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FIGURE 97. PIPING ASSEMBLY.
120

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a)	(b)	(c)	(d)	
									CO OR BRTY	SEP CO SEP BN OR REGT	3rd ECH (DIR SUP)	4th ECH (GEN SUP)	
							<u>GASOLINE TANK - (M131A3C)</u>						
							<u>PIPING ASSEMBLY (FIG 97)</u>						
97	1		P	O		2590-854-4455	VALVE ASSY: ADJUSTABLE, BY-PASS, 3-INCH (10913212) (SEE FIG 106 FOR EXPLODED VIEW)	EA	1	*	*	1	1
97	2		P	O		2590-854-4454	HOSE ASSY: RUBBER (10913216) -----	EA	1	*	*	1	1
97	3		P	O		4930-851-3474 IN	NOZZLE, FUEL AND OIL SERVICING: PISTOL GRIP, SELF-CLOSING BRONZE/AL BODY, BRASS TUBE 2-1/2 - FEMALE NPT, W/CABLE, GROUND, DUST CAP STRAINER (10913214) (SEE FIG 107 FOR EXPLODED VIEW)	EA	1	*	*	*	
97	4		P	O		2590-854-4453	VALVE ASSY: FLOW CONTROL, 3-INCH (10913213) (SEE FIG 109 FOR EXPLODED VIEW)	EA	1	*	*	*	*
97	5		P	O		2590-854-4452	VALVE ASSY: FOUR-WAY, 3-INCH (10913211) -----	EA	1	*	*	*	*
97	6		P	O		6680-854-3745	METER ASSY: FUEL (10913215) ----- - - NON-ILLUSTRATED ITEMS	EA	1	*	*	*	*
			P	O		4730-036-4490	ADAPTER: QUICK HOSE COUPLING, W/3 IN (8330290)	NPT (FEMALE) EA			1	*	**
			P	O		4730-216-6053	COUPLING: 3 IN NPT, QUICK HOSE, ASSY (MALE) (8330293)	EA	1	*	*	*	
			P	O		2590-627-8314	HOSE, ASSEMBLY, FUEL DISPENSING: (7036890)	EA	3	*	*	*	*

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>GASOLINE TANK - CONTINUED</u> <u>CENTRIFUGAL DISPENSING PUMP</u> (M131A3C) (FIG 98)						
98	1		P	F	R	2590-612-1249	PUMP, CENTRIFUGAL: FUEL DISPENSING, ASSY (7739779)	EA	1		*	*	
98	2		P	F		2590-612-1251	IMPELLER: CENTRIFUGAL PUMP, FUEL DISPENSING, ASSY (7739781)	EA	1	*	*		
98	3		P	F		2520-627-8313	PARTS KIT, GASOLINE DISPENSING PUMP: (5702180)	EA			4	4	
	3.1						COMPOSED OF: 1 BELLOWS: (7739747)						
	3.2						1 BAND: (7739697)						
	3.3						1 SEAL: (7739698)						
	3.4						1 SEAT: (7739746)						
	3.5						1 "O" RING: (76325-9021-223)						

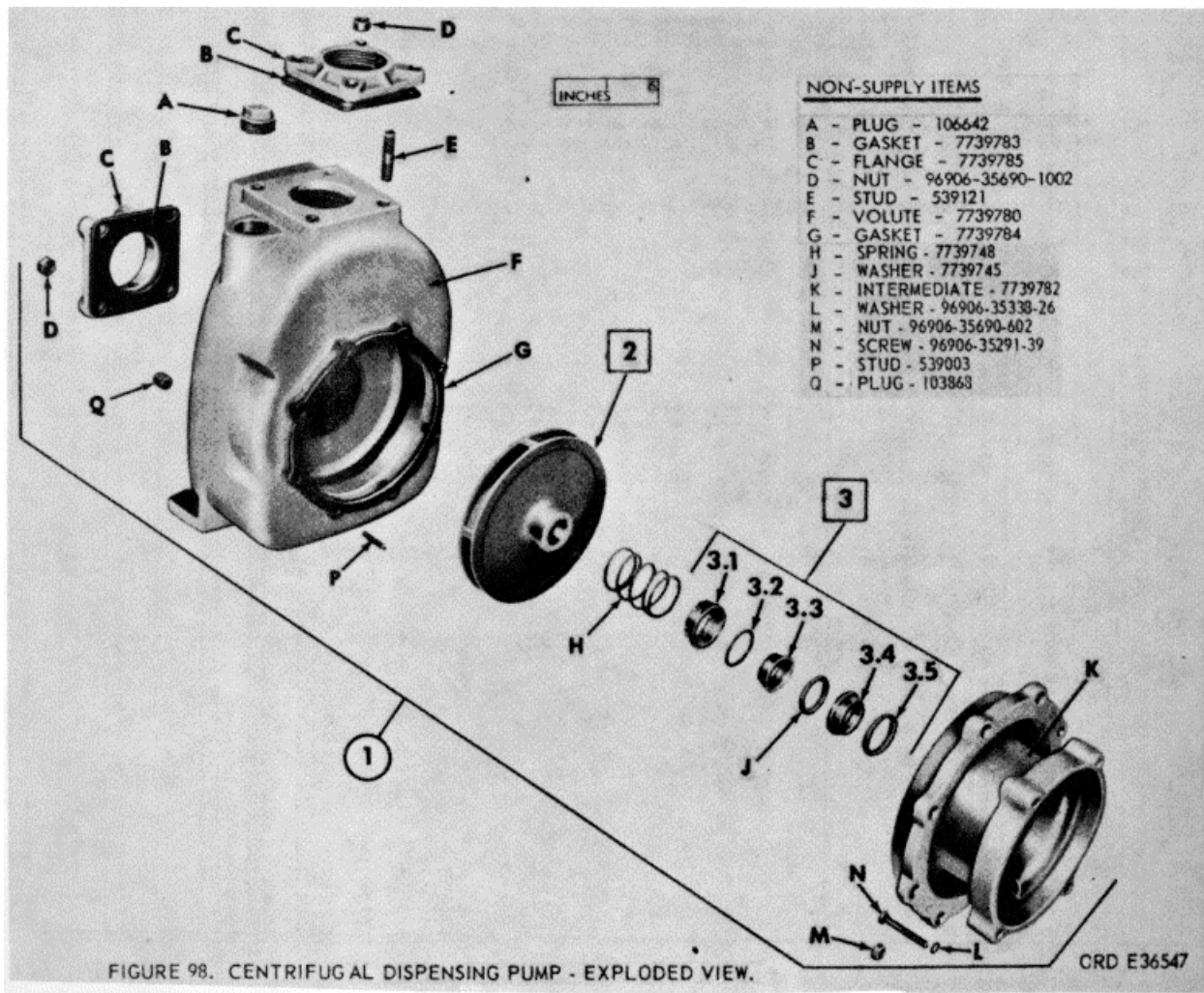


FIGURE 98. CENTRIFUGAL DISPENSING PUMP - EXPLODED- VIEW

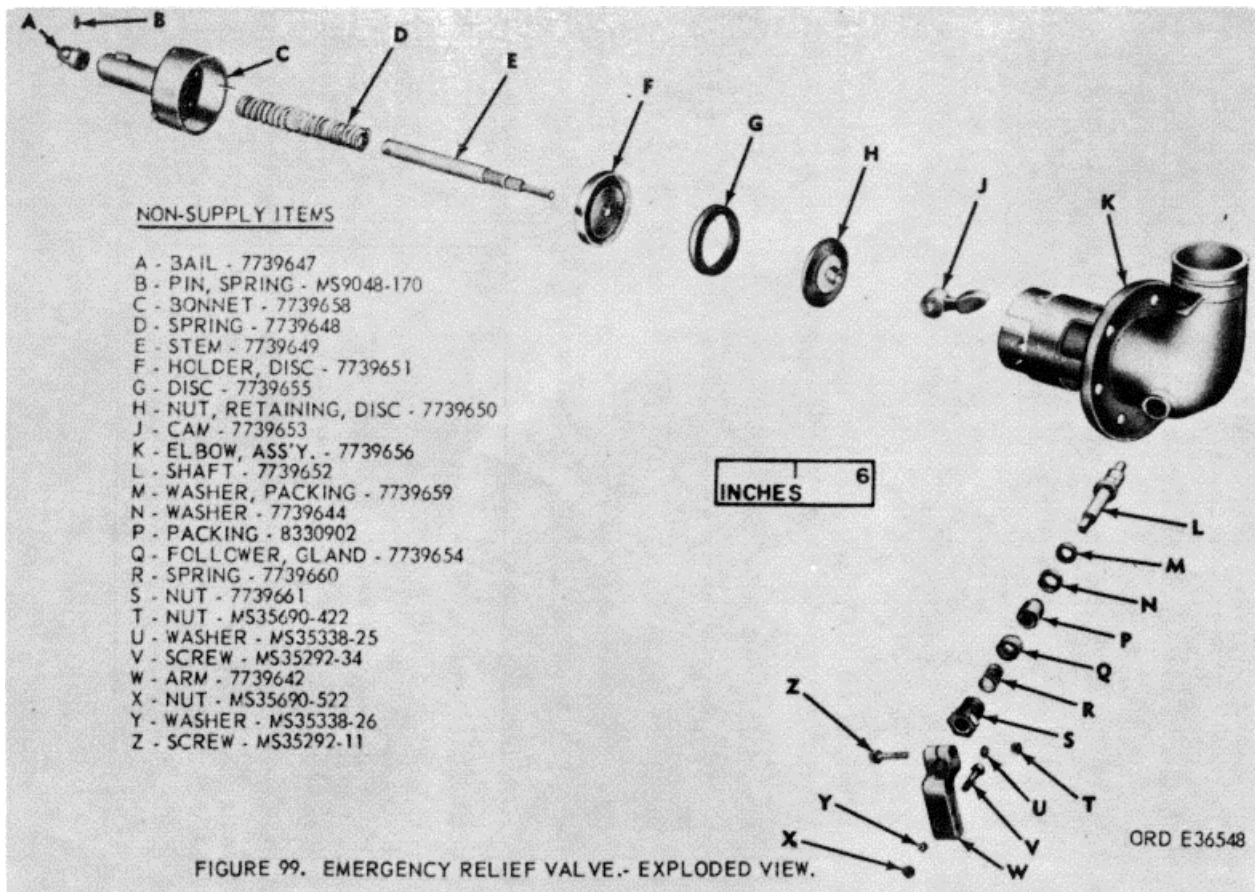


FIGURE 99. EMERGENCY RELIEF VALVE.- EXPLODED VIEW.

FIGURE 99. EMERGENCY RELIEF VALVE - EXPLODED VIEW.

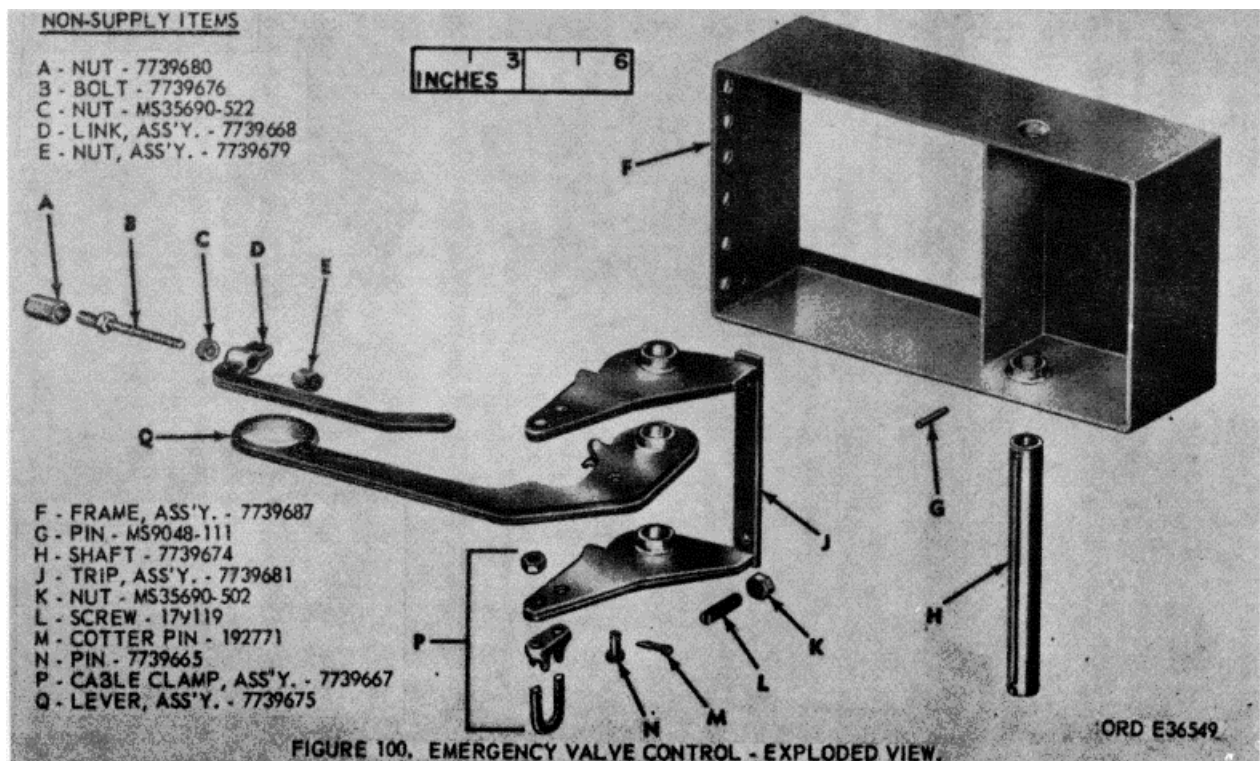


FIGURE 100. EMERGENCY VALVE CONTROL - EXPLODED VIEW.

FIGURE 100. EMERGENCY VALVE CONTROL - EXPLODED VIEW.

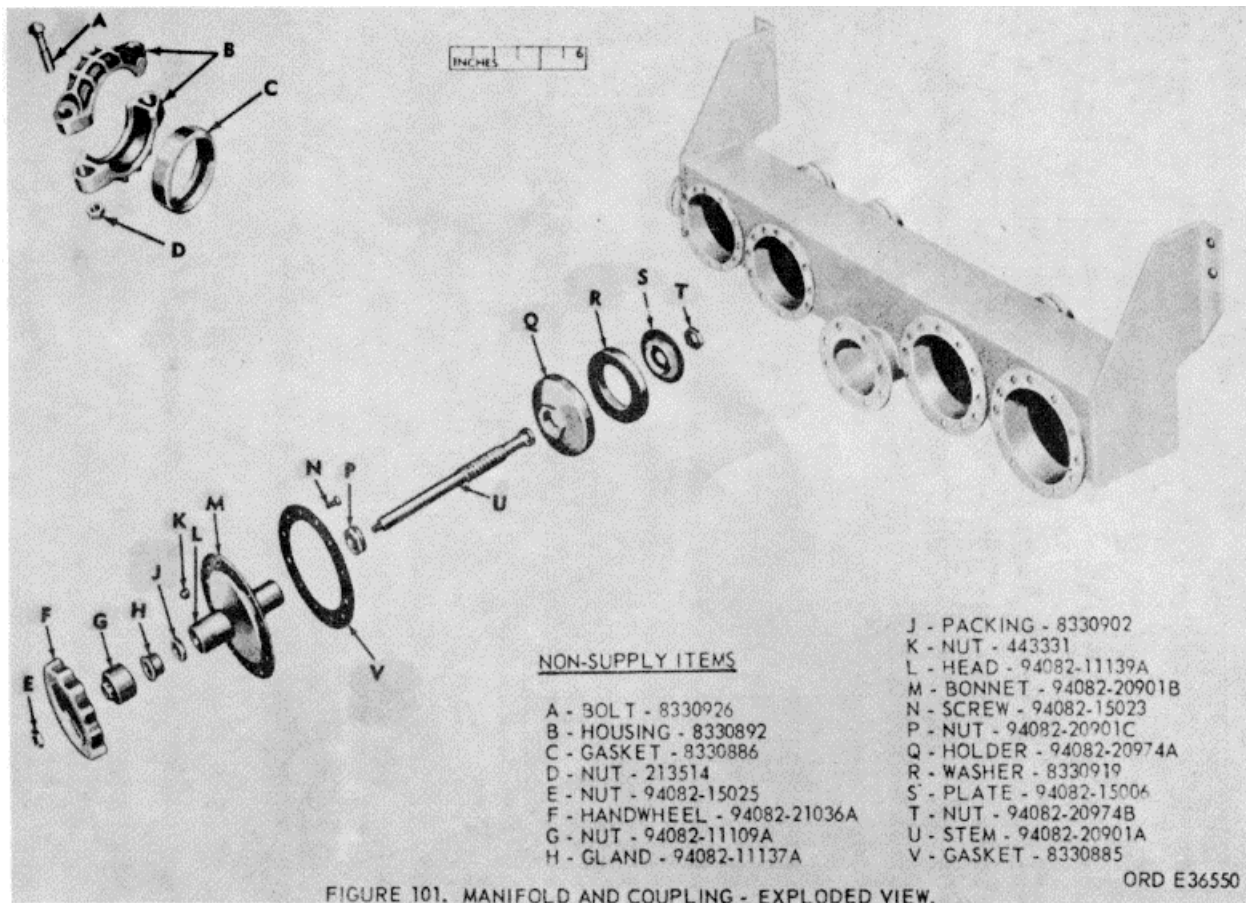


FIGURE 101. MANIFOLD AND COUPLING - EXPLODED VIEW.

FIGURE 101. MANIFOLD AND COUPLING - EXPLODED VIEW.

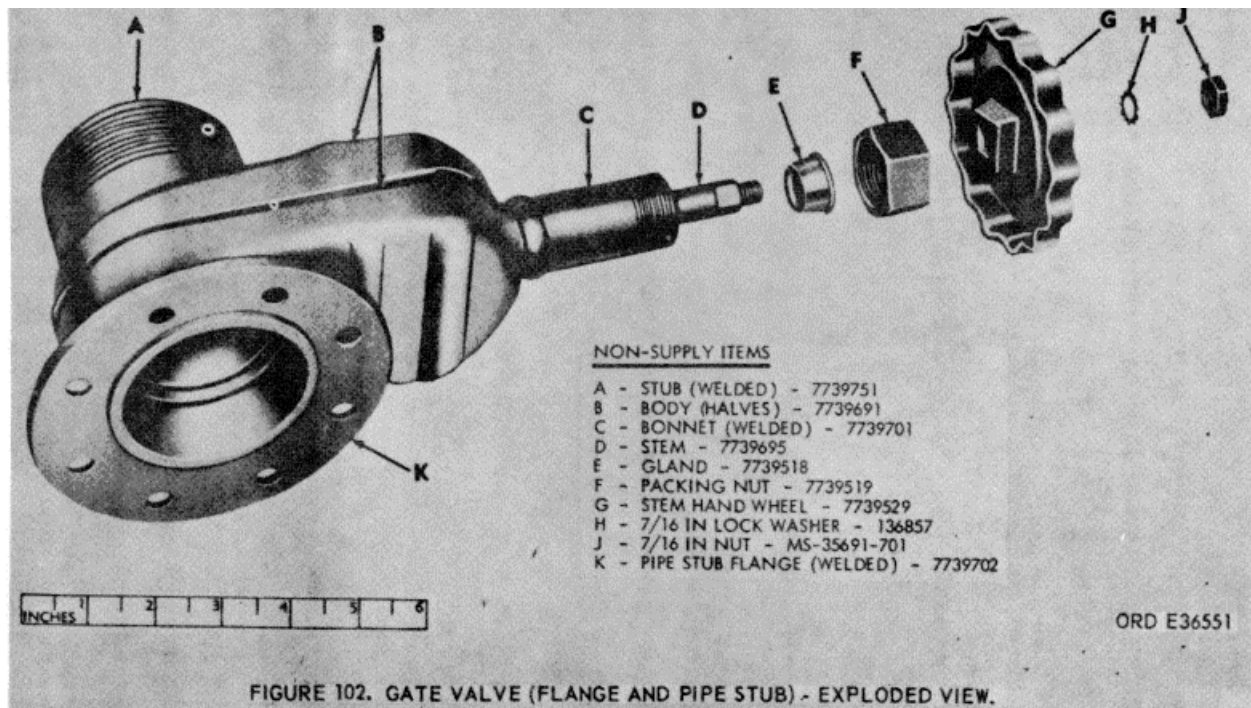


FIGURE 102. GATE VALVE (FLANGE AND PIPE STUB) - EXPLODED VIEW.

FIGURE 102. GATE VALVE (FLANGE AND PIPE STUB) - EXPLODED VIEW.

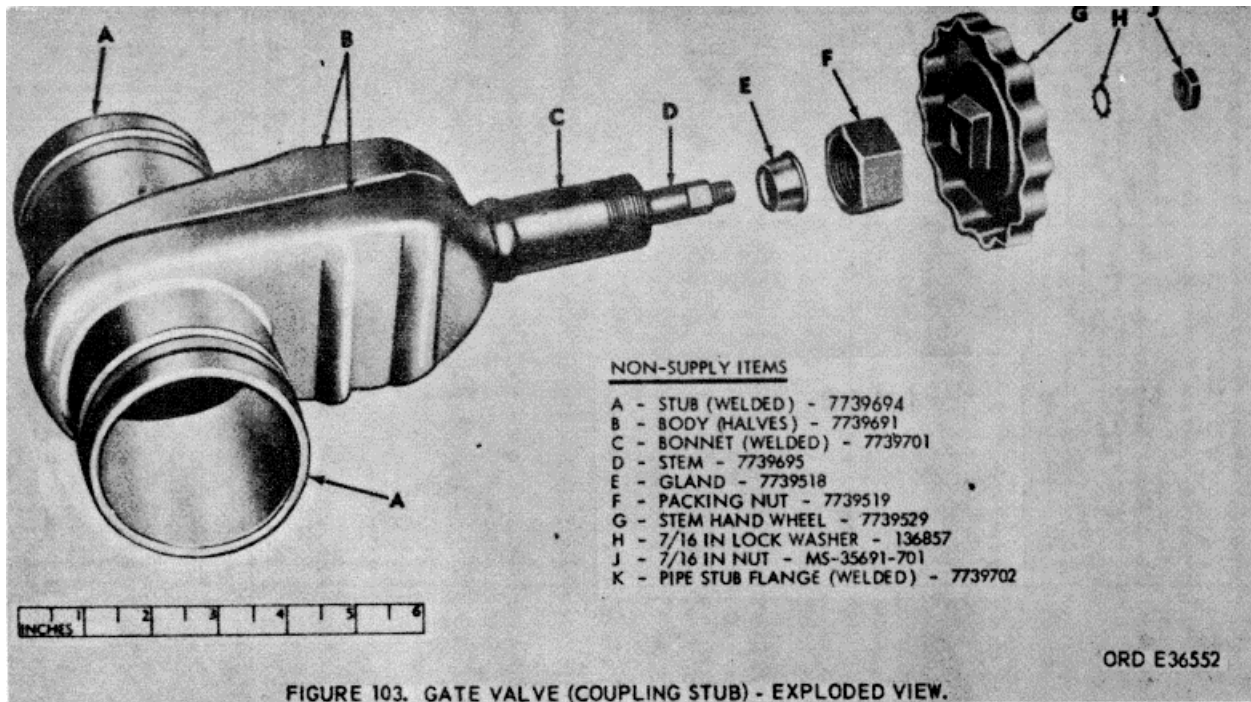


FIGURE 103. GATE VALVE (COUPLING STUB) - EXPLODED VIEW.

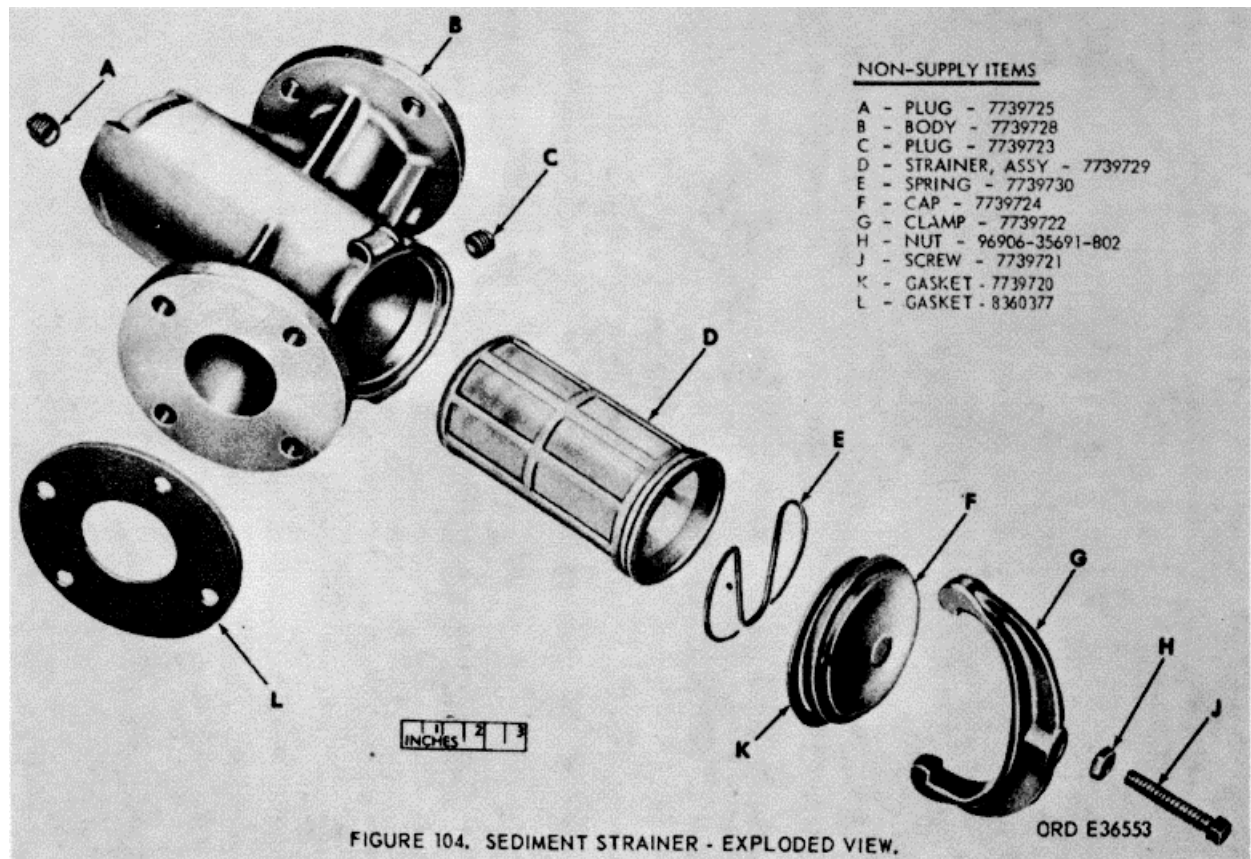


FIGURE 104. SEDIMENT STRAINER - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							GASOLINE TANK - Continued MANHOLE COVER, FILLER COVER, AND VAPOR RELIEF VALVE (M131A3C) (FIG. 105)						
105	1		P	O		2510-627-8312	GASKET: inner manhole cover (7739793)	ea	4	*	*	*	*
105	2		P	O		2510-610-2329	GASKET: outer manhole cover (7739801)	ea	4	*	*	*	*
105	3		C	O		2590-630-9929 (7739803)	VALVE, VENT: Tank Body Manhole Cover, Assy	ea	4	*	*	*	*

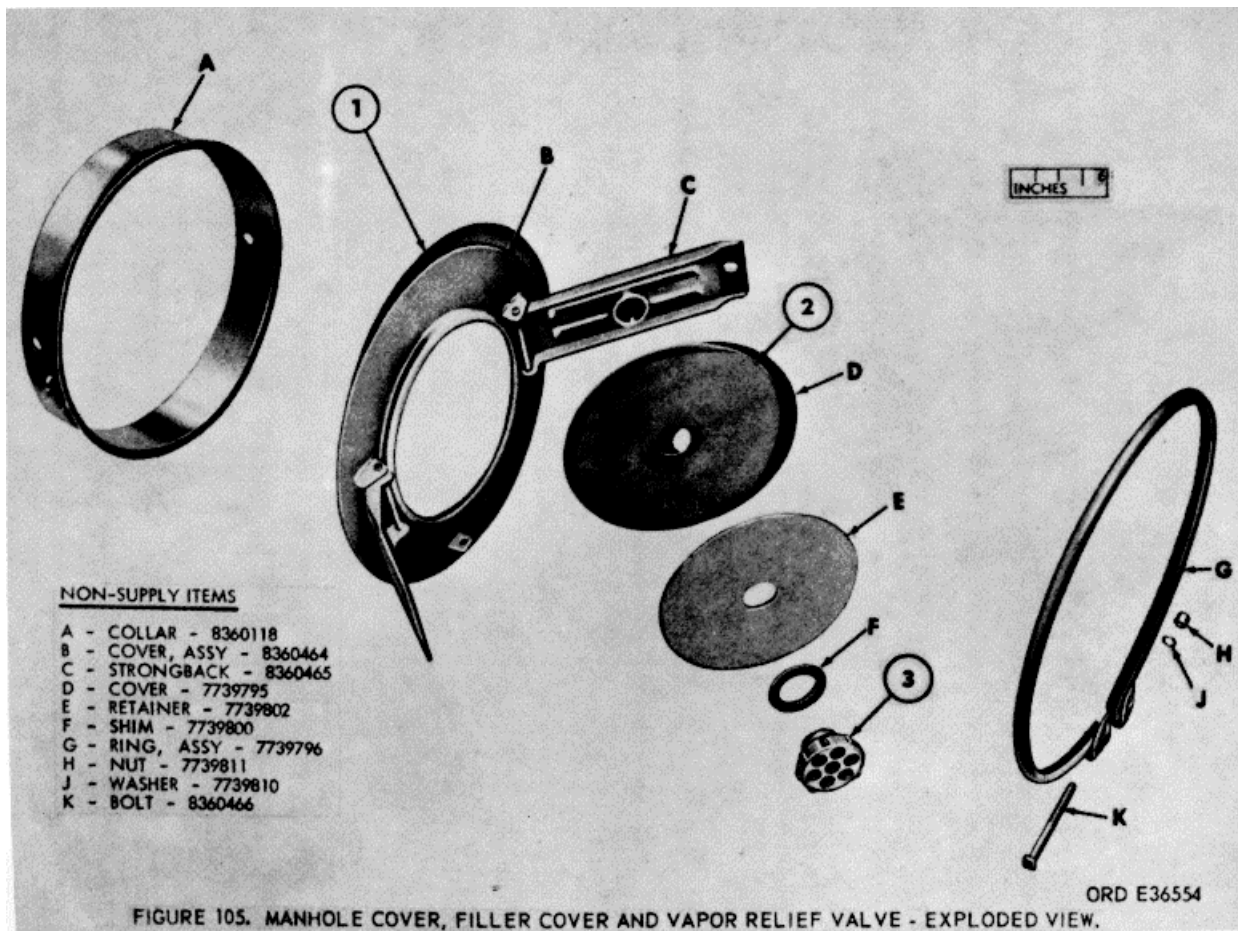


FIGURE 105. MANHOLE COVER, FILLER COVER AND VAPOR RELIEF VALVE - EXPLODED VIEW.

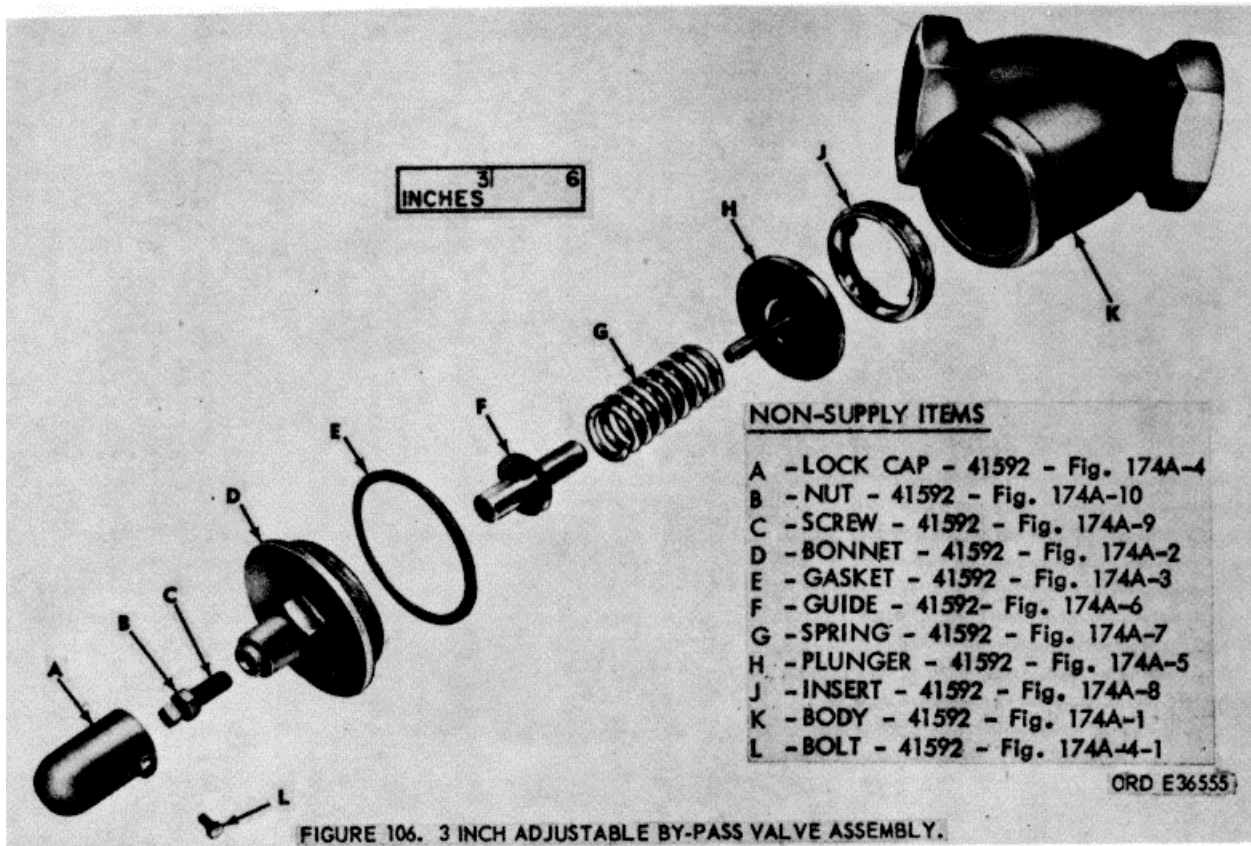


FIGURE 106. 3 INCH ADJUSTABLE BY-PASS VALVE ASSEMBLY.

FIGURE 106. 3 INCH ADJUSTABLE BY-PASS VALVE ASSEMBLY.

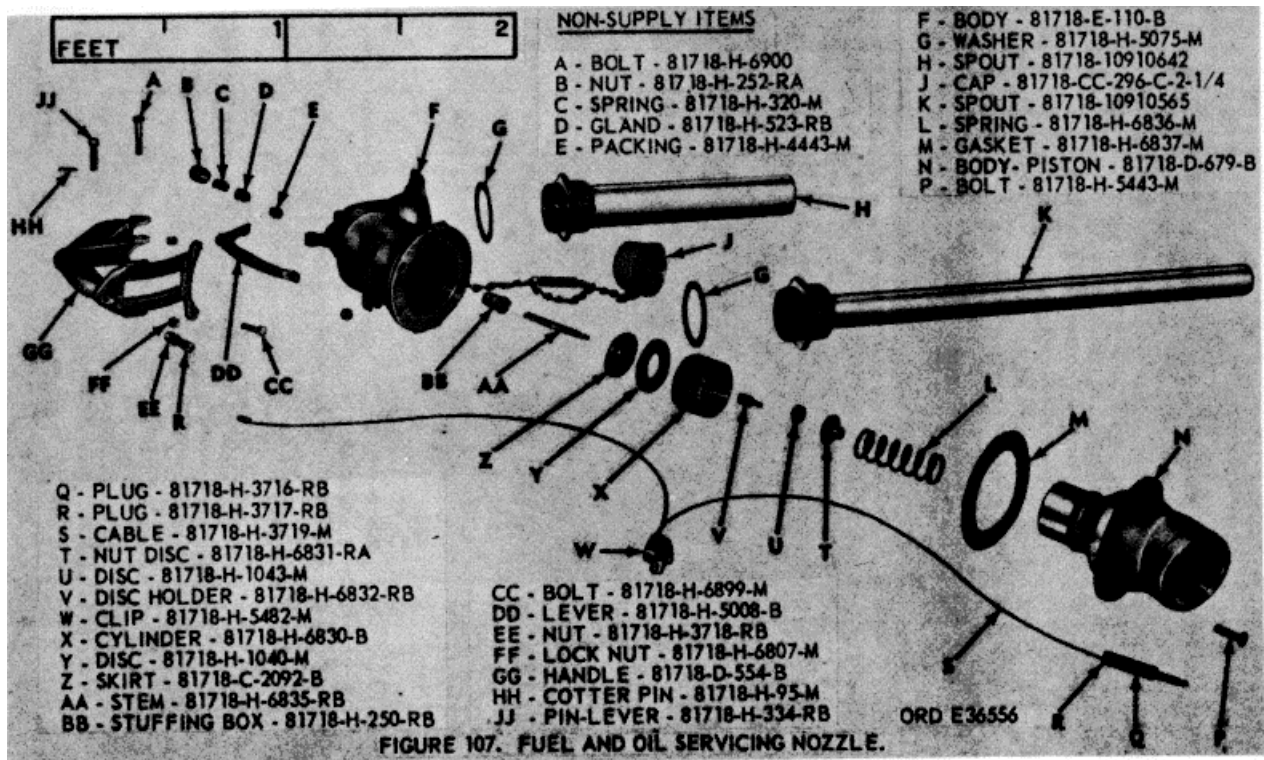


FIGURE 107. FUEL AND OIL SERVICING NOZZLE.

FIGURE 107. FUEL AND OIL SERVICING NOZZLE.

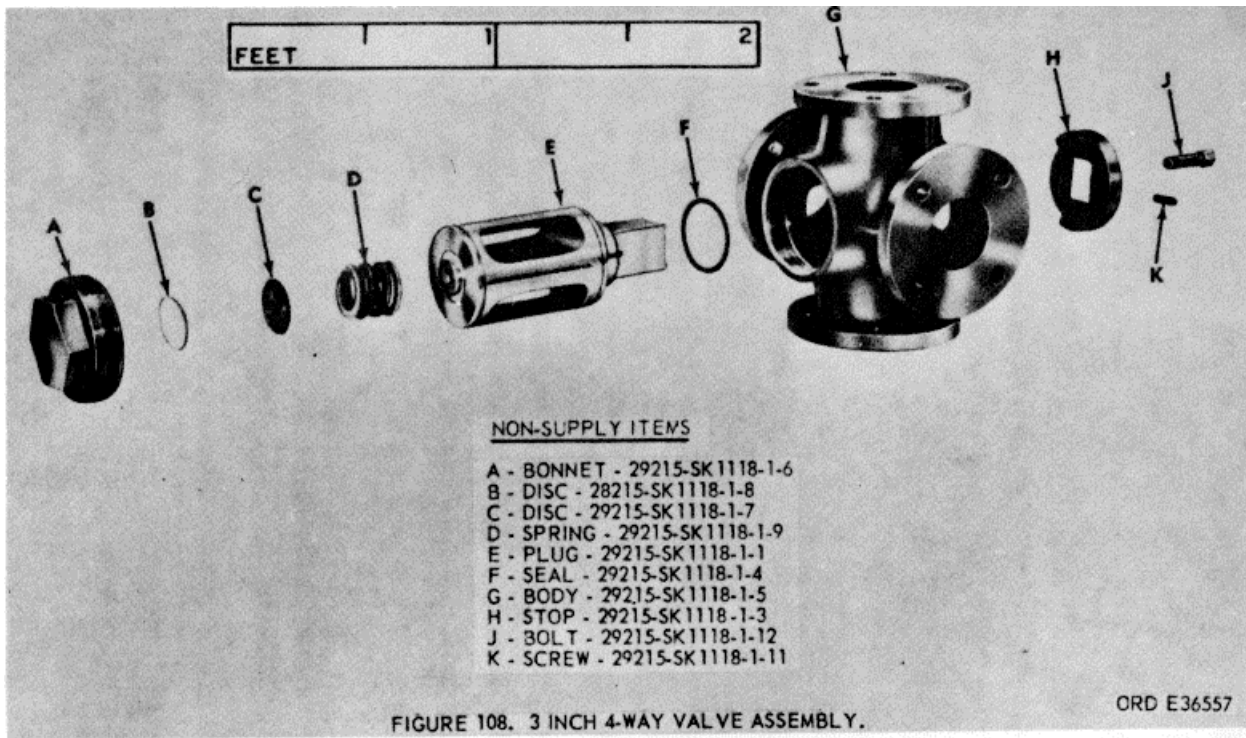


FIGURE 108. 3 INCH 4-WAY VALVE ASSEMBLY.
 FIGURE 108. 3-INCH 4-WAY VALVE ASSEMBLY.

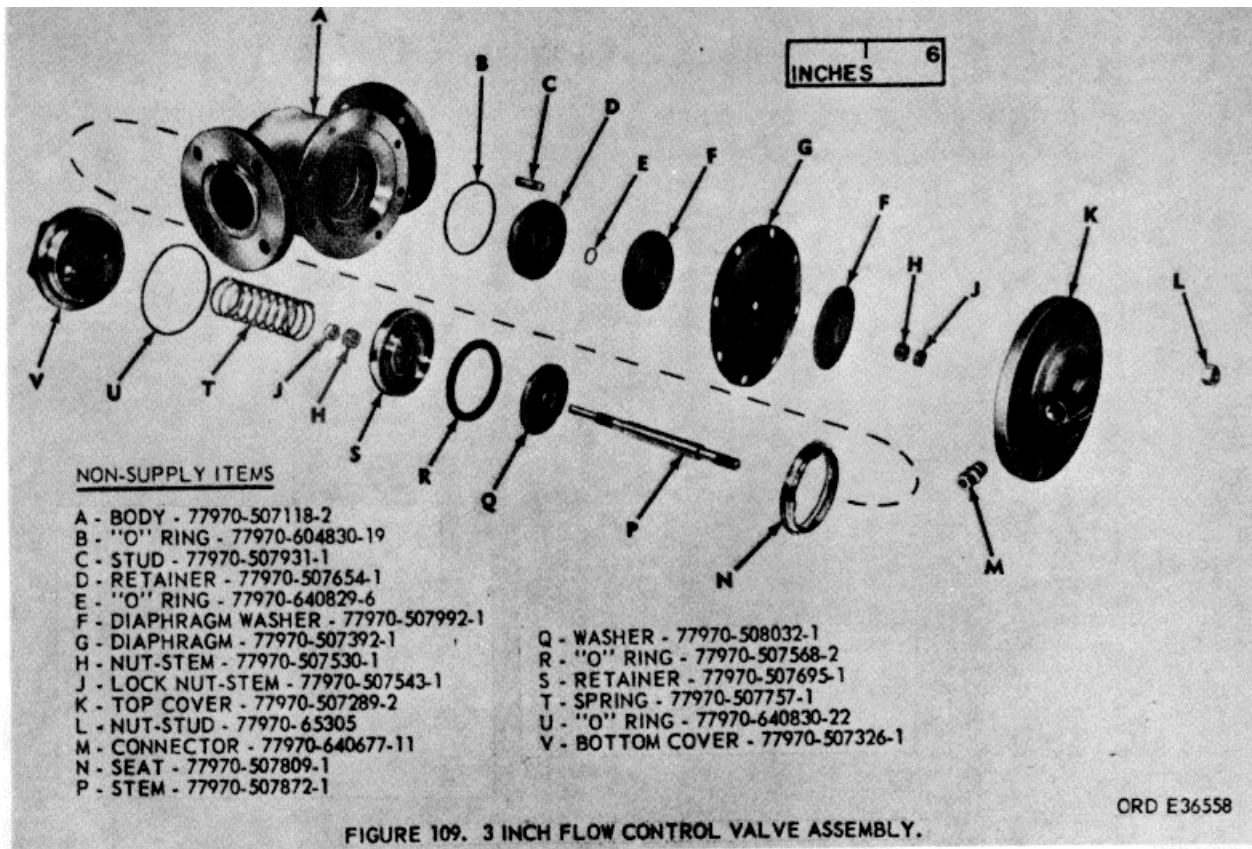


FIGURE 109. 3 INCH FLOW CONTROL VALVE ASSEMBLY.
 FIGURE 109. 3-INCH FLOW CONTROL VALVE ASSEMBLY.

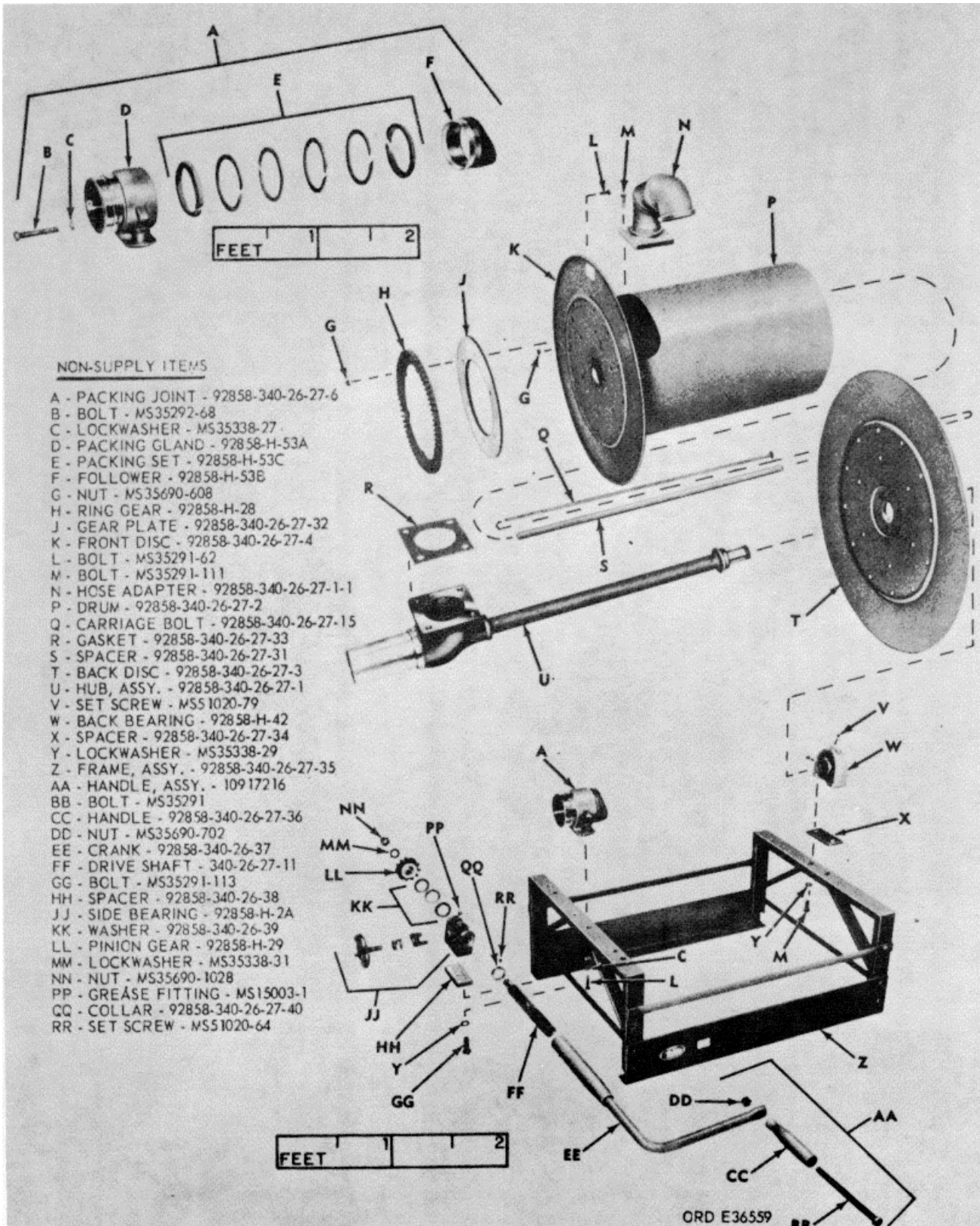


FIGURE 110. HOSE REEL ASSEMBLY.

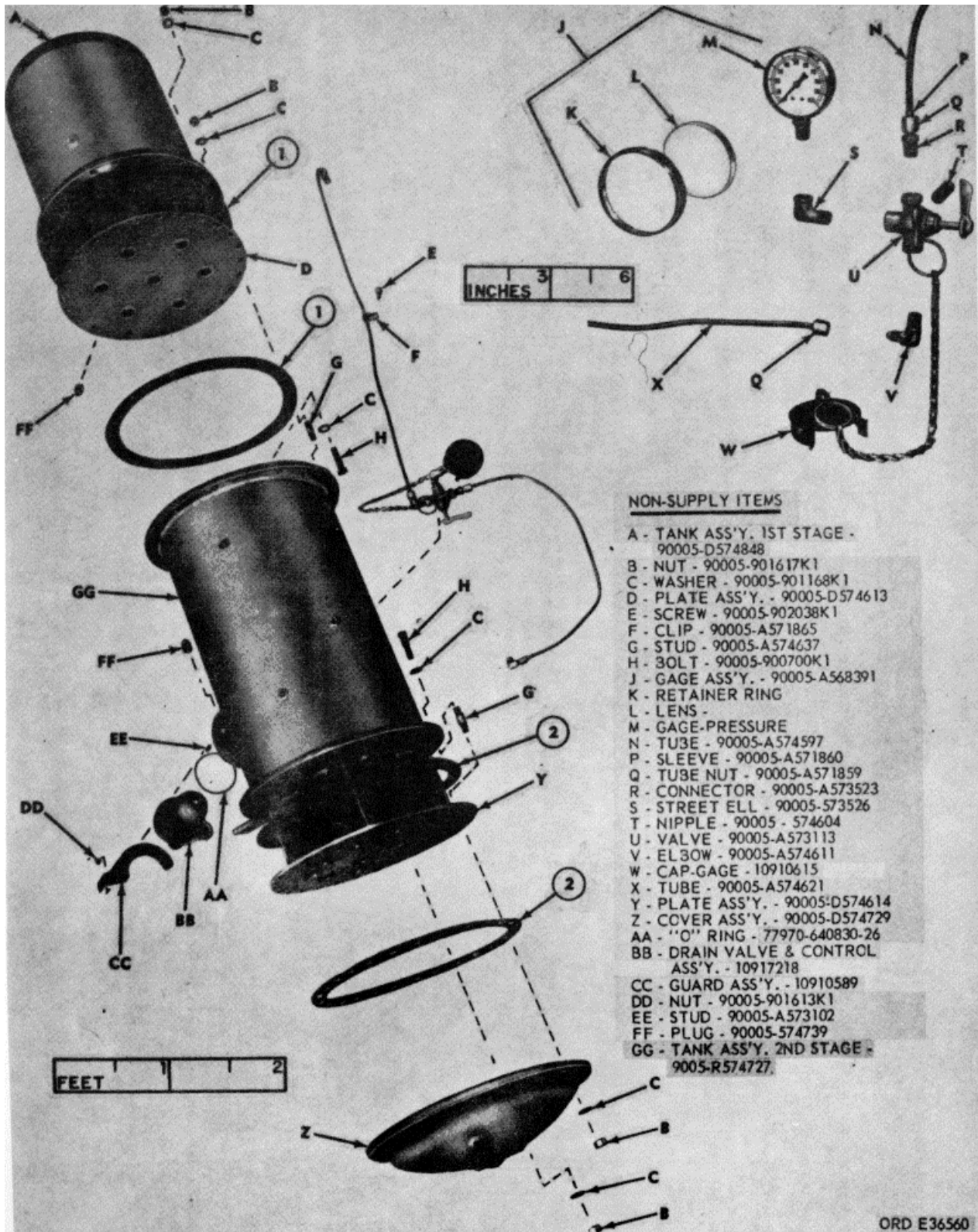


FIGURE 111. SEGREGATOR INSTALLATION - PARTIALLY EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
111	1		P	0		2590-854-4456	PARTS KIT: REPAIR FUEL SEPARATOR (5703040) (See Figs. 111 AND 112) COMPOSED OF: 2 GASKET: First stage plate (90005-572683) 2 GASKET: Second stage plate (90005-572682) 13 GASKET: Second stage element (90005-572696) 13 ELEMENT: Second stage (90005-572678) 7 ELEMENT: First stage (90005-571663) 7 GASKET: First stage element (90005-572699)	ea	≠		*	.3	.3

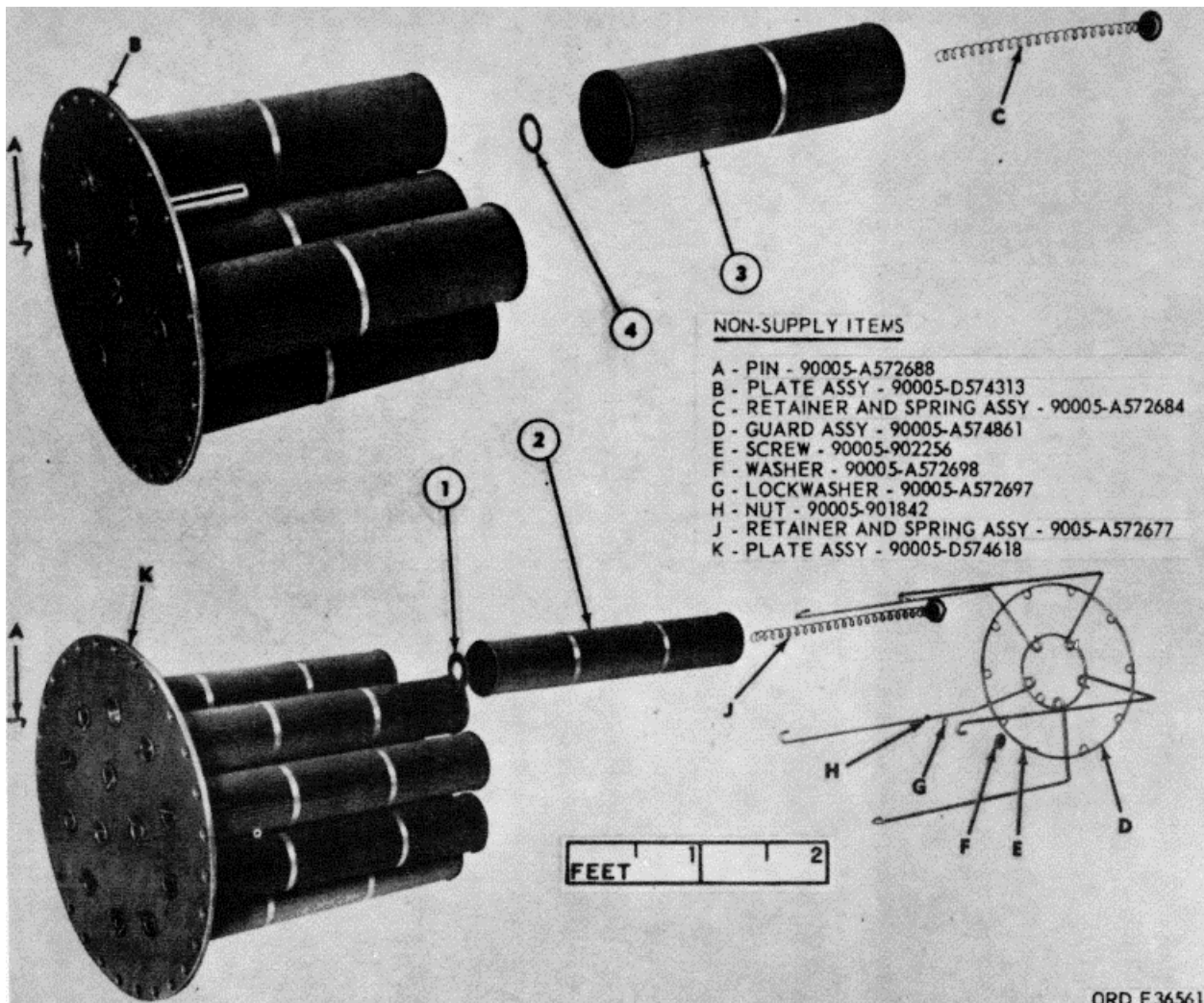


FIGURE 112. SEGREGATOR FIRST AND SECOND STAGE ELEMENT AND PLATE ASSEMBLIES

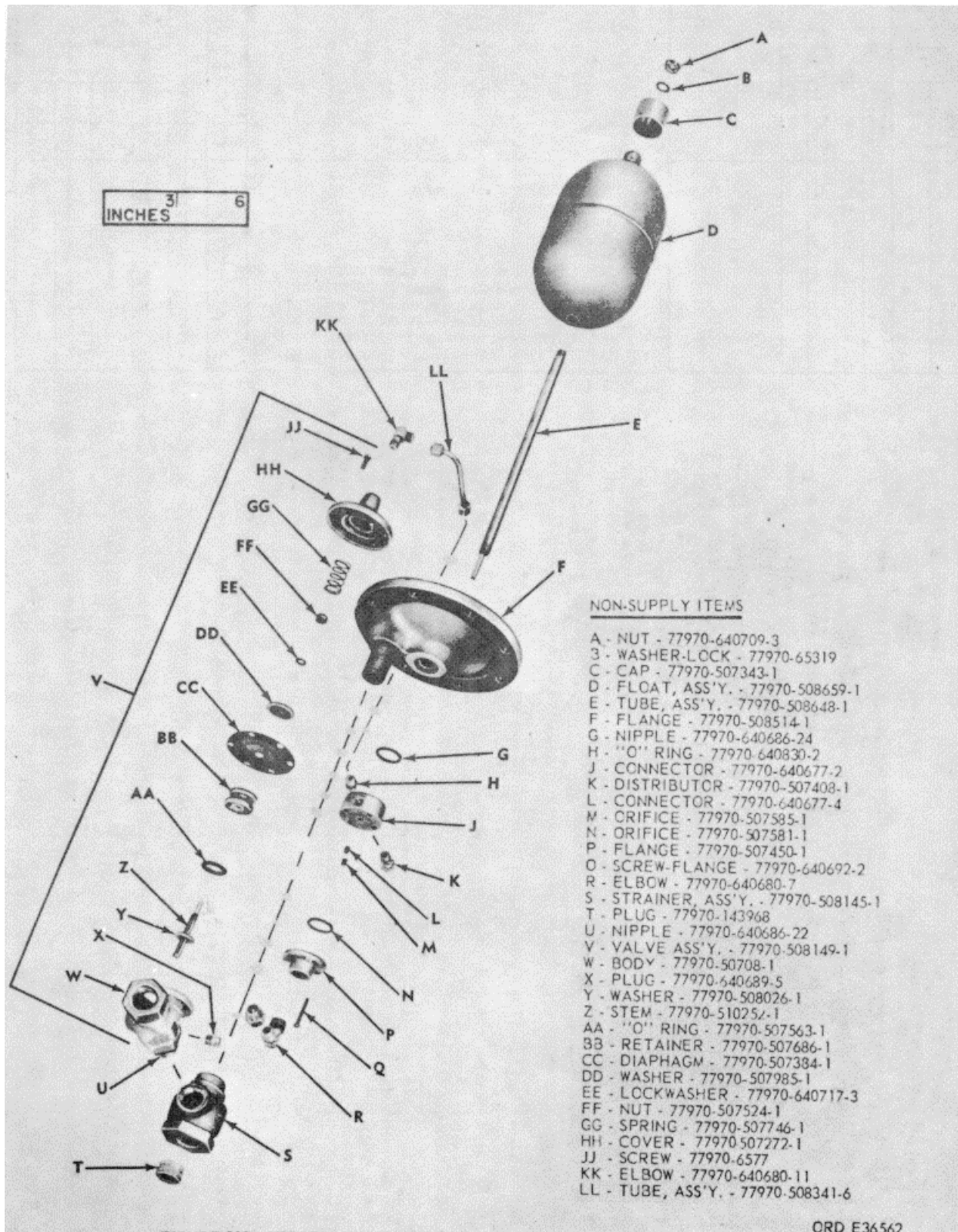


FIGURE 113. SEGREGATOR CONTROL AND DRAIN VALVE ASSEMBLY.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
		10	P	0		9905-205-2795	MISCELLANEOUS ACCESSORIES REFLECTOR (NON-ILLUSTRATED) REFLECTOR, INDICATING, CLEARANCE: red, 4-1/2 in lg, 3-5/8 in w, (red oval frame assy) (MS-35387-1)	ea	4	*	*	*	*
		10	P	0		9905-202-3639	REFLECTOR, INDICATING, CLEARANCE: amber, 4-1/2 in lg, 3-5/8 in w, (amber oval frame assy)	ea	4	*	*	*	*

