
TECHNICAL MANUAL

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

**DRILL, PNEUMATIC, DRIFTER:
BOOM-TYPE, CRAWLER-MOUNTED,
SELF-PROPELLED
(NSN 3820-00-445-3766)**

JOY MODEL RAM-MS-5/450A-DR

This manual supersedes TM 5-3820-241-24P, dated 20 September 1984, and all changes.

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

CHANGE

NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 30 March 1993

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Current as of 13 November 1992

TM 5-3820-241-24P, dated 8 May 1992, is changed as follows:

1. Remove old pages and insert new pages.
2. New or changed material is indicated by an asterisk in the margin of the page.

Remove Pages

Insert Pages

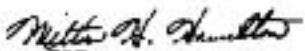
<i>2-1 and Figure 3</i>	<i>2-1 and Figure 3</i>
<i>10-1 and 10-2</i>	<i>10-1 and 10-2</i>
<i>27-1 through Figure 31</i>	<i>27-1 through Figure 31</i>
<i>33-1 and Figure 34</i>	<i>33-1 and Figure 34</i>
<i>35-1 and Figure 36</i>	<i>35-1 and Figure 36</i>
<i>37-1 and Figure 38</i>	<i>37-1 and Figure 38</i>
<i>41-1 and Figure 42</i>	<i>41-1 and Figure 42</i>
<i>44-1 through Figure 46</i>	<i>44-1 through Figure 46</i>
<i>KITS- 1</i>	<i>KIT-1</i>
<i>BULK-1</i>	<i>BULK-1</i>
<i>I-1 through I-48</i>	<i>I-1 through I-48</i>

3. File this change sheet in front of the publication for reference purposes.

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*Administrative Assistant to the
Secretary of the Army*

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To be distributed IAW DA Form 12-25-E (BLK 0695) Unit, Direct Support and General Support Maintenance Requirements for TM 5-3820-241-24P.

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

TECHNICAL MANUAL

TM 5-3820-241-24P*

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 8 May 1992

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Current as of 14 April 1992

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes 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 Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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* This manual supersedes TM 5-3820-241-24P, dated 20 September 1984, and all changes.

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

SECTION I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Unit, Direct Support, and General Support Maintenance of the Drill, Pneumatic, Drifter. 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 Section I. 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 kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in the section. Items listed are shown on the associated illustration(s)/figure(s).

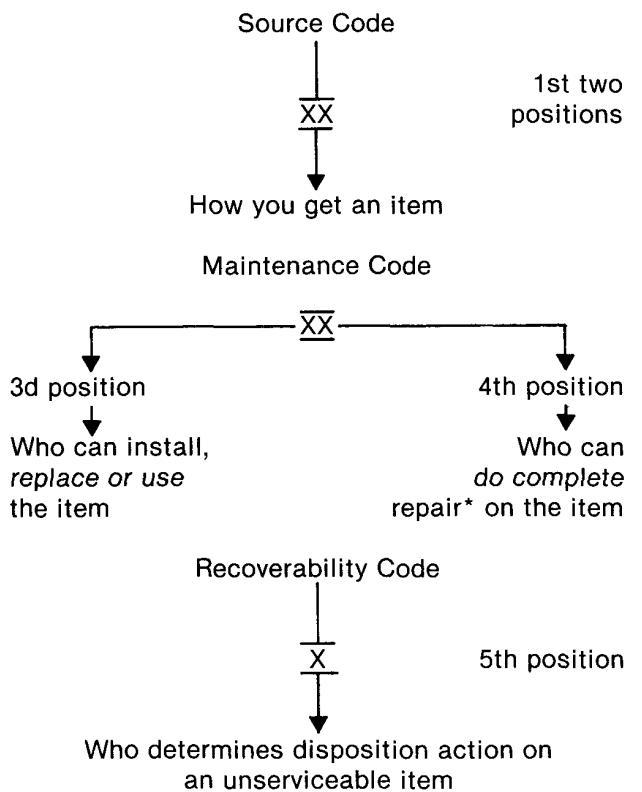
b. *Section III. Special Tools List.* A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. *Section IV Cross-reference 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 numbers in alphanumeric sequence and cross-references NSN, CAGE, and part numbers.

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 5position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition Instructions, 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

<u>Code</u>	<u>Application/Explanation</u>
PA	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.
PB	
PC**	
PD	
PE	
PE	
PF	** Items coded PC are subject to PG deterioration.

KD	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.
KF	
KB	

M0-Made at org/ AVUM category	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.
MF -Made at DS/ AVUM category	
MH-Made at GS category	
ML-Made at Specialized Repair Activity (SRA)	
MD-Made at Depot	

A0 –Assembled by org/AVUM category	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 item is assembled at a higher level, order the item from the higher level of maintenance.
AF –Assembled by DS/AVUM category	
AH –Assembled by GS category	
AL –Assembled by SRA	
AD –Assembled by Depot	

XA -	Do not requisition an "XA"-coded Item. Order its next higher assembly. (Also refer to the NOTE following.)
XB -	If an "XB" item is not available from salvage, order it using the CAGE and part number given.

XC-	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by the manufacturer's part number.
XD -	Item is not stocked. Order an "XD"-coded item through normal supply channels using the CAGE 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 tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(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 unit maintenance or aviation unit maintenance.
O -	Unit maintenance 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 -	Unit maintenance 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 than 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*- Nonreparable. No repair is authorized.
- B* - No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B"-coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.
- (3) *Recoverability Code.* Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR code as follows:
- | <u>Code</u> | <u>Application/Explanation</u> |
|-------------|---|
| <i>Z</i> - | Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the 3d position of the SMR code. |
| <i>O</i> - | Reparable item. When uneconomically reparable, condemn and dispose of the item at unit maintenance or aviation unit level. |
| <i>F</i> - | Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level. |
| <i>H</i> - | Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level. |
| <i>D</i> - | Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level. |
| <i>L</i> - | Reparable item. Condemnation and disposal of item not authorized below specialized repair activity (SRA). |
| <i>A</i> - | 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. *CAGEC (Column (3)).* The Commercial and Government Entity (CAGE) Code (C) is a 5-digit alphanumeric 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) Physical security classification. Not Applicable.
- (3) Items that are included in kits and sets are listed below the name of the kit or set on Figure KIT.
- (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). Not Applicable.
- (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.

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 the quantity may vary from application to application.

4. Explanation of Columns (Section IV).

a. *NATIONAL STOCK NUMBER (NSN) INDEX.*

(1) *STOCKNUMBER column.* This column lists the NSN by National Item Identification Number (NIIN)

sequence. The NIIN consists of the last nine

NSN

digits of the NSN (i.e., 5305-01-b74-1467). When

NIIN

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. *PARTNUMBER 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) *CAGEC column.* The Commercial and Government Entity (CAGE) Code (C) is a 5-digit alphanumeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) *PART NUMBER column.* 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) *STOCKNUMBER column.* This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and CAGE 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 the 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 Sections 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) *CAGE column.* The Commercial and Government Entity (CAGE) is a 5-digit alphanumeric

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. Not Applicable.

b. *FABRICATION INSTRUCTIONS.* Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the Description column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication Instructions for items source coded to be manufactured or fabricated are found in *TM 5-3820-241-12* and *TM 5-3820-241-34*.

c. *ASSEMBLY INSTRUCTIONS.* Detailed assembly instructions for Items source coded to be assembled from component spare/repair parts are found in *TM 5-3820-241-12* and *TM 5-3820-241-34*. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. *KITS.* Line item entries for repair parts kits appear in group 9401 in Section II.

e. *INDEX NUMBERS.* Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

f. *ASSOCIATED PUBLICATIONS.* The publications listed below pertain to the Drill, Pneumatic, Drifter, and its components:

Publication	Short Title
LO 5-3820-241-12-1	Drill, Pneumatic,Drifter, Boom-Type, Joy Model RAM-MS-5/450A-DR
LO 5-3820-241-12-2	Drill, Pneumatic,Drifter, Boom-Type, Joy Model RAM-MS-5/450A-DR
TM 5-3820-241-12	Drill, Pneumatic,Drifter, Boom-Type, Joy Model RAM-MS-5/450A-DR

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 use the Figure and Item Number Index to find the NSN.

b. *When National Stock Number or Part Number Is Known:*

(1) *First.* Using the National Stock Number or Part Number Index, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see paragraph 4.a.(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph 4.b). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2) *Second.* Turn to the figure and Item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations.

For standard abbreviations see MIL-STD-12D, *Military Standard Abbreviations for Use on Drawings, Specifications, Standards, and in Technical Documents. Abbreviations*

Explanation

NIIN National Item Identification Number
(consists of the last 9 digits of the NSN)
RPSTL Repair Parts and Special Tools List

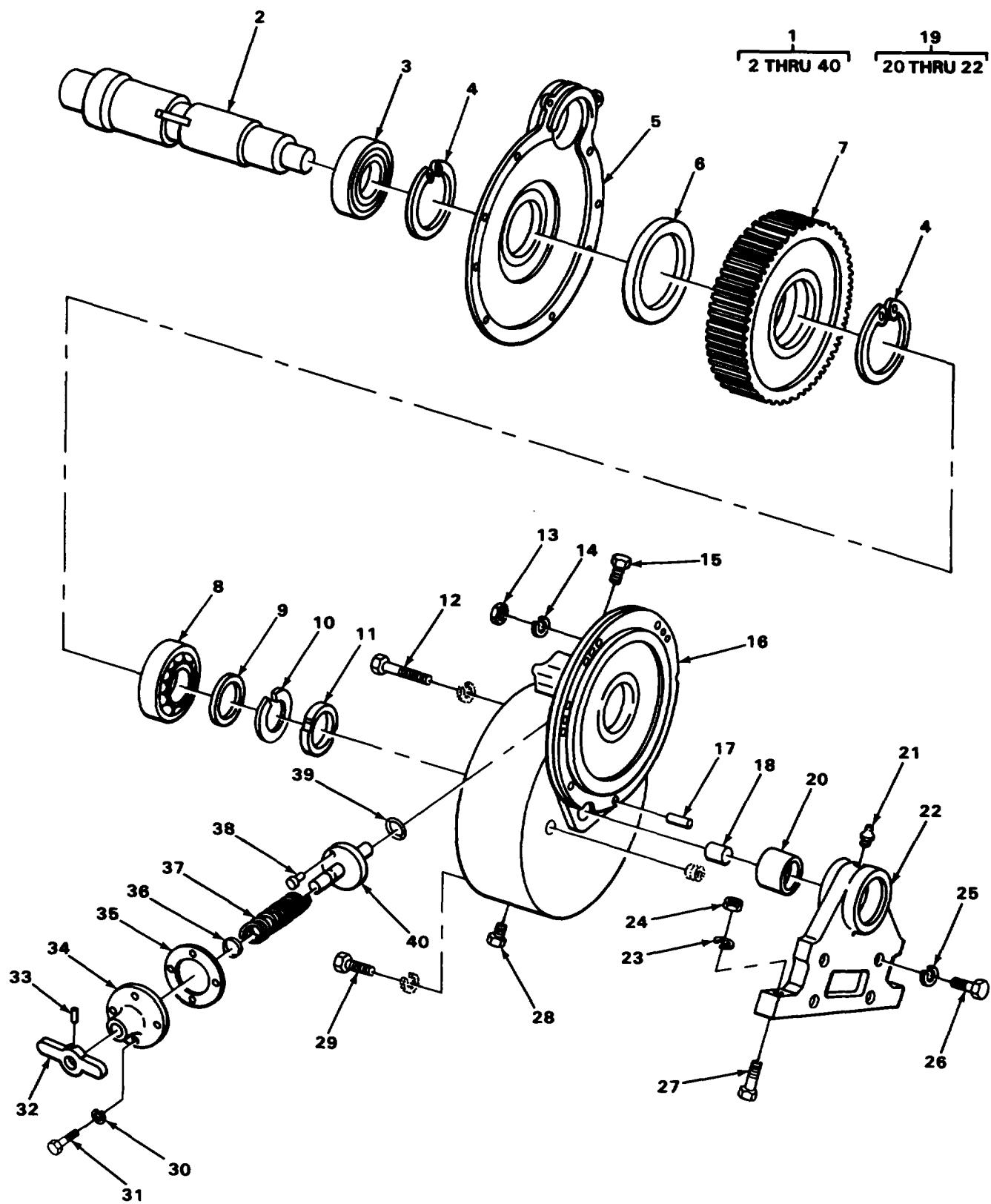


FIGURE 1. CRAWLER DRIVE ASSEMBLY.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 13 WHEELS AND TRACKS GROUP 1302 TRACKS SUPPORT ROLLERS AND BRACKETS	
				FIG. 1 CRAWLER DRIVE ASSEMBLY	
1	XDFFF	89413	3139237-117	MAIN FRAME ASSEMBLY COMPLETE.....	1
2	XDFZZ	89413	1139493-53	.SHAFT, AXLE, AUTOMOTI	2
3	PAFZZ	60038	HM212049	.CONE AND ROLLERS, TA	4
4	XDFZZ	89413	902109-475	.RING, RETAINING BEARING	4
5	XDFZZ	89413	1139185-44	.PLATE, RETAINER, BEA CRAWLER DRIVE	2
6	XDFZZ	92798	1324OLDSHIL5	.SEAL, OIL	2
7	XDFZZ	89413	1139253-63	.GEAR, DRIVE	2
8	XDFZZ	60038	960004-1	.CUP, BEARING.....	2
9	PAFZZ	60038	K91513	.WASHER1KEY	2
10	XDFZZ	89413	901359-13	.WASHER, LOCK BEARING	2
11	XOFZZ	89413	901348-13	.RING, EXTERNALLY, THR BEARING	2
12	XDFZZ	89413	900020-64	.SCREW, CAP, HEXAGON HEAD, HOUSING MTG ..	6
13	XDFZZ	89413	900085-5	.NUT, PLAIN, HEXAGON HOUSING MTG	18
14	XDFZZ	89413	900302-4	.WASHER, LOCK HOUSING MTG.....	39
15	XDFZZ	89413	1139417-26	.PLUG, BREATHER VENT	2
16	XDFZZ	89413	1139301-14	.HOUSING, GEAR LEFT HANNO	1
16	XDFZZ	89413	3139301-15	.HOUSING, MECHANICAL RIGHT HAND	1
17	XOFZZ	89413	904584-42	.PIN, STRAIGHT, HEADLE.....	2
18	XDFZZ	89413	1139389-65	.PIN, STRAIGHT, HEADLE.....	2
19	XDFFF	89413	3139081-103	.HOUSING, BEARING UNI ASSEMBLY.....	2
20	XDFZZ	89413	1139125-121	.BUSHING	1
21	PAFZZ	96906	MS15003-1	.FITTING, LUBRICATION	1
22	XDFZZ	89413	1139081-103	.BLOCK, PILLOW	1
23	XDFZZ	89413	900302-116	.WASHER, LOCK PILLOW BLOCK.....	4
24	XDFZZ	89413	900160-7	.NUT, PLAIN, HEXAGON PILLOW BLOCK	4
25	XDFZZ	89413	900302-64	.WASHER, LOCK PILLOW BLOCK.....	8
26	XOFZZ	83179	900020-35	.SCREW, CAP, HEXAGON HEAD, PILLOW	8
			BLOCK		
27	XDFZZ	89413	900020-106	.SCREW, CAP,HEXAGON HEAD, PILLOW	4
			BLOCK MTG		
28	XDFZZ	89413	901921-4	.PLUG, PIPE	2
29	XDFZZ	89413	900020-24	.SCREW, HEXAGON HEAO	26
30	XDFZZ	89413	900302-60	.WASHER, LOCK BRACKET MTG	8
31	PFOZZ	96906	MS18154-60	.SCREW, CAP, HEXAGON H HEAD, BRACKET..... MTG	8
32	XDFZZ	89413	1139281-55	.HANDLE, RIGHT HAND, RIGHT HAND	1
32	XDFZZ	89413	1139281-54	.HANDLE, LEFT HAND, LEFT HAND.....	1
33	XDFZZ	89413	904685-106	.PIN, SPRING.....	2
34	XDFZZ	89413	1139105-154	.PLATE, RETAINING, SHA.....	2
35	XDFZZ	89413	1139241-27	.GASKET	2
36	XDFZZ	83179	902277-13	.PACKING, PREFORMED	2
37	XDFZZ	89413	16402CM	.SPRING, HELICAL, COMP.....	2
38	XDFZZ	89413	1139125-127	.BEARING, BRONZE	2
39	XDFZZ	99413	902298-7	.O-RING	1
40	XDFZZ	89413	1139495-13	.PLATE, RETAINING, SHA.....	2

END OF FIGURE

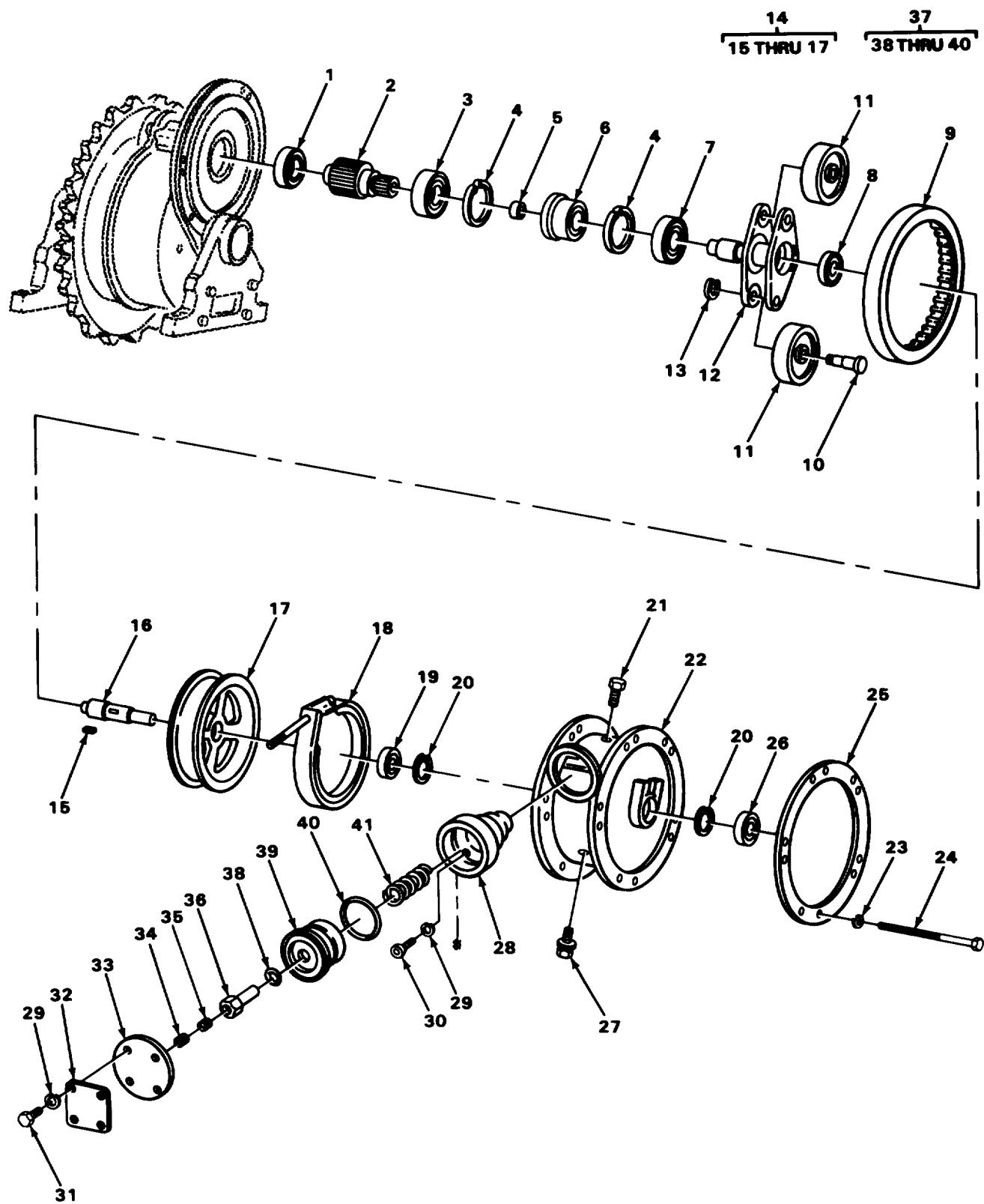


FIGURE 2. CRAWLER DRIVE EXPLODED VIEW.

SECTION II			(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY			
(1) ITEM NO	(2) SMR CODE	(3) CAGEC						
GROUP 1302 TRACK SUPPORT ROLLERS AND BRACKETS								
FIG. 2 CRAWLER DRIVE EXPLODED VIEW								
1	XDFZZ	08162	R1211TS	.BEARING, ROLLER.....	2			
2	XDFZZ	89413	1139253-64	.GEAR, PINION STAGE 2	2			
3	XDFZZ	43334	1213RTS	.BEARING, ROLLER STRAIGHT	2			
4	XDFZZ	89413	902109-475	.RING, RETAINING INTERNAL.....	2			
5	XDFZZ	89413	AA1212-2	.BEARING1BRONZE	2			
6	XDFZZ	89413	1139182-14	.COUPLING, CLUTCH.....	2			
7	XDFZZ	23803	213SZ	.BALL, BEARING	2			
8	XDFZZ	21335	P9105KE6569	.BEARING, BALL, ANNULA.....	2			
9	XDFZZ	89413	1139253-62	.GEAR, INTERNAL PLANETARY.....	2			
10	XDFZZ	89413	1139389-63	.PINISHOULDERIHEADED	4			
11	XDFZZ	89413	1139253-61	.GEAR, IDLER.....	4			
12	XDFZZ	89413	1139145-4	.CARRIER, PLANETARY.....	2			
13	XDFZZ	89413	902095-125	.RING SNAP EXT IDLER GEAR TO PIN.....	4			
14	XOFFF	89413	3139225-20	.BRAKE DRUM BRAKE	2			
15	XDFZZ	89413	900970-83	.KEY, DRUM	1			
16	XDFZZ	89413	1139493-52	.SHAFT, DRUM	1			
17	XDFZZ	89413	1139225-10	.DRUM, BRAKE	1			
18	XDFZZ	89413	3139061-3	.BRAKE BAND AND LINI.....	2			
19	XDFLZ	23803	940022-208	.BEARINGHOUSING	2			
20	XDFZZ	89413	902109-315	.RET RING	2			
21	XDFZZ	89413	903458-6	.PLUG, BREATHER VENT	2			
22	XDFZZ	89413	1139301-16	.HOUSING, MECHANICAL BRAKE, RIGHT	1			
				HAND				
				.HOUSING, MECHANICAL BRAKE, LEFT HAND	1			
22	XDFZZ	89413	1139301-17	.WASHER, LOCK HOUSING MTG	20			
23	XDFZZ	89413	900302-4	.SCREW, CAP, HEXAGON HEAD, HOUSING MTG ..	20			
24	XDFLZ	89413	900042-554	.GASKET	2			
25	XDFZZ	89413	154787	.BEARING, HOUSING	2			
26	XDFZZ	23803	940021-208	.PLUG, PIPE	2			
27	PFFZZ	83179	901204-4	.HEAD, CYLINDER	2			
28	XDFLZ	89413	1139285-21	.WASHER, LOCK COVER MTG	8			
29	XDFZZ	89413	900302-60	.SCREW, CAP, SOCKET HEAD, CYLINDER	8			
30	XDFZZ	89413	902224-115	.HEAD MTG				
				.SCREW, CAP, HEXAGON H HEAD, COVER MTG ..	4			
31	PFFZZ	80204	81821BH038C075N	.NAMEPLATE RIGHT HAND	1			
32	XDFZZ	89413	1139409-8	.NAMEPLATE LEFT HAND	1			
32	XDFZZ	89413	1139409-7	.COVER, MOTOR AIR	2			
33	XDFZZ	89413	1139185-45	.PLUG, PIPE	2			
34	XDFZZ	89413	901921-3	.SETSCREW	2			
35	XDFZZ	89413	900502-65	.NUT, SLEEVE	2			
36	XDFZZ	89413	1139369-16	.PISTON ASSEMBLY	2			
37	XDFFF	89413	3139398-61	.PACKING, PREFORMED PISTON1O-RING	1			
38	XDFZZ	89413	910660-214	.PISTON,	1			
39	XDFZZ	89413	1139398-61	.PACKING, PREFORMED PISTON	1			
40	XDFZZ	89413	902277-52	.SPRING, HELICAL, COMP	2			
41	XDFZZ	15840	9-3216-31					

END OF FIGURE

7 9 12
8 10 13 AND 14

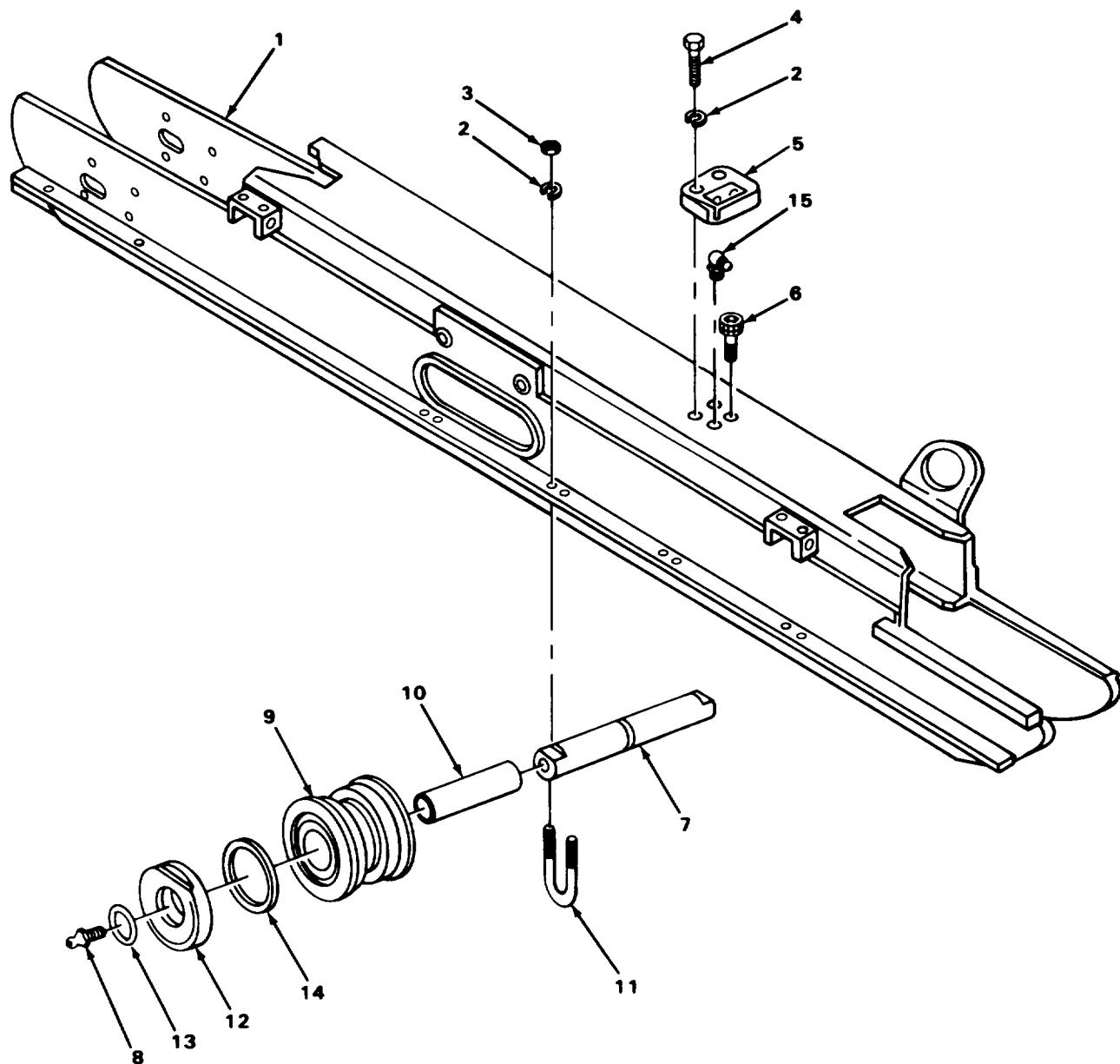


FIGURE 3. TRACK AND IDLER SIDE FRAME.

