

TECHNICAL MANUAL

UNIT AND INTERMEDIATE, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

AIR COMPRESSOR, ROTARY,
GASOLINE ENGINE DRIVEN,
60 CFM, 6.5 PSI
C&H MODEL 20-920
NSN 4310-01-248-1661

Approved for public release; distribution is unlimited

HEADQUARTERS, DEPARTMENT OF THE ARMY
17 JUNE 1988

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TM 5-4310-381-23P

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

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

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**UNIT AND INTERMEDIATE, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

SECTION I. INTRODUCTION

1. SCOPE. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit and intermediate, direct support, maintenance of the Air Compressor. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. GENERAL. In addition to this section, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

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

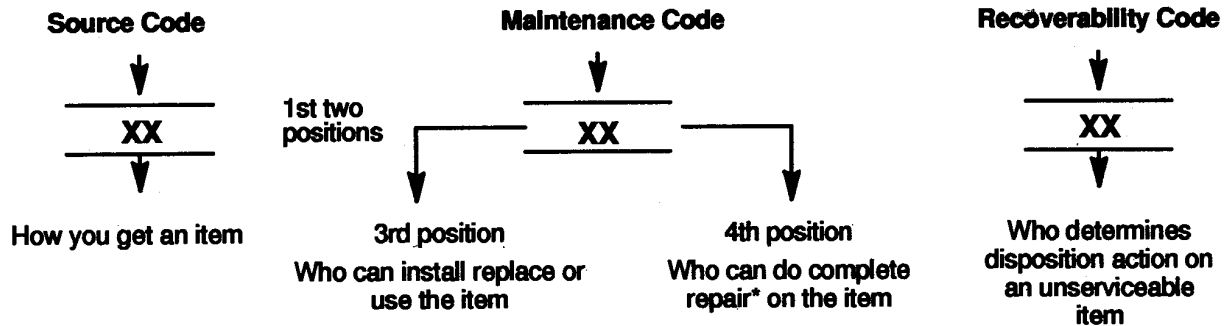
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. Cross-references Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item number in alphanumeric sequence and cross references NSN, FSCM and part number.

3. EXPLANATION OF COLUMNS (SECTIONS II AND III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code

Explanation

PA
PB
PC**
PD
PE
PF
PG

Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR code.

**NOTE: Items coded PC are subject to deterioration.

KD
KF
KB

Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.

Explanation

MO--(Made at org.
AVUM Level
MF--(Made at DS/
AVUM Level
MH--(Made at GS
Level)
ML--Made at Spe-
cialized Repair
Activity (SRA))
MD--(Made at Depot)

Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION and USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.

AO--(Assembled by
org/AVUM Level)
AF--(Assembled by
DS/AVIM Level)
AH--(Assembled by
GS Category)
AL--(Assembled by
SRA)
AD--(Assembled by
Depot)

Explanation

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates the items are assembled at a higher level, order the item from the higher level of maintenance.

Code

Explanation

XA--Do not requisition an "XA"-coded item. Order its next higher assembly. (Also, refer to the NOTE below.)

XB--If an "XB" item is not available from salvage, order it using the FSCM and part number given.

XC--Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.

XD--Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tells you the level (s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

- (a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code	Application/Explanation
C	--Crew or operator maintenance done within organizational or aviation unit maintenance.
O	--Organizational or aviation unit category can remove, replace, and use the item.
F	--Direct support or aviation intermediate level can remove, replace, and use the item.

H--General support level can remove, replace, and use the item.

L--Specialized repair activity can remove, replace, and use the item.

D--Depot level can remove, replace, and use the item.

- (b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions.) NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes. This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	--Organizational or (aviation unit) is the lowest level that can do complete repair of the item.
F	--Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	--General Support is the lowest level that can do complete repair of the item.
L	--Specialized repair activity is the lowest level that can do complete repair of the item.
D	--Depot is the lowest level that can do complete repair of the item.
Z	--nonrepairable. No repair is authorized.
B	--No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B1" coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

- (3) Recoverability Code.** Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability Codes	Application/Explanation
Z	--Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.

Recoverability Codes	Application/Explanation
O--	Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit level.
F--	Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level.
H--	Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D--	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L--	Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A--	Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer, (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE

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

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the following information:

- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) The physical security classification of the item is indicated by the parenthetical entry, e.g., Phy Sec C1 - Confidential, Phy Sec C1 (S) - Secret, Phy Sec C1 (T) - Top Secret.

- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
- (5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.
- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).
- (7) The usable on code, when applicable (see paragraph 5, Special Information).
- (8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.
- (9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.
- (10) The indenture, shown as dots appearing before the repair part, indicates that the item is a repair part of the next higher assembly.

f. QTY (Column (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and may vary from application to application.

4. EXPLANATION OF COLUMNS (Section IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

- (1) STOCK NUMBER column.** This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the

$$\begin{array}{c} \text{NSN} \\ \hline \text{NSN, i.e. (5305-01-574-1467).} \\ \text{NIIN} \end{array}$$

When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

- (2) FIG. column.** This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

- (3) **ITEM column.** The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

- (1) **FSCM column.** The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- (2) **PART NUMBER column.** Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.
- (3) **STOCK NUMBER column.** This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.
- (4) **FIG. column.** This column lists the number of the figure where the item is identified/located in Sections II and III.
- (5) **ITEM column.** The item number is that number assigned to the item as it appears in the figure referenced in adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX.

- (1) **FIG. column.** This column lists the number of the figure where the item is identified/located in Section II and III.
- (2) **ITEM column.** The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.
- (3) **STOCK NUMBER column.** This column lists the NSN for the item.
- (4) **FSCM column.** The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- (5) **PART NUMBER column.** Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

5. SPECIAL INFORMATION.

a. USABLE ON CODE. The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC:" in the Description Column (justified left) on the last line applicable item description/ nomenclature. Uncoded items are applicable to all models.

b. ASSOCIATED PUBLICATIONS. The publication listed below pertains to the Air Compressor and its components.

Publication	Short Title
TM 5-4310-381-13	Compressor Unit, Rotary, Air, 60 CFM/6.5 PSI

6. HOW TO LOCATE REPAIR PARTS.

a. When National Stock Number or Part Number is NOT Known.

- (1) **First.** Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.
- (2) **Second.** Find the figure covering the assembly group or subassembly group to which the item belongs.
- (3) **Third.** Identify the item on the figure and note the item number.
- (4) **Fourth.** Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.
- (5) **Fifth.** Refer to the Part Number Index to find the NSN, if assigned.

b. When National Stock Number or Part Number is Known:

- (1) **First.** Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4a(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph 4b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.
- (2) **Second.** After finding the figure and item number, verify that the item is the one you are looking for, then locate the item number in the repair parts list for the figure.

7. ABBREVIATIONS.

Abbreviations used in this manual are listed in MIL-STD-12.

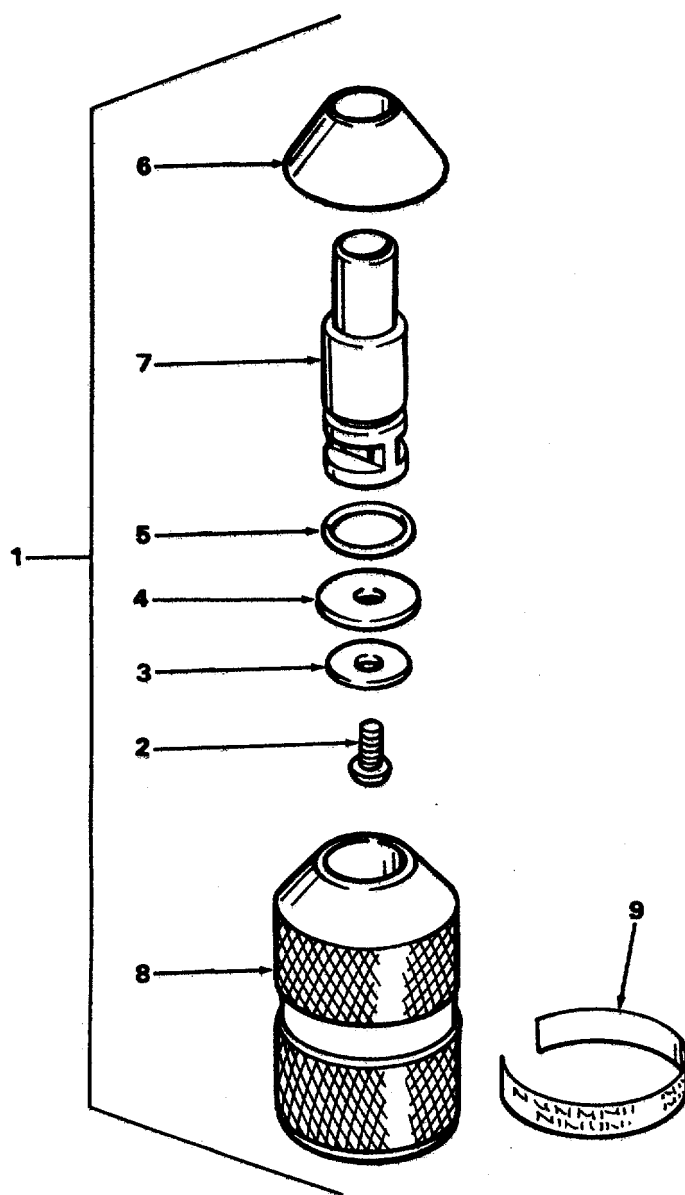


Figure 1. Inflator valve

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 01 VALVE ASSEMBLY, INFLATOR