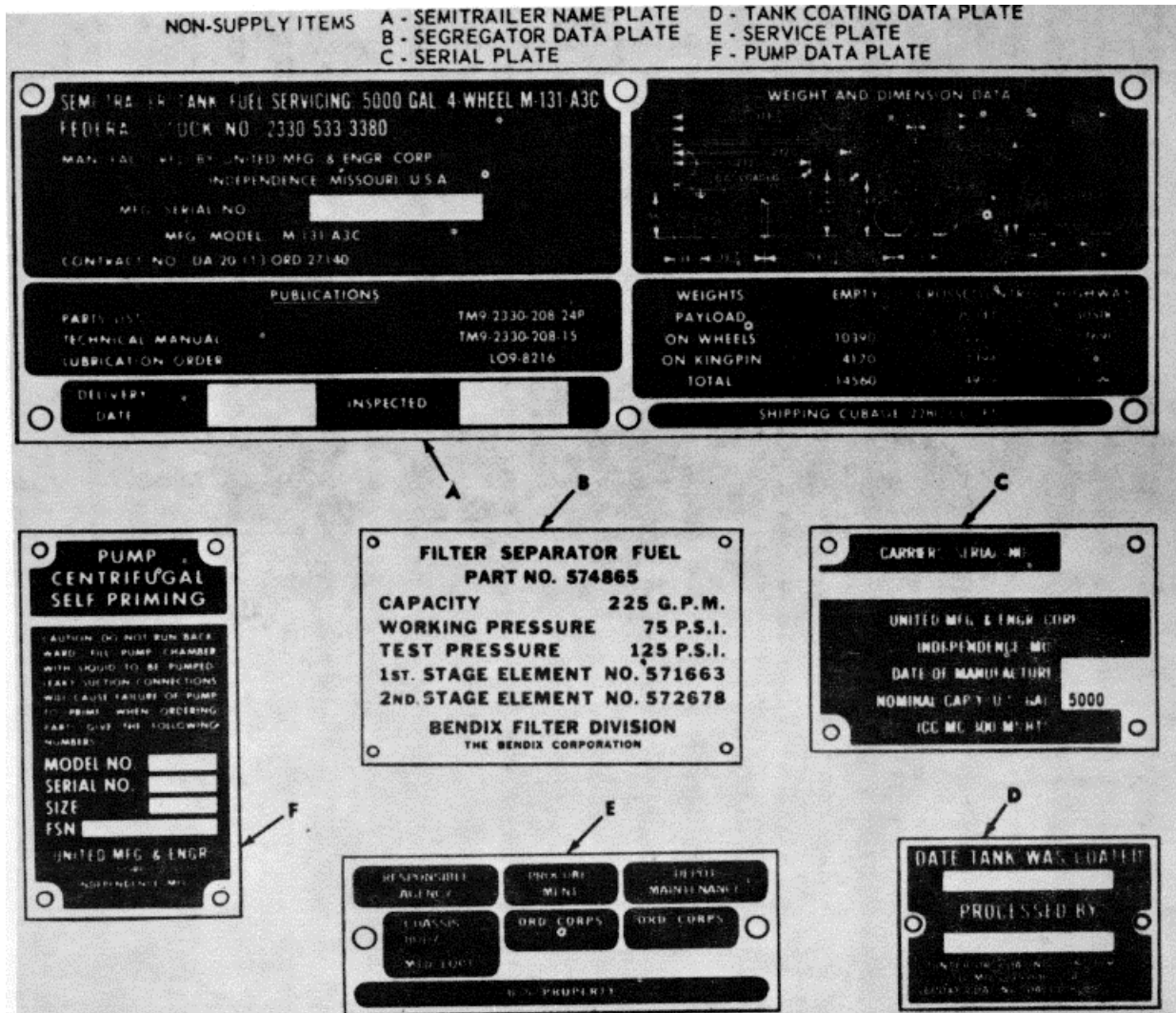


FIGURE 114. DATA PLATES

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
115	1		P	O	R		<u>AUXILIARY ENGINE (M131A3C)</u>						
115	2		P	O		2590-659-7745	<u>AUXILIARY ENGINE (FIG. 115)</u> ENGINE, GASOLINE: w/accessories (10910600)----- CONTROL ASSY, PUSH-PULL: carburetor (7739504)	ea	1	*	*	*	
115	3		P	O		2590-659-7747	CONTROL ASSY, PUSH-PULL: throttle (7739488)	ea	1	*	*	*	
							<u>AUXILIARY ENGINE ACCESSORIES</u>						
							<u>(M131A3C) (FIG. 116)</u>						
116	1		C	O	R	2910-580-0087	CARBURETOR, FLOAT: (7535650)-----	ea	1	*	1	.5	
116	2		C	O	S	2920-359-4858	SPARK PLUG: (7003497) -----	ea	2	1.0	1.0	2.4	
116	3		C	O		2920-358-6773	CABLE: spark plug (short) (7003401) -----	ea	1	*	*	*	
116	4		C	O		2920-358 6772	CABLE: spark plug (long) (7003402) -----	ea	1	*	*	*	
116	5		P	O		2590-459-7746	CONTROL ASSY, PUSH-PULL: fuel pump (7023548)	ea	1	*	*	*	
116	6		C	O	R	2910-379-2806	PUMP, ASSEMBLY: fuel, engine (7739480) -----	ea	1	*	1	.5	

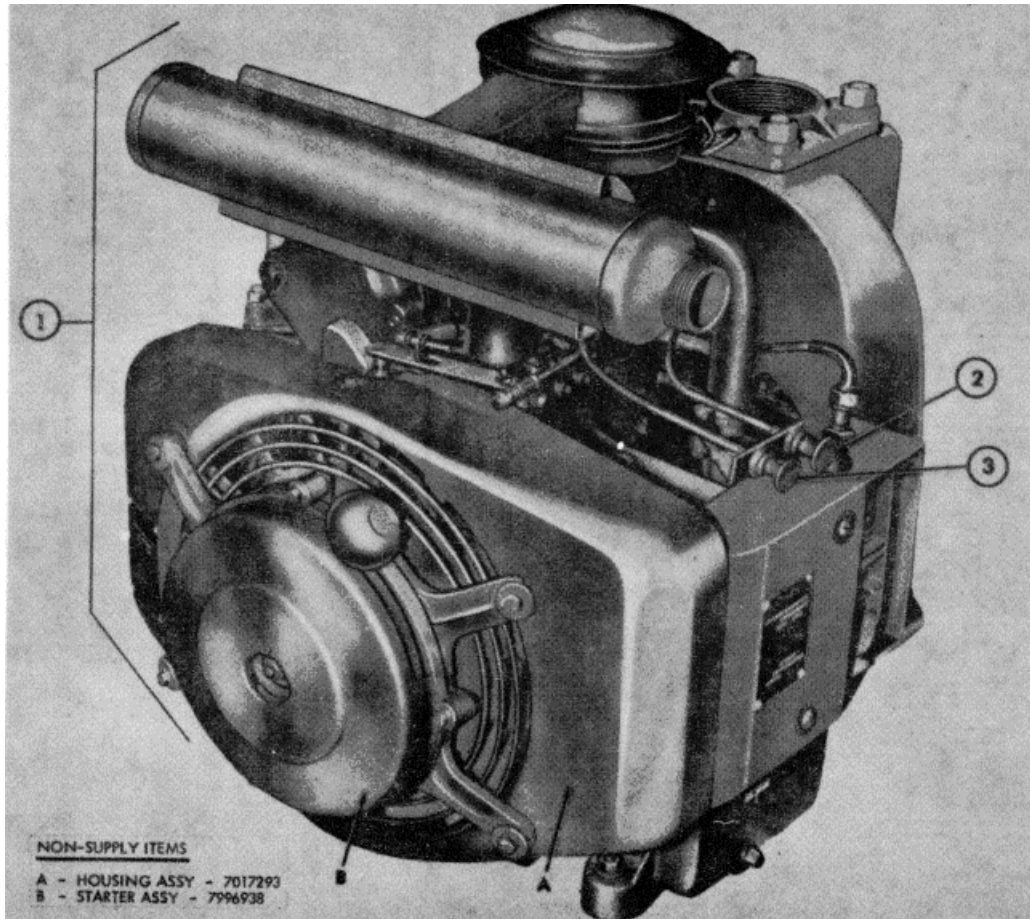


FIGURE 115. AUXILLARY ENGINE - M131A3C

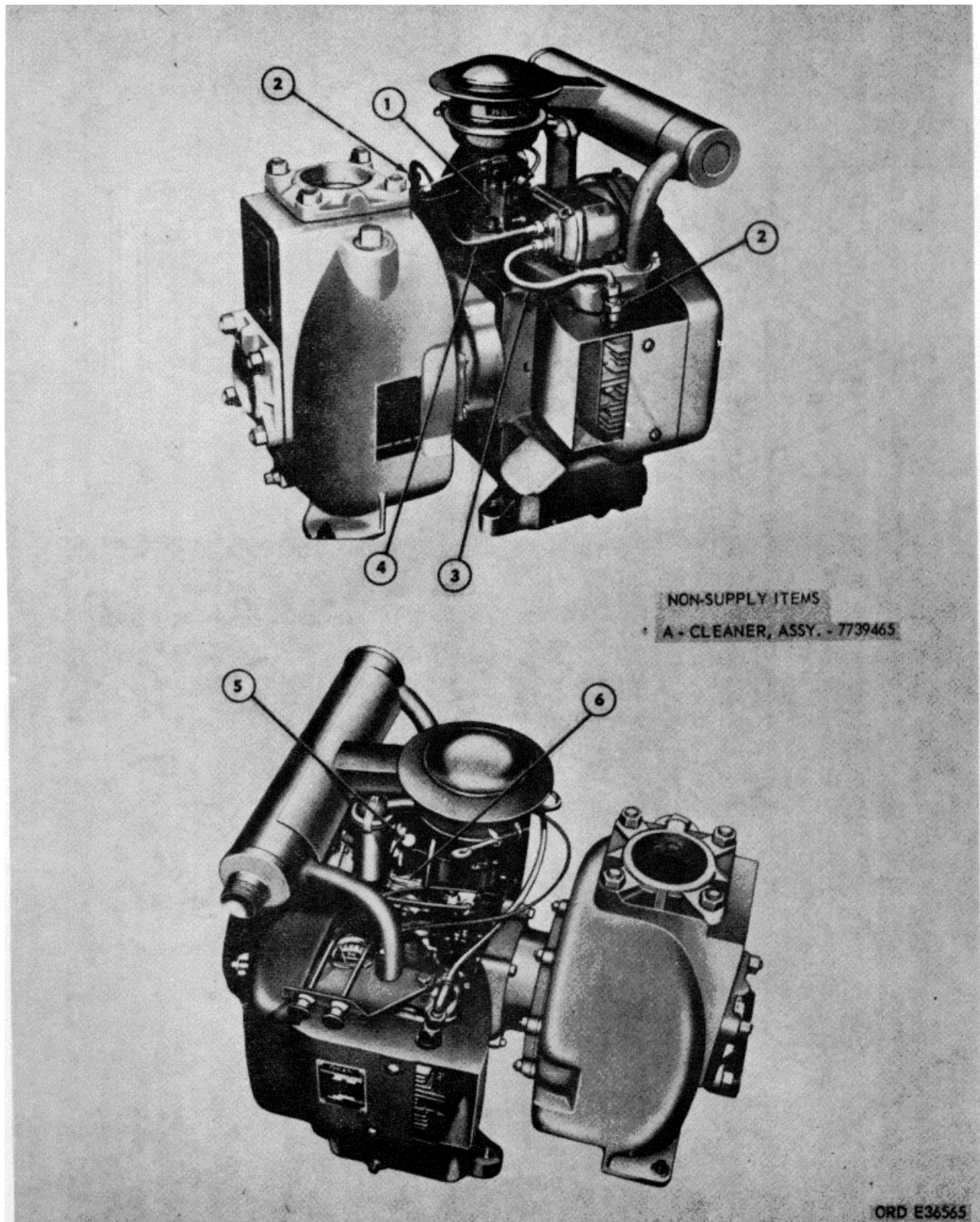
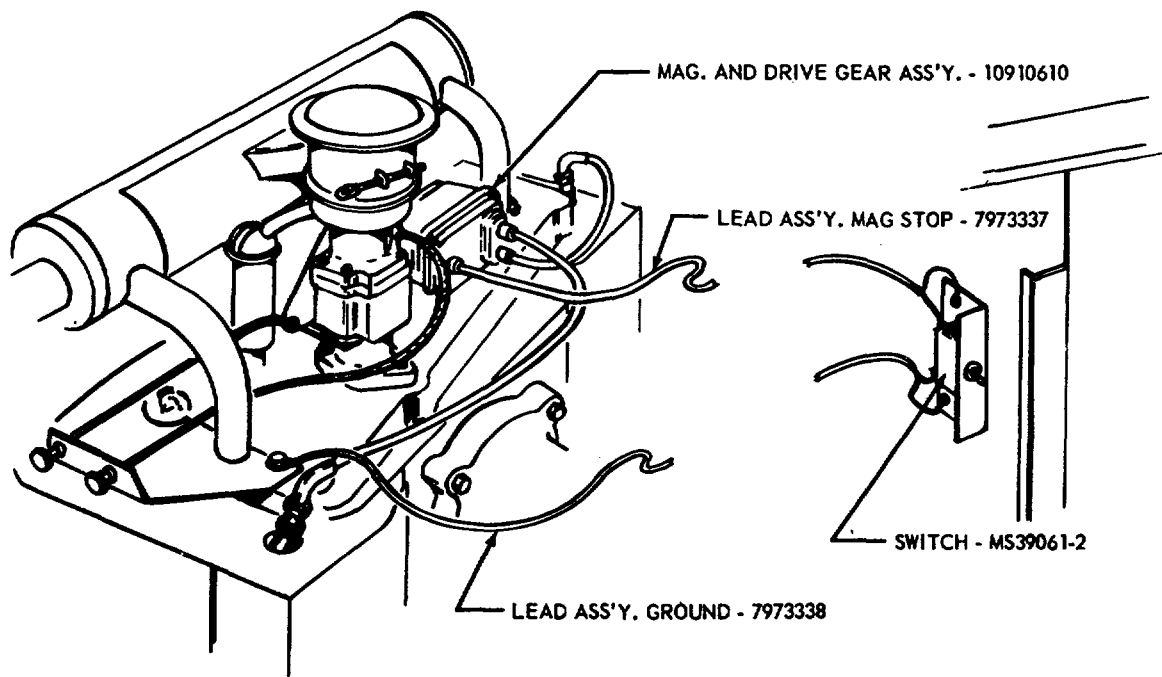
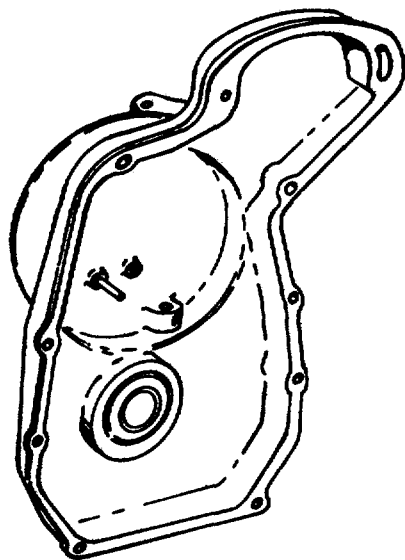


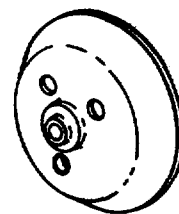
FIGURE 116. AUXILLARY ENGINE ACCESSORIES.



NOTE: THIS ILLUSTRATION SHOWS PARTS VARIATION BETWEEN THE M131A2 AUXILIARY ENGINE AND M131A3C.



GEAR CASE ASS'Y. - 10910611



CUP-GOVERNOR - 10910606

ORD E36566

FIGURE 117. AUXILIARY ENGINE MODEL ACK-S/381D (M131A3C)

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A3C) - CONTINUED</u>						
							<u>EXHAUST, AIR CLEANER AND BREATHER GROUP (NON-ILLUSTRATED)</u>						
			C	0		2990-358-5774	MUFFLER: (7739478) -----	ea	1	*	*	*	
			P	0		5306-514-7303	BOLT, MACHINE: muffler to manifold (MS35302-36)	ea	2	*	*	*	
			P	0		2805-358-3007	MANIFOLD, INTAKE: (7739471)-----	ea	1	*	*	*	
			P	F		2805-699-6885	GASKET: INTAKE MANIFOLD (8331443) -----	ea	2	1	1	*	
			P	0		5306-514-7303	BOLT, MACHINE, HEXAGON HEAD: intake manifold (MS35302-26)	ea	2	*	*	*	
			C	0		2805-423-0363	GASKET: exhaust manifold (8331442) -----	ea	2	*	1	1	
			P	0		2990-699-8508	ROPE-PULL STARTER (NON-ILLUSTRATED)						
			P	0		3120-659-7767	SPRING: recoil (8331440) -----	ea	1	*	.2	.2	
							BEARING SLEEVE: SHEAVE starter (inner plate) (7023561)	ea	1	*	.3	.3	
			C	0		2805-382-8133	SPRING: starter pawl (7739615) ----- -	ea		*	.3	.3	
			P	0		2990-338-1916	STARTER ROPE, ENGINE: w/grip, assy (8331437)	ea	1	*	.3	.3	
							FUEL PUMP AND ATTACHING PARTS (NON-ILLUSTRATED)						
			P	0		2910-423-4340	GASKET: FLANGE, fuel pump (8331759) -----	ea	2	*	*	.5	.5
			P	0		2910-358-5357	SPACER: fuel pump (8331584) -----	ea	1	*	*	*	*
			P	F		5340-097-2738	SPRING, HELICAL, COMPRESSION: by pass relief valve (7739572)	ea	1	*	*	*	*
			P	0		5310-659-7772	WASHER, FLAT: fuel pump mounting (7346103)	ea	2	*	*	*	*
			P	0		5305-655-9287	SCREW, MACHINE: fuel pump mounting (MS35251-84)	ea	2	*	*	*	*
							CARBURETOR ASSEMBLY (NON-ILLUSTRATED)						
			P	0		5306-543-2506	BOLT, MACHINE: carburetor (MS35291-33) -----	ea	2	*	*	*	*
			P	0		2910-659-7766	SPRING HELICAL, TORSION: throttle (7535691)	ea	1	*	*	*	*
			P	F		2910-358-4478	GASKET AND PREFORMED PACKING KIT:				*	*	
							COMPOSED OF: 1 GASKET: adj. screw (44940-146K2) 1 GASKET: air horn (44940-146-39) 1 GASKET: inlet seat (44940-146-7) 1 GASKET: nozzle outlet (44940-146-38)						

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A3C) - CONTINUED</u>						
			P	F		2910-358-4508	<u>CARBURETOR ASSEMBLY (NON-ILLUSTRATED)</u> CONTINUED KIT, REPAIR: CARBURETOR (8409938) COMPOSED OF: 1 GASKET SET: carburetor (44940-146K2) 1 NEEDLE AND SEAT: A (44940-146-68) 1 NOZZLE: main (44940-146-51) 1 PIN: float lever (44940-146-31) 2 SCREW: and lock washer throttle shutter (44940-146-153) 1 SCREW: bowl inspection (44940-146-21) 1 SCREW: choke wire retainer (44940-815-121) 1 SCREW: idle adjustment (44940-146-36) 1 SCREW: idle speed (44940-146-24) 1 SCREW: main adjustment (44940-146-65) 1 SCREW: throttle clamp (44940-815-110) 1 SHAFT: throttle (44940-146-63) 1 SPRING: idle adjustment screw (44940-146-10) 1 SPRING: idle speed screw (44940-156-11) 1 SPRING: throttle idler control lever (44940-146-61) 1 TUBE: idle (44940-146-46)	ea	≠				
			P	0		2990-696-0357	<u>GOVERNOR GROUP (NON-ILLUSTRATED)</u> SPRING, HELICAL, EXTENSION: GOVERNOR (8331605)	ea	1	*	*	*	
			P	0		2990-628-0506	BALL JOINT: GOVERNOR LINKAGE (7016837)	ea	1	*	*	*	
			P	F		2805-659-7761	<u>OIL PUMP AND PRESSURE RELIEF GROUP (NON-ILLUSTRATED)</u> PLUNGER, BY-PASS RELIEF, VALVE: (7739574)	ea	1		*	*	
			C	F		2805-620-8019	PUMP, OIL: (10910609)-----	ea	1		*	*	
			P	H		2805-358-2672	GASKET SET: oil pump mounting (5702386) COMPOSED OF: 1 GASKET: (7739571) 1 GASKET: (8331417) 1 GASKET: (7023567) 1 GASKET: (7023568)	ea	≠			.5	
			P	0		2990-696-0373	LINE ASSY, OIL GOVERNOR: flex, oil, pressure gage (7418403)	ea	1	*	.2	.2	
			P	0		4730-277-5552	ELBOW, PIPE: flared tube, inverted (oil pressure gage) (120401)	ea	1	*	*	*	
			P	0		6620-515-3483	GAGE, PRESSURE, DIAL INDICATING: oil pressure (7418471)	ea	1	*	*	*	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) CODE Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A3C) - CONTINUED</u>						
							<u>IGNITION GROUP (NON-ILLUSTRATED)</u>						
			C	F		3120-358-3786	WASHER, THRUST: idler gear (7739603) -----	ea	1		*	*	
			C	F		3120-358-2131	BEARING, SLEEVE: magneto, idler gear bearing (7739602)	ea	1		*	*	
			C	F		3120-358-2132	SLEEVE, BEARING: magneto idler gear (7739604)	ea	1		*	*	
							<u>MAGNETO PARTS GROUP (NON-ILLUSTRATED)</u>						
			P	F		2920-596-9943	COIL: (8409951) -----	ea	1		.3	.3	
			P			5330-737-2635	SEAL, MAGNETO: rotor end (7372635) -----	ea	1		*	*	
			P			2920-358-7127	GEAR, HELICAL: (7739600) -----	ea	1		*	*	
			P	F		2920-358-4775	COUPLING: impulse assy (8409970) -----	ea	1		*	*	
			P			5340-737-2628	RING, RETAINING, STEEL: snap rotor bearing (7372628)	ea	1		*	*	
			P	F		3120-737-2638	BEARING: rotor drive (7372638) -----	ea	1		*	*	
			P	F		2920-699-1259	ROTOR ASSY: (8409942) -----	ea	1		.5	.5	
			F	F		5910-740-2855	CAPACITOR, FIXED, PAPER DIELECTRIC: condenser (7402855)	ea	1		.6	.6	
			P	F		2920-640-7701	CONTACT SET, DISTRIBUTOR: points assy (8409981)	ea	1		1	1	
			P	F		2920-733-8761	GASKET: magneto cap-----	ea	1		.4	.4	
			P	F		1055-358-7791	SCREW ASSY: magneto cup (FMB10510D) -----	ea	4		*	*	
							<u>CRANKSHAFT, FLYWHEEL, PISTON AND RINGS (NON-ILLUSTRATED)</u>						
			P	H		5305-699-6863	BOLT, MACHINE: cap flywheel to crankshaft (8331363)	ea	1			*	
			P	H		5310-194-0743	WASHER, LOCK: flywheel to crankshaft(MS35338-28)	ea	1			*	
			C	H		5310-696-5677	WASHER: flywheel to crankshaft (7739627)-----	ea	1			*	
			P	H		2805-659-7759	FLYWHEEL BLOWER: (7739483) -----	ea	1			*	
			P	H		5340-619-7231	RING, RETAINING: crankshaft washer (MS9013-34)	ea	1			*	
			C	H		2805-695-7236	WASHER, THRUST: retaining gear (8331361)-----	ea	1			*	
			C	H		2805-358-3366	ROD: W/BEARING, assy (7739502) -----	ea	2			*	
			P	H		2805-654-3542	RING SET: PISTOn standard (44940-113A51)-----	ea	≠			*	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) CODE Main- tenance- Level	(d) Recov- erab- ility				(a) 100 CO OR BRTY	(b) EQUIPMENTS SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (ML31A3C) - CONTINUED</u>						
							<u>CRANKSHAFT, FLYWHEEL, PISTON AND RINGS (NON-ILLUSTRATED) - CONTINUED</u>						
			P	H		280-5459-7760	PISTON, INTERNAL COMBUSTION: W/PIN ASSY (7739556)	EA	2			*	
			P	H		5340-205-5136	RING, RETAINING: PISTON PIN (7739555) -----	EA	2			*	
			P	H		2805-358-2228	BEARING, SLEEVE: PISTON PIN (7739569) -----	EA	2			*	
			C	H		3120-358-2124	BEARING: CRANKSHAFT TO CONNECTING ROD (7739489)--	EA	4			*	
			P	H		5310-358-3799	WASHER, KEY: CONNECTING ROD BOLT (7739570)-----	EA	4			*	
			C	H		5315-358-2913	KEY, WOODRUFF: CRANKSHAFT, FLYWHEEL (7739623)	EA	1			*	
							<u>CAMSHAFT AND GEAR, VALVES AND RELATED PARTS (NON-ILLUSTRATED)</u>						
			P	F		3110-151-9147	BALL, BEARING: governor cup (145658) -----	EA	10			*	
			P	H		2805-458-5361	SPACER, BALL BEARING: camshaft, gear (8331604)	EA	1			*	
			P	F		5340-358-5073	SHIM: governor flyball (8331600) -----	EA	1		*	*	
			C	H		5310'492-9246	WASHER, FLAT: thrust, camshaft gear (7739641)	EA	1			*	
			P	H		2805-358-2331	CAMSHAFT ASSY, ENGINE: (7739543) -----	EA	1			*	
			P	F		2805-537-2124	LOCK, VALVE SPRING RETAINER WASHER: (8331374)	EA	8		1.3	1.3	
			P	H		2805-358-2673	GUIDE: valve (8331373) -----	EA	4			*	
			P	F		2805-641-7395	GASKET: intake valve guide (8331371) -----	EA	2		.5	.5	
			P	H		2805-695-4755	INSERT: valve, intake (7739551) -----	EA	2			*	
			P	F		2805-358-3726	VALVE, POPPET, ENGINE: exhaust (8331404) ---	EA	2		*	*	
			C	F		2805-358-3748	VALVE, INTAKE: (7739550)-----	EA	2		*	*	
			C	H		2805-328-6794	INSERT, VALVE SEAT: exhaust valve (8331400)---	EA	2			*	
			P	F		1055-495-4788	SPRING, VALVE: (7739549) -----	EA	8		*	*	
			P	F		2805-492-9785	LIFTER: VALVE (8331407) -----	EA	4		*	*	
			P	F		2990-679-7065	BALL RACE GOVERNOR: cup (10910607)-----	EA	1		*	*	
			P	H		5340-493-1083	RING, RETAINING: snap, center pin (8331414)---	EA	1			*	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A3C) - CONTINUED</u>						
							<u>CYLINDER BLOCK GROUP (NON-ILLUSTRATED)</u>						
			C	H		3120-358-2102	BEARING, SLEEVE: crankcase (7739534) -----	ea	2			*	
			P	H		5340-359-4883	PLUG, EXPANSION: welch, camshaft (8331413)---	ea	1			*	
			C	F		2805-358-2848	HEAD: cylinder, rh (7739475)-----	ea	1			*	
			C	F		2805-374-9961	GASKET: valve cover (7739552) -----	ea	2			.5	
			P	F		5307-493-7158	STUD, PLAIN: valve box cover, mtg (8331403)---	ea	2			*	
			C	H		5315-358-3213	NAIL, DRIVE SCREW: S, crankshaft bearing stop (7739636)	ea	4			*	
			P	0		2990-324-2691	SHAFT AND ARM: (8331603)-----	ea	1		*	*	
			P	0		3110-100-0593	CUP, TAPERED ROLLER BEARING: yoke (587551)	ea	1		*	*	
			P	F		3110-151-9135	BALL, BEARING: high carbon chrome alloy, S, (governor thrust shaft) (145637)	ea	1			*	
			C	0		5307-358-3559	STUD, PLAIN: magneto bracket (7739634) -----	ea	2		*	*	
			P	0		5315-493-7116	PIN, STRAIGHT HEADLESS: magneto bracket ----	ea	2		*	*	
			P	F		2805-358-2667	GASKET: cylinder head (7739553)-----	ea	2			.5	
			C	F		2805-358-2847	HEAD, CYLINDER: left (7739476) -----	ea	1			*	
			P	F		5307-358-3634	STUD, PLAIN: cylinder head (8409683) -----	ea	10			*	
			C	F		5310-214-3059	WASHER, FLAT: cylinder head, mtg (7739637)---	ea	18			*	
			P	F		5310-358-3031	NUT, PLAIN, HEXAGON: cylinder head, 7/8 special (8331350)	ea	2			*	
			P	F		5310-638-2599	NUT, PLAIN, HEXAGON: cylinder head (8392191)	ea	2			*	
			P	F		5307-358-3633	STUD, PLAIN: cylinder head (7739635) -----	ea	8			*	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) 100 CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
			P	H		2805-358-2699	<u>AUXILIARY ENGINE (M131A3C) - CONTINUED</u> <u>ACCESSORY REPAIR PARTS SETS</u> <u>(NON-ILLUSTRATED)</u> GASKET SET: engine overhaul (5702387) ----- Composed of: 1 GASKET: crankcase base (7739501) 2 GASKET: valve box (7739552) 1 GASKET: magneto mounting (7739599) 1 GASKET: fuel pump mounting (8331579) 1 GASKET: magneto bracket (7739505) 1 GASKET: muffler to manifold (8331442) 2 GASKET: intake valve guide (8331373) 1 GASKET: gear case cover (7739506) 1 GASKET: breather valve (7739577) 2 GASKET: cylinder head (7739553) 1 GASKET: rear bearing plate (7739496) 1 GASKET SET: oil pump mounting (5702396) 2 GASKET: manifold intake (8331443) 1 GASKET: carburetor mounting (7739582) 1 SEAL: lower gear case (600286) 1 SEAL: governor shaft (7739622) 1 SEAL: crankshaft oil (50073)	EA	1				.5
			H			2805-358-2675	GEAR SET, TIMING: (8331411) -----	EA	1			*	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) QUAN- TITY PER	
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) CODE Main- tenance- Level	(d) Recov- erab- ility			(a) KIT A	(b) KIT B
							<p>SECTION III ORGANIZATIONAL TOOLS AND EQUIPMENT VEHICLE TOOL KITS</p> <p>NOTE: For field (3rd and 4th echelon) tools, see Maintenance Tool for Ordnance personnel on page for Tool Kit application reference.</p> <p>Tool kits A and B will not be issued to units unless mechanics are authorized All units should have either an A or B kit, but not both Ordnance units authorized 3rd, 4th or 5th echelon special kits will not be authorized kit A or B.</p> <p>The items listed under each pair of kits are components of those kits and may be requisitioned under their individual stock numbers Stockage of components of these tool kits which are duplicated in basix kits for other type vehicles assigned by TOE are not required beyond actual need.</p> <p>The quantities shown in sub-column 5(a) and 5(b) indicate the number of component items allotted to the particular tool kit shown.</p> <p style="text-align: center;">M131A3C</p> <p>TOOL KIT, TRAILER: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit A: one per lettered battery, company, headquarters of units above battalion level: battalion headquarters, when battalion has a service company (5702486)</p> <p>TOOL KIT TRAILER: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit B: one per battalion and regiment headquarters (except when battalion or regiment has a service company): service company, numbered battery, company: and similar headquarters performing maintenance work for other units (5702487)</p> <p>REMOVER and REPLACER: (brake shoe return) (7950060) - - - - -</p> <p>REPLACER: axle oil seal wipers (7950136) - - - - -</p> <p>WRENCH, SOCKET: wheel bearing adjusting nut (7076968) - - - - -</p>		
118	1					5180-05-1713			
118	2					5180-05-1714			
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						5120-795-0136			1
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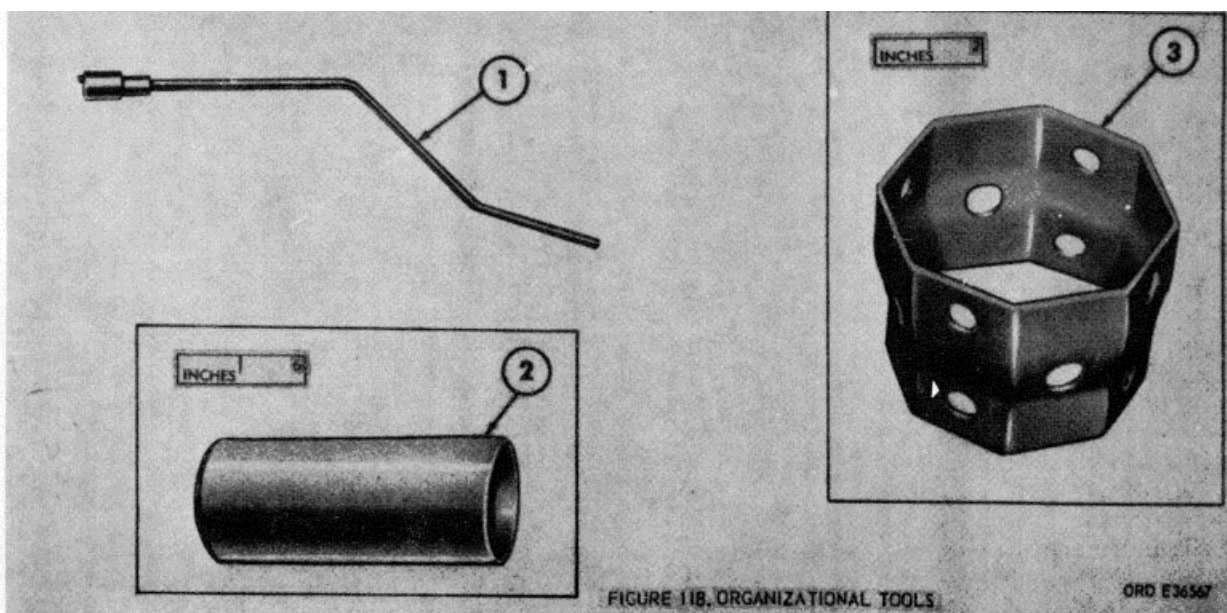


FIGURE 118. ORGANIZATIONAL TOOLS.

SECTION IV. - INDEXES - ALPHABETICAL INDEX

Standard hardware items are not included in this index because of their common and multiple application in the supply system.

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FEDERAL STOCK NUMBER INDEX

This index is prepared in numerical sequence to assist in locating items when only the Federal Stock Number is known. Standard hardware items having a common application in the supply system are not included in this index.

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For explanation of abbreviations used, see AR 320-50.

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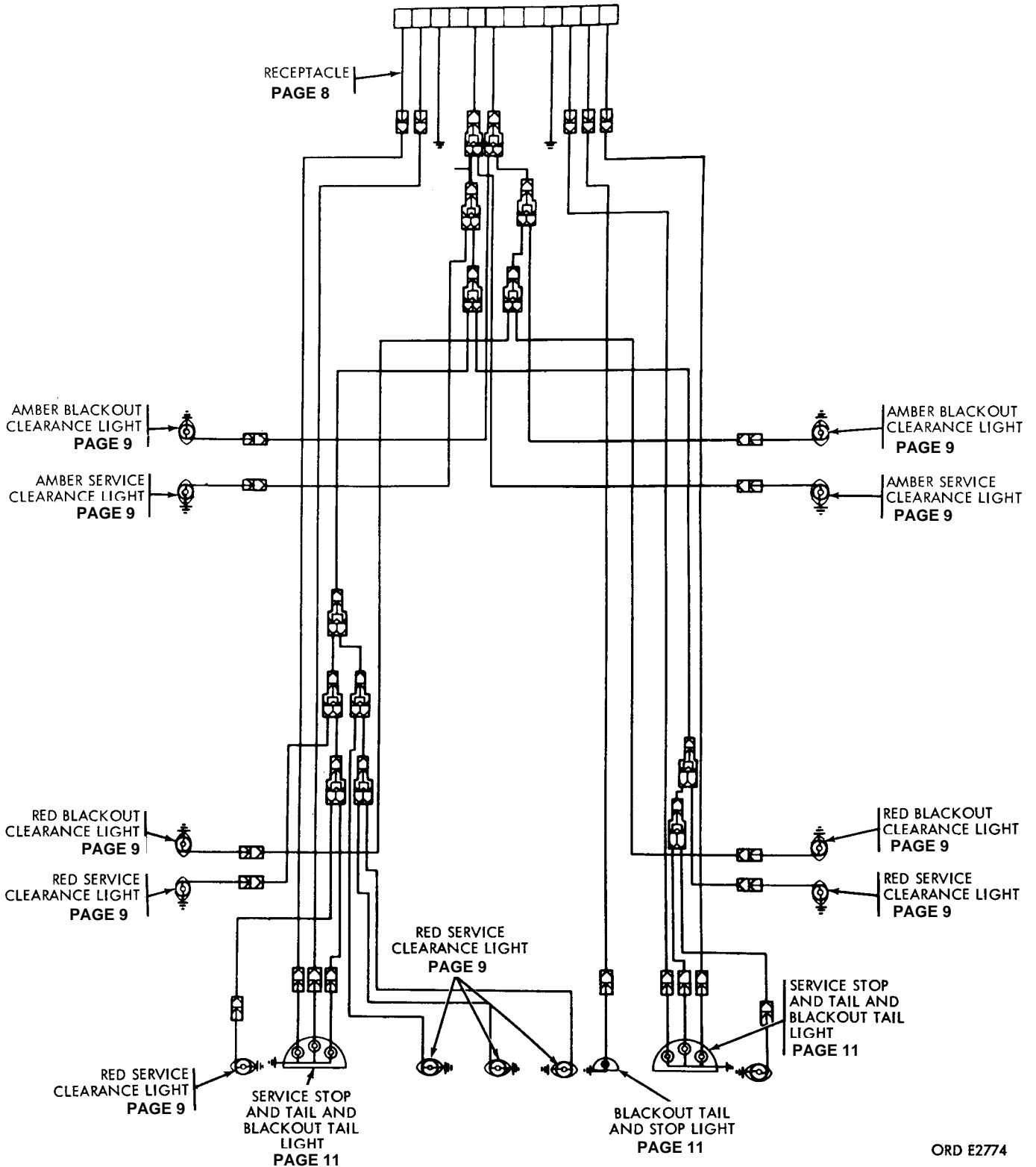
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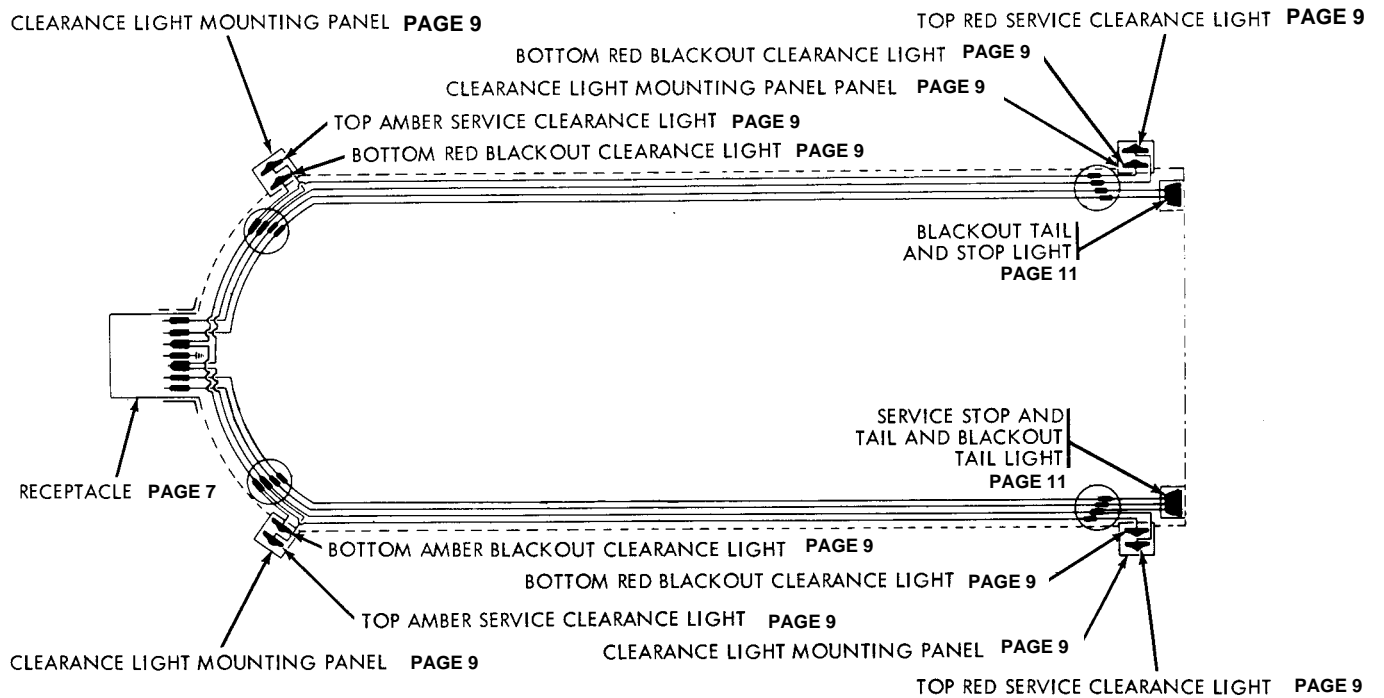
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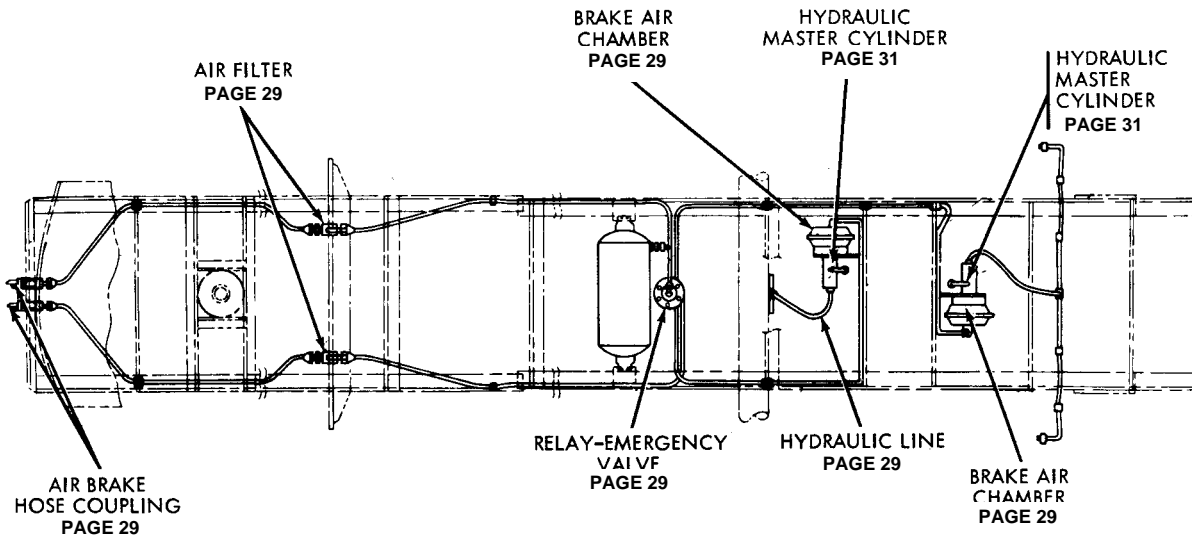
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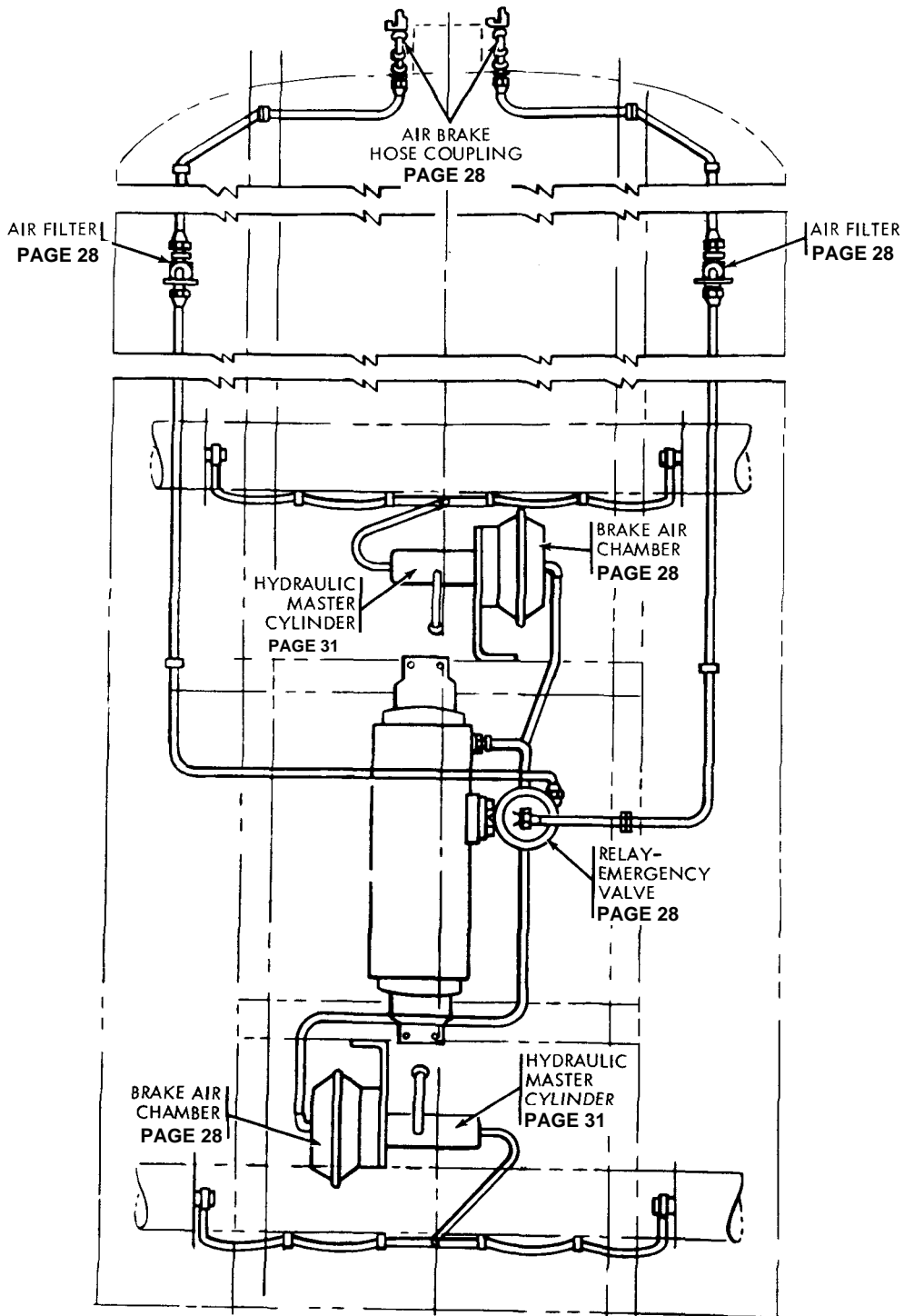
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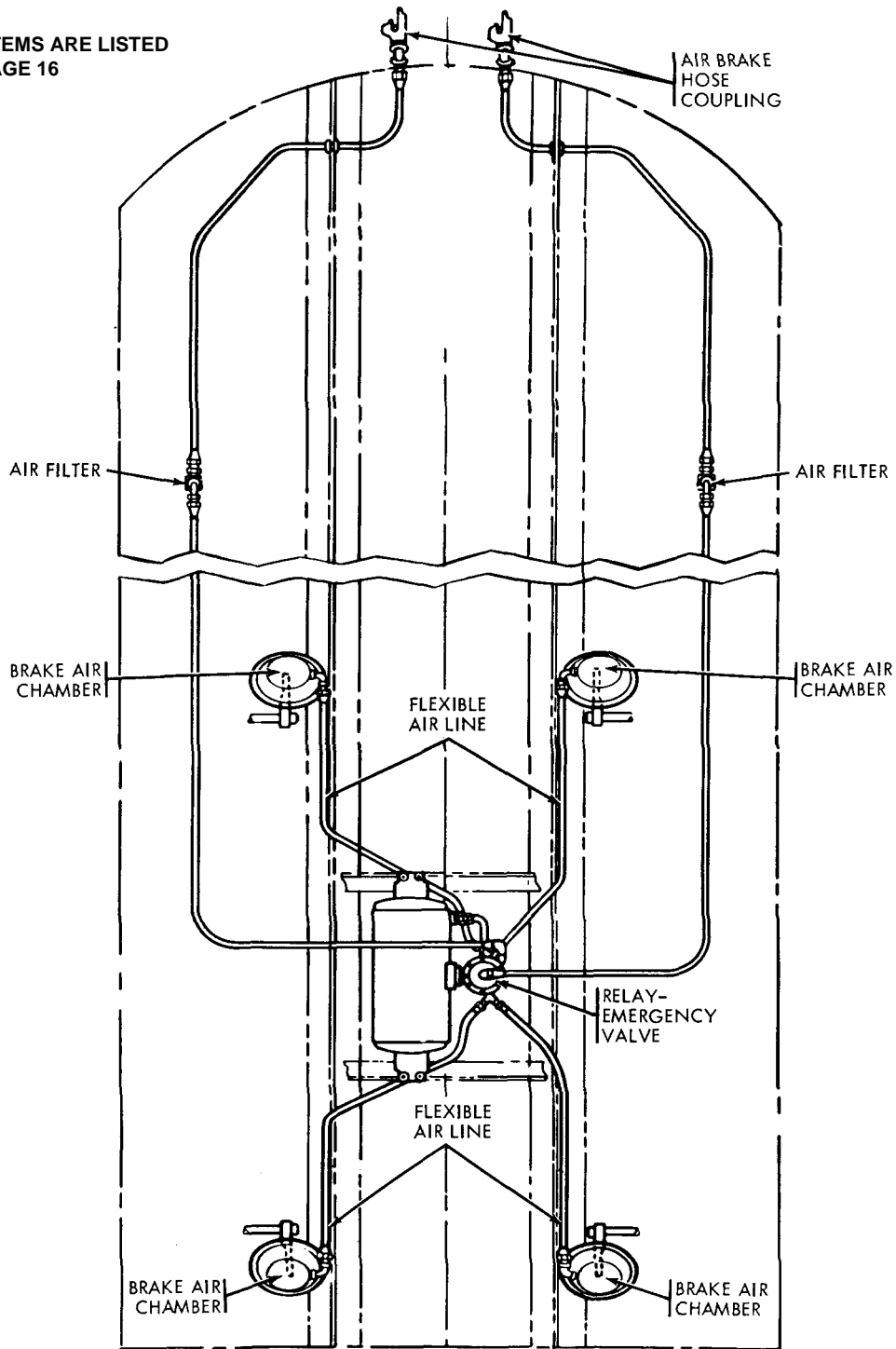


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SECTION I - INTRODUCTION PREFACE

1. GENERAL.. a. This manual is an illustrated list of repair parts and special tools authorized for organizational and field maintenance of the subject materiel.

b. Second echelon items are identified by an asterisk appearing in column 7(a) or 7(b) in the tabular listing. Items so identified comprise a complete listing of organizational parts. See par 4(g) for instructions for determining stockage items.

c. For third echelon, this list contains all items authorized for initial stockage for third echelon maintenance and for supply support to second echelon.

d. For fourth echelon, this list contains items authorized for initial stockage for fourth echelon maintenance.

e. The non-supply items are not stocked for issue and are contained herein for identification only. They are not allocated in the Field Maintenance columns.

f. For prices of Ordnance items listed herein, see the appropriate supply manual of the SM 9-2 series, Stock List of All Items - Price List. Prices of items that are the responsibility of technical services other than Ordnance may be obtained from the appropriate type 2 supply manuals for those services.

g. Additional applications of items in this manual are listed in the supply manuals of the SM 9-3 series, Stock List of Repair Parts.

2. ILLUSTRATION AND TEXT RELATIONSHIP.

a. Illustrated supply items are keyed by numbers to their text listing. In all cases, the illustration and its listing will be on the same or the facing page. See paragraph 9c for illustration symbols.

b. Non-illustrated supply items are listed under the text of the illustrated assembly to which they are most closely related.

c. Non-supply items are not listed in the text but will be identified by a key letter, name, part number in a legend on the illustration.

3. REQUISITION NOTES.

a. If the exact item requisitioned is not furnished, or if other action is necessary, the exact nature of the action taken by the supplying agency will be indicated by standard symbols on prescribed forms.

b. When requisitioning an item, the requesting agency will order the listed item. However, the supplying agencies will take necessary action to issue the exhaust stock item until stock is exhausted, whether it be an individual item, kit, set, or assembly.

4. EXPLANATION OF COLUMNS.

a. Illustrations. This column indicates the figure number of the illustration that depicts the item. When more than one item appears on the illustration, the item number is also indicated.

b. Source, Maintenance, and Recoverability Code. This column lists a code that indicates the selection status and source of supply of the repair part, the lowest echelon authorized to install or manufacture the repair part, and the recoverability and expend- ability aspects of the repair part. An example of this code is P-O-R. The "P" indicates that the item is a mission stockage list repair part procured and stocked on a national program basis, the "O" indicates the repair part is authorized to organizational echelons, and the "R" indicates that the repair part is an expendable, recoverable item. When repair parts supply responsibility has been assigned to a technical service other than Ordnance, the basic number of the supplying technical service is listed in column 2a, for example, "11" for a Signal Corps item. Refer to paragraph I1a for an explanation of all codes appearing in this manual.

c. Federal Stock Number. This column lists the Federal stock

number assigned by the Cataloging Division, Armed Forces Supply Support Center.

d. Description. The Federal item name (shown in capital letters) and any additional description required for supply operations are listed in this column. All dimensions listed are in inches unless otherwise specified. For further identification, the technical service or manufacturer's part number is parenthetically listed at the end of each nomenclature.

e. Unit of Issue. The Unit of Issue column lists the actual unit of issue for each item "ea" (each), "lg" (long), "ft" (foot), etc.).

f. Quantity Incorporated in Unit. The quantity shown in this column indicates the number of the listed item required for the particular use indicated. This quantity does not reflect the total quantity of the part required for the vehicle since the part may have other functional uses.

g. 15-Day Organizational Maintenance Allowance Per 100 Equipments. An asterisk in either column indicates an authorized organizational repair part. Refer to TM 9-2300-223-20P, Master Prescribed Load List, for allowance factors for items to be stocked. All other organizational parts can be requisitioned as required for immediate use only.

h. 15-Day Field Maintenance Allowance Per 100 Equipments.

(1) This column lists an allowance factor which is based on the latest mortality data and is the estimated average quantity of the item required to provide field maintenance and, where applicable, supply support for 100 equipments for a 15-day period under combat conditions. A decimal fraction system is used to express the allowance factors.

(2) Since the allowance factors are based on 100 equipments, it is necessary to compute the exact quantity authorized. The quantity is determined by use of a simple mathematical formula. Resulting fractional values of 0.5 or larger will be rounded to the next higher whole number. Fractional values below 0.5 will be rounded to the next lower whole number.
Example 1: If the number of equipments supported is 30, and the allowance for 100 equipments is 1.9, the following computation would be made:

$$\frac{30 \times 1.9}{100} = 0.57$$

Since the resulting figure is larger than 0.5, the echelon would be authorized a quantity of 1.

Example 2: If the number of equipments supported is 89, and the allowance factor for 100 equipments is e.4, the following computation would be made:

$$\frac{89 \times 3.4}{100} = 3.026$$

In this instance, the result is rounded to the next lower whole number since the fractional value is less than 0.5 and the echelon would be authorized a quantity of 3.

(3) Additional items not expected to fail during the first year, but may be required to perform authorized field maintenance in subsequent years, are listed with no allowance factors shown. These parts are identified by an asterisk (*) in the allowance columns and are to be requisitioned for immediate use only.

(4) The determined computed quantity represents the initial stockage for a 15-day period. Major commanders will prescribe the period of time that will be used to compute stockage for each echelon.

(5) Field supply units (fourth-echelon tables of equipment sup-

ply companies and posts, camps, and stations) will compute their loads considering the number of Ordnance units to be supported and/or major item density, and utilizing figures in the field maintenance column.

(6) To enable the Ordnance Corps to make equitable distribution of the total stock of any one item, Ordnance organization commanders should limit their requisitions and stocks to the absolute minimum requirements that are estimated to be necessary for each contemplated tactical operation. The chief Ordnance officer of a force is responsible that various Ordnance units in the force do not use the same items in computing their stocks; for example, if there is a grand total of 102 semitrailers in the entire force, each Ordnance unit in the force should not claim the entire 102 semitrailers as a basis for computing its stocks. The chief Ordnance officer must allocate, for repair-parts-stockage purposes, the number of items in the force among the various units. See Supply Functions of the Company, FM 9-10.

5. HOW TO FIND PARTS. This manual is arranged by vehicular components (i.e., electrical, suspension, etc.). Parts may be located if one of the following identifying factors are known. All references list the page numbers on which the assembly or part may be found.

a. Major Component, Assembly, or Location. Refer to Visual Table of Contents on pages iii through vi.

b. Function, Use, or Location. Refer to the Table of Contents which lists the titles of all illustrations and non-illustrated items. The non-illustrated items, if any, are listed with closely related illustrated assemblies or components.

c. Nomenclature (basic noun name). Refer to the Alphabetical Index on page 85.

d. Federal Stock Number. Refer to the Federal Stock Number Index on page 89.

6. ATTACHING PARTS. In some cases, non-illustrated, attaching and/or closely related items are listed indented directly beneath the items to which they pertain.

7. PERTINENT PUBLICATIONS. The following publications pertain to this vehicle and its components.

PUBLICATION NO.	TITLE
LO 9-8216	Semitrailer, Tank: Gasoline, 12-Ton, 4-Wheel, M131, M131A1, M131A2.
TM 9-2330-208-15	Operators and Organizational, Field, and Depot Maintenance Manual, Semitrailer, Tank: Gasoline, 12-Ton, 4-Wheel, M131, M131A1, M131A2.
TM 9-2300-223-20P	Master Prescribed Load List Tank-Automotive Materiel.