SECTION II			(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
(1) ITEM NO	(2) SMR CODE	(3) CAGEC			
GROUP 1303 TRACK IDLERS AND BRACKETS FIG. 3 TRACK AND IDLER SIDE FRAME					
1	XDFFF	89413	3139237-119	WELOMENT, SIDE FRAME	2
2	XDFZZ	89413	900302-4	WASHER, LOCK HEAD, ROLLER SHAFT MTG	22
3	XDFZZ	89413	900085-5	NUT, PLAIN1HEXAGON ROLLER SHAFT MTG	20
4	PFFZZ	96906	MS90728-113	SCREW1CAPGHEXAGON H HEAD	20
5	XDFZZ	89413	1139141-126	CAPROLLER	10
6	XDFZZ	89413	1139473-118	SCREW, RELIEF	10
7	XDFFF	89413	3139493-61	SHAFT, STRAIGHT	5
8	PAFZZ	96906	MS15002-1	.FITTING, LUBRICATION	5
9	XDFFF	89413	3139449-28	ROLLER1TRACK.....	5
10	PAFZZ	89413	1139073-3	.BEARING, SLEEVE ROLLER.....	5
11	XDFZZ	89413	1139089-40	BOLT, U ROLLER SHAFT MTG	10
12	XDFFF	89413	3139601-38	BEARINGIWASHER, THRU	10
13	XDFZZ	89413	902277-27	.O-RING	10
14	XDFZZ	89413	901241-71	.SEAL, OIL	10
15	PAFZZ	96906	MS15003-5	FITTING, LUBRICATION ROLLER SHAFT	10

END OF FIGURE

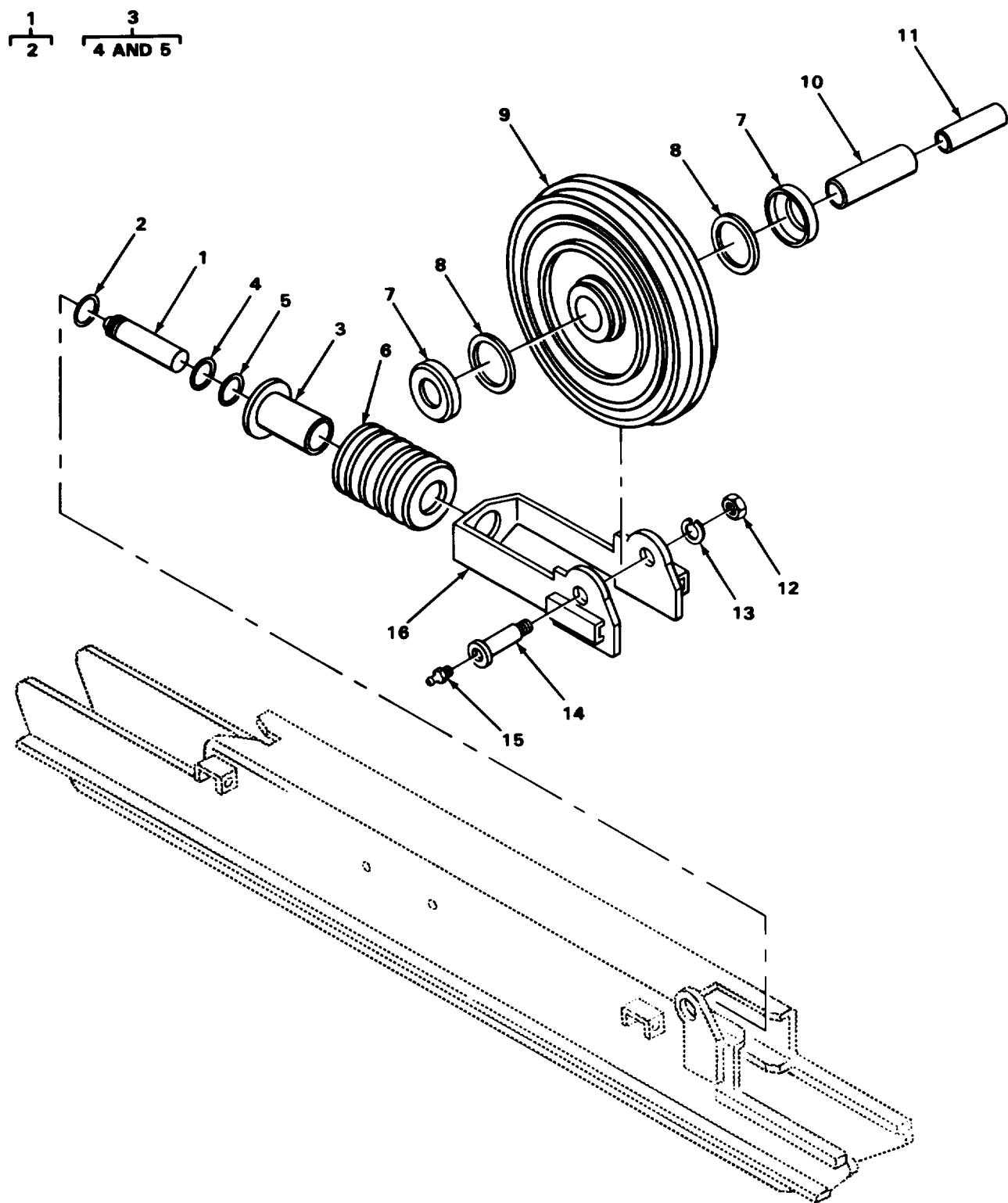


FIGURE 4. TRACK YOKE AND IDLER.

SECTION II			(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY			
(1) ITEM NO	(2) SMR CODE	(3) CAGEC						
GROUP 1303 TRACK IDLERS AND BRACKETS								
FIG. 4 TRACK YOKE AND IDLER								
1	XDFFF	89413	3139493-60	SHAFT, STRAIGHT	2			
2	XDFZZ	89413	3139373-33	.O-RING, SHAFT	2			
3	XDFFF	89413	3139141-151	CAP, SPRING	2			
4	XDFZZ	89413	1139373-23	.O-RING, CAP	2			
5	XDFZZ	89413	903136-36	RING, BACKUP LEATHER	2			
6	XDFZZ	89413	1139517-36	SPRING, HELICAL, COMP	2			
7	XDFZZ	89413	3139601-37	BEARING, WASHER, THRU IDLER	4			
8	XDFZZ	89413	901241-71	SEAL, OIL IDLER	4			
9	XDFZZ	89413	3139753-7	IDLER, TRACK	2			
10	XDFZZ	89413	1139513-118	SPACER, SLEEVE IDLER	2			
11	XDFZZ	89413	1139073-2	BEARING, BRONZE IDLER	2			
12	XDFZZ	89413	900160-11	NUT, PLAIN, HEXAGON YOKE MTG	2			
13	XDFZZ	89413	900302-10	WASHER, LOCK YOKE MTG	2			
14	XDFZZ	89413	3139493-267	SHAFT, SHOULDERED YOKE MTG	2			
15	PAFZZ	96906	MS15002-1	FITTING, LUBRICATION YOKE PIVOT PIN	2			
16	XDFZZ	89413	1139617-32	YOKE, UNIVERSAL JOIN	2			

END OF FIGURE

3
4 AND 5

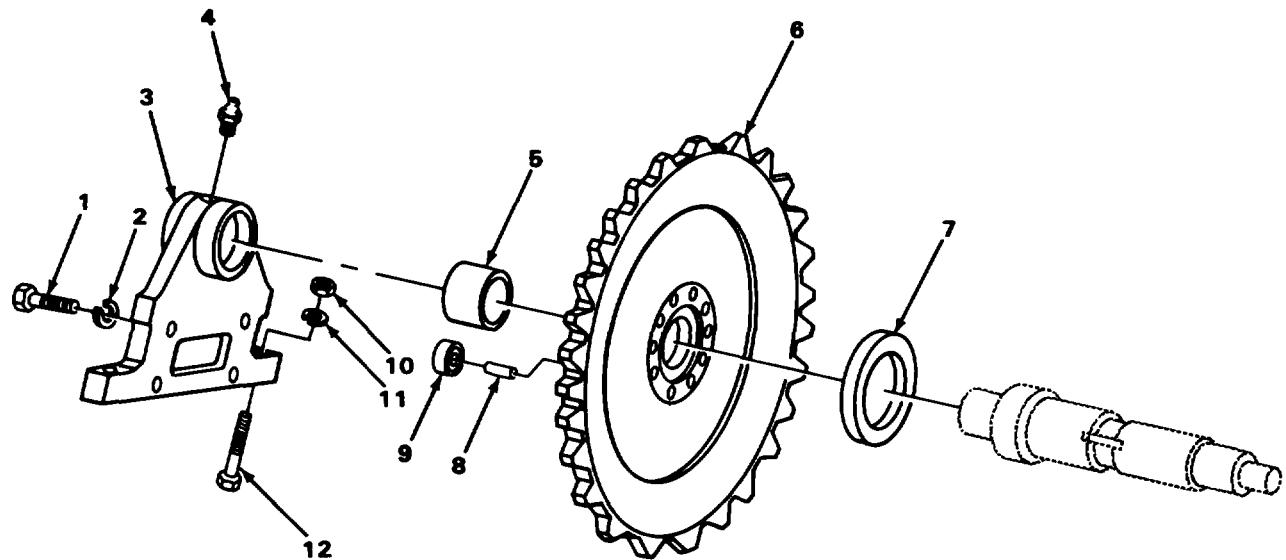


FIGURE 5. TRACK SPROCKET.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 1304 TRACK DRIVE SPROCKETS					
FIG. 5 TRACK SPROCKET					
1	XDFZZ	83179	900020-35	SCREW, CAPIHEXAGON HEADIBLOCK MTG	8
2	XDFZZ	89413	900302-64	WASHER, LOCK PILLOW BLOCK MTG	8
3	XDFFF	89413	3139081-103	HOUSINGIBEARING UNI.....	2
4	PAFZZ	96906	MS15003-1	.FITTING, LUBRICATION PILLOW BLOCK	1
5	XDFZZ	89413	1139125-121	.BUSHING	1
6	XOFZZ	89413	1139521-40	SPROCKET.....	2
7	XDFZZ	92798	13241LOSH115	SEAL, OIL COVER.....	2
8	XDFZZ	89413	1139549-60	STUD, PLAIN SPROCKET	20
9	XDFZZ	89413	1139369-23	NUT, SELF-LOCKING, RO	20
10	XOFZZ	89413	900160-7	NUT, PLAIN, HEXAGON PILLOW BLOCK MTG	4
11	XDFZZ	89413	900302-116	WASHER, LOCK PILLOW BLOCK MTG	4
12	XDFZZ	89413	900020-106	SCREW, CAP, HEXAGON PILLOW BLOCK MTG	4

END OF FIGURE

1
2 THRU 4

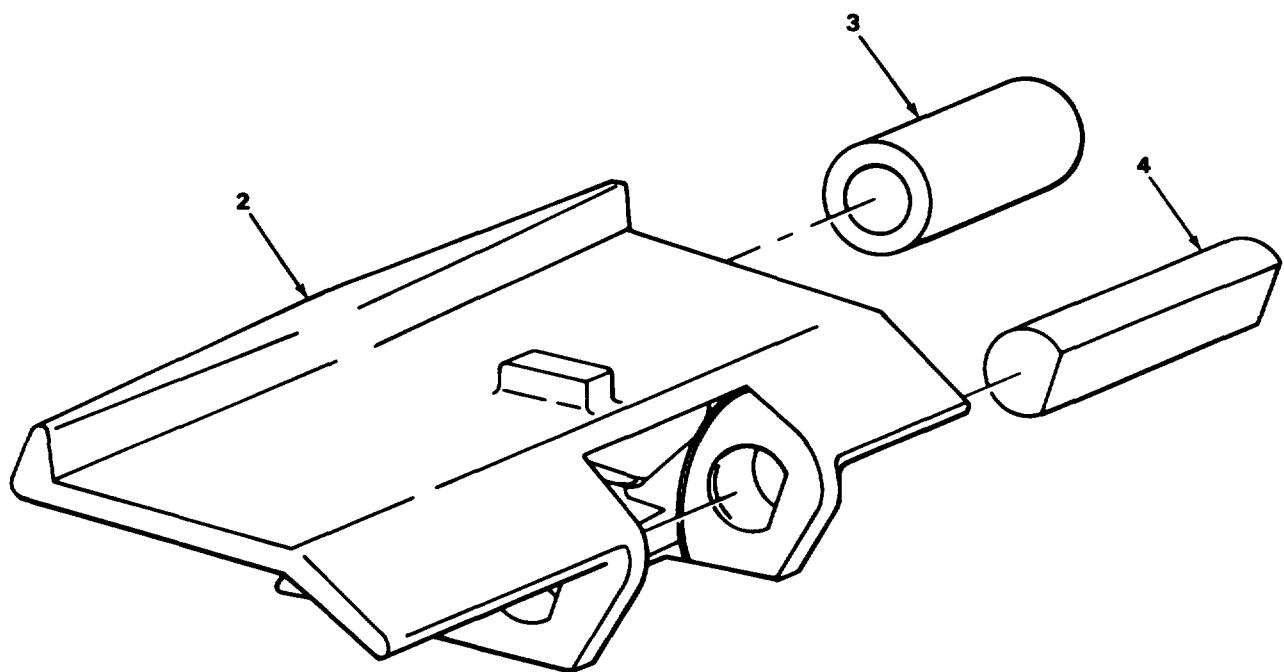


FIGURE 6. CRAWLER CHAIN ASSEMBLY.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 1305 TRACK ASSEMBLY					
FIG 6 CRAWLER CHAIN ASSEMBLY					
1	XDFFF	89413	3140207-38	CRAWLER CHAIN ASSEM CRAWLER	38
2	XDFZZ	89413	3139345-58	.LINK, TREAD	1
3	XDFZZ	89413	1139125-186	.BUSHING CRAWLER LINK.....	1
4	XDFZZ	89413	1139389-70	.PIN CRAWLER CHAIN.....	1

END OF FIGURE

1 2
2 THRU 10 3 THRU 7

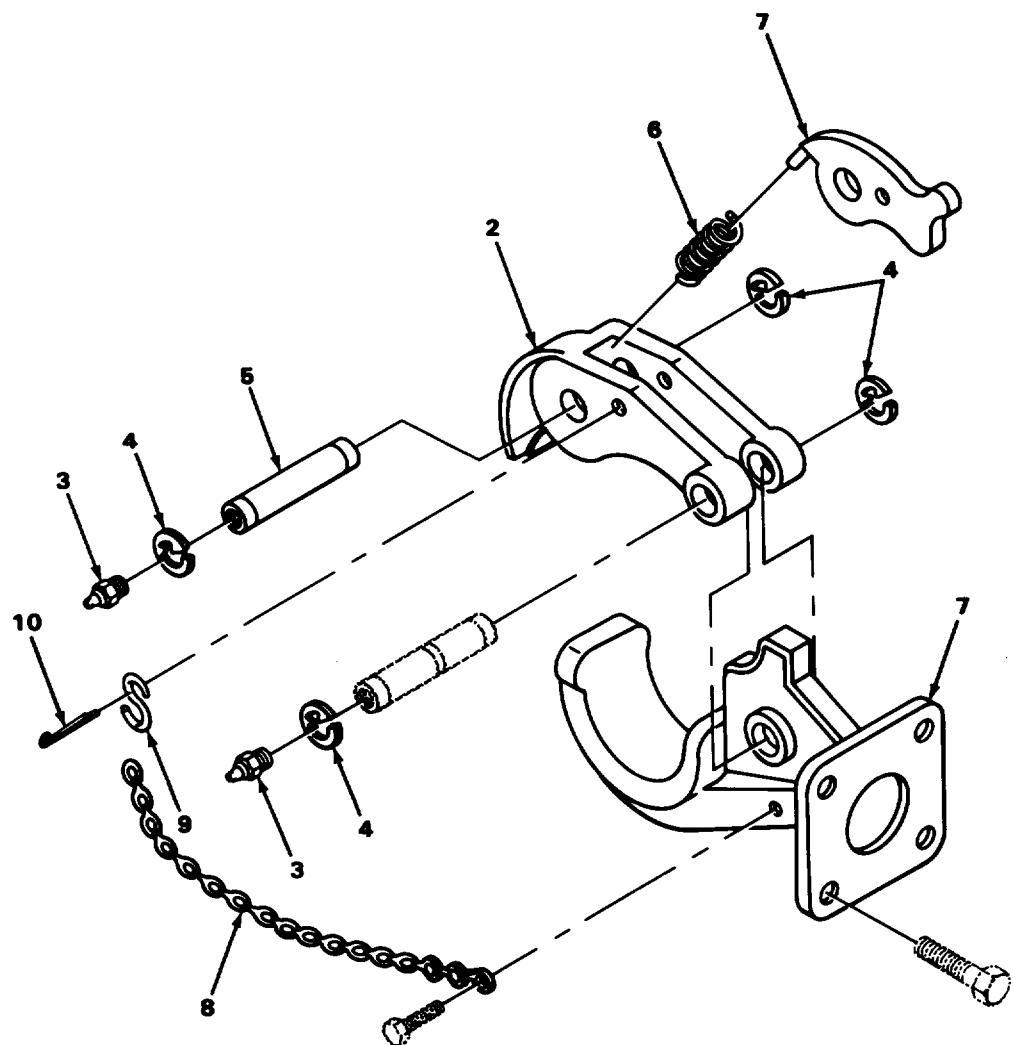


FIGURE 7. TOW PINTLE.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 15 TOWING ATTACHMENTS					
GROUP 1503 PINTLES AND TOWING ATTACHMENTS					
FIG. 7 TOW PINTLE					
1	PA0ZZ	96906	MS51335-2	PINTLE ASSEMBLY, TOW	1
2	XA000	19207	8765721	.LOCK, PINTLE	1
3	PA0ZZ	96906	MS15001-1	..FITTINGILUBRICATION	2
4	PA0ZZ	96906	MS16624-1050	..RING, RETAINING	4
5	PA0ZZ	19207	7524316	..PIN, GROOVEDOHEAOLES	1
6	PA0ZZ	19207	7044253	..SPRING1HELICALICOMP.	1
7	PA0ZZ	19207	8380196	..LATCH, PINTLE HOOK	1
8	M00ZZ	19207	1293321-1	.CHAIN1PINTLE MAKE FROM CHAIN P/N	1
				42C15120-205.....	
9	PA0ZZ	96906	MS87006-53	.HOOK1CHAINS	1
10	PA0ZZ	80020	36344N24	.PIN, COTTER	1

END OF FIGURE

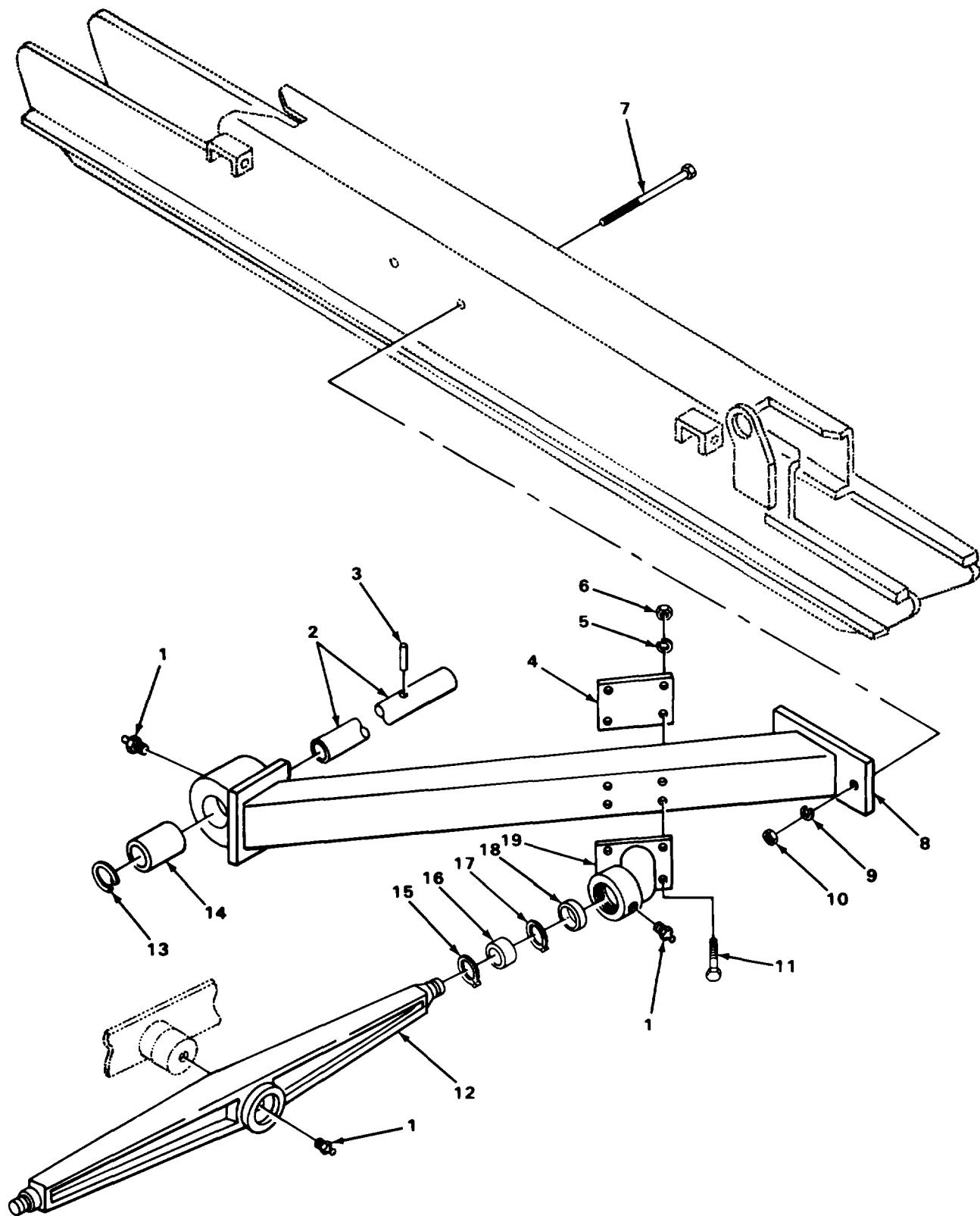


FIGURE 8. SUSPENSION EQUALIZERS.