FIG. 1 INFLATOR VALVE

1	PBOOO	04718	86-485	VALVE ASSY, INFLATE	2
2	PAOZZ	04718	86-485-7	SCREW, CAP, SOCKET HE SOCKET TYPE, 1/ 4-28 X 1/2 IN. LG, CAD PLATED STEEL	1
3	PAOZZ	04718	86-485-3	WASHER, FLAT 9/32 IN. ID X 1 IN. OD. X 3/16 IN. THK, 17 GA STEEL, CAD PLATED.....	1
4	PAOZZ	04718	86-488	DISK, VALVE 1- 1/4 IN. OD X 1/4 IN. ID X 1/8 THK NEOPRENE SINGLE PLY	1
5	PCOZZ	04718	86-489	PACKING, PREFORMED 13/16 IN. ID. X 1 IN. OD. X 3/32 IN. CS (SPECIAL-SLANT CUT)	1
6	PCOZZ	04718	86-490	SEAL, NEOPRENE.....	1
7	PAOZZ	04718	86-487	CYLINDER VALVE ALUM.....	1
8	XAOZZ	04718	86-486	BODY, VALVE, ALUM.....	1
9	XCOZZ	04718	86-500	LABEL, NAMEPLATE	1

END OF FIGURE

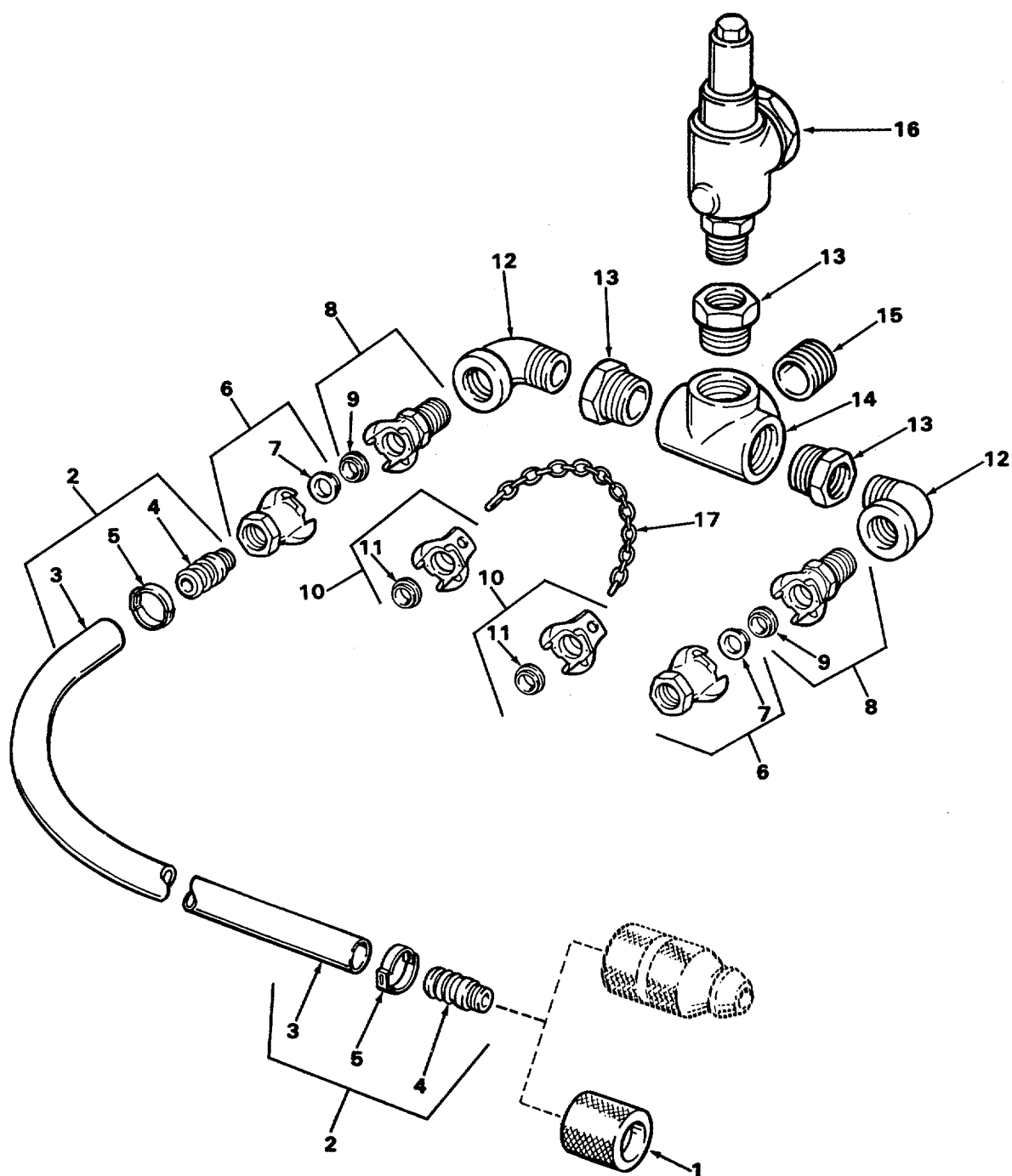


Figure 2. Air hose assembly fittings and couplings

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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**GROUP 02 AIR HOSE ASSEMBLY,
FITTINGS AND COUPLINGS**

**FIG. 2 AIR HOSE ASSEMBLY,
FITTINGS AND COUPLINGS**

1	PAOZZ	81349	MIL-C-138S9FIG2	NOZZLE, ALUMINUM FIGURE 2	2
2	AOOO	04718	86-370	HOSE ASSEMBLY, INCLUDES HOSE,	2
				ADAPTER, AND CLAMP	
3	PAOZZ	53496	DR50AX	HOSE, NONMETALLIC 25 FT LG X 1-1/4.....	25
				IN ID SPECIAL HOSE	
4	PADZZ	81349	MIL-C-13859FIG1	ADAPTER FIGURE 1.....	2
5	PAOZZ	25281	470R	CLAMP, HOSE NOMINAL SIZE 1-13/16.....	2
				IN. STAINLESS STEEL	
6	PAOZZ	72661	AM-13	COUPLING, HOSE 1 INCH FEMALE NPT	2
				ENDS, WITH PREFORMED PACKING	
7	PAOZZ	72661	AWR-4	PACKING, PREFORMED	2
8	PAOZZ	72661	AM-12	COUPLING HALF, QUICK 1.0 IN. MALE	2
				NPT ENDS, SPEC WW-C-633, WITH PREFORMED PACKING	
9	PACZZ	72661	AWR-4	PACKING, PREFORMED	1
10	PAOZZ	72661	AM-0	CAP, AIR HOSE COUPLI WITH PREFORMED	2
				PACKING.....	
11	PAOZZ	72661	AWR-4	PACKING , PREFORMED	2
12	PBOZZ	82666	613-SIZE 1	ELBOW, PIPE 1 IN. NPT, 90 DEGREE.....	2
				ELBOW, GLVD STL, CLASS 150.....	
13	PBOZZ	82666	181-1-1/4X1	BUSHING, PIPE HEXAGON HEAD, 1-1/4	3
				IN. X 1 IN. NPT, GLVD STL	
14	PBOZZ	82666	635-SIZE 1	TEE, PIPE SIDE OUTLET, 1-1/4 IN. NPT,	1
				GLVD STL	
15	PBOZZ	96906	MS51953-145	NIPPLE, PIPE	1
16	PBOZZ	34454	87-C-1 IN. MPT	VALVE, RELIEF, PRESSU INLET MALE 1	1
				IN NPT--OUTLET FEMALE 1-1/4 IN	
				NPT-PRESSURE SETTING: 6.5 PSI ,	
				NON-ADJUSTABLE.....	
17	PAOZZ	04718	86-148	CHAIN, WELDLESS, 18 IN LG	1