8. SPECIAL INFORMATION. Because of differences in the electrical system, brakes, suspension and auxiliary engine, this manual is arranged by system or assembly for each model(s). When a group of illustrations and supporting text covers a specific model(s), the model designation appears in the group heading. A single illustration pertaining to a specific model(s) has that model designated in the illustration caption. Any deviation to the group or illustration model designation is shown in the description column.

9. ABBREVIATIONS AND SYMBOLS.

a. Abbreviations.

al	aluminum
al-alloy	aluminum alloy
alloy-S	alloy steel
anld	annealed
assy	assembly(ies)
bn	battalion
br	brass

btry	battery
cand-bay-base	candelabra bayonet base
cd	cadmium
cd-pltd	cadmium plated
cp	candle power
dbl	double
dbl-fil	double filament
deg	degree(s)
dia	diameter
Ech	Echelon
elec	electric(al)
expl	explosive
exter	external
ext-teeth	external teeth
fil-hd	fillister head
fin.	finish(ed) (ing)
gen	general
gl vd	galvanized
hdl	handle(d)
hex-hd	hexagon head
hyd	hydraulic
id	inside diameter
inc	incorporated
int-teeth	internal teeth
IUD	issue until depleted
lh	left hand
low-carb-S	low carbon steel
maint	maintenance
med	medium
MI	malleable iron
MIL-STD-CODE	Military Standard Code
min	minimum
mtg	mounting(s)
NC	American National Coarse Thread
NEF	American National Extra Fine Thread
NF	American National Fine Thread
nom	nominal
NPT	American Standard Taper Pipe Threads
NPTF	American Standard Taper Pipe Threads(Dryseal)
od	outside diameter
pan-hd	pan head
qty	quantity
rad	radial
rd-hd	round head
regt	regiment
rh	right hand
ru	rubber
S	steel
sep	separate
sgle	single
sq-end	square end
sq-hd	square head
sr	single row
stght	straight
sup	support
thd	thread(ed) (s)
thkol	tholeraick(ness)
tol	tolerance
UNC	Unified Coarse Thread
UNF	Unified Fine Thread
v	t(s)
w	watt, wide, width
w/	with
w/o	without
wtrprf	waterproof
x	by (as in 2 x 4)
zn-pltd	zinc plated

b. Text Symbols.

- /= As required.
- * Columns 7(a) and 7(b) indicates organizational items (see par 4(g)).
- * Columns 7(c) and 7(d), and 8 indicates items authorized for replacement, but not authorized for stock.
- ☆ Indicates items available separately.
- ☆ ☆ Indicates items available as parts of listed kits or sets.

c. Illustration Symbols.

- Circle indicates parts allocated to 2nd echelon.
- Square indicates parts allocated to 3rd echelon.
- △ Triangle indicates parts allocated to 4th echelon.

10 EXPLANATION OF CODES.

a. Technical Service Basic Number Code.

- 5 Corps of Engineers
- 10 Quartermaster Corps
- 11 Signal Corps

b. Source Code.

- P Applies to repair parts which are high mortality parts; procured by technical services, stocked in and supplied from the technical service depot system, and authorized for use at indicated maintenance echelons.
- C Applies to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
- X2 Applies to repair parts which are not stocked. The indicated maintenance echelon requiring such repair parts will attempt to obtain from salvage. If not obtainable from salvage, such repair parts will be requisitioned with supporting justification through normal supply channels.

c. Maintenance Code.

- O Assigned to all repair parts authorized to first (1st) and second (2d) echelons.
- F Assigned to repair parts authorized to field maintenance, third (3d) echelon level.

- H Assigned to repair parts authorized to field maintenance but restricted to fourth (4th) echelon.

d. Recoverability Code.

- R Indicates a repair part or assembly that is expendable and recoverable and is economically repairable and, when available, is furnished by supply on an exchange basis.
- S Indicates a repair part that is expendable and recoverable and which maybe placed in "ready for issue" condition by one or more of the refinishing, cleaning, replating, anodizing, adjusting, welding, etc., processes.

11 MANUFACTURER'S SYMBOLS.

<u>Symbol</u>	<u>Manufacturer</u>
23705	Fruehauf Trailer Co.
38455	Marlow Pumps Div (Bell and Gossett Co)
40342	Midland Steel Products Co.
44940	Onan, D W and Sons, Inc.
71300	Budd Wheel Co.
73625	Crescent Mfg Co.
78500	Timken Detroit Axle Co.
82769	Phipps, J H Lumber Co.
96906	Military Standards

12 SUGGESTIONS AND RECOMMENDATIONS Notice of discrepancies and recommendations for additions and deletions of repair parts and special tools should be forwarded on DA Form 2028 to Commanding Officer, Raritan Arsenal, Metuchen, New Jersey, ATTN: ORDJR-OPRA.

MAINTENANCE TOOLS FOR ORDNANCE PERSONNEL

Special Tools required by Ordnance Organizations for maintenance of the Major Items are issued as required. Applicable Tool Kits are listed below.

<u>REFERENCE</u>	<u>NOMENCLATURE</u>	<u>STOCK NUMBER</u>
	<u>M131</u>	
SM 9-45180-V13	TOOL KIT: Field Maintenance (3rd echelon), Special, Basic	5180-390-5415
SM 9-45180-V13	TOOL KIT: Field Maintenance (4th echelon), Special, Basic	5180-390-5420
	<u>M131A1 - M131A2</u>	
SM 9-45180-V17	TOOL KIT: Field Maintenance (3rd echelon), Special, Basic	5180-605-1715
SM 9-45180-V17	TOOL KIT: Field Maintenance (4th echelon), Special, Basic	5180-605-1716

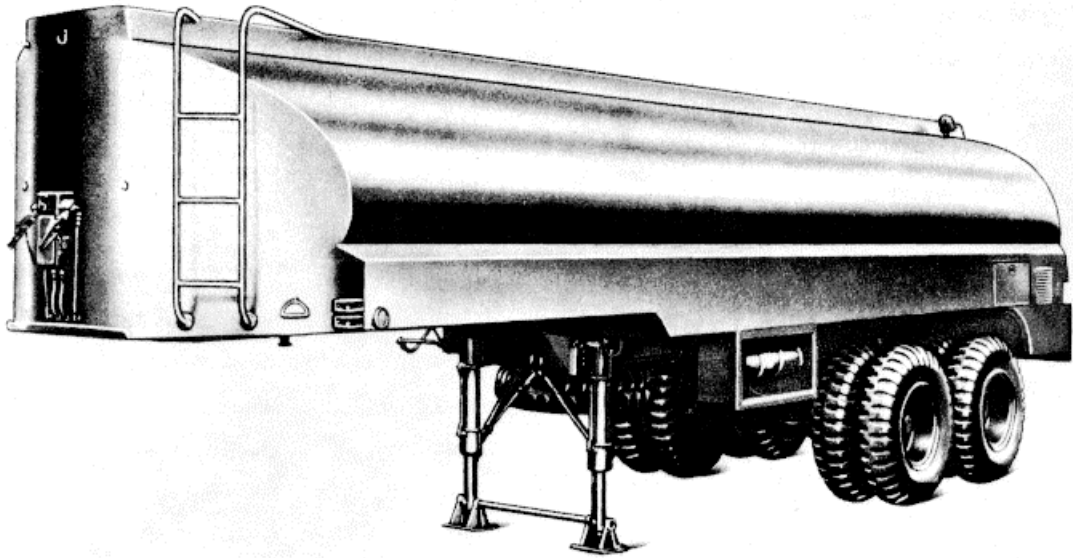


FIGURE 1. SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL, M131-LEFT FRONT VIEW.

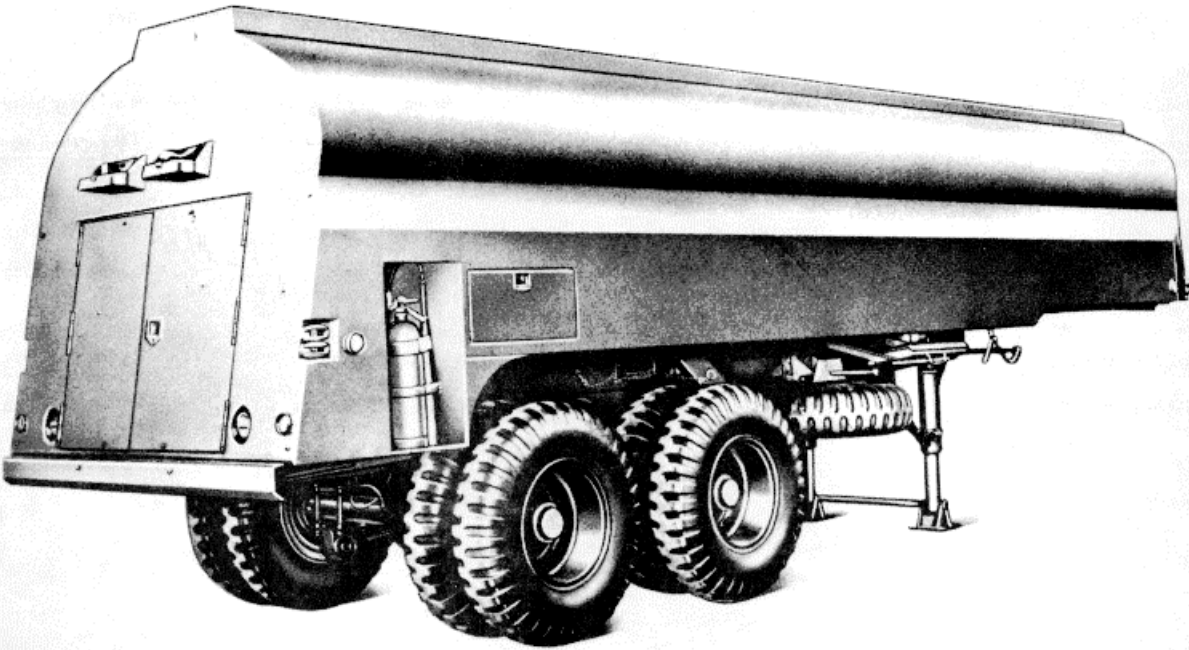


FIGURE 2. SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL, M131-RIGHT REAR VIEW.

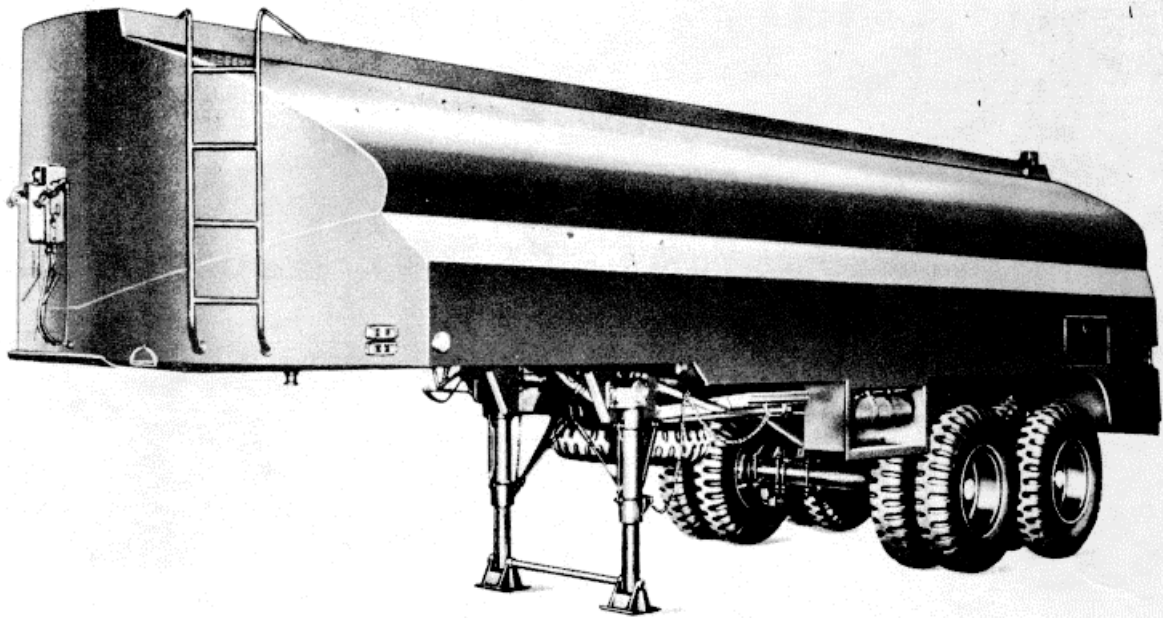
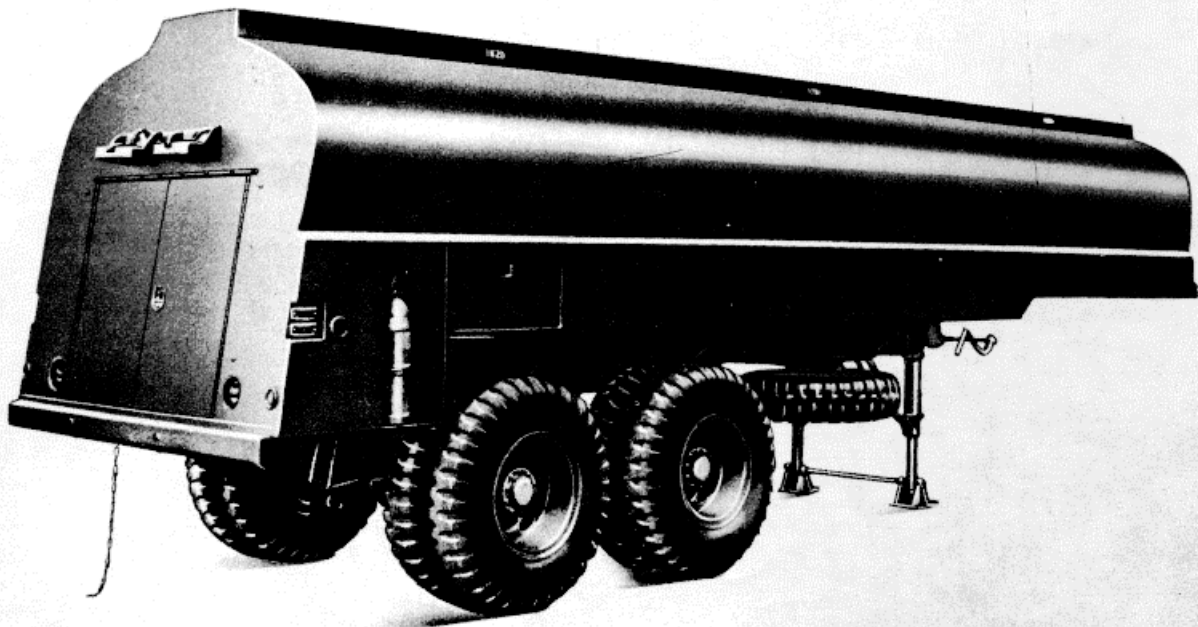


FIGURE 3. SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL, M131A1-LEFT FRONT VIEW.



ORD E2454.

FIGURE 4. SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL, M131A1-RIGHT REAR VIEW.

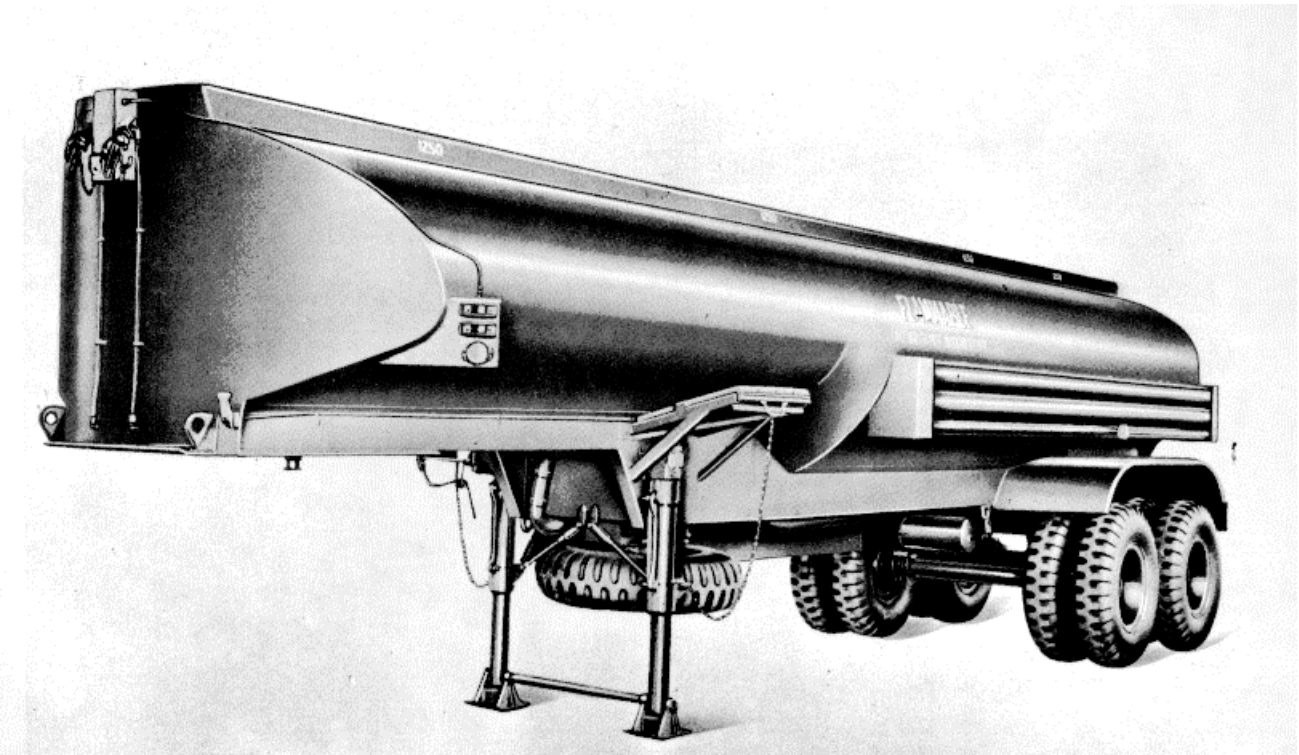


FIGURE 5. SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL, M131A2-LEFT FRONT VIEW.

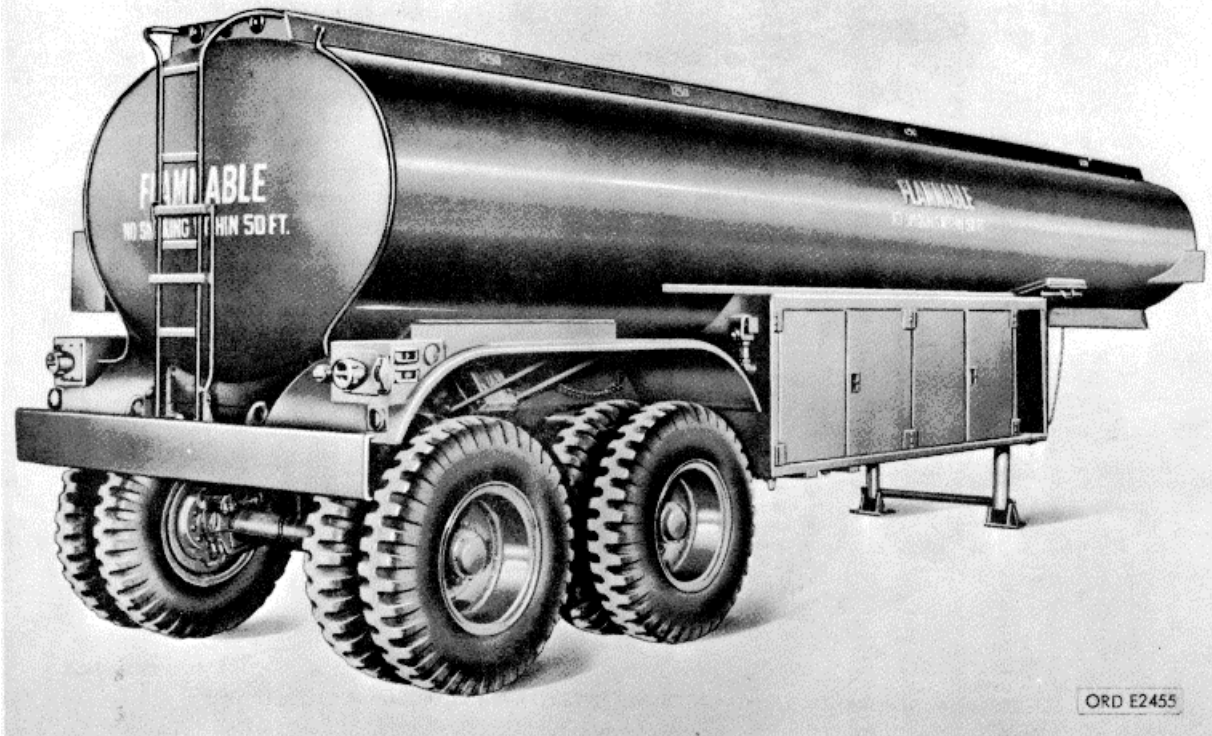


FIGURE 6. SEMITRAILER, TANK: GASOLINE, 12-TON, 4-WHEEL, M131A2-RIGHT REAR VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- ten- ance- Level	(d) Recov- erab- ility				(a)	(b)	(c)	(d)	
									CO OR BRTY	SEP CO SEP BN OR REGT	3rd ECH (DIR SUP)	4th ECH (GEN SUP)	
SECTION II													
<u>ORGANIZATIONAL AND FIELD MAINTENANCE</u>													
<u>REPAIR PARTS</u>													
<u>ELECTRICAL SYSTEM</u>													
<u>WIRING HARNESS, CONNECTORS, AND RECEPTACLES</u> (M131 AND M131A1) (FIG 7)													
7	1		P	O		5935-773-1428	COVER, receptacle, w/HINGE, assy (7731428)-----	ea	1	*	3	3	
7	2		P	O		5935-306-2062	RECEPTACLE: cable, inter-vehicular, assy (8376208)-----	ea	1	*	3	3	
			P	O		5310-012-0367	NUT, PLAIN, HEXAGON: S, 1/4-28UNF-2B, 7/16w, 7/32 thk (120367)	ea	4	*	5	5	
			P	O		5305-021-4420	SCREW, MACHINE rd-hd, S, 1/4-28UNF-2A x 7/8 (214420)	ea	4	*	5	5	
			P	O		5310-012-0380	WASHER, LOCK: split, 5, 1/4 bolt size (120380)-----	ea	4	*	5	5	
7	3	10	P	O		5325-090-5426	GROMMET, RUBBER: electrical connector (twelve 0.118 IN cable holes, 1.360 od) (7722333)	ea	2	*	8	8	
7	4		P	O		5975-507-6905	NUT: grommet, retaining, elec.connector, al, cd-pltD, 1-5/8 18NEF-2 x 1 (7723309)	ea	1	*	2	2	
7	5		P	O		2920-040-2422	HARNESS: wiring, w/CONNECTORS, assy (M131) (8330286)-	ea	1	*	1	1	

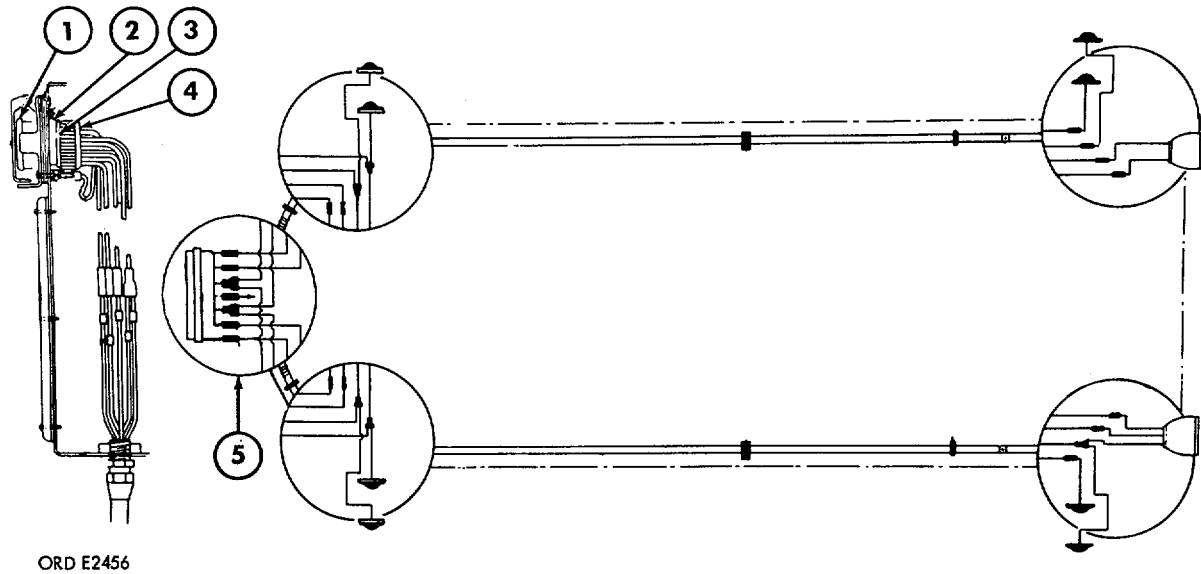


FIGURE 7. WIRING HARNESS, CONNECTORS, AND RECEPTACLES (M131 AND M131A1)-SCHEMATIC VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
ELECTRICAL SYSTEM- CONTINUED													
WIRING HARNESS, CONNECTORS, AND RECEPTACLES (M131A2) (FIG 8)													
8	1		P	O	5935-773-1428	COVER: receptacle, w/HINGE, assy (7731428)-----	ea	1		*	3	3	
8	2		P	O	5935-306-2062	RECEPTACLE: cable, inter-vehicular, assy (8376208)-----	ea	1		*	3	3	
			P	O	5310-012-0367	NUT, PLAIN, HEXAGON: S, 1/4-28UNF-2B, 7/16 w, 7/32 thk (120367)	ea	4		*	5	5	
			P	O	5305-021-4420	SCREW, MACHINE: rd-hd, S, 1/4-28UNF-2A x 7/8 (214420)	ea	4		*	5	.5	
			P	O	5310-012-0380	WASHER, LOCK: split, 5, 1/4 bolt size (120380)-----	ea	4		*	5	5	
8	3	10	P	O	5325-090-5426	GROMMET, RUBBER: receptacle connector -----	ea	1		*	2	2	
8	4		P	O	5975-507-6905	NUT: grommet, retaining, elec connector, al, cd-pltd, 1-5/8-18NEF-2 x 1 (7723309)	ea	1		*	2	2	
8	5		P	O	5935-699-9044	CONNECTOR: assy 7982404)----- NON-ILLUSTRATED ITEMS	ea	13		*	*	1.7	1.7
			P	O	5935-833-8561	SHELL, ELECTRICAL CONNECTOR: main harness (8338561)---	ea	59		*	*	2.1	2.1
			P	O	1015-833-8566	SHELL: female (8338566)-----	ea	16		*	*	1.7	1.7
			P	O	5935-833-8562	SLEEVE: electrical connector (8338562)-----	ea	16		*	*	2.1	2.1

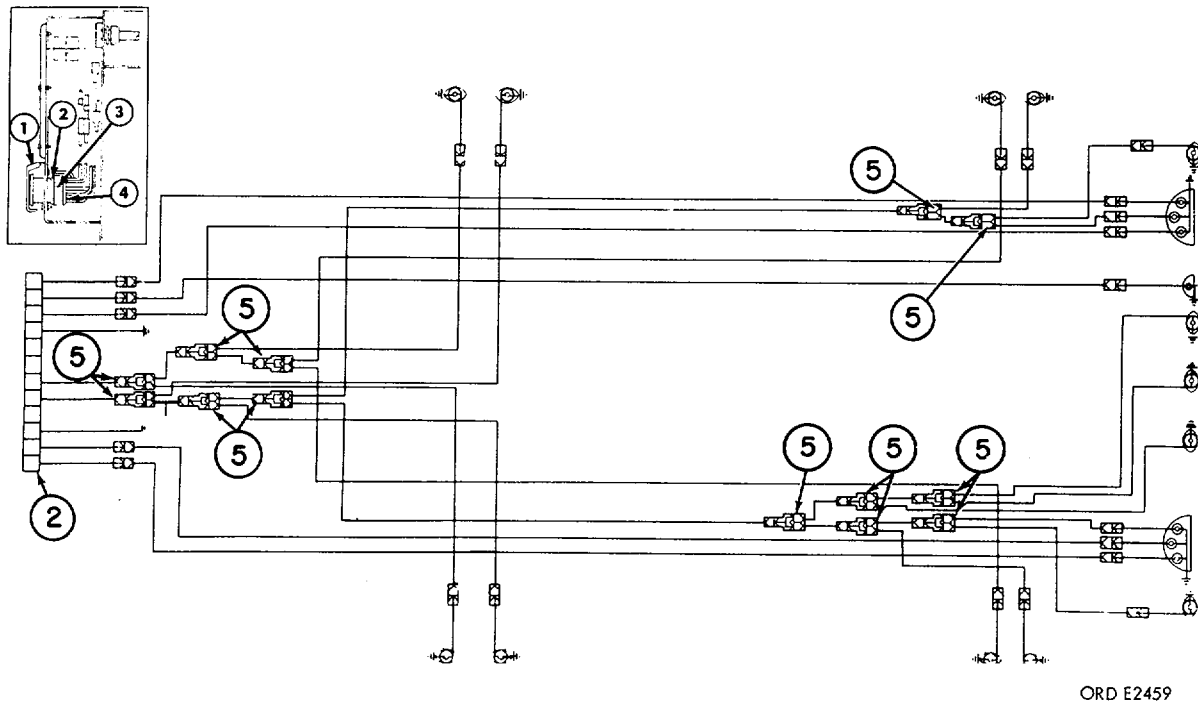


FIGURE 8. WIRING HARNESS, CONNECTORS AND RECEPTACLES (M131A2) - SCHEMATIC VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>ELECTRICAL SYSTEM - CONTINUED</u> <u>CLEARANCE LIGHTS (FIG 9)</u>													
9	1		P		0	6220-741-1847	LIGHT, CLEARANCE: WTRPRF, W/O LAMP, LENS, OR FILTER 07411847)	EA	8	*	*	2	2
9	-2	5	P		0	6240-019-0877	LAMP, INCANDESCENT:MIN, 24-28 V, 3 CP, DBLE-FIL, NO 1251 (SGL-CONTACT, CAND-BOYBASE, G-6BULB, TWO C-2V FILS IN SERIES)	EA	8	*	*	5	2
9	3		P		0	6220-752-5994	LENS, CLEARANCE MARKER LIGHT: SERVICE, PLASTIC, AMBER (FRONT) (7525994)	EA	2	*	*	4	4
9	3		P		0	6220-752-5995	LENS, CLEARANCE MARKER LIGHT: SERVICE, PLASTIC, RED (REAR) 7525995)	EA	2	*	*	4	4
9	4		P		0	6220-752-5992	LENS, CLEARANCE MARKER LIGHT: PLASTIC, AMBER, W/FILTER (FRONT) 07525992)	EA	2	*	*	4	4
9	4		P		0	6220-752-5993	LENS, CLEARANCE MARKER LIGHT: PLASTIC, RED, W/FILTER AND SHIELD, ASSY 07525993)	EA	2	*	*	4	4
9	5		P		0	6220-752-6516	DOOR: CLEARANCE LIGHT 7526516)-----	EA	8	*	*	8	8
9	6		P		0	5330-353-0959	GASKET: MOUNTING, FELT, 1/16 THK (7526509)-----	EA	8	*	*	3	3
			P	O		6220-772-3899	BLACKOUT MARKER LIGHT (NON-ILLUSTRATED) LIGHT, MARKER, CLEARANCE: BLACKOUT, ASSY (M131A2) (723899)	EA	1	*	*	3	3
			P	O		5310-550-0777	NUT, PLAIN, HEXAGON: LOW-CARB-S, 1/4-20UNC-2B, 7/16W, 5/32 THK (96906-35690-402)	EA	4	*	*	5	5
			P	O		5305-558-3679	SCREW, MACHINE: PAN-HD, S, 1/4-20UNC-2A X 1 (96906-35225-83)	EA	4	*	*	5	5
			P	O		5310-012-0380	WASHER, LOCK: SPLIT, S, 1/4 BOLT SIZE (96906-35338-25)-	EA	4	*	*	5	5

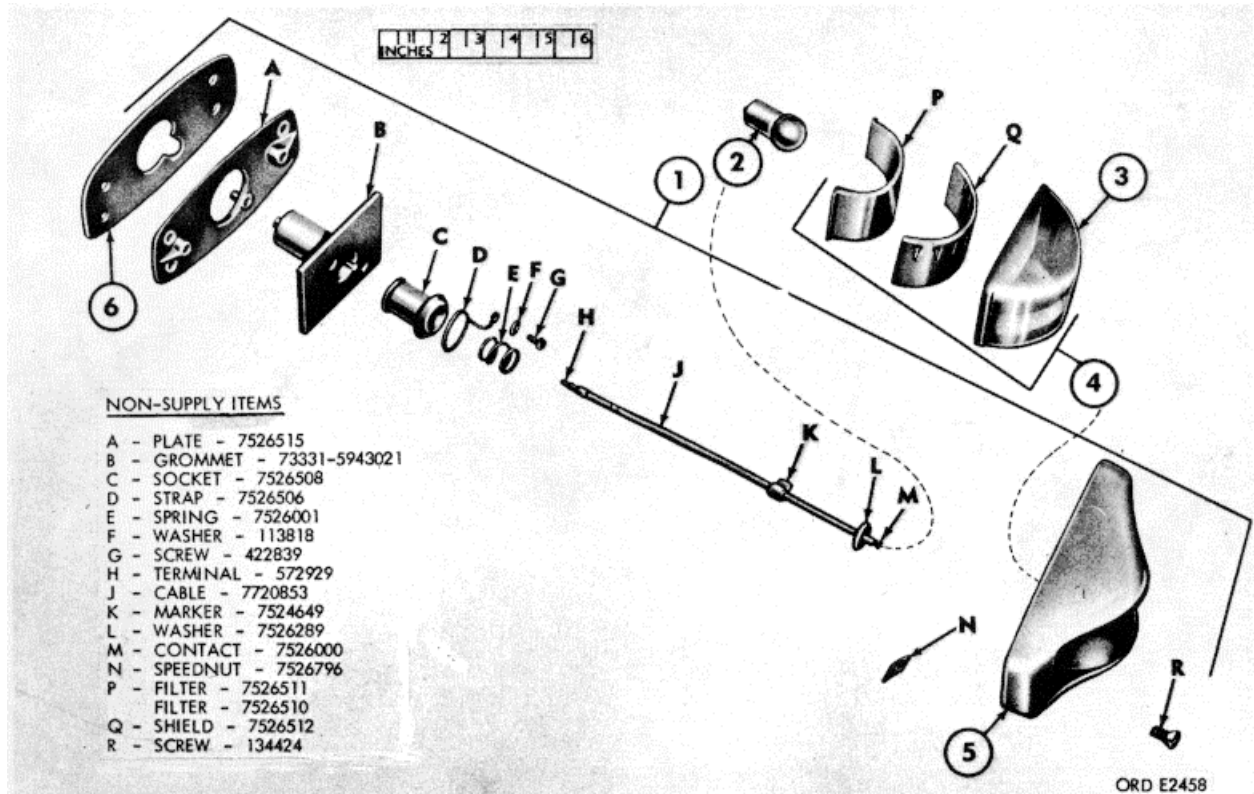


FIGURE 9. CLEARANCE LIGHT-EXPLODED VIEW.

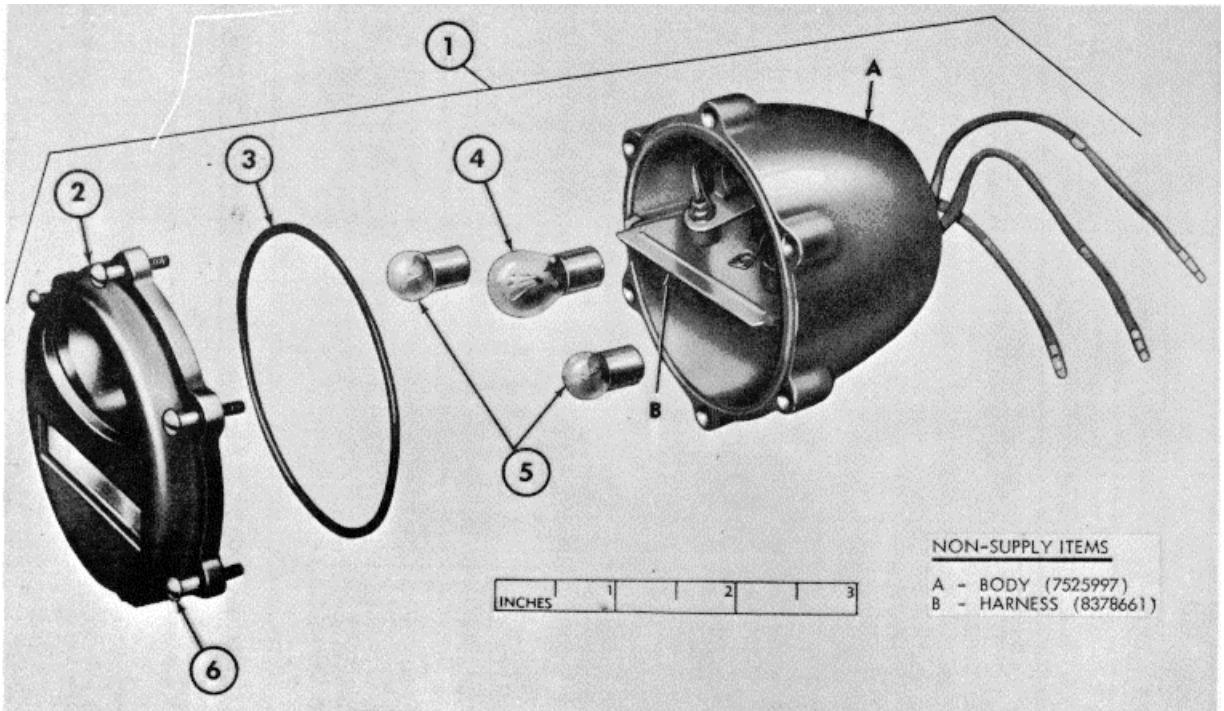


FIGURE 10. TAIL LIGHT ASSEMBLY (M131A2) - EXPLODED VIEW.

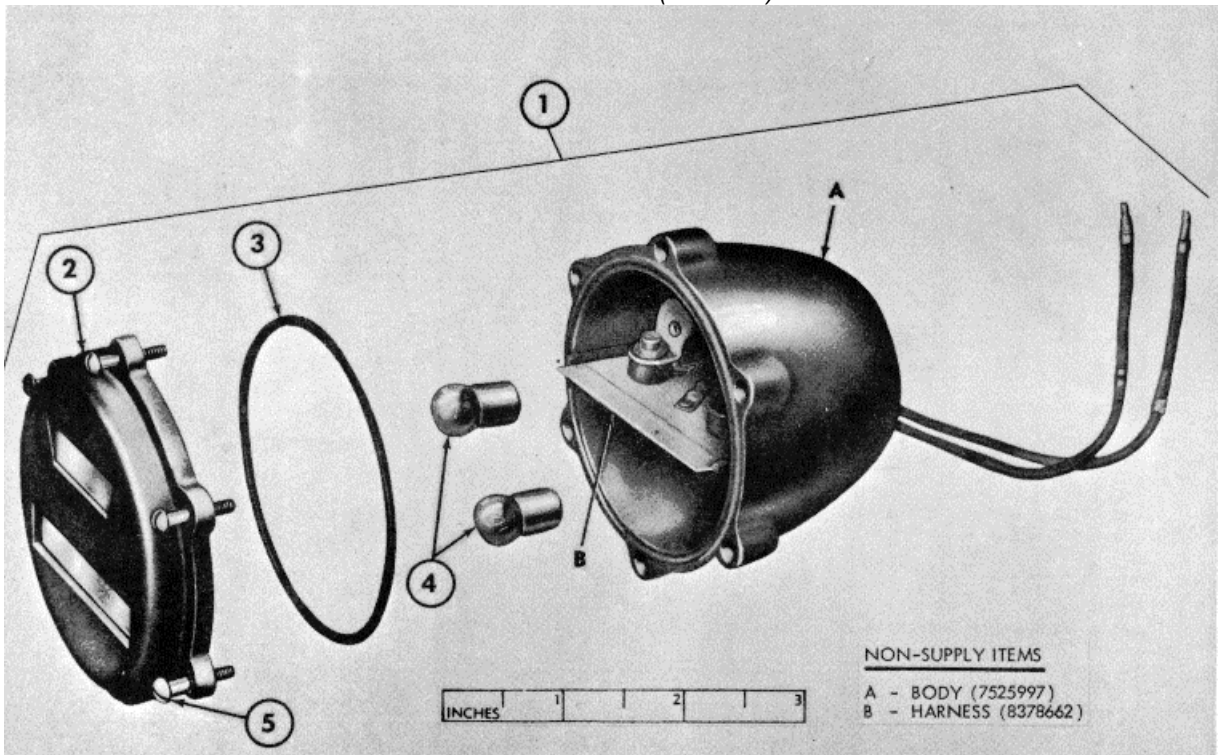


FIGURE 11. TAIL LIGHT ASSEMBLY (M131, M131A1) - EXPLODED VIEW

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>ELECTRICAL SYSTEM - CONTINUED</u>						
							<u>TAILLIGHT ASSEMBLY (M131A2) (FIG 10)</u>						
10	1		P	O	R	6220-695-1200	STOP LIGHT-TAILLIGHT ASSEMBLY: (8378785) -----	ea	2	*	*	3	3
			P	O		5305-012-2104	SCREW, CAP, HEXAGON HEAD: S, 3/8-16UNC-2A x 5/8 (96906-35291-57)	ea	4	*	*	1	1
			P	O		5310-543-2705	WASHER, LOCK: split, S, 3/8 id, 0.094 to 0.104 thk (96906-35338-27)	ea	4	*	*	1	1
10	2		P	O		6220-752-6020	DOOR: blackout tail and service tail and stop light, flange mtg w/SCREWS, assy (7526020)	ea	1	*	*	1	
10	3		P	O		5330-297-7106	PACKING, PREFORMED: ("O" ring), ru, 4.093 id, 4-5/16 od, ea 0.135 thk (7320658)	1	*	*	4.2	4.2	
10	4	5	P	O		6240-044-6914	LAMP, INCANDESCENT: min, 24-28 v, 32 cp, dble-fil, no 1683 (sgle-contact, cand-bay-be, S-8 bulb, two C-2R fil in series) (446914)	ea	2	*	*	5	2
10	5	5	P	O		6240-019-0877	LAMP, INCANDESCENT: min, 24-28 v, 3 cp, dble-fil, no 1251 (sgle-contact, cand-boy-base, G-6 bulb, two C-2V fils in series)	ea	4	*	*	5	2
10	6		P	O		5305-226-9267	SCREW, MACHINE: rd-hd, S, no 10-(0.190)-24NC-2Ax 1 (132848)	ea	6	*	*	1.5	1.5
							NON-ILLUSTRATED ITEMS						
		10	P	O		5325-353-0948	GROMMET: taillight socket, w/EYELET, assy-----	ea	4	*	*	1.7	1.7
			C	O		5935-353-0955	SOCKET: taillight, w/WIRING, assy (7526005)----- TAILLIGHT ASSEMBLY (M131, M131A1) (Fig 11)	ea	1	*	*	2	2
			P	O	R	6220-695-1200	STOP LIGHT-TAILLIGHT ASSEMBLY: (8378785) (See fig 10)-	ea	1	*	*	3	3
11	1		P	O	R	6220-337-6471	STOP LIGHT-TAILLIGHT ASSEMBLY: (8378786)-----	ea	1	*	*	3	3
			P	O		5305-012-2104	SCREW, CAP, HEXAGON HEAD: S, 3/8-16UNC-2A x 5/8 (96906-35291-57)	ea	4	*	*	1	1
			P	O		5310-543-2705	WASHER, LOCK: split, 5, 3/8 nom, 0.382 to 0.398 id, 0.688 ad, 0.094 to 0.104 thk (96906-35338-27)	ea	4	*	*	1	1
11	2		P	O		6220-752-6018	DOOR: blackout tail and stop light flange mtg, w/SCREWS, ASSY (7526018)	ea	1	*	*	1	1
11	3		P	O		5330-297-7106	PACKING, PREFORMED: ("O" ring), ru, 4.093 id, 4-5/16 AD, 0.135 THK (7320658)	ea	1	*	*	4.2	4.2
11	4	5	P	O		6240-046914	LAMP, INCANDESCENT: mln, 24-28 v, 32 cp, dble-fil, no 1683 (SGLE-CONTACT, CAND-BASE, S-8 BULB, TWO C-2R FIL IN SERIES) (446914) (SEE FIG 8)	ea	1	*	*	5	2
11	4	5	P	O		6240-019-0877	LAMP, INCANDESCENT: min, 24-28v, 3cp, dble-fil, no 1251 (SGLE-CONTACT, CAND-BAY-BASE, G-6 BULB, TWO C-2V FILS IN SERIES)	ea	2	*	*	5	2
11	5		P	O		5305-226-9267	SCREW, MACHINE: rd-hd, S, cd-or zn-pltd, no 10 24NC-2Ax 11 (132848)	ea	6	*	*	1.5	1.5
							NON-ILLUSTRATED ITEM						
		10	P	O		5325-353-0948	GROMMET: TAILLIGHT SOCKET, W/EYELET, assy-----	ea	4	*	*	1.7	1.7

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a)	(b)	(c)	(d)	
									CO OR BRTY	SEP CO SEP BN OR REGT	3rd ECH (DIR SUP)	4th ECH (GEN SUP)	
							<u>AXLE AND AIR BRAKES -(M131)</u>						
							<u>AXLE AND SERVICE BRAKE ASSEMBLY (FIG 12)</u>						
12	1		P	O		2530-797-9278	BRAKE SHOE, INTERNALLY ACTUATED: W/LINING, ASSY (79278)	EA	8	*	*	5 5	
12	2		P	O		2510-740-9567	BEARING, SLEEVE: SHOE (7409567)-	EA	8	*	*	1 1	
12	3		P	F		2530-797-9277	LINING, FRICTION: BRAKE SHOE 7979277)	EA	4			1.7 1.7	
12	4		P	F		53209589889	RIVET, TUBULAR: BR, NO 8 X 3/8 (589889)-	EA	64			5.4 5.4	
12	5		P	O		5315-012-1222	PIN, COTTER: S, 3/32X 3/4 (121222)	EA	16	*	*	2 2	
12	6 5		P	O		2530-740-9R279	PIN: RETAINING, SHOE RETURN SPRING (7409379) -	EA	8	*	*	.5 5	
12	7		P	O		2530-741-7135	KIT: REPAIR, BRAKE SHOE ANCHOR 7417135)	EA	≠	*	*	1 1	
							COMPOSED OF:						
12	7.1						8 WASHER: "C" 78500-1229W231)						
12	7.2						8 PIN: W/CAM (7850-1759J10)						

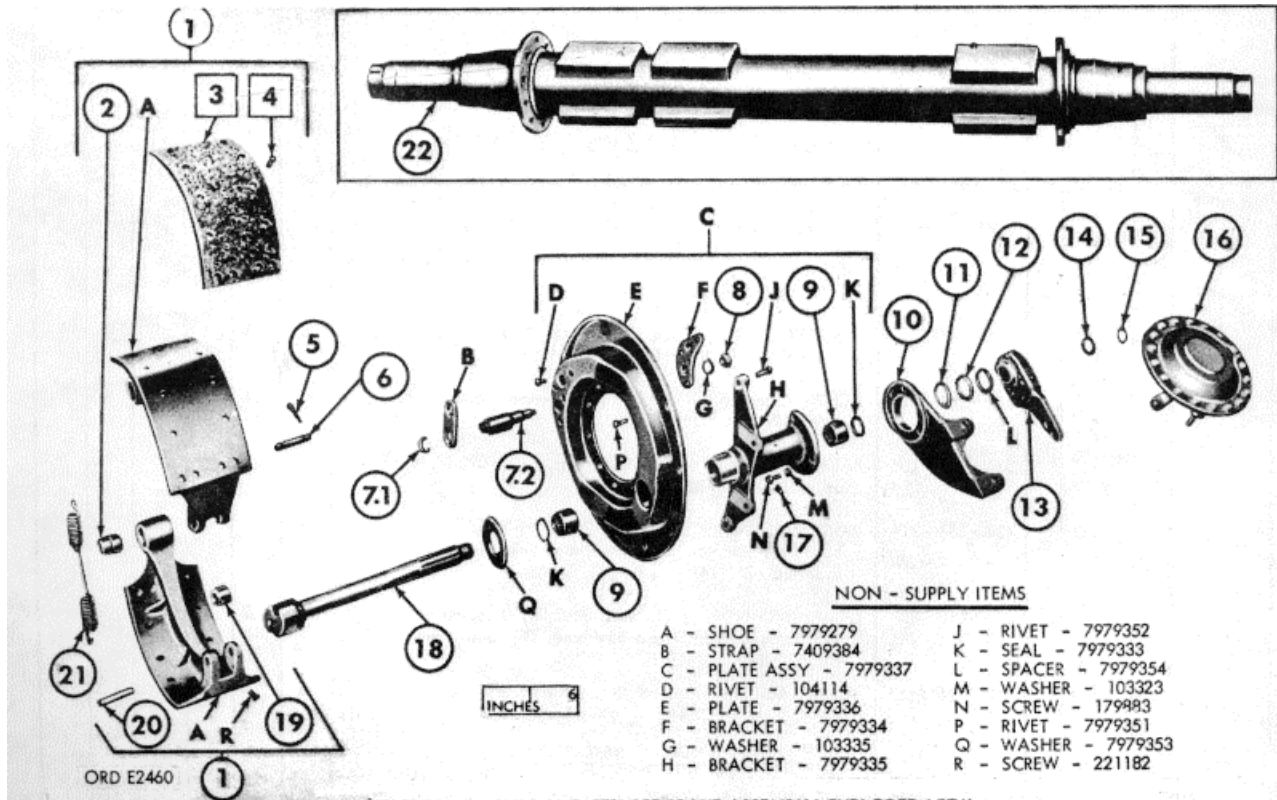


FIGURE 12. AXLE AND SERVICE BRAKE ASSEMBLY-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>AXLE AND AIR BRAKES -(M131)- CONTINUED</u>													
<u>AXLE AND SERVICE BRAKE ASSEMBLY (FIG 12) - CONTINUED</u>													
12	8		P	O		5310-275-9460	NUT, PLAIN, HEXAGON: retaining, anchor pin (7413488---	ea	8	*	4	4	
12	9		P	O		3110-120-3114	BEARING, ROLLER, NEEDLE: MIL-STD-CODE 354-02403-4300 (709439)	ea	8	*	*	1.7 1.7	
12	10		P	O		2530-797-9285	BRACKET: mounting, camshaft diaphragm, left (7979285)---	ea	2	*	*	2 2	
12	10		P	O		2530-797-9284	BRACKET: mounting, camshaft diaphragm, right (7979284)---	ea	2	*	2	2	
12	11		P	O		5310-701-4891	SPACER: camshaft, left and right (5168890)-----	ea	8	*	*	8 8	
12	12		P	O		5310-350-5551	WASHER, FLAT: 1-17/32 id, 2-1/4od, 1/32 thk (7534867---	ea	8	*	*	5 5	
12	13		P	O	R	2530-734-9533	ADJUSTER, SLACK, BRAKE: left, assy 7349533)-----	ea	2	*	5	5	
12	13		P	O	R	2530-734-9532	ADJUSTER, SLACK, BRAKE: right, assy (7349532)-----	ea	2	*	5	5	
12	14		P	O		5310-753-4865	WASHER, FLAT: left and right camshaft, inner (7534865)---	ea	8	*	*	5 5	
12	15		P	O		5340-281-2931	RING, RETAINING: S, 1-1/2 shaft dia (583044)-----	ea	4	*	*	5 5	
12	16		P	O	R	2530-797-9039	CHAMBER: air, assy (7979039) (See Fig 15 for exploded view)	ea	4	*	*	5 5	
12	17		P	O		4730-050-4208	FITTING, LUBRICATION: stght, hyd, S, 1/8NPTF short, male, (96906-15003-1)	ea	4	*	*	5 5	
12	18		P	O		2530-040-2378	CAMSHAFT: left (7979406)--- - - - -	ea	2		*	1 1	
12	18		P	O		2530-040-2379	CAMSHAFT: right (7979407)- -	ea	2		*	1 1	
12	19		P	O		2530-350-5466	ROLLER, ROCKER ARM CAM FOLLOWER: shoe cam (7534846)	ea	8	*	*	1.7 1.7	
12	20		P	O		5315-753-4847	PIN: shoe cam roller (7534847) -----	EA	8	*	*	1 1	
12	21		P	O		2530-797-9339	SPRING: return, shoe 409383)- - -	ea	4		*	8 8	
12	22		X2	O	R	2530-797-9344	AXLE, VEHICULAR, NON-DRIVING: forward and rear, w/internal FLANGE and spring seat ADAPTER (7979344)	ea	2		*	*	*
<u>NON-ILLUSTRATED ITEMS</u>													
			P	O		5305-734-6958	BOLT, MACHINE: 3/4-16NF-3 X 5-3/8, BRACKET TO TUBE CENTER (7346958)	EA	2	*	3	3	
			P	O		2510-734-6952	PLATE: BEARING, GUIDE BRACKET (7346952)---	EA	4	*	4	4	
			P	O		5310-701-4891	SPACER: CAMSHAFT, OUTER (5168890)-----	EA	8	*	5	5	
			X2	O		2510-740-9607	TUBE: CENTER, W/BRACKET, ASSY 7409607)--	EA	1				

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR BRAKES - (M131) - CONTINUED</u>						
							<u>HUB, BRAKE DRUM AND BEARINGS (FIG 13)</u>						
13	1		P	O		2530-740-9553	WIPER: HUB BEARING, OIL SEAL 17409553)	EA---	4	*	4	4	
13	2		P	O		5305-752-1631	BOLT, MACHINE: HEX-HD, S, 1/2-13NC X 1-3/4 (DRUM ADAPTER) (7521631)	EA	40	*	*	3.4 3.4	
13	3		P	O		5305-740-9389	BOLT, RIBBED SHOULDER: HEX-HD, S, 7/16-20NF-3 X 1-1/2 (7409389)	EA	40	*	3.4	3.4	
13	4		P	O		5310-012-0384	WASHER, LOCK: SPLIT, MED, S, CD- OR ZN-PLTD, 1/2 BOLT SIZE (DRUM ADAPTER) (120384)	EA	40	*	1.7	1.7	
13	5		P	O		2530-740-9394	BRAKE DRUM: (78500-3219X2052) -----	EA	4	*	*	31.3	
13	6		P	O		5310-010-3322	WASHER, LOCK: SPLIT, MED, S, PLAIN FIN., 7/16 SCREW SIZE (103322)	EA	20	*	*	3.4 3.4	
13	7		P	O		5310-283-0927	NUT, PLAIN, HEXAGON: S, 7/16-2B, 11/16W, 3/8 THK (271505)	EA	40	*	*	3.4 3.4	
13	8		P	O		2530-740-9550	SEAL, PLAIN, ENCASED: OIL, HUB BEARING (78500-A1205N 664)	EA	4	*	*	2.5 2.5	

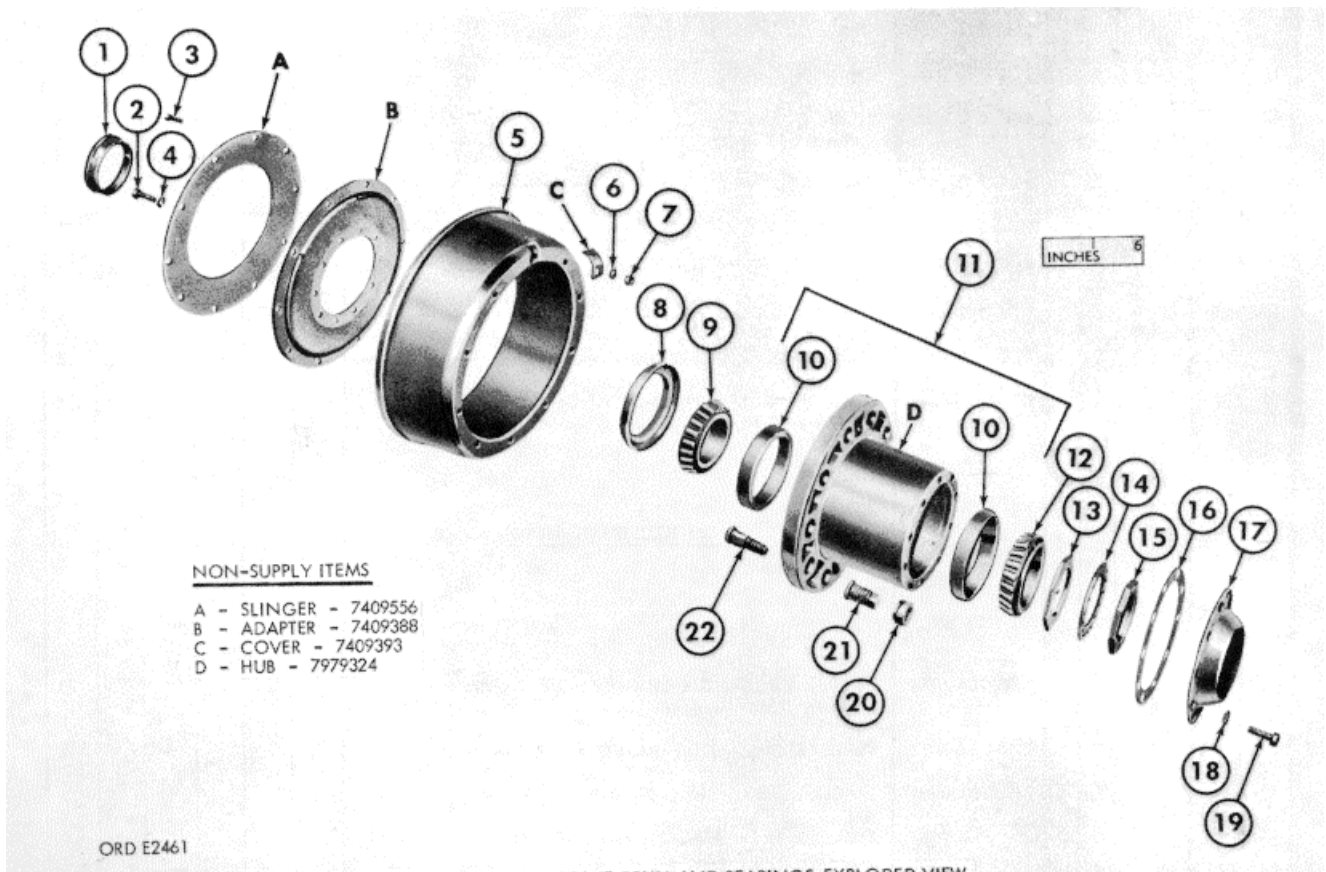
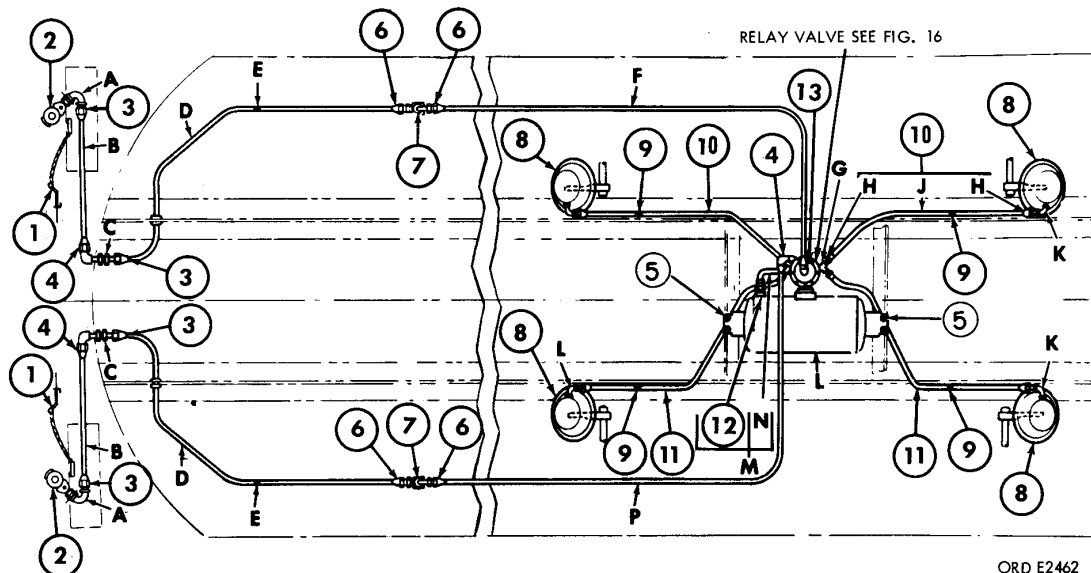