SECTION II			(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY			
(1) ITEM NO	(2) SMR CODE	(3) CAGEC						
GROUP 16 SPRINGS AND SHOCK ABSORBERS								
GROUP 1605 TORQUE, RADIUS AND STABILIZER RODS								
FIG. 8 SUSPENSION EQUALIZERS								
1	PA0ZZ	96906	MS15003-1	FITTING, LUBRICATION BAR, ARM, ANGLE	3			
2	XDFZZ	89413	1139393-50	PIN, PIVOT.....	2			
3	XDFZZ	89413	904685-160	PIN, SPRING PIVOT ARM.....	2			
4	XDFZZ	89413	1139400-176	PLATE	2			
5	XDFZZ	89413	900302-5	WASHER, LOCK PLATE MTG	8			
6	XDFZZ	89413	900085-7	NUT, PLAIN, HEXAGON PLATE MTG	8			
7	XDFZZ	89413	900057-571	BOLT, MACHINE ARM MTG	4			
8	XDFZZ	89413	3139053-29	ARM,EQUALIZER	2			
9	XDFZZ	89413	900302-120	WASHER, LOCK ARM MTG	4			
10	XDFZZ	89413	900160-9	NUT, PLAIN, HEXAGONARM MTG	4			
11	XDFZZ	89413	900042-175	SCREW, CAP, HEXAGON PLATE AND ANGLE	8			
			MTG		2			
12	XOFZZ	89413	3139065-26	BAR, EQUALIZER.....	2			
13	XDFZZ	89413	905477-287	RING, SNAP.....	2			
14	XDFZZ	89413	1139073-5	BEARING, BRONZE	2			
15	XDFZZ	89413	904889-41	RING, RETAINING ANGLE	2			
16	XDFZZ	51588	822-96	BEARING, PLAIN, SELF- ANGLE	2			
17	XDFZZ	89413	902109-237	SNAP RING ANGLE	2			
18	XDFZZ	89413	1139712	SEAL, OIL ANGLE	2			
19	XDFZZ	89413	1139049-5	ANGLE, SOCKET	2			

END OF FIGURE

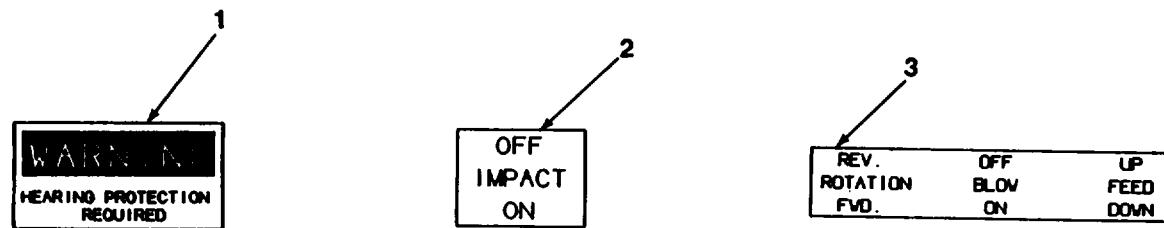


FIGURE 9. DATA PLATES.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 22 BODY, CHASSIS, AND HULL ACCESSORY ITEMS					
GROUP 2210 DATA PLATES AND INSTRUCTION HOLDERS					
FIG 9 DATA PLATES					
1	PA0ZZ	ODP42	22010	PLATE, INSTRUCTION	1
2	PA0ZZ	ODP42	22020	PLATE, INSTRUCTION	1
3	PA0ZZ	ODP42	22030	PLATE, INSTRUCTION	1

END OF FIGURE

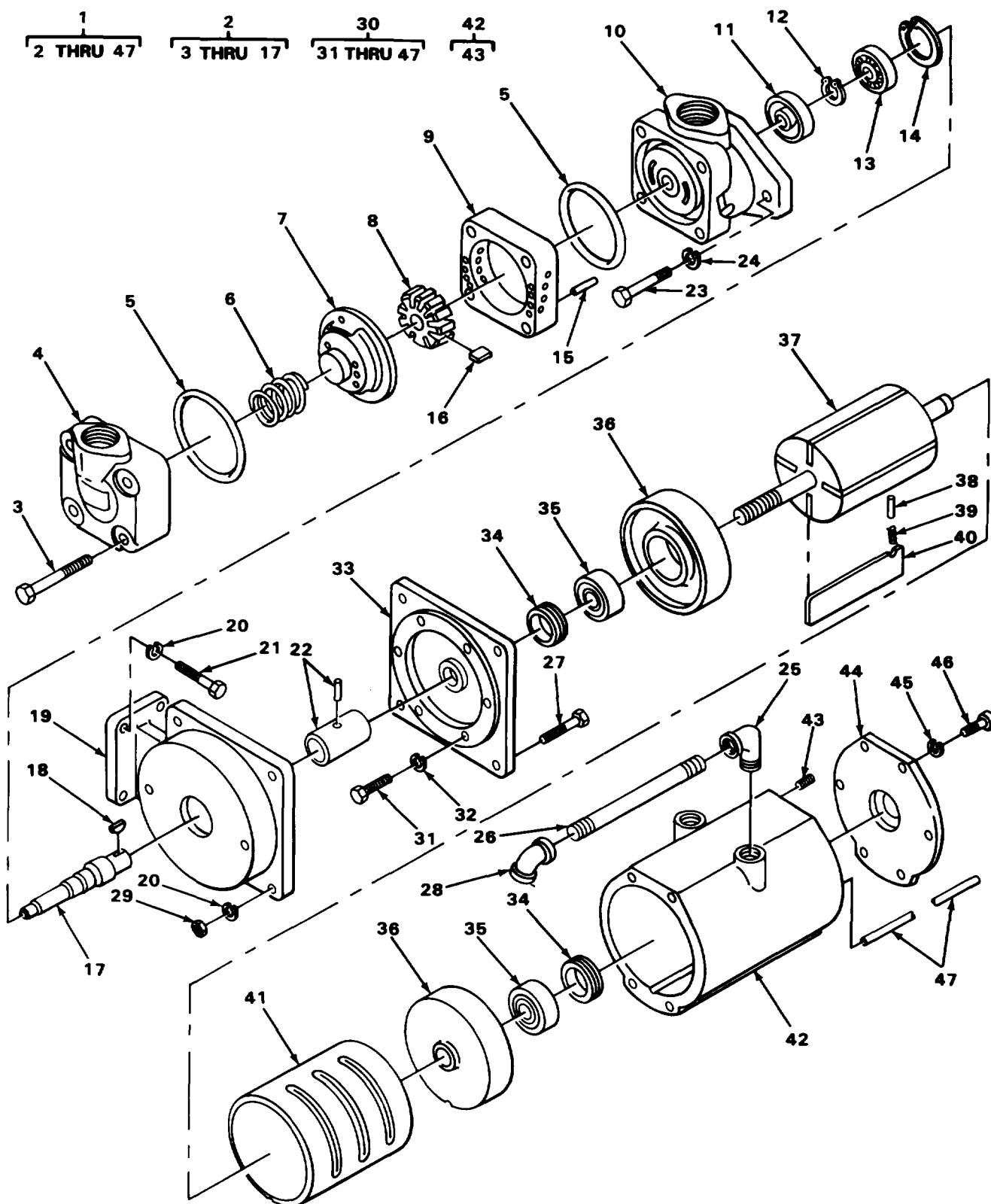


FIGURE 10. HYDRAULIC PUMP AND MOTOR

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 24 HYDRAULIC ANO FLUID SYSTEMS					
GROUP 2401 PUMP AND MOTOR					
FIG. 10 HYDRAULIC PUMP AND MOTOR					
1	XDOFF	89413	501075-16	PUMP AND MOTOR ASSEMBLY,HYDRAULIC.....	1
2	XDFFF	89413	501083-29	.PUMP,HYDRAULIC	1
3	XDFZZ	89413	369928	..SCREW,CAP,HEXAGON HEAD,COVER MTG	4
4	XDFZZ	89413	1139185-112	..COVER.....	1
5	KFFLZ	89413	1139477-24	..O-RING PART OF KIT P/N 3139774-S	2
6	XDFZZ	89413	369930	..SPRING.....	1
7	XDFZZ	89413	1139400-182	..PLATE,PRESSURE	1
8	XDFZZ	89413	1496188-4	..ROTOR	1
9	XDFZZ	89413	1139441-8	..RING	1
10	XDFZZ	22681	VIO1P2P6A20	.BODY,PUMP	1
11	KFFZ	89413	1139477-26	..SEAL PART OF KIT P/N 3139774-8.....	1
12	XDFZZ	89413	370201	..RING, SNAP.....	1
13	XDFZZ	89413	251073	.BEARING,.....,	1
14	XDFZZ	89413	370202	..RING,SNAP.....	1
15	XDFZZ	89413	1139393-87	.PIN,	1
16	XOFZZ	89413	369936	.VANE KIT CONSISTS OF 12 VANES	1
17	XDFZZ	89413	370199	..SHAFT.....	1
18	XDFZZ	89413	901848-606	.KEY,DRIVE SHAFT	1
19	XDFZZ	89413	3139105-314	.BRACKET MOUNTED VALVE	1
20	XDOZZ	89413	900302-60	.WASHER,LOCK PUMP MTG BRACKET	4
21	XDOZZ	89413	90002033	.SCREW,CAP,HEXAGON HEAD,PUMP MTG	4
				BRACKET	
22	XDFZZ	89413	3139182-22	.COUPLING PUMP TO MOTOR.....	1
23	XDFZZ	89413	900020-23	SCREW CAP, HEXAGON HEAD,PUMP TO	2
24	XDFZZ	89413	900302-52	BRACKET,,	
25	PAFZZ	30379	141621	, WASHER,LOCK PUMP TO BRACKET	2
26	PAFZZ	96906	MS51953-1098	ELBOW, PIPE STREET,HOUSING	1
27	XDFZZ	89413	900020-33	NIPPLE,PIPE ELBOW TO ELBOW	1
				SCREW,CAP,HEXAGON HEAD,MOTOR TO	
				BRACKET	
28	PAFZZ	72582	119095	ELBOW,PIPE MOTOR	1
29	PFFZZ	96906	MS51967-8	NUT, PLAIN, HEXAGON MOTOR TO BRACKET	4
30	XDFFF	89413	501023-12	MOTOR ASSEMBLY,AIR.....	1
31	XDFZZ	89413	900020-12	SCREW,CAP,HEXAGON HEADIFLANGE MTG	6
32	XDFZZ	89413	900302-129	WASHERPLOCK FLANGE MTG	6
33	XDFZZ	89413	1139235-14	FLANGE,FORWARD	1
34	XOFZZ	89413	901244-255	SEAL,OIL	2
35	XDFZZ	89413	940009-304	BEARING,BALL	2
36	XDFZZ	89413	1139400-157	PLATE,ENDO.....	2
37	XDFZZ	89413	1139453-10	ROTOR	1
38	KFFZZ	89413	1139389-100	PIN,SHUTTLE PART OF KIT P/N.....	4
				3139577-19	
39	KFFZZ	89413	1139517-53	SPRING PART OF KIT P/N 3139577-19	4
40	KFFZZ	89413	1139517-15	VANE PART OF KIT P/N 3139577-19	4
41	XDFZZ	89413	1139035-7	STATOR.....	1
42	XDFFF	89413	3139305-5	HOUSING,MOTOR	1

SECTION II				(5)	(6)
ITEM NO	(1) SMR CODE	(2) CAGEC	(3) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
43	XDFZZ	89413	900509-32	...SETSCREW HOUSING	4
44	XDFZZ	89413	1139235-15	..FLANGE, REAR.....	1
45	XDFZZ	89413	900306-2	..WASHER, LOCK FLANGE MTG	6
46	XDFZZ	89413	902224-755	..SCREW, CAP, SOCKET HEAD1FLANGE MTG	6
47	XDFZZ	89413	1139389-104	..PIN,LOCATOR	1

END OF FIGURE

10-2

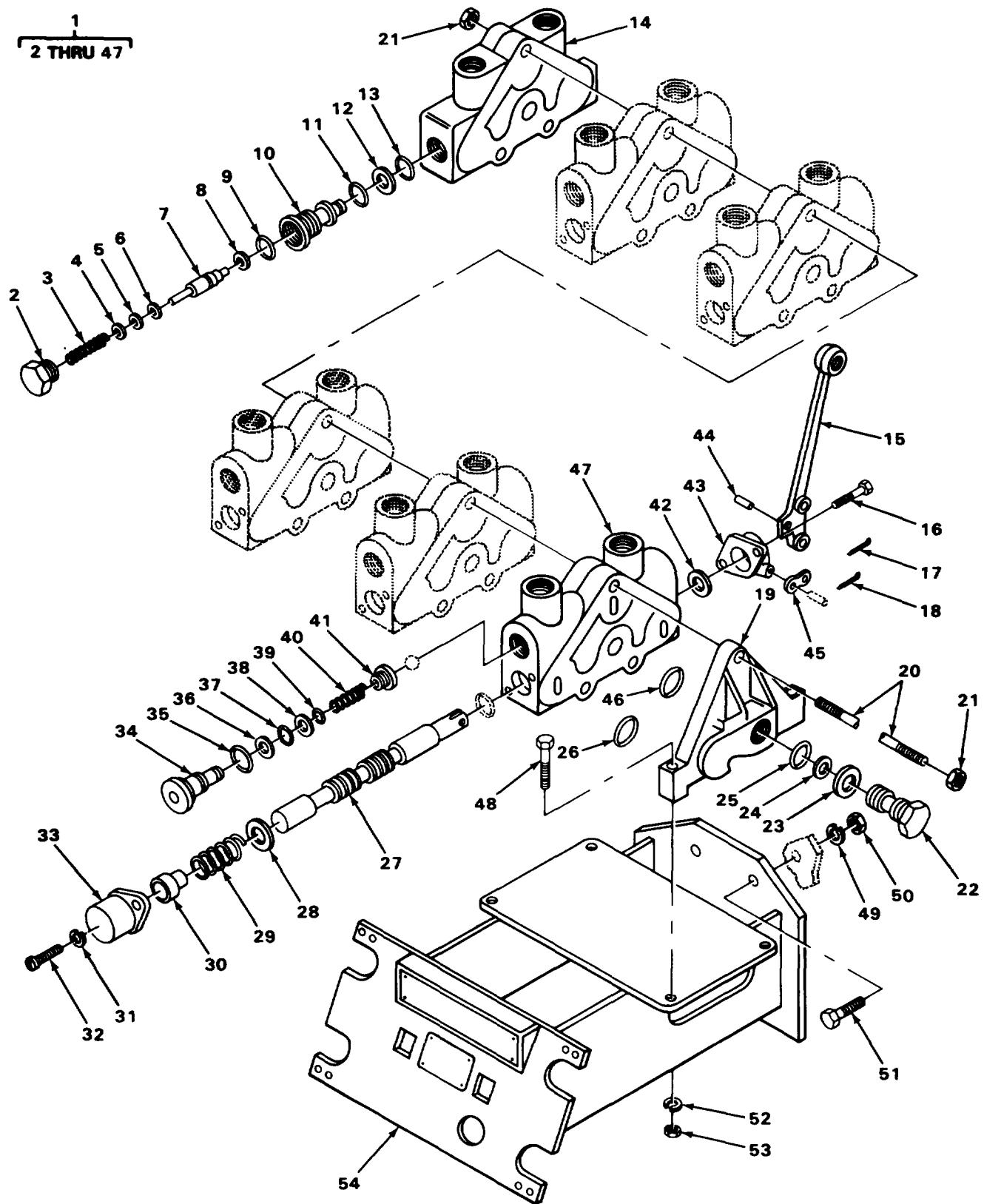


FIGURE 11. HYDRAULIC CONTROL VALVE.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 2402 CONTROL VALVES					
FIG. 11 HYDRAULIC CONTROL VALVE					
1	XDFFF	89413	501029-77	VALVE ASSEMBLYHYDRAULIC RELIEF.....	1
2	XDFZZ	02249	1880	CAP,RELIEF	1
3	XDFZZ	02249	1865	SPRING.....	1
4	XDFZZ	02249	458	SHIM RELIEF.....	1
5	PFFZZ	02249	459	SHIM RELIEF.....	1
6	PAFZZ	02249	462	SHIM	1
7	XDFZZ	02249	1881	DISKVALVE	1
8	XDFZZ	02249	1883	RING1WIPER	1
9	XDFZZ	02249	2907	O-RING,SEAL	1
10	XDFZZ	02249	1890	BOOY AND PLUNGER,VA RELIEF.....	1
11	PAFZZ	02249	1615	PACKING,PREFORMED	1
12	PFFZZ	02249	1851	SEAL,8ACK UP.....	1
13	XDFZZ	02249	1863	PACKING,PREFORMED	1
14	PFFZZ	79150	1862	GASKET	1
15	XDFZZ	02249	1802	HANDLE, VALVE	5
16	PAFZZ	02249	1808	SCREW,ASSEMBLED WAS HANDLE MTG	10
17	XDFZZ	02249	086	PIN,COTTER HANDLE MTG	10
18	PAFZZ	02249	929	PIN1COTTER	5
19	PFFZZ	66289	Q0631	GASKET	1
20	XDFZZ	02249	1845	STUD VALVE RETAINING	3
21	PFFZZ	02249	1856	NUT,STUD ASSEMBLY	6
22	XDFZZ	02249	1830	PLUG,CLOSED CENTER	1
23	PFFZZ	79470	1421	COCK,DRAIN.....	1
24	XDFZZ	95019	1858	ODEP REPORTED STK-NO	1
25	PAFZZ	02249	2709	PACKING, PREFORMEO	1
26	PAFZZ	02249	1621	PACKINGPREFORMED	2
27	PFFZZ	02249	1804	SPOOL,CABLE	5
28	PAFZZ	02249	1129	PACKING,PREFORMED SPOOL.....	5
29	XDFZZ	02249	1807	SPRING HELICAL COMP CENTERING	5
30	PFFZZ	02249	1810	COLLAR,SHAFT	5
31	PFFZZ	02249	1813	WASHER,LOCK BONNET MTG	10
32	XDFZZ	02249	1812	SCREW MACHINE	10
33	PAFZZ	02249	1811	BONNET	5
34	XDFZZ	02249	1817	.BODYVALVE.....	5
35	PAFZZ	02249	2707	PACKING,PREFORMEO	5
36	XDFZZ	02249	1821	SEAL,PLAIN.....	5
37	PAFZZ	02249	1819	PACKING, PREFORMEO	5
38	PAFZZ	02249	1820	SEAL,PLAIN INNER.....	5
39	PAFZZ	02249	1818	SEAL,PLAIN.....	5
40	XDFZZ	02249	2796	SPRING,CHECK	5
41	PAFZZ	02249	2781	DISK,VALVE, POPPET	5
42	XDFZZ	02249	1800	PACKING, WIPER	5
43	PAFZZ	02249	1801	FLANGE,PIPE.....	5
44	XDFZZ	02249	1857	PIN,HANDLE, LINK TO HANDLE	10
45	XDFZZ	05554	928-001	LINK,ROLLER CHAIN HANDLE	10
46	PAFZZ	02249	1859	PACKING,PREFORMED	2
47	PAFZZ	02249	6721	SECTION CENTER	5
48	XDFZZ	89413	900020-24	SCREW,HEXAGON, VALVE TO 8RACKET	4

SECTION II				(5)	(6)
ITEM NO	(1) SMR CODE	(2) CAGEC	(3) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
49	XDFZZ	89413	900302-64	WASHER, LOCK BRACKET MTG	4
50	XDFZZ	89413	900160-6	NUT,PLAIN,HEXAGON, BRACKET	4
51	XDFZZ	89413	900020-45	SCREWVCAP,HEXAGON HEAD	4
52	XDFZZ	89413	900302-4	WASHER,LOCK VALVE TO BRACKET	4
53	XDFZZ	89413	900160-5	NUT,PLAINHEXAGON	4
54	XDFZZ	89413	3139105-497	BRACKETICONTROL.....	1

END OF FIGURE

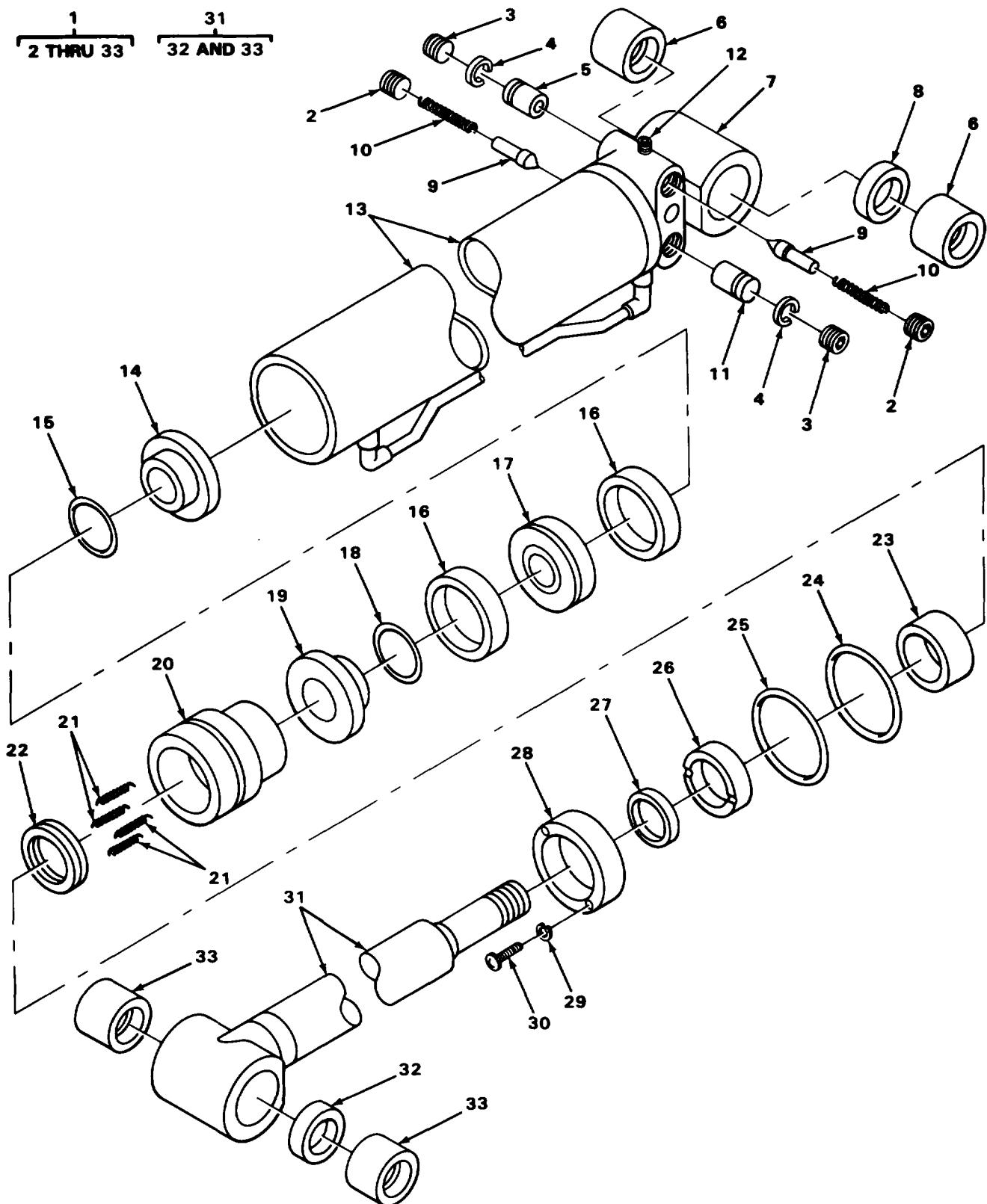


FIGURE 12. HYDRAULIC LIFT CYLINDER.