END OF FIGURE

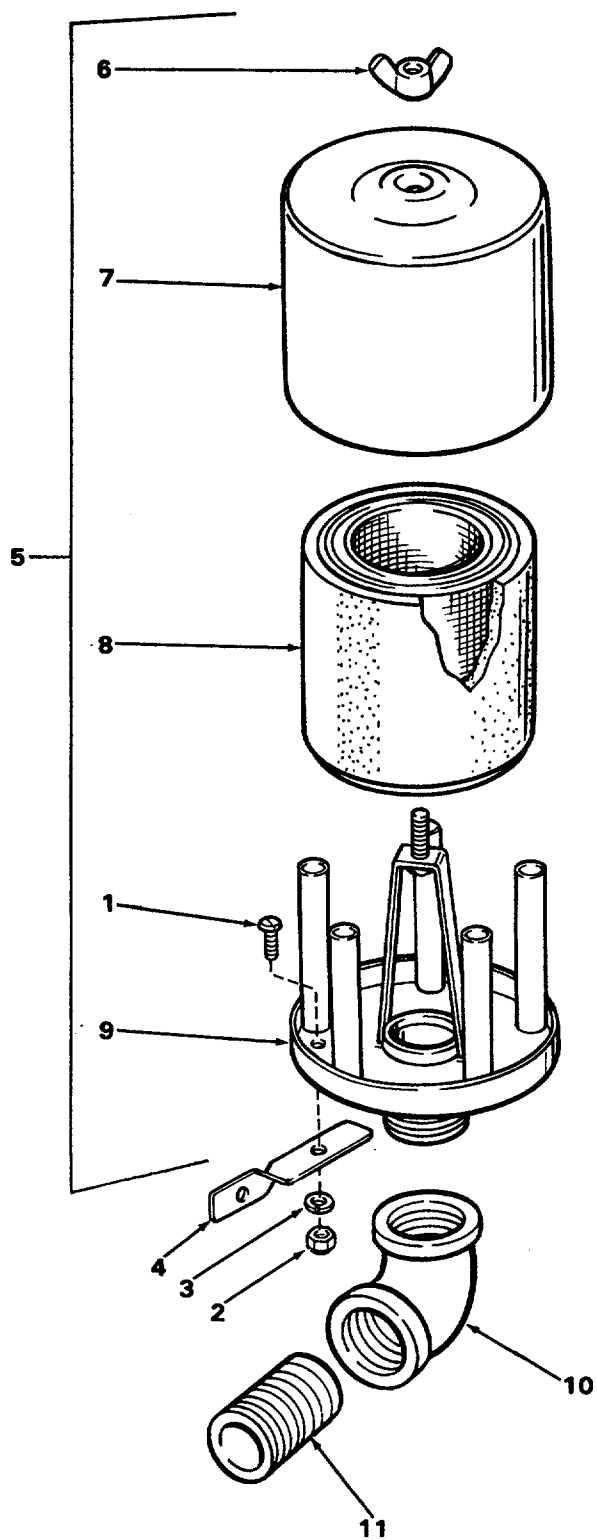


Figure 3. Filter assembly

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 03 FILTER ASSEMBLY AND FITTINGS

FIG. 3 FILTER ASSEMBLY

1	PAOZZ	96906	MS90725-3	SCREW, CAP, HEXAGON.....	1
2	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON.....	1
3	PBOZZ	96906	MS35338-44	WASHER, LOCK	1
4	PBOZZ	04718	86-382	BRACKET, INTAKE, AIR	1
5	PBOOO	66343	FS-19P-125	AIR CLEANER, INTAKE INTAKE.....	1
6	PAOZZ	96906	MS35425-39	NUT, PLAIN, WING	1
7	XAOZZ	66343	FS-19-125-2	COVER, FILTER.....	1
8	PAOZZ	66343	19P	FILTER ELEMENT, INTA POLYESTER;.....	1
				WASHABLE.....	
9	XAOZZ	66343	FS-19-125-1	BODY, FILTER	1
10	PBOZZ	82666	601X1-1/4	ELBOW, PIPE 1-1/4 IN. NPT, GLVD STL	1
11	PAOZZ	96906	MS51953-149	NIPPLE, PIPE.....	1

END OF FIGURE

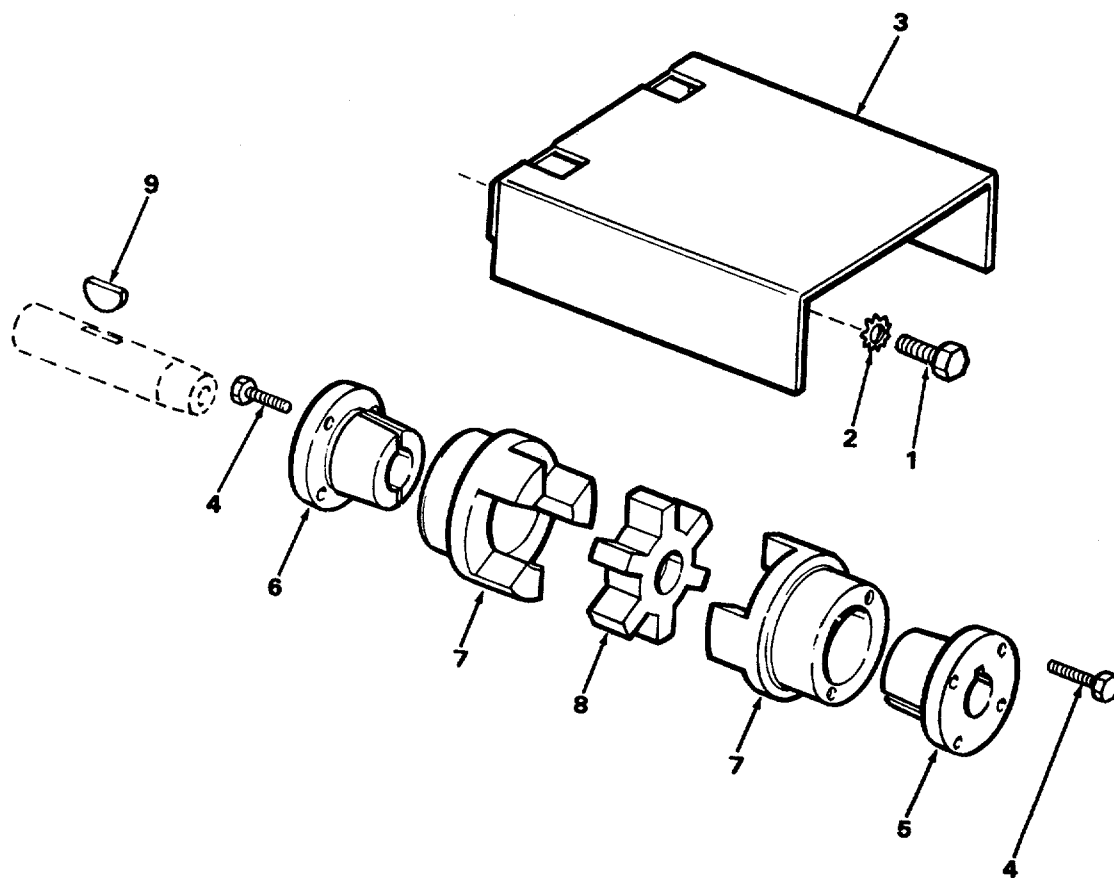


Figure 4. Guard and drive couplings

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 04 GUARD AND DRIVE COUPLINGS

FIG. 4 GUARD AND DRIVE COUPLINGS

1	PAOZZ	96906	MS90725-3	SCREW, CAP, HEXAGON H HEAD	2
2	PAOZZ	96906	MS35335-33	WASHER, LOCK(ENGINE ASSEMBLY	2
				MOUNTING HARDWARE).....	
3	XDOZZ	04718	86-463	GUARD.....	1
4	PAOZZ	96906	MS90728-6	SCREW, CAP, HEXAGON H HEAD	4
5	XDOZZ	71176	H-3/4	BUSHING, TAPERED	1
6	XDOZZ	71176	H-5/8	BUSHING, PULLEY	1
7	XOOZZ	71176	CHJS5H	COUPLING, DRIVE	2
8	PAOZZ	71176	JS5N	INSERT, FLEXIBLE COU NEOPRENE.....	1
9	PAOZZ	96906	MS35756-34	KEY, WOODRUFF	1