FIGURE 13. HUB, BRAKE DRUM AND BEARINGS-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
AXLE AND AIR BRAKES -(M131)- CONTINUED													
HUB, BRAKE DRUM AND BEARINGS (FIG 13) - CONTINUED													
13	9		P	O		3110198--1468	CONE AND ROLLERS, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00593-3011 series (r, stght bore, normal angle, SI no 2 tol, 0.0250 corner rod, 3.5000 bore, 1.4300 lg) hub, inner (712286)	ea	4	*	*	5	5
13	10		P	O		3110-142-4390	CUP, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00592-1011 series (r, SI no 2 tol, 1/8 comer rad, 6.000 ad, 1.1875 lg) sub, inner) (706691)	ea	8	*	*	1.7	1.7
13	11		P	O	R	2530-740-9395	HUB: w/bearing CUP, assy (7409395)-----	ea	4	**	*	5	5
13	12		P	O		3110-100-0649	CONE, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00593-3011 series (r, stght bore, normal angle, SI no 2 tol, 9/64 corner rod, 3.3750 bore, 1.43000 lg) (iub, outer) (705155)	ea	4	*	*	4	
13	13					5310-353-2297	NUT, PLAIN, HEXAGON: adjusting, hub bearing, w/pin, assy (78500-A1 227S305)	ea	4	*	*	4	4
13	14		F	O		5310-700-7089	WASHER: hub bearing adjusting nut (7007089)---	ea	4	*	*	8	8
13	15		P	O		5310-353-2427	NUT, PLAIN, OCTAGON: adjusting, lock (7346885)	ea	4	*	*	4	4
13	16		P	O		2530-734-6993	GASKET: hub cap (7346993)-----	ea	4	*	*	1	1
13	17		P	O		2530-368-4952	CAP: hub (7979307) -	ea	4	*	*	3	3
13	18		P	O		5310-010-3323	WASHER, LOCK: split, med, S, plain fin., 1/2screw size (103323)	ea	40	*	*	8	8
13	19		P	O		5305-017-9885	SCREW, CAP, HEXAGON HEAD: med-carb-S, plain fin., 1/2-13UNC-2A x 1-1/2 (179885)	ea	40	*	*	8	8
13	20		C	O		5310-053-7805	NUT, SINGLE BALL SEAT, HEXAGON: S, cd- or zn-pltd, 1-1/8-16NF-2 (wheel stud, right, outer) (537805)	ea	20	*	*	2.1	2.1
13	20		C	O		5310-053-7808	NUT, SINGLE BALL SEAT, HEXAGON: S, ad, 1-1/8-17NF-2, ea lh (wheel stud, left, outer) (537808)	20	*	*	2.1	2.1	
13	21		P	O		2530-693-1028	NUT: cap, S, cd- or zn-pltd, 3/4-16NF-2 inner thd, 1-1/8 16NS-3, outer thd (wheel, right, Inner) (537809)	ea	20	*	*	2.1	2.1
13	21		P	O		2530-693-1029	NUT: cap, S, cd- or zn-pltd, 3/4-16NF-2 lh, inner thd, 1-1/8-16NS-3 lh thd (wheel, left, inner) (537810)	ea	20	*	*	2.1	2.1
13	22		P	O		5305-740-9555	BOLT, RIBBED SHOULDER: wheel, rh thd (7409555)	ea	20	*	*	2.1	2.1
13	22		P	O		5305-797-9320	BOLT, RIBBED SHOULDER: wheel, lh thread (7409554)	ea	20	*	*	2.1	2.1

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Service No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
AXLE AND AIR BRAKES -(M131)- CONTINUED													
AIR LINES, COUPLINGS, FITTINGS, AND VALVE (FIG 14)													
14	1		P	O		2530-797-9294	DUMMY COUPLING, AUTOMOTIVE AIR BRAKE HOSE: w/CHAIN, assy (23705-A297356) (See item 6, fig 18)	ea	2	*	*	4	4
14	2	5	P	O		4730-595-0083	COUPLING, HALF, QUICK DISCONNECT: air brake hose, assy (See item 1, Fig 18)	ea	2	*	*	3	3
14	3		P	O		4730-270-4616	ADAPTER, STRAIGHT, PIPE TO TUBE: br, 3/8-NPTF male pipe end, 3/8 od tube end, assy (504265)	ea	2	*	*	5	5
14	4	5	P	O		4730-278-3870	ELBOW, PIPE TO TUBE: compression, ball sleeve, air service, 90 deg, br, 3/8 tube, 3/8 male pipe end assy (air lines)	ea	2	*	*	3	3
14	5	10	P	O		5325-797-9287	GROMMET, RUBBER: reservoir to bracket (7979287)--	ea	4	*	5	5	
14	6		P	O		4730-2784593	CONNECTOR: tube, compression, br, 3/8 tube, 1/4 male pipe end, assy (504264)	ea	6	*	*	5	5
14	7		P	O	R	2530-797-9295	FILTER: air, assy (40342-N12696)(See fig 17for exploded view'	ea	2	*	*	2	2
14	8		P	O	R	2530-797-9039	CHAMBER: air, assy (7979039) (See fig 15 for exploded view)	ea	4	*	*	5	5
14	9	11	P	O			CLIP: closed, S, cd- or zn-pltd, 3/4 od tube, hole for 1/4 bolt (6Z1933-42-11)	ea	4	*	*	8	8
14	10		P	O		2530-797-9290	HOSE: brake chamber to relay valve, right, assy (7979290) (See item 10, Fig 16)	ea	2	*	*	5	5
14	11		P	O		2530-797-9291	LINE: chamber to relay valve, left, assy (7979291) (See item 11, Fig 16)	ea	2	*	*	5	
14	12		P			4730-0142435	INVERTED NUT, TUBE COUPLING: inverted flare, br, 1/2 od tube, 0.740 over-all (142435)	ea	2	*	*	3	3
14	13	5	P	O		4730-278-3869	ELBOW, PIPE TO TUBE: compression, ball sleeve, 90 deg, br, 3/8 tube, 1/4 male pipe end, assy NON-ILLUSTRATED ITEM	ea	3	*	*	3	3
		5	P	O		4527-080-0500	COUPUNG: pipe, MI, 1/2x3/8--	ea	2	*	*	5	5



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NON-SUPPLY ITEMS					
A - ELBOW	8330288	E - CLIP	120872	K - ELBOW	105423
B - LINE	8384464	F - LINE	8384466	L - RESERVOIR	7979298
C - COUPLING	8328769	G - FITTING	7979289	M - TUBE & FITTING ASSY	7979173
D - LINE	8384465	H - CONNECTOR	504395	N - TUBING	40342-17x265
		J - HOSE	40342-18x9002	P - LINE	8384467

FIGURE 14. AIR LINES, COUPLINGS, FITTINGS AND VALVES-SCHEMATIC DIAGRAM

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erabil- ity				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
15	1		P	F		2530-736-2426	<u>AXLE AND AIR BRAKES - (M131)- CONTINUED</u> <u>AIR CHAMBER ASSEMBLY (FIG 15)</u> (NOTE: SEE ITEM 8, FIG 14, PAGE 16) PARTS KIT, AIR BRAKE CHAMBER: REPAIR T'362426)-----	EA	≠			5	5
15	1.1						COMPOSED OF: 4 SCREW: (40342-N106280)						
15	1.2						1 DIAPHRAGM: (40342-N2318)						
15	1.3						1 SPRING: (40342-N1225A)						
15	1.4						1 SPRING: (40342-N12471)						
15	1.5						4 WASHER: (120214)						
15	1.6						4 NUT: (40342-N120368)						

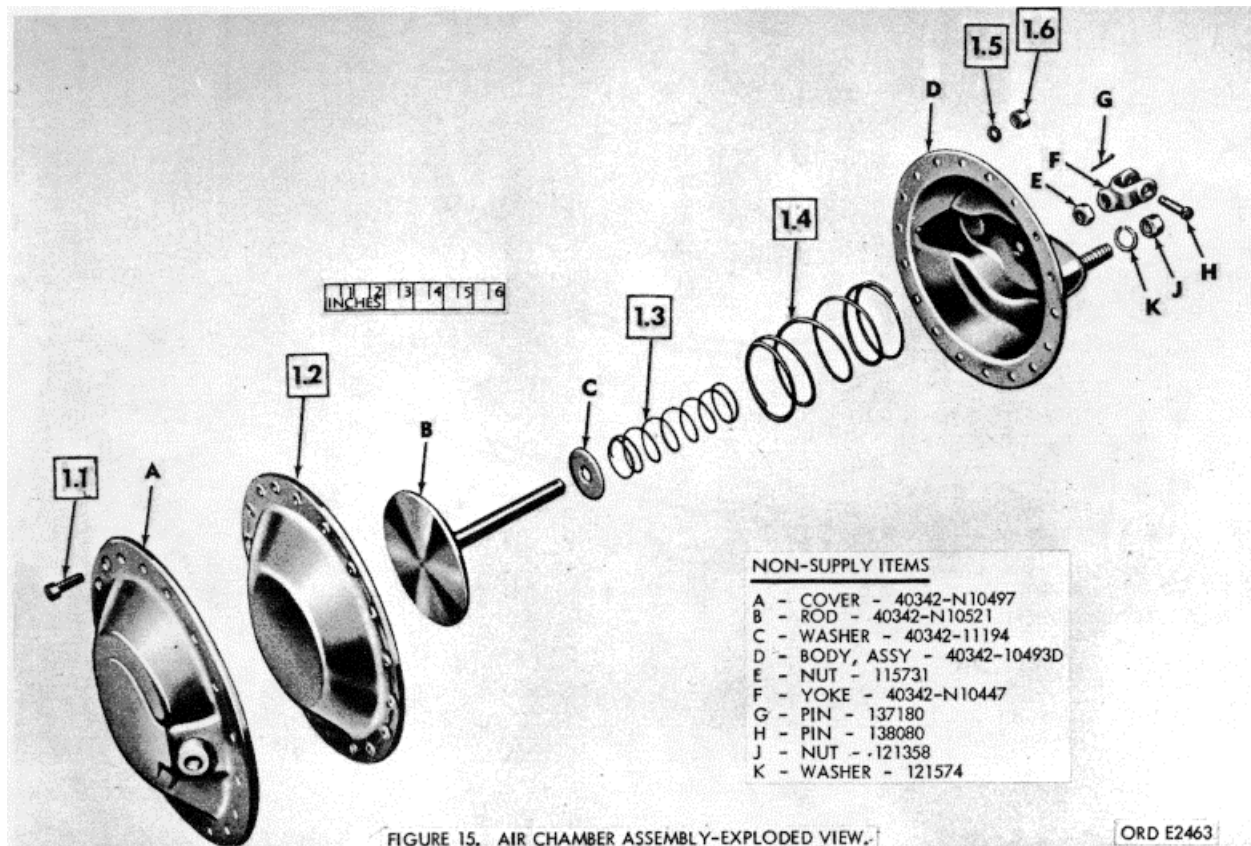


FIGURE 15. AIR CHAMBER ASSEMBLY-EXPLODED VIEW

NON-SUPPLY ITEMS

- | | |
|--------------------------------|------------------------------|
| A - PLUG - 103866 | L - SCREW - 123450 |
| B - RESERVOIR, ASSY - 7979298. | M - NUT - 120367 |
| C - SCREW - 121615 | N - WASHER - 121753 |
| D - WASHER - 103341 | P - ANGLE - 7979208 |
| E - NUT - 503351 | Q - ELBOW - 105423 |
| F - NUT - 142435 | R - CONNECTOR, ASSY - 504395 |
| G - TUBE AND FITTING - 7979173 | S - BODY - 504396 |
| H - FITTING - 7979289 | T - SLEEVE - 504398 |
| J - SCREW - 120647 | U - NUT - 504399 |
| K - WASHER - 103321 | V - SPRING - 504400 |

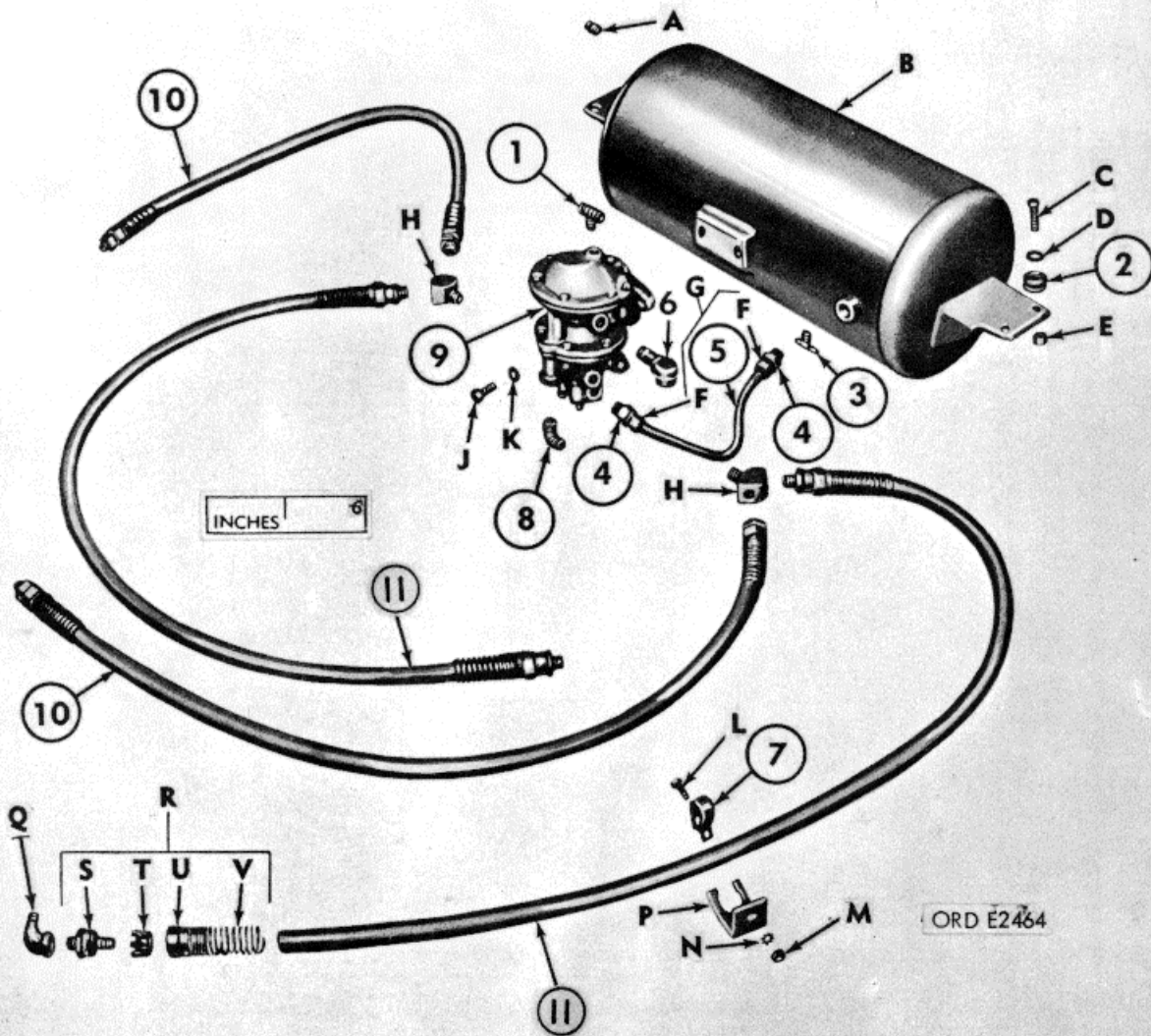


FIGURE 16. EMERGENCY RELIEF VALVE, AIR RESERVIOR, AIR HOSES AND FITTINGS

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>AXLE AND AIR BRAKES -(6131)- CONTINUED</u>													
<u>EMERGENCY RELAY VALVE, AIR RESERVOIR,</u>													
<u>AIR HOSES AND FITTINGS (FIG 16)</u>													
16	1	5	P	O		4730-278-3869	ELBOW, PIPE TO TUBE: 90 DEG, BR, 3/8 TUBE, 1/4 MALE PIPE END, ASSY	EA	3	*	*	3	3
16	2	10	P	O		5325-797-9287	GROMMET, RUBBER: RESERVOIR TO BRACKET 7979287)-----	EA	4	*	*	5	5
16	3	5	P	O		4820-276-9040	COCK, DRAIN: TEE-HDL, BR, 1/4 MALE PIPE END, TYPE C--	EA	1	*	*	3	3
16	4		P	O		4730-013-7409	CONNECTOR: FLARED TUBE, INVERTED, BR, 1/2 TUBE, 3/8 MALE PIPE END (137409)	EA	2	*	*	5	5
16	5		P	O		4710-277-5529	TUBE, COPPER: SEAMLESS, COLD DRAWN, SOFT ANLD, 1/2 OD, 0.035 WALL THK (1 FT) (80244-44-T-5080-30)	FT	\$	*	*		
16	6		P	O	R	2530-350-6749	VALVE: CHECK, EXHAUST, ASSY (40342-N11072)-	EA	1	*	5	5	
16	7	11	P	O			CLIP: CLOSED, 5, 3/4 AD TUBE, HOLE FOR 1/4 BOLT (6Z-1933-42-11)	EA	4	*	*	8	8
16	8	5	P	O		4730-278-3870	ELBOW, PIPE TO TUBE: BR, 90 DEG, 3/8 TUBE, 3/8 MALE PIPE END, ASSY	EA	2	*	*	3	3
16	9		P	O	R	2530-353-2055	VALVE: RELAY EMERGENCY ASSEMBLY (7979301)-----	EA	1	*	*	5	5
16	10						HOSE: BRAKE CHAMBER TO RELAY VALVE, RIGHT, ASSY (SEE ITEM 10, FIG 14, PAGE 16 FOR REQUISITIONING DATA)						
16	11						LINE: CHAMBER TO RELAY VALVE, LEFT, ASSY (SEE ITEM 11, FIG. 14, PAGE 16 FOR REQUISITIONING DATA)						
<u>NON-ILLUSTRATED ITEMS</u>													
			P	F		2530-741-5750	PARTS KIT, AIR BRAKE CHAMBER: EMERGENCY RELAY VALVE (40342-RN10K) COMPOSED OF: 1 DIAPHRAGM: (40342-N10941D) 1 DIAPHRAGM: (40342-N10941E) 2 GASKET: (40342-N10952A) 2 SEAL: (40342-N10919A) 1 SEAL: (40342-N10910B) 1 VALVE: (40342-N10149A)	EA	5	5			

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SLIP)	(d) 4th ECH (GEN SLIP)	
							<u>AXLE AND AIR BRAKES -(M131)- CONTINUED</u>						
							<u>AIR FILTER (FIG 17)</u>						
							(NOTE: SEE ITEM 7, FIG 14, PAGE 16)						
17	1		P	O		5310-012-0375	NUT, PLAIN, HEXAGON: S, 1/4-20UNC-2B, 7/16W, 7/32 THK (120375)	EA	4	*	*	5	5
17	2		P	O		5310-012-1753	WASHER, LOCK: EXT-TEETH, 5, 1/4 SCREW SIZE (121753)----	EA	4	*	*	5	5
17	3		P	O		2530-696-0351	KIT: REPAIR, AIR FILTER (40342-RN13A)----	EA	,	*	*	5	5
							COMPOSED OF:						
17	3.1						1 ELEMENT: (40342-NI2971)						
17	3.2						1 WASHER: (40342-4X509)						
17	3.3						1 SPRING: (40342-N12973)						
17	4	5	P	O		4730-278-3388	PLUG, PIPE: SQ-HD, S, 1/8 IN.---	EA	2	*	*	5	5
17	5		P	O		5306-797-9296	BOLT, "U": (7979296)-----	EA	2	*	*	3	3

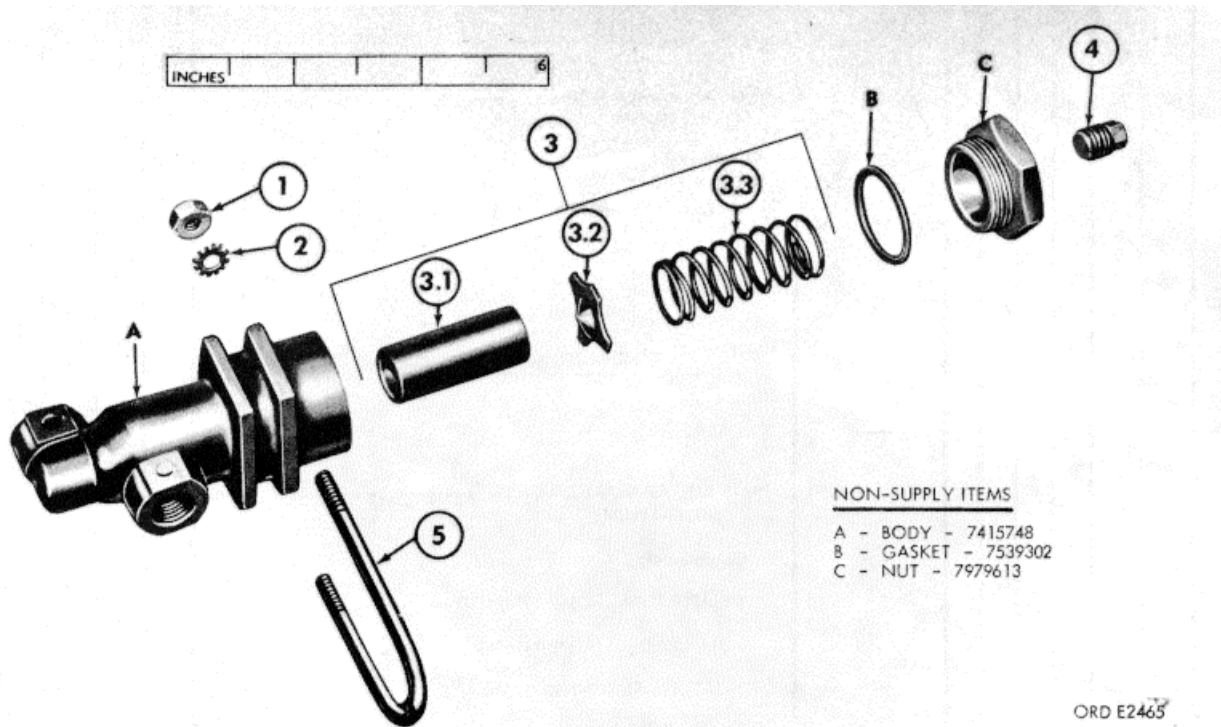


FIGURE 17. AIR FILTER-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SLIP)	(d) 4th ECH (GEN SLIP)	
18	1						<u>AXLE AND AIR BRAKES - (M131)- CONTINUED</u> <u>AIR HOSE COUPLING (FIG 18)</u> COUPLING HALF, QUICK BDISCONNECT: AIR BRAKE HOSE, ASSY (SEE ITEM 2, FIG 14 FOR REQUISITIONING DATA)						
18	2		P	O		4730-053-8826	RETAINER: AIR BRAKE HOSE COUPLING SPRING, S, 5/8-18NF-3 X 21/32 IG (538826)	EA	2	*	*	2	2
18	3		P	O		5340-597-0305	SPRING: AIR BRAKE HOSE COUPLING (538827)	-	EA	2	*	*	3
18	4		P			4730-334-7803	PLUNGER: AIR BRAKE HOSE COUPLING (538825)-----	-	EA	2	*	3	3
18	5		P	O		4730-334-7802	PACKING, PREFORMED: AIR BRAKE HOSE COUPLING (538824)---	EA	2	*	*	3	3
18	6						DUMMY COUPLING, AUTOMOTIVE AIR BRAKE HOSE: W/CHAIN, ASSY (23705-A297356) (SEE ITEM 1, FIG 14 FOR REQUISITIONING DATA)						

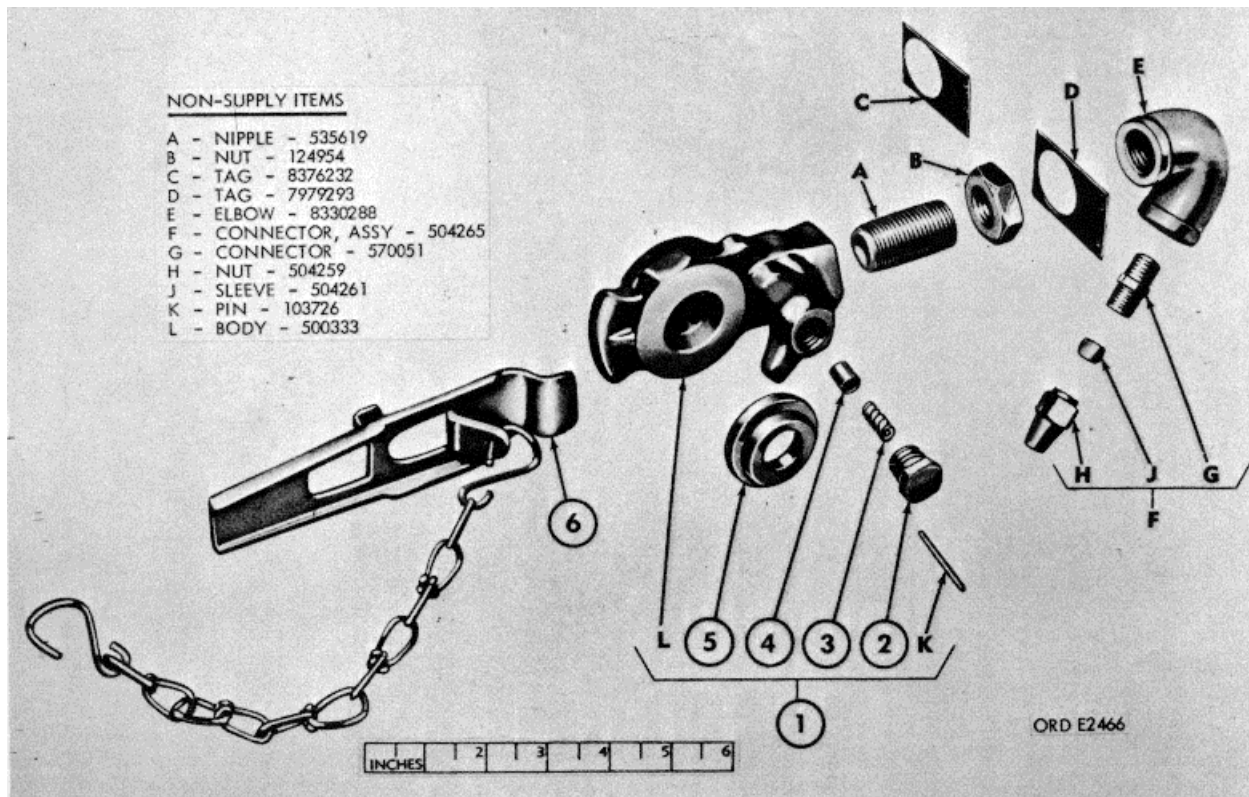


FIGURE 18. AIR HOSE COUPLINGS-EXPLODED VIEW.

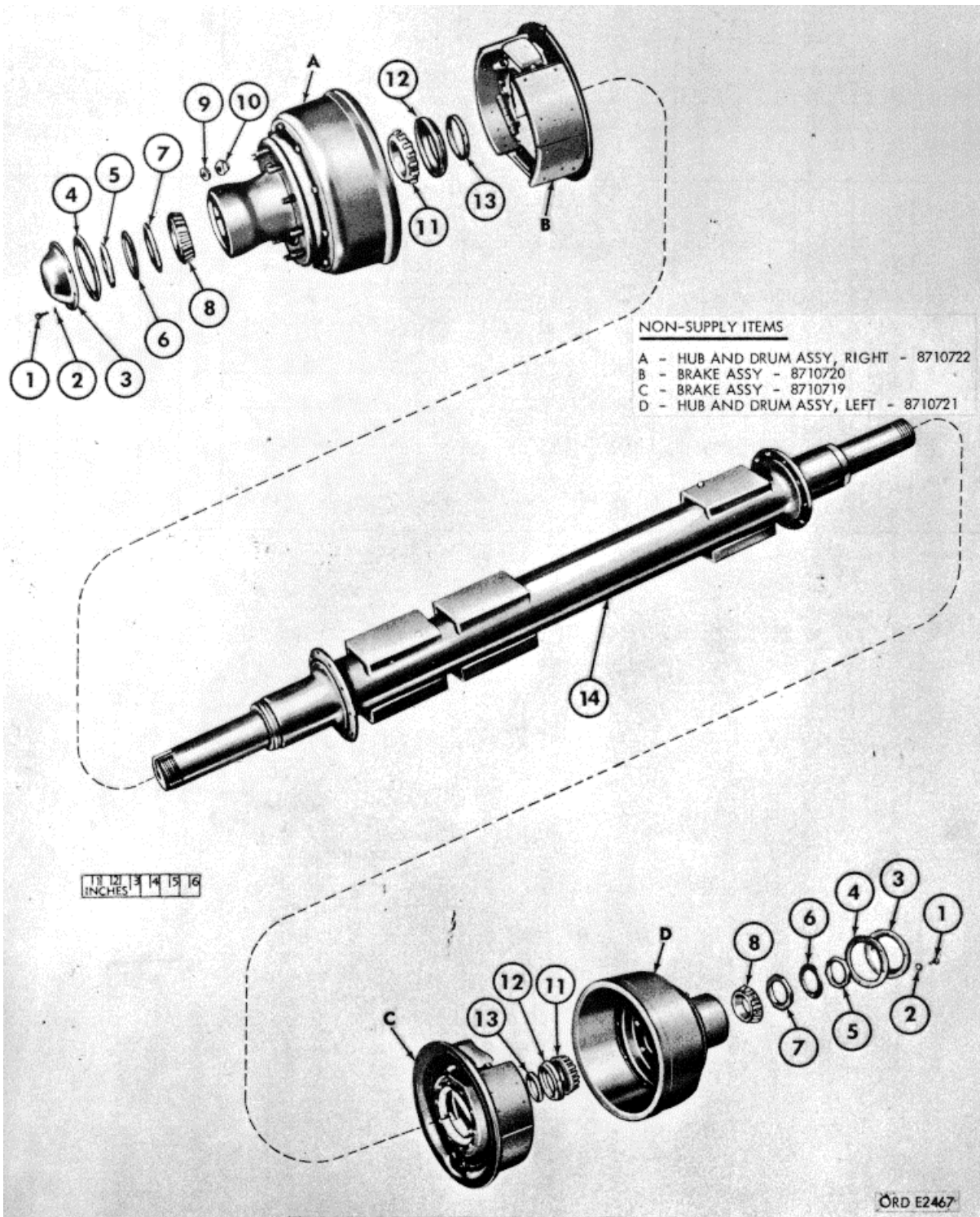


FIGURE 19. AXLE AND SERVICE BRAKE-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>AXLE AND AIR-HYDRAULIC BRAKES -(M131A1, M131A2)</u>													
<u>AXLE AND SERVICE BRAKE (FIG 19)</u>													
19	1		P	O		5306-012-0834	SCREW, CAP, HEXAGON HEAD: low-carb-S, 5/16-18UNC-2A x 1/2 (1 20834)	ea	24	*	*	1	1
19	2		P	O		5310-012-0214	WASHER, LOCK: split, 5/16 bolt size (120214)-----	ea	24	*	*	1	1
19	3		P	O		2530-287-8220	CAP: hub (8710725)-----	ea	4	*	*	3	3
19	4		P	O		5330-290-8521	GASKET: hub cap (8710726)-----	ea	4	*	*	1	1
19	5		P	O		5310-353-2427	NUT, PLAIN, OCTAGON: adjusting, lock (7346885) ---	ea	4	*	*	4	4
19	6		P	O		5310-700-7089	WASHER: hub bearing adjusting nut (7007089) _--	ea	4	*	*	8	8
19	7		P	O		5310-353-2297	NUT, PLAIN, HEXAGON: adjusting, hub bearing, w/pin, assy ('8500-A1227S305)	ea	4	*	*	4	4
19	8		P	O		3110-100-0649	CONE, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00593-3011 O(ub, outer) (705155)	ea	4	*	*	5	5
19	9		P	O		2530-693-1028	NUT: cap, S, 3/4-16NF-2 inner thd, 1-1/8-16NS-3 outer thd (wheel, right, inner) (537809)	ea	20	*	*	2.1	2.1
19	10		C	O		5310-053-7805	NUT, SINGLE BALL SEAT, HEXAGON: S, 1-1/8-16NF-2 (wheel, right, outer) (537805)	ea	20	*	*	2.1	2.1
19	11		P	O		3110-198-1468	CONE AND ROLLERS, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00593-3011 Olub, inner) (712286)	ea	4	*	*	5	5
19	12		P	O		2530-740-9550	SEAL, PLAIN, ENCASED: oil, hub bearing (78500-AI 205N664)	ea	4	*	*	2.5	2.5
19	13		P	O		2530-740-9553	WIPER: hub bearing oil seal (7409553)-e-----	ea	4	*	4	4	
19	14		X2	O	R	2530-797-9344	AXLE, VEHICULAR, NON-DRIVING: forward and rear, w/internal flange and spring seat adapter ('979344)	ea	2	*	*	*	*

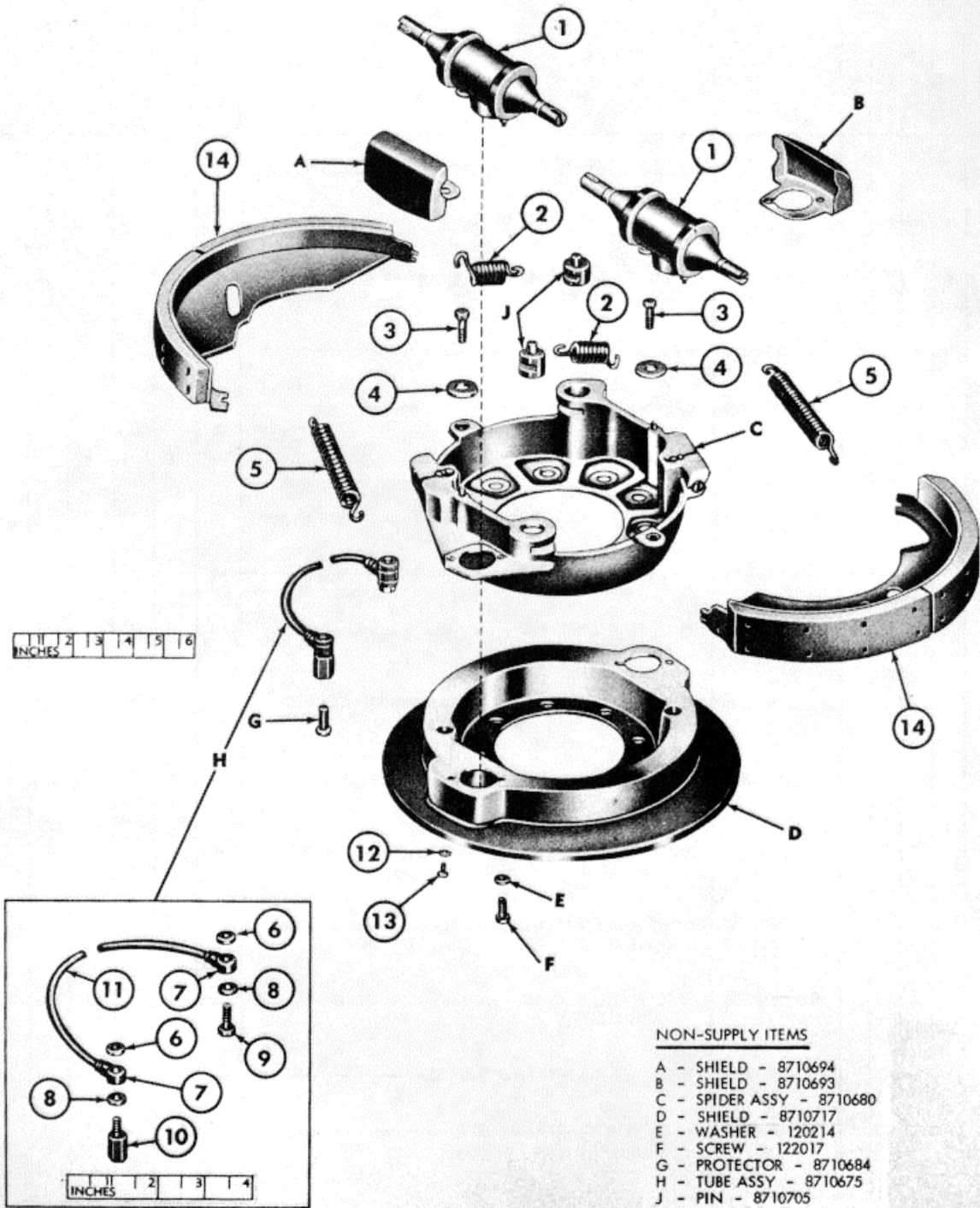


FIGURE 20. SERVICE BRAKE-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							AXLE AND AIR-HYDRAULIC BRAKES (M131A, M131/A2) - CONTINUED <u>SERVICE BRAKE</u> (FIG 20)						
20	11		P	O	R	2330-678-3332	CYLINDER ASSEMBLY, HYDRAULIC BRAKE WHEEL (8720473) (SEE FIG 25 FOR EXPLODED VIEW)	EA	8	*	*	1	1
20	2		P	0		5340-205-4654	SPRING, HELICAL, EXTENSION: RETURN SHOE (8710696)-----	EA	8	*	*	1.3	1.3
20	3		P	0		5306-297-8274	BOLT, SHOULDER: GUIDE, SHOE (8710683)-----	EA	8	*	*	1	1
20	4		P	0		5310-209-0041	WASHER, FLAT: SHOE GUIDE BOLT (8710685) ---	EA	8	*	*	1.3	1.3
20	5		P	0		5340-205-4657	SPRING, HELICAL, EXTENSION: RETURN, SHOE (8710697)-----	EA	8	*	*	1.3	1.3
20	6		C	0		5310-741-2088	WASHER: WHEEL CYLINDER INLET FITTING, INNER (7412088)-----	EA	8	*	*	4.2	4.2
20	7		P	O		4730-036-4421	CONNECTOR, MULTIPLE, FLUID PRESSURE LINE: WHEEL CYLINDER INLET (8332586)	EA	8	*	*	1.7	1.7
20	8		C	05310-274-4544			GASKET: WHEEL CYLINDER INLET FITTING, OUTER (5298653)-	EA	8	*	*	1	1
20	9		P	02530-741-2079			BOLT: WHEEL CYLINDER INLET FITTING (7412079)-	EA	8	*	*	1.7	1.7
20	10		P	04730-210-442			COUPLING: WHEEL CYLINDER TUBE, CONNECTION (8710709-	EA	4	*	*	8	8
20	11		P	02530-534-2847			TUBE ASSEMBLY, METAL, PREFORMED: UPPER AND LOWER WHEEL CYLINDER (8710676)	EA	4	*	*	2	2
20	12		P	05310-012-0214			WASHER, LOCK: SPLIT, S, 5/16 BOLT SIZE (120214)	EA	16	*	*	2	2
20	13		P	05306-012-2017			BOLT, MACHINE: HEX-HD, S, 5/16-18UNF-2A X 1 (122017)--	EA	16	*	*	2	2
20	14		P	02530-318-1225			BRAKE SHOE, INTERNALLY ACTUATED: W/LINING, ASSY (8710715)	EA	8	*	1	1	
							NON-ILLUSTRATED ITEMS						
			P	O		2530-091-9777	SCREW: ADJUSTING, SHOE (8710708)	EA	8	*	*	1.3	1.3
			P	F		2530-693-0996	LINING: REPLACEMENT (8720226)	EA	5	5			
							COMPOSED OF:						
							8 UNING: (8710716)						
							64 RIVET: (8710699)						

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a)	(b)	(c)	(d)	
									CO OR BRTY	SEP CO SEP BN OR REGT	3rd ECH (DIR SUP)	4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES</u>						
							<u>(M131A1, M131A2) - CONTINUED</u>						
							<u>BRAKE SPIDER WITH GEAR ASSEMBLY (FIG 21)</u>						
21	1		P	0		5340-205-5105	RING, RETAINING: SHOE ADJUSTING WORM (8710672)-----	EA	8	*	*	1	1
21	2		P	0		2530-091-9775	WASHER: SHOE ADJUSTING WORM (8710673)-----	EA	8	*	*	1.3	1.3
21	3		P	0		2520-287-8215	GEAR, WORM: ADJUSTING SHOE (8710695)	EA	8	*	*	1	1
21	4		P	0		2530-091-9774	SLEEVE: SHOE ADJUSTING WORM (8710671)-----	EA	8	*	*	1	1
21	5		P	0		2530-091-9776	STUD: ADJUSTING, SHOE (8710692)----	EA	48	*	*	1.3	1.3

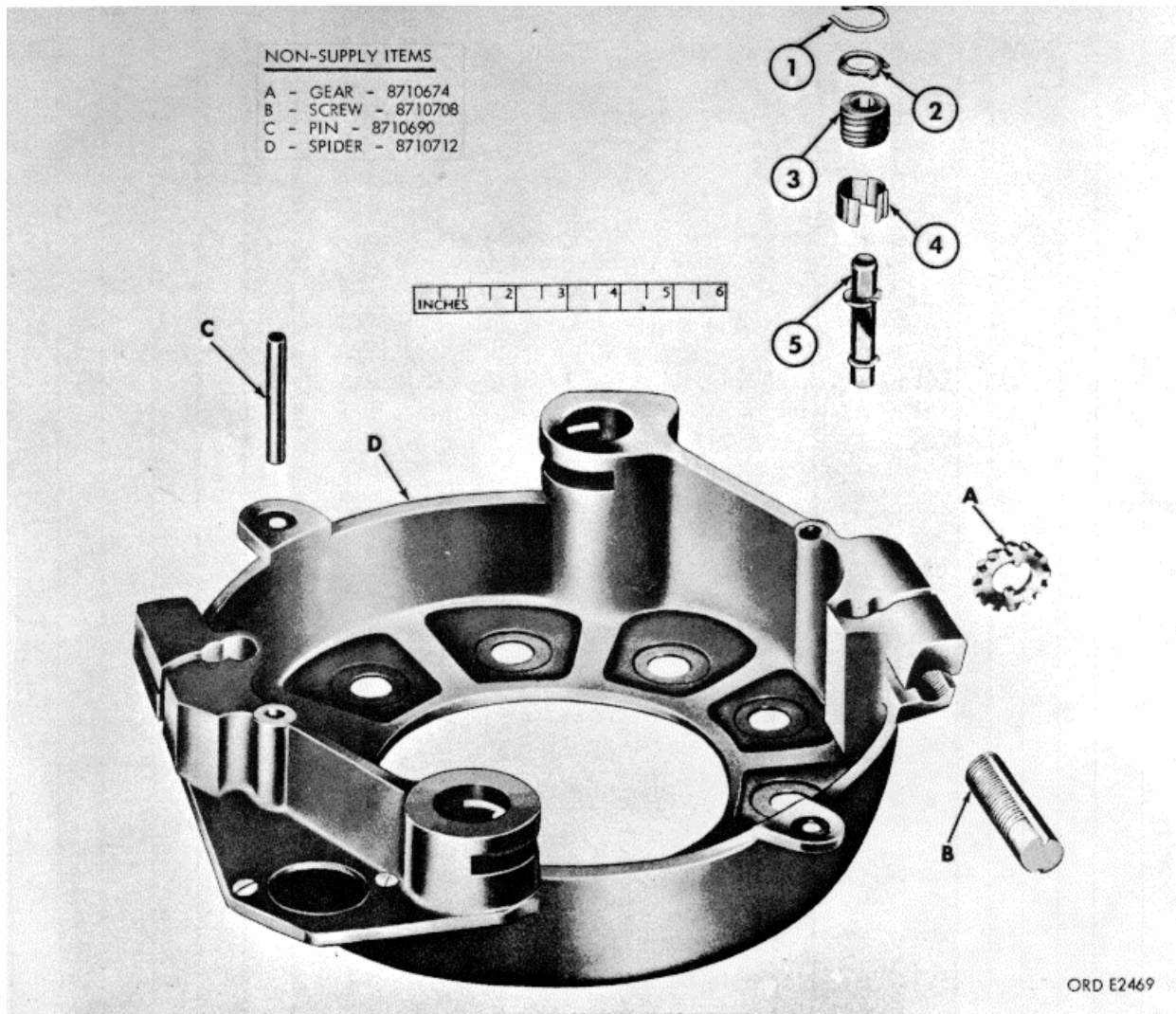


FIGURE 21. BRAKE SPIDER WITH GEAR ASSEMBLY.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES</u> <u>A131A1, M131A2)- CONTINUED</u> <u>HUB AND DRUM ASSEMBLY (FIG 22)</u>						
22	1		P	0	R	2(-1-9773	HUB: WEARLNG CUP, ASSY (8333869)	EA	4	*	*	2	2
22	2		P	0		3110-142-4390	CUP, TAPERED ROLLER BEARING: MIL-STD-CODE711-00592-1011 LOUB, INNER) (706691)	EA	8	*	*	1.7	1.7
22	3		P	0	S	2530-740-9394	BRAKE DRUM: 78500-3219X2052)	EA	4	*	*	3	3
22	4		P	0		5305740-9389	BOLT, RIBBED SHOULDER: S, 7/16-20NF-3 X 1-1/2 (7409389)	EA	40	*	*	3.4	3.4
22	5		P	0		5310-010-3322	WASHER, LOCK: SPLIT, 5, 7/16 SCREW SIZE (103322)--	EA	20	*	*	3.4	3.4
22	6		P	0		5310-2839	NUT, PLAIN, HEXAGON: S, 7/16-28, 11/16W, 3/8THK (271505)	EA	40	*	*	3.4	3.4

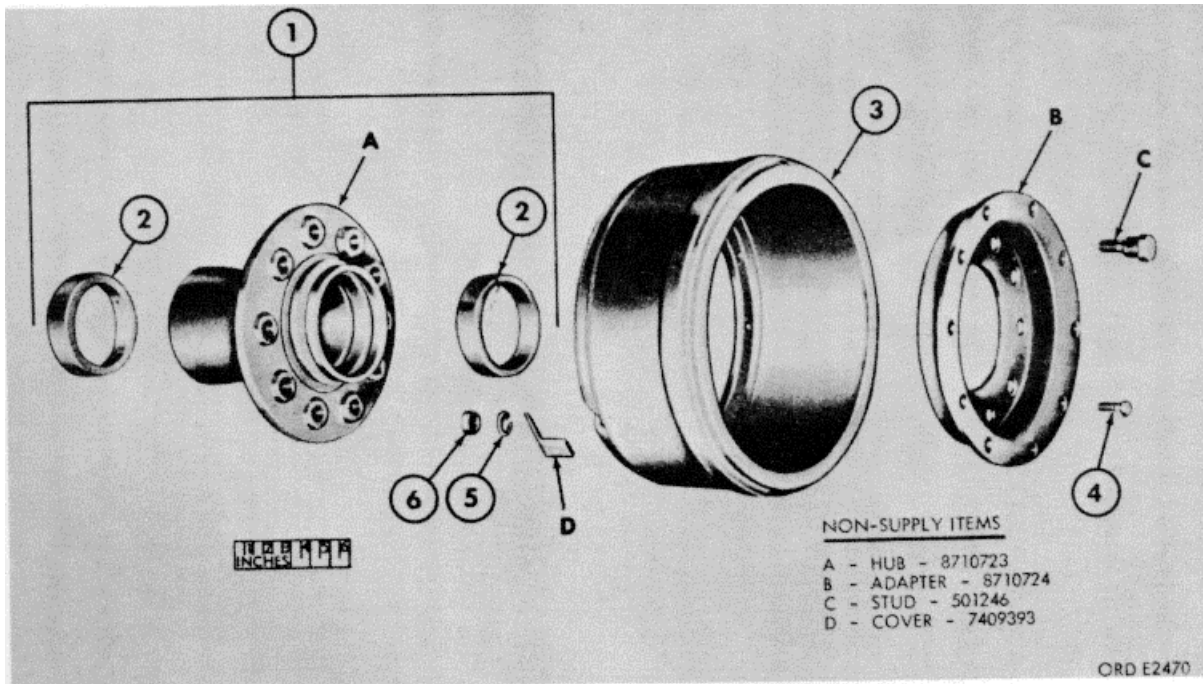
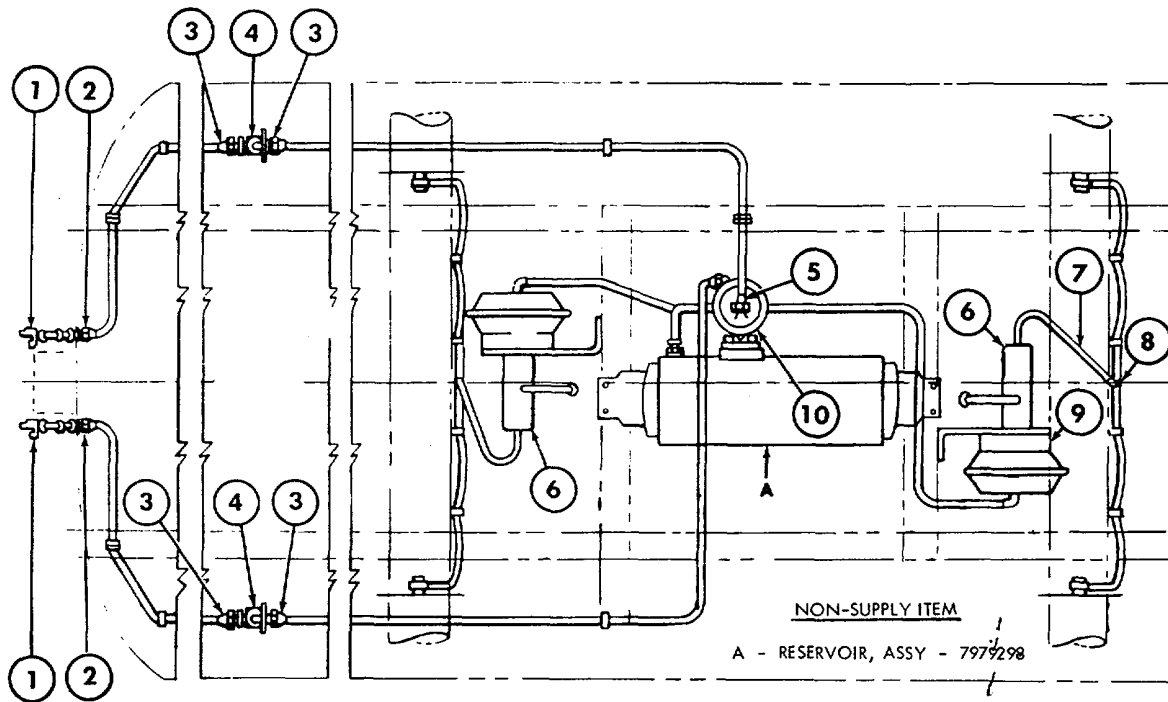


FIGURE 22. HUB AND DRUM ASSEMBLY-EXPLODED VIEW.