SECTION II			(4)	(5)	(6)
ITEM NO	(1) SMR CODE	(2) CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 2405 MAST COLUMN					
FIG. 12 HYDRAULIC LIFT CYLINDER					
1	XDFFF	89413	501002-329	.LIFT,CYLINDER ASSEMBLY	1
2	XDFZZ	89413	901930-4	.PLUG,PIPE	2
3	XDFZZ	89413	901930-6	.PLUGCPIPE.....	2
4	XDFZZ	89413	1139437-39	.RING1PISTDN	2
5	XDFZZ	89413	1139398-75	.PILOT CHECK, PISTON	1
6	XDFZZ	89413	903347-23	.BUSHING,HEAD CAP	2
7	XDFZZ	89413	3139201-30	.HEAD CAP	1
8	XDFZZ	89413	1139513-28	.SPACER,HEAD CAP	1
9	XDFZZ	89413	1139421-31	.POPPET	2
10	XOFZZ	89413	1139517-29	.SPRING	2
11	XDFZZ	89413	1139398-80	.PILOT CHECK PISTON	1
12	XDFLZ	89413	901930-2	.PLUG,PIPE	1
13	XDFZZ	89413	1139205-132	.BARREL ASSEMBLY	1
14	XDFZZ	89413	1139400-287	.PLATE1BACKUPP	1
15	XDFZZ	89413	902301-8	.O-RING	1
16	XDFZZ	89413	1139373-34	.U-CUP	2
17	XDFZZ	92852	10519	.PISTON	1
18	XDFZZ	89413	902301-4	.O-RING.IN	1
19	XDFZZ	89413	1139400-126	.PLATE1BACKING	1
20	XDFZZ	89413	1139285-18	.HEAD 0CYLINDER	1
21	XOFZZ	89413	1139517-28	.SPRINGI6	6
22	PAFZZ	89413	1139045-34	.RETAINER,PACKING	1
23	PAFZZ	89413	1139373-29	.PACKING,PREFORMEDORM	1
24	XDFZZ	89413	902301-27	.O-RING	1
25	XDFZZ	89413	903137-27	.RING, BACKUP	1
26	XDFZZ	89413	1139369-38	.NUT, GLANDO	1
27	PAFZZ	89413	1139609-4	.RINGVWIPER	1
28	XDFZZ	89413	1139437-53	.RING1RETAINING	1
29	XDFZZ	89413	1705392-10	.WASHER,LOCK RETAINER MTG	2
30	XDFZZ	89413	900388-160	.SCREW,CAP,BUTTON HEAD,RETAINER MTG	2
31	XDFFF	89413	3139398-222	.PISTON ROD ASSEMBLY	1
32	XDFZZ	89413	1139513-28	..SPACER PISTON ROD	1
33	XDFZZ	89413	903347-23	..BUSHING, PISTON ROD	2

END OF FIGURE

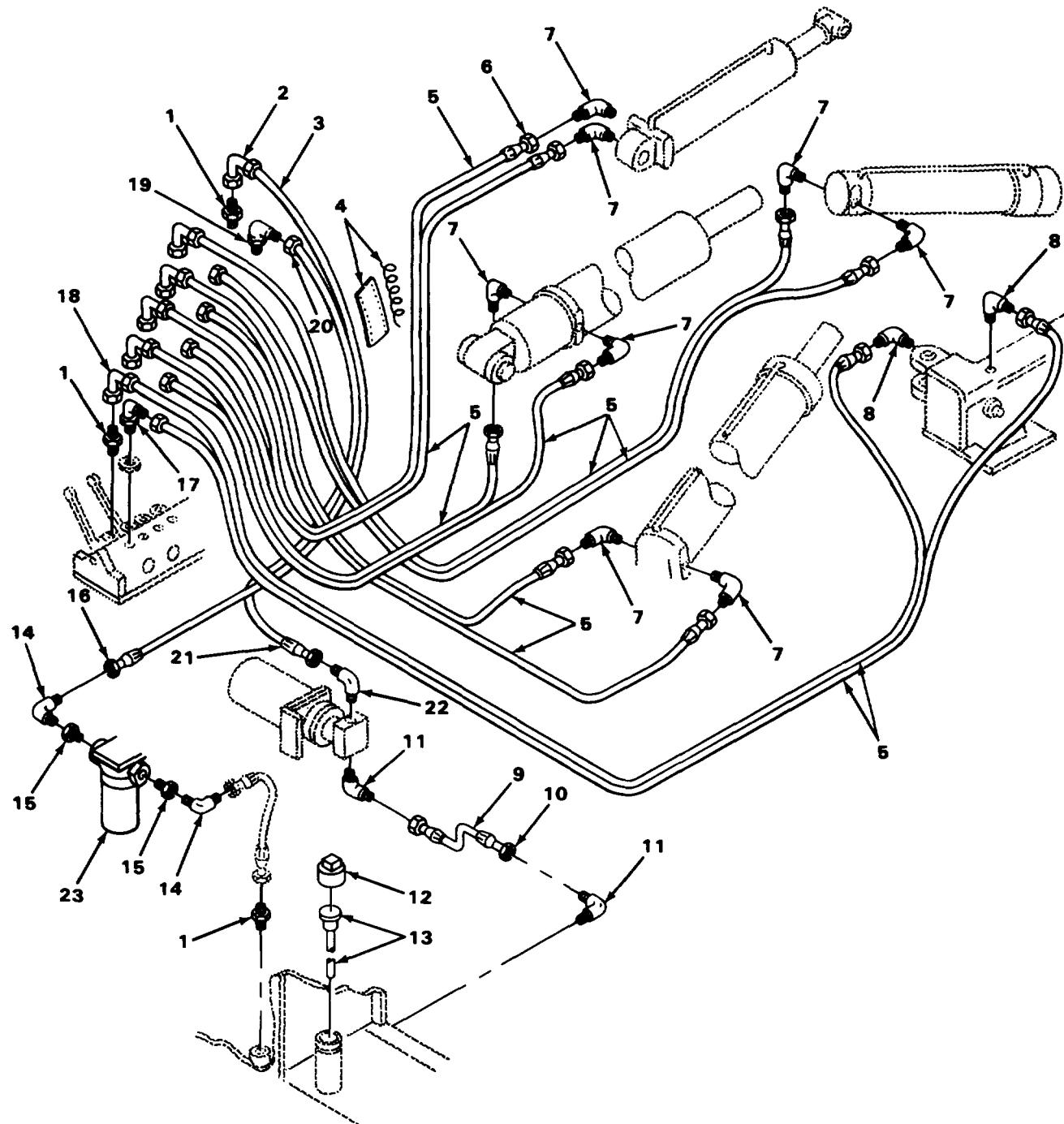


FIGURE 13. HYDRAULIC LINES AND FITTINGS.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 2406 STRAINERS, FILTERS,LINES AND FITTINGS					
FIG. 13 HYDRAULIC LINES AND FITTINGS					
1	PFOZZ	46717	AC-1-310	ADAPTER, STRAIGHT,TU	7
2	XDOZZ	89413	907919-10	SWIVEL,FEMALE	1
3	MOOZZ	19207	902085-10-01	HOSE,WIRE BRAID MAKE FROM HOSE P/N..... 902085-10	1
4	XDOZZ	89413	1139097-5	BOOT	5
5	XOOZZ	19207	902085-8-001	HOSE,WIRE BRAID MAKE FROM HOSE P/N..... 902085-8	10
6	XDOZZ	89413	904015-8	SWIVEL, FEMALE	12
7	PAOZZ	96906	MS51504AS	ELBOWPIPE TO	8
8	XDOZZ	89413	907304-86	ELBOWPIPE TO TUBE	2
9	MOOZZ	19207	902085-16-01	HOSE ASSEMBLY MAKE FROM HOSE P/N..... 902085-16	2
10	XDOZZ	89413	904015-16	SWIVEL,FEMALE TANK TO PUMP MP	2
11	PAOZZ	96906	MS20822-16	ELBOW,PIPE TO TUBE TANK TO PUMP	2
12	XDOZZ	89413	A131428	CAP,FILLER TUBE HYDRAULIC TANK.....	1
13	XDOZZ	89413	1139541-20	GAGE ROD-BREATHER,L HYDRAULIC TANK..... FILLER TUBE.....	1
14	XDOZZ	89413	907254-102	ADAPTER,ELBOW	2
15	PAOZZ	30780	10F50XS	ADAPTER,STRAIGHT,TU	2
16	XDOZZ	89413	904051-10	ADAPTER,STRAIGHT,TU TANK TO VALVE	3
17	PAOZZ	27315	44Q1605	ELBOW,TUBE TO HOSE	5
18	PAOZZ	01276	190295-8S	ELBOW,TUBE TO HOSE	5
19	XDOZZ	89413	910751-1010	ELBOW9ADAPTER	1
20	MOOZZ	19207	903995-10-01	HOSE,WIRE BRAID MAKE FROM HOSE P/N..... 903995-10	1
21	XOOZZ	89413	907254-108	ADAPTER	1
22	PAOZZ	01276	41-4721-10-8	ADAPTER,STRAIGHT,TU	2
23	PAOZZ	73370	P1656	FILTER ELEMENT,FLUI HYDRAULIC	1

END OF FIGURE

SECTION II

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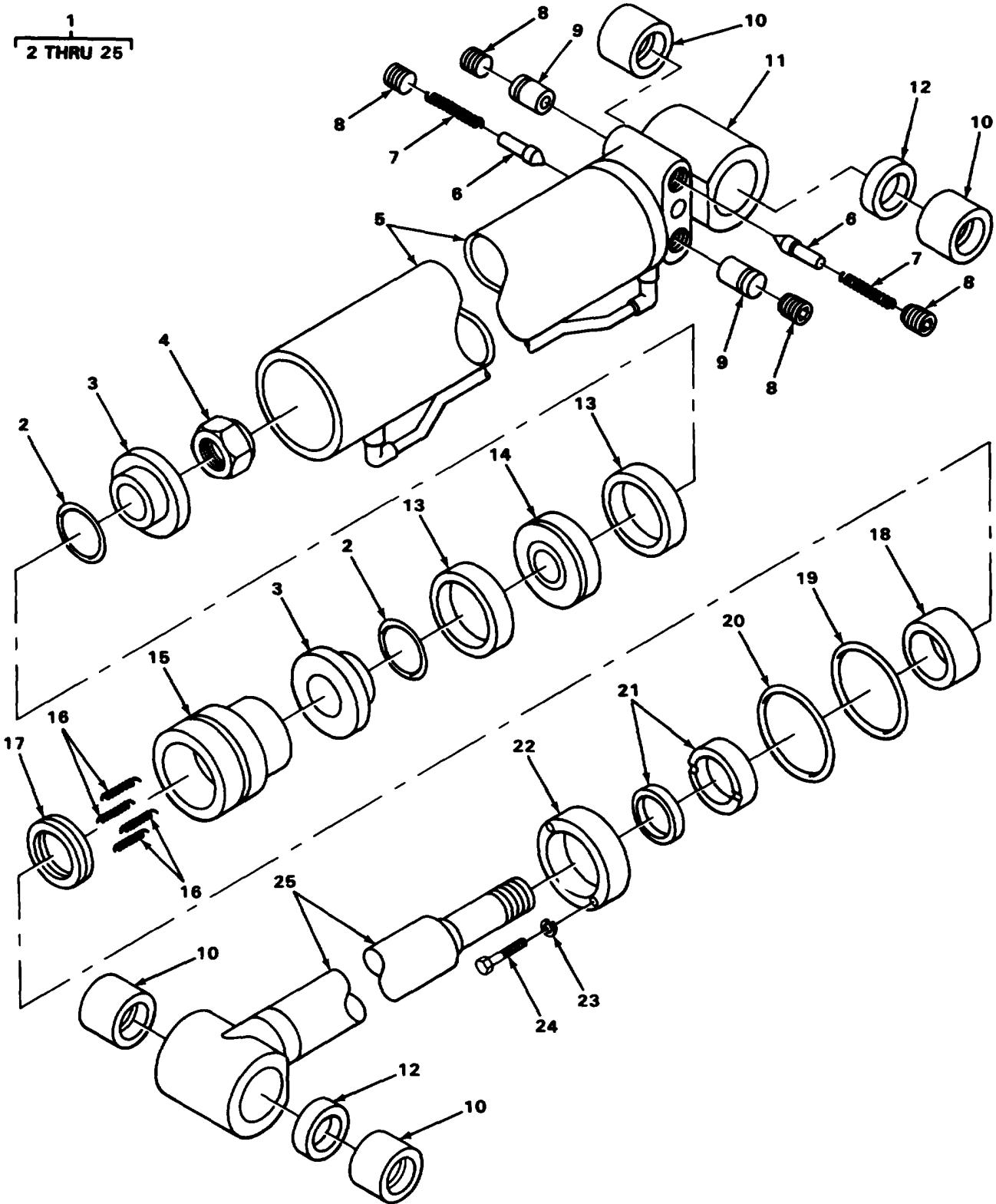


FIGURE 14. HYDRAULIC FEED SWING CYLINDER.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 2407 HYDRAULIC CYLINDERS					
FIG. 14 HYDRAULIC FEED SWING CYLINDER					
1	PAFFF	89413	501002-340	CYLINDER ASSEM8LY,A ASSEMBLY,..... HYDRAULIC.....	1
2	XDFZZ	89413	1139437	.O-RING	2
3	XDFZZ	89413	1139400-108	.PLATE,BACKING	2
4	XDFZZ	89413	1139369-71	.NUT,LOCK	1
5	XDFZZ	89413	1139205-134	.BARREL ASSEMBLY.....	1
6	XDFZZ	89413	1139421-31	.POPPET	2
7	XDFZZ	89413	1139517-29	.SPRING	2
8	XDFZZ	89413	901930-4	.PLUGPIPE	4
9	XDFZZ	89413	1139398-208	.PILOT HEK PISTON	2
10	XDFZZ	89413	903347-23	.BUSHING	4
11	XDFZZ	89413	3139201-30	.HEAD,CAP	1
12	XDFZZ	89413	1139513-28	.SPACER	2
13	XOFZZ	89413	1139373-26	.U-CUP	2
14	XDFZZ	89413	1139398-76	.PISTON	1
15	XDFZZ	89413	1139285-20	.CYLINDER HEAD	1
16	XOFZZ	89413	1139517-38	.SPRING	6
17	XDFZZ	89413	1139045-49	.ADAPTER,MALE	1
18	XDFZZ	89413	1139373-40	.PACKING,PREFORMED	1
19	XDFZZ	89413	1139437-41	.O-RING	1
20	XDFZZ	89413	903137-19	.RING,BAKUP	1
21	XDFZZ	89413	1139369	.NUT,GLAND	1
22	XDFZZ	89413	1139609-5	.WIPER,ROD	1
23	XDFZZ	89413	1562104-97	.WASHER,LOCK ROD WIPER	2
24	XDFZZ	89413	900388-160	.SCREW,CAP,BUTTON HEAD	2
25	XDFZZ	89413	3139398-224	.PISTON ROD ASSEMBLY.....	1

END OF FIGURE

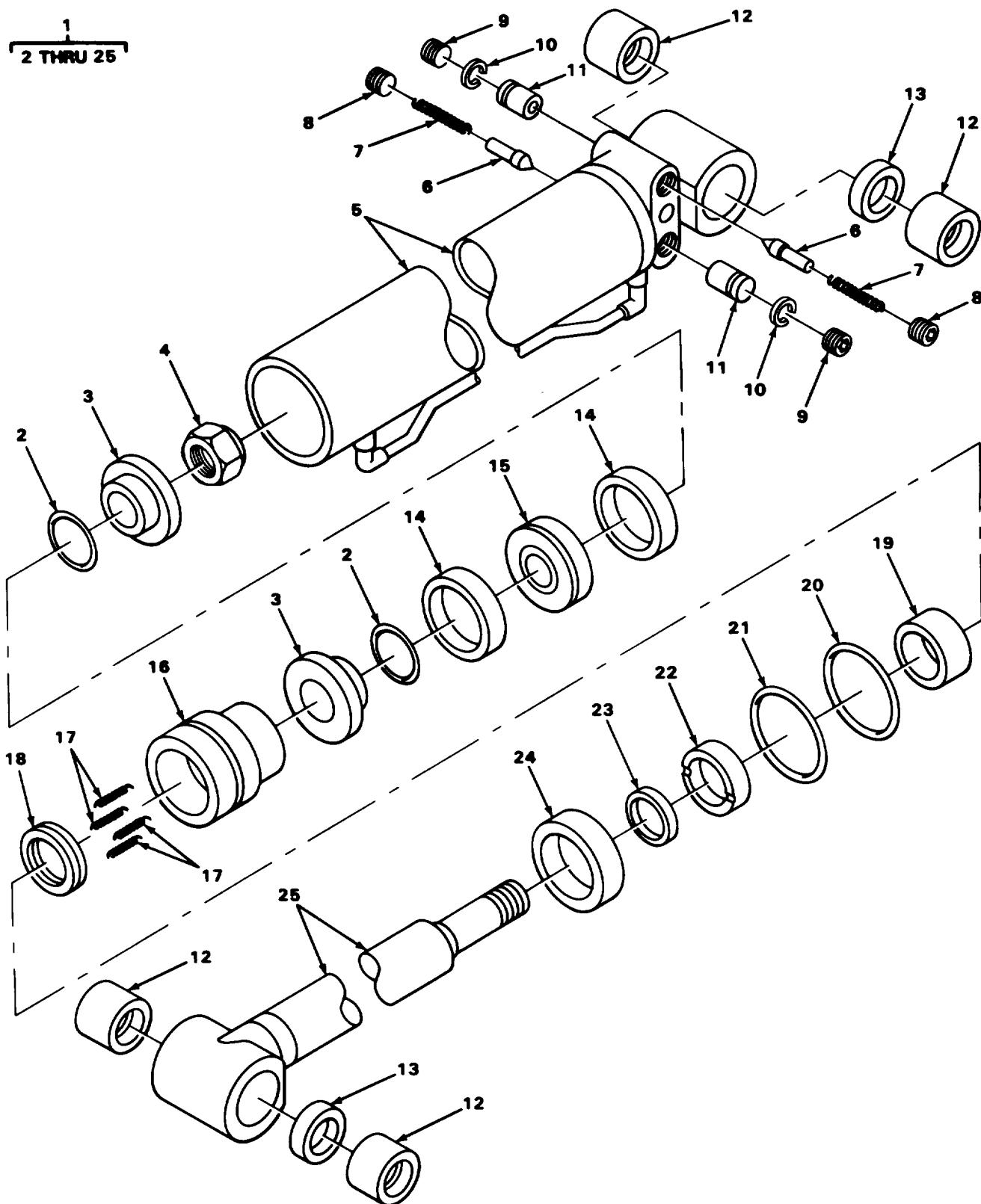


FIGURE 15. HYDRAUUC BOOM SWING CYLINDER.

ITEM NO	SECTION II SMR CODE	CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 2407 HYDRAULIC CYLINDERS					
FIG. 15 HYDRAULIC BOOM SWING CYLINDER					
1	XDFFF	89413	501002-312	SWING,CYLINDER ASSEMBLY,HYDRAULIC.....	1
2	XDFZZ	89413	904341-27	.O-RING	2
3	XDFZZ	89413	1139400-108	.PLATE,BACKING.....	2
4	XDFZZ	90407	A221874P11	.NUT,SELF-LOCKING,HE	1
5	XDFZZ	89413	1139205-106	.BARREL ASSEMBLY.....	1
6	XDFZZ	89413	1139421-23	.POPPET	2
7	XDFZZ	89413	1139517-29	.SPRING.....	2
8	XDFZZ	89413	901930-4	.PLUG,PIPE	2
9	XDFZZ	89413	901930-6	.PLUG,PIPE	2
10	XDFZZ	89413	1139441-11	.RING1PISTON	2
11	XDFZZ	89413	1139398-80	.PILOT CHECK PISTON.....	2
12	XDFZZ	89413	903347-23	.BUSHING	4
13	XDFZZ	89413	1139513-28	.SPACER.....	2
14	XDFZZ	89413	1139373-26	.U-CUP	2
15	XDFZZ	89413	1139398-16	.PISTON	1
16	XDFZZ	89413	1139285-12	.HEADICYLINDER	1
17	XDFZZ	89413	1139517-28	.SPRING.....	4
18	PAFZZ	89413	1139045-33	.RETAINER,PACKING	1
19	XDFZZ	89413	1139373-25	.V-PACKING.....	1
20	XDFZZ	89413	902298-19	.O-RING	1
21	XOFZZ	89413	903137-19	.RING,BACKUP.....	1
22	XDFZZ	89413	1139369-28	.NUT,GLANOD.....	1
23	XDFZZ	89413	1139609-1	.ROD,WIPER	1
24	PAFZZ	89413	1139437-43	.SPACERRING.....	1
25	XDFZZ	89413	3139398-164	.ROD ASSEMBLY PISTON.....	1

END OF FIGURE

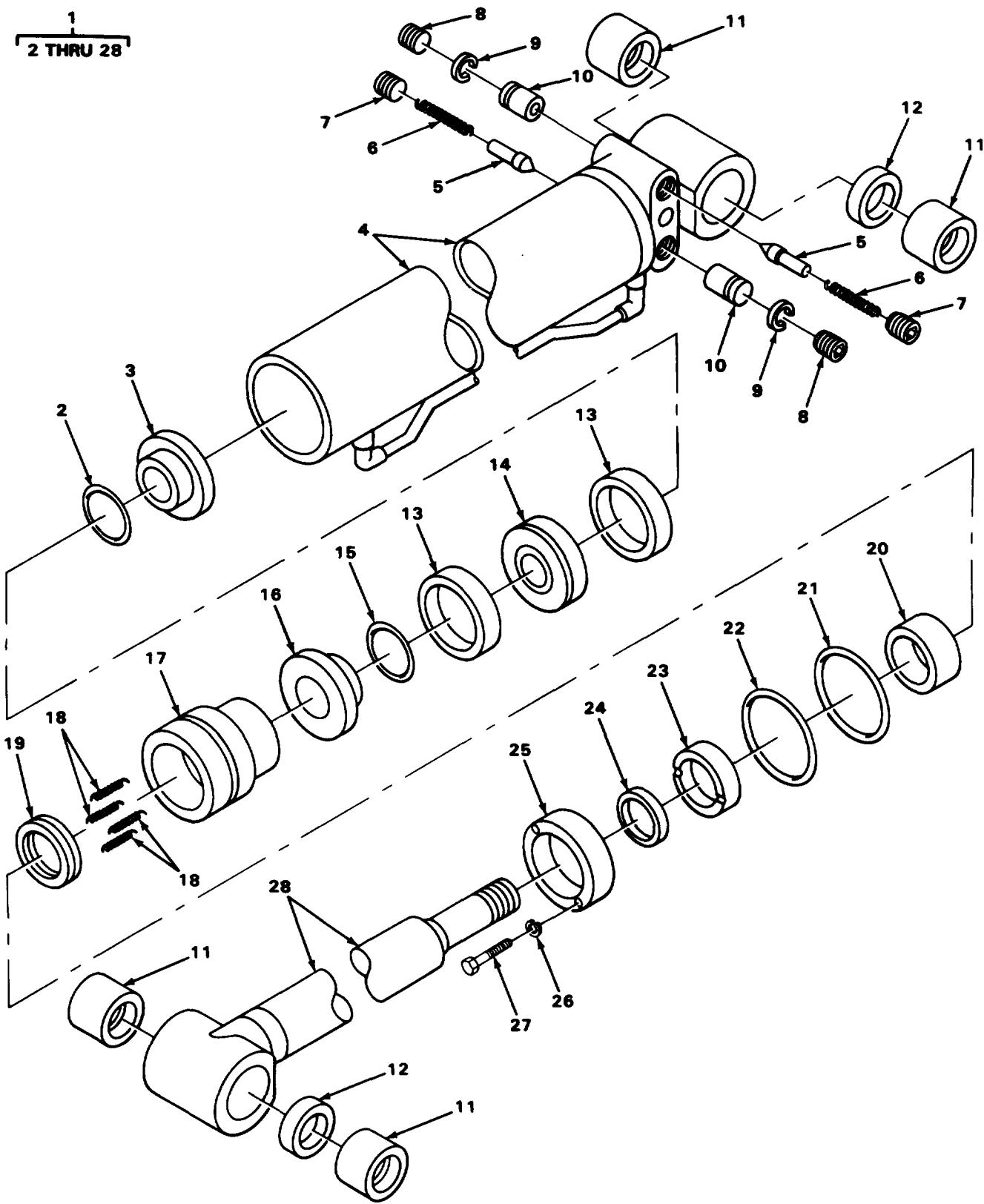


FIGURE 16. HYDRAULIC TILT CYLINDER.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 2407 HYDRAULIC CYLINDERS					
FIG. 16 HYDRAULIC TILT CYLINDER					
1	XDFFF	89413	501002-316	CYLINDER, TILT ASSEMBLY	1
2	XDFZZ	89413	902301-9	.O-RING	1
3	XDFZZ	89413	1139400-287	.PLATE, BACKING	1
4	XDFZZ	89413	3139205-118	.BARREL ASSEMBLY	1
5	XDFZZ	89413	1139421-31	.POPPET	2
6	XDFZZ	89413	1139517-29	.SPRING	2
7	XDFZZ	89413	901930-4	.PLUG, PIPE	2
8	XDFZZ	89413	901930-6	.PLUG, PIPE	2
9	XDFZZ	89413	1139437-39	.RING, PISTON	2
10	XDFZZ	89413	1139399-75	.PILOT CHECK PISTON	2
11	XDFZZ	89413	903347-23	.BUSHING	4
12	XDFZZ	89413	1139513-26	.SPACER	2
13	XDFZZ	89413	1139373-34	.U-CUP	2
14	XDFZZ	92852	10519	.PISTON	1
15	XDFZZ	89413	902301-4	.O-RING	1
16	XDFZZ	89413	1139400-126	.PLATE, BACKING	1
17	XDFZZ	89413	1139285-26	.HEAD, CYLINOER	1
18	XDFZZ	89413	1139517-28	.SPRING	6
19	XDFZZ	89413	1561329	.ADAPTER, MALE	1
20	XDFZZ	89413	1562104-10	.V-PACKING	1
21	XDFZZ	89413	902301-27	.O-RING	1
22	XDFZZ	89413	903137-27	.RINGIBACKUP	1
23	XDFZZ	89413	1139369-47	.NUTIGLAND	1
24	XDFZZ	89413	1561326	.WIPER, ROD	1
25	XDFZZ	89413	1139437-80	.RING, RETAINER	1
26	XDFZZ	89413	1705392-10	.WASHER, LOCK	2
27	XDFZZ	89413	900388-160	.SCREW, CAP, BUTTON HEAD	2
28	XDFZZ	89413	3139398-202	.PISTON ROD ASSEMBLY	1