END OF FIGURE

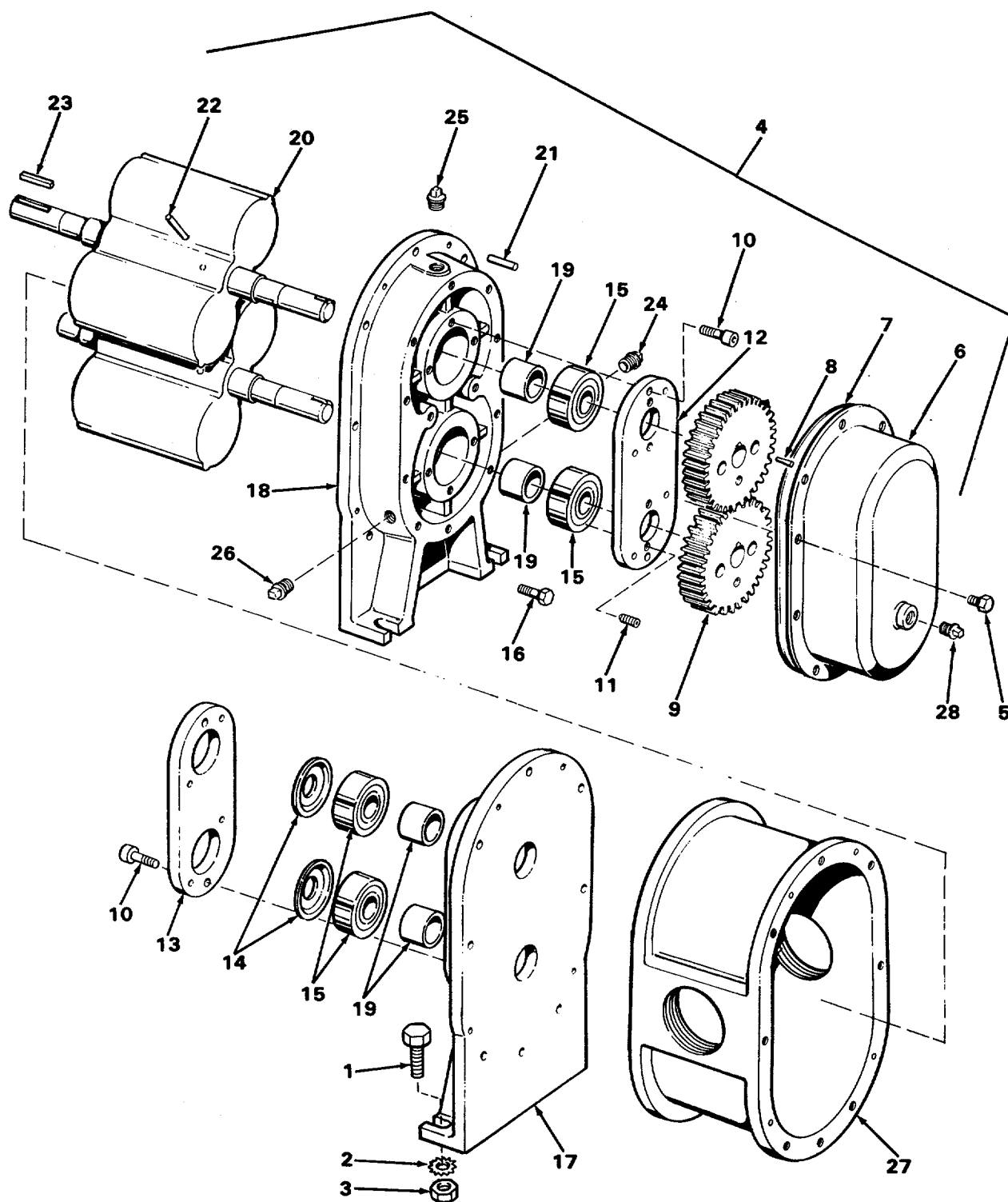


Figure 5. Blower/pump

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 45 BLOWER/PUMP

FIG. 5 BLOWER/PUMP

1	PAOZZ	96906	MS90728-60	SCREW, CAP, HEXAGON H HEAD	4
2	PAOZZ	96906	MS35335-35	WASHER, LOCK	4
3	PAOZZ	96906	MS51967-8	NUT, PLAIN, HEXAGON.....	4
4	PBOFH	58626	2X3V-5	BLOWER ASSEMBLY, COM.....	1
5	PAOZZ	96906	MS51849-75	SCREW, MACHINE HEXAGON HEAD	10
6	XDOZZ	58626	900-71-3-C207-01	CASE GEAR.....	1
7	PAOZZ	58626	2INCOVGAS	GASKET, GEAR CASE MATERIAL: 1/32	1
				IN. FIBER SHEET (HHP96 TYPE 1)	
8	XAFZZ	96906	MS24692-215	PIN, TAPER.....	2
9	XAFZZ	58626	900-67-9-2101-02	GEAR, TIMING SET	1
10	XAFZZ	96906	MS16997-45	SCREW, CAP, SOCKET HE HEAD.....	8
11	XAFZZ	96906	MS18065-1	SETSCREW, SOCKET HEAD	4
12	XAFZZ	58626	900-63-3-0696-02	RETAINER, BEARING	1
13	XAFZZ	58626	900-66-3-0780-02	RETAINER, SPRING	1
14	XAFZZ	58626	900-66-9-1708-02	WASHER, WAVY SPRING	2
15	XAFZZ	58626	900-66-1-0388-02	BEARING, MAIN.....	4
2	XAHZZ	96906	MS90725-5	SCREW CAP HEXAGON.....	16
17	XAFZZ	58626	900-66-3-0693-02	HEAD PLATE, DRIVE.....	1
18	XAFZZ	58626	900-66-3-0694-02	HEAD PLATE, GEAR.....	1
19	XAFZZ	58626	900-66-3-0692-02	SLEEVE.....	4
20	XAFZZ	58626	900-69-3-0226-02	IMPELLER ASSEMBLY	1
21	XAFZZ	96906	MS16555-46	PIN, STRAIGHT, HEADLE.....	8
22	XAFZZ	96906	MS35674-29	PIN, GROOVE, HEADLES.....	2
23	PFOZZ	58626	900-63-9-9101-02	KEY, MACHINE	1
24	PFOZZ	58626	900-86-1-0207-01	PLUG, PIPE, MAGNETICS	1
25	PFOZZ	58626	900-63-9-6501-02	PLUG, VENT COMPRESSOR	1
26	PFOZZ	96906	MS20913-1S	PLUG, PIPE SQUARE HEAD	1
27	XAFZZ	58626	900-66-3-0695-02	CASE, IMPELLER.....	1
28	PFOZZ	96906	MS20913-4S	PLUG, PIPE.....	1

END OF FIGURE

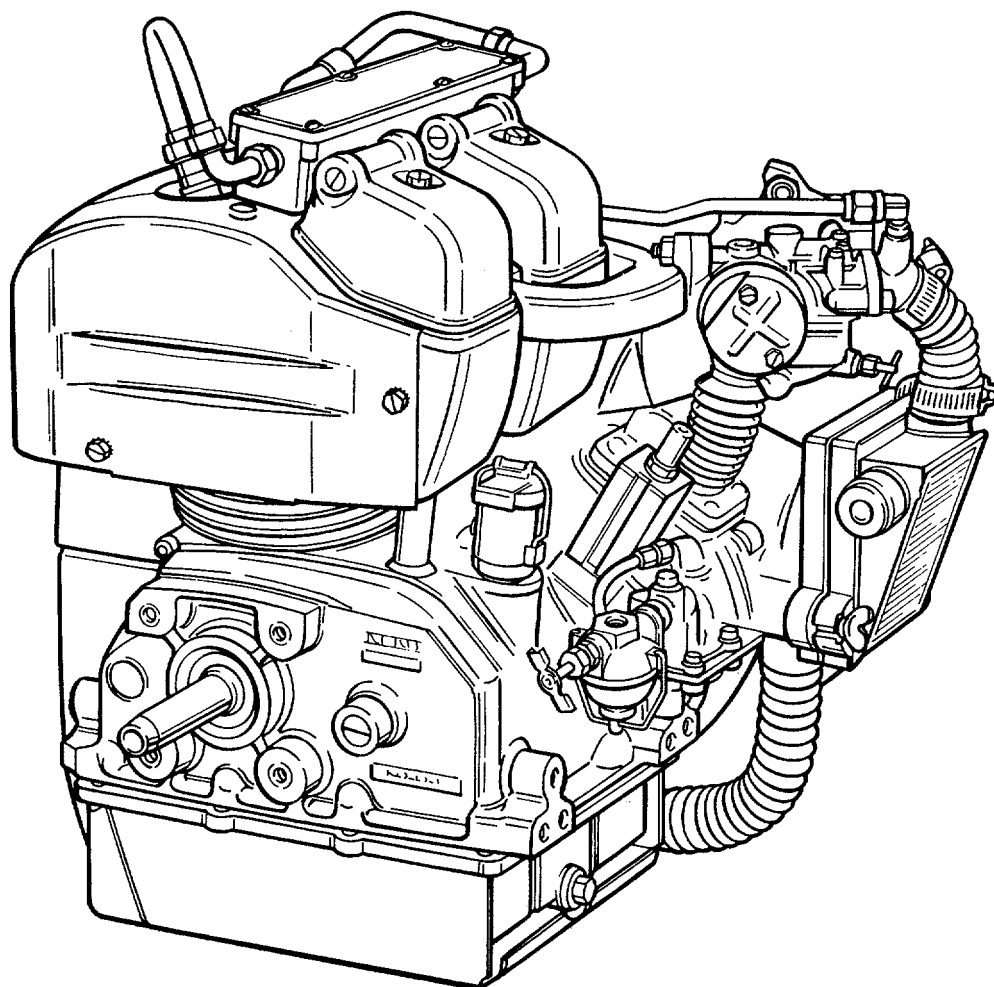


Figure 6. Engine assembly

SECTION II				TM 5-4310-381-23P
(1)	(2)	(3)	(4)	(5)
ITEM	SMR		PART	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC) QTY