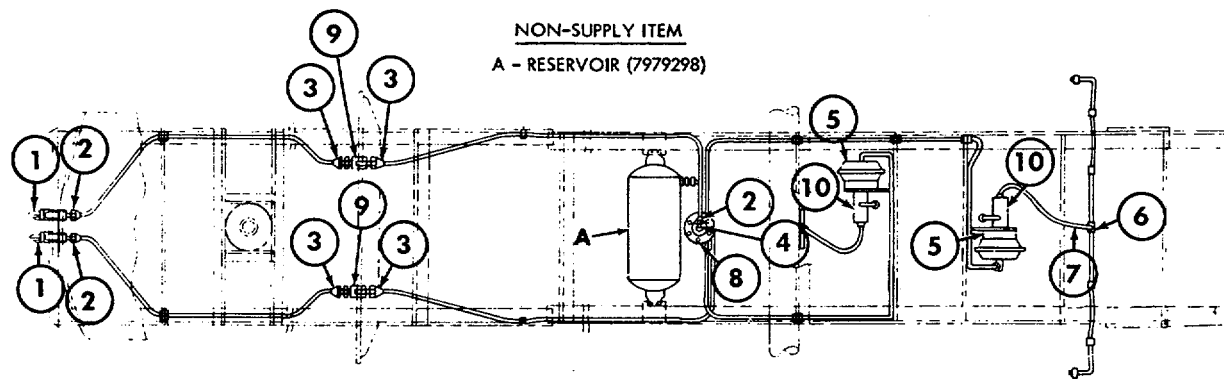
(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS						
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)			
							AXLE AND AIR-HYDRAULIC BRAKES (M131A1 M131A2)- CONTINUED AIR-HYDRAULIC LINES, COUPLINGS, FITTINGS, AND VALVES (M131A1) (FIG 23)									
23	1	5	P	O		4730-595-0083	COUPLING HALF, QUICK DISCONNECT: AIR BRAKE HOSE, ASSY (SEE ITEM 1, FIG 29)	EA	2	*	*	3	3			
23	2		P	O		4730-270-4616	ADAPTER, STRAIGHT, PIPE TO TUBE: (504205)	EA	2	*	*	5	5			
23	3		P	O		4730-278-4593	CONNECTOR: TUBE, BR, 3/8 TUBE, ASSY (504264)	EA	6	*	*	5	5			
23	4		P	O	R	2530-797-9295	FILTER: AIR, ASSY (SEE FIG 28 FOR EXPLODED VIEW)----	EA	2	*	*	2	2			
23	5	5	P	O		4730-271-3869	ELBOW, PIPE TO TUBE: BR, 90 DEG, 3/8 TUBE, ASSY-----	EA	3	*	*	3	3			
23	6		P	O	R	2530-278-2243	CYLINDER ASSEMBLY, HYDRAULIC: MASTER (8332086) (SEE FIG 26 FOR EXPI VIEW)	EA	2	*	*	4	4			
23	7		P	O		2530-740-9331	HOSE: MASTER CYLINDER TO HYD LINE TEE (7409331)	EA	2	*	*	8	8			
23	8		P	O		4730-737-3252	CONNECTOR, MULTIPLE, FLUID PRESSURE LINE: HYD (7373252)	EA	2	*	*	4	4			
23	9		P	O	R	2530-562-8816	CHAMBER: AIR HYD, ASSY (8735773) (SEE FIG 27 FOR EXPL VIEW)	EA	2	*	*	4	4			
23	10		P	O	R	2530-028-2600	VALVE: RELAY, EMERGENCY, ASSY (8330051)	EA	1	*	*	5	5			
		5	P	O		4527-080-0500	NON-ILLUSTRATED ITEMS									
		5	P	O		4730-278-3870	COUPLING: PIPE, REDUCING, MI, GLVD, RH, 1/2 X 3/8	- EA	2	*	*	5	5			
							ELBOW, PIPE TO TUBE: 90 DEG, 3/8 TUBE, 3/8 MALE PIPE END, ASSY (AIR LINES)	EA	2	*	*	3	3			
		5	P	O		4730-100-0001	ELBOW, PIPE TO TUBE: BR, 90 DEG, 3/8 TUBE, 1/4NPTF MALE PIPE END (RELAY VALVE TO AIR LINE)	EA	3	*	*	3	3			
			P	F		2530-741-5750	PARTS KIT, AIR BRAKE CHAMBER: EMERGENCY RELAY VALVE (40342-RN 10K)	EA				5	5			
							COMPOSED OF: 1 DIAPHRAGM: (40342-N10941D) 1 DIAPHRAGM: (40342-N10941E) 2 GASKET: (40342-N10952A) 2 SEAL: (40342-N10919A) 1 SEAL: (40342-N10910B) 1 VALVE: (40342-N10149A)									



ORD E2471

FIGURE 23. AIR-HYDRAULIC LINES, COUPLINGS, FITTINGS, AND VALVES-M131A1. SCHEMATIC DIAGRAM.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
24!	1	5	P	0		4730-595-0083	AXLE AND AIR-HYDRAULIC BRAKES - (M131A1, M131A2)- CONTINUED AIR-HYDRAULIC LINES, COUPLINGS, FITTINGS AND VALVES (M131A2) (FIG 24) COUPLING, HALF, QUICK DISCONNECT: air brake hose, assy (see item 1, fig 29)	ea	2	*	*	3	3
24	2		P		O	4730-270-4616	ADAPTER, STRAIGHT, PIPE TO TUBE: br, 3/8-NPTF male pipe end, 3/8 od tube end, assy (504265)	ea	2	*	5	5	
24	3		P		O	4730-278-4593	CONNECTOR: tube, compression, br, 3/8 tube, 1/4 male pipe end, assy (504264)	ea	6	*	*	5	5
24	4	5	P		O	4730-278-3869	ELBOW, PIPE TO TUBE: br, 90 deg, 3/8 tube, 1/4 male pipe end, assy	ea	3	*	*	3	3
24	5		P	O	R	2530-562-8816	CHAMBER: air-hydraulic, assy (8735773) (see fig 27 for exploded view)	ea	2	*	4	4	
24	6		P		O	4730-737-3252	CONNECTOR, MULTIPLE, FLUID PRESSURE LINE: hydraulic (7373252)	ea	2	*	*	4	4
24	7		P		O	2530-740-9331	HOSE: master cylinder to hydraulic line tee (7409331) -----	EA	2	*	8	8	
24	8		P	O	R	2530-028-2600	VALVE: relay, emergency assy (8330051) -----	ea	1	*	5	5	
24	9		P	O	R	2530-797-9295	FILTER: air, assy (40342-N12969) (see fig 28 for exploded view)	ea	2	*	2	2	
24	10		P	O	R	2530-278-2243	CYLINDER ASSEMBLY, HYDRAULIC: master (8332086) (see fig 26 for exploded view)	ea	2	*	4	4	
		5	P	O		4527-080-0500	NON-ILLUSTRATED ITEMS						
		5	P	O		4730-278-3870	COUPLING: pipe, MI, glvd, rh, 1/2 x 3/8 -----	ea	2	*	*	5	5
			P			4730-100-0001	ELBOW, PIPE TO TUBE: 90 deg, br, 3/8 tube, 3/8 mole pipe end, assy (air lines)	ea	2	*	*	3	3
			P	0		4730-100-0001	ELBOW, PIPE TO TUBE: br, 90 deg, 3/8 tube, 1/4NPTF male pipe end	ea	3	*	*	3	3
			P	F		2530-741-5750	PARTS KIT, AIR BRAKE CHAMBER: emergency relay valve ----	ea	\$		5	5	
							Composed of:						
							1 DIAPHRAGM: (40342-N10941D)						
							1 DIAPHRAGM: (40342-N10941E)						
							2 GASKET: (40342-N10952A)						
							2 SEAL: (40342-N10919A)						
							1 SEAL: (40342-N10910B)						
							1 VALVE: (40342-N10149A)						



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FIGURE 24. AIR-HYDRAULIC LINES, COUPLINGS, FITTINGS, AND VALVES-M131A2-SCHEMATIC DIAGRAM.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a)	(b)	(c)	(d)	
									CO OR BRTY	SEP CO SEP BN OR REGT	3rd ECH (DIR SUP)	4th ECH (GEN SUP)	
25	1		P	O		2530-737-3260	<u>AXLE AND AIR-HYDRAULIC BRAKES-</u> <u>(M131A1 M131A21- CONTINUED</u> <u>HYDRAULIC BRAKE WHEEL CYLINDER (FIG 25)</u> (NOTE: SEE ITEM 1, FIG 20, PAGE 24) BLEEDER VALVE, HYDRAULIC BRAKE: (7373260) -----	EA	8	*	*	8	8
25	2		P	F		2530-678-3331	PARTS KIT, HYDRAULIC BRAKE CYLINDER ASSEMBLY: (5702385) COMPOSED OF: 2 BOOT: (8720483) 2 CUP: (8720481) <u>HYDRAULIC TUBES AND FITTINGS</u> <u>NON-ILLUSTRATED</u>	EA	8	1	1		
25	2.1												
25	2.2												
			P	O		5310-275-6635	GASKET: WHEEL CYLINDER INLET FITTING, INNER (5214539)----	EA	8	*	1	1	
			P	O		5305-226-9093	SCREW: TEE, HYDRAULIC LINE TO AXLE (96906-35290-58)-----	EA	2	*	3	3	
			P	O		2530-534-2349	TUBE, ASSEMBLY, METAL, PREFORMED: TEE TO LEFT WHEEL CYLINDER (8730441)	EA 2	*	2	2		
			P	O		2530-534-2350	TUBE, ASSEMBLY, METAL, PREFORMED: TEE TO RIGHT WHEEL CYLINDER (8730440)	EA	2	*	2	2	
			P	O		5330-521-4930	WASHER, FLAT WHEEL CYLINDER INLET FITTING(COPPER) (5214930)	EA	4	*	*	2.1	2.1

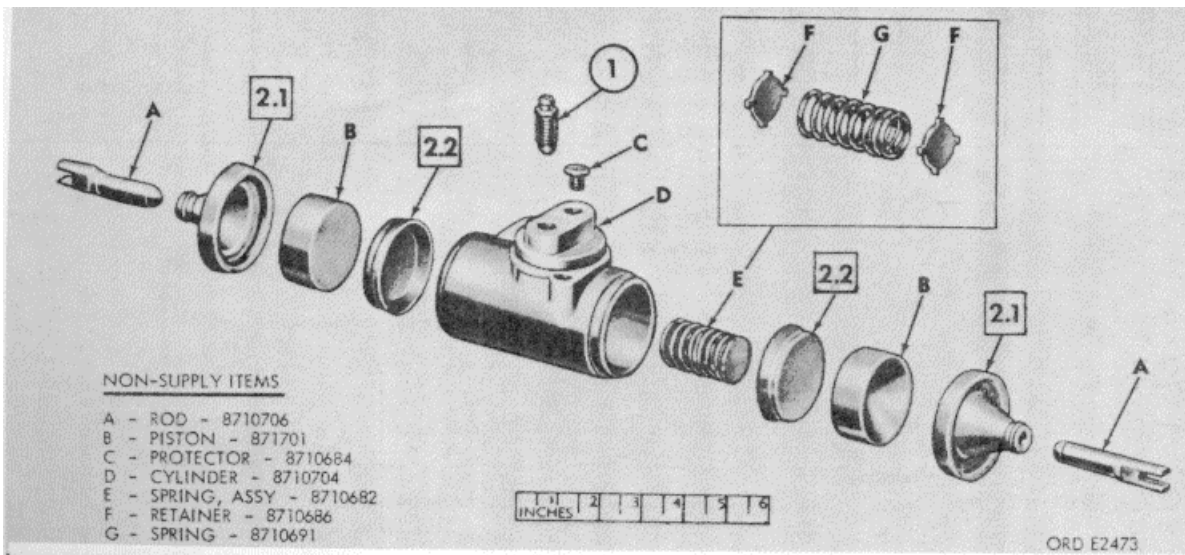


FIGURE 25. HYDRAULIC BRAKE WHEEL CYLINDER-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
26	1		P	F		2530-040-2877	<u>AXLE AND AIR-HYDRAULIC BRAKES -</u> <u>(M131A1, M131A2)- CONTINUED</u> <u>HYDRAULIC BRAKE MASTER CYLINDER (FIG 26)</u> (NOTE: SEE ITEM 6, FIG 23, PAGE 28 SEE ITEM 10, FIG 24, PAGE 29) PARTS KIT, HYDRAULIC BRAKE MASTER CYLINDER ASSEMBLY: REPAIR (8332646) COMPOSED OF: 1 BOOT: (63477-FC12235) 1 RING: (63477-FC1330) 1 PISTON: (63477-FC1338) 1 CUP: (63477-FC962)	EA	5	5			
26	2		C	O		5330-737-3354	GASKET: FILLER CAP (7373354) -----	EA	2	*	*	2.1	2.1
26	3		P	O		4730-535-1995	PLUG, MACHINE THREAD: DRAIN (8741419) -----	EA	1	*	*	2	2
26	4		P	O		5310-361-7052	WASHER, FLAT: HYDRAULIC HOSE FITTING (5156636) -----	EA	2	*	*	1	1

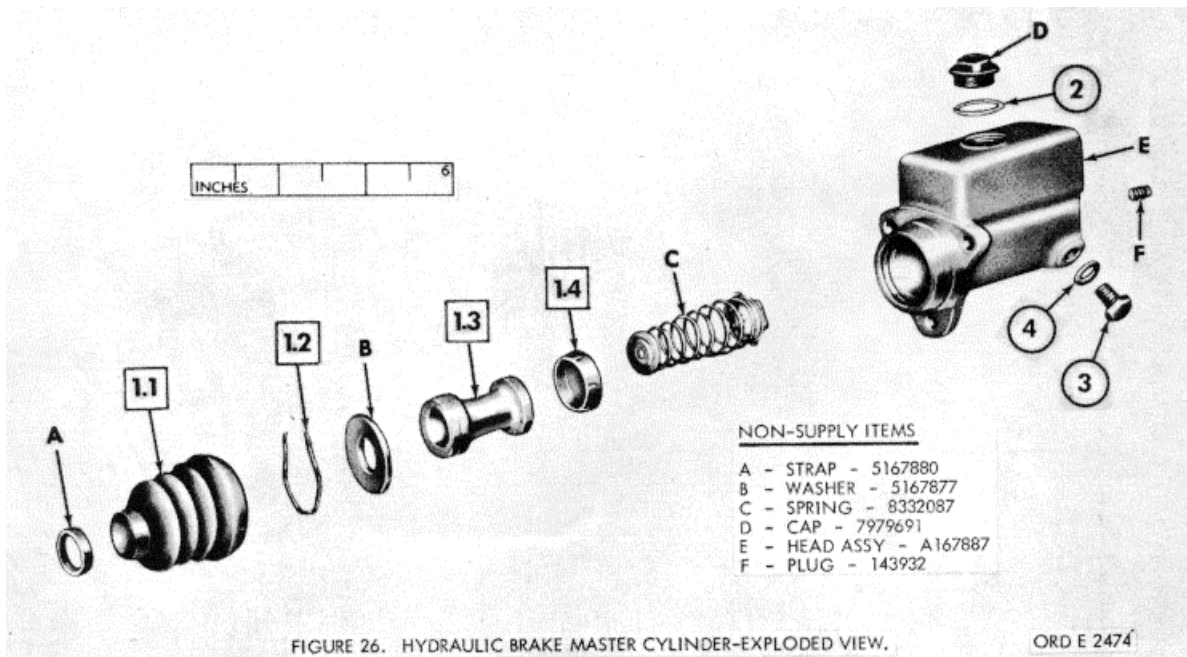


FIGURE 26. HYDRAULIC BRAKE MASTER CYLINDER-EXPLODED VIEW

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(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SLIP)	(d) 4th ECH (GEN SLIP)	
27	1 1.1 1.2 1.3 1.4 1.5 1.6	P	F			2530-040-2874	(MI31A1 M131A2)- CONTINUED AIR CHAMBER (FIG 27). (NOTE: SEE ITEM 9, FIGURE 23, PAGE 28 AND ITEM 5, FIGURE 24, PAGE 29) KIT: REPAIR, AIR CHAMBER (8332543) ----- COMPOSED OF: 1 DIAPHRAGM: (40342-N2417) 1 SPRING: (40342-N10673A) 1 SEAL: RING (40342-N11728C) 4 WASHER: LOCK (40342-4X13) 4 NUT: (40342-2X30) 4 SCREW: (40342-4X13)	EA				.5	.5

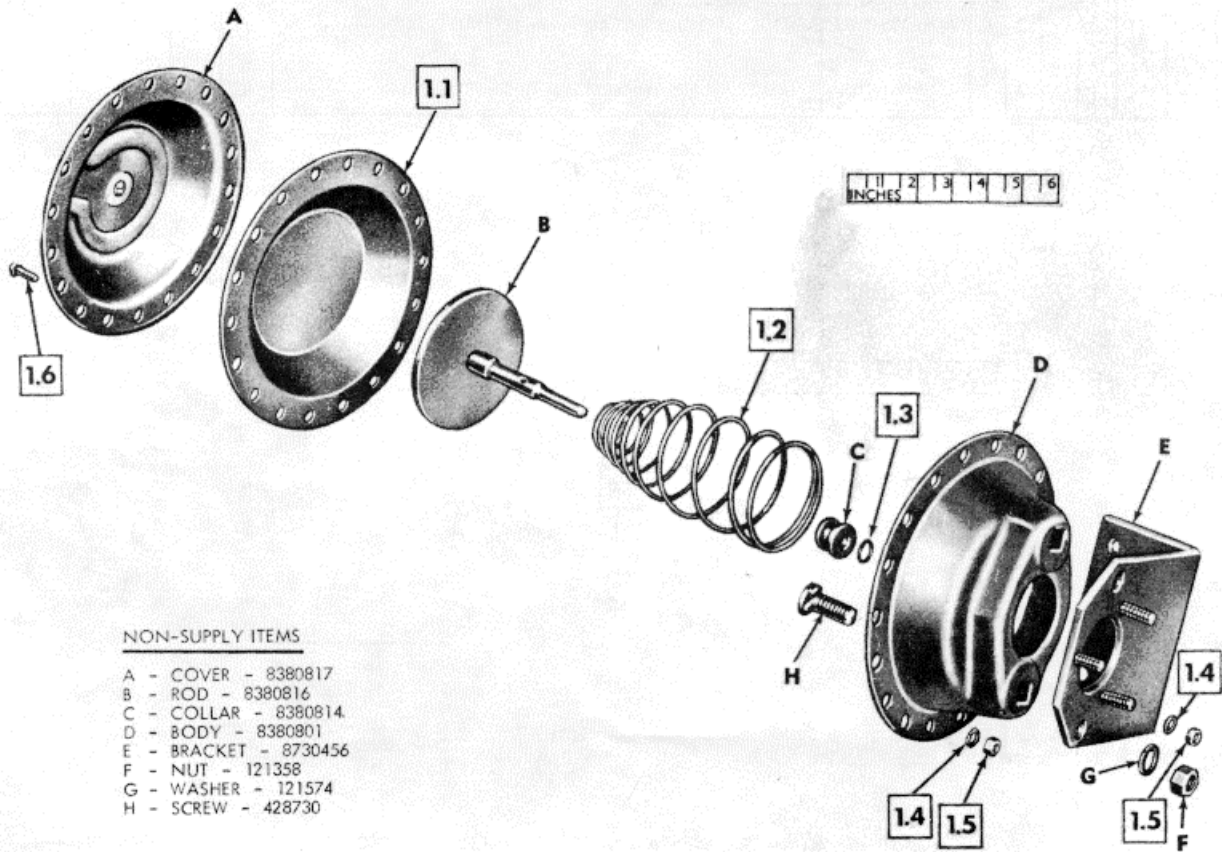


FIGURE 27. AIR CHAMBER-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AXLE AND AIR-HYDRAULIC BRAKES-</u> <u>(M131A1, M131A2)- Continued</u>						
							<u>AIR FILTER (Fig. 28)</u>						
							(Note: See item 4, fig. 23, page 28; and item 9, fig. 24, page 29)						
28	1		P	0		5310-012-0375	NUT, PLAIN, HEXAGON: S, 1/4-20UNC-2B, 7/16W, 7/32 THK (120375)	ea	4	*	*	.5	.5
28	2		P	0		5310-012-1753	WASHER, LOCK: EXT-TEETH, 5, 1/4 SCREW SIZE (121753)-----	ea	4	*	*	.5	.5
28	3		P	0		2530-696-0351	KIT: REPAIR, AIR FILTER (40342-RN13A) - -----	ea	≠	*	*	5	5
							COMPOSED OF:						
							1 ELEMENT: (40342-N12971)						
							1 WASHER: (40342-4X509)						
							1 SPRING: (40342-N12973)						
28	4	5	P	0		4730-278-3388	PLUG, PIPE: SQ-HD, S, 1/8 IN-----	ea	2	*	*	.5	.5
28	5		P	0		5306-797-9296	BOLT, "U" (7979296)-----	ea	2	*	*	.3	.3

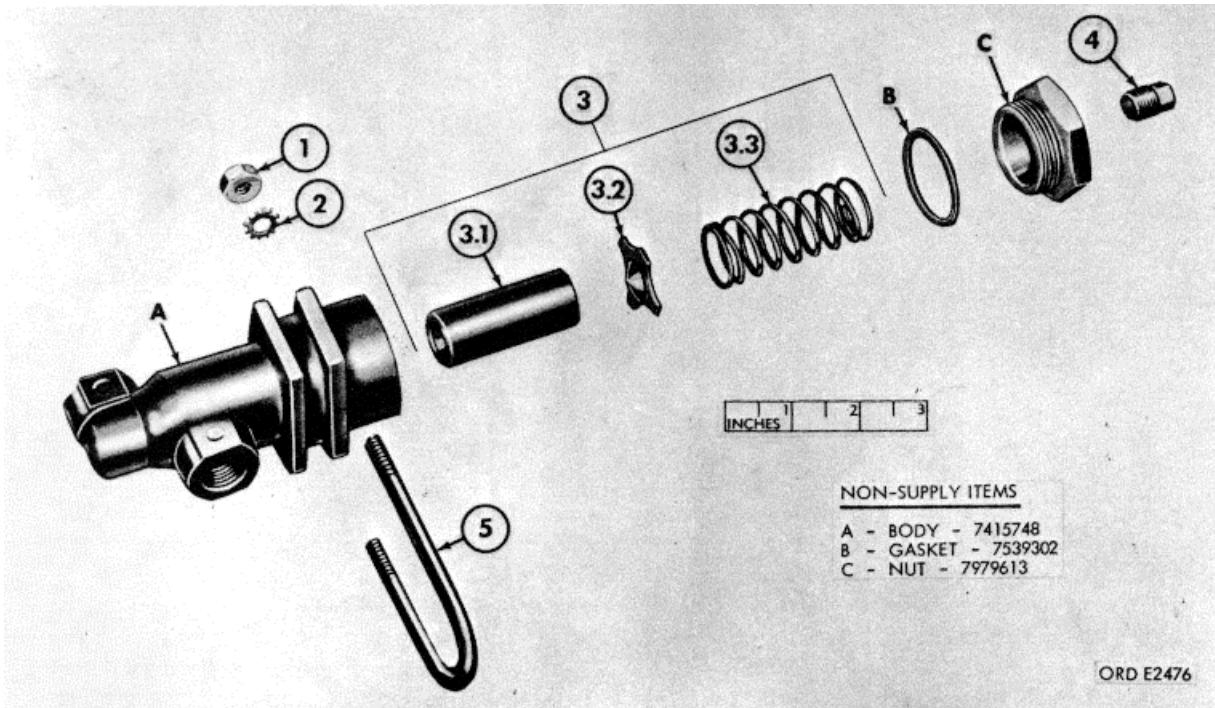


FIGURE 28. AIR FILTER-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Technical Service No.	(b) Source	(c) Maintenance-Level	(d) Recoverability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
29	1						<u>AXLE AND AIR-HYDRAULIC BRAKES-</u> <u>(M131A1 M131A2% Continued)</u> <u>AIR HOSE COUPLING (Fig.29)</u> COUPLING HALF, QUICK DISCONNECT: air brake hose, assy (See item 1, fig. 23 and Item 1, fig. 24 for requisitioning data)						
29	2		P	O		4730-053-8826	RETAINER: air brake hose coupling spring, S, cd-pltd, 5/8-18NF-3 x 21/32 lg (538826)	ea	2	*	*	.2	.2
29	3		P	O		5340-597-0305	SPRING: air brake hose coupling (538827)	ea	2	*	*	.3	.3
29	4		P	O		4730-334-7803	PLUNGER: air brake hose coupling (538825)	ea	2	*	*	.3	.3
29	5		P	O		4730-334-7802	PACKING, PREFORMED: air brake hose coupling (538824)	ea	2	*	*	.3	.3
29	6		P	O	02530-797-9294		DUMMY COUPLING, AUTOMOTIVE AIR BRAKE HOSE: w/ CHAIN, assy (23705-A297356)	ea	2	*	*	.3	.3

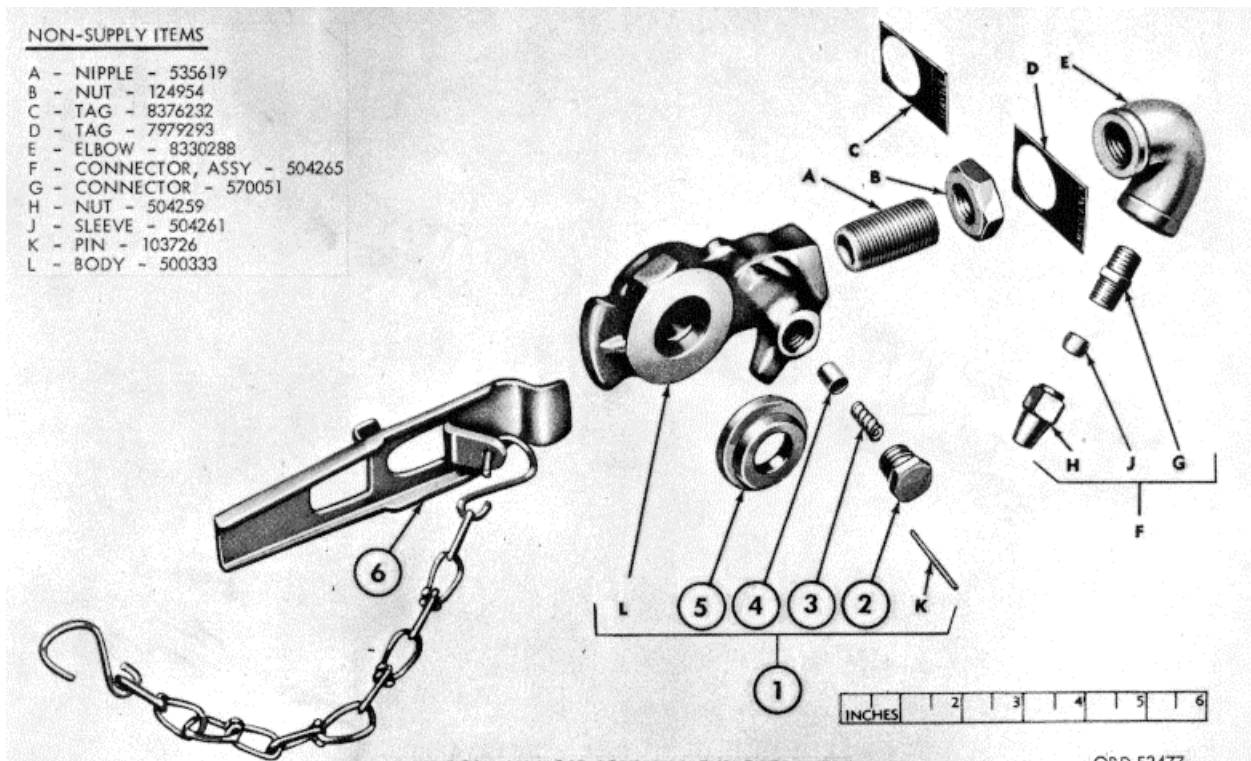
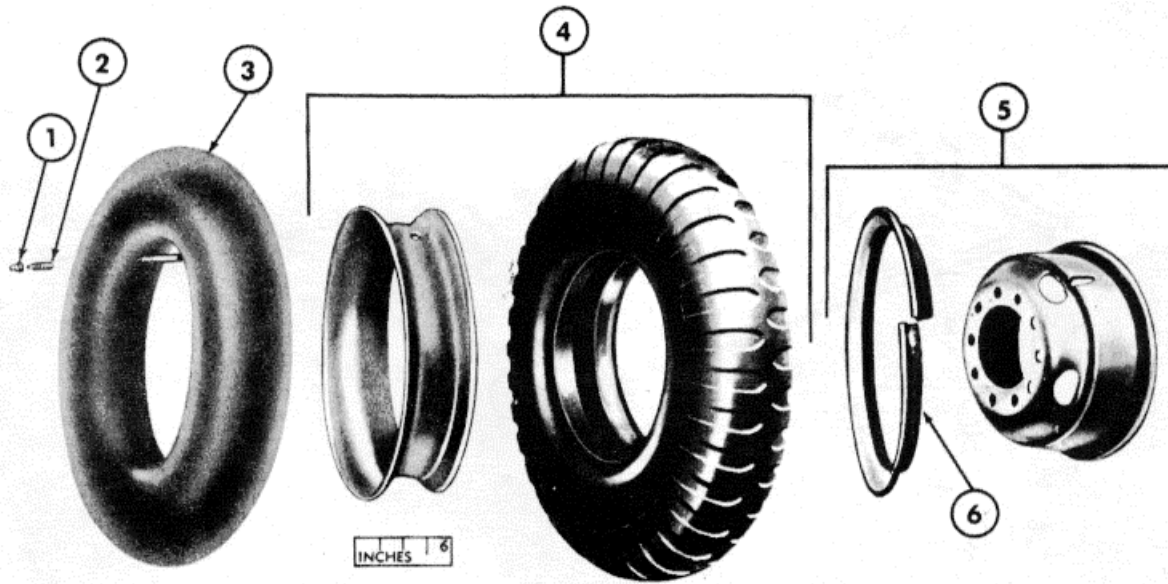


FIGURE 29. AIR HOSE COUPLING-EXPLODED VIEW.

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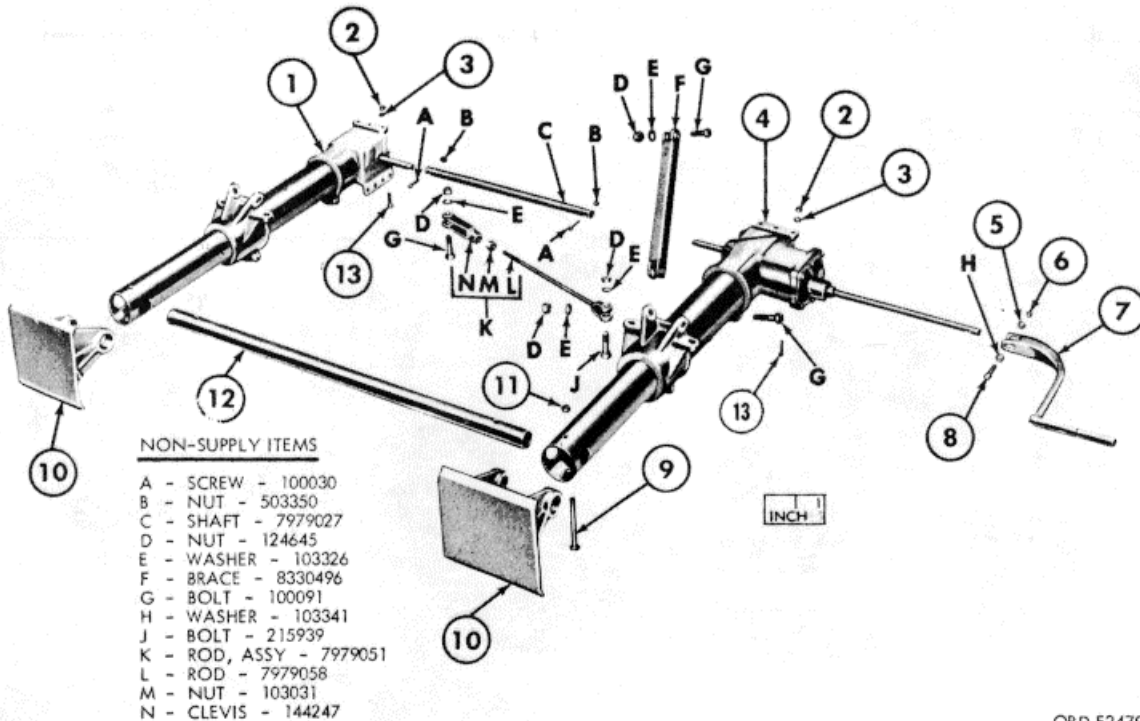
(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>WHEELS</u>						
							<u>WHEEL, TIRE AND TUBE (Fig. 30)</u>						
30	1		P	0		2640-052-0944	CAP, TIRE VALVE: screwdriver type (520944) -----	ea	8	*	*	.5	.5
30	2		P	0		2640-050-1229	VALVE CORE, PNEUMATIC TIRE: (501229) -----	ea	8	*	*	1.3	1.3
30	3		P	O	R	2610-051-9450	INNER TUBE, PNEUMATIC TIRE: truck and bus, 10.50/11.00 x 20 (no. MT-20) (new) 11.00 x 20 (519450)	ea	8	*	*	1.7	.9
30	4		P	O	R	2610-262-8653	TIRE, PNEUMATIC: truck and bus w/FLAP, 12-ply, cross country tread, 11.00 x 20 (new) (515110)	ea	8	*	*	.4	.4
30	5		P	O	R	2530-738-8820	WHEEL: w/RING, assy (71300-65950D8) -----	ea	8	*	*	.1	1.3
30	6		C	0		2530-738-9061	RING, SIDE, AUTOMOTIVE WHEEL: (71300-67689B1) -----	ea	8	*	*	.7	.7



ORD E2478

FIGURE 30. WHEEL, TIRE AND TUBE

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Technical Service No.	(b) Source	(c) Maintenance Level	(d) Recoverability				(a) CO OR BRTY	(b) SEP CO OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							LANDING GEAR						
							LANDING GEAR ASSEMBLY Fig. 31)						
31	1		P	O	R	2530-534-2338	LEG, RETRACTABLE SUPPORT: w/GEAR BOX assy (right) (8724590) (see fig. 32 for exploded view)	ea	1	*	*	.1	.1
31	2		P	O	0-5310-579-2045	2530-534-2337	NUT, PLAIN, HEXAGON: low-carb-S, 1/2-20UNF-2B, 3/4 w, 7/16 thk (96906-35690-823)	ea	14	*	*	1.8	1.8
31	3		P	O		5310-012-0384	WASHER, LOCK: split, 5, 1/2 bolt size (96906-35338-29) -----	ea	14	*	*	1.8	1.8
31	4		P	O		2530-534-2337	LEG, RETRACTABLE SUPPORT: assy (left) (8724591) (see fig 32 for exploded view)	ea	1	*	*	.1	.1
31	5		P	O		5310-012-0394	WASHER, FLAT: S, 13/32 id, 13/16 ad, 0.065 thk, for 3/8 screw size (120394)	ea	1	*	*	.3	.3
31	6		P	O		5310-012-0368	NUT, PLAIN, HEXAGON: S, 5/16-24UNF-2B, 1/2w, 17/64 thk (120368)	ea	1	*	*	.3	.3
31	7		P	O		2540-426-9958	CRANK: landing gear, w/HANDLE and PIN, assy (7068315) -	ea	1	*	*	.2	.2
31	8		P	O		5305-706-8318	BOLT, SHOULDER: hex-hd, S, 5/16-24NF-2x 11/32 full thd, 3/8 dia x 1-15/16 shoulder, 2-5/8 over-all (23705-6131747)	ea	1	*	*	.3	.3
31	9		P	O		5305-010-0060	SCREW, CAP, HEXAGON HEAD: low-carb-S, 1/2-20UNF-2A x 5 (10060)	ea	2	*	*	.3	.3
31	10		P	O		2530-797-9015	FOOT: w/COLLAR and PAD, assy (7979015) -----	ea	2	*	*	.2	.2
31	11		P	O		5310-050-3323	NUT, SELF-LOCKING, HEXAGON: S, 1/2-20UNF-3B, 3/4 w, 19/32 thk (critical installation) (503323)	ea	2	*	*	3	3
31	12		X2	O	R	2530-797-9028	AXLE, LANDING GEAR: (M131) (7979028) -----	ea	1	*	*	*	*
31	12		X2	O	R	2530-534-2336	AXLE, VEHICULAR, NON-DRIVING: retractable support (M131A1 and M131A2) (8724596)	ea	1	*	*	*	*
31	13		P	O		5305-207-4534	SCREW, CAP, HEXAGON HEAD: low-carb-S, 1/2-20UNF-2A x 1-1/2 (96906-35292-113)	ea	7	*	*	.9	.9
31	13		P	O		5305-207-4534	SCREW, CAP, HEXAGON HEAD: low-carb-S, 1/2-20UNF-2A x 1-1/2 lg (96906-35292-113)	ea	14	*	*	1.8	1.8



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FIGURE 31. LANDING GEAR ASSEMBLY-EXPLODED VIEW

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>LANDING GEAR - Continued</u>						
							<u>LANDING GEAR LEG (Fig. 32)</u>						
32	1		P	F		2530-534-2351	FELT, MECHANICAL, PREFORMED: retractable support (23705-631419)	ea	2		.2	.2	
32	2		P	F		5310-736-6485	NUT, PLAIN, HEXAGON: bevel gear (7366485)	ea	2		.3	.3	
32	3		P	F		2520-797-9023	GEAR: bevel, operating screw shaft (23705-278524)	ea	2		.2	.2	
32	4		P	F		3110-100-3700	CONE AND ROLLERS, TAPERED ROLLER BEARING: MIL-STD-CODE 709-07100-3000 (705363)	ea	2		.8	.8	
32	5		P	F		3110-100-0637	CUP, TAPERED ROLLER BEARING: MIL-STD-CODE 719-07204-1000 (706797)	ea	2		.8	.8	
32	6		P	F	R	2530-797-9032	SCREW: operating, w/BEARING and bevel GEAR, assy (7979032)	ea	2		.2	.2	
32	7		P	F		3110-100-0585	CUP, TAPERED ROLLER BEARING: MIL-STD-CODE 711-43312-1000 (706892)	ea	2		.8	.8	
32	8		P	F		3110-100-3598	CONE AND ROLLERS, TAPERED ROLLER BEARING: MIL-STD-CODE 711-43112-3000 (705496)	ea	2		.8	.8	
32	9		P	F		5315-012-4552	KEY, WOODRUFF: alloy-S, 3/16x 1 (124552)	ea	2		.3	.3	
32	10		P	F		2530-534-2344	SEAL, PLAIN ENCASED: oil, lower bearing (23705-A2791 32)	ea	2		.5	.5	
32	11		P	F		5310-797-9018	NUT: operating screw shaft (7979018)	ea	2		.3	.3	
32	12		P	F		2530-797-9006	RETAINER: screw shaft nut (7979006)	ea	2		.1	.1	

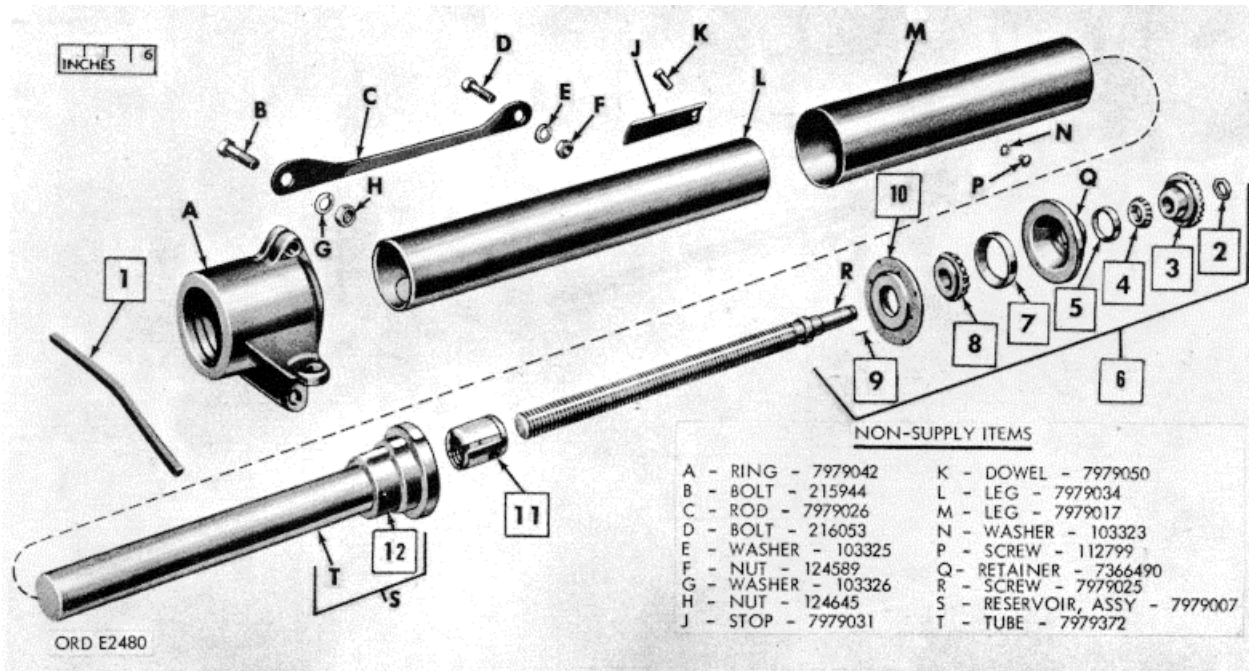


FIGURE 32. LANDING GEAR LEG-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>LANDING GEAR - Continued</u> <u>LEFT LANDING GEAR LEG GEAR BOX (Fig. 33)</u>						
33	1		P	F		3110-151-8176	BEARING, BALL, ANNULAR: MIL-STD-CODE 841-02001-8001 (709692)	ea	4		1.7	1.7	
33	2		P	F		2530-797-9043	SHAFT: cross, bevel gear, left (M131) (7979043)	ea	1		.1	.1	
33	3		P	F		5315-012-4552	KEY, WOODRUFF: alloy-S, 3/16x 1 (124552)	ea	1		.3	.3	
33	4		P	F		2530-569-9882	GEAR, BEVEL: drive shaft (23705-278525)	ea	1		.1	.1	
33	5		P	F		2530-693-0724	HOUSING: gearbox(M131)(7979045)	ea	1		.1	.1	
33	6		P	0		4730-050-4208	FITTING, LUBRICATION: stght, hyd, S, 1/8NPTF male short (96906-15003-1)	ea	2		.3	.3	

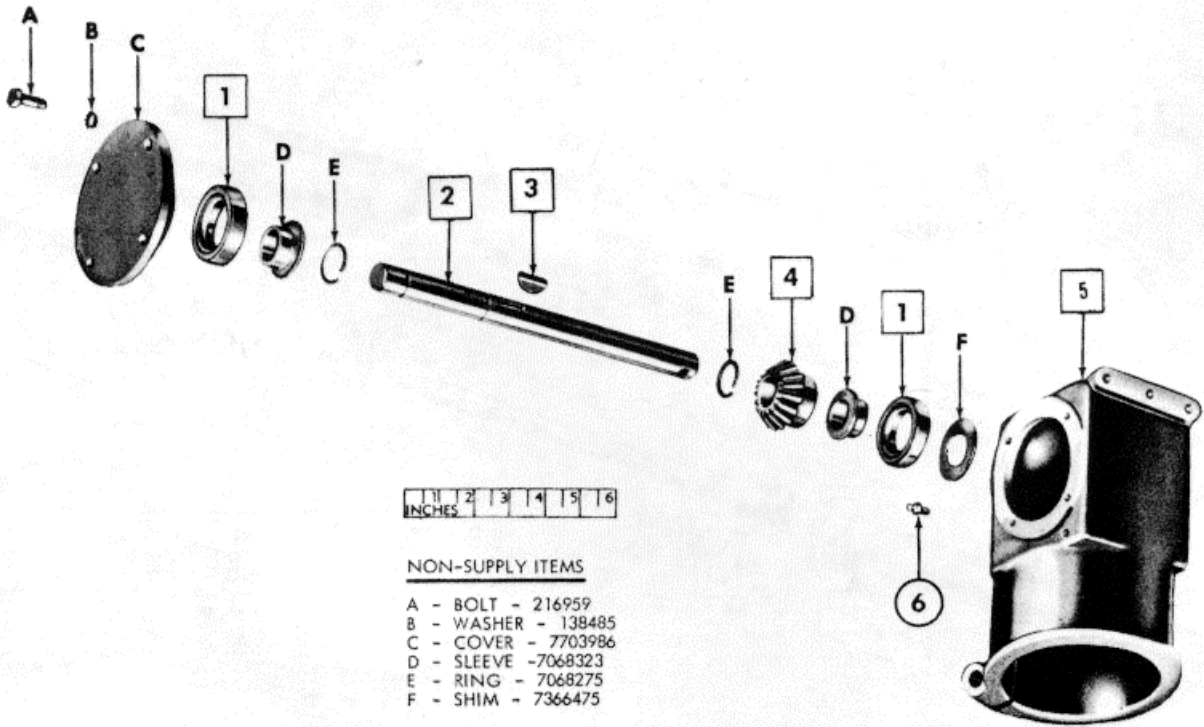


FIGURE 33. LEFT LANDING GEAR LEG GEAR BOX-EXPLODED VIEW

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(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>LANDING GEAR</u>						
							<u>RIGHT LANDING GEAR LEG GEAR BOX (Fig. 34)</u>						
34	1		P	F		2530-693-0722	HOUSING: gearbox, right (M131) (7979040) -----	ea	1		.1	.1	
34	2		P	F		2530-736-6475	SHIM: gear box bearing (7366475) -----	ea	2		.2	.2	
34	3		P	F		3110-151-8176	BEARING, BALL, ANNULAR: MIL-STD-CODE 841-02001-8001 (operating screw shaft (2) and cross shaft (2)) (709692)	ea	4		1.7	1.7	
34	4		P	F		2530-797-9044	SHAFT BEVEL GEAR: cross right (M131) (7979044) -----	ea	1		.1	.1	
34	5		P	F		5315-012-0502	KEY, WOODRUFF: alloy-S, 3/16x 7/8 (no. 607OR 11) (120502)	ea	2		.3	.3	
34	6		P	F		2520-797-9019	PINION: gear box (17 teeth) (23705-278526) -----	ea	2		.1	.1	
34	7		P	F		2530-797-9016	GEAR, SPUR: driven (30 teeth) (M131) (7979016) -----	ea	1		.1	.1	
34	8		P	F		3110-112-5803	BEARING, ROLLER, NEEDLE: MIL-STD-CODE 354-02202-0000 (709436)	ea	2		.8	.8	
34	9		P	F		5330-740-5469	SEAL: oil, ML type, 1.000 aod, 1/8w, 0.750 shaft dia (7405469)	ea	1		.5	.5	
34	10		P	F		2530-797-9029	SLEEVE: operating screw shaft (23705-302763) -----	ea	1		.1	.1	
34	11		P	F		5310-281-1198	RING, RETAINING: extr, S, cd-or zn-chromaterfin., 1-3/8 shaft dia (583389)	ea	2		.3	.3	
34	12		P	O		4730-050-4208	FITTING, LUBRICATION: stght, hyd, S, 1/8NPTF male short (96906-15003-1)	ea	2		.3	.3	
34	13		P	F		5315-050-5682	KEY, MACHINE: sq-end, S, 3/16x 3/16 x 1-5/8 (drive spur gear) (505682)	ea	2		.3	.3	
34	14		P	F		2520-797-9021	PINION: drive, gear box (12 teeth) (23705-279441) -----	ea	1		.1	.1	
34	15		P	F		2520-797-9022	GEAR: drive (28 teeth) (M131) (7979022) -----	ea	1		.1	.1	
34	16		C	F		5340-281-2911	RING, RETAINING: exter, S, 13/16shaftdia (583382) -----	ea	1		.1	.1	
							<u>NON-ILLUSTRATED ITEMS</u>						
			P	F		2530-569-9881	GEAR SPUR: drive, low speed, shaft, right gear box (M131A1 and M131A2) (8689560)	ea	1		.1	.1	
			P	F		5315-058-6023	PIN: spring, 5, cd- or zn-pltd, 0.0375 dia, 2 lg (drive shaft bevel pinion gear) (586023)	ea	1		.1	.1	

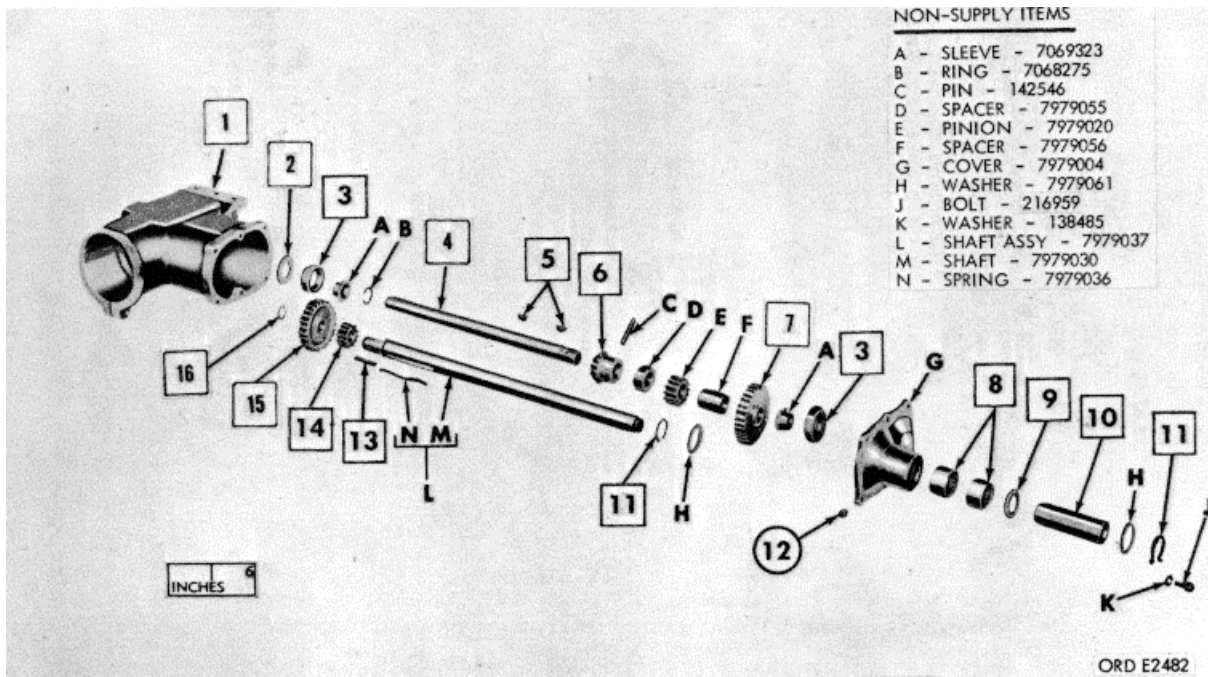


FIGURE 34. RIGHT LANDING GEAR LEG GEAR BOX-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							SUSPENSION						
							SPRING SEAT AND BEARINGS (M131, M131A1) (Fig. 35)						
35	1		P	0		5306-012-0834	SCREW, CAP, HEXAGON HEAD: low-carb-S, 5/16-18UNC-2A x 1/2 (120834)	ea	12	*	1	1	
35	2		P	0		5310-012-0214	WASHER, LOCK: split, S, 5/16screw size (120214)	ea	12	*	1	1	
35	3		P	0		2510-740-9391	CAP: seat housing (8500-3262G85)	ea	2	*	.1	.1	
35	4		P	0		2510-740-9600	GASKET: seat bearing cap (78500-2208A313)	ea	2	*	.2	.2	
35	5		P	0		5310-353-2427	NUT, PLAIN, OCTAGON: spring seat bearing ('346885)	ea	2	*	.4	.4	
35	6		P	0		5310-700-7089	WASHER, KEY: lock, housing (8500-1229V48)	ea	2	*	.5	.5	
35	7		P	0		5310-353-2297	NUT: adjusting, spring seat bearing (7409603)	ea	2	*	.4	.4	
35	8		P	0		3110-100-0649	CONE AND ROLLERS, TAPERED ROLLER BEARING: 711-00780-3000 geat, outer) (705155)	ea	2	*	.5	.5	
35	9		P	0		3110-142-4390	CUP, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00592-1011 spring seat) (706691)	ea	4	*	.5	.5	
35	10		P	0		2510-741-8773	SEAT: spring, w/bearing CUPS, assy (78500-A327B1016)	ea	2	*	.1	.1	
35	11		P	0		5306-575-5419	BOLT, "U": spring (8741539)	ea	4	*	.3	.3	
35	12		P	0		5310-013-1050	WASHER, LOCK: split, S, 1-1/4boltsize (131050)	ea	4	*	.5	.5	
35	13		P	0		5306740-9608	BOLT, MACHINE: retaining, spring seat (78500-3X290)	ea	4	*	.5	.5	
35	14		P	0		2530-740-9550	SEAL, PLAIN, ENCASED: oil, spring seat, assy (7409550)	ea	2	*	.8	.8	
35	15		P	0		2530-740-9553	WIPER: hub bearing, oil seal (8500-119FI436)	ea	2	*	.2	.2	
35	16		P	0		2510-740-9606	RETAINER: oil, seat (7409606)	EA	2	*	.3	.3	
35	17		P	0		5330-740-9312	SEAL oil, seat (78500-5X625)	ea	4	*	.5	.5	
35	18		P	0		5310-740-9615	WASHER, FLAT: seat, oil seal ('8500-122951345)	ea	2	*	.3	.3	
35	19		P	0		3110-198-1468	CONE AND ROLLERS, TAPERED ROLLER BEARING: MIL-STD-CODE 711-00593-3011 seat, inner) (712286)	ea	2	*	.5	.5	
35	20		P	0		5310-013-1144	WASHER, LOCK: split, S, i in bolt size (131144)	ea	8	*	1	1	
35	21		P	0	0	5310-700-7127	NUT, PLAIN, HEXAGON: S, 1-14NF-2, 1-5/16 thk	ea	8	*	1	1	

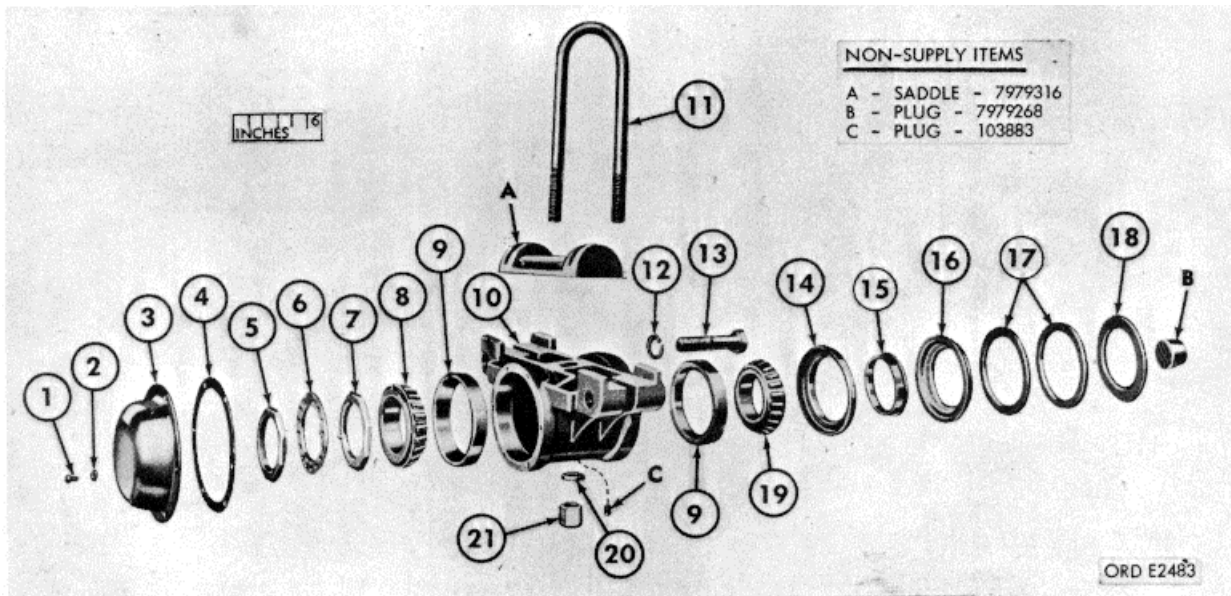


FIGURE 35. SPRING SEAT AND BEARINGS (M131 AND M131A1)-EXPLODED VIEW

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
36	1		P	O	R	2510-318-1018	<u>SUSPENSION - CONTINUED</u>						
36	2		P	O		5310-010-3028	<u>SPRING ASSEMBLY (M131) (Fig. 36)</u>	ea	2	*	.3	.3	
							SPRING: assy (7979440) -----	ea	2	*	.5	.5	
							NUT, PLAIN, HEXAGON: S, plain fin., 1/2-20UNF-2B, 3/4 w, 7/16 thk (103028)						
							<u>SPRING ASSEMBLY (M131A1) (NON-ILWSTRATED)</u>						
			P	O		5306-206-7279	BOLT, MACHINE: center, spring p979425)-----	ea	2	*	.4	.4	
			P	O		5310-010-3028	NUT, PLAIN, HEXAGON: S, plain fin., 1/2-20UNF-2B, 3/4 w, 7/16 thk (103028)	ea	2	*	.5	.5	
		P	O	R		2510-797-9217	SPRING ASSEMBLY, LEAF: (7979217)-----		2	*	.3	.3	

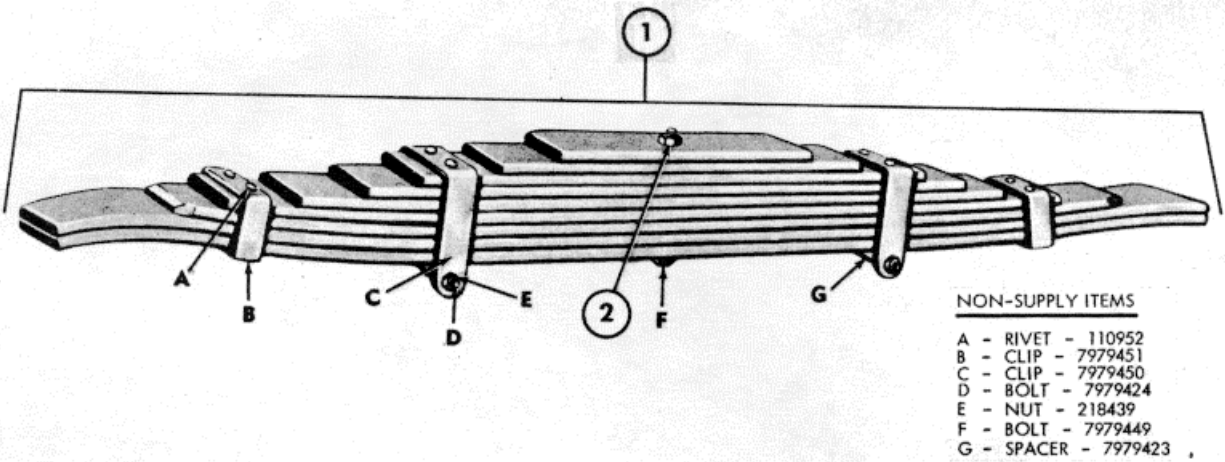


FIGURE 36. SPRING ASSEMBLY (M131).

ORD E2484

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
37	1		P	O	R	2510-627-8311	<u>SUSPENSION - Continued</u>						
37	2		P	O		5306-627-9259	<u>SPRING ASSEMBLY (M131A2) (Fig. 37)</u>	ea	2	*	3	3	
37	3		P	O		5310-059-1331	SPRING, ASSEMBLY: (7939507)-----	ea	4	*	3	3	
							BOLT, "U": (7059482)-----	ea	8	*	1	1	
							NUT, SELF-LOCKING, HEXAGON: S, 1-1/8-12UNF-3B, 1-5/8 w, 1-1/4 thk (591331)						
							<u>NON-ILLUSTRATED ITEMS</u>						
			P	O		5340-610-2387	RUBBER, STRIP, SOLID: end (7059502)-----	ea	4	*	4	4	
			P	O		4720-610-2385	TUBE, RUBBER: trunnion (7059445)-----	ea	4	*	4	4	

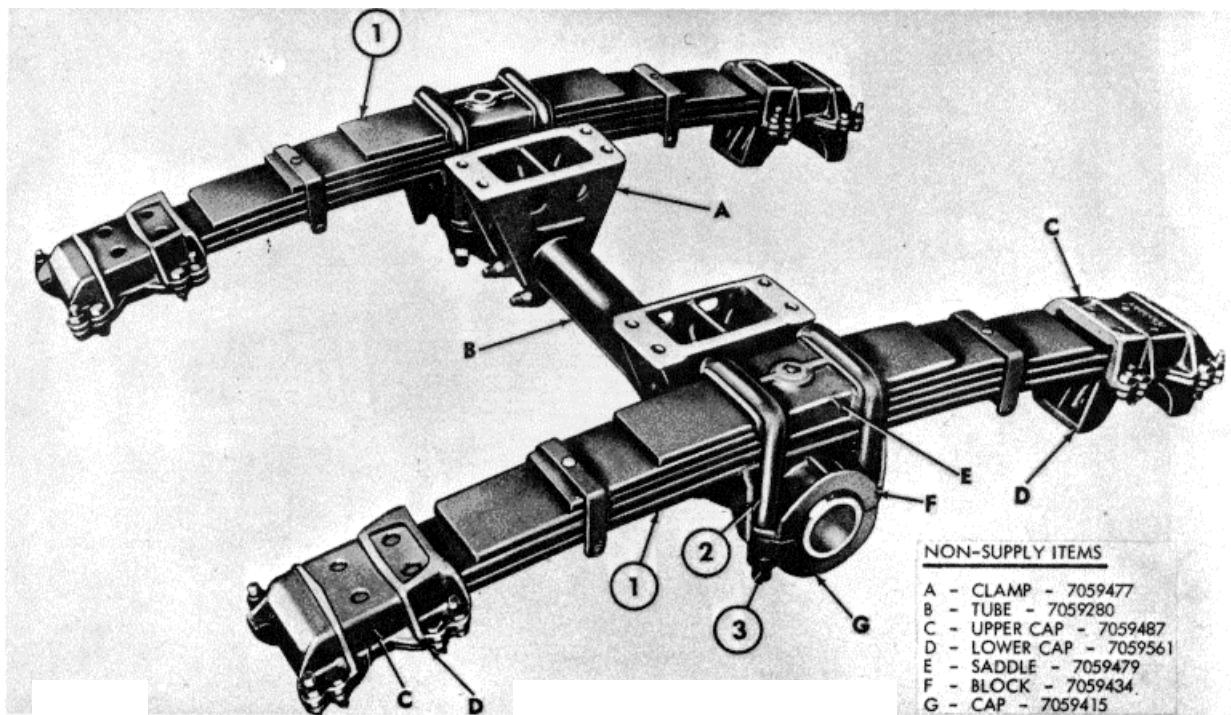


FIGURE 37. SPRING ASSEMBLY (M131A2).

ORD E 2485

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							SUSPENSION - Continued						
							TORQUE RODS AND BRACKETS (M131 AND M131A1) (Fig. 38)						
38	1		P	O	R	2530-797-9189	TORQUE ROD, TANDEM AXLE: assy (78500-A13102B244)-----	ea	6	*	.5	.5	
38	2		P	0		2530-740-9620	BALL: w/BUSHING, assy (78500-A2110L116)-----	ea	12	*	2	2	
38	3		X2	0		2530-797-9224	BRACKET: TORQUE ROD (7346955)-----	ea	6	*	*	*	
38	4		P	0		5315-013-7273	PIN, COTTER: cd- or zn-pltd, 3/16 x 2-1/2 (137273)-----	ea	12	*	1.5	1.5	
38	5		P	0		5310-740-9621	NUT: castle (78500-1222X414)-----	ea	12	*	.9	.9	
38	6		P	0		2510-734-6999	PLATE: rear axle, spring guide, bracket (7346999)-----	ea	4	*	.4	.4	
38	7		P	0		5305-797-9338	BOLT, MACHINE: retaining, spring guide bracket (7979338)-----	ea	16	*	1.3	1.3	
38	8		P	0		5310-010-3333	WASHER, LOCK: split, 5, 7/8 bolt size (103333)-----	ea	24	*	1	1	
38	9		P	O		5310-639-7444	NUT, PLAIN, HEXAGON: S, plain fin., 7/8-14UNF-2B, 1-5/16 w, 29/32 thk (272243)	ea	24	*	2	2	

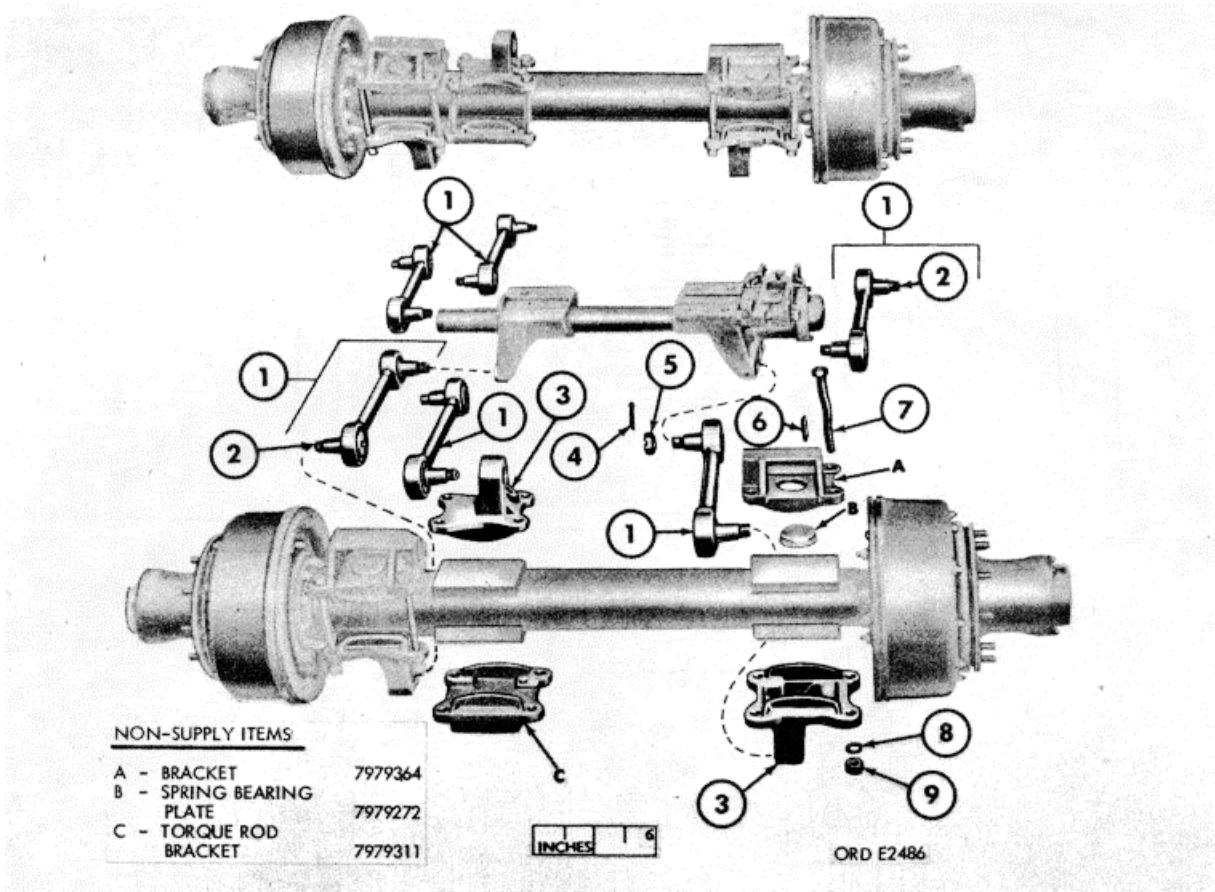


FIGURE 38. TORQUE RODS AND BRACKETS (M131 AND M131A1).