END OF FIGURE

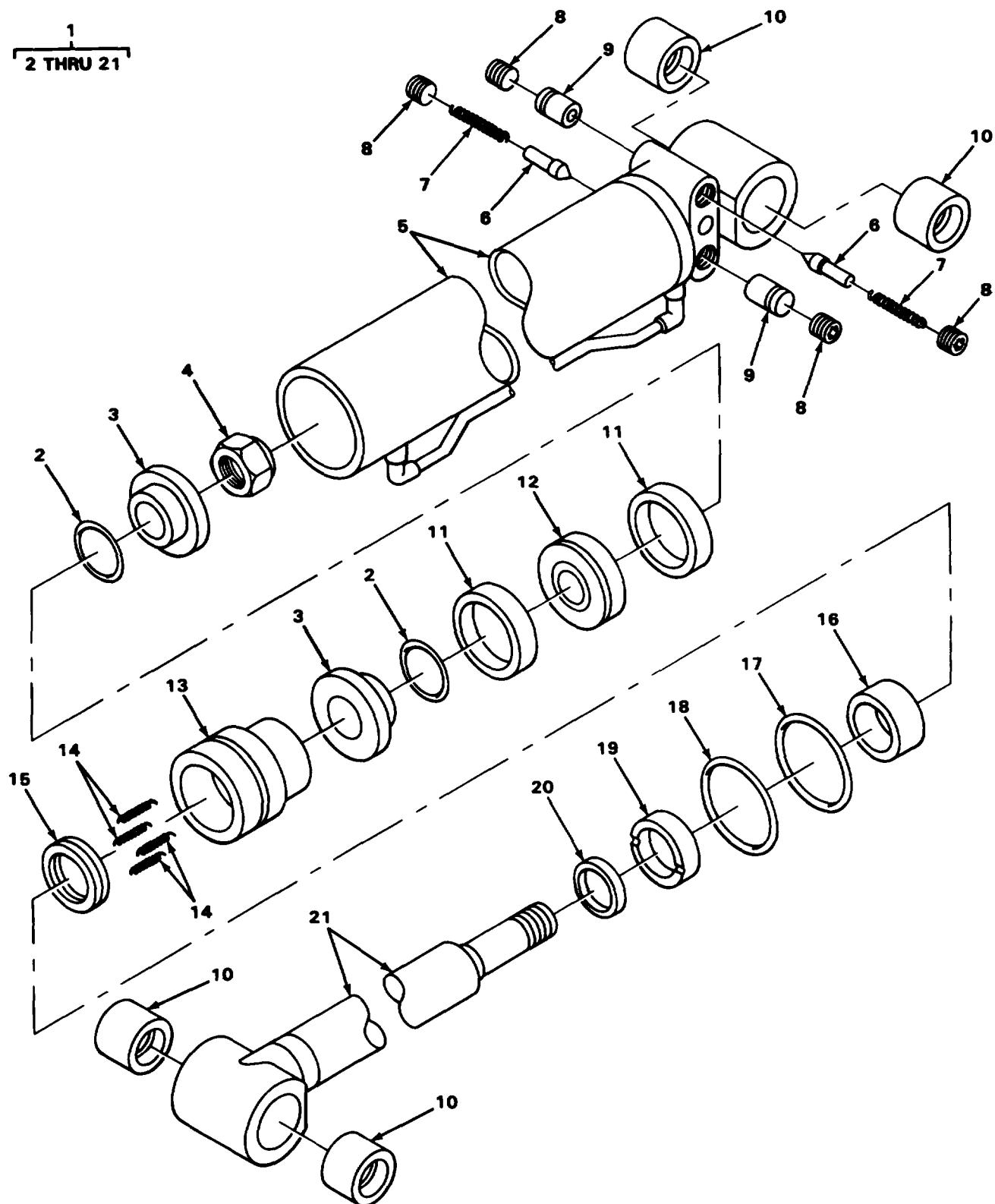


FIGURE 17. HYDRAULIC EXTENSION CYLINDER.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5)	(6)			
				DESCRIPTION AND USABLE ON CODES (UOC)	QTY			
GROUP 2407 HYDRAULIC CYLINDERS								
FIG. 17 HYDRAULIC EXTENSION CYLINDER								
1	XDFFF	89413	501002-257	CYLINDER,FEED EXTENSION ASSEMBLY	1			
2	XDFZZ	89413	1139437-47	HYDRAULIC.....	2			
3	XDFZZ	89413	1139400-111	.PACKING,PREFORMED	2			
4	XDFZZ	89413	1139369-32	.PLATE,BACKING	1			
5	XDFZZ	89413	1139205-69	.NUT,LOCK	1			
6	XDFZZ	89413	1139421-27	.BARREL ASSEMBLY	1			
7	XDFZZ	89413	1139517-42	.PLUNGER,POPPET CHECK	2			
8	XDFZZ	89413	901930-4	.SPRING	2			
9	XDFZZ	89413	1139398-106	.PLUG,PIPE	4			
10	XDFZZ	89413	903347-23	.PISTON,CHECK VALVE	2			
11	XDFZZ	89413	1139373-28	.BEARING,RACE	1			
12	XDFZZ	89413	1139398-82	.U-CUP	1			
13	XDFZZ	89413	1139285-14	.PISTON	1			
14	XDFZZ	89413	1139517-30	.HEAD,CYLINDER	1			
15	XDFZZ	89413	1139045-35	.SPRING	4			
16	XDFZZ	89413	1139373-30	.ADAPTER,MALE	1			
17	XDFZZ	89413	1139437-48	.V-PACKING	1			
18	XDFZZ	89413	1139437-50	.O-RING	1			
19	XDFZZ	89413	16479	.BACK UP RING	1			
20	XDFZZ	89413	1139609-3	.NUT,GLAND	1			
21	XDFZZ	89413	1139398-84	.WIPER,ROD	1			
				.PISTON ROD ASSEMBLY	1			

END OF FIGURE

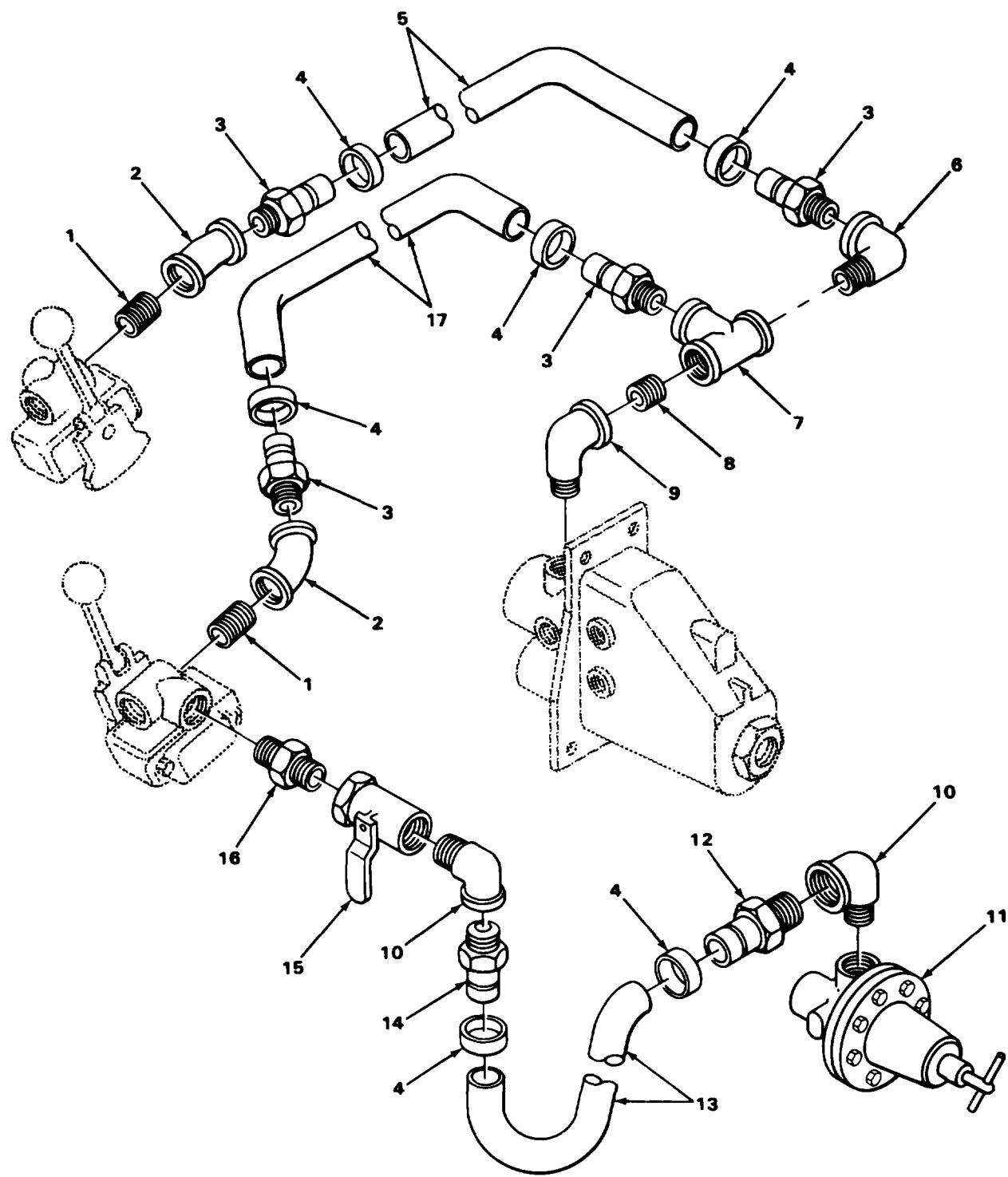


FIGURE 18. AIR REGULATOR, LINES AND FITTINGS.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 43 GAS, AIR AND VACUUM SYSTEM					
GROUP 4316 HOSES, FITTINGS, LINES, BREATHERS AND TRAPS					
FIG. 18 AIR REGULATOR, LINES AND FITTINGS					
1	XOFZZ	89413	501046-5	REGULATOR,PRESSURE	1
2	PAOZZ	97403	13218E0051-5	ELBOW,PIPE	2
3	XDOZZ	89413	906156-2020	NIPPLE,HOSE	4
4	XDOZZ	89413	1139863	STRAP,RETAINING.....	6
5	MOOZZ	19207	1599W5-01	HOSE TO LEFT THROTTLE MAKE FROM	1
				HOSE P/N 1599W5.....	
6	PAOZZ	89413	901046-8	ELBOWPIPE	1
7	PAOZZ	89413	905329-32	TEE,PIPE TEE REDUCING.....	1
8	XDOZZ	83179	902466-1225	NIPPLE,PIPE	1
9	PAOZZ	89413	901046-7	ELBOW,PIPE	1
10	PAOZZ	30379	141621	ELBOW,PIPE	2
11	XDFZZ	89413	501046-5	REGULATOR,PRESSURE	1
12	XDOZZ	89413	906156-1034	NIPPLE,HOSE	1
13	MOOZZ	19207	1599W4-01	HOSE TO RIGHT THROTTLE MAKE FROM	1
				HOSE P/N 1599W4.....	
14	XDOZZ	89413	906156-1010	ADAPTER,STRAIGHT,PI.....	1
15	XDOZZ	89413	501016-103	VALVE,BALL	1
16	XDOZZ	39413	901158-17	BUSHING,REDUCING.....	1
17	MOOZZ	19207	1599W5-02	HOSE TO RIGHT THROTTLE MAKE FROM	1
				HOSE P/N 1599W.....	

END OF FIGURE

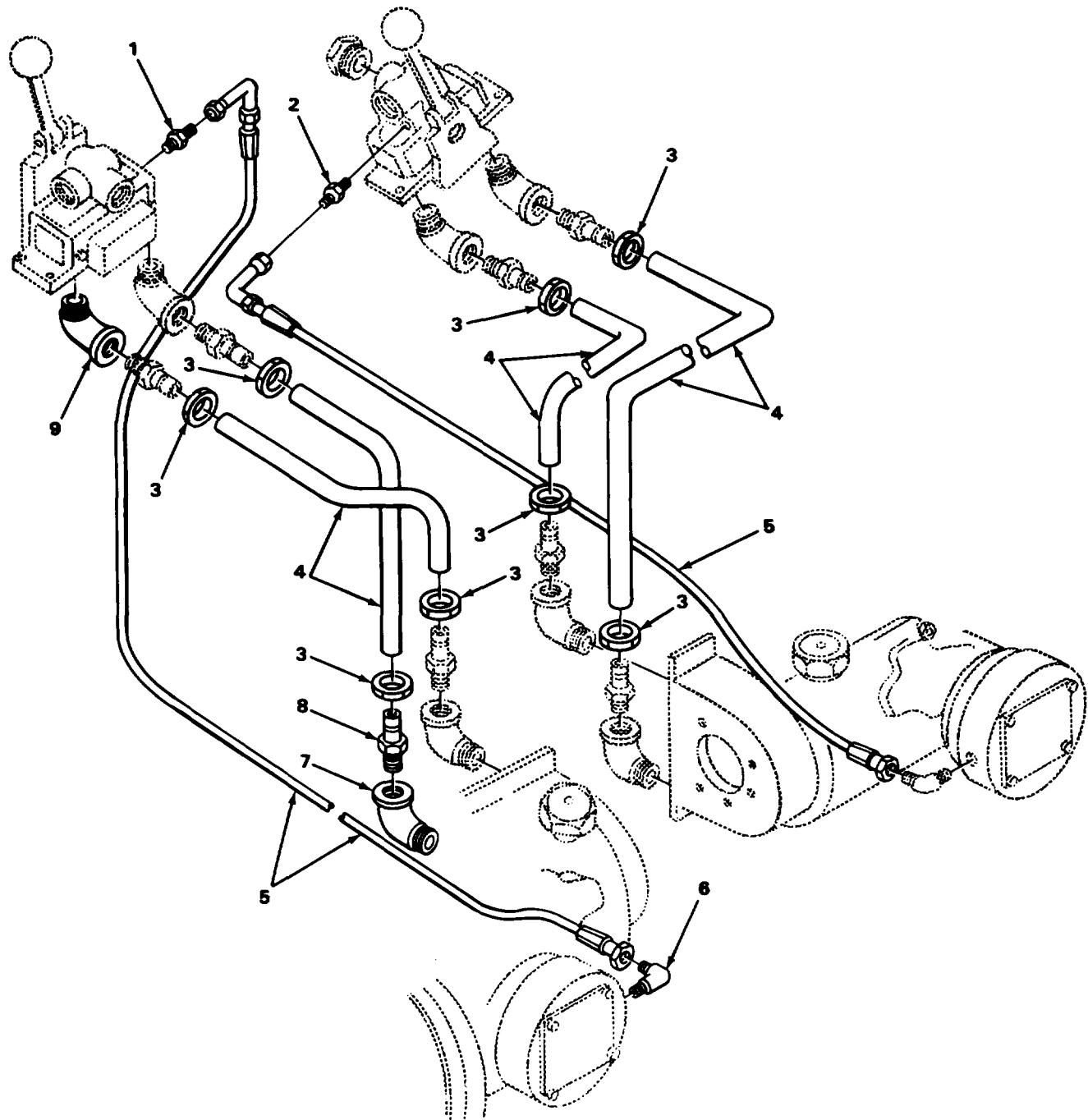


FIGURE 19. AIR HOSES AND FITTINGS.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 4316 HOSES, FITTINGS, LINES, BREATHERS AND TRAPS					
FIG. 19 AIR HOSES AND FITTINGS					
1	XDOZZ	89413	3139557-38	ELBOW,PIPE TO HOSE	1
2	PAOZZ	98441	0188-12-12	ADAPTER,STRAIGHT,PI.....	1
3	XDOZZ	89413	1139863	STRAP,RETAINING.....	8
4	MOOZZ	19207	1599W5-40-01	HOSE VALVE TO MOTOR MAKE FROM HOSE..... P/N 1599W5-40.....	4
5	MOOZZ	19207	1599W3-01	HOSE MAKE FROM HOSE P/N 1599W3.....	2
6	XDOZZ	89413	901046-6	ELBOW,PIPE	1
7	PAOZZ	89413	901046-27	ELBOW,PIPE	1
8	XDOZZ	89413	906156-2020	NIPPLE,HOSE	1
9	PAOZZ	89413	901046-7	ELBOW,PIPE	1

END OF FIGURE

19-1

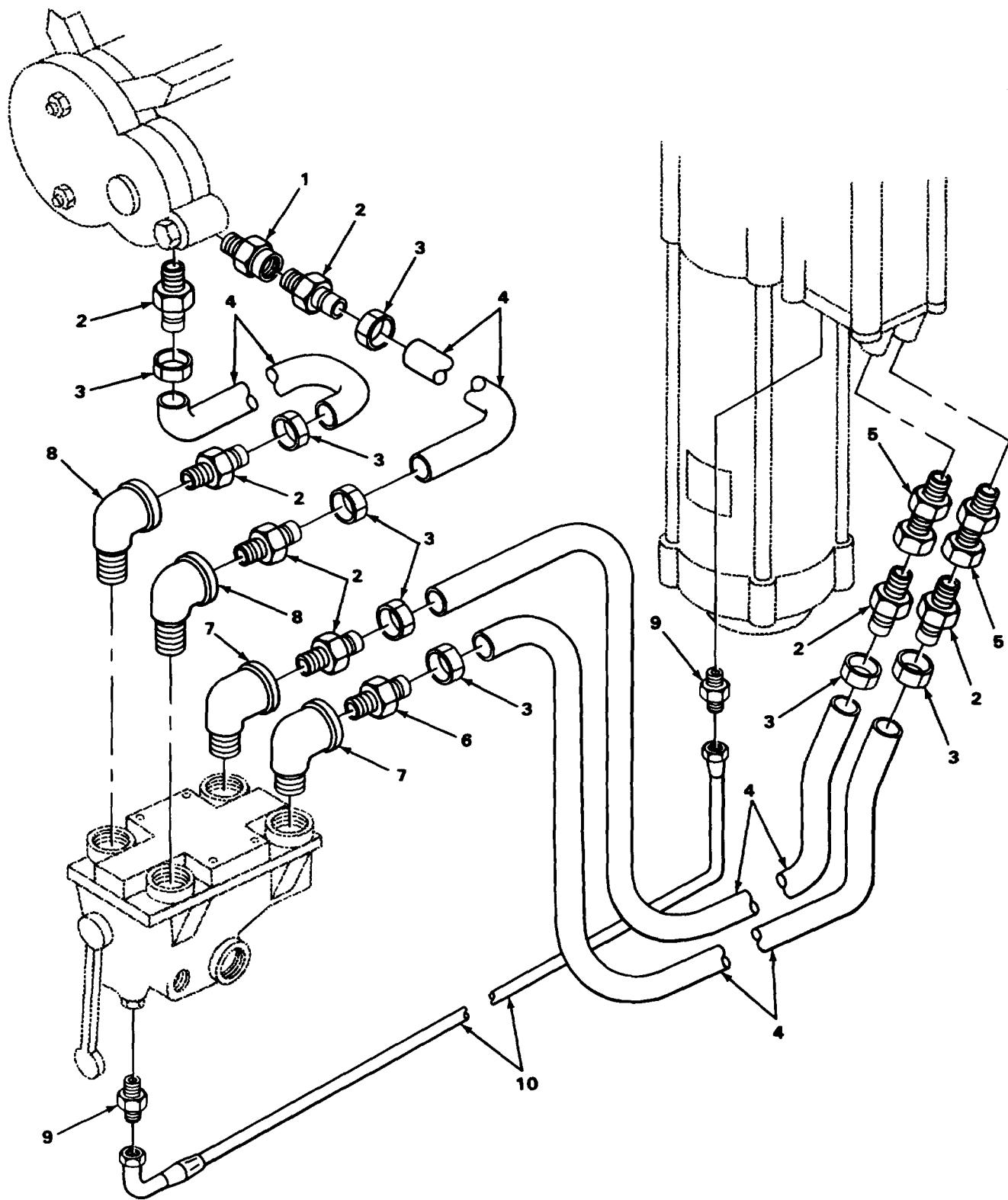


FIGURE 20. FEED VALVE TO FEED MOTOR LINES AND FITTINGS.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 4316 HOSES, FITTINGS, LINES BREATHERS AND TRAPS					
FIG. 20 FEED VALVE TO FEED MOTOR LINES AND FITTINGS					
1	XDOZZ	89413	901160-13	BUSHING,PIPE.....	1
2	PAOZZ	9B441	0188-12-12	ADAPTER,STRAIGHT1PI.....	6
3	XDOZZ	70847	J305	BANDHOSE	8
4	MOOZZ	19207	1599W3-01	HOSE VALVE TO FEED MOTOR MAKE FROM..... HOSE P/N 1599W3.....	4
5	PAOZZ	05643	NP5002005	COUPLING,PIPE	2
6	PAOZZ	70847	E036	ADAPTER,STRAIGHT,PI.....	2
7	XDOZZ	89413	901046-6	ELBOW,PIPE	2
8	PAOZZ	30379	141621	ELBOW,PIPE	2
9	PAOZZ	96906	MS51500A8	ADAPTER,STRAIGHT,PI.....	2
10	MOOZZ	19207	902085-8-01	HOSE ASSEMBLY MAKE FROM HOSE P/N..... 902085-8	1

END OF FIGURE

20-1

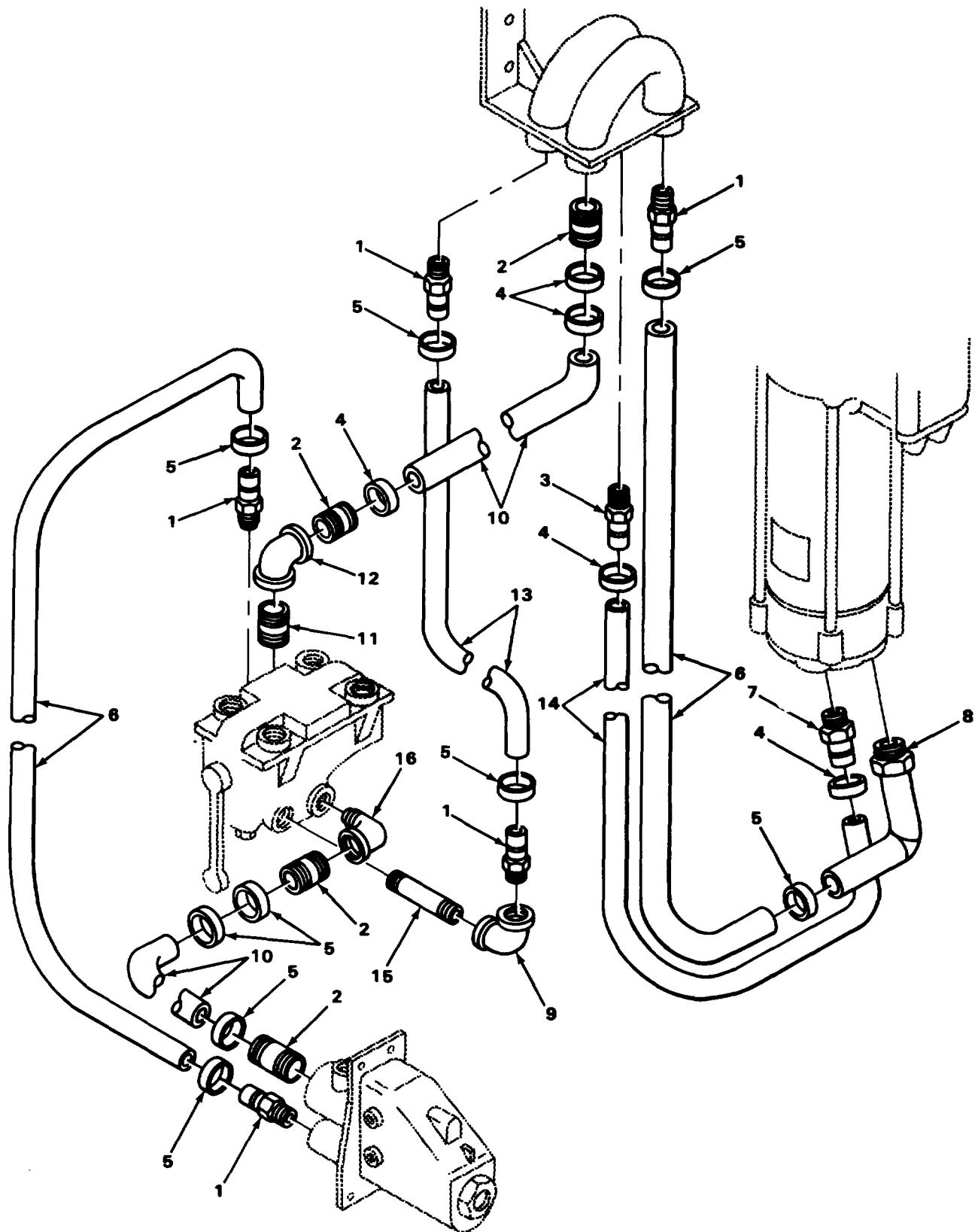


FIGURE 21. FEED VALVE TO MANIFOLD LINES AND FITTINGS.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 4316 HOSES, FITTINGS LINES, BREATHERS AND TRAPS	
				FIG. 21 FEED VALVE TO MANIFOLD LINES AND FITTINGS	
1	XDOZZ	89413	906156-1010	ADAPTER,STRAIGHT,PI.....	5
2	XDOZZ	89413	906161-32	NIPPLE,HOSE	4
3	XDOZZ	63906	24-120243	ADAPTER,STRAIGHT,PI.....	1
4	XDOZZ	89413	1139864	STRAP,RETAINING.....	5
5	XDOZZ	89413	1139863	STRAP,RETAINING.....	8
6	MOOZZ	19207	1599W4-01	HOSE MAKE FROM HOSE P/N 1599W4.....	2
7	XDOZZ	89413	901623-24	ADAPTER	1
8	XDOZZ	89413	3139557-39	ADAPTER,STRAIGH,HO	1
9	XDOZZ	89413	901023-6	ELBOW	1
10	MOOZZ	19207	1599W8-01	HOSE MAKE FROM HOSE P/N 1599W8.....	2
11	PAOZZ	91340	MPD9484-58-13	NIPPLE,PIPE	1
12	XDOZZ	83179	901023-9	ELBOW,PIPE TO HOSE	1
13	MOOZZ	19207	1599W4-31-01	HOSE MAKE FROM HOSE P/N 1599W4-31	1
14	MOOZZ	19207	1599W6-01	HOSE MAKE FROM HOSE P/N 1599W6.....	1
15	XDOZZ	89413	901176-132	NIPPLE,PIPE	1
16	PAOZZ	29510	187154	ELBOW,PIPE	1

END OF FIGURE

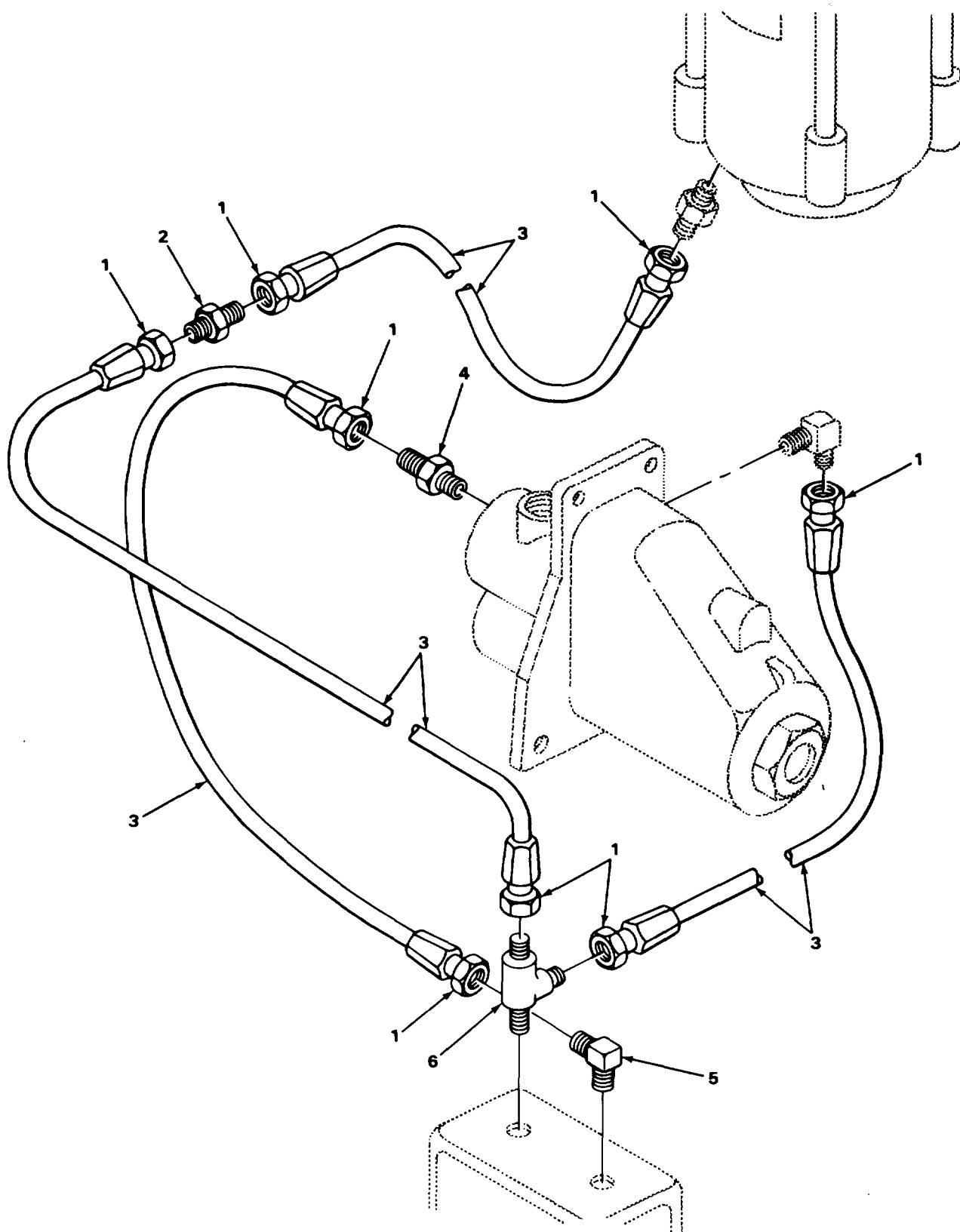


FIGURE 22. FEED VALVE TO DRILL MOTOR LINES AND FITTINGS.