GROUP 06 ENGINE ASSEMBLY

FIG. 6 ENGINE ASSEMBLY

1	PBOFH	97403	2A016-4	ENGINE, GASOLINE (SEE TM 5-2805-257- 24P FOR REPAIR PARTS BREAKDOWN).....	1
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END OF FIGURE

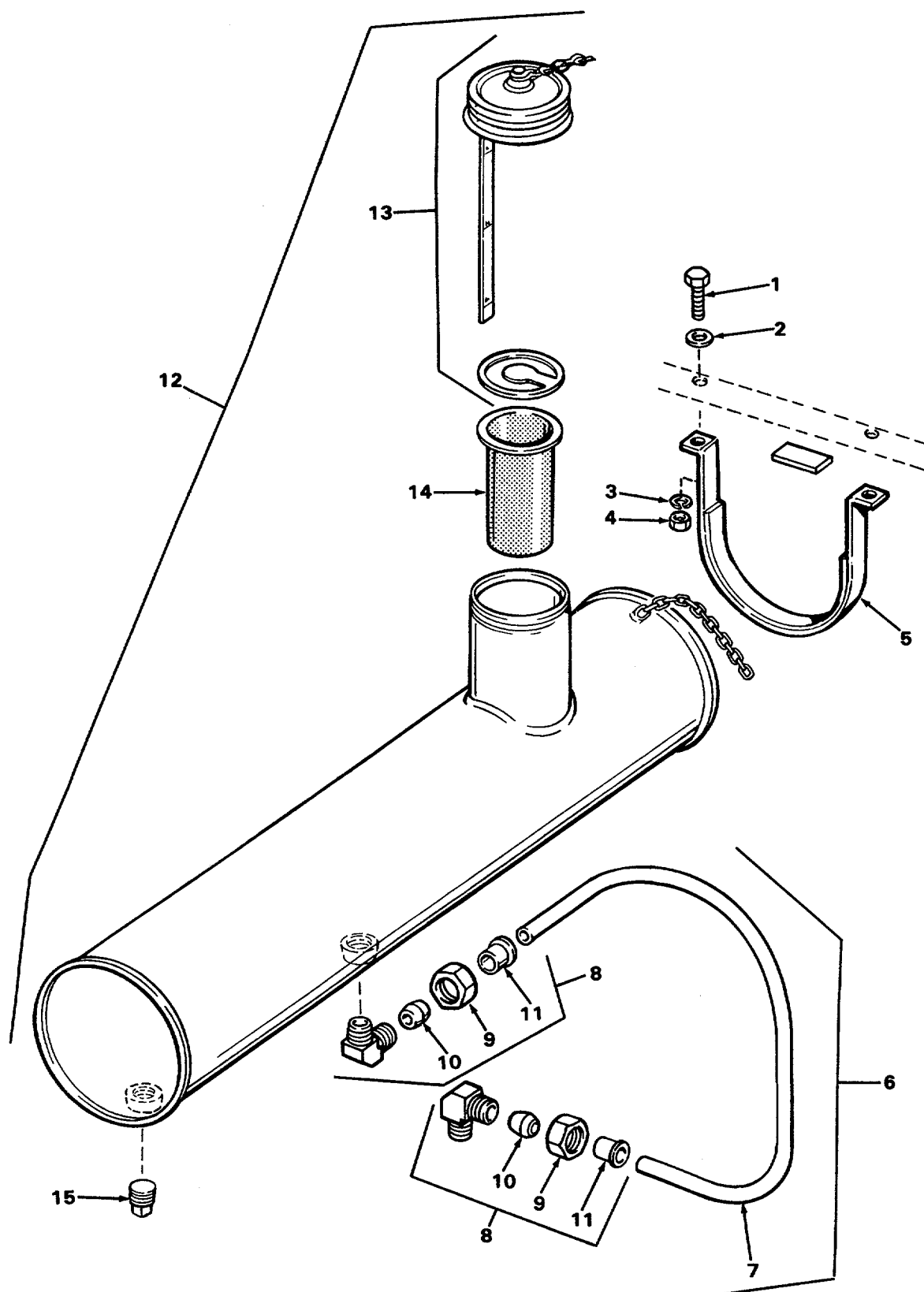


Figure 7. Gasoline tank

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 07 FUEL TANK, HOSE AND FITTINGS

FIG. 7 GASOLINE TANK

1	PAOZZ	96906	MS90728-12	SCREW, CAP, HEXAGON H HEAD	4
2	PAOZZ	96906	MS27183-9	WASHER, FLAT	4
3	PAOZZ	96906	MS35335-33	WASHER, LOCK	2
4	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON	2
5	XDOZZ	04718	86-375	STRAP ASSEMBLY, TANK, 18 GA , (.0456)-	2
6	AOOOZ	04718	86-116	STEEL PLATE	1
				HOSE ASSEMBLY, FUEL 1/4 IN. OD X.....	
				035 WALL X 9 IN. LG- NYLON HOSE & 2	
				MALE ELBOW NT FITTINGS 1/4	
				IN TUBE X 1/4 IN. NPT	
7	PAOZZ	04718	86-116/03	HOSE, FUEL, NYLON, 1/4 IN. OD. X	18
				0.035 IN. THK X 18.0 IN. LG.....	
8	PBOOO	30780	269NT-4-4	ELBOW, PIPE TO TUBE TUBE, BRASS, 1/4	2
				IN. OD. X 1/4 IN. NPT	
9	PAOZZ	93061	61NTA-4	NUT, TUBE COUPLING (TUBE SIZE 1/4	2
				IN. OD X 7/16-24; STR THREAD)	
10	PAOZZ	30780	63NTA-4	INSERT, TUBE FITTING(1/4	2
				IN. OD TUBE SIZE; STAINLESS STEEL)	
11	PAOZZ	93061	60NTA-4	SLEEVE, COMPRESSION (1/4.....	2
				IN. OD. TUBE SIZE; BRASS)	
12	XDOOZ	04718	86-129	TANK, FUEL, ENGINE FUEL, 21 GAL.....	1
13	PAOOO	04718	86-129-3	CAP, FILLER ASSEMBLY (INCLUDES.....	1
				DIPSTICK, GASKET AND CHAIN)	
14	PBOZZ	04718	86-129-8	STRAINER, ELEMENT, SE.....	1
15	PAOZZ	96906	MS20913-1S	PLUG, PIPE.....	1