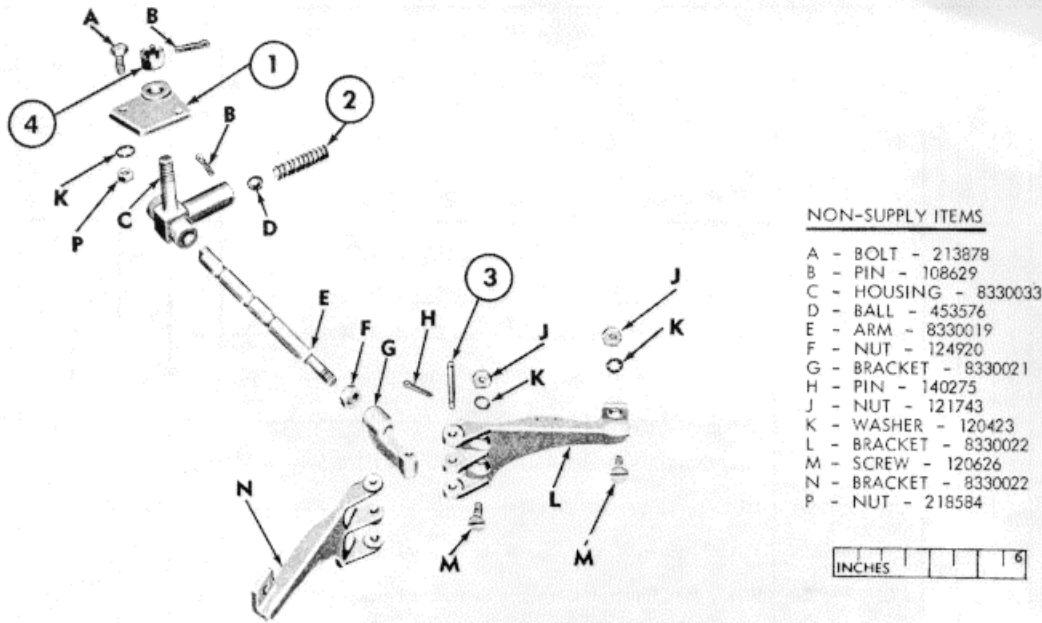


FIGURE 39. REAR CABINET DOOR STOP-EXPLODED VIEW.

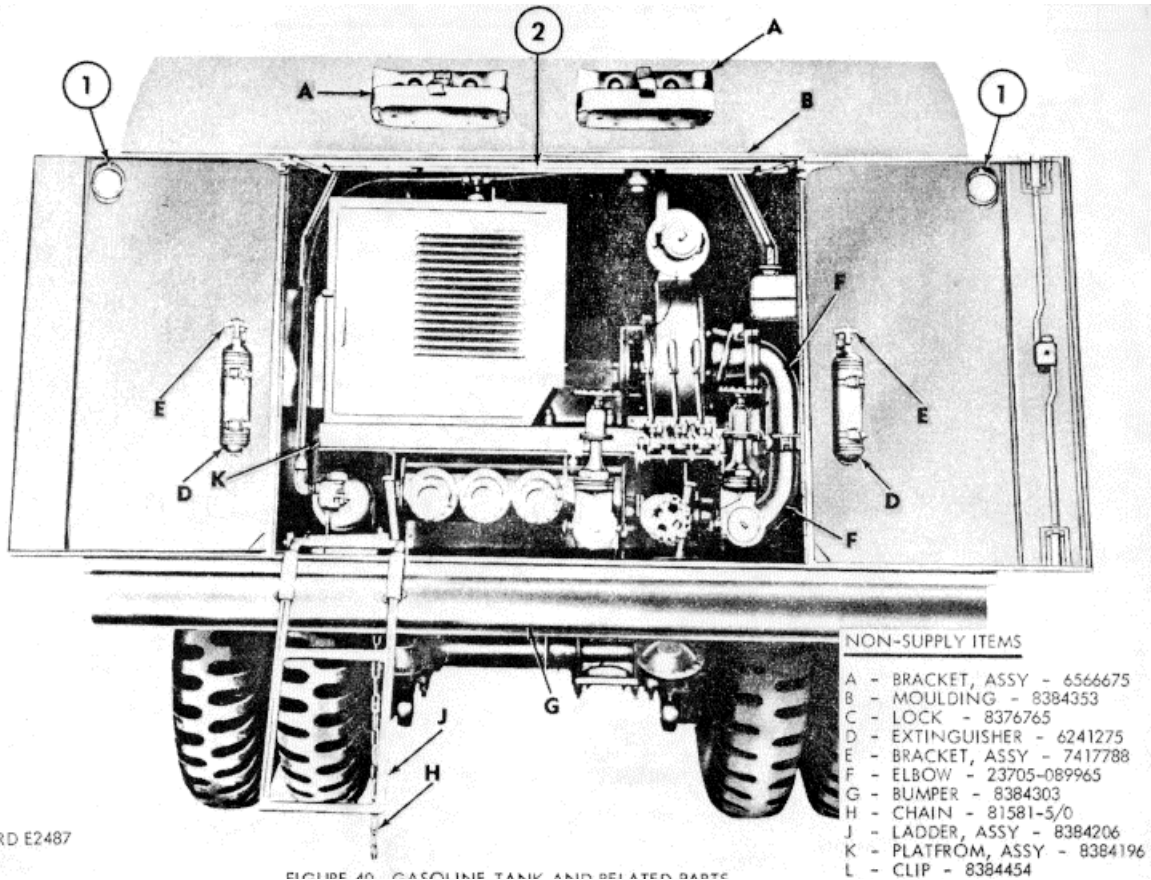


FIGURE 40. GASOLINE TANK AND RELATED PARTS.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>GASOLINE TANK (M131, M131A1)</u>						
							<u>REAR CABINET DOOR STOP (Fig. 39)</u>						
39	1		P	O		2510-693-0638	BEARING: pivot door stop (8330020)-----	ea	2	*	*	3	3
39	2		P	O		5340-321-6392	SPRING: door stop, arm check ball (8330038)-----	ea	2	*	*	3	3
39	3		P	O		5315-316-1003	PIN: door bracket, assy (8330036)-----	ea	2	*	*	3	3
39	4		P	O		5310-208-8367	NUT, CASTELLATED, HEXAGON: S, 7/16-20UNF-2B, 11/16 w, 29/64 thk (596631)	ea	2	*	*	3	3
							<u>GASOLINE TANK AND RELATED PARTS (Fig. 40)</u>						
40	1	5	P	O		9905-205-2795	REFLECTOR, INDICATING, CLEARANCE: red, oval frame (S), hermetically sealed lens, assy (96906-35387-1)	ea	4	*	*	5	.5
			P	O		5310-013-1395	NUT, PLAIN, SQUARE: S, cd- or zn-pltd, 1/4-20UNC-2B, 7/16w, 3/16 thk (131395)	ea	8	**	5	5	.5
40	2		P	O		6680-040-2437	STICK: gasoline gage n(maple) (8330916)-----	ea	1	*	*	5	5
							<u>NON-ILLUSTRATED ITEMS</u>						
			P	O		4730-335-2575	ADAPTER: quick hose coupling (female) (8331515)-----	ea	4	*	*	5	5
			P	O		4730-038-5628	ADAPTER: quick hose coupling, w/2 in NPT (female) (8330291)	ea	1	*	*	5	5
			P	O		4730-036-4490	ADAPTER: quick hose coupling, w/3 in NPT (female) (8330290)	ea	1	*	*	5	5
			P	O		4730-039-4934	COUPLING: 3 IN NPT, QUICK HOSE, ASY (1330292)-----	ea	1	*	*	5	5
			P	O		4730-216-6053	COUPLING: 3 in NPT, quick hose, assy (nale) 18330293,-----	ea	2	*	*	5	5
			P	O		4731-335-2576	COUPUNG: quick, hose, assy rle) (8331546)-----	ea	4	*	*	5	5
			P	O		5330-318-4327	GASKET: quick hose coupling (8330928)-----	ea	6	*	*	*	1
			P	O		2540-318-1019	HOSE: gasoline, 3 in X 15 FT IG, W/COUPUNG, ANY (8330294)	ea	3	*	*	5	5
			P	O		4730-2166075	PLUG: dust, hose (8330295)-----	ea	3	*	*	5	5

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- te- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>GASOLINE TANK (M131, M131A1)- Continued</u>													
<u>CENTRIFUGAL DISPENSING PUMP (Fig. 41)</u>													
41	1		P	O	R	2540-693-0762	PUMP: GASOLINE, ASSY (8331640)-----	EA	*	2	2		
41	2		P	F		2510-693-0758	GASKET: SUCTION FITTING TO COVER (8331634)-----	EA	1	5	5		
41	3		P	F		2520-692-6234	VALVE: INTAKE CHECK (8331644)-----	EA	1	1	1		
41	4		P	F		4320-388-1934	GASKET: TANK TO COVER (8331633)-----	EA	1	5	5		
41	5		P	F		2540-693-0756	GASKET: COVER TO DIFFUSER (8331631)-----	EA	1	8	8		
41	6		P	F		5310-569-8962	NUT: IMPELLER CAP (5/8-11LNC) (8331638)-----	EA	1	2	2		
41	7		P	F		2510-693-0757	GASKET: TANK TO DISCHARGE TEE (8331632)-----	EA	1	5	5		
41	8		P	F		3110-144-8657	BEARING: BALL, MIL-STD-CODE 111-03503-0000 (700336)----	EA	2	4	4		
41	9		P	F		2540-693-0753	CAP: IMPELLER SHAFT BEARING, INNER (8331628)-----	EA	1	1	1		
41	10		P	F		2510-693-0759	GASKET: PLATE TO LANTERN FRAME (8331635)-----	EA	1	8	8		
41	11		P	F		2540-693-0755	COLLAR: THROW-OUT, IMPELLER SHAFT (8331630)-----	EA	1	1	1		
41	12		P	F		2590-693-4223	GASKET: TANK TO LANTERN (8331636)-----	EA	1	8	8		
41	13		P	F		2540-693-0761	KIT: IMPELLER SHAFT SEAL (8331639)-----	EA	2	2			
41	13.1						COMPOSED OF: 1 SPRING: SEAL (38455-20740)						
41	13.2						1 COLLAR: RUBBER (38455-20739)						
41	13.3						1 RING: SEAL (38455-20037)						
41	13.4						1 GASKET: SEAL, RING (38455-20038)						
<u>NON-ILLUSTRATED ITEMS</u>													
			P	F		2520-692-6232	SHIM: IMPELLER (8331642)-----	EA	4	5	5		
			P	F		5330-318-4322	GASKET: PUMP INLET (8330887)-----	EA	2	1	1		
			P	O		3020-322-9639	COUPLING: FLEXIBLE (IMPELLER SHAFT) (8330920)-----	EA	1	*	5	5	
			P	O		2020-222-9640	SPIDER, COUPLING, FLEXIBLE (8330921)-----	EA	1	*	2	2	

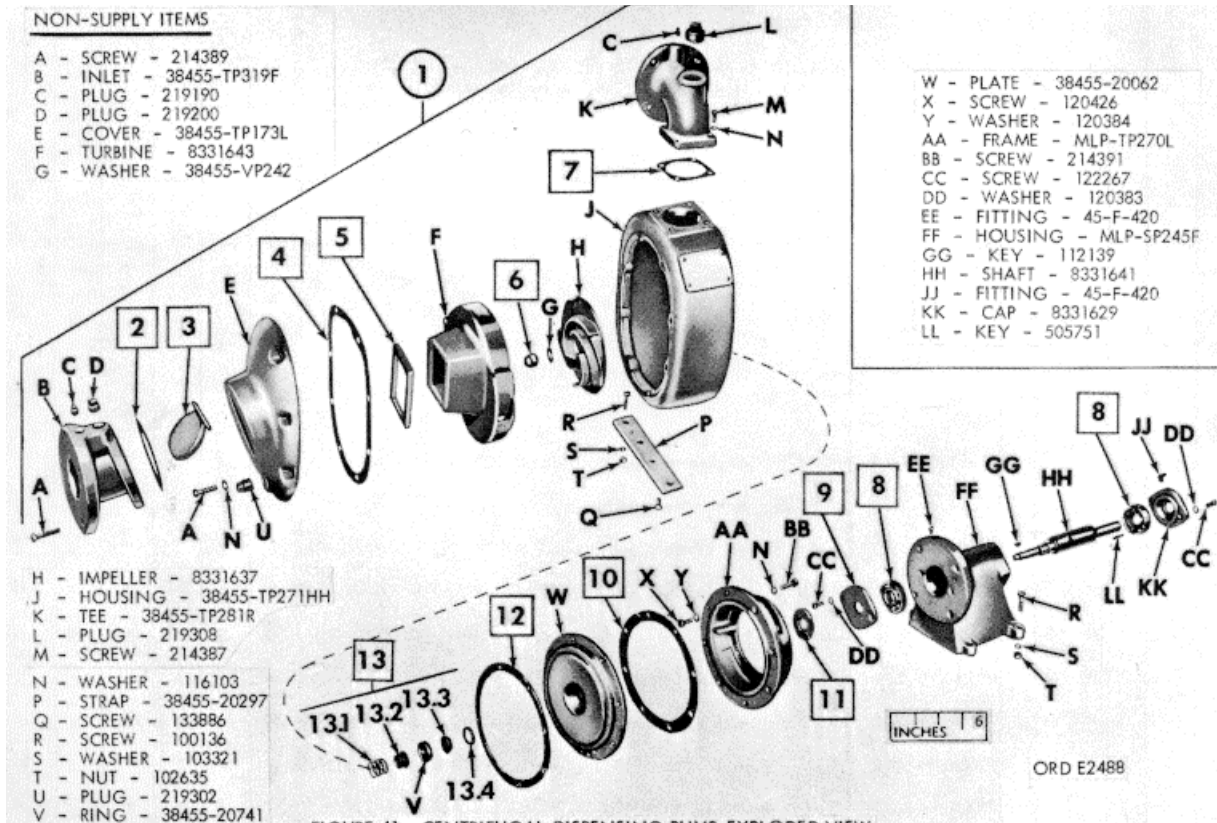


FIGURE 41. CENTRIFUGAL DISPENSING PUMP-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>GASOLINE TANK (M131, M131A1) - Continued</u>													
<u>EMERGENCY RELIEF VALVE (Fig. 42)</u>													
42	1		P	F		5340-321-6427	SPRING: emergency valve plunger (8330914) -----	ea	3			.3	.3
42	2		P	F		2590-040-2433	PLUNGER: emergency valve (8330905) -----	ea	3			.3	.3
42	3		P	F		5340-321-6426	RETAINER: emergency valve plunger disk (8330906) -----	ea	3			3	.3
42	4		P	F		5340-321-6425	DISK: emergency valve plunger (8330136) -----	ea	3			1.5	1.5
42	5		P	F		5310-333-7539	NUT: retainer, emergency valve disk (8330900) -----	ea	3			.3	.3
42	6		P	O		2590-040-2439	SCREEN: br, emergency valve (8330927) -----	ea	3		*	.5	.5
42	7		P	F		2590-040-2425	CAM: operating, emergency valve plunger (8330875) -----	ea	3			.2	.2
42	8		P	F		5330-318-4323	GASKET: emergency valve packing box (8330888) -----	ea	3			.8	.8
42	9		P	F		5330-318-4326	SEAL: packing box, emergency valve (8330909) -----	ea	6			.3	.3
42	10		P	O		2540-318-1020	CLEVIS: emergency valve control yoke (8330877) -----	ea	4		*	.2	.2
<u>NON-ILLUSTRATED ITEMS</u>													
			P	O		2590-040-2423	BELLOWS, RUBBER: emergency control cable (8330296)-----	ea	3	*	*	.8	.8
			P	O		4730-216-6084	FITTING: compression, control cable, assy (8330880) -----	ea	3	*	*	.2	.2
			P	O		4730-216-6086	FITTING: lubrication, control cable, assy (8330881) -----	ea	4	*	*	.3	.3
			P	O	O	5330-318-4318	GASKET: emergency valve (1) and manifold (3) (8330883) ---	ea	4	*	*	.2	.2
			P	O		2590-318-4319	GASKET: emergency valve to tank (8330884)-----	ea	3	*	*	1.5	1.5

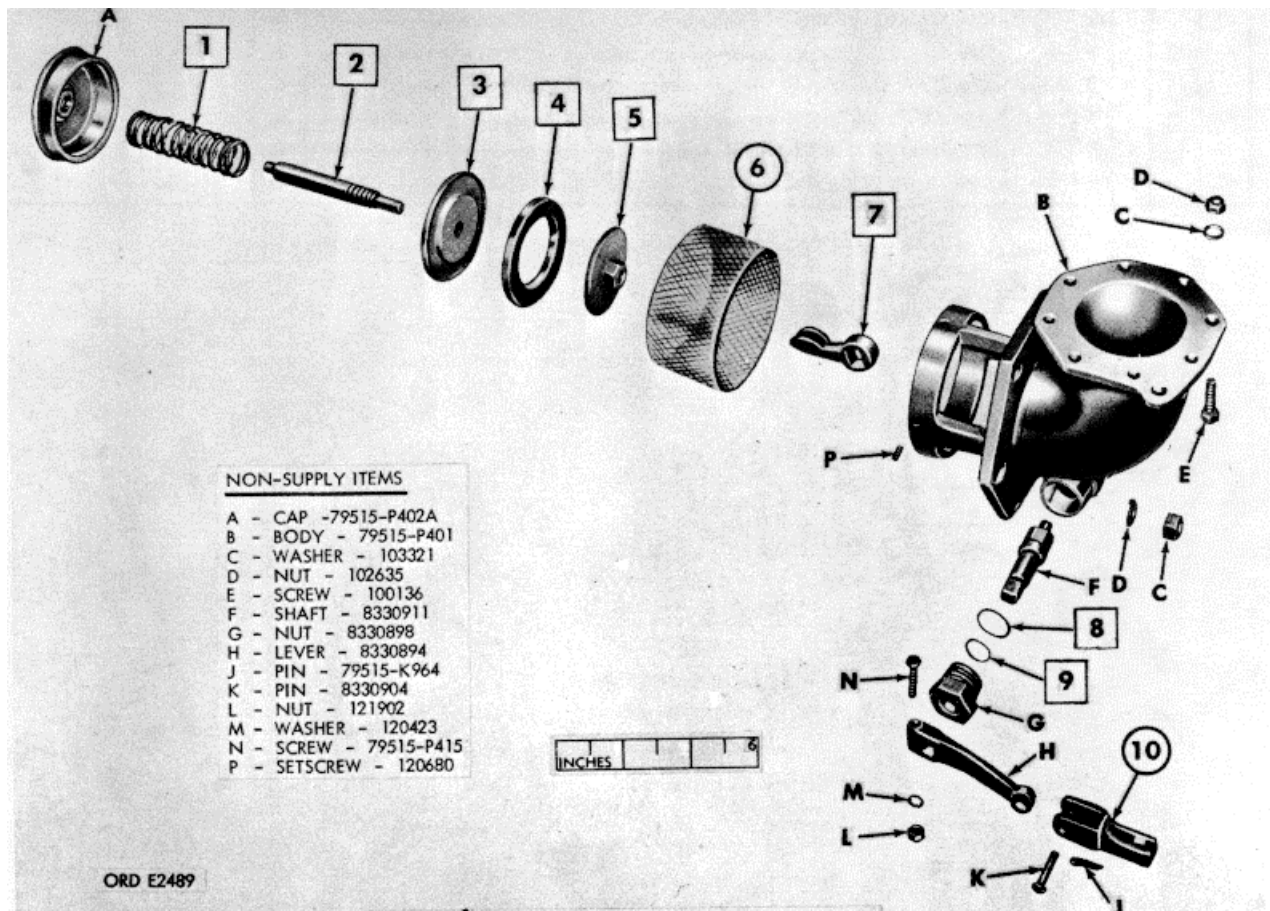


FIGURE 42. EMERGENCY RELIEF VALVE-EXPLODED VIEW

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
<u>GASOLINE TANK (M131, M131A1) - Continued</u>													
<u>EMERGENCY VALVE CONTROL (Fig. 43)</u>													
43	1		P	0		5305-030-7420	SCREW: dowel, emergency valve control bracket (8330908)-----	ea	4		*	3	3
43	2		P	0		5315-316-1025	PIN: clevis, emergency valve control (8330904)-----	ea	4		*	3	3
43	3		P	0		2540-318-1020	CLEVIS: emergency valve control yoke (8330877)-----	ea	4		*	2	2
43	4		P	0		4930-329-7258	SPRING: release, emergency valve, front (7326258)-----	ea	1		*	3	3
43	5		P	0		2590-213-7694	CAM: trip, emergency valve (8330876)-----	ea	3		*	2	2
43	6		P	0		2540-693-0746	ROLLER: trip, emergency valve (8330907)-----	ea	3		*	3	3
43	7		P	0		3120-662-1481	BUSHING: emergency valve operating lever bracket, center (8330298)	ea	2		*	2	2
43	8		P	0		5340-732-6256	SPRING: release, emergency valve (7326256)-----	ea	1		*	3	3
43	9		P	0		5315-316-1024	PIN: clevis, emergency valve trip handle (8330903)-----	ea	3		*	3	3
43	10		P	0		2590-213-7699	HANDLE: trip, emergency valve (8330891)-----	ea	3		*	1	1
43	11		P	0		4820-313-2601	GUIDE: emergency valve operating trip rod (8330889)-----	ea	6		*	2	2
43	12		P	0		5340-732-6257	SPRING: emergency valve, trip rod (7326257)-----	ea	3		*	3	3
43	13		P	0		5306-637-7560	STUD: emergency valve, trip latch (8330917)-----	ea	1		*	3	3
43	14		P	0		2590-213-7695	LATCH: trip, emergency valve (8330893)-----	ea	3		*	1	1
43	15		P	0		2590-308-8864	SHAFT: emergency valve plunger operating cam (8330910)-----	ea	1		*	1	1
43	16	5	P	0		4210-033-6032	LINK: fusible, emergency valve-----	ea	1		*	5	5
43	17		P	0		2590-040-2432	LEVER: operating, emergency valve (8330897)-----	ea	3		*	1	1

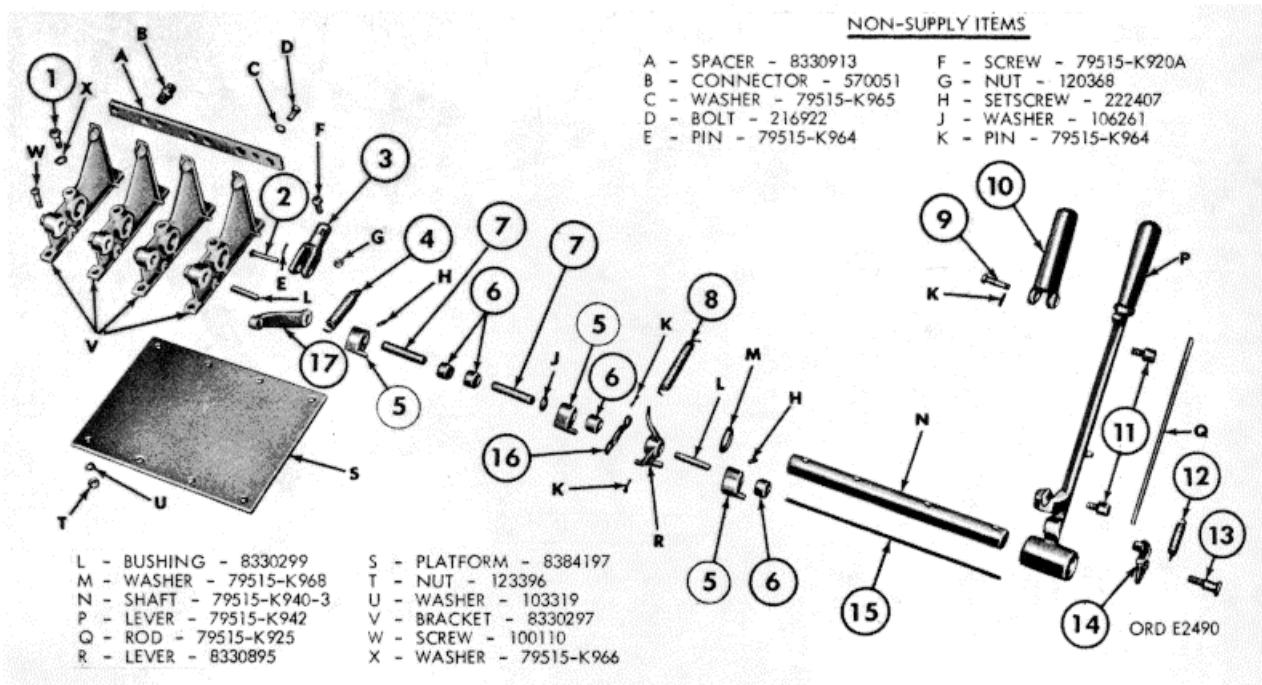


FIGURE 43. EMERGENCY VALVE CONTROL-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- te- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
44	1		P	O		5305-489-4368	<u>GASOLINE TANK (M131, M131A1)- Continued</u>	EA	12	*	5	5	
44	2		P	O		5330-318-4321	<u>MANIFOLD COUPLING (Fig. 44)</u>	EA	6	*	1.3	1.3	
45	1		P	F		5330-318-4325	BOLT: 3 IN PIPE, COUPLING HOUSING (1/2 X 2-3/4) (8330926)--						
45	2		P	F		5310-333-7540	GASKET: 3 IN PIPE, COUPLING (8330886>)-----						
45	3		P	F		2590-318-4320	REAR MANIFOLD (FIG. 45)	EA	3	3	3		
							PACKING: MANIFOLD VALVE STEM (8330902)-----	EA	3	5	5		
							WASHER: MANIFOLD VALVE (8330919)-----	EA	3	5	5		
							GASKET: MANIFOLD VALVE BONNET (8330885)-----	EA	3	8	8		
							<u>NON-ILLUSTRATED ITEM</u>						
			P	O		5305-335-4699	BOLT, "U": (3 IN PIPE SUPPORT) (8330918) -----	EA	4	*	2	2	

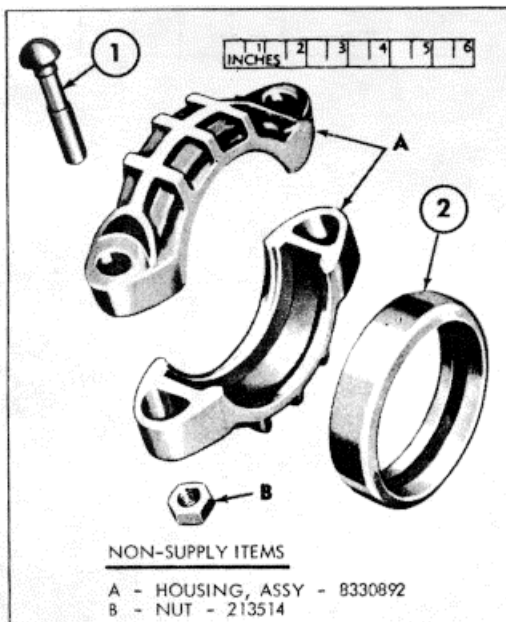


FIGURE 44. MANIFOLD COUPLING-EXPLODED VIEW.

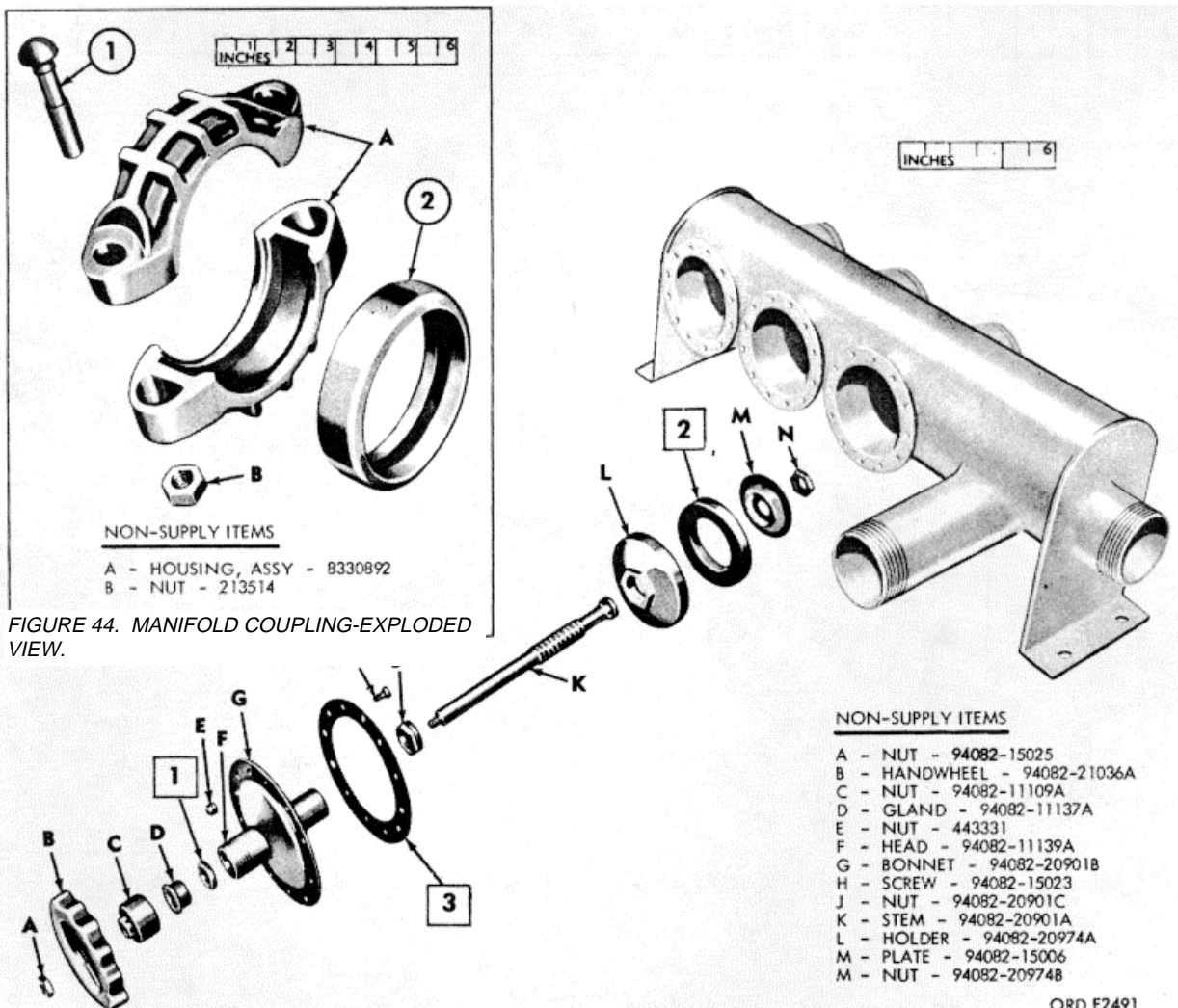


FIGURE 45. REAR MANIFOLD-EXPLODED VIEW

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>GASOLINE TANK (M131, M131A1) - Continued</u> <u>GATE VALVE (Fig. 46)</u>						
46	1		P	F		5310-333-7538	NUT: 3 in gate valve stem packing (8330899)-----	ea	3				
46	2		P	F		4820-040-2427	GLAND: 3 in gate valve (8330882)-----	ea	3			.3	
46	3		P	F		5330-318-4324	PACKING: 3 in gate valve stem (8330901)-----	ea	3			.3	
46	4		P	F		4820-040-2436	STEM: 3 in gate valve (8330915)-----	ea	3			.3	

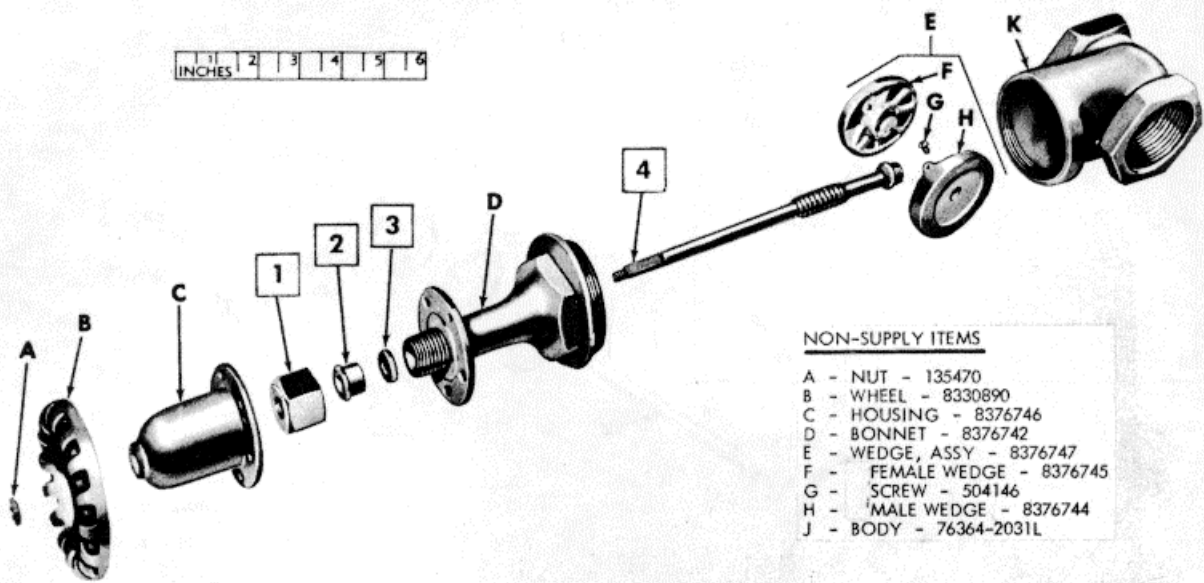


FIGURE 46. GATE VALVE-EXPLODED VIEW

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- te- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
GASOLINE TANK (M131, M131A1) - Continued													
MANHOLE COVER, FILLER CAP, AND VAPOR RELIEF VALVE (Fig. 47)													
47	1		P	0		2510-732-6270	GASKET: outer manhole cover (7326270) -----	EA	3		*	.8	.8
47	2		P	0		5310-732-6278	NUT: wing, clamp (7326278) -----	EA	18		*	.2	.2
47	3		P	0		2510-736-8101	SPRING: closing lever, cam cover (7368101) -----	EA	3		*	.2	.2
47	4		P	0		2510-832-7869	CATCH: hinge (8327869) -----	EA	3		*	.3	.3
47	5		P	0		5330-736-8084	GASKET: inner manhole cover (7368084) -----	EA	3		*	.8	.8
47	6		P	0		3120-732-9617	BUSHING: adjusting, inner cover (7329617) -----	EA	3		*	.2	.2
47	7		P	0		2510-692-9744	SPRING: inner cover (7368094) -----	EA	3		*	.2	.2
47	8		P	0		2510-832-7871	HINGE: manhole cover (8327871) -----	EA	3		*	.3	.3
47	9		P	0		2510-732-6272	SPRING: bumper (7326272) -----	EA	3		*	.2	.2
NON-ILLUSTRATED ITEMS													
			P	0		2510-732-6276	CLAMP: hook (7326276) -----	EA	18		*	.2	.2
			P	0		2530-693-0573	HUB: clamp (7326297) -----	EA	18		*	.2	.2
			P	0		5340-736-8076	PLUG: fusible, manhole cover (7368076) -----	EA	3		*	.2	.2

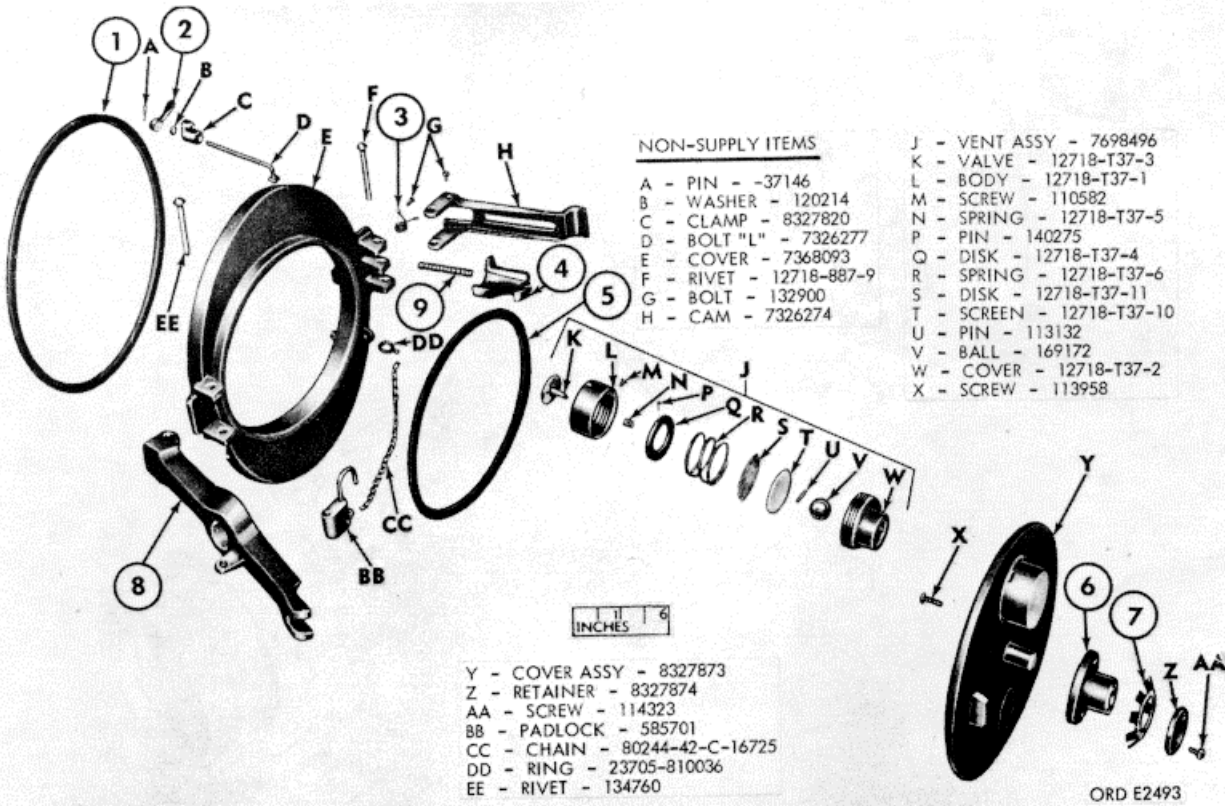


FIGURE 47. MANHOLE COVER, FILLER CAP, AND VAPOR RELIEF VALVE-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
48	1		P	O	R	2590-612-1249	GASOLINE TANK (MI31A2)						
48	2		P	F		2590-612-1251	CENTRIFUGAL DISPENSING PUMP (Fig 48)						
48	3		P	F		2520-627-8313	PUMP, CENTRIFUGAL: fuel dispensing, assy (7739779) ----- IMPELLER: centrifugal pump, fuel dispensing, assy (7739781)----- PARTS KIT, GASOLINE DISPENSING PUMP: (5702180)-----	ea	1	*	2	2	
48	3.1						Composed of:						
48	3.2						1SPRING: (7739748)						
48	3.3						1 BELLOWS: (7739747)						
48	3.4						1 BAND: (7739697)						
48	3.5						1SEAL: (7739698)						
48	3.6						1WASHER: '7739745)						
48	3.7						1SEAT: (7739746)						
							1 "O" RING: '73625-9021-223)						

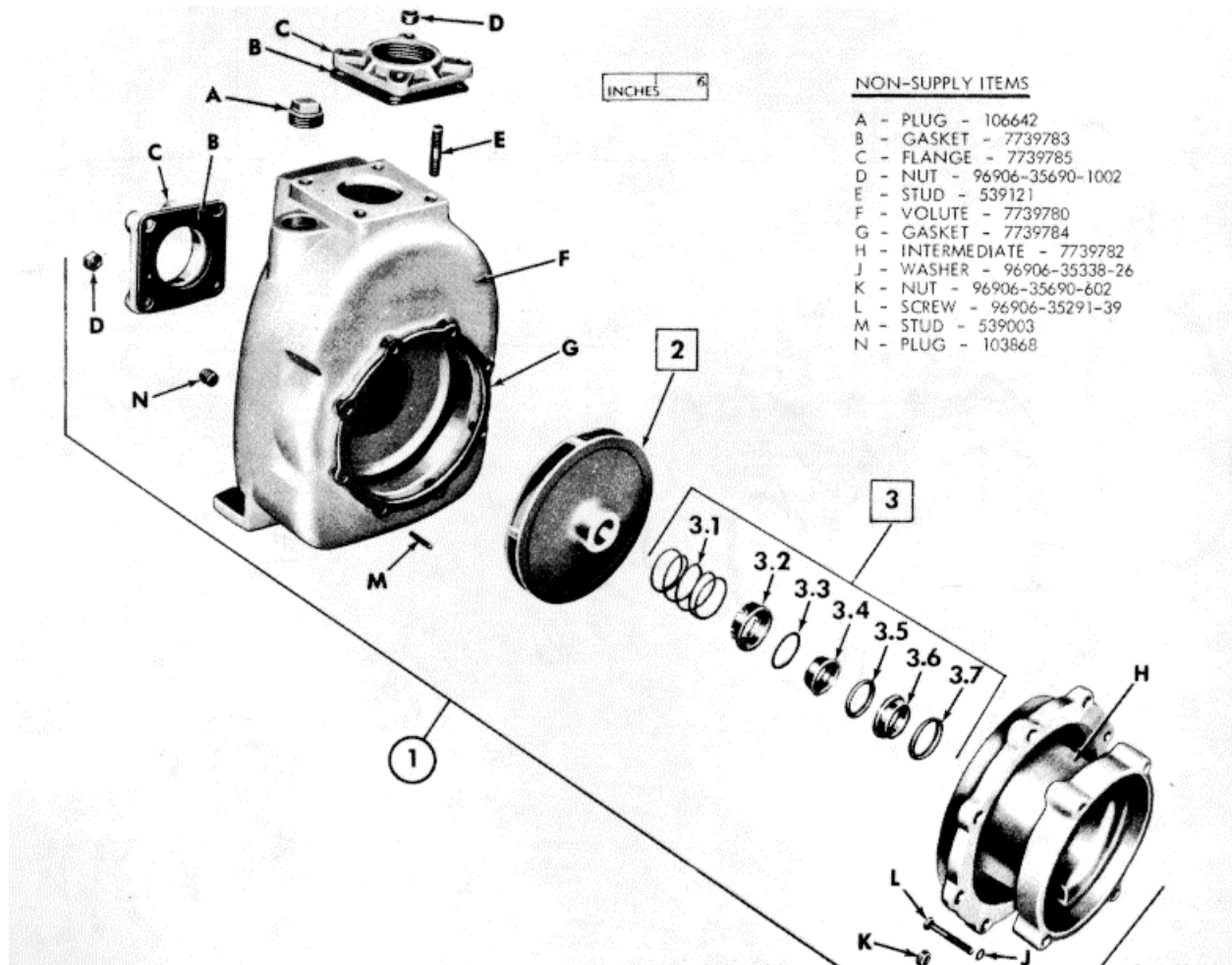


FIGURE 48. CENTRIFUGAL DISPENSING PUMP-EXPLODED VIEW

ORD E2494

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Technical Service No.	(b) Source	(c) Maintenance Level	(d) Recoverability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
49	1		P	0		2590-627-8320	<u>GASOLINE TANK (M131A2) - Continued</u>						
49	2		P	0		2590-627-8321	<u>SEDIMENT STRAINER (Fig. 49)</u> GASKET: sediment strainer cap (7739720)----- GASKET: sediment strainer flange (8360377)-----	ea ea	1 2	* *	3 3	3 3	

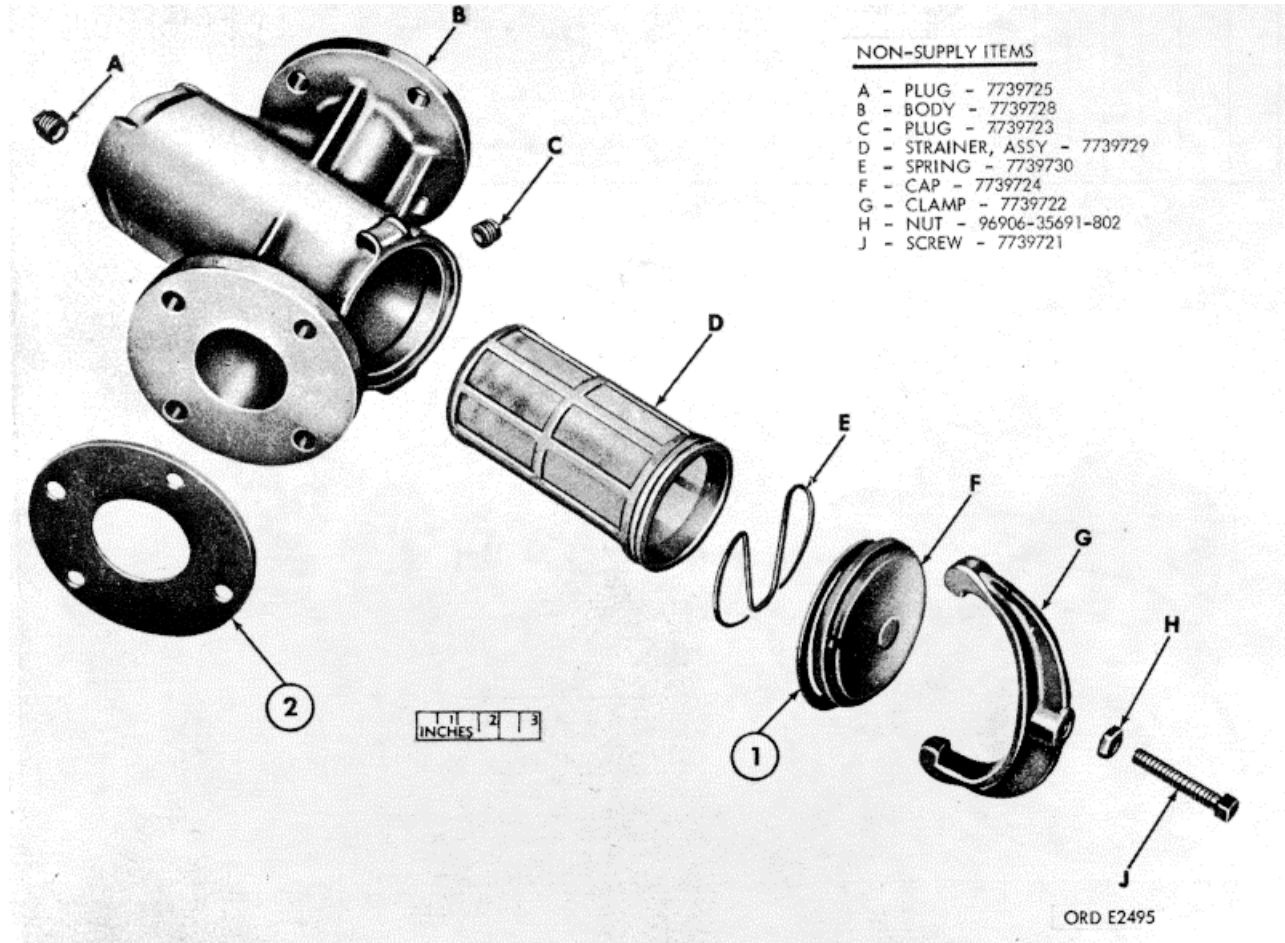


FIGURE 49. SEDIMENT STRAINER-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
50	1		P	O	R	2590-627-8318	<u>GATE VALVE (Fig. 50)</u> VALVE, GATE: discharge and shut-off (7739690)-----	ea	2		*	.1	.1
			P	O		2590-040-2423	<u>NON-ILLUSTRATED ITEMS</u> BELLOWS, RUBBER: control cable (8330296)-----	ea	4	*	*	1	1
			P	O		2590-627-8322	GASKET: emergency discharge valve (8384490)-----	ea	4		*	.8	.8
			P	O		2590-318-4318	GASKET: gate valve flange (8330883)-----	ea	2		*	.5	.5
			P	O		2590-627-8314	HOSE, ASSEMBLY, FUEL DISPENSING: (7036890)	ea	3	*	*	.1	.1
			P	F		5330-318-4325	PACKING: emergency valve shaft (12) and manifold valve stem (12) (8330902)	ea	24			2	2
			P	F		2590-627-8319	PACKING, PREFORMED: gate valve stem (3) and shut-off valve (6) (7739699)	ea	9			.8	.8
			P	O	R	2590-628-8316	VALVE, ANGLE: emergency discharge, assy (7739664)-----	ea	4		*	.1	.1
			P	O	R	2590-627-8317	VALVE, GATE: discharge (3 in.) (7739689)-----	ea	1		*	.1	.1
			P	F		5310-333-7540	WASHER: manifold valve (8330919)-----	ea	4			1	1
			P	F		2590-627-8315	WASHER, NON-METALLIC: emergency discharge valve stem end (7739659)	ea	4			.5	.5

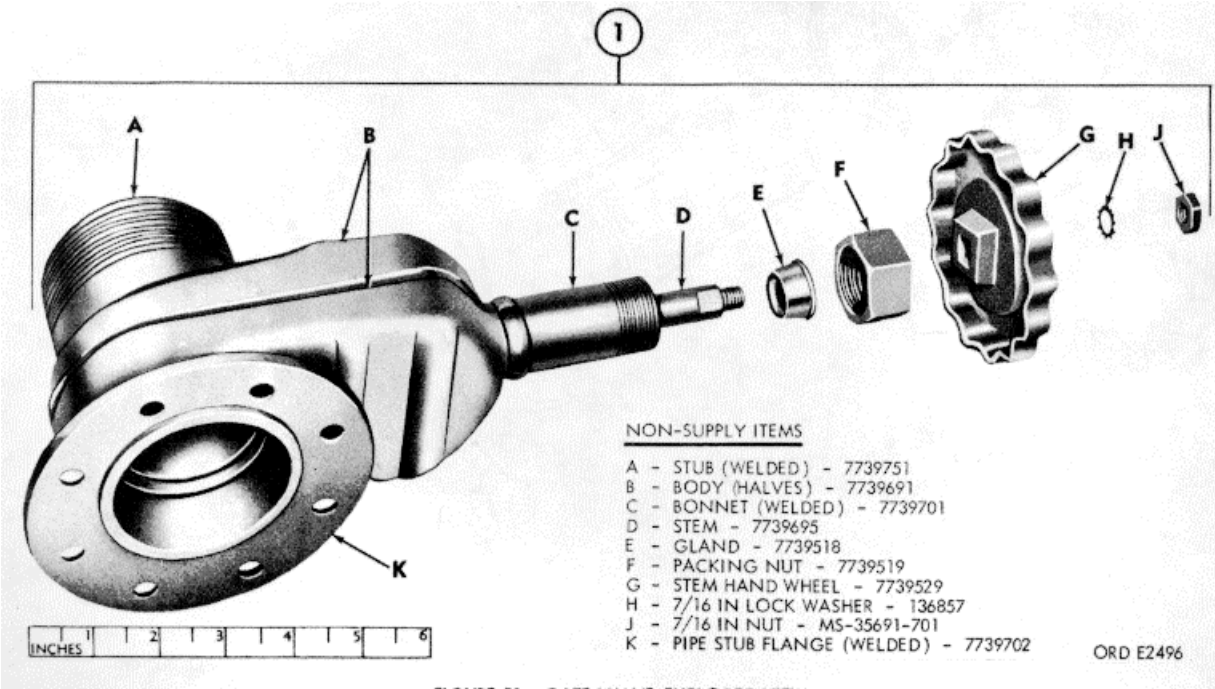
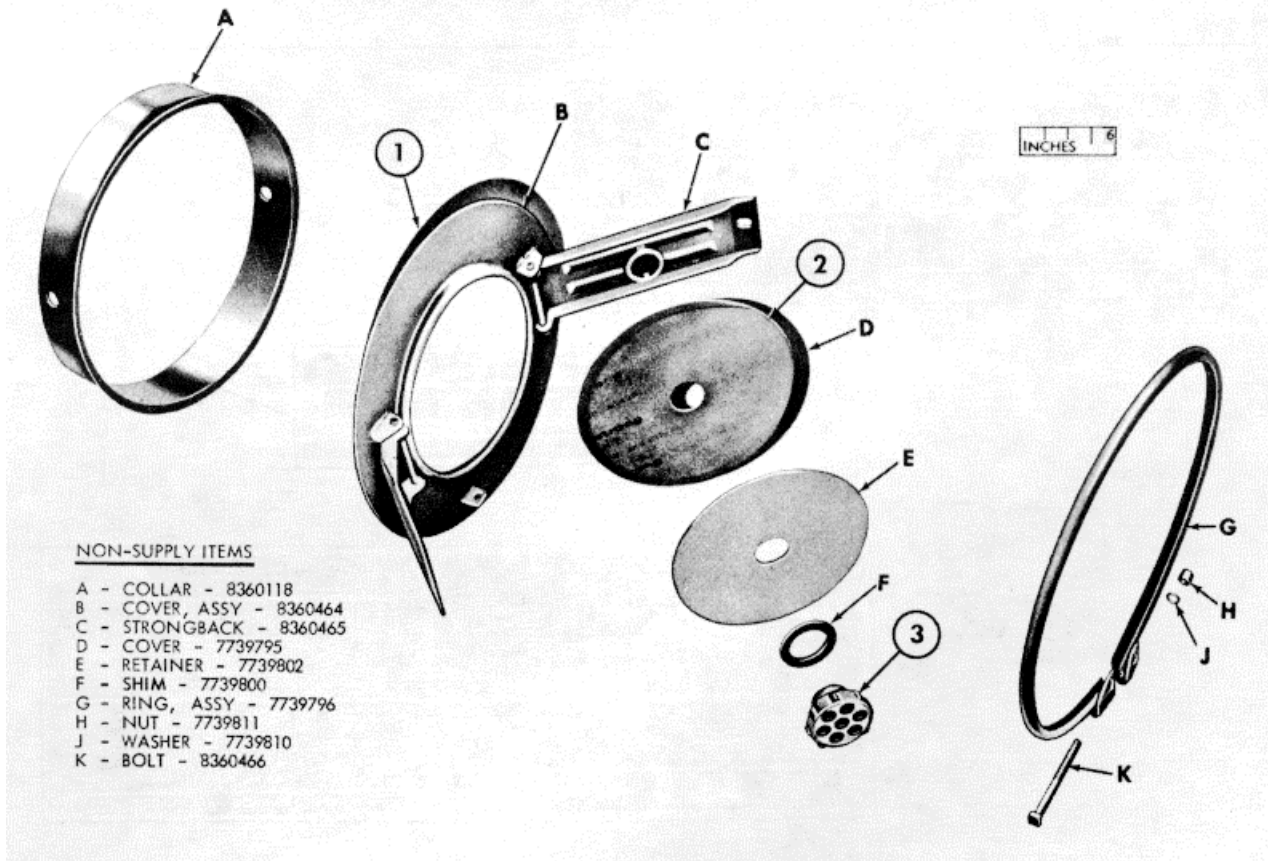


FIGURE 50. GATE VALVE-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Technical Service No.	(b) Source	(c) Maintenance Level	(d) Recoverability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>GASOLINE TANK (M131A2) - Continued</u>						
							<u>MANHOLE COVER, FILLER COVER, AND VAPOR RELIEF VALVE (Fig. 51)</u>						
51	1		P	0		2510-627-8312	GASKET: inner manhole cover (7739793)-----	ea	4	*	*	5	5
51	2		P	0		2510-610-2329	GASKET: outer manhole cover (7739801)-----	ea	4	*	*	4	4
51	3		P	0		2590-630-9929	VALVE, VENT: manhole cover, assy (7739803)-----	ea	4	*	*	1	1



ORD E2497
 FIGURE 51. MANHOLE COVER, FILLER COVER AND VAPOR RELIEF VALVE-EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
52	1		P	O		2540-318-1021	<u>MISCELLANEOUS ACCESSORIES</u>						
52	2		P	O		2590-282-7489	<u>DATA PLATES (Fig. 52)</u>						
52	3		P	O		2590-678-3470	PLATE: data (M131) (8681789)----- PLATE, INSTRUCTION: service (23705-297351)----- PLATE, IDENTIFICATION: vehicular data (Mi31A2) (8360446)	ea	1	*	*	*	*
							<u>REFLECTOR (NON-ILLUSTRATED)</u>						
			P	O		9905-202-3639	REFLECTOR: (Amber) -----	ea	4	*	*	.5	.5
			P	O		5305-013-3049	SCREW, MACHINE: rd-hd, S, cd- or zn-pltd, 1/4-20UNC- 2A x 1 (133049)	ea	8	*	*	.5	.5
			P	O		5310-012-0380	WASHER, LOCK: split, med, S, cd- or zn-pltd, 1/4 screw size (120380)	ea	8	*	*	.5	.5

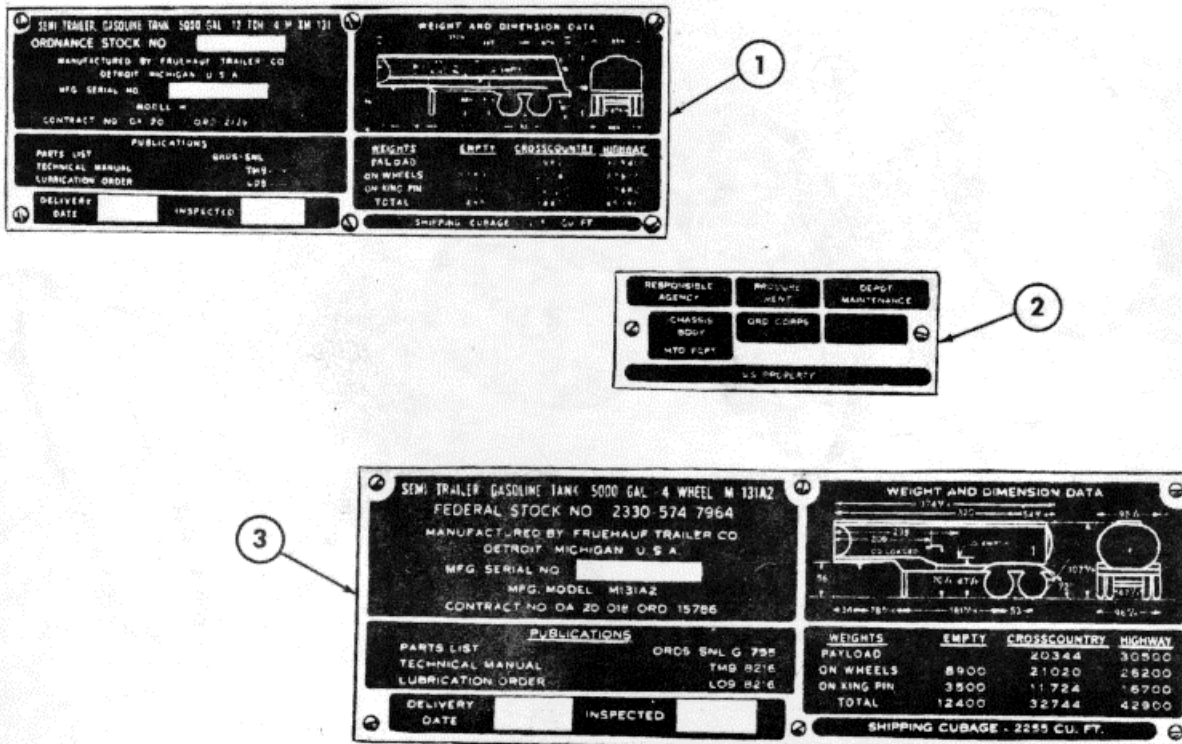


FIGURE 52. DATA PLATES.