SECTION II				(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 4316 HOSES1 FITTINGS, LINES, BREATHERS AND TRAPS					
FIG 22 FEED VALVE TO DRILL MOTOR LINES AND FITTINGS					
1	XDOZZ	89413	904015-8	SWIVEL,FEMALE	8
2	PAOZZ	96906	MS51500A6-6	ADAPTER,STRAIGHT,PI.....	1
3	MOOZZ	19207	902085-8-1	HOSE MAKE FROM HOSE P/N 902085-8.....	4
4	XDOZZ	89413	904015-6	FITTING,HOSE	1
5	PAOZZ	89413	907304-66	ELBOW,PIPE TO TUBE	1
6	PAOZZ	96906	MS20826-6	TEE,PIPE TO TUBE	1

END OF FIGURE

1
2 THRU 35

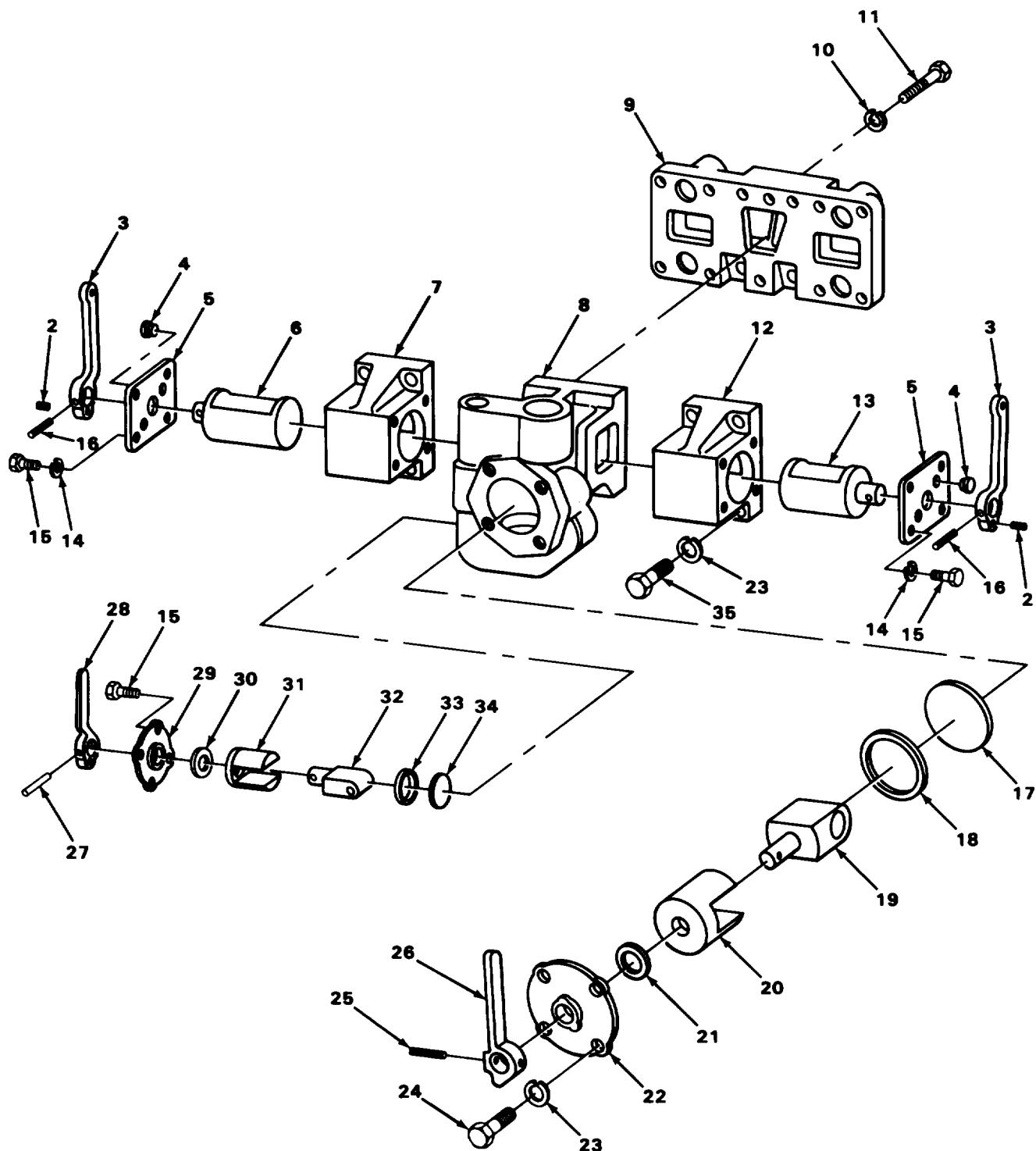


FIGURE 23. ROTATION VALVE.

SECTION II			(4)	(5)	(6)
ITEM NO	(2) SMR CODE	(3) CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 4317 CONTROL VALVES					
FIG. 23 ROTATION VALVE					
1	PAFFF	89413	501052-42	VALVE ASSEMBLY,ROTA	1
2	XDFZZ	89413	3139213-6	.DETENT VALVE ASSEMBLY	2
3	XDFZZ	89413	1139281-106	.HANDLE	2
4	XDFZZ	89413	1139389-200	.PIN END PLATE	2
5	XDFZZ	89413	1139400-257	.PLATE,END	2
6	XDFZZ	89413	1139581-109	.VALVE,ROTATION	1
7	XDFZZ	89413	1139085-60	.BODY,ROTATION	1
8	XDFZZ	89413	1139085-46	.BODY VALVE ASSEMBLY	1
9	XDFZZ	89413	1139353-33	.MANIFOLD	1
10	XDFZZ	89413	900306-4	.WASHER,LOCK MANIFOLD MTG	2
11	XDFZZ	89413	902224-106	.SCREW,CAP,SOCKET HEAD,MANIFOLD MTG	2
12	XDFZZ	89413	1139085-66	.BODY,FEED.....	1
13	XDFZZ	89413	1139581-134	.VALVE,FEED	1
14	XDFZZ	89413	900302-1	.WASHER,LOCK CAP MTG	8
15	XDFZZ	89413	900020-1	.SCREW,CAP,HEXAGON HEAD,CAP MTG	8
16	XDFZZ	89413	904685-108	.PIN,SPRING.....	2
17	XDFZZ	01887	Q2000-2	.DISC.....	1
18	XDFZZ	01887	237	.BODY,SEAL	1
19	XDFZZ	01887	D2000-2	.DRIVER.....	1
20	XOFZZ	01887	CS2000-2	.CLEVIS SEAL	1
21	XDFZZ	01887	216	.SEAL,STEM	1
22	XDFZZ	01887	C2000-2	.CAP,HANDLE VALVE	1
23	XDFZZ	89413	900302-3	.WASHER,LOCK BODY TO MANIFOLD	12
24	XDFZZ	89413	900020-3	.SCREW,CAP,HEXAGON HEAD,BODY TO	4
				MANIFOLD	
25	PAFZZ	96906	MS16562-73	.PIN,SPRING.....	1
26	XDFZZ	01887	H2000-2	.HANDLE,VALVE	1
27	XDFZZ	01887	590401871125	.PIN,ROLL	1
28	XDFZZ	01887	H1000-2	.HANDLE,VALVE	1
29	XDFZZ	01887	C1000-2	.CAP,HANDLE VALVE	1
30	XDFZZ	01887	115	.SEAL,STEM	1
31	XDFZZ	01887	CS1000-2	.CLEVIS,SEAL	1
32	XDFZZ	01887	D1000-2	.DRIVER.....	1
33	XDFZZ	01887	132	.SEAL,BODY	1
34	XDFZZ	01887	Q1000	.DISC.....	1
35	XDFZZ	89413	900020-23	.SCREW CAP,HEXAGON HEAD,BODY MTG	8

END OF FIGURE

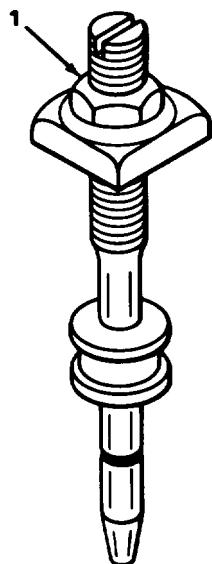


FIGURE 24. METERING VALVE.

SECTION II**TM 5-3820-241-24P**

(1) ITEM	(2) SMR NO	(3) CAGEC	(4) PART	(5)	(6)

				NUMBER DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 4317 CONTROL VALVES	
				FIG 24 METERING VALVE	
1	XDFZZ	89413	501003-43	VALVE, METERING HYDRAULIC OIL FLOW TO AIR SYSTEM.....	1
END OF FIGURE					

24-1

1
2 THRU 19

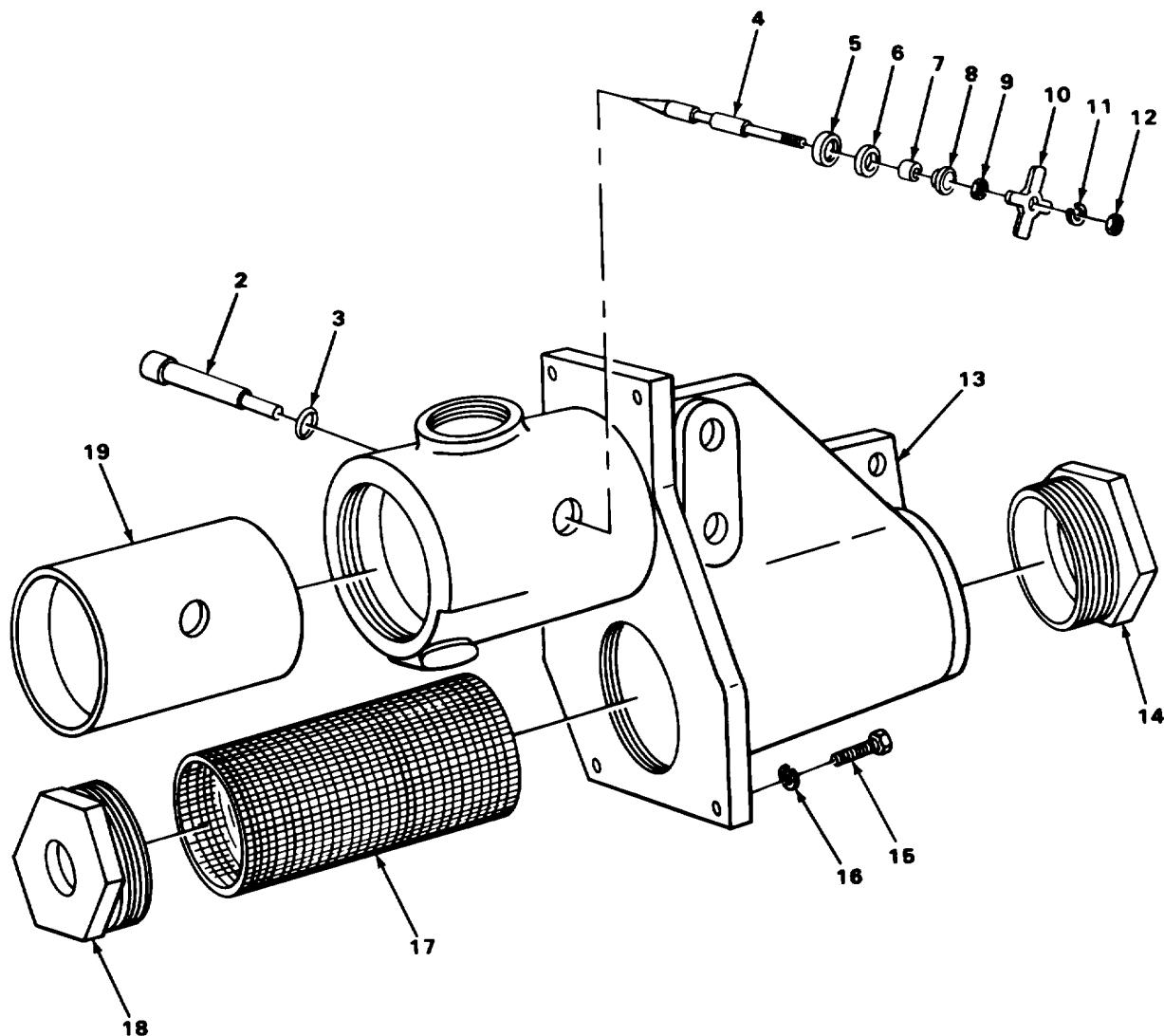


FIGURE 25. OIL INJECTOR.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 50 PNEUMATIC EQUIPMENT
GROUP 5006 LUBRICATION SYSTEM

FIG. 25 OIL INJECTOR

1	PAOFF	89413	501003-26	OILER ASSEMBLY, AIRL INJECTION	1
2	XDFZZ	89413	3139085-16	.BODY, VALVE.....	1
3	XDFZZ	83179	902277-11	.PACKING PREFORMED VALVE BODY	1
4	XDFZZ	89413	1139529-7	.STEM	1
5	XDFZZ	89413	906365-6	.SEAL, PIPE THREAD	1
6	XDFZZ	89413	1139601-39	.WASHER SPECIAL STEM	1
7	XDFZZ	89413	1139373-19	.PACKING, PREFORMED	1
8	XDFZZ	89413	1139701	.FOLLOWER	1
9	XDFZZ	89413	1139369-19	.NUT, PLAIN HEXAGON STEM	1
10	XDFZZ	89413	1139281-34	.HANDLE	1
11	XDFZZ	89413	900597-3	.WASHER, LOCK HANDLE MTG	1
12	XDFZZ	75477	900402-12	.NUT, HEXAGON HANDLE MTG	1
13	XDFZZ	89413	1139085-17	.BODY, OILER	1
14	XDFZZ	80996	2139-3X2	.BUSHING PIPE BUSHING REDUCING	1
15	XDOZZ	89413	900020-24	.SCREW HEXAGON HEAD INJECTOR MTG	4
16	XDOZZ	89413	900302-4	.WASHER, LOCK INJECTOR MTG	4
17	XDFZZ	89413	1139469-2	.SCREEN, OILER.....	1
18	XDFZZ	89413	1139125-138	.BUSHING, PIPE	1
19	XDFZZ	89413	1139125-139	.BUSHING, OILER	1

END OF FIGURE

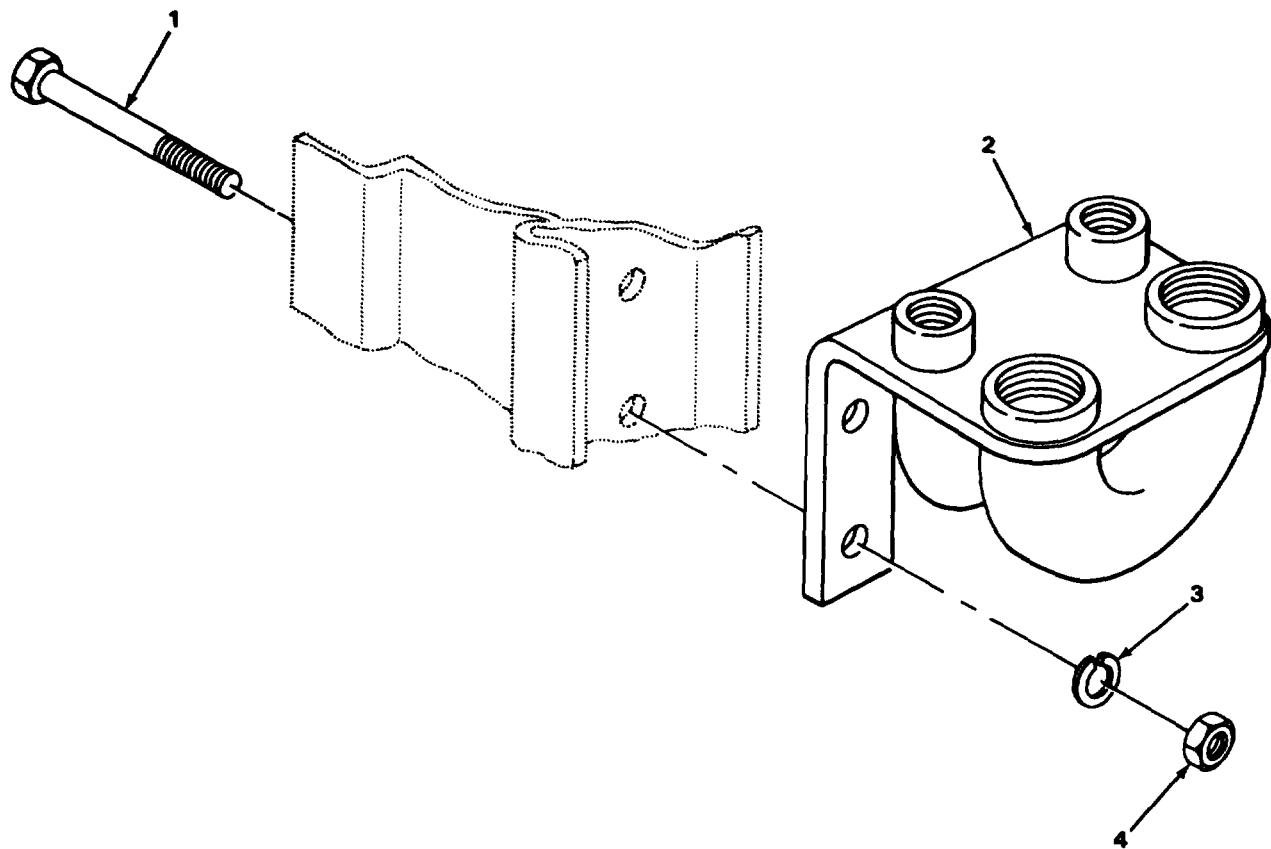


FIGURE 26. AIR DISCHARGE MANIFOLD.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5015 AIR DISCHARGE SYSTEM

FIG. 26 AIR DISCHARGE MANIFOLD

1	XDOZZ	89413	900020-215	SCREW, CAP, HEXAGON .. HEAD, MANIFOLD MTG	2
2	XDOZZ	89413	3139353-41	MANIFOLD DISCHARGE	1
3	XDOZZ	89413	900302-64	WASHER, LOCK MANIFOLD MTG	2
4	XDOZZ	89413	900160-6	NUT, PLAIN, HEXAGON MANIFOLD MTG	2

END OF FIGURE

26-1

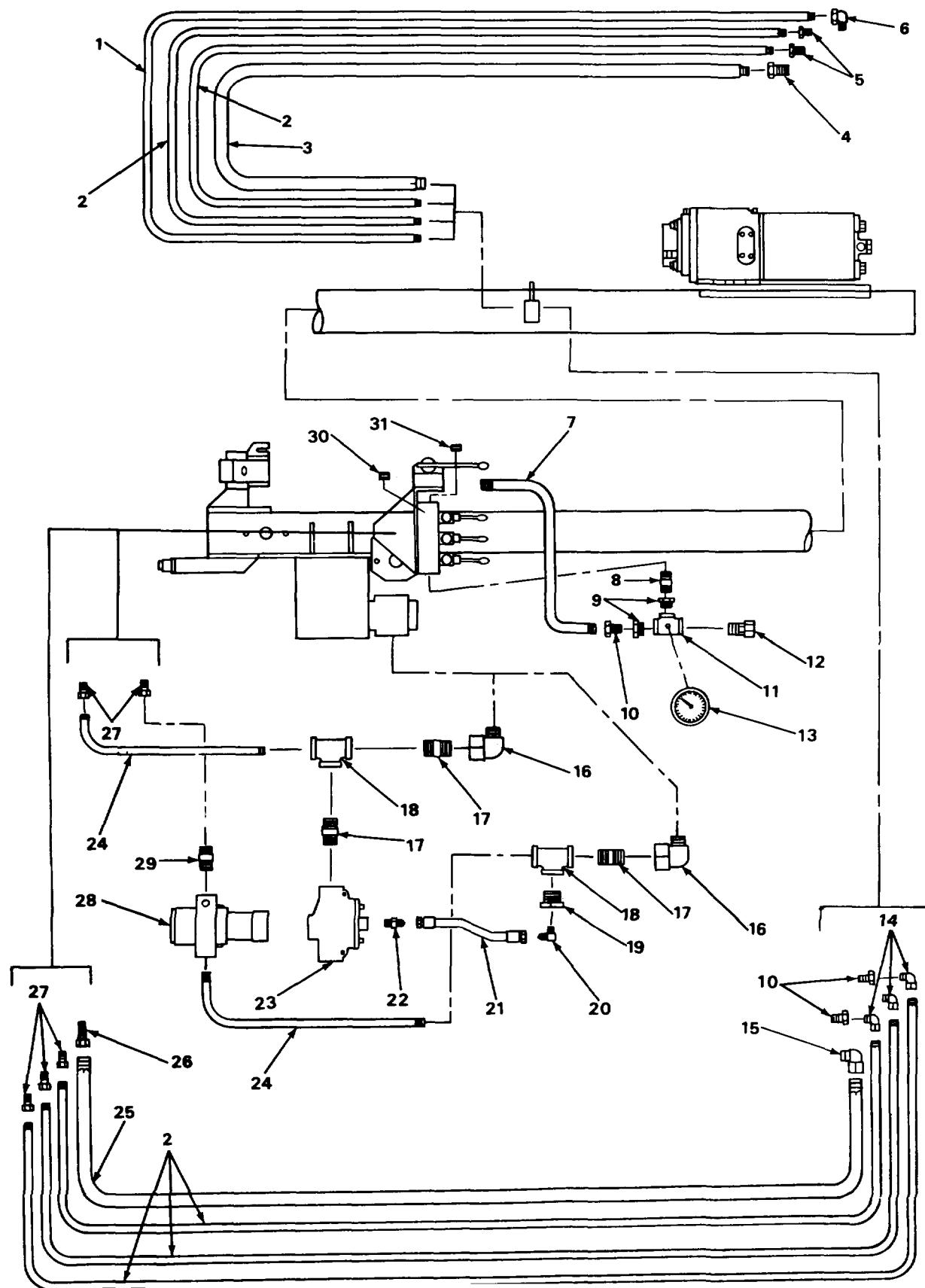


FIGURE 27. AIR LINES, FITTINGS, AND RELATED PARTS (RETROFIT KIT).