END OF FIGURE

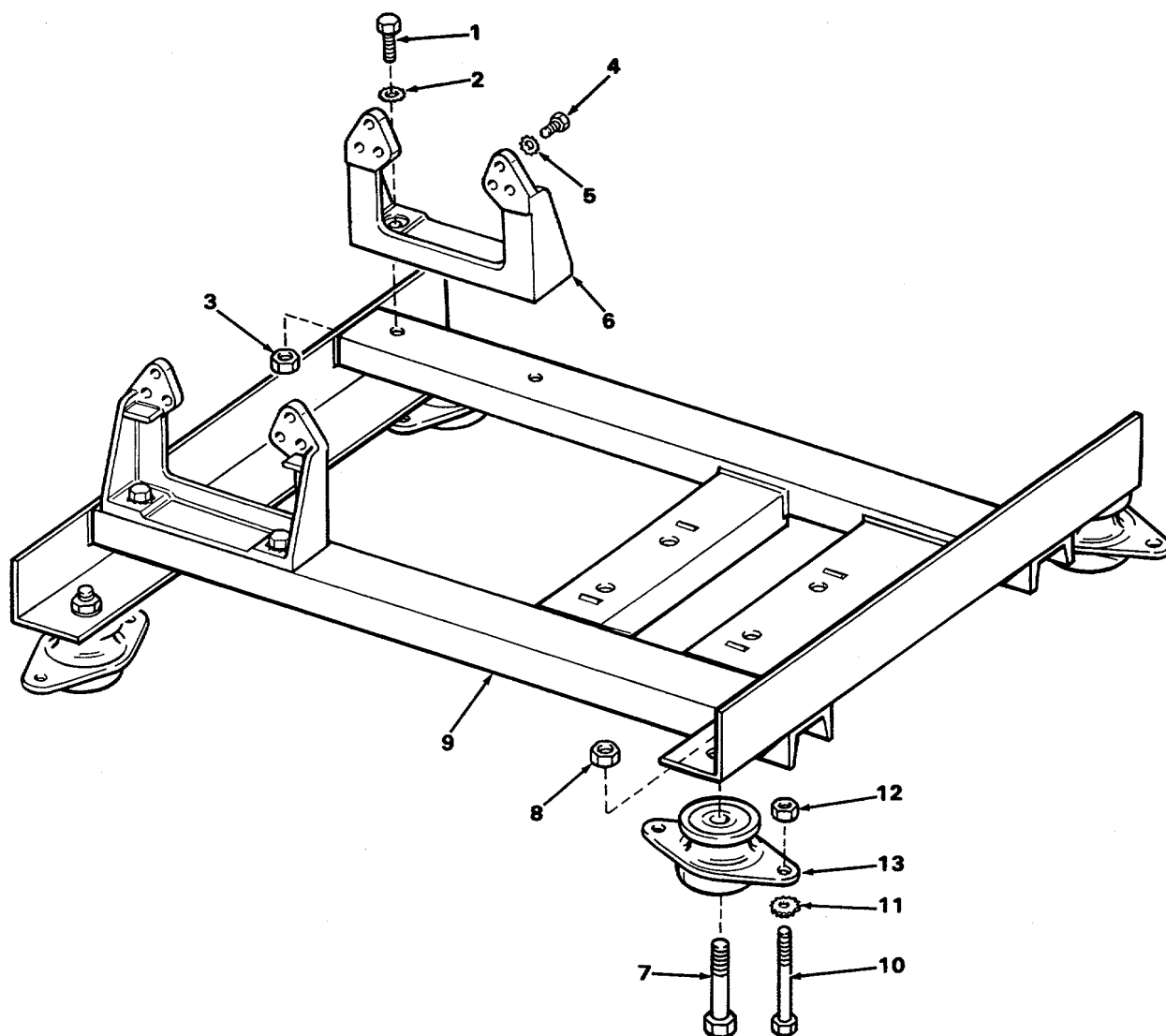


Figure 8. Base and mounts

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 08 BASE AND MOUNTS

FIG. 8 BASE AND MOUNTS

1	PAOZZ	96906	MS90728-64	SCREW, CAP, HEXAGON H HEAD	4
2	PAOZZ	96906	MS35335-35	WASHER, LOCK	4
3	PAOZZ	96906	M551967-8	NUT, PLAIN, HEXAGON.....	12
4	PAOZZ	96906	MS90725-6	SCREW, CAP, HEXAGON H.....	12
5	PAOZZ	96906	M535335-33	WASHER, LOCK	12
6	XDOZZ	04718	86-113	BRACKET, SUPPORT, ENGINE; ALUMINUM	2
7	PAOZZ	96906	MS90728-57	SCREW, CAP, HEXAGON H HEAD	4
8	PAOZZ	96906	MS51967-8	NUT, PLAIN, HEXAGON.....	4
9	XDOZZ	04718	86-376	BASE, MOUNTING, ENGINE; STEEL	1
10	PAOZZ	96906	MS90728-8	SCREW, CAP, HEXAGON H.....	8
11	PAOZZ	96906	MS35335-33	WASHER, LOCK	8
12	PACZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON.....	8
13	PBOZZ	81860	506-1NS	MOUNT, RESILIENT	4

END OF FIGURE

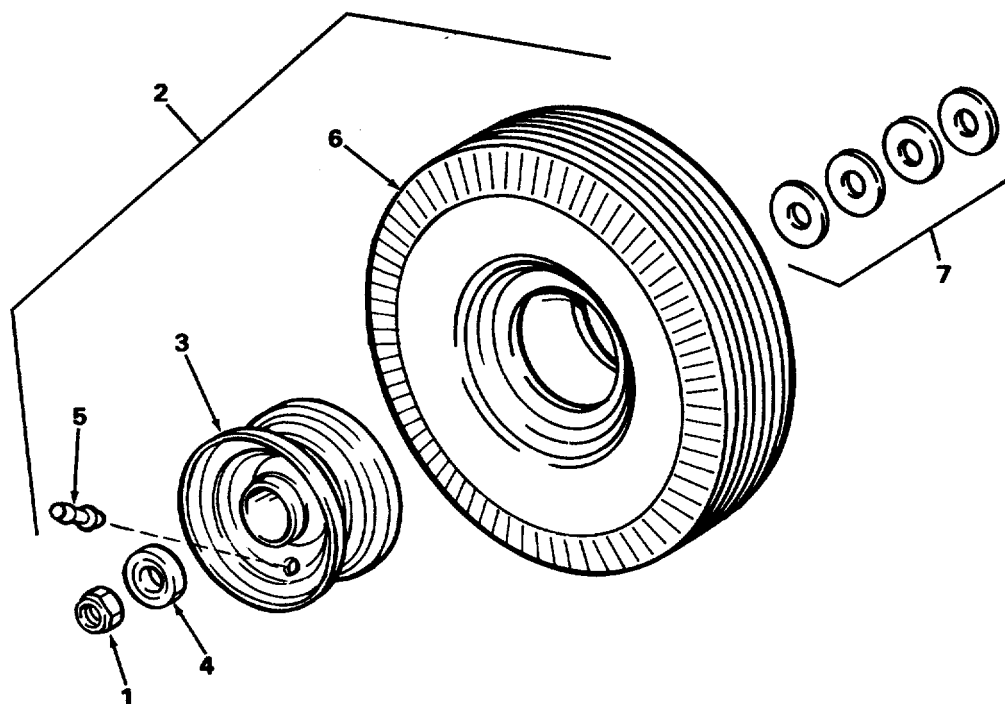


Figure 9. Wheel assembly

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 09 WHEEL ASSEMBLY AND AXLE

FIG. 9 WHEEL ASSEMBLY

1	PAOZZ	96906	MS35691-57	NUT, PLAIN, HEXAGON	2
2	PBOOO	55879	4045-38W9-1770	WHEEL ASSEMBLY (INCLUDES BEARINGS,..... TIRE AND RIM)	2
3	XDOZZ	55879	38W9	WHEEL.....	1
4	PBOZZ	73134	RF12-22-14-APJ	BEARING, BALL	2
5	PAOZZ	17875	T-12-R	VALVE, PNEUMATIC TIR.....	1
6	PBOOO	83187	410/350-4-2 PLY	TIRE	1
7	PAOZZ	96906	MS27183-23	WASHER, FLAT	8

END OF FIGURE

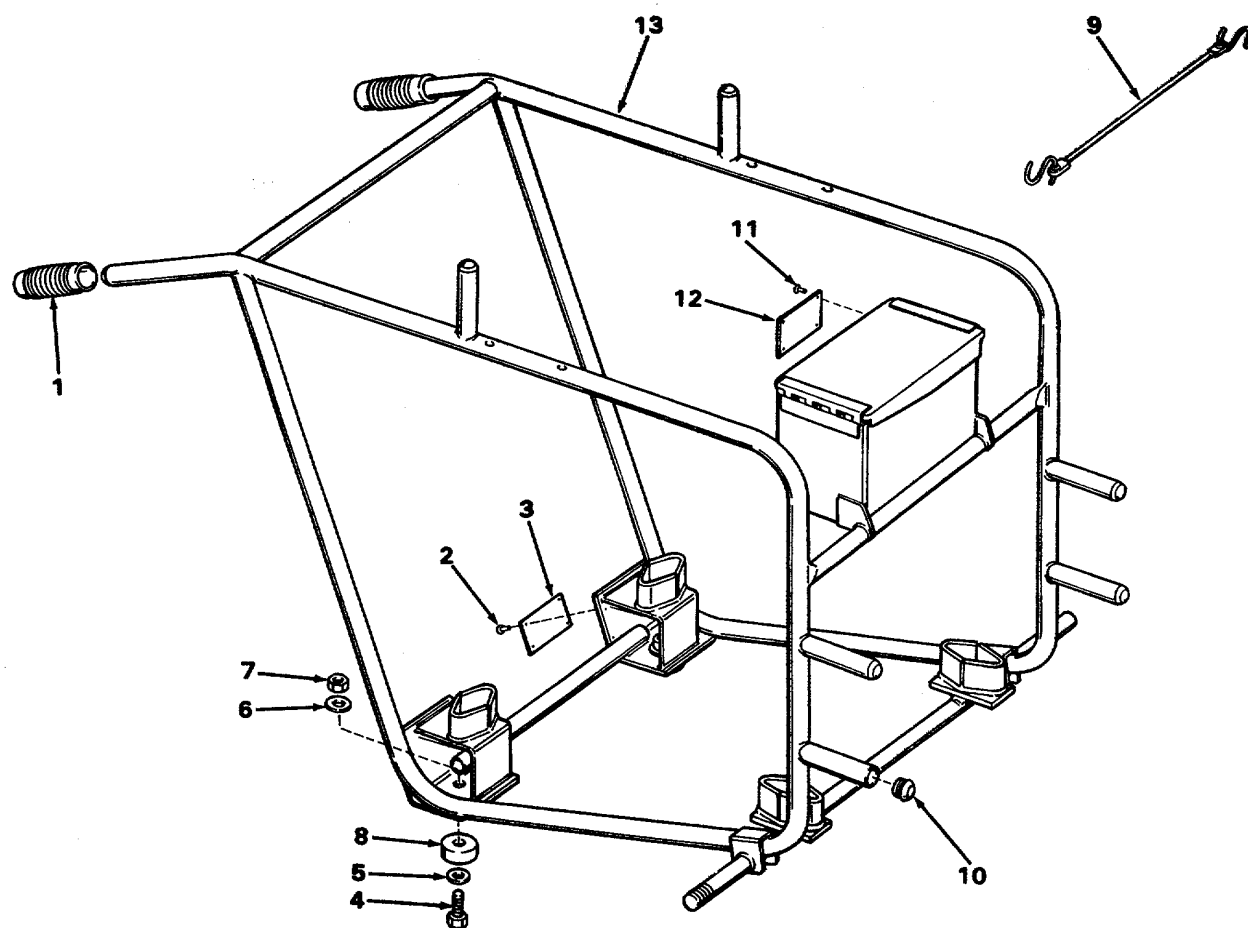


Figure 10. Frame assembly

SECTION II

TM 5-4310-381-23P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 10 FRAME ASSEMBLY