ORD E2498

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
53	1		P	O	R	2805-699-6856	<u>AUXILIARY ENGINE (M131, M131A1)</u> <u>AUXILIARY ENGINE (fig. 53)</u> ENGINE, w/ACCESSORIES: assy (8331345)-----	ea	1	*	.1	.1	
53	2		P	O	R	2910-699-8510	Composed of: 1 GOVERNOR: variable speed (44940-1500315) 1 STARTER: hand (44940-192068) 1 TANK: fuel (44940-1590309) CARBURETOR: assy (8331445)-----	ea	1	*	*	.5	.3

(See figure 60 for exploded view)

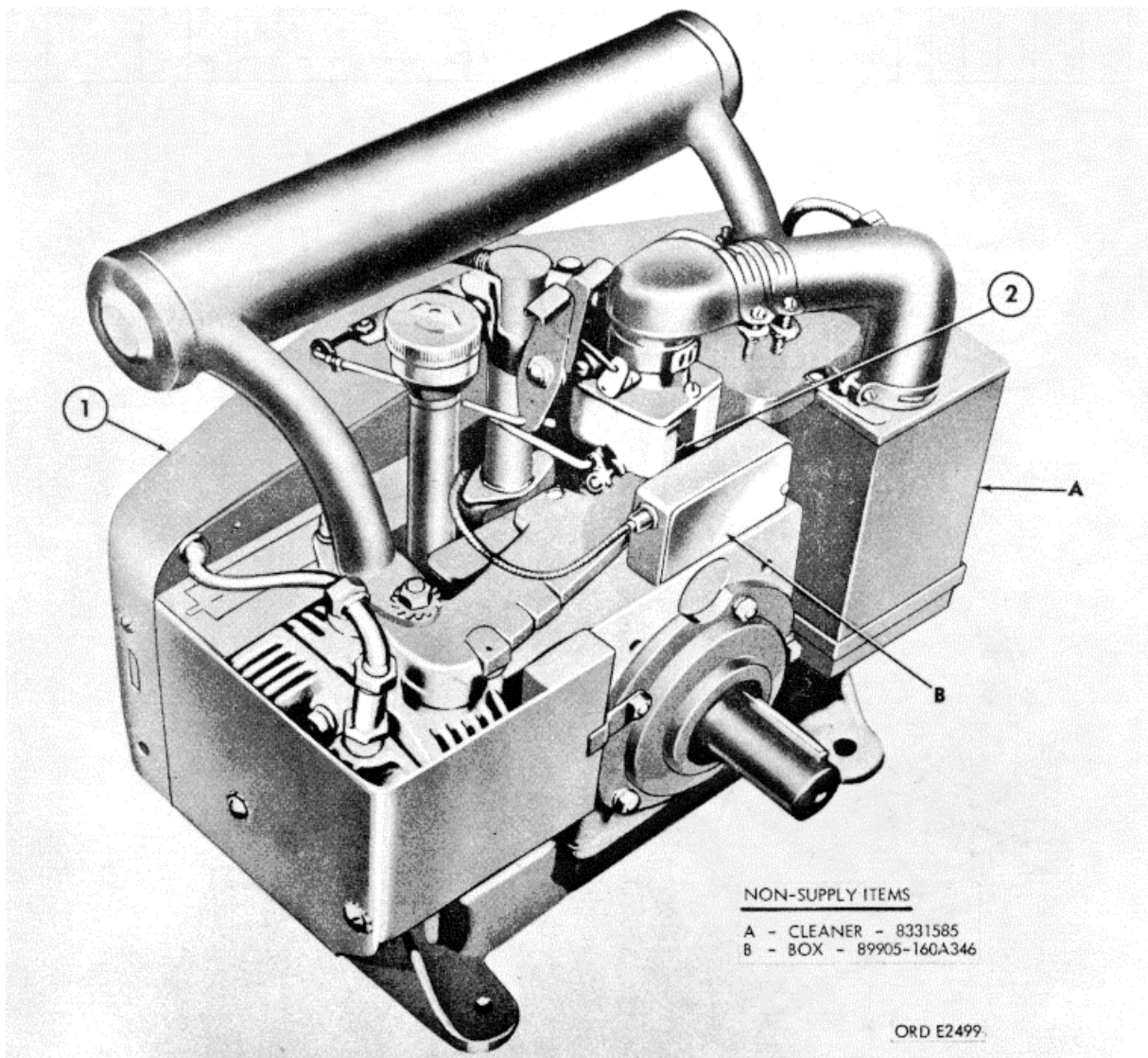


FIGURE 53. AUXILIARY ENGINE

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
54	1		P	O		2990-358-5782	<u>AUXILIARY ENGINE (M131, M131A1) - Continued</u>						
54	2		P	O		2805-532-9068	<u>EXHAUST MUFFLER, INTAKE MANIFOLD, AND EXHAUST PIPE (Fig. 54)</u>	ea	1	*	*	.3	
							MUFFLER: exhaust (8331617)-----	ea	2	*	*	1	
							GASKET: exhaust manifold (**GASKET SET 2805-569-8948) (8331442)					1	
							<u>NON-ILLUSTRATED ITEMS</u>						
			P	O		2920-335-4700	ARRESTOR: spark, exhaust (8330922)-----	ea	1	*	*	.3	
			P	O		2805-699-6885	GASKET: intake manifold (**GASKET SET 2805-569-8948 and 2805-358-2699) (8331443)	ea	2	*	*	1	
			P	O		5307-699-6886	STUD: mounting, intake manifold (8331444)-----	ea	2	*	*	.5	

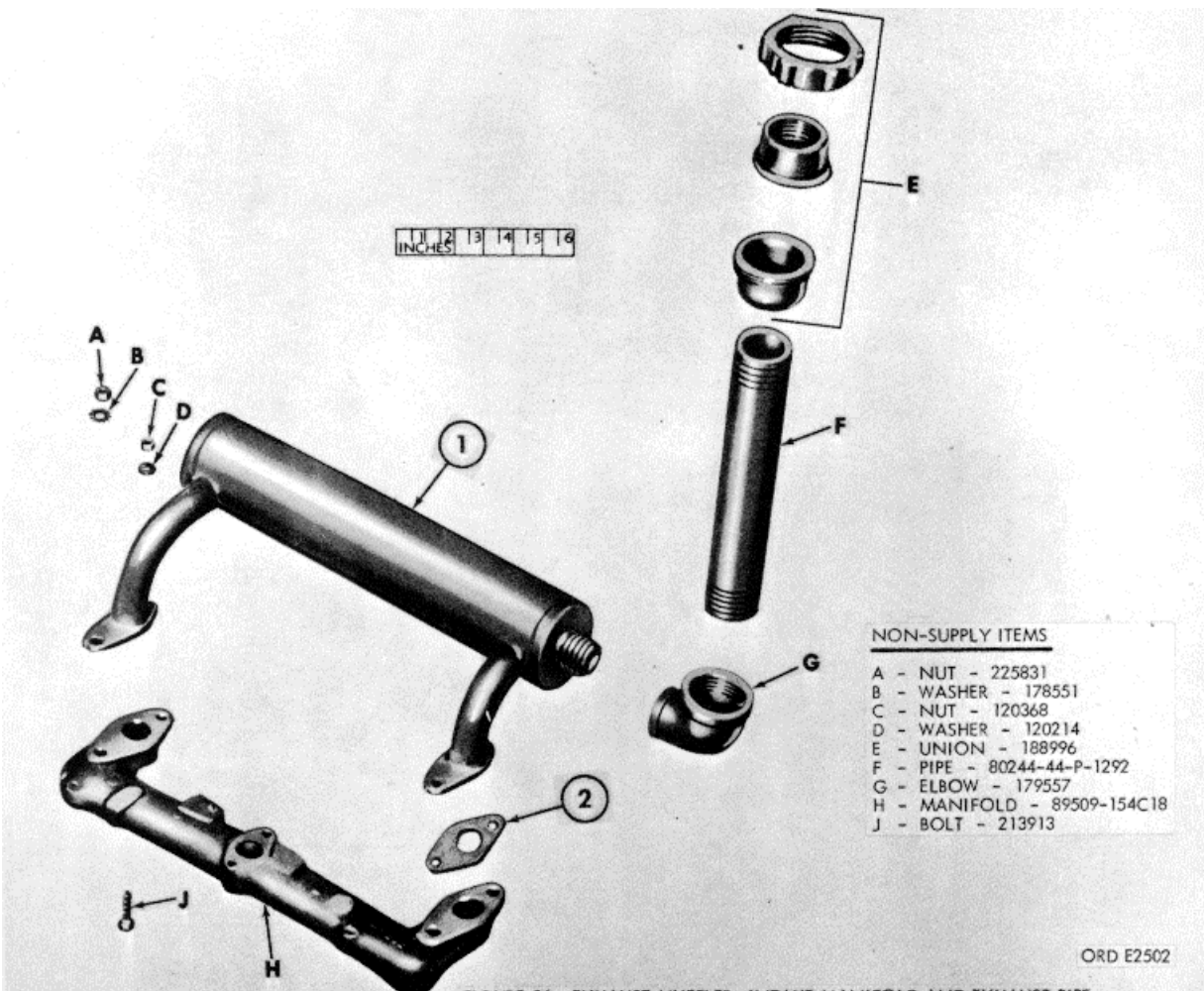


FIGURE 54. EXHAUST MUFFLER, INTAKE MANIFOLD AND EXHAUST PIPE.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1)- Continued</u>						
							<u>AIR CLEANER, HOSE, AND RELATED PARTS (Fig. 55)</u>						
55	1		P	0		2805-586-7689	CAP: breather tube engine (8331422)-----	ea	1	*	*	.1	.1
55	2		P	F		2910-699-8512	INLET: air (8331449)-----	ea	1	*	*	.1	.1
55	3		P	0		4720-696-0354	HOSE: air cleaner (8331586)-----	ea	1	*	*	.3	.3
55	4		P	0		2940-358-5334	SCREEN: air cleaner (8331587)-----	ea	1	*	*	.3	.3

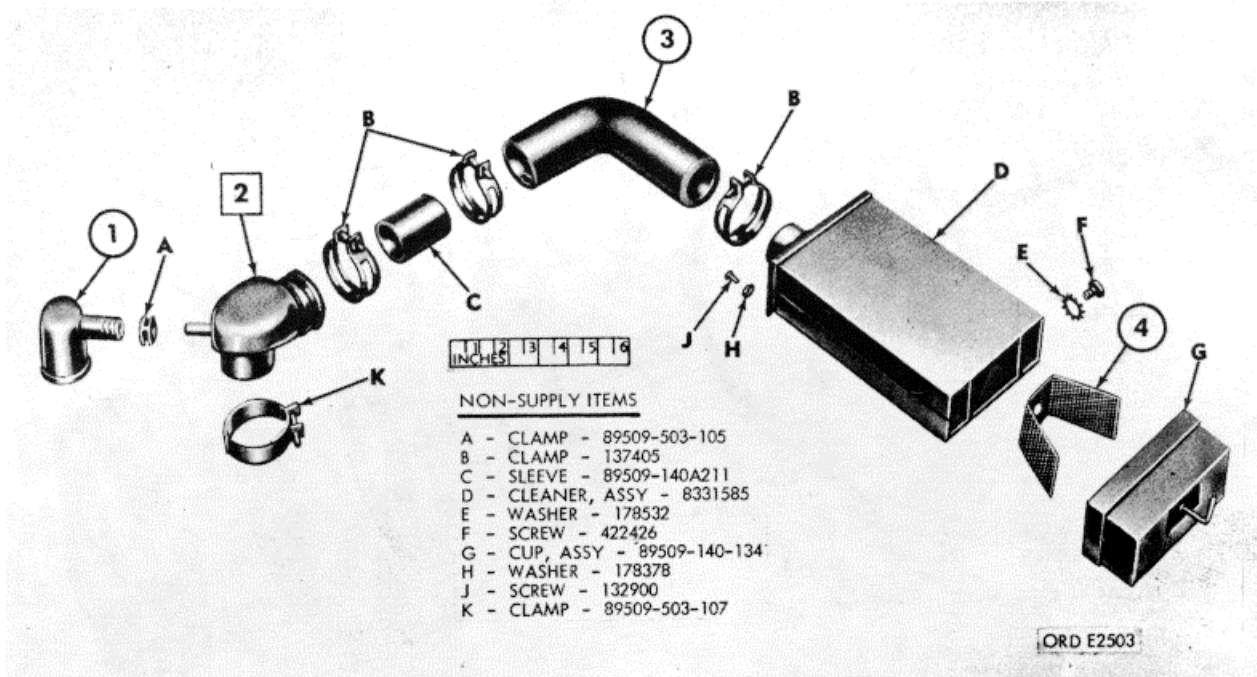


FIGURE 55. AIR CLEANER, HOSE, AND RELATED PARTS.
59

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Technical Service No.	(b) Source	(c) Maintenance Level	(d) Recoverability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1)- Continued</u>						
							<u>ROPE-PULL STARTER (Fig. 56)</u>						
56	1		P	O		2990-699-8509	WHEEL: ratchet (8331441)	ea	1	*	.5	.5	
56	2		P	O		2990-338-1916	ROPE: w/GRIP, assy (8331437)	ea	1	*	.3	.3	
56	3		P	O		2990-699-8508	SPRING: recoil (8331440)	ea	1	*	.2	.2	
56	4		P	O		2990-699-8502	BEARING: bushing type, rope sheave (8331431)	ea	1	*	.3	.3	
56	5		P	O		2990-699-8507	SPRING: pawl (8331439)	ea	2	*	.3	.3	
56	6		P	O		2990-699-8504	COGWHEEL w/SCREW, assy (8331433)	ea	1	*	.5	.5	

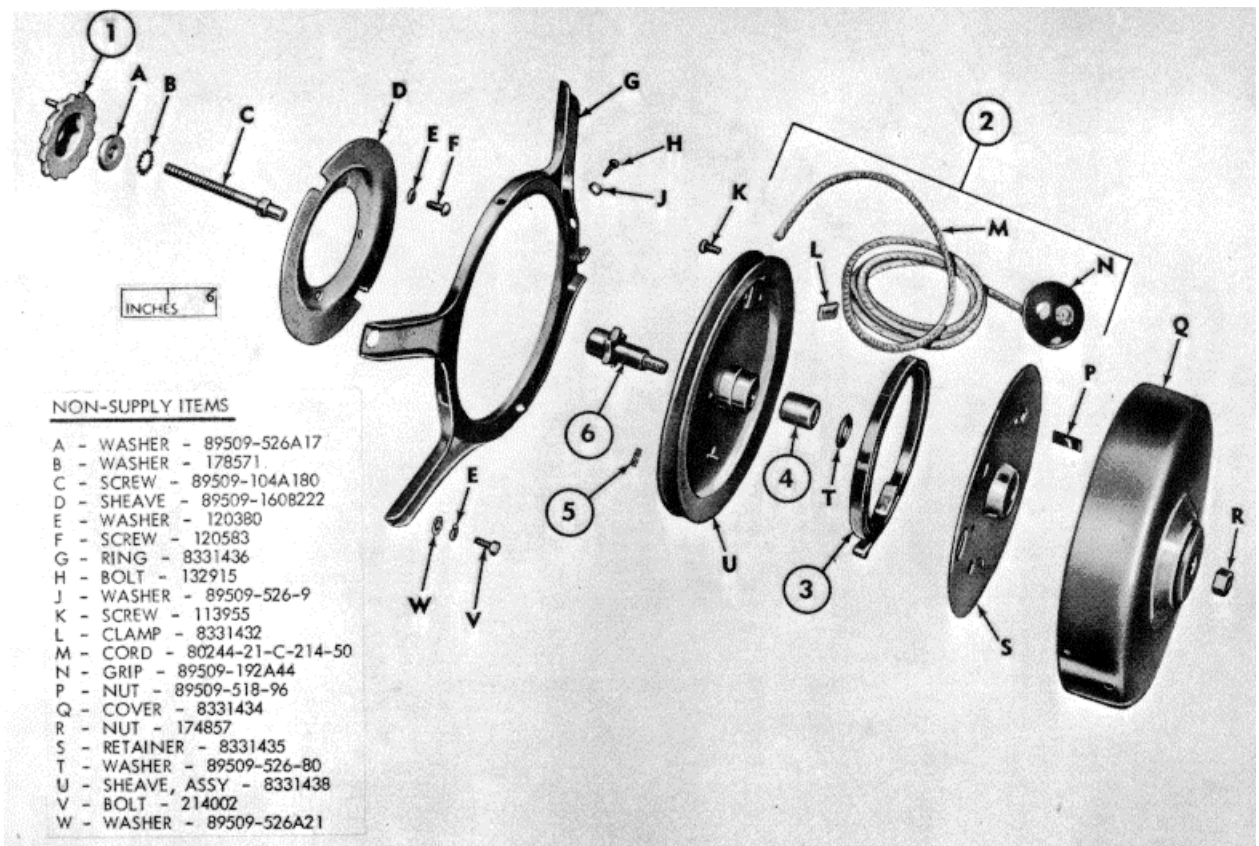


FIGURE 56. ROPE-PULL STARTER EXPLODED VIEW.

ORD E2504

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erabil- ity					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
							<u>AUXILIARY ENGINE (M131, M131A1) - Continued</u> <u>STARTER HOUSING, OIL PRESSURE GAGE, AND</u> <u>STOP BUTTON (Fig. 57)</u>						
57	1		P	0		2930-699-8501	LINE: flexible, oil pressure gage (8331429)-----	ea	1		*	.5	.5
57	2		P	0		6620-515-3483	GAGE: oil pressure (418471)-----	ea	1		*	.2	.2
57	3		P	0		2590-569-8954	BUTTON: stop, assy (8331619)-----	ea	1		*	.3	.3

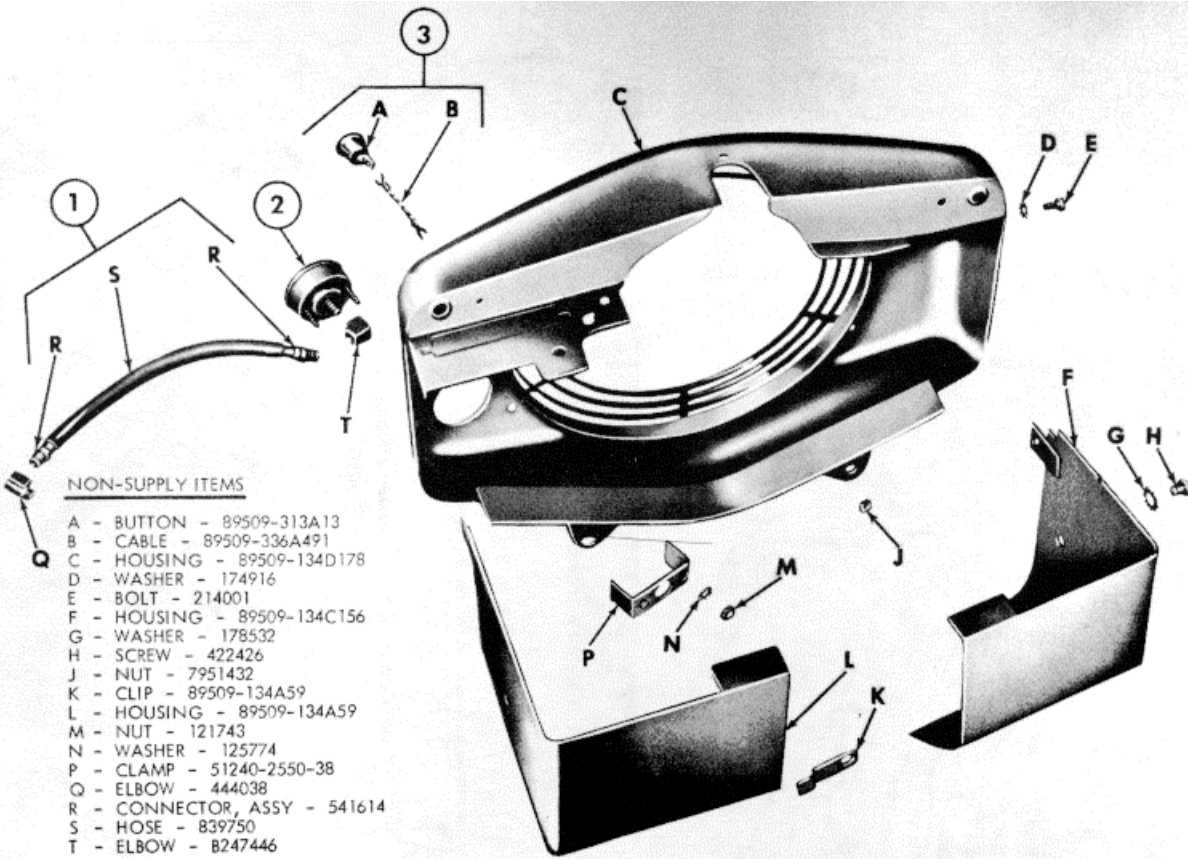


FIGURE 57. STARTER HOUSING OIL PRESSURE GAGE AND STOP BUTTON

ORD E2505

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1) - Continued</u>						
							<u>FUEL TANK, FUEL FILTER, AND RELATED PARTS (Fig. 58)</u>						
58	1		P	O		2940-416-9451	FILTER: fuel tank (7089773)-----	ea	1	*	*	.3	.3
58	2		P	O		5330-358-4786	GASKET: fuel filter (7744707)-----	ea	1	*	*	.3	.3
58	3		P	O		5340-505-6233	CLIP: safety, 5, 3/4 overall 1g (7975294)-----	e	1	*	*	.1	.1
58	4		P	O		2910-354-3147	CAP: fuel tank, assy (8331588)-----	ea	1	*	*	.5	.5
							<u>NON-ILLUSTRATED ITEM</u>						
			P	O		5340-321-6428	PLUG: Fusible, 2 in (tank) (8330923)-----	ea	3	*	*	.1	.1

NON-SUPPLY ITEMS

- A - BAIL - 7037366
- B - WHEEL AND CUP, ASSY - 7039422
- C - BOWL - 7039966
- D - SCREEN - 8360475
- E - COVER - 8679994
- F - VALVE, ASSY - 7039134
- G - SCREW - 101996
- H - SCREW - 106319
- J - BLOCK - 8681783
- K - TANK - 8331589
- L - BRACKET - 81118-CA157851
- M - STRAP - 8681794
- N - NUT - 114380
- P - WASHER - 103322
- Q - NIPPLE - 142868
- R - CONNECTOR - 137405

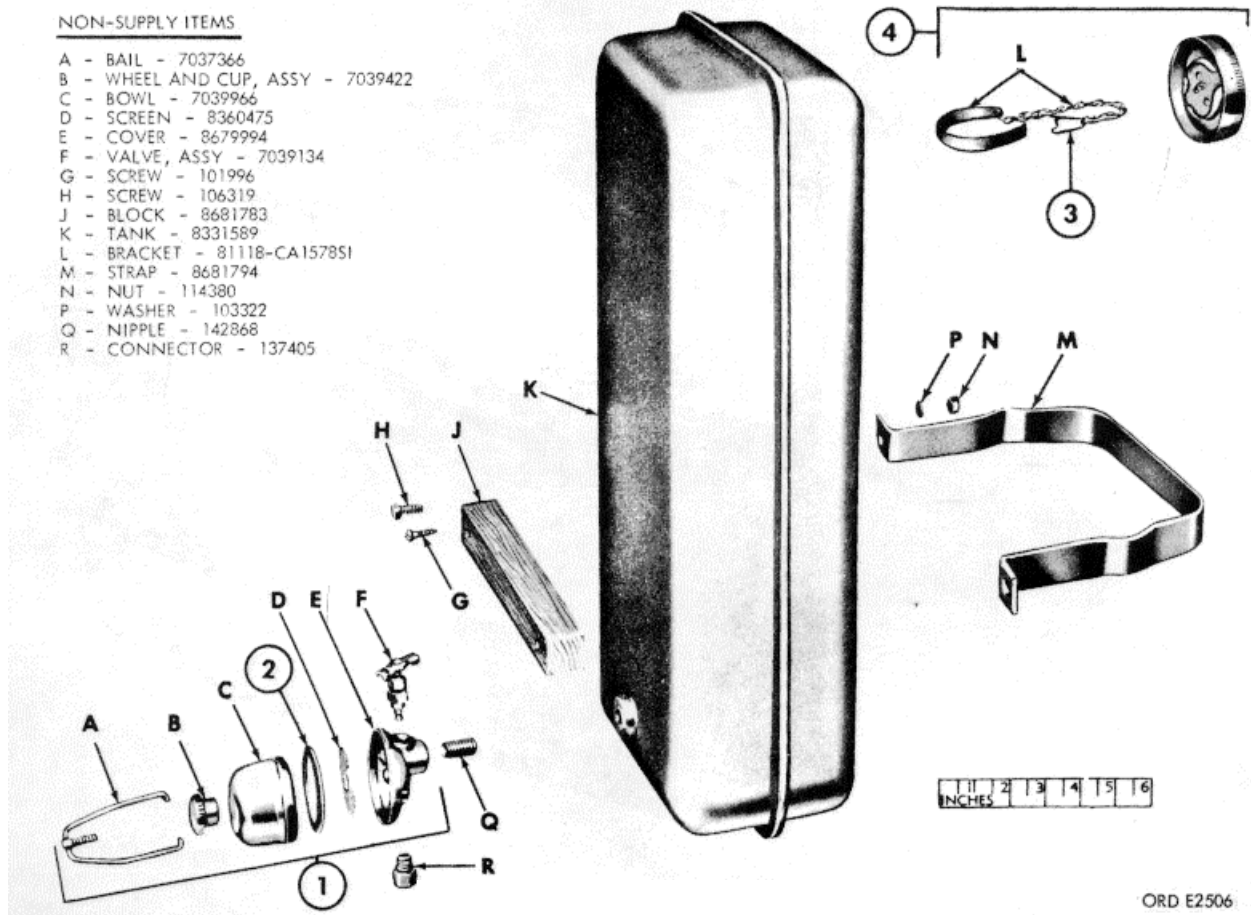


FIGURE 58. FUEL TANK, FUEL FILTER AND RELATED PARTS.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
59	1		P	O	R	2910-537-2218	AUXILIARY ENGINE (M131, M131A1) - CANTINUED	EA	1				
59	2		P	O		473335-2577	FUEL PUMP AND ATTACHING PARTS (FIG. 63)	EA	1	*	.5	.3	
59	3		P	F		2910-306-5343	PUMP: FUEL, ASSY (8331582)----- ELBOW: INVERTED MALE, FUEL LINE (8331578) -----+--- KIT: REPAIR, FUEL PUMP (8331580)----- COMPOSED OF: 2 VALVE ASSEMBLY: (44940-149-96) 2 GASKET: RETAINER SPACER (44940-149A159) 2 GASKET: VALVE (44940-149A95) 1 DIAPHRAGM: (44940-149A97). 1 SPRING: DIAPHRAGM (44940-149-93) 1 SPRING: ROCKER ARM (44940-149-96) 3 GASKET: MOUNTING (44940T49A3) - 1 GASKET: VALVE RETAINER (44940-149-207)(NON-ILLUSTRATED) 2 SPRING: VALVE (44940-149-204) (NON-ILLUSTRATED) 2 VALVE: (44940-149-209) (NON-ILLUSTRATED) GASKET: FLANGE (**GASKET SET 2805-569-8948) (8331579)-- GASKET: FLANGE, FUEL PUMP (**GASKET SET 2805-569-8948 AND 2805-358-2699) (8331579) SHAFT: ROCKER ARM (8331583)----- LINK: ROCKER ARM (8331581)---- F I 3----- SPACER: FUEL PUMP (8331584)-----	EA	1				
59	3.1												
59	3.2												
59	3.3												
59	3.4												
59	3.5												
59	3.6												
59	3.7												
59	3.7		P	O		2910-699-8514		EA	2	*	.5	.5	
59	3.7		P	O		2910-699-8514		EA	2	*	.5	.6	
59	4		P	F		2910-358-5070		EA	1			.1 .1	
59	5		P	F		2910-358-4904		EA	1			.1 .1	
59	6		P	O		2910-358-5357		EA	1	*			
.1	.1												
59	7		P	O		4730-327-8765	ADAPTER, STRAIGHT, PIPE TO TUBE: INVERTED FLARED, BR, 1/8NPTF MALE PIPE END, 1/4 OD TUBE END (FUEL LINE TO PUMP (137405)	EA	1	*	*	.1	

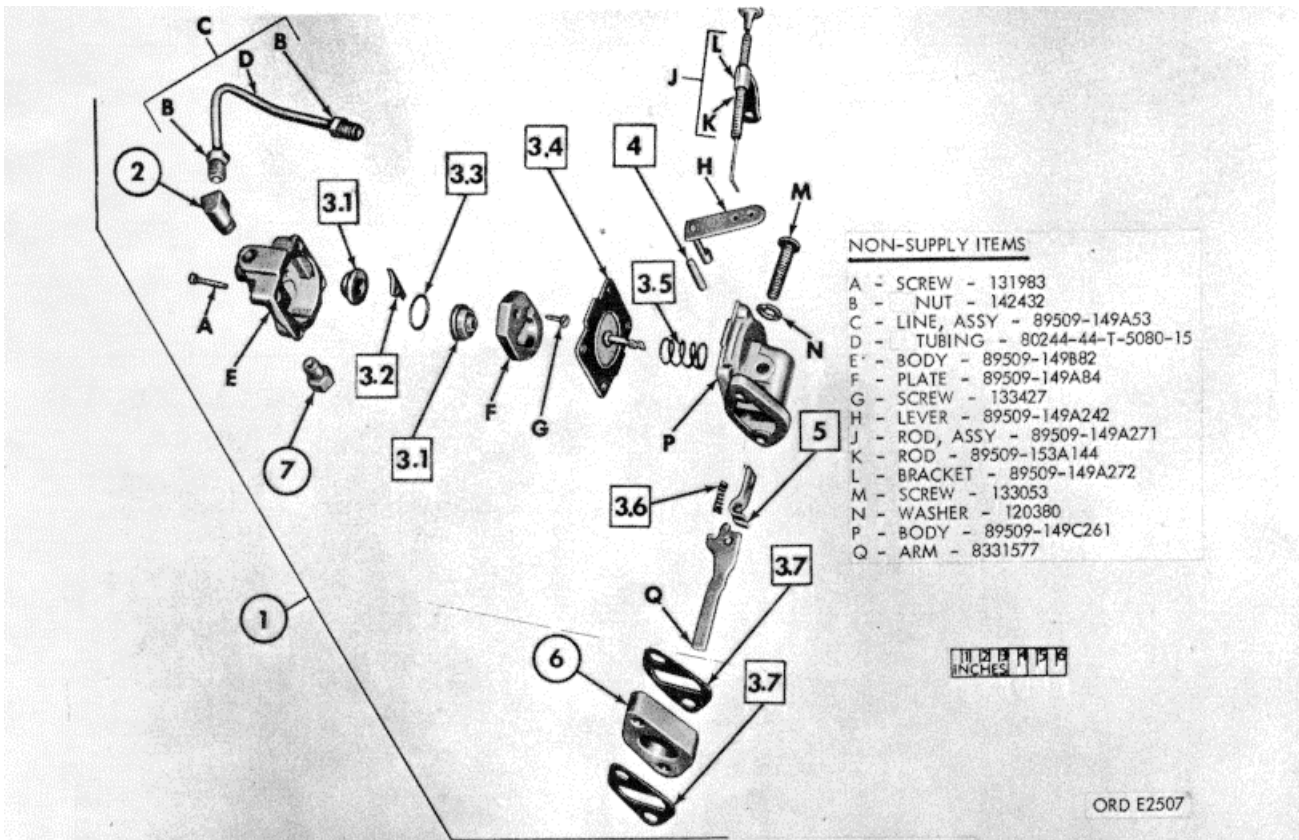


FIGURE 59. FUEL PUMP AND ATTACHING PARTS - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
60	1					2910-699-8510	<u>AUXILIARY ENGINE (M131, M131A1) - Continued</u>						
60	2		P	F		2910-354-3139	<u>CARBURETOR ASSEMBLY (Fig. 60)</u>	ea	1		.1	.1	
60	3		P	F			CARBURETOR: (See item 2, fig. 53 for requisitioning data) FLOAT: assy (8331446)----- GASKET SET: carburetor (**KIT 2910-699-8513) (60-K-799)-- Composed of: 2 GASKET: float needle valve seat (44940-148A17) 1 GASKET: bowl (*) (8331448) 1 GASKET: nozzle (142-32) GASKET: bowl (**GASKET SET 60-K-799) (8331448)----- SHAFT: float (**KIT 2910-699-8513) (8331576)----- ADAPTER, STRAIGHT, PIPE TO TUBE: inverted flare, br, 1/8- NPTF male pipe end, 1/4 od tube end (137405)	ea	1		.5	.5	
60	3.1												
60	3.2					2910-396-1526		ea	1		.8	.8	
60	3.3					5315-291-2530		ea	1		.1	.1	
60	3.2	P	F	F		4730-277-8765		ea	1	*	.1	.1	
60	4		P	F			<u>NON-ILLUSTRATED ITEMS</u>	ea	*		.5	.5	
60	5		P	F			GASKET: flange (**SGASKET SET 2805-569-8948) (8331447)-- KIT: repair (8331575)-----	ea	1		.5	.5	
							Composed of: 1 GASKET SET: carburetor (*) (44940-142-33) 1 NEEDLE: idle (44940-142-40) 1 NEEDLE: main metering jet (44940-41) 2 SCREW: choke fly (44940-142-28) 1 SHAFT: float (44940-142-39) 1 SHAFT: throttle (44940-142A304) 1 VALVE: fuel (44940-142-49)						

NON-SUPPLY ITEMS

- A - PIN - 80669-71-39
- B - JET, ASSY - 80244-60-J-1850
- C - RETAINER - 80669-55-285
- D - PACKING - 80669-44-51
- E - RETAINER - 80669-55-286
- F - JET - 80669-49-332
- G - SPRING - 80669-24A136
- H - VALVE - 80669-43-129
- J - SHAFT, ASSY - 8331613
- K - VALVE - 80669-34-50
- L - SEAT - 80669-36-257

- M - VALVE, ASSY - 80244-60-V-1500
- N - COVER - 80669-102-588
- P - PLUG - 103883
- Q - SHAFT - 8331612
- R - PLATE - 80669-27-555
- S - SCREW - 80669-15A47
- T - SCREW - 80669-15A50
- U - NOZZLE - 80669-47-714
- V - BODY - 80669-10-3259
- W - GASKET - 8331426
- X - PLATE - 80669-13-861
- Y - SCREW - 117646

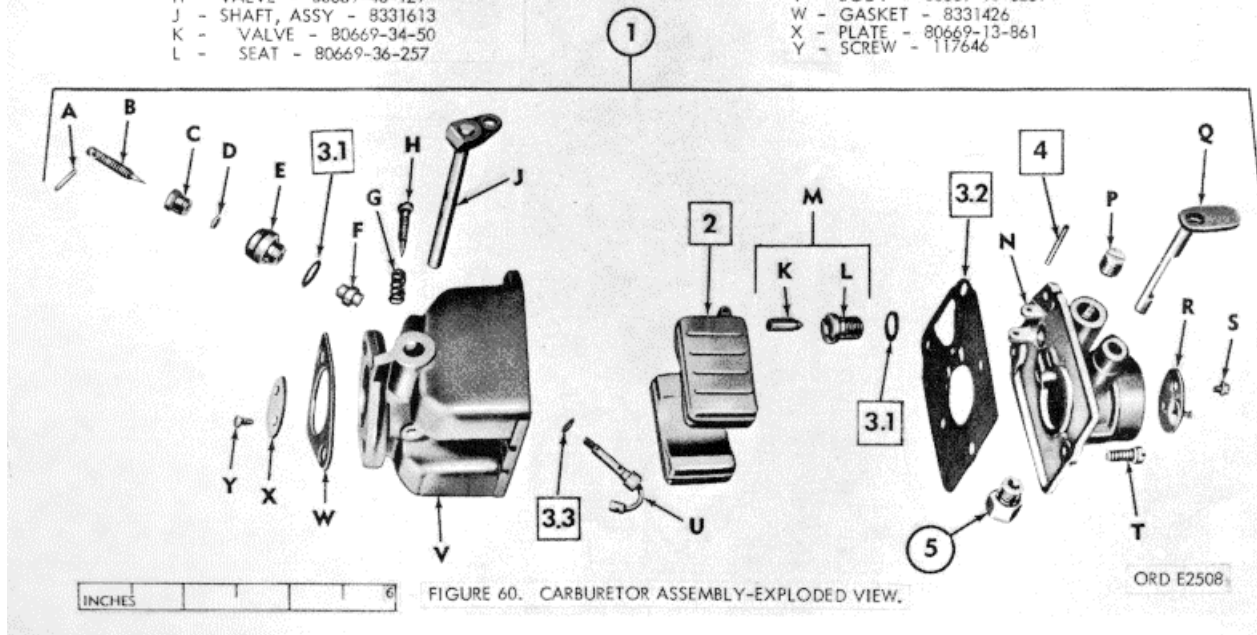


FIGURE 60. CARBURETOR ASSEMBLY - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1) - Continued</u>						
							<u>GOVERNOR ARM, CHOKE, AND VARIABLE SPEED</u>						
							<u>CONTROLS AND LINKAGE (Fig. 61)</u>						
61	1		P	O		2990-696-0357	SPRING: govermor (8331605) -----	ea	1	*	*	.3	.3
.3													
61	2		P	O		2990-696-0358	STUD: adjusting (8331607)-----	ea		*		*	
.2													
61	3		P	O	R	2910-699-8510	CARBURETOR: assy (8331445) (see fig. 62)-----	ea	1		*	*	
.5													
61	4		P	O		2910-358-4952	LINK: arm to carburetor (8331597) -----	ea	1				.1
.1													
61	5		P	O		2990-429-2568	JOINT: ball, linkage (8331596) -----	ea	*			.2	.2
							NON-ILLUSTRATED ITEMS						
.3	.3		P	O		2540-696-0359	CLIP: throttle rod, end (8331609) - - - - -	ea	1	*		*	
.1													
			P	O		5340-264-7690	RING, RETAINING: exter, S, 3/16 shaft dia (yoke) (587551) -	ea	1		*	*	.1
			P	O		5305-364-7177	SCREW: adjusting (8331611) -----	ea	1	*	*	.3	.3
			P	O		5305-364-7177	SCREW: adjusting, throttle (8331611) -----	ea	1	*	*	*	.1
			P	O		2990-574-8358	SHAFT: upper bearing (**GASKET SET 2805-569-8948) (8331602)	ea	1	*	*	.5	.5
			P	O		2510-693-0750	STUD: w/CLIP, assy (8331614) -----	ea	1	*	*	.1	.1
			P	O		2540-693-0751	THROTTLE: hand, ossy (8331616)-----	ea	1	*	*	.1	.1
			P	O		5310-358-5016	NUT, PLAIN, KNURLED: speed adjusting stud (8331598) ---	ea	1	*	*	.2	.2

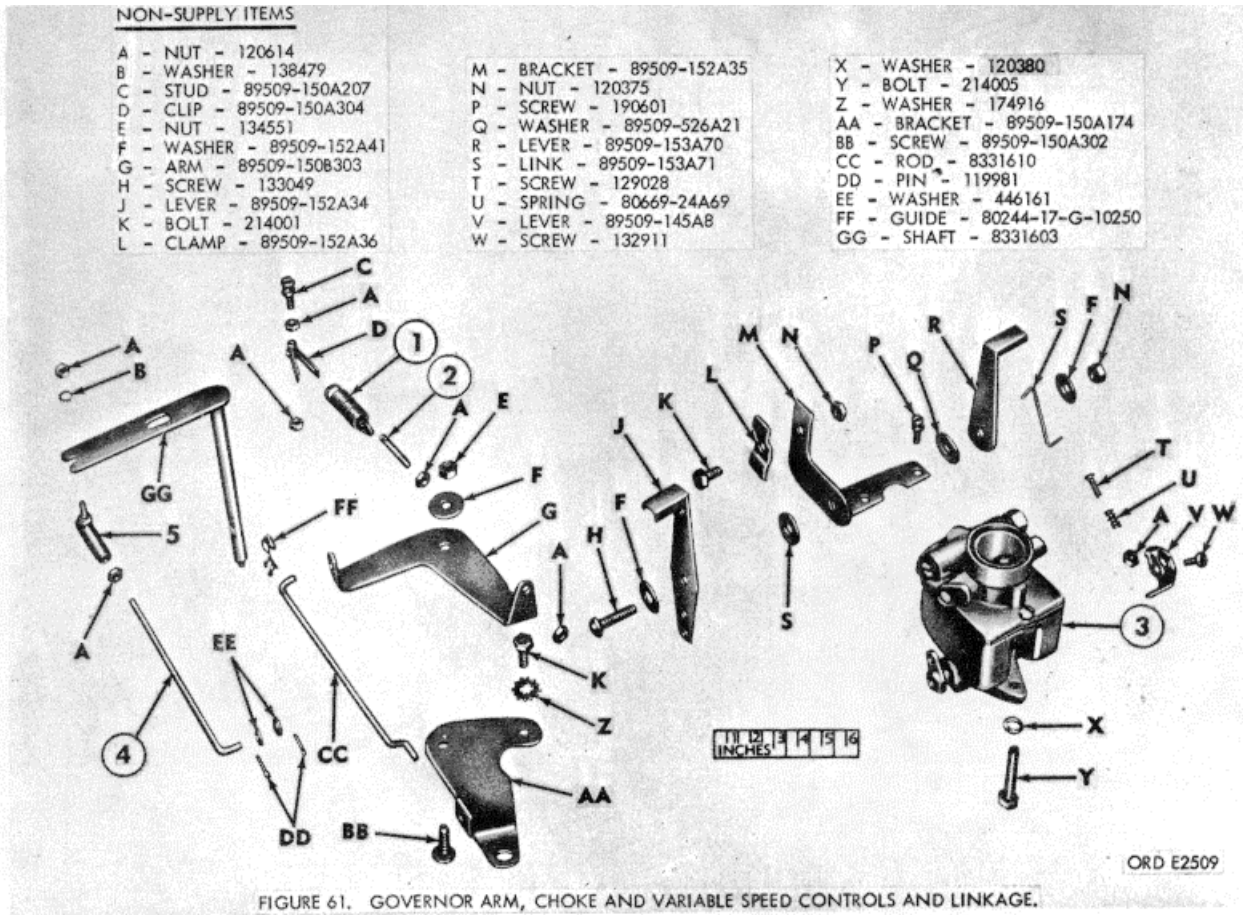


FIGURE 61. GOVERNOR ARM, CHOKE AND VARIABLE SPEED CONTROLS AND LINKAGE.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
62	1		P	F		2805-358-3119	<u>AUXILIARY ENGINE (M131, M131A1) - CONTINUED</u>	ea	1				
62	2		P	F		2805-358-2369	<u>OIL PUMP AND ATTACHING PARTS (FIG. 62)</u>	ea	1		.5	.5	
62	3		P	F		2805-358-2668	PUMP: oil, assy (8331418)----- CUP: oil intake, assy (8331416)----- GASKET: mounting, oil pump (8331417)-----	ea	1		.1	.1	
.5							NON-ILLUSTRATED ITEM						
		P	H		2805-699-6878		SPRING: PLUNGER (8331415)-----	EA	1			5	

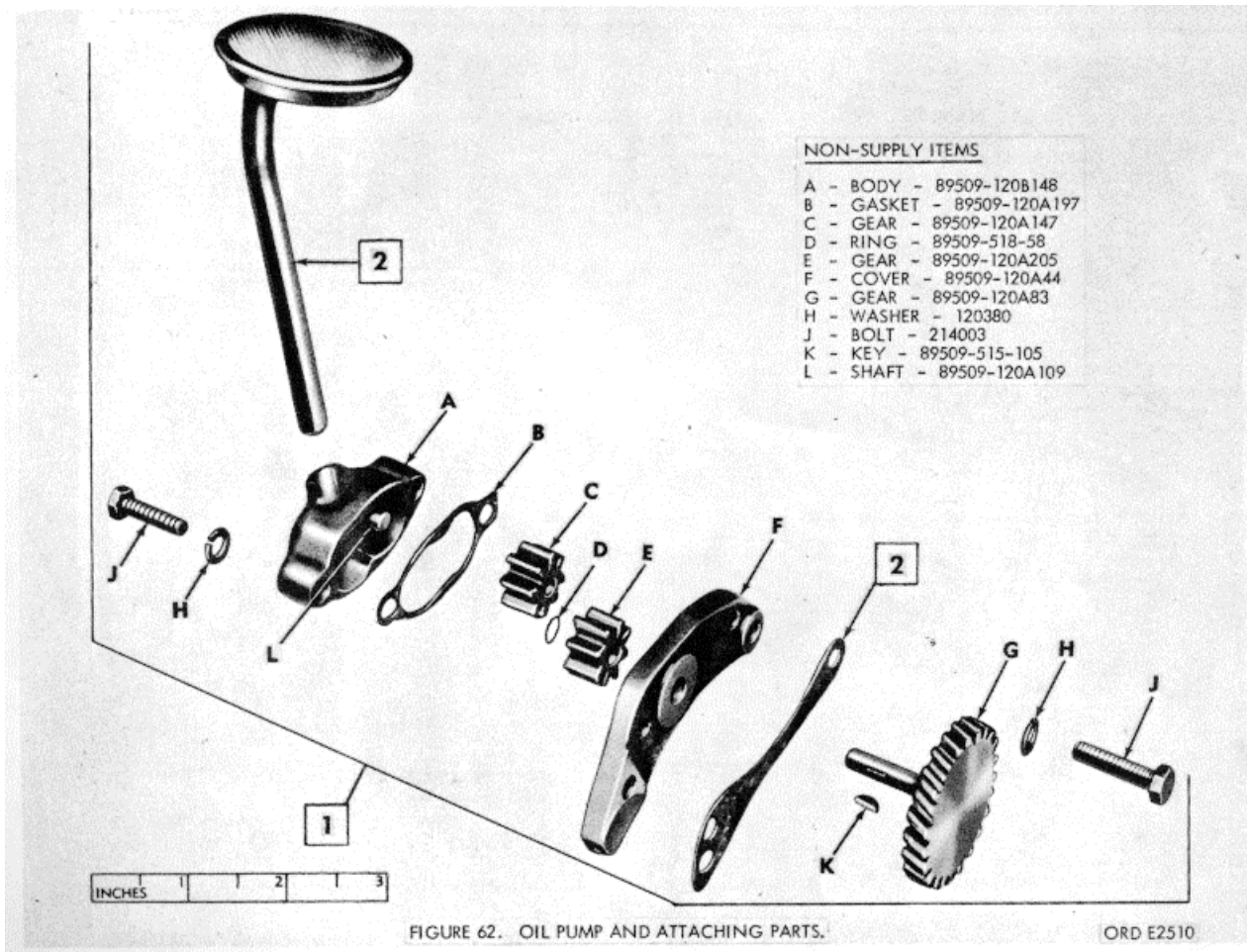


FIGURE 62. OIL PUMP AND ATTACHING PARTS.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS				
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erability					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1) - CONTINUED</u> <u>IGNITION COILS, CABLES, AND SPARK PLUG (FIG. 63)</u>							
63	1		P	O		2920-569-8953	BLOCK: TERMINAL, BREAKER BOX (8331618)-----	EA	1	*	*	.1	.1	
63	2		P	O		5340-693-0752	CLAMP, IGNITION COIL AUXILIARY (8331626)-----	EA	2	*	*	.1	.1	
63	3		P	O	R	2910-338-1939	COIL, IGNITION: (8331646)-----	EA	2	*	*	.5	.3	
63	4		P	F		2920-569-8960	STATOR: MAGNETO, ASSY (8331625)-----	EA	1			.3	.3	
63	5		P	O		2920-569-8961	SLEEVE: RUBBER, COIL LEAD (83316.27)-----	EA	1	*	*	.1	.1	
63	6		P	O	S	2920-569-8964	PLUG: SPARK (8331648)-----	EA	2	*	*	2.4	1.5	

NON-SUPPLY ITEMS

- A - NUT - 112432
- B - WASHER - 116089
- C - WASHER - 138479
- D - WASHER - 502244
- E - WASHER - 89509-508-17
- F - BRACKET - 89509-332A376
- G - SCREW - 132900
- H - WASHER - 89509-508-16
- J - SCREW - 132911
- K - SCREW - 89509-332A284
- L - CABLE, ASSY - 89509-336A670
- M - CABLE, ASSY - 89509-167A1175

- N - NIPPLE - 77540-RJ-066425
- P - NUT - 120375
- Q - WASHER - 120423
- R - SCREW - 133049
- S - SCREW - 133053
- T - WASHER - 120380
- U - CABLE, ASSY - 89509-336A521
- V - CLIP, ASSY - 89509-332A273
- W - GASKET - 94336-A5-9
- X - CABLE, ASSY - 89509-167A1174
- Y - CABLE - 89509-336A500
- Z - WASHER - 178378
- AA - CABLE - 89509-336A530
- BB - CABLE - 89509-336A481
- CC - WASHER - 121801

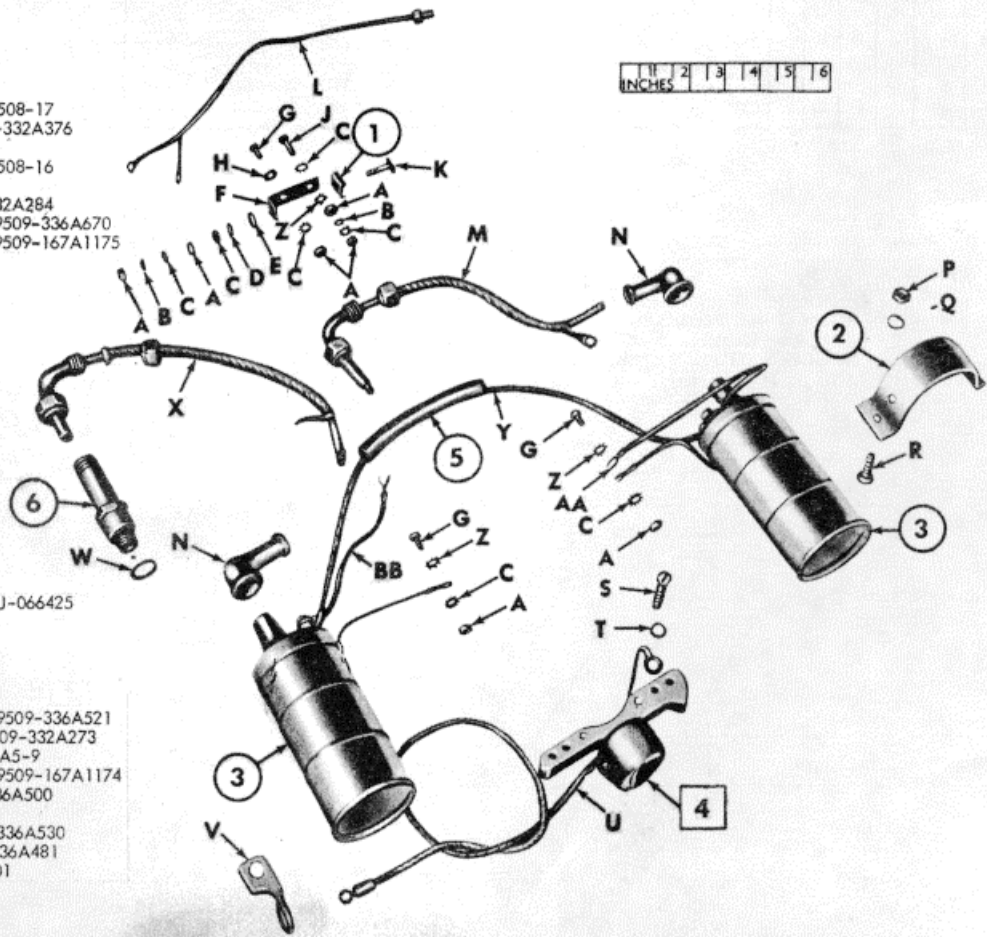


FIGURE 63. IGNITION COILS, CABLES AND SPARK PLUG

ORD E2511

FIGURE 63. IGNITION COILS, CABLES, AND SPARK PLUG.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1) - CONTINUED</u> <u>IGNITION BREAKER BOX AND</u> <u>ATTACHING PARTS (FIG. 64)</u>						
64	1		P	F		2920-342-0674	GASKET: BREAKER PLATE COVER (R* GASKET SET 2805-569-8948) (8331621)	EA	1		5	5	
64	2		P	0		2920-569-8958	POINT SET, IGNITION: (8331623)-----	EA	1	*	6	4	
64	3		P	F		2920-569-8955	GASKET: BREAKER PLATE (** GASKET SET 2805-569-8948) (8331620)	EA	1		5	5	
64	4		P	0		2920-569-8959	SHAFT: PIVOT, BREAKER ARM (8331624)-----	EA	1	*	1	1	
64	5		P	F		2920-569-8957	PLUNGER: BREAKER, ASSY (8331622)---	EA	1		1	1	
64	6		P	0		5310-569-8963	CAPACITOR: IGNITION (8331647)-----	EA	1	*	5	5	

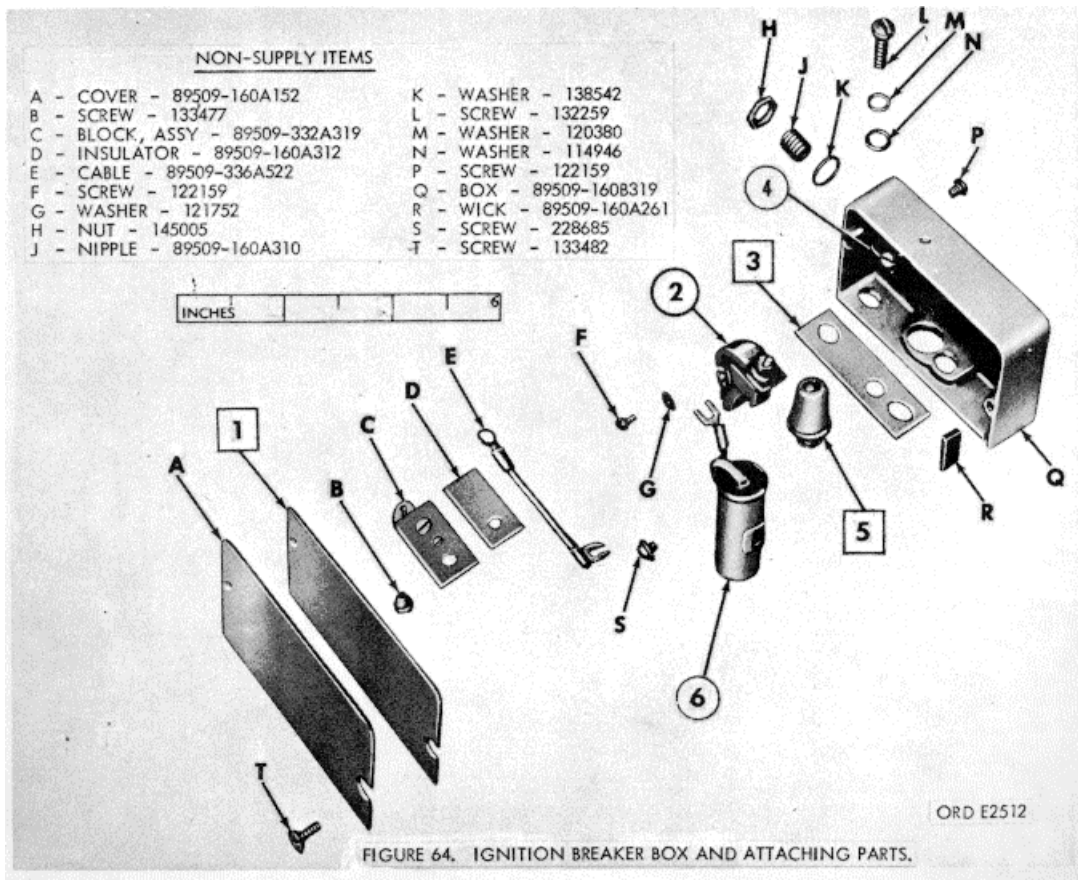


FIGURE 64. IGNITION BREAKER BOX AND ATTACHING PARTS.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- ten- ance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
65	1		P	H		5340-358-3343	<u>AUXILIARY ENGINE (M131, M131A1) - Continued</u> <u>CRANKSHAFT, FLYWHEEL, PISTON, AND RINGS (Fig. 65)</u>						
65	2		P	H		2805-695-7236	RING, RETAINER: gear (8331359)-----	ea	1			5	
65	3		X2	H		2805-699-6858	WASHER: retaining, gear (8331361)-----	ea	1			2	
65	4		P	H		2805-358-3341	CRANKSHAFT: engine (8331353)-----	ea	1			*	
65	5		P	H		2805-358-3342	ROD, CONNECTING: (8331369)-----	ea	2			1	
65	5.1						RING SET: piston (standard) (8331367)-----	ea	2			1	
65	5.2						Composed of:						
65	5		P	H		2805-699-6867	2 RING: compression (44940-113A7)						
65	5.1						1 RING: oil (44940-113A8)						
65	5.2						RING SET: piston (0.010 oversize) (8331368)-----	ea	2			1	
65	6		P	H		2805-342-7652	Composed of:						
65	6		P	H		2805-699-6866	2 RING: compression (44940-113A7F)						
65	7		P	H		2805-699-6864	1 RING: oil (44940-113A8F)						
65	8	10	P	H		2805-699-6860	PISTON, INTERNAL COMBUSTION: w/ PIN (standard)(8331365)	ea	2			1	
65	9		P	H		5306-358-3534	PISTON: w/PIN (0.010 oversize) (8331366)-----	ea	2			1	
			P	F		2805-532-9067	PIN, PISTON: (0.005 oversize) (8331364)-----	ea	2			1	
			P	F		5315-358-3121	RING: lock, piston pin (60-R-637100)-----	ea	4			1.7	
			P	H		5305-699-6863	BEARING SET: crankshaft (8331356)-----	ea	1			1	
			P	H		5310-194-0743	Composed of:						
							2 BEARING: crankshaft (44940-101A42)						
							SCREW: connecting rod cap (8331370)-----	ea	4			8	
							<u>NON-ILLUSTRATED ITEMS</u>						
							GASKET: gear cover (**GASKET SET 2805-569-8948)	ea	1	5		5	
							(8331354)						
							PIN, STRAIGHT, HEADLESS: S, bearing stop (8331358)-----	ea	2			2	
							SCREW, CAP: mounting (flywheel to crankshaft) (8331363)-----	ea	1	3		3	
							WASHER, LOCK: split, S, 7/16 screw size (flywheel to crankshaft) (96906-34338-28)	ea	1			3	

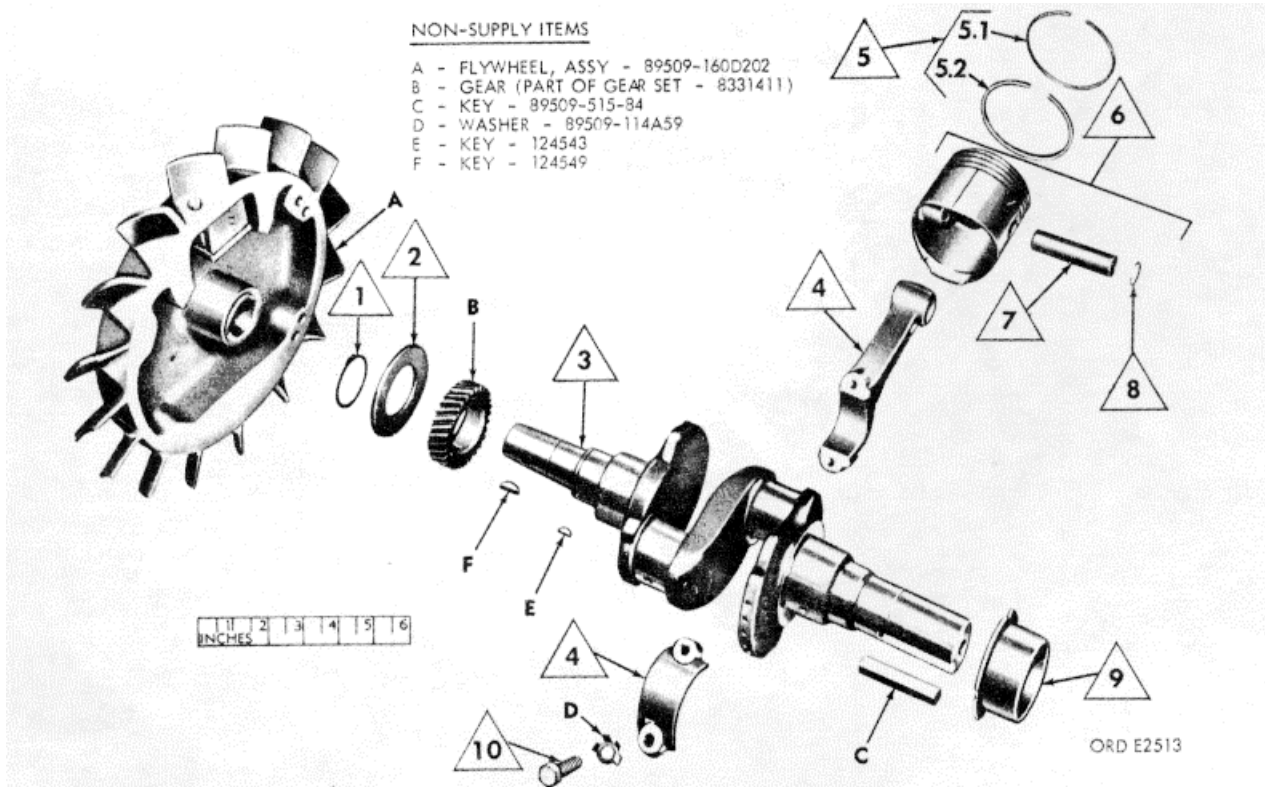


FIGURE 65. CRANKSHAFT, FLYWHEEL, PISTON AND RINGS.