SECTION II**TM 5-3820-241-24P**

(1) ITEM	(2) SMR NO	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5015 AIR DISCHARGE SYSTEM

FIG. 27 AIR LINES, FITTINGS, AND RELATED PARTS (RETROFIT KIT)

1	PAOZZ	ODP42	20660	HOSE ASSEMBLY, NONME	1
2	PAOZZ	ODP42	20670	HOSE ASSEMBLY, NONME	5
3	PAOZZ	ODP42	20680	HOSE ASSEMBLY, METAL.....	1
4	PAOZZ	30327	60SA-24X264	COUPLING, PIPE	1
5	PAOZZ	05643	NP5002005	COUPLING, PIPE	2
6	PAOZZ	30327	60UA-12X12	ELBOW, PIPE	1
7	PAOZZ	ODP42	20720	HOSE ASSEMBLY, NONME	1
8	PAOZZ	96906	MS51846-96	NIPPLE, PIPE	1
9	PAOZZ	ODP42	22050	BUSHING, PIPE.....	2
10	PAOZZ	30327	60SA-16X16	COUPLING, PIPE	3
11	PAOZZ	ODP42	20740	T, PIPE	1
12	PAOZZ	30327	60SA-32X32	COUPLING, PIPE	1
13	PAOZZ	ODP42	22070	GAGE, PRESSURE, DIAL	1
14	PAOZZ	30327	60UA-16X16	ELBOW, PIPE	3
15	PAOZZ	30327	60UA-20X20	ELBOW, PIPE	1
16	PAOZZ	30327	60UA-20X16	ELBOW, PIPE	2
17	PAOZZ	ODP42	22170	NIPPLE, PIPE	3
18	PAOZZ	ODP42	22160	T, PIPE	2
19	PAOZZ	80996	21392000PSIIX14	BUSHING, PIPE.....	1
20	PAOZZ	98441	2503-4-4	ELBOW, TUBE TO BOSS	1
21	PAOZZ	ODP42	22200	HOSE ASSEMBLY, NONME	1
22	PAOZZ	96906	MS51500A4-4	ADAPTER, STRAIGHT, PI.....	1
23	PAOZZ	ODP42	22140	VALVE, LINEAR, DIRECT	1
24	PAOZZ	ODP42	20690	HOSE ASSEMBLY, METAL.....	2
25	PAOZZ	ODP42	20710	HOSE ASSEMBLY, METAL.....	1
26	PAOZZ	30327	60SA-16X20	REDUCER, QUICK DISCO.....	1
27	PAOZZ	30327	60SA-08X12	REDUCER, PIPE	5
28	PAOZZ	ODP42	22150	VALVE, REGULATING, FL	1
29	PAOZZ	96906	MS51953-97	NIPPLE, PIPE	1
30	PAOZZ	813486	WW-P-471ACABUD	PLUG, PIPE	7
31	PAOZZ	15434	S962	PLUG, PIPE	1

END OF FIGURE

SECTION II

TM 5-3820-241-24P

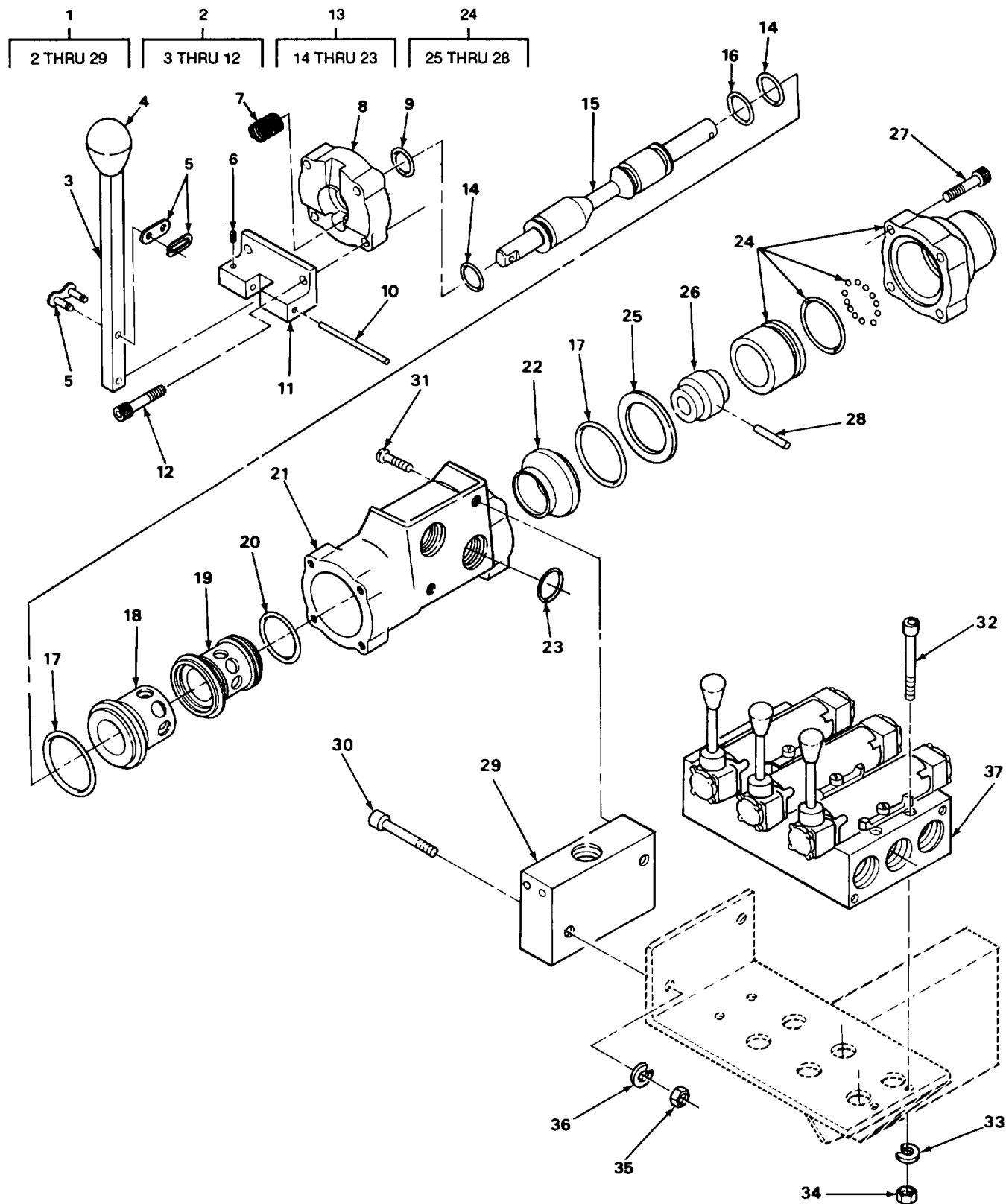


FIGURE 28. HAMMER VALVE (RETROFIT KIT).

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5015 AIR DISCHARGE SYSTEM

FIG. 28 HAMMER VALVE (RETROFIT KIT)

1	XDOFF	ODP42	20380	VALVE ASSEMBLY.....	1
2	PAFZZ	ODP42	SA-4702-69L	.CAP ASSEMBLY.....	1
3	XDOZZ	ODP42	4702-24L	..HANDLE.....	1
4	PAOZZ	ODP42	P-1001-10D	..KNOB	1
5	PAFZZ	97902 4	302-83	..LINK ASSEMBLY, ACTUA.....	1
6	PAFZZ	ODP42	PSS-1032-04	..SETSCREW	1
7	PAFZZ	ODP42	4702-19L	..FILTER ELEMENT, FLUI	1
8	XDFZZ	ODP42	4702-18L	..LEVER, CAP	1
9	PAFZZ	ODP42	P-1000-12	..PACKING, PREFORMED	1
10	PAFZZ	ODP42	4302-27	..PIN, STRAIGHT, HEADLE	1
11	PAFZZ	ODP42	4702-23L	..BRACKET, MOUNTING	1
12	PAFZZ	ODP42	PAS-2528-16	..SCREW, MACHINE	4
13	PAFFF	ODP42	VZL-2711	.BODY AND SLIDE, DIRE.....	1
14	PAFZZ	ODP42	P-1000-17	..PACKING, PREFORMED	2
15	PAFZZ	ODP42	3701-02-28B	..PLUNGER, DETENT	1
16	PAFZZ	ODP42	P-1100-17	..PACKING, PREFORMED	1
17	PAFZZ	ODP42	P-1004-02	..PACKING, PREFORMED	2
18	PAFZZ	ODP42	4702-43	..RETAINER, PACKING	1
19	PAFZZ	ODP42	4702-04	..BUSHING, SLEEVE	1
20	PAFZZ	ODP42	P-1000-25	..PACKING, PREFORMED	1
21	XDFZZ	ODP42	2711-01	..BODY	1
22	PAFZZ	ODP42	4702-33	..BUSHING, SLEEVE	1
23	PAFZZ	ODP42	P-1100-21	..PACKING, PREFORMED	2
24	PAFZZ	ODP42	SA-4702-82	..CAP, PROTECTIVE, DUST	1
25	XDFZZ	ODP42	4702-02A	..WASHER, RECESSED	1
26	XDFZZ	ODP42	4702-57	..DETENT PLATE	1
27	PAFZZ	ODP42	PAS-2528-16	..SCREW, MACHINE,	4
28	XDFZZ	ODP42	4702-58A	..PIN, SPRING.....	1
29	XDFZZ	ODP42	M-370-A	.MANIFOLD.....	1
30	PAOZZ	80205	NAS1352C8-40	SCREW, SOCKET H	2
31	XDOZZ	ODP42	22080	SCREW, MACHINE	2
32	PAFZZ	90205 N	AS1352C5-48	SCREW, CAP, SOCKET H	4
33	PFOZZ	96906	MS35338-45	WASHER, LOCK.....	4
34	PFOZZ	96906	MS51967-5	NUT, PLAIN, HEXAGON	4
35	PFOZZ	96906	MS51967-14	NUT, PLAIN, HEXAGON	2
36	PFOZZ	96906	MS35338-48	WASHER, LOCK.....	2
37	XDOFF	ODP42	20370	VALVE ASSEMBLY.....	1

END OF FIGURE

1 13 23
2 THRU 12 14 THRU 22 24 THRU 28

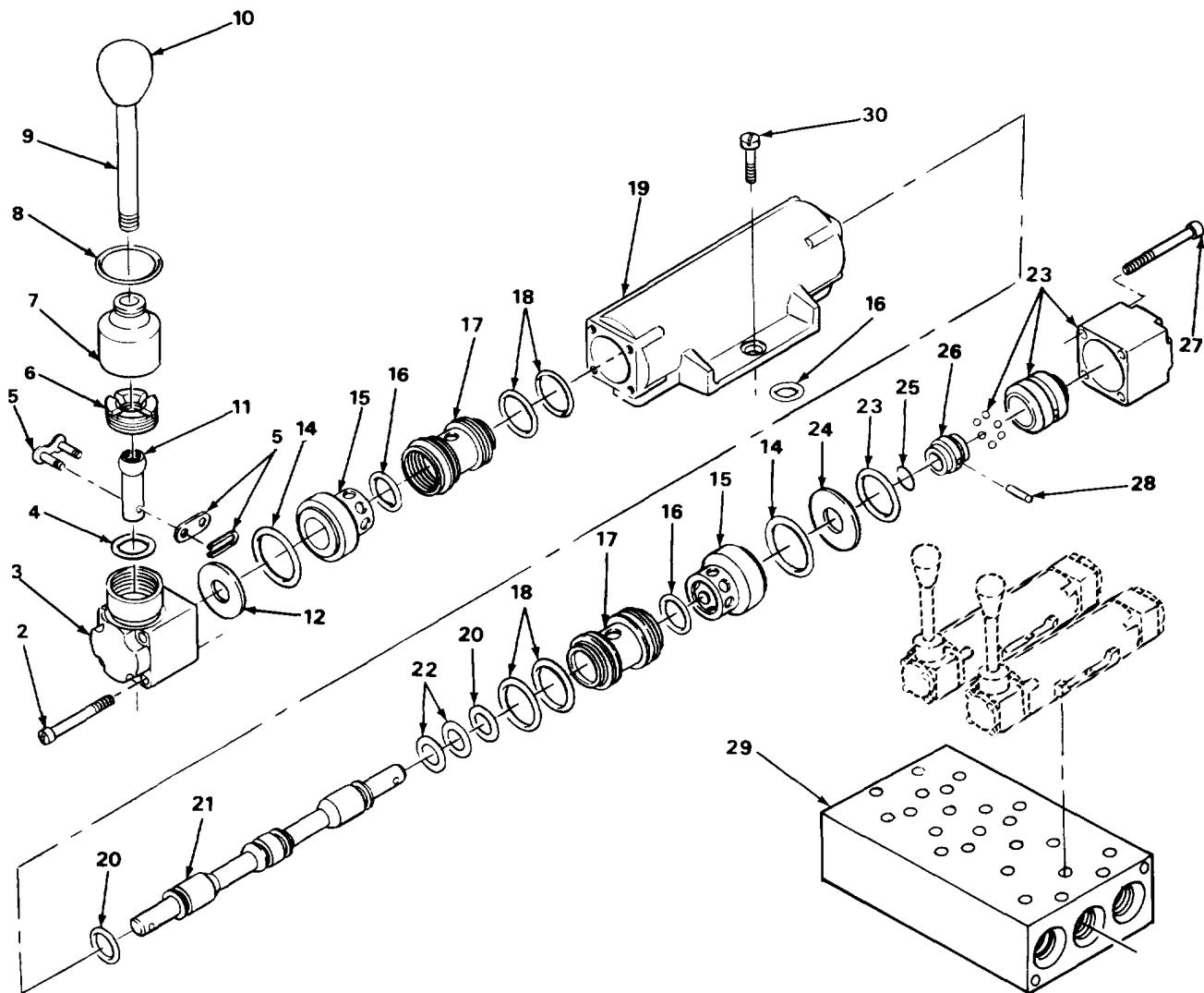


FIGURE 29. ROTATE, FD, AND AIR VALVES (RETROFIT KIT).

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5015 AIR DISCHARGE SYSTEM

FIG. 29 ROTATE, FD, AND AIR VALVES
(RETROFIT KIT)

1	PAFFF	ODP42	SA-4302-69L	.LEVER, MANUAL CONTRO	3
2	PAFZZ	ODP42	PFS-1032-24	..SCREW, MACHINE	4
3	PAFZZ	ODP42	4302-18D	..CAP, VALVE	1
4	PAFZZ	ODP42	P-1100-13	..PACKING, PREFORMED	1
5	PAFZZ	ODP42	4302-83	..WASHER, SPECIAL	1
6	PAFZZ	00P42 4	302-20D	..SCREW, CAP, SOCKET H	1
7	PAFZZ	ODP42	4302-19D	..BOOT, DUST AND MOIST	1
8	PAFZZ	ODP42	4302-220	..RING, RETAINING	1
9	XDOZZ	ODP42	4302-24D	..HANDLE	1
10	PAOZZ	ODP42	P-1001-10D	..KNOB	1
11	PAFZZ	ODP42	4302-230	..LEVER, MANUAL CONTRO	1
12	PAFZZ	ODP42	4302-02	..WASHER, SPECIAL	1
* 13	XDFFF	ODP42	VUL-4513	.BODY AND SLIDE, DIRE	1
14	PAFZZ	ODP42	P-1000-19	..PACKING, PREFORMED	2
15	PAFZZ	ODP42	4502-43	..RETAINER, PACKING	2
16	PAFZZ	ODP42	P-1100-13	..PACKING, PREFORMED	7
17	PAFZZ	ODP42	4502-04	..BUSHING, VALVE	2
18	PAFZZ	ODP42	P-1000-17	..PACKING, PREFORMED	4
19	XDFZZ	ODP42	4512-01	..BODY	1
20	PAFZZ	ODP42	P-1000-10	..PACKING, PREFORMED	2
21	PAFZZ	ODP42	4503-05	..PLUNGER, DETENT,	1
22	PAFZZ	ODP42	P-1100-10	..PACKING, PREFORMED	2
* 23	XDFFF	ODP42	SA-4302-81	..CAP, VALVE	1
24	PAFZZ	ODP42	4302-02	..WASHER, SPECIAL	1
25	PAFZZ	ODP42 43	02-87	..CLIP, RETAINING	1
26	PAFZZ	ODP42	4302-56	..DETENT PLAT	1
27	PAFZZ	ODP42	PFS-1032-20	..SCREW, MACHINE	1
28	PAFZZ	ODP42	4302-58	..PIN, STRAIGHT, HEADLE	1
29	XDFZZ	ODP42	VM453-3	.MANIFOLD,	1
30	PAOZZ	ODP42	22090	.SCREW, MACHINE	9

END OF FIGURE

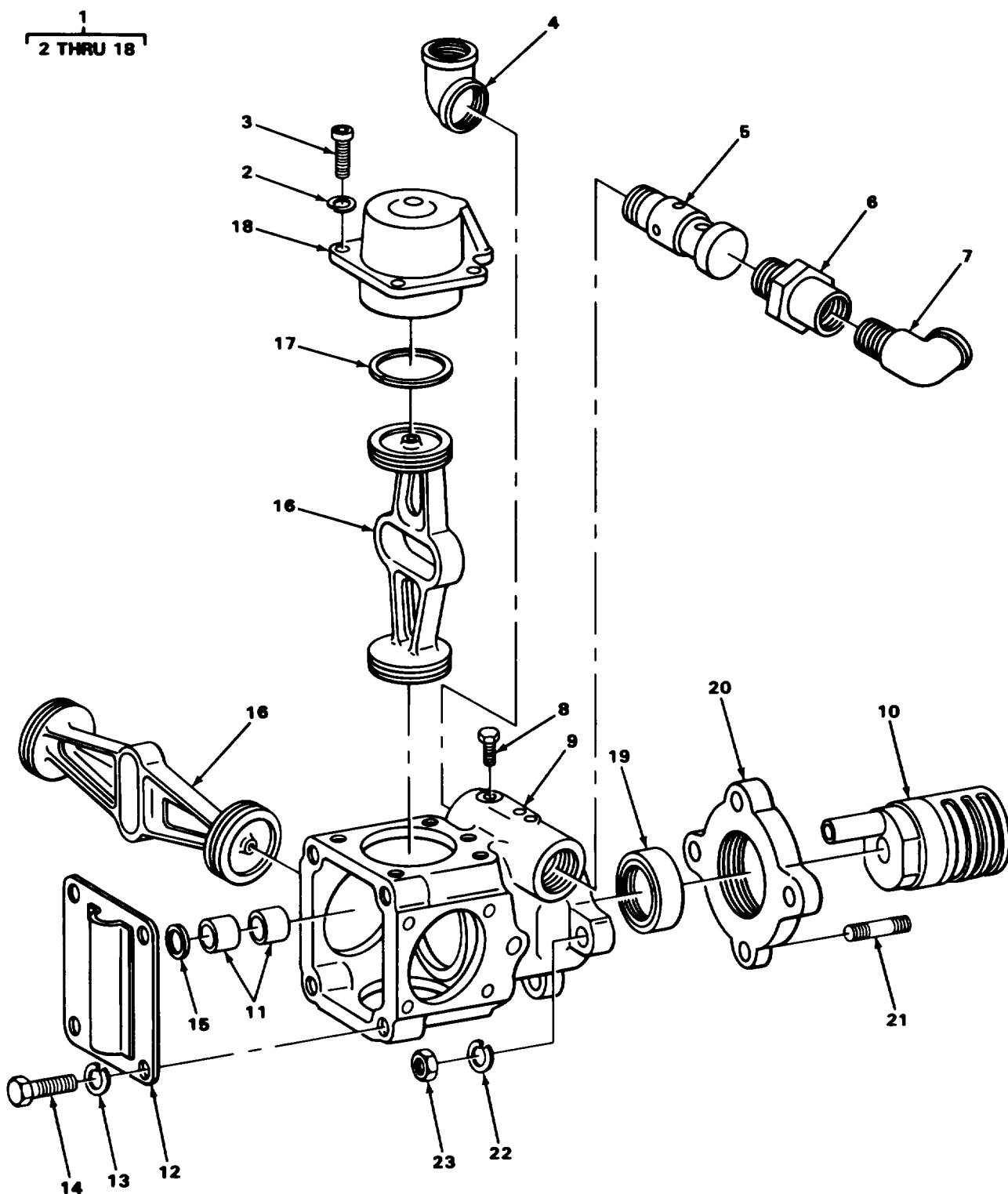


FIGURE 30. FEED MOTOR.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5019 PNEUMATIC MOTOR ASSEMBLY

FIG. 30 FEED MOTOR

1	PAFFF	89413	501015-13A	AIR MOTOR ASSEMBLY.....	1
2	PFFZZ	96906	MS35333-42	.WASHER, LOCK.....	16
3	XDFZZ	89413	902224-49	.SCREW, CAP, SOCKET HE.....	16
4	XDFZZ	89413	901023-5	.ELBOW	1
5	XDFZZ	89413	128238	.PLUG, VALVE	1
6	XDFZZ	89413	124700	.BUSHING, AIR INLET	1
7	PAFZZ	30379	141621	.ELBOW, PIPE	1
8	XDFZZ	89413	126043	.SCREW, LINE-UP.....	1
9	XAFZZ	89413	A135937	.HOUSING.....	1
10	XDFZZ	89413	3139581-123	.VALVE AND CRANKSHAFT.....	1
11	XDFZZ	89413	12367D	.ROLLER	2
12	XDFZZ	89413	A134011	.COVER, AIR MOTOR	1
13	XDFZZ	89413	900302-4	.WASHER, LOCK.....	4
14	XDFZZ	89413	900020-4	.SCREW, CAP, HEXAGON	4
15	PFFZZ	20859	XSC131	.RING, RETAINING.....	1
16	XDFZZ	89413	3139398-159	.PISTON,	2
17	XDFZZ	89413	126030	.PISTON RING	4
18	XDFZZ	89413	127100	.CYLINDER HEAD	4
19	XDFZZ	89413	940047-207	BEARING	1
20	XDFZZ	89413	1139045-3	ADAPTER	1
21	XDFZZ	89413	902772-115	STUD.....	3
22	XDFZZ	89413	900302-64	WASHER, LOCK.....	3
23	XDFZZ	89413	900160-6	NUT, PLAIN, HEXAGON	3

END OF FIGURE

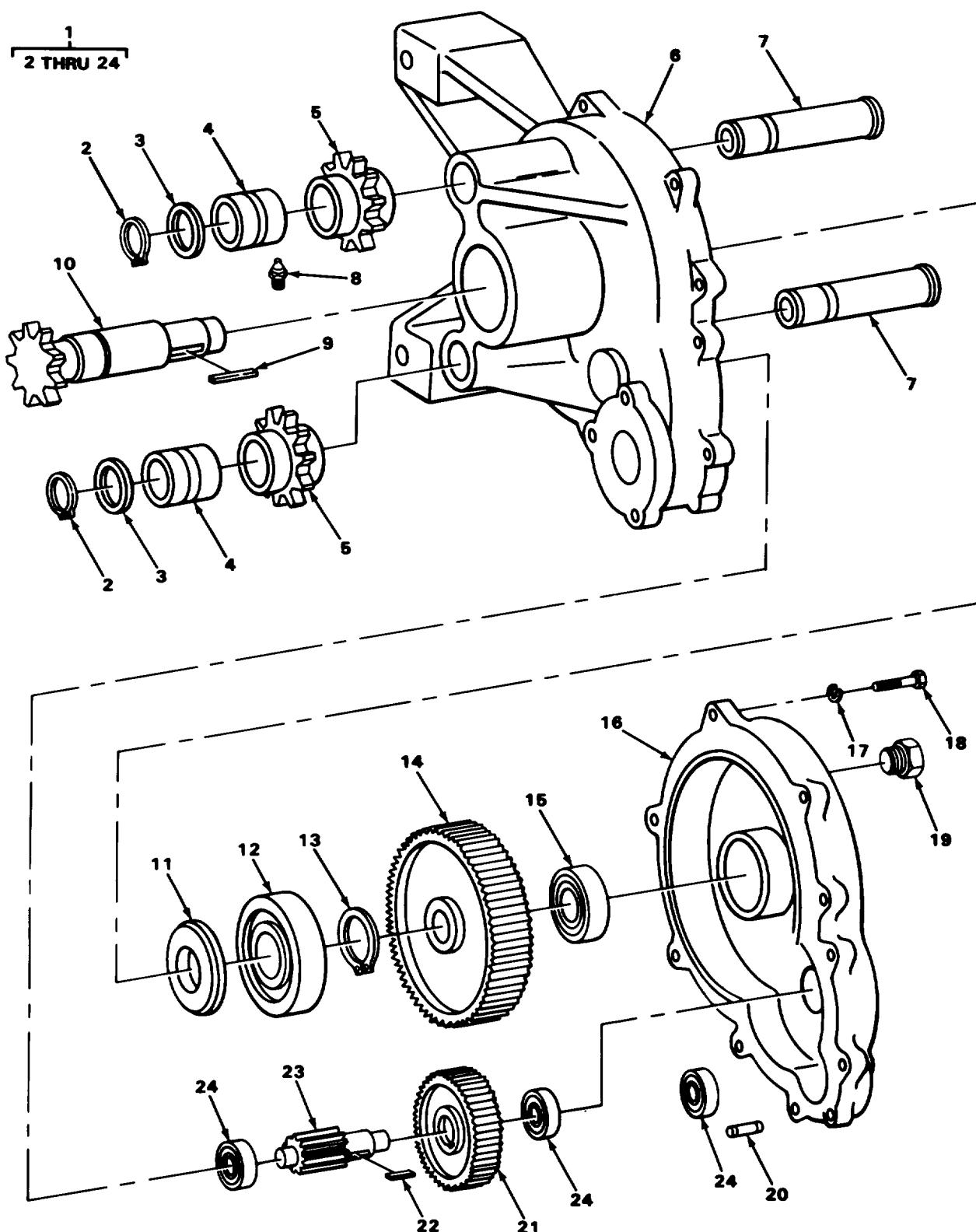


FIGURE 31. TRANSMISSION.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5019 PNEUMATIC MOTOR ASSEMBLY

FIG. 31 TRANSMISSION

1	PAFHH	89413	501005-49	TRANSMISSION, MECHAN	1
2	XDFZZ	89413	902095-150	.SNAP, RING.....	2
3	XDFZZ	89413	1139601-30	.WASHER.	2
4	XDFZZ	89413	900886-33	.BEARING, ROLLER.....	2
5	XDFZZ	89413	1139521-34	.SPROCKET, IDLER	2
6	XDFZZ	89413	3139301-51	.HOUSING.....	1
7	XDFZZ	89413	3139493-49	.SHAFT.....	2
8	PAFZZ	96906	MS15002-1	.FITTING, LUBRICATION.....	1
9	XDFZZ	89413	900970-81	.KEY	1
10	XDFZZ	89413	1139521-62	.SPROCKET, DRIVE.....	1
11	XDFZZ	89413	1139501-5	.SHIELD	1
12	XDFZZ	89413	940031-309	.BEARING BALL	1
13	XDFZZ	89413	902095-175	.SNAP RING.....	1
14	XDFZZ	89413	1139253-8	.GEAR, MAIN DRIVE	1
15	PAFZZ	89413	940016-206	.BEARING, BALL, ANNULA.....	1
16	XDFZZ	89413	1139185-42	.COVER.....	1
17	XDFZZ	89413	900302-3	.WASHER, LOCK.....	10
18	XDFZZ	89413	900020-403	.SCREW, CAP, HEXAGON	10
19	XDFZZ	89413	132865	.PLUG, VENTED	1
20	XDFZZ	89413	904584-36	.PIN, DOWEL	1
21	XDFZZ	89413	1139253-85	.GEAR SPUR	1
22	XDFZZ	89413	900970-1	.KEY	1
23	XDFZZ	89413	1139253-5	.GEAR SPUR	1
24	PFFZZ	89413	940016-203	.BEARING, BALL, ANNULA.....	3