FIG. 10 FRAME ASSEMBLY

1	PAOZZ	98124	RG-1IN	GRIP HANDLE (TUBE SIZE 10 IN. OD. X 4-1/2 IN. LG. ,VINYL)	2
2	PACZZ	96906	MS20470A4-4	RIVET, SOLID 1/8 IN. DIA. X 0.250 IN LG.	4
5	PAOZZ	96906	MS35333-4C	WASHER, LOCK	2
3	XCOZZ	04718	86-464	PLATE, ID	1
4	PAOZZ	96906	MS90728-8	SCREW, CAP, HEXAGON H HEAD	2
6	PAOZZ	96906	MS27183-9	WASHER, FLAT	2
7	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON	1
8	PAOZZ	04718	88-000	BUMPER, RUBBER	2
9	PAOZZ	04718	86-381	TIEDOWN, CARGO VEHI RETAINING RUBBER TIE DOWN STRAP, NEOPRENE , 1.0 IN. X 15.0 IN. LG. WITH 1 IN. DIA.	2
				"S" HOOKS	
10	PACZZ	81044	ECI-25	CAP, TUBE	4
11	PAOZZ	96906	MS20470A4-4	RIVET, SOLID	4
12	XCOZZ	04718	86-149	PLATE, NOISE WARNING	1
13	XDOOO	04718	86-379	FRAME ASSEMBLY	1

END OF FIGURE

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5315-00-043-1787	4	9	4620-01-269-7252	1	1
4730-00-044-0360	5	25	5330-01-269-7253	1	6
5305-00-068-0500	3	1	4220-01-269-7254	1	7
	4	1	5330-01-269-7255	5	7
5305-00-068-0502	8	4	2910-01-269-7256	7	13
5305-00-068-0508	4	4	3110-01-265-7257	9	4
5305-00-068-0510	5	1	4310-01-269-7258	5	4
5305-00-071-2509	7	1	4010-01-269-7277	2	17
5310-00-080-8495	3	6	4730-01-269-7278	2	12
4730-00-196-1470	2	15	4130-01-269-7279	3	10
4730-00-196-1527	3	11	5330-01-269-7281	1	5
5310-00-209-0786	4	2	4310-01-269-7283	3	5
	7	3	5310-01-269-7287	1	3
	8	5	5305-01-269-7288	1	2
	8	11	4820-01-269-7289	2	16
4730-00-221-2136	5	26	2030-01-269-7290	9	2
	7	15	2910-01-269-7291	7	14
4730-00-221-2139	5	28	4730-01-269-7293	5	24
5305-00-225-3843	8	10	4820-01-269-7296	1	4
	10	4	3990-01-269-7297	10	9
4720-00-278-4916	2	3	2940-01-269-7298	3	4
4730-00-369-4595	2	8	4310-01-269-7299	3	8
5310-00-550-1130	10	5	4730-01-270-0708	10	10
4310-00-567-1596	2	10	5315-01-270-2990	5	23
5310-00-582-5965	3	3	4130-01-270-2992	2	6
5320-00-584-9078	10	2	4730-01-270-2993	2	13
	10	11	5340-01-270-3038	8	13
5310-00-627-6128	5	2			
	8	2			
5305-00-721-5492	8	7			
5305-00-725-2317	8	1			
5310-00-732-0558	5	3			
	8	3			
	8	8			
5310-00-761-6882	3	2			
	7	4			
	8	12			
	10	7			
5310-00-809-8533	9	7			
5310-00-823-8804	7	2			
	10	6			
5310-00-838-1702	9	1			
3010-00-854-4927	4	8			
5305-01-006-2053	5	5			
4730-01-045-2595	7	8			
4730-01-048-5261	7	11			
4730-01-048-6968	7	9			
5340-01-079-4653	10	8			
2805-01-169-1100	6	1			
4730-01-269-3880	2	14			

CROSS-REFERENCE INDEXES

FSCM	PART NUMBER	PART NUMBER INDEX		FIG.	ITEM
			STOCK NUMBER		
72661	AM-0		4110-00-567-1596	2	10
72661	AM-12		4730-00-369-4595	2	8
72661	AM-13		4730-01-2'70-2992	2	6
72661	AWR-4			2	7
				2	9
				2	11
71176	CHJS5H			4	7
53496	DR50AX		4720-00-278-4916	2	3
81044	ECI-25		4730-01-270-0708	10	10
66343	FS-19-125-1			3	9
66343	FS-19-125-2			3	7
66343	FS-19P-125		431001-269-7283	3	5
71176	H-3/4			4	5
71176	H-5/8			4	6
71176	JS5N		3010-00-854-4927	4	8
81349	MIL-C-13899FIG1			2	4
81349	MIL-C-13899FIG2			2	1
96906	MS16555-46			5	21
96906	MS16997-45			5	10
96906	MS18065-19			5	11
96906	MS20470A4-4		5320-00-584-9078	10	2
				10	11
96906	MS20913-1S		4730-00-221-2136	5	26
				7	15
96906	MS20913-4S		4730-00-221-2139	5	28
96906	MS24692-215			5	8
96906	MS27183-23		5310-00-809-8533	9	7
96906	MS27183-9		5310-00-823-8804	7	2
				10	6
96906	MS35333-40		5310-00-550-1130	10	5
96906	MS35335-33		5310-00-209-0786	4	2
				7	3
				8	5
				8	11
96906	MS35335-35		5310-00-627-6128	5	2
				8	2
96906	MS35338-44		5310-00-582-5465	3	3
96906	M535425-39		5310-00-080-8495	3	6
96906	MS35674-29			5	22
96906	MS35691-57		5310-00-838-1702	9	1
96906	MS35756-34		5315-00-043-1787	4	9
96906	MS51849-75		5305-01-006-2053	5	5
96906	MS51953-145		4730-00-196-1470	2	15
96906	MS51953-149		4730-00-196-1527	3	11
96906	MS51967-2		5310-00-761-6882	3	2
				7	4
				8	12
				10	7
96906	M551967-8		5310-00-732-0558	5	3
				8	3
				8	8

CROSS-REFERENCE INDEXES

FSCM	PART NUMBER	PART NUMBER INDEX		FIG.	ITEM
			STOCK NUMBER		
96906	MS90725-3		5305-00-068-0500	3	1
				4	1
96906	MS90725-5			5	2
96906	MS90725-6		5305-00-068-0502	8	4
96906	MS90728-12		5305-00-071-2509	7	1
96906	MS90728-57		5305-00-721-5492	8	7
96906	MS90728-6		5305-00-068-0508	4	4
96906	MS90728-60		5305-00-468-0510	5	1
96906	MS90728-64		5305-00-725-2317	8	1
96906	MS90728-8		5305-00-225-3843	8	10
				10	4
73134	RF12-22-14-APJ		3110-01-269-7257	9	4
98124	RG-1IN			10	1
17875	T-12-R			9	5
82666	181-1-1/4X1		4730-01-270-2993	2	13
66343	19P		4310-01-269-7299	3	8
97403	2A016-4		2805-01-169-1100	6	1
58626	2INCOVGAS		5330-01-269-7255	5	7
56626	2X3V-S		4310-01-269-7258	5	4
30780	269NT-4-4		4730-01-045-2595	7	8
55879	38W9			9	3
55879	4045-38W9-1770		2530-01-269-7290	9	2
83187	410/350-4-2PLY			9	6
25281	470R			2	5
81860	506-1NS		5340-01-270-3038	8	13
93061	60NTA-4		4730-01-048-5261	7	11
82666	601X1-1/4		4730-01-269-7279	3	10
93061	61NTA-4		4730-01-048-6968	7	9
82666	613-SIZE1		4730-01-269-7278	2	12
30780	63NTA-4			7	10
82666	635-SIZE1		4730-01-269-3880	2	14
04718	86-113			8	6
04718	86-116			7	6
04718	86-116/03			7	7
04718	86-129			7	12
04718	86-129-3		2910-01-269-7256	7	13
04718	86-129-8		2910-01-269-7291	7	14
04718	86-148		4010-01-269-7277	2	17
04718	86-149			10	12
04718	86-370			2	2
04718	86-375			7	5
04718	86-376			8	9
04718	86-379			10	13
04718	86-381		3990-01-269-7297	10	9
04718	86-382		2940-01-269-7298	3	4
04718	86-463			4	3
04718	86-464			10	3
04718	86-485		4820-01-269-7252	1	1
04718	86-485-3		5310-01-269-1287	1	3
04718	86-485-7		5305-01-269-7288	1	2
04718	86-486			1	8