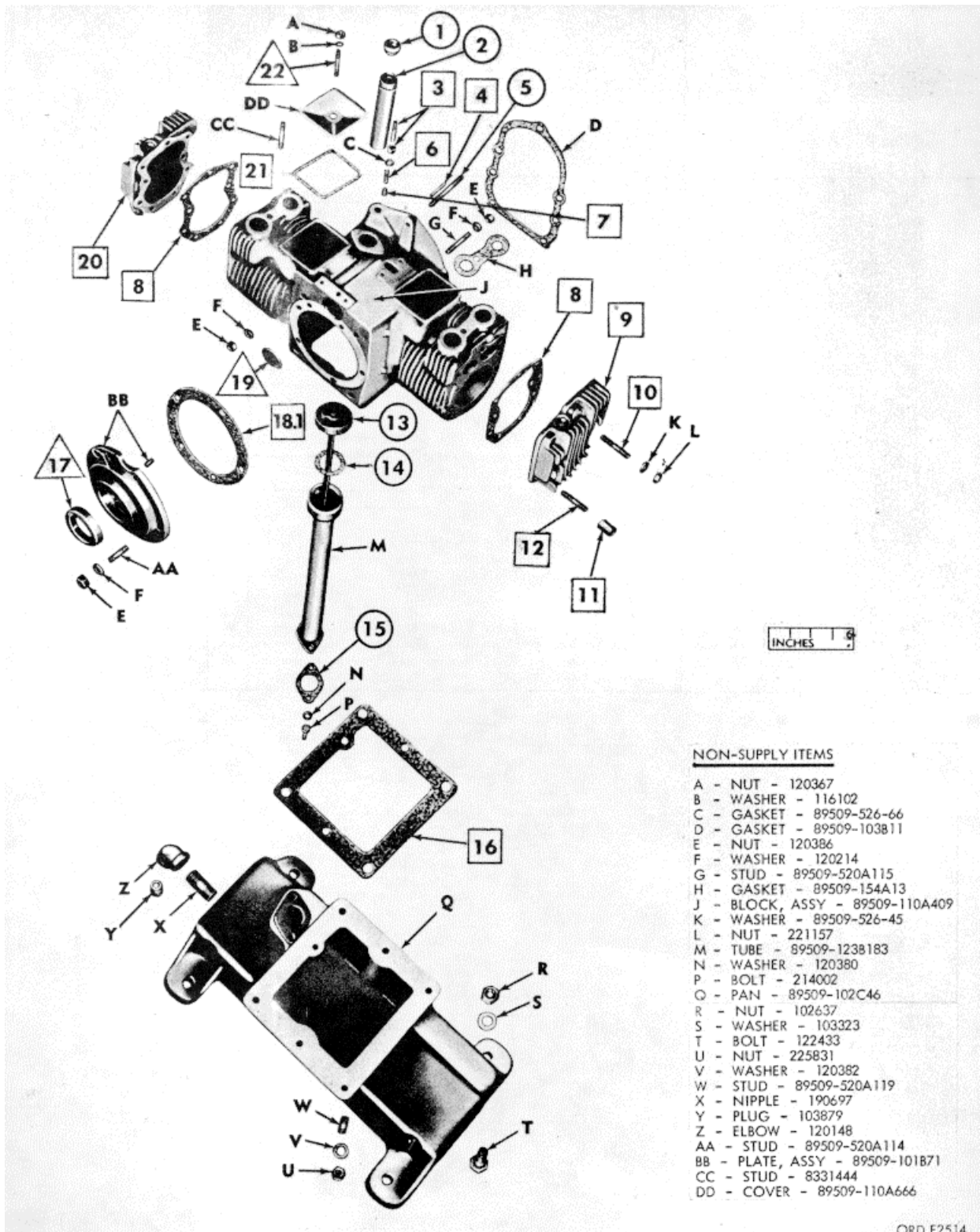


FIGURE 66. CYLINDER BLOCK, CYLINDER HEAD AND RELATED PARTS.

ORD E2514

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1)- Continued</u>						
							<u>CYLINDER BLOCK, CYLINDER HEAD,</u>						
							<u>AND RELATED PARTS Fig. 66)</u>						
66	1		P	O		2805-358-3728	VALVE: check, assy (8331424)-----	ea	1	*	1	1	
66	2		P	O		2805-695-7239	TUBE: breather, assy (8331423)-----	ea	1	*	1	1	
66	3		P	F		5305-429-2509	STUD: adjusting, by-pass relief valve, assy (8331420)-----	ea	1		3	3	
66	4		P	F		5315-699-0831	PIN, STRAIGHT, HEADLESS: dowel, gear cover (8331357)-----	ea	2		1	1	
66	5		P	O		5307-358-3583	STUD: clip (8331615)-----	ea	1	*	*	1	1
66	6		P	F		2805-695-7237	SPRING: by-pass relief valve (8331419)-----	ea	1		3	3	
66	7		P	F		2805-358-2727	VALVE: relief, by-pass (8331421)-----	ea	1		3	3	
66	8		P	F		2805-358-2667	GASKET: cylinder head (** GASKET SET 2805-569-8948) (8331347)	ea	2		5	5	
66	9		P	F		2805-569-8950	HEAD: cylinder, left hand (8331348)-----	ea	1		1	1	
66	10		P	F		5305-493-7160	STUD: 5/16 x 1-5/8 (8331352)-----	ea	8		2	2	
66	11		P	F		2805-699-6857	NUT: special cylinder head (8331350)-----	ea	4		1	1	
66	12		P	F		5307-358-3526	STUD: 5/16 x 1-7/8 (8392192)-----	ea	10		2	2	
66	13		P	O		6680-358-2740	INDICATOR: oil level, assy (8331428)-----	ea	1	*	*	5	5
66	14		P	O		2805-358-2670	GASKET: oil filler cap (r**GASKET SET 2805-569-8948) (8331425)	ea	1	*	*	5	5
66	15		P	O		2805-527-7533	GASKET: oil filler tube (rGASKET SET 2805-569-8948) (8331426)	ea	1	*	*	5	5
66	16		P	F		2805-358-2663	GASKET: oil pan (-**GASKET SET 2805-569-8948) (8331427)-----	ea	1		5	5	
66	17		P	H		5330-286-6868	SEAL: oil, type ML, 1-5/8 x 2.378 x 1/2 (500073)-----	ea	1			5	
66	18		P	F		2805-343-5498	GASKET SET: mounting, bearing plate (*b GASKET SET 2805- 569-8948) (8331355)	ea			.5	5	
							Composed of:						
							1 GASKET: bearing (44940-10840) (Non-illustrated)						
66	18.1						1 GASKET: bearing plate (44940-100IB41)						
66	19		P	H		5340-359-4883	PLUG, EXPANSION: block (8331413)-----	ea	1			2	
66	20		P	F		2805-569-8951	HEAD: cylinder, right hand (8331349)-----	ea	1		1	1	
66	21		P	F		5330-260-8210	GASKET: valve box cover (8331372)-----	ea	2		1	1	
66	22		P	H		5305-493-7158	STUD, PLAIN: mounting, valve box cover (8331403)-----	ea	2		2	2	

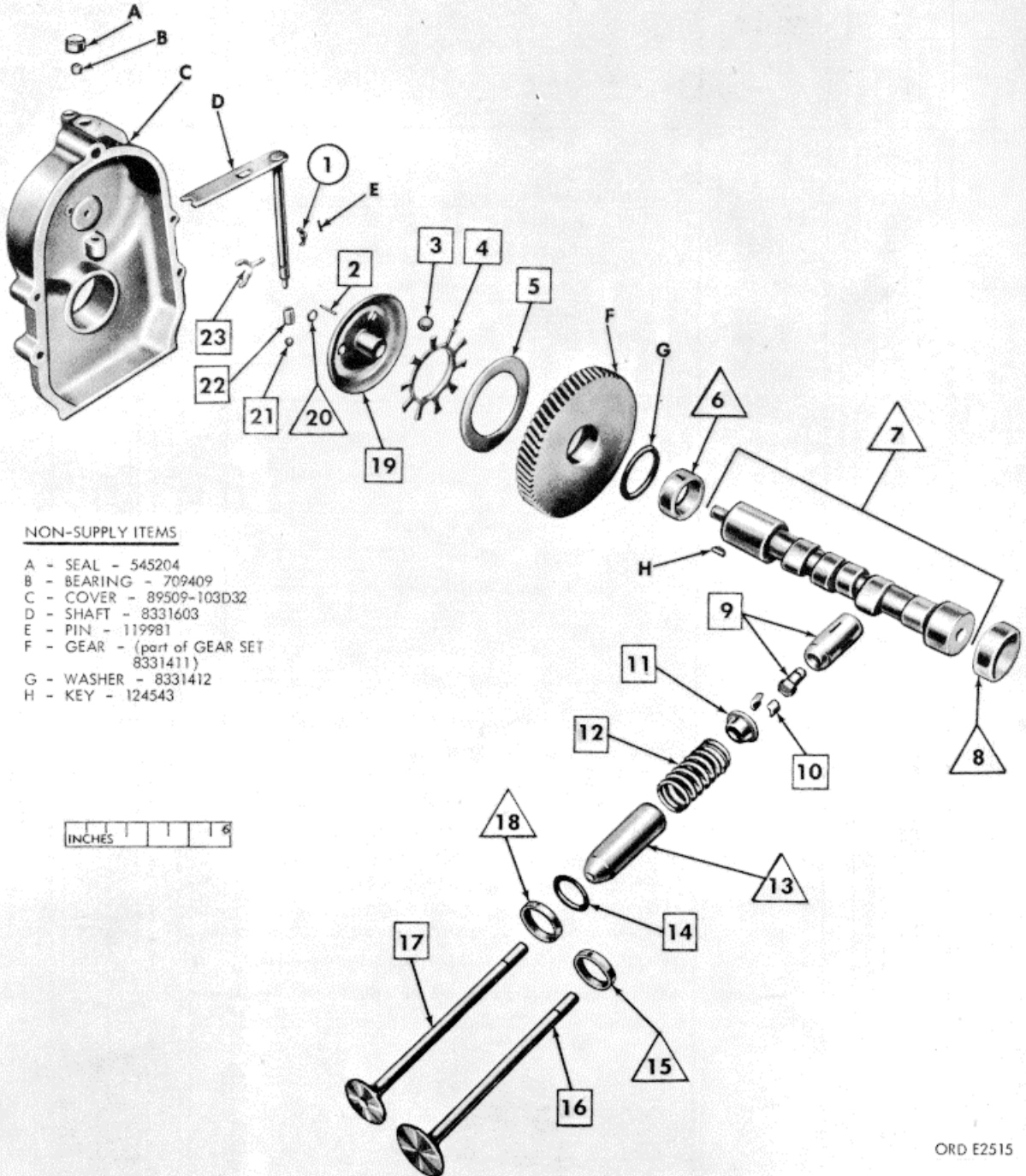


FIGURE 67. CAMSHAFT AND GEAR, GOVERNOR, VALVES AND RELATED PARTS.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REG	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131, M131A1) - CONTINUED</u>						
							<u>CAMSHAFT AND GEAR, GOVERNOR, VALVES, AND RELATED PARTS (FIG. 67)</u>						
67	1		P	O		5340-321-6429	SPRING: SHAFT YOKE (8331606)-----	EA	1	*	*	.3 .3	
67	2		P	F		5315-336-8604	PIN: STOP, GOVERNOR CUP (8331599)-----	EA	1			.2 .2	
67	3		P	F		3110-142-0571	BALL, BEARING: FLY GOVERNOR (8331591)-----	EA	10			.3 .3	
67	4		P	F		2805-358-5361	SPACER: FLY BALL (8331604)-----	EA	1			.2 .2	
67	5		P	F		5340-358-5023	PLATE: FLYBALL 331600-----	EA	1			.1 .1	
67	6		P	H		3120-358-2101	BEARING, SLEEVE: FRONT (B331408)-----	EA	1			.3	
67	7		P	H		2805-358-2366	CAMSHAFT: W/CENTER PIN, ASSY (8331410)-----	EA	1			.2	
67	8		P	H		3120-492-9096	BEARING, SLEEVE: REAR (8331409)-----	EA	1			.3	
67	9		P	F		2805-492-9785	TAPPET: VALVE (8331407)---	EA	4			.3 .3	
67	10		P	F		2805-537-2124	LOCK, VALVE SPRING RETAINER WASHER: (8331374)-----	EA	8			1.3 1.3	
67	11		P	F		5310-512-5223	WASHER: RETAINING, VALVE SPRING (8331406)-----	EA	4			.3 .3	
67	12		P	F		2805-358-3532	SPRING: VALVE (E331402A)-----	EA	4			.5 .5	
67	13		P	H		2805-358-2673	GUIDE: VALVE (8331373)-----	EA	4			.5	
67	14		P	F		2805-537-2123	GASKET: INTAKE VALVE GUIDE (?RR GASKET SET 2805-569-8948) (8331371)	EA	2			.5 .5	
67	15		P	H		2805-321-2'85	SEAT: INTAKE VALVE INSERT (8331401)-----	EA	2			.5	
67	16		P	F		2805-347-5934	VALVE: INTAKE (8331405)-----	EA	2			.8 .8	
67	17		P	F		2805-358-3726	VALVE, POPPET, ENGINE: EXHAUST (8331404)-----	EA	2			.4 .4	
67	18		P	H		2805-328-6794	SEAT: EXHAUST VALVE (8331400)-----	EA	2			.5	
67	19		P	F		2805-358-4515	CUP: ASSY (8331595)-----	EA	1			.1 .1	
67	20		P	H		5340-493-1083	RING: SNAP, CENTER PIN 8331414)	EA	1			.5	
67	21		P	F		3110-142-0529	BEARING: BALL, GOVERNOR SHAFT (6331592)-----	EA	1			.2 .2	
67	22		P	F		3110-112-5767	BEARING: NEEDLE, MIL-STD-CODE 35400302-4300 (709407)---	EA	1			.3 .3	
67	23		P	F		2990-338-1921	YOKE: SHAFT (331608	EA	1			.1 .1	
							<u>NON-ILLUSTRATED ITEMS</u>						
			P	H		1055-348-0326	BEARING: FRONT (8409690)---	EA--	1			.3	
			P	H		2990-693-0748	BEARING: UPPER SHAFT (8331593)---	EA	1			.3	
			P	H		2805-699-6877	KIT: GEAR THRUST WASHER (8331412)-	EA				.5	
							COMPOSED OF. I INSTRUCTION SHEET (44940-E4) 1 WASHER: THRUST (0.010) (44940-1Q5A66) 1 WASHER: THRUST (0.015) (44940-105A67) 1 WASHER: THRUST (0.020) (44940-105A68)						

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
			P	H		2805-569-8948	<u>AUXILIARY ENGINE (M131, M131A1) - CONTINUED</u> <u>ENGINE GASKET SET (NON-ILLUSTRATED)</u> GASKET SET: OVERHAUL (8331346) COMPOSED OF: 1 GASKET: BREAKER PLATE (*) (44940-160A43) 1 GASKET: BREAKER PLATE COVER (*) (44940-160A150) 1 GASKET: CARBURETOR FLANGE () (44940-145A43) 2 GASKET: CYLINDER HEAD (*) (44940-110A124) 2 GASKET: EXHAUST MANIFOLD (**) (44940154A22) 4 GASKET: FUEL PUMP FLANGE (*) (44940-149A3) 1 GASKET: GEAR COVER (*) (44940-130B11) 2 GASKET: INTAKE MANIFOLD (*) (44940-154A13) 1 GASKET: OIL FILLER CAP (44940-123A54) 1 GASKET: OIL FILLER CAP (*) (44940-123A191) 1 GASKET: OIL FILLER TUBE (T*) (44940-141A78) 1 GASKET: OIL PAN (*) (44940-102BB) 2 GASKET: VALVE BOX COVER (44940-110A667) 4 GASKET: VALVE GUIDE (*) (44940-110A68) 1 GASKET SET: BEARING PLATE (*) (44940-101K115) 1 GASKET SET: OIL PUMP (44940-120-161) 1 SEAL: OIL, CRANKSHAFT, REAR (44940-509-1) 2 SEAL: OIL, GEAR COVER (44940-509-11) 1 SEAL: OIL, GOVERNOR SHAFT (44940-509-8)	EA	=/				1

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
							<u>AUXILIARY ENGINE (M131A2)</u> <u>AUXILIARY ENGINE (FIG. 68)</u>						
68	1		P	O	R	2805-650-4509	ENGINE, GASOLINE: STARTER (7003031)-----	EA	1		*	.1	.1
68	2		P	O		2990-358-5774	MUFFLER, ENGINE EXHAUST: (7739478)-----	EA	1		*	.2	.2
68	3		P	O		2590-659-7745	CONTROLASSEMBLY, PUSH-PULL: CARBURETOR (7739504)-----	EA	1	*	*	.1	.1
68	4		P	O		2590-659-7747	CONTROLASSEMBLY, PUSH-PULL: THROTTLE (7739488)-----	EA	1	*	*	.1	.1

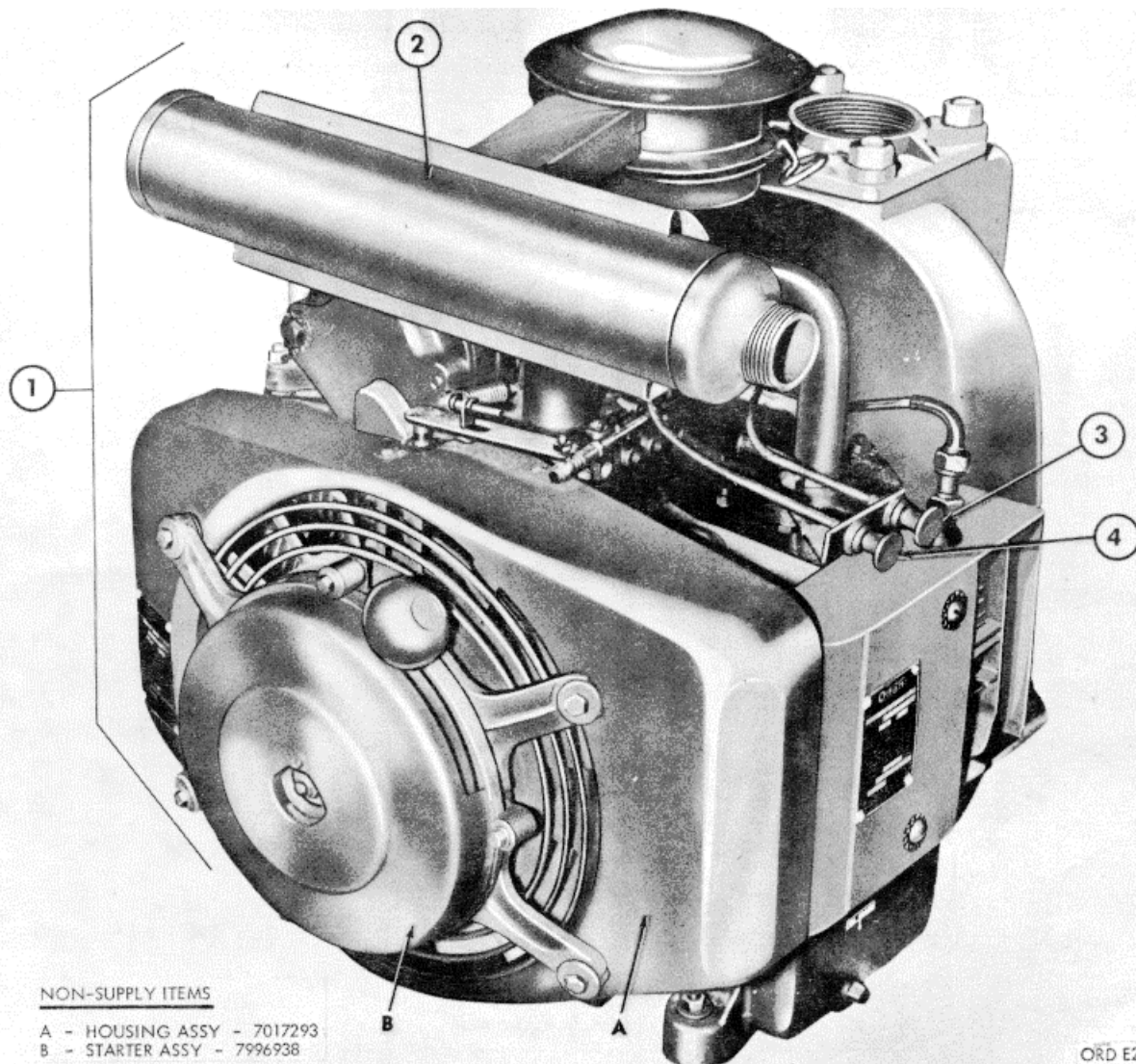


FIGURE 68. AUXILIARY ENGINE - M131A2.

FIGURE 68. AUXILIARY ENGINE - M131A2.

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- ten- ance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
69	1		P P	O O	R	2910-358-4511 5306-543-2506	<u>AUXILIARY ENGINE (M131A2) - CONTINUED</u> <u>AUXILIARY ENGINE ACCESSORIES (FIG. 69)</u> CARBURETOR ASSEMBLY: (7535650) ----- SCREW, CAP, HEXAGON HEAD: S, 5/16-18UNC-2A X 7/8 (96906-35291-33)	EA EA	1 2	* *	* *	.5 .3	.3 .3
69	2		P	O		2920-659-7764	MAGNETO, IGNITION: (7739470)-----	EA	1	*	5	.3	
69	3		P	O	S	2920-359-4858	SPARK PLUG: (7003497)-----	EA	2	*	*	2.4	1.5
69	4		P	O		2805-358-3007	MANIFOLD: INTAKE (7739471)-----	EA	1	*	1	.1	
69	5		P	O		2920-358-6773	CABLE: SPARK PLUG (SHORT) (7003401)-----	EA	1	*	*	.3	.3
69	6		P	O		2920-358-6772	LEAD, ASSEMBLY: SPARK PLUG (7003402)-----	EA	1	*	*	.3	.3

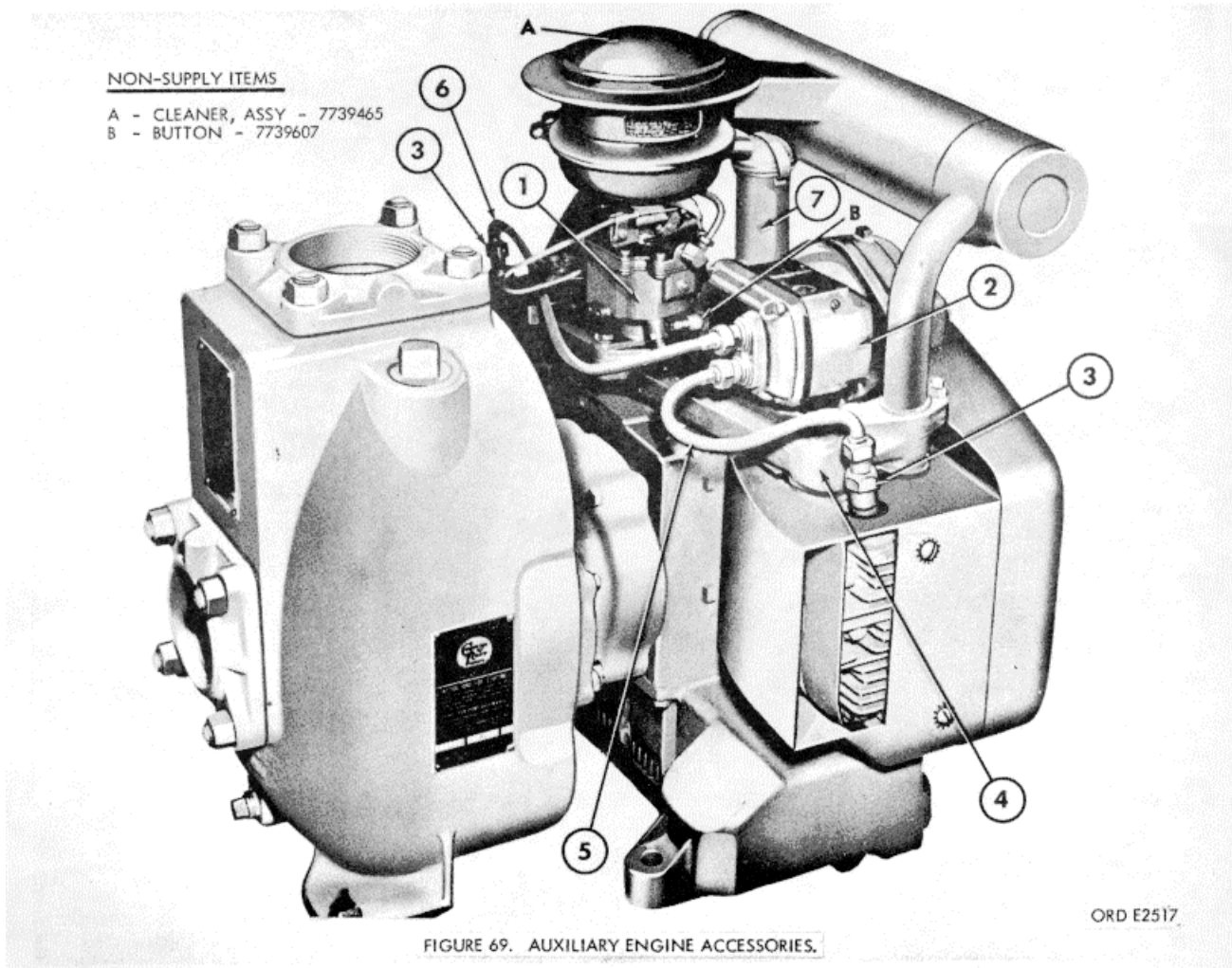


FIGURE 69. AUXILIARY ENGINE ACCESSORIES,
76

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility					(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)
							<u>AUXILIARY ENGINE (M131A2) - CONTINUED</u>						
							<u>FUEL PUMP AND OIL PRESSURE GAGE (FIG. 70)</u>						
70	1		P	O	R	2910-379-2806	PUMP, ASSEMBLY: FUEL, ENGINE (7739480)-----	EA	1	*	*	.5	.3
70	2		P	O		6620-515-3483	GAGE: OIL PRESSURE (7418471)--- -----	EA	1		*	.2	.2

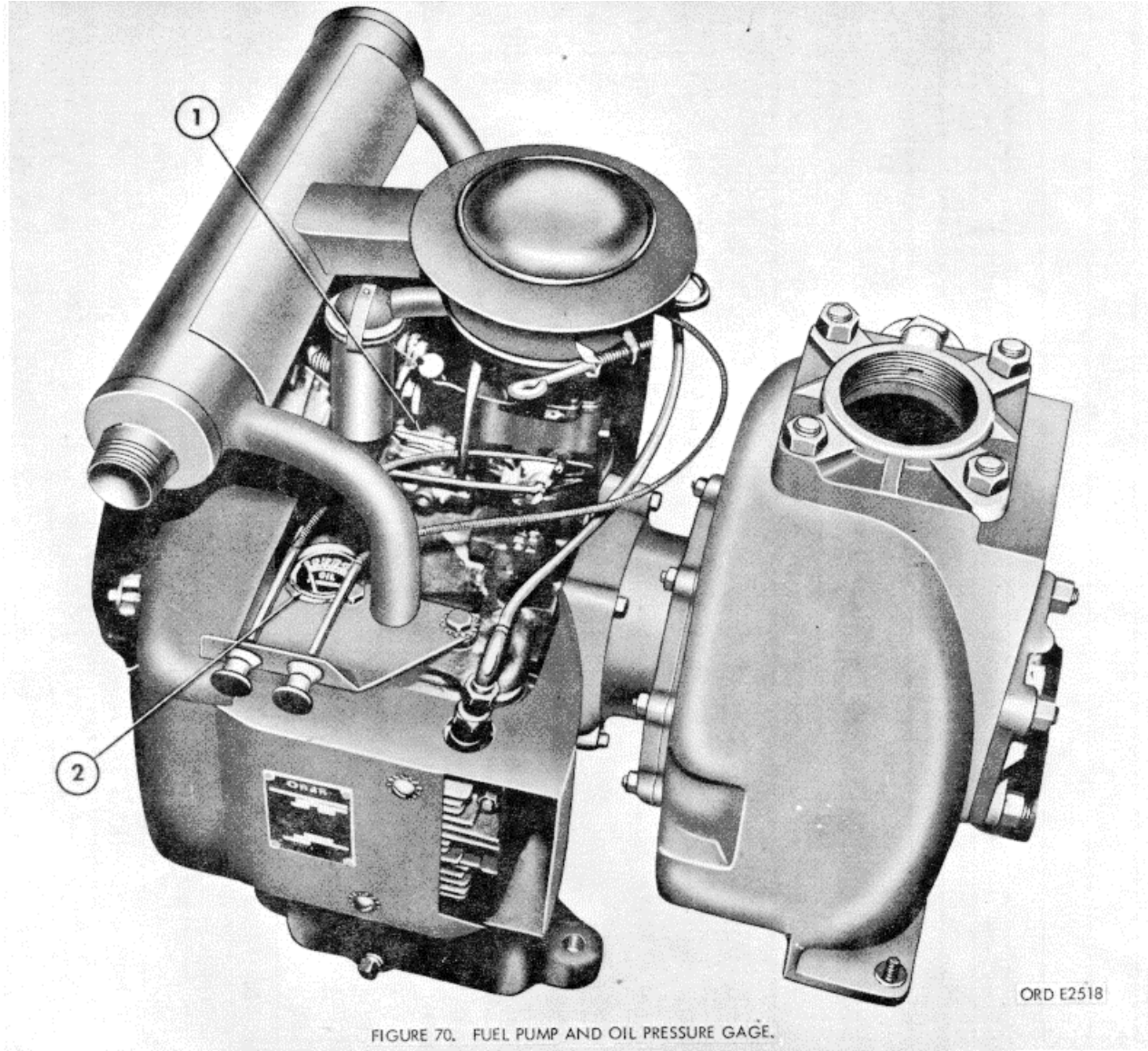


FIGURE 70. FUEL PUMP AND OIL PRESSURE GAGE,
77

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A2) - CONTINUED</u>						
							<u>AUXILIARY ENGINE PARTS (NON-ILLUSTRATED)</u>						
			P	F		3110-151-9135	BALL BEARING: MIL-STD-CODE 999-56012-0300 (GOVERNOR THRUST SHAFT) (145637)	EA	1		.1	.1	
			P	F		3110-151-9147	BALL BEARING: MIL-STD-CODE 999-56036-0300 (GOVERNOR CUP) (145658)	EA	10		1.3	1.3	
			P	F		2990-679-7065	BALL RACE, GOVERNOR: CUP (7023576)-----	EA	1		.1	.1	
			P	O		2990-628-0506	BALL, JOINT: GOVERNOR LINKAGE (7016837)----- --	EA	1	*	.2	.2	
			P	F		3110-142-0529	BEARING: BALL, GOVERNOR SHAFT (8331592)-----	EA	1		.2	.2	
			P	H		3120-358-2102	BEARING, CRANKSHAFT: CRANKCASE (7739534)-----	EA	2			.3	
			P	H		3120-358-2124	BEARING: CRANKSHAFT TO CONNECTING ROD (7739489)-----	EA	4			.4	
			P	F		3110-112-5767	BEARING: NEEDLE, MIL-STD-CODE 354-00302-4300 OOWER SHAFT) (709407)	EA	1		.3	.3	
			P	F		3110-112-5773	BEARING: NEEDLE, MIL-STD-CODE 354-00601-0000 (LOWER GEAR CASE) (709409)	EA	1		.1	.1	
			P	F		3110-737-2638	BEARING: ROTOR (DRIVE END) (7372638)-----	EA	1		.2	.2	
			P	F		3120-659-7767	BEARING: SHEAVE STARTER INNER PLATE (7023561)-----	EA	1		.2	.2	
			P	H		3120-358-2101	BEARING, SLEEVE: CRANKCASE (8331408)-----	EA	2			.3	
			P	H		2805-358-2228	BEARING, SLEEVE: PISTON PIN (7739569)-----	EA	2			.4	
			P	F		3120-358-2131	BUSHING: IDLER GEAR (739602)-----	EA	1		.2	.2	
			P	F		3120-358-2132	BUSHING: IDLER GEAR (7739604)-----	EA	1		.3	.3	
			P	H		2805-358-2331	CAMSHAFT AND PIN ASSEMBLY: (7739543)-----	EA	1			.2	
			P	F		5910-740-2855	CAPACITOR, FIXED, PAPER, DIELECTRIC: (7402855)-----	EA	1		.6	.6	
			P	F		2920-358-6771	COIL: ASSY (82796-Q2477C)-----	EA	1		.3	.3	
			P	F		2920-211-4472	CONTACT POINT: ASSY (44940-161-28)-----	EA	1		1	1	
			P	R		2920-358-5775	COUPLING: IMPULSE, ASSY (52196-EZ563C)-----	EA	1		.3	.3	
			P	O		2590-659-7746	CONTROL ASSEMBLY, PUSH-PULL:- FUEL PUMP (7023548)-----	EA	1	*	*	.1	.1
			P	F		2805-358-4515	CUP: ASSY (8331595)-----	EA	1		.1	.1	
			P	F		2805-374-9960	GASKET: CYLINDER HEAD (7739553)-----	EA	2		.5	.5	
			P	O		2805-532-9068	GASKET: EXHAUST MANIFOLD (**GASKET SET 2805-569-8948) (8331442)	EA	2	*	.1	.1	
			P	O		2910-699-8514	GASKET: FLANGE (**GASKET SET 2805-358-2699) (8331579)--	EA	1	*	.5	.5	
			P	O		2910-699-8514	GASKET: FLANGE FUEL PUMP (**ARGASKET SET 2805-569-8948 AND 2805-358-2699) (8331579)	EA	2	*	.5	.5	
			P	O		2805-699-6885	GASKET: INTAKE MANIFOLD (**GASKET SET 2805-569-8948 AND 2805-358-2699) (8331443)	EA	2	*	1	1	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A2) - CONTINUED</u>						
							<u>AUXILIARY ENGINE PARTS (NON-ILLUSTRATED) - CONTINUED</u>						
			P	F		2805-537-2123	GASKET: INTAKE VALVE GUIDE (**GASKET SET 2805-569-8948) (8331371)	EA	2		5	5	
			P	F		2520-733-8761	GASKET: MAGNETO CAP (8338761)-----	EA	1		4	4	
			P	O		2805-423-0363	GASKET: MANIFOLD TO MUFFLER (7739582)-----	EA	2	*	3	3	
			P	F		2805-374-9961	GASKET: VALVE COVER (**GASKET SET 2805-569-8948) (7739552)	EA	2		5	5	
			P	F		2910-358-4478	GASKET SET: CARBURETOR (**KIT 2910-358-4508) (44940-146K2)	EA			3	3	
							COMPOSED OF:						
							1 GASKET: ADJUSTING SCREW (44940-156-5)						
							1 GASKET: AIR HORN (44940-146-39)						
							1 GASKET: INLET SEAT (44940-146-7)						
							1 GASKET: NOZZLE OUTLET (44940-146-38)						
			P	H		285-358-2699	GASKET SET: ENGINE OVERHAUL (5702387)	EA	=/			.5	
							COMPOSED OF:						
							1 GASKET: CRANKCASE BASE (7739501)						
							2 GASKET: VALVE BOX (*) (7739552)						
							1 GASKET: MAGNETO MOUNTING (7739599)						
							1 GASKET: FUEL PUMP MOUNTING (*) (8331579)						
							1 GASKET: MAGNETO BRACKET (7739505)						
							1 GASKET: MUFFLER TO MANIFOLD (*) (8331442)						
							2 GASKET: INTAKE VALVE GUIDE (8331373)						
							1 GASKET: GEAR CASE COVER (7739506)						
							1 GASKET: BREATHER VALVE (7739577)						
							2 GASKET: CYLINDER HEAD (**) (739553)						
							1 GASKET: REAR BEARING PLATE (7739496)						
							1 GASKET SET: OIL PUMP MOUNTING (*) (5702386)						
							2 GASKET: MANIFOLD INTAKE (*) (8331443)						
							1 GASKET: CARBURETOR MOUNTING (*) (7739582)						
							1 SEAL: LOWER GEAR CASE (600286)						
							1 SEAL: GOVERNOR SHAFT (7739622)						
							1 SEAL: CRANKSHAFT OIL (500073)						

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M13A2) - CONTINUED</u>						
							<u>AUXILIARY ENGINE PARTS (NON-ILLUSTRATED) - CONTINUED</u>						
			P	H		2805-358-2672	GASKET SET: OIL PUMP MOUNTING (5702386)----- COMPOSED OF: 1 GASKET: MOUNTING (7739571) 1 GASKET: BODY (8331417) 1 GASKET: BODY (7023567) 1 GASKET: BODY (7023568)	EA	=			.5	
			P	F		2920-358-7127	GEAR: 7739600-----,-----,-----	EA	1		.2	.2	
			P	H		2520-692-6231	GEAR SET, HELICAL, MATCHED: W/CAM AND CRANK (8331411)	EA	1			.2	
			P	H		2805-358-2673	GUIDE: VALVE (8331373)-----,-----	EA	4			.5	
			P	F		2805-358-2847	HEAD: CYLINDER, LEFT HAND (7739476)--	EA	1		.1	.1	
			P	F		2805-358-2848	HEAD: CYLINDER, RIGHT HAND (17739475)-----	EA	1		.1	.1	
			P	O		2990-696-0373	HOSE: FLEX, OIL, PRESSURE GAGE (7418403)	EA	1	*	.2	.2	
			P	H		5315-358-2913	KEY: CRANKSHAFT, FLYWHEEL V7739623)-----	EA	1			.5	
			P	F		2910-358-4508	KIT, REPAIR: CARBURETOR (44940-146K76) -----	EA	5			.5	
							COMPOSED OF: 1 GASKET SET: CARBURETOR (*) (44940-146K2) 1 NEEDLE AND SEAT: FUEL INLET (44940-146-68) 1 NOZZLE: MAIN (44940-146-51) 1 PIN: FLOAT LEVER (44940-146-31) 2 SCREW: AND LOCK WASHER THROTTLE SHUTTER (44940-146-83) 1 SCREW: BOWL INSPECTION (44940-146-21) 1 SCREW: CHOKE WIRE RETAINER (44940-815-121) 1 SCREW: IDLE ADJUSTMENT (44940-146-36) 1 SCREW: IDLE SPEED (44940-1424) 1 SCREW: MAIN ADJUSTMENT (44940-14665) 1 SCREW: THROTTLE CLAMP (44940-815-110) 1 SHAFT: THROTTLE (44940-14663) 1 SPRING: IDLE ADJUSTMENT SCREW (44940-146-10) 1 SPRING: IDLE SPEED SCREW (44940-156-11) 1 SPRING: THROTTLE IDLER CONTROL LEVER (44940-146-61) 1 TUBE: IDLE (44940-14646)						

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							AUXILIARY ENGINE (M131A2) - CONTINUED						
			P	F		2910-317-4797	AUXILIARY ENGINE PARTS (NON-ILLUSTRATED)- CONTINUED KIT: REPAIR FUEL PUMP (44940-149K526)----- COMPOSED OF: 1 DIAPHRAGM: ASSY (44940-149A582) 1 GASKET: PUMP MOUNTING (44940-149A3) 2 GASKET: VALVE (44940-149A95) 1 SPRING: DIAPHRAGM (44940-149A672) 1 SPRING: ROCKER (44940-149A582) 2 VALVE: AND CAGE (44940-149P96)	EA			.4	.4	
			P	F		2805-537-2124	LOCK, VALVE SPRING RETAINER WASHER: (8331374)-----	EA	8		1.3	1.3	
			P	O		5310-543-5972	NUT, PLAIN, HEXAGON: ALLOY-S, 7/16-20UNF-2B (MAGNETO BRACKET STUD) (96906-35690-728)	EA	1		.2	.2	
			P	F		5310-693-2599	NUT, PLAIN, HEXAGON: CYLINDER HEAD (8392191)-----	EA	2		.5	.5	
			P	F		2805-699-6857	NUT: SPECIAL (8331350)-----	EA	2		.5	.5	
			P	O		5315-493-7116	PIN, STRAIGHT, HEADLESS: MAGNETO BRACKET (7739624)-----	EA	2		.3	.3	
			P	F		5315-336-8604	PIN STOP, GOVERNOR CUP 80331599)-----	EA	1		.2	.2	
			P	H		2805-659-7760	PISTON, INTERNAL COMBUSTION: W/PIN, ASSY (7739556)-----	EA	2			.2	
			P	F		5340-358-5023	PLATE: FLY BOALL (8331600)-----	EA	1		.1	.1	
			P	H		5340-359-4883	PLUG, EXPANSION: BLOCK (8331413)	EA	1			.2	
			P	F		2805-659-7761	PLUNGER, BY-PASS, RELIEF, VALVE: (7739574)-----	EA	1		.2	.2	
			P	F	R	2805-620-8019	PUMP, OIL (7739573)	EA	1		.1	.1	
			P	H		5340-619-7231	RING, RETAINING, EXTERNAL, STEEL: 1.397 SHAFT DIA (CRANKSHAFT WASHER) (96906-9013-34)	EA	1			.5	
			P	H		5340-356-1163	RING, RETAINING: PISTON PIN (7739555)-----	EA	2			1.7	
			P	H		5340-493-1083	RING: SNAP, CENTER PIN 33414)-----	EA	1			.5	
			P	F		5340-737-2628	RING: SNAP, ROTOR BEARING (7372628)	EA	1		.2	.2	
			P	H		1055-696-5666	RING SET: PISTON (44940-113A51)	EA	2			.5	
			P	H	R	2805-358-3366	ROD, CONNECTING: W/BEARING, ASSY (7739502)	EA	2			.5	
			P	O		2990-338-1916	ROPE: W/GRIP, ASSY 8331437)-----	EA	1		.3	.3	
			P	F		1055-699-1259	ROTOR: ASSY (8'96-HV2480)	EA	1		.5	.5	
			P	O		5306-514-7303	SCREW, CAP, HEXAGON HEAD: ALLOY-S, 5/16-24UNC-2A X 1-1/4 ONTAKE MANIFOLD) (96906-35302-26)	EA	2		.3	.3	
			P	O		5306514-7303	SCREW, CAP, HEXAGON HEAD: ALLOY-S, 5/16-24UNC-2A X 1-1/4 MNUFFLER TO MANIFOLD) (96906-35302-36)	EA	2		.3	.3	

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Mainte- nance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A2)- CONTINUED</u>						
							<u>AUXILIARY ENGINE PARTS (NON-ILLUSTRATED) - CONTINUED</u>						
			P	F		5305-366-7143	SCREW: ADJUSTING, CONTACT SUPPORT (82796-C2455)-----	EA	1			.2	.2
			P	F		5305-358-7791	SCREW ASSEMBLY: RETAINING, MAGNETO CAP (82796-0S10D--	EA	4			.2	.2
			P	F		5305-699-6863	SCREW, CAP: MOUNTING (FLYWHEEL TO CRANKSHAFT) (8331363)	EA	1			.3	.3
			P	H		2805-358-3213	SCREW: CRANKSHAFT BEARING STOP (7739636)-----	EA	4				.3
			P	O		5305-653-9287	SCREW, MACHINE: FL-HD, AL-ALLOY, 1/4-20UNC-2A X 3/8 (FUEL PUMP MOUNTING) (96906-35251-84)	EA	2	*	*	.3	.3
			P	F		5330-737-2635	SEAL: ROTOR (DRIVE END) 7372635) -----	EA	1			.2	.2
			P	H		2805-328-6794	SEAT: EXHAUST VALVE (8331400) -----	EA	2				.5
			P	H		1055-695-4755	SEAT: INSERT, INTAKE VALVE (739551)-----	EA	2				.5
			P	F		2805-358-5361	SPACER: FLY BALL (8331604)-----	EA	1			.2	.2
			P	O		2910-258-5357	SPACER: FUEL PUMP (8331584)-----	EA	1	*	*	.1	.1
			P	O		2990-696-0357	SPRING: GOVERNOR (8331605)-----	EA	1	*	*	.3	.3
			P	F		5340-097-2738	SPRING, HELICAL, COMPRESSION: BY-PASS RELIEF VALVE (7739572)	EA	1			.3	.3
			P	F		2805-358-3552	SPRING, HELICAL, COMPRESSION: VALVE (7739549--	EA	8			.5	.5
			P	O		2910-659-7766	SPRING, HELICAL, TORSION: THROTTLE (7535691)--- ----	EA	1		*	.2	.2
			P	O		2805-382-8133	SPRING: PAWL (7739615)-----	EA	1		*	.3	.3
			P	O		2990-699-8507	SPRING: PAWL (8331439)-----	EA	2		*	.3	.3
			P	O		2990-699-8508	SPRING: RECOIL (8331440)----	EA	1		*	.2	.2
			P	F		5307-358-3633	STUD, PLAIN: CYLINDER HEAD (7739635)-----	EA	8			.5	.5
			P	F		5307-358-3634	STUD, PLAIN: CYLINDER HEAD (7739632)	EA	10			.4	.4
			P	H		5305-493-7158	STUD, PLAIN: MOUNTING, VALVE BOX COVER (8331403) --	EA	2			.2	.2
			P	O		5307-699-6886	STUD: MOUNTING, INTAKE MANIFOLD (8331444)-----	EA	2		*	.5	.5
			P	O		5307-358-3559	STUD, PLAIN: (7739634)-	EA	1			.1	.1
			P	O		5307-358-3557	STUD, PLAIN: MAGNETO (7739630)--	EA	2		*	.2	.2
			P	F		2805-492-9785	TAPPET: VALVE (8331407)-----	EA	2			.3	.3
			P	F		2805-358-3748	VALVE, ENGINE, INTAKE: (7739550)	EA	2			.5	.5
			P	F		2805358-3726	VALVE, POPPET, ENGINE: EXHAUST (8331404)-----	EA	2			.4	.4
			P	H		5310-493-1201	WASHER: FLYWHEEL TO CRANKSHAFT (7739627)-----	EA	1				.2
			P	H		5310-358-3799	WASHER: CONNECTING ROD BOLT (7739570)	EA	4				1

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS			
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility				(a) CO OR BRTY	(b) SEP CO SEP BN OR REGT	(c) 3rd ECH (DIR SUP)	(d) 4th ECH (GEN SUP)	
							<u>AUXILIARY ENGINE (M131A2) - CONTINUED</u>						
							<u>AUXILIARY ENGINE PARTS (NON-ILLUSTRATED) - CONTINUED</u>						
			P	0		5310-659-7772	WASHER, FLAT: FUEL PUMP MOUNTING (7003031)-----	EA	2	*	*	3	3
			P	O		5310-012-0214	WASHER, LOCK: SPLIT, S, 5/16 SCREW SIZE (INTAKE MANIFOLD) (9690635338-26)	EA	2		*	3	3
			P	O		5310-012-0214	WASHER, LOCK: SPLIT, S, 5/16 SCREW SIZE (MUFFLER AND BRACKET TO MANIFOLD) (9690635338-26)	EA	2	*	*	3	3
			P	H		5310-194-0743	WASHER, LOCK: SPLIT, S, 7/16 SCREW SIZE (FLYWHEEL TO CRANK- SHAFT) (96906-34338-28)	EA	1			3	3
			P	F		5310-214-3059	WASHER: STUD, CYLINDER HEAD (7739637)-----	EA	18			1	1
			P	H		2805-695-7236	WASHER: RETAINING, GEAR (8331361)-----	EA	1				2
			P	H		5310-492-9246	WASHER, THRUST: GEAR (7739641)-----	EA	1				2
			P	0		5310-639-8061	WASHER, LOCK: INT-TEETH, S, 5/16 SCREW SIZE (NAGNETO) (96906-35333-24)	EA	2		*	2	2
			P	0		5310-194-0743	WASHER, LOCK: SPLIT, S, 7/16 SCREW SIZE BRACKET STUD LOCK) (9690&35338-28)	EA	1		*	.2	2
			P	F		5310-358-3786	WASHER, THRUST: IDLER GEAR (7739603)----	EA	1			2	2

(1) ILLUSTRATION		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) QUANTITY PER TOOL KIT	
(a) FIG NO	(b) ITEM	(a) Tech- nical Ser- vice No.	(b) Source	(c) Main- tenance- Level	(d) Recov- erab- ility			(a) KIT A	(b) KIT B
							<p style="text-align: center;">SECTION III ORGANIZATIONAL TOOLS AND EQUIPMENT <u>VEHICLE TOOL KITS</u></p> <p>NOTE: For field (3rd and 4th echelon) tools, see Maintenance Tool for Ordnance personnel on page 3 for Tool Kit application reference.</p> <p>Tool kits A and B will not be issued to units unless mechanics are authorized. All units should have either on A or B kit, but not both. Ordnance units authorized 3rd, 4th, or 5th echelon special kits will not be authorized kit A or B.</p> <p>The items listed under each pair of kits are components of those kits and may be requisitioned under their individual stock numbers. Stockage of components of these tool kits which are duplicated in basic kits for other type vehicles assigned by TOE are not required beyond actual need.</p> <p>The quantities shown in sub-column 5(a) and 5(b) indicate the number of component items allotted to the particular tool kit shown.</p> <p style="text-align: center;"><u>M131</u></p> <p>TOOL KIT: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit A: one per lettered battery, company; headquarters of units above battalion level; battalion headquarters, when battalion has a service company (8390224)</p> <p>TOOL KIT: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit B: one per battalion and regiment headquarters (except when battalion or regiment has a service company; service company, numbered battery, company; and similar headquarters performing maintenance work for other units (8390225)</p> <p>WRENCH, SOCKET: wheel bearing adjusting nut (7076968)----- <u>M131A1 - M131A2</u></p> <p>TOOL KIT, TRAILER: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit A: one per lettered battery, company; headquarters of units above battalion level; battalion headquarters, when battalion has a service company (5702486)</p> <p>TOOL KIT, TRAILER: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit B: one per battalion and regiment headquarters (except when battalion or regiment has a service company; service company, numbered battery, company; and similar headquarters performing maintenance work for other units (5702487)</p> <p>REPLACER: axle oil seal wipers (7950136)-----</p> <p>WRENCH, SOCKET: wheel bearing adjusting nut (7076968) I-----</p> <p>REMOVER and REPLACER: (brake shoe return (7950060) -----</p>		
71	3					5180-390-5405	TOOL KIT: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit A: one per lettered battery, company; headquarters of units above battalion level; battalion headquarters, when battalion has a service company (8390224)		
						5180-390-5410	TOOL KIT: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit B: one per battalion and regiment headquarters (except when battalion or regiment has a service company; service company, numbered battery, company; and similar headquarters performing maintenance work for other units (8390225)	1	
						5120-378-3139	WRENCH, SOCKET: wheel bearing adjusting nut (7076968)----- <u>M131A1 - M131A2</u>	1	1
						5180-605-1713	TOOL KIT, TRAILER: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit A: one per lettered battery, company; headquarters of units above battalion level; battalion headquarters, when battalion has a service company (5702486)	1	
						5180-605-1714	TOOL KIT, TRAILER: Organizational Maintenance, 2nd Echelon, Special, Basic, Kit B: one per battalion and regiment headquarters (except when battalion or regiment has a service company; service company, numbered battery, company; and similar headquarters performing maintenance work for other units (5702487)		1
71	2					5120-795-0136	REPLACER: axle oil seal wipers (7950136)-----		1
71	3					5120-378-3139	WRENCH, SOCKET: wheel bearing adjusting nut (7076968) I-----	1	1
71	1					5120-795-0060	REMOVER and REPLACER: (brake shoe return (7950060) -----	1	1

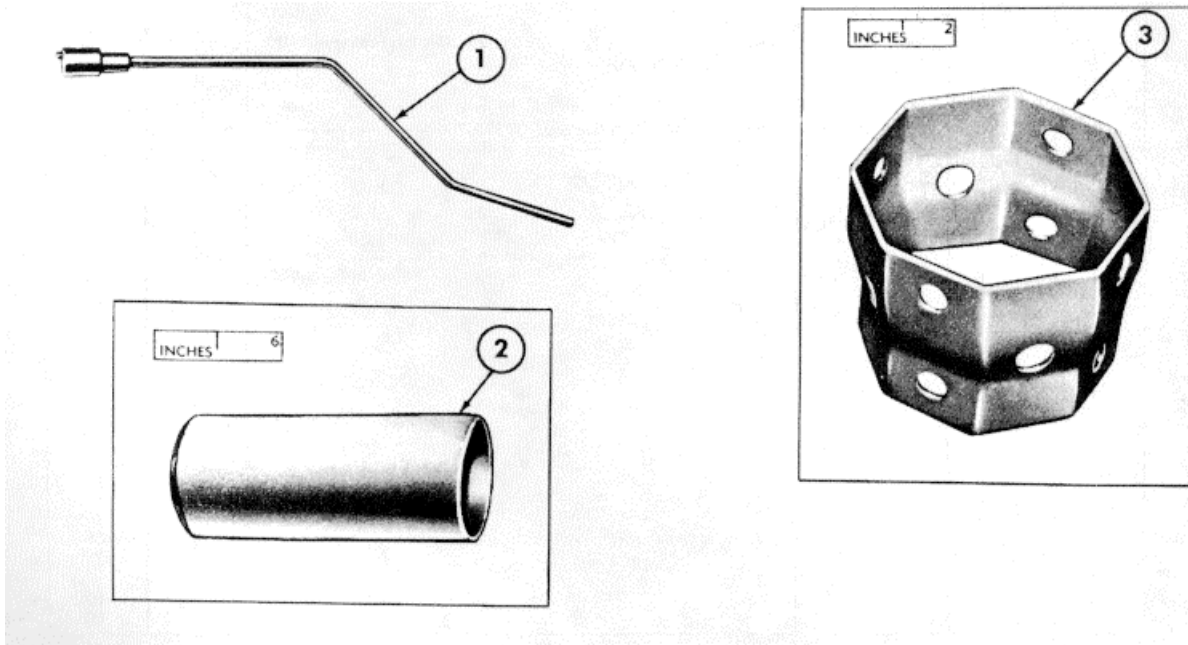


FIGURE 71. ORGANIZATIONAL TOOLS

SECTION IV. - INDEXES - ALPHABETICAL INDEX

Standard hardware items are not included in this index because of their common and multiple application in the supply system.

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Body spring assembly -----	42	Wheel cylinder inlet -----	25
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