CROSS-REFERENCE INDEXES

FSCM	PART NUMBER INDEX			
	PART NUMBER	STOCK NUMBER	FIG.	ITEM
04718	86-487	4220-01-269-7254	1	7
04718	86-488	4820-01-269-7296	1	4
04718	86-489	5330-01-269-7281	1	5
04718	86-490	5330-01-269-7253	1	6
04718	86-500		1	9
34454	87-C-1IN.MPT	4820-01-269-7289	2	16
04718	88-000	5340-01-079-4653	10	8
58626	900-63-3-0696-02		5	12
58626	900-63-9-6501-02	4730-00-044-0360	5	25
58626	900-63-9-9101-02	5315-01-270-2990	5	23
58626	900-66-1-0388-02		5	15
65826	900-66-3-0692-02		5	19
58626	900-66-3-0693-02		5	17
58626	900-66-3-0694-02		5	18
58626	900-66-3-0695-02		5	27
58626	900-66-3-0780-02		5	13
58626	900-66-9-1708-02		5	14
58626	900-67-9-2101-02		5	9
58626	900-69-3-0226-02		5	20
58626	900-71-3-0207-01		5	6
58626	900-86-1-0207-01	4730-01-269-7293	5	24

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	FSCM	
1	1	4820-01-269-7252	04718	86-485
1	2	5305-01-269-7288	04718	86-485-7
1	3	5310-01-269-7287	04718	86-485-3
1	4	4820-01-269-7296	04718	86-488
1	5	5330-01-269-7281	04718	86-489
1	6	5330-01-269-7253	04718	86-490
1	7	4220-01-269-7254	04718	86-487
1	8		04718	86-486
1	9		04718	86-500
2	1		81349	MIL-C-13899FIG2
2	2		04718	86-370
2	3	4720-00-278-4916	53496	DR50AX
2	4		81349	MIL-C-13899FIG1
2	5		25281	470R
2	6	4730-01-270-2992	72661	AM-13
2	7		72661	AWR-4
2	8	4730-00-369-4595	72661	AM-12
2	9		72661	AWR-4
2	10	4310-00-567-1596	72661	AM-0
2	11		72661	AWR-4
2	12	4730-01-269-7278	82666	613-SIZE 1
2	13	4730-01-270-2993	82666	181-1-1/4X1
2	14	4730-01-269-3880	82666	635-SIZE1
2	15	4730-00-196-1470	96906	MS51953-145
2	16	4820-01-269-7289	34454	87-C-1IN.MPT
2	17	4010-01-269-7277	04718	86-148
3	1	5305-00-068-0500	96906	MS90725-3
3	2	5310-00-761-6882	96906	PS51967-2
3	3	5310-00-582-5965	96906	MS35338-44
3	4	2940-01-269-7298	04718	86-382
3	5	4310-01-269-7283	66343	FS-19P-125
3	6	5310-00-080-8495	96906	MS35425-39
3	7		66343	FS-19-125-2
3	8	4310-01-269-7299	66343	19P
3	9		66343	FS-19-125-1
3	10	4730-01-269-7279	82666	601X1-1/4
3	11	4730-00-194-1927	96906	MS51953-149
4	1	5305-00-068-0508	96906	MS90725-3
4	2	5310-00-201-0786	96906	MS35335-33
4	3		04718	86-463
4	4	5305-00-068-0508	96906	MS90728-6
4	5		71176	H-3/4
4	6		71176	H-5/8
4	7		71176	CHJS5H
4	8	3010-00-854-4527	71176	JS5N
4	9	5315-00-043-1767	96906	MS35756-34
5	1	5305-00-068-0510	96906	MSS0728-60
5	2		96906	MS90725-5
5	2	5310-00-621-6128	96906	MS35335-35
5	3	5310-00-732-0558	96906	MS51967-8
5	4	4310-01-269-7258	58626	2X3V-S

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	FSCM	
5	5	5305-01-006-2053	96906	MS51849-75
5	6		58626	900-71-3-0207-01
5	7	5330-01-269-7255	58626	2INCOVGAS
5	8		96906	MS24692-215
5	9		58626	900-67-9-2101-02
5	10		96906	MS16997-45
5	11		96906	MS18065-19
5	12		58626	900-63-3-0696-02
5	13		58626	900-66-3-0780-02
5	14		58626	900-66-9-1708-02
5	15		58626	900-66-1-0388-02
5	17		58626	900-66-3-0693-02
5	18		58626	S00-66-3-0694-02
5	19		65626	900-66-3-0692-02
5	20		58626	900-69-3-0226-02
5	21		96906	MS16555-46
5	22		96906	MS35674-29
5	23	5315-01-270-2990	58626	900-63-9-9101-02
5	24	4730-01-269-72S3	58626	900-86-1-0207-01
5	25	4730-00-044-0360	58626	900-63-9-6501-02
5	26	4730-00-221-2136	96906	MS20913-1S
5	27		58626	900-66-3-0695-02
5	28	4730-00-221-2139	96906	MS20913-4S
6	1	2805-01-169-1100	97403	2A016-4
7	1	5305-00-071-2509	96906	MS90728-12
7	2	5310-00-823-8804	96906	MS27183-9
7	3	5310-40-209-0786	96906	MS35335-33
7	4	5310-00-761-6882	96906	MS51967-2
7	5		04718	86-375
7	6		04718	86-116
7	7		04718	86-116/03
7	8	4730-01-040-2595	30780	269NT-4-4
7	9	4730-01-048-6968	93061	61NTA-4
7	10		30780	63NTA-4
7	11	4730-01-046-5261	93061	60NTA-4
7	12		04718	86-129
7	13	2910-01-269-1256	04718	86-129-3
7	14	2910-00-260-7291	04718	86-129-8
7	15	4730-00-221-2136	96906	MS20913-1S
8	1	5305-00-725-2317	96906	MS90728-64
8	2	5310-00-627-6128	96906	M535335-35
8	3	5310-00-732-0558	96906	MS51967-8
8	4	5305-00-068-0502	96906	M590725-6
8	5	5310-00-209-0786	96906	MS35335-33
8	6		04718	86-113
8	7	5305-00-721-5492	96906	MS90728-57
8	8	5310-00-732-0558	96906	MS51967-8
8	9		04718	86-376
8	10	5305-00-225-3843	96906	MS90728-8
8	11	5310-00-209-0786	96906	MS35335-33
8	12	5310-00-761-6862	96906	MS51967-2

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	FSCM	
8	13	5340-01-270-3038	81860	506-1NS
9	1	5310-00-838-1702	96906	MS35691-57
9	2	2530-01-269-7290	55879	4045-38W9-1770
9	3		55879	38W9
9	4	3110-01-269-1257	73134	RF12-22-14-APJ
9	5		17875	T-12-R
9	6		83187	410/350-4-2 PLY
9	7	5310-00-809-8533	96906	MS27183-23
10	1		98124	RG-1IN
10	2	5320-00-584-9078	96906	MS20470A4-4
10	3		04718	86-464
10	4	5305-00-225-3843	96906	MS50728-8
10	5	5310-00-550-1130	96906	MS35333-40
10	6	5310-00-823-8804	96906	MS27183-9
10	7	5310-00-761-6882	96906	MS51967-2
10	8	5340-01-079-4653	04718	88-000
10	9	3990-01-269-7297	04718	E6-381
10	10	4730-01-270-0708	81044	ECI-25
10	11	5320-00-984-9078	96906	MS20470A4-4
10	12		04718	86-149
10	13		04718	86-379

By Order of the Secretary of the Army:

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

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25A, Unit and Intermediate, Direct Support and General Support Maintenance requirements for Compressor, Rotary, Air, Gas Engine, Frame Mounted, 2 Wheel, 60 CFM, 6.5 PSI (4MV)

TEAR ALONG PERFORATED LINE



FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE
NO.

PARA-
GRAPH

FIGURE
NO.

TABLE NO.

**IN THIS SPACE, TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT.**

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS
ARE OBSOLETE.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

The Metric System and Equivalents

Linear Measure

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

Weights

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

Liquid Measure

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

Square Measure

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

Cubic Measure

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

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

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