END OF FIGURE

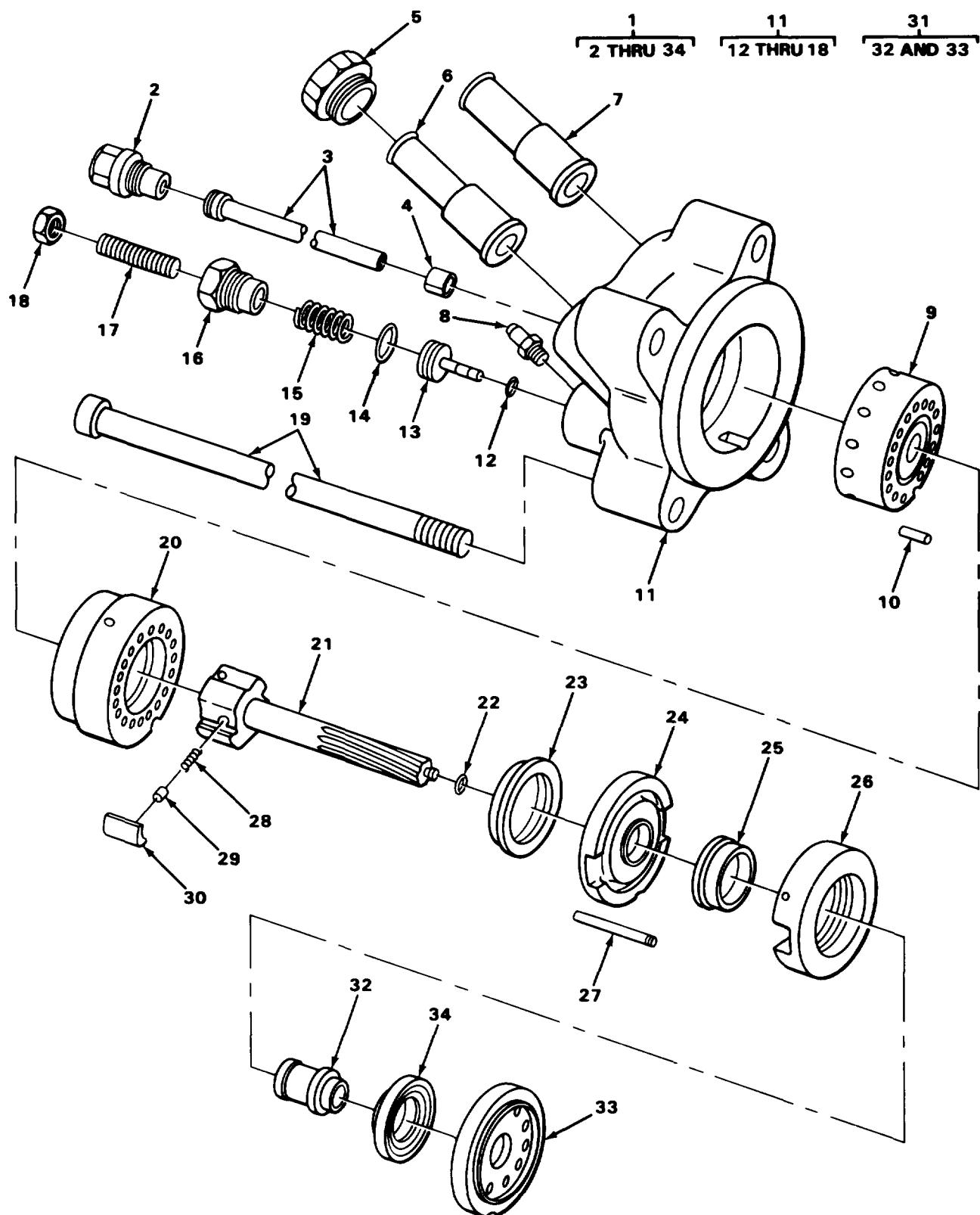


FIGURE 32. DRIFTER DRILL.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5019 PNEUMATIC MOTOR ASSEMBLY

FIG. 32 DRIFTER DRILL

1	XDFFF	89413	450ARD	DRILL, PNEUMATIC, DRI.....	1
2	XDFZZ	89413	1139027-7	.PLUG, MACHINE THREAD	1
3	XDFZZ	89413	3139025-10	.TUBE, AIR.....	1
4	XDFZZ	83179	131545	.PACKING ASSEMBLY.....	1
5	XDFZZ	89413	122550	.BUSHING	2
6	XDFZZ	89413	1139557-2	.SWIVEL, AIR AND WAT	1
7	XDFZZ	89413	1139557-1	.SWIVEL, AIR INLET	1
8	PAFZZ	96906	MS51500A8	.ADAPTER, STRAIGHT, PI.....	1
9	XDFZZ	89413	1139437-2	.RING, SUPPORT	1
10	XDFZZ	89413	132254	.PIN	2
11	XDFFF	89413	501086-1	.BACK HEAD ASSEMBLY	1
12	KFFZZ	89413	902277-15	.O RING PART OF KIT P/N 1139001-21	1
13	XDFZZ	89413	3139421-15	.PLUNGER	1
14	KFFZZ	89413	902277-3	.O RING PART OF KIT P/N 1139001-21	1
15	XDFZZ	89413	1139517-44	.SPRING.....	1
16	XDFZZ	89413	134463A	.RETAINER	1
17	XDFZZ	89413	134119	.SCREW, ADJUSTING	1
18	XDFZZ	89413	900212-5	.NUT, JAM	1
19	XDFZZ	89413	1139021-1	.BOLT, MACHINE	4
20	XDFZZ	89413	1139013-2	.RING, RATCHET	1
21	XDFZZ	83179	A135139-2	.BAR, RIFFLE.....	1
22	XDFZZ	83179	902277-11	.PACKING, PREFORMED	1
23	XDFZZ	89413	1139758-1	.RING	1
24	XDFZZ	89413	138518	.COVER, VALVE BLOCK.....	1
25	XDFZZ	89413	106530	.VALVE, OUTSIDE.....	1
26	XDFZZ	89413	138702	.BLOCK, VALVE.....	1
27	XDFZZ	89413	138703	.PIN, LOCATING	1
28	XDFZZ	32537	128220	.SPRING, HELICAL, COMP.....	4
29	XDFZZ	89413	1169601	.PLUNGER, RATCHET PAW	4
30	XDFZZ	89413	1139014-16	.PAWL, RATCHET	4
31	XDFFF	S9413	3139008-27	.VALVE SEAT ASSEMBLY	1
32	XDFZZ	89413	1139482-5	.SEAT, VALVE	1
33	XDFZZ	89413	132380	.BUSHING, SPACER	1
34	XDFZZ	89413	10652D	.VALVE, INSIDE.....	1

END OF FIGURE

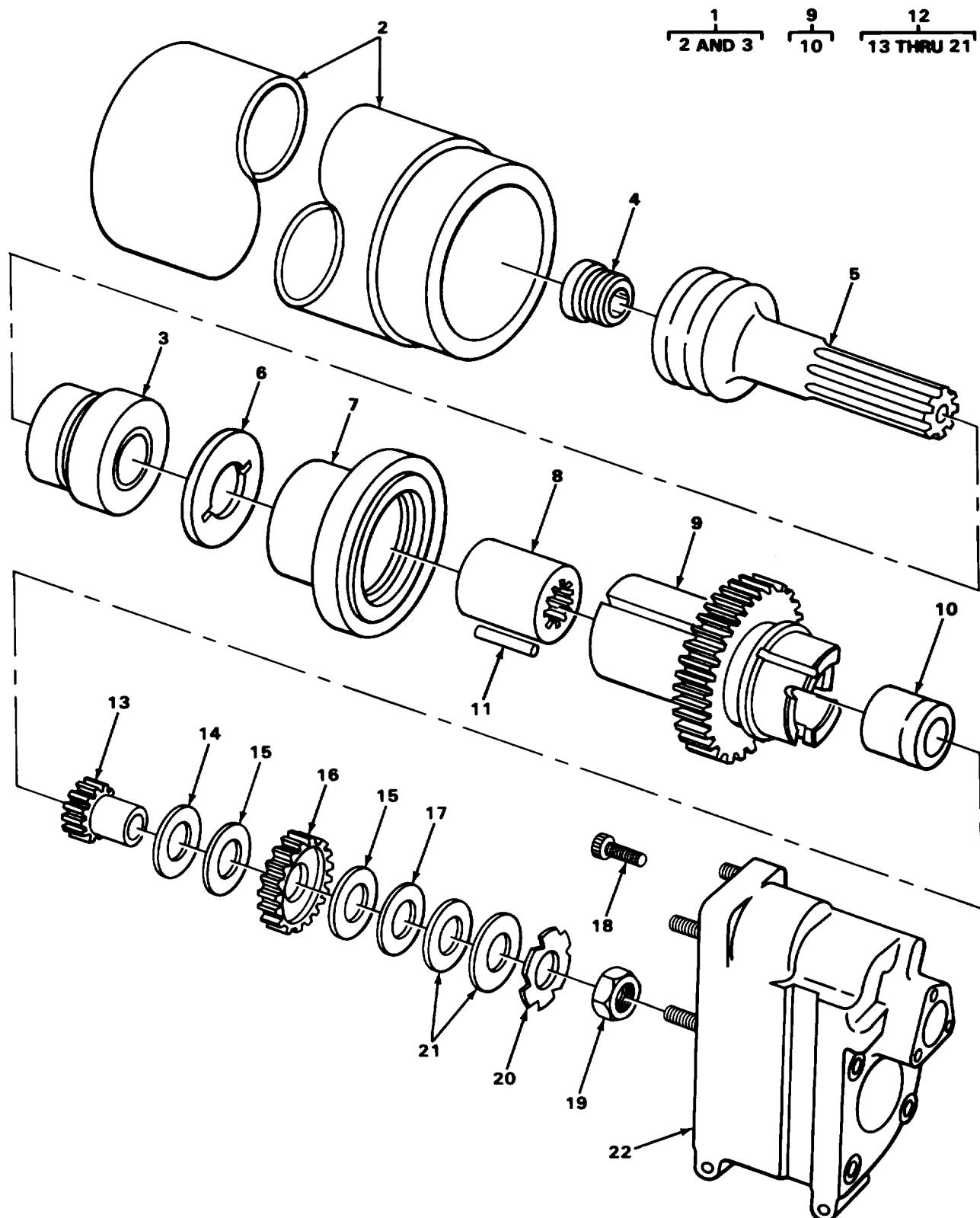


FIGURE 33. CYLINDER AND BUFFER.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5019 PNEUMATIC MOTOR ASSEMBLY

FIG. 33 CYLINDER AND BUFFER

*	1	XDFFF	89413	3139003-36	.CYLINDER AND BUFFER	1
	2	XDFFF	89413	A138210	..CYLINDER ASSEMBLY.....	1
	3	XDFZZ	89413	3139018-5	..BUFFER RING ASSEMBL,.....	1
	4	XDFZZ	89413	1139007-44	.NUT, RIFLE.....	1
	5	XDFZZ	89413	1139005-29	.PISTON	1
	6	XDFZZ	89413	1139400-87	.PLATE, THRUST	1
	7	XDFZZ	89413	1139437-148	.SPACER, SLEEVE.....	1
	8	XDFZZ	89413	11260D	.BUSHING, RETAINER.....	1
	9	XDFFF	89413	3139004-18	.CHUCK ASSEMBLY,.....	1
	10	XDFZZ	89413	1139125-365	..BUSHING, CHUCK	1
	11	XDFZZ	89413	904584-64	.PIN, LOCATING	1
	12	XDFFF	89413	501099-8	.GEAR COUNTER	1
	13	XDFZZ	89413	3139253-107	..GEAR HUB ASSEMBLY	1
	14	XDFZZ	89413	1139400-181	..PLATE, FRICTION BACK-UP	1
	15	XDFZZ	89413	1139400-160	..PLATE, FRICTION	2
	16	XDFZZ	89413	3139253-108	..GEAR, CLUTCH ASSEMBL.....	1
	17	XDFZZ	89413	1139400-159	..PLATE, FRICTION	1
	18	XDFZZ	89413	900502-45	..SCREW, CAP SOCKET HE ADJUSTING	1
	19	XDFZZ	89413	1139369-95	..NUT, LOCK	1
	20	XDFZZ	89413	1139601-69	..WASHER, LOCK,.....	1
	21	XDFZZ	89413	1139517-63	..SPRING.....	2
	22	XDFZZ	89413	1139617-25	YOKE	1

END OF FIGURE

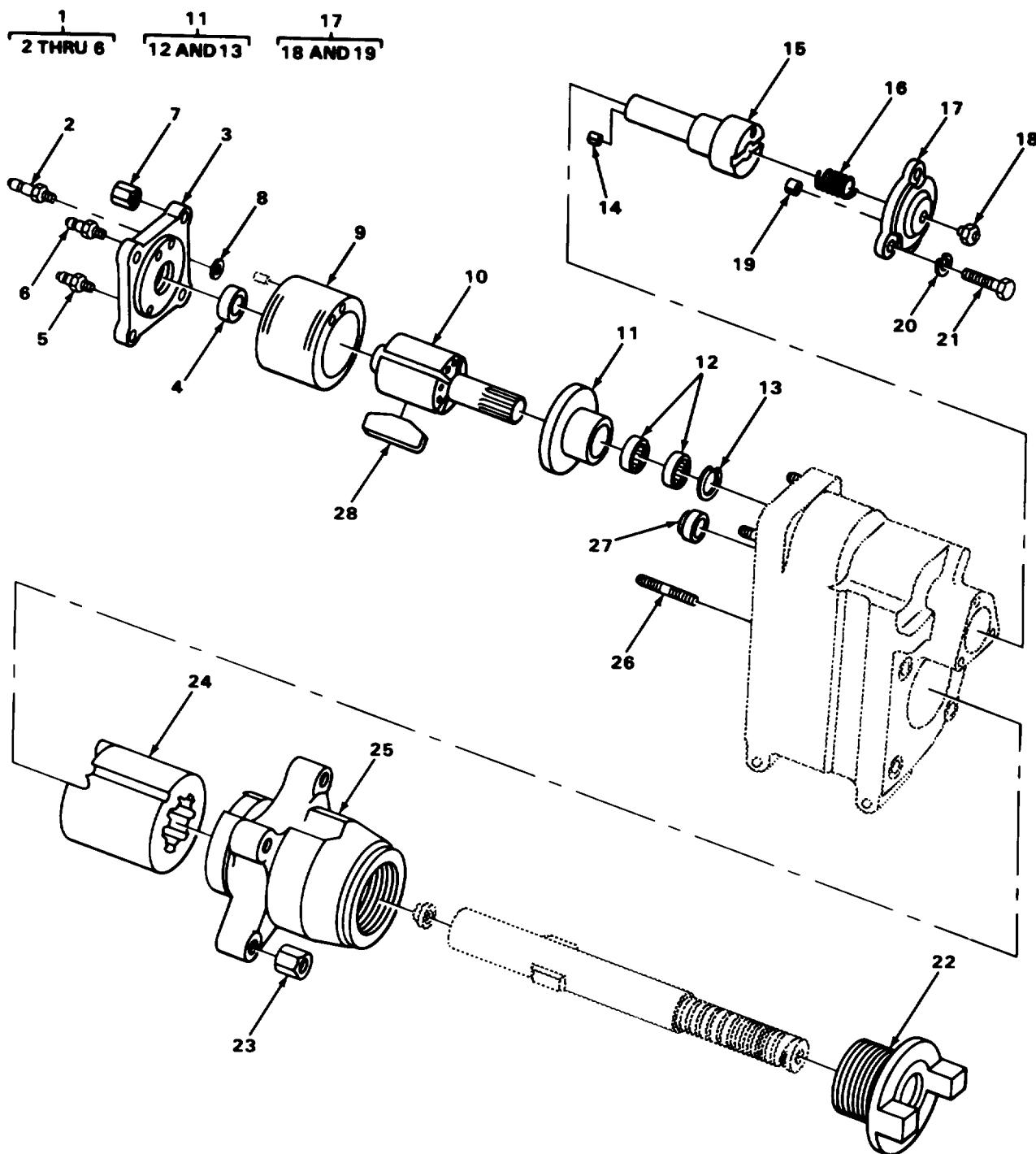


FIGURE 34. VANE MOTOR.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5019 PNEUMATIC MOTOR ASSEMBLY

FIG. 34 VANE MOTOR

1	XDFFF	89413	3139185-134	.COVER ASSEMBLY	1
2	XDFZZ	89413	1139361-14	..NIPPLE, HOSE	1
3	XDFZZ	89413	1139185-61	..COVER, MOTOR	1
4	PAFZZ	03743	M22629	..BEARING, ROLLER, ND.....	1
5	PAFZZ	96906	MS51500A8-8	..ADAPTER, STRAIGHT, PI[.....	1
6	PAFZZ	98441	0188-12-12	..ADAPTER, STRAIGHT, PI].....	1
7	XDFZZ	89413	900490-84	.NUT, SELF-LOCKING	4
8	XDFZZ	89413	1139373-36	.PACKING	1
9	XDFZZ	89413	113035-4	.STATOR.....	1
10	XDFZZ	89413	1139453-6	.ROTOR AND PINION	1
11	XDFFF	89413	3139553-181	.SUPPORT, BEARING.....	1
12	XDFZZ	89413	900906-188	..BEARING, NEEDLE.....	2
13	XDFZZ	89413	906512-137	..RING, RETAINING.....	1
14	XDFZZ	89413	904685-20	.PIN, SPRING.....	1
15	XDFZZ	89413	1139493-66	.SHAFT.....	1
16	XDFZZ	89413	138798	.SPRING.....	1
17	XDFFF	89413	3139141-56	.CAP, MOTOR	1
18	XDFZZ	89413	1139417-33	..PLUG, VENTED	1
19	XDFZZ	89413	904685-189	..PIN, SPRING.....	2
20	XDFZZ	89413	900302-62	.WASHER, LOCK.....	3
21	XDFZZ	89413	900020-409	.SCREW, CAP, HEXAGON H.....	3
22	XDFZZ	89413	1139024-60	.RETAINER	1
23	XDFZZ	89413	1139022-2	.NUT, PLAIN, HEXAGON	4
24	XDFZZ	89413	1139004-50	.CHUCK, ROTATING	1
25	XDFZZ	89413	137149	.HOUSING, CHUCK.....	1
26	XDFZZ	89413	137906	.STUD, MOTOR COVER	4
27	XDFZZ	89413	1139141-52	.CAP	1
28	XDFZZ	83179	137582	.VANE SET, ROTARY.....	1

END OF FIGURE

SECTION II

TM 5-3820-241-24P

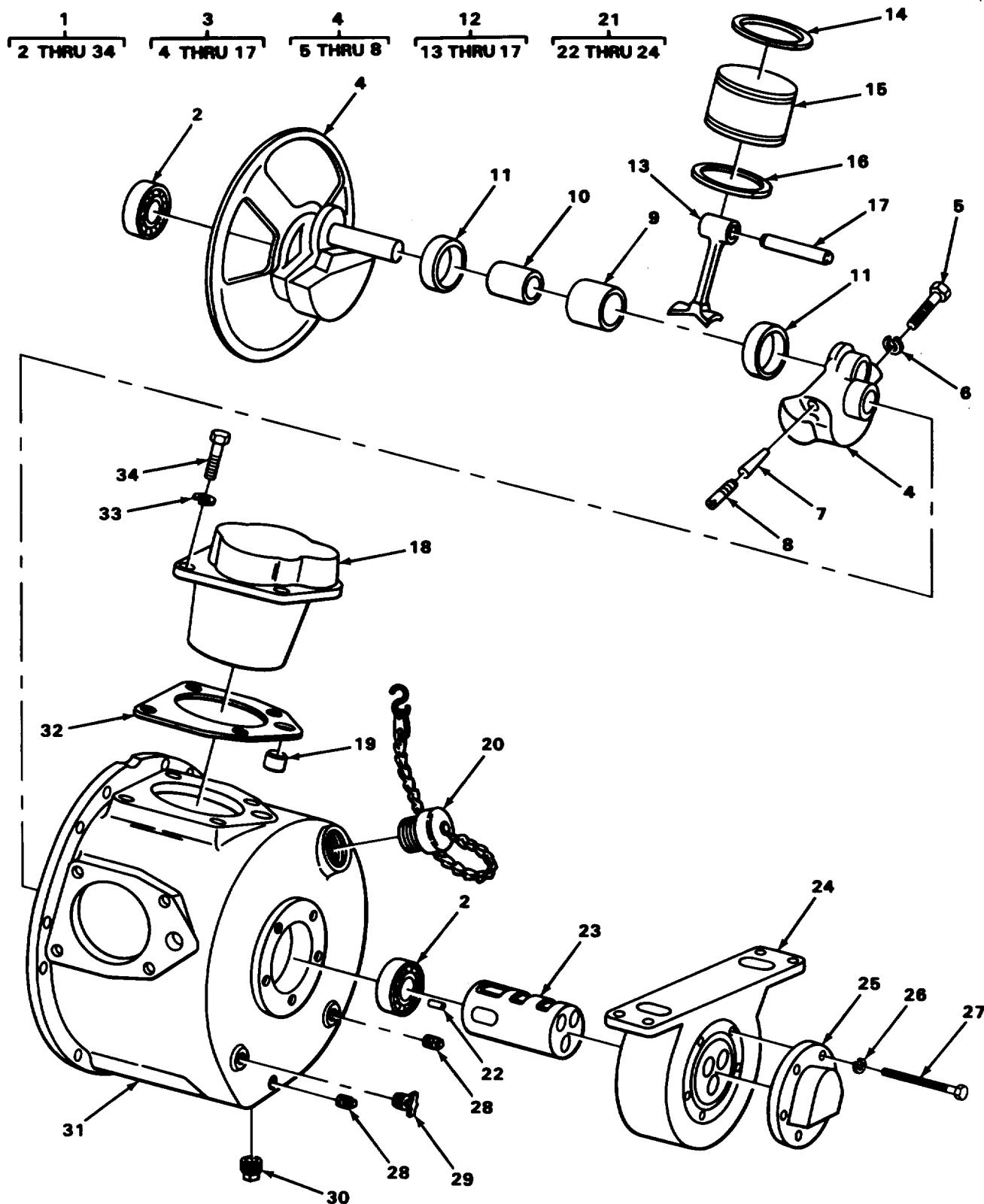


FIGURE 35. TRAMMING MOTOR.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5019 PNEUMATIC MOTOR ASSEMBLY

FIG. 35 TRAMMING MOTOR

1	PFFFF	89413	502020-60	MOTOR, PNEUMATIC, TRA	2
2	PAFZZ	35301	C181-9	.BEARING, BALL, ANNULA.....	2
3	XDFFF	89413	3157525-1	.CRANKSHAFT AND CONN.....	1
4	XDFFF	89413	A155856	..CRANKSHAFT ASSEMBLY,.....	1
5	XDFZZ	89413	900235-53	...SCREW, CAP, HEXAGON	1
6	XDFZZ	89413	900302-4	...WASHER , LOCK, , , ,	1
7	XDFZZ	89413	900583-147	...PIN, TAPER	1
8	XDFZZ	89413 9	00502-173	...SETSCREW, HEADLESS.....	1
9	XDFZZ	89413	154801	..BUSHING	1
10	XDFZZ	89413	154799	..SLEEVE	5
11	XDFZZ	89413	154800	..RING, RETAINING.....	2
12	XDFZZ	89413	315725-6	..PISTON ASSEMBLY.....	5
13	XDFZZ	89413	154803	...ROD, CONNECTING	1
14	XDFZZ	89413	155507	...RING, COMPRESSION	1
15	XDFZZ	89413	155506	...PISTON	1
16	XDFZZ	89413	155508	...RING, OIL,.....	1
17	XDFZZ	89413	A154926	...PIN, WRIST	1
18	XDFZZ	89413	1157105-8	.CYLINDER	5
19	XDFZZ	89413	155827-3	.ORIFICE, AIR.....	5
20	XDFZZ	89413	A155470	.CAP ASSEMBLY	1
21	XDFZZ	89413	3157383-3	.VALVE ASSEMBLY.....	1
22	XDFZZ	89413	904584-19	..PIN	3
23	XDFZZ	89413	A154892	..VALVE, ROTARY	1
24	XAFZZ	89413	3157383-2	..HOUSING, ROTARY VALV	1
25	XDFZZ	89413	154555	.DEFLECTOR, EXHAUST C	1
26	XDFZZ	89413	900302-3	.WASHER, LOCK.....	5
27	XDFZZ	89413	900020-123	.SCREW, CAP HEXAGON	5
28	XDFZZ	89413	901225-4	.PLUG, PIPE	2
29	XDFZZ	89413	3157524-14	.COCK	1
30	PFFZZ	83179	901204-4	.PLUG, PIPE,	1
31	XAFZZ	89413	3157175-22	.MOTOR, HOUSING	1
32	XDFZZ	89413	155825	.GASKET	5
33	XDFZZ	89413	150502	.WASHER, FLAT	20
34	XDFZZ	89413	902224-73	.SCREW, CAP, HEXAGON	20

END OF FIGURE

SECTION II

TM 5-3820-241-24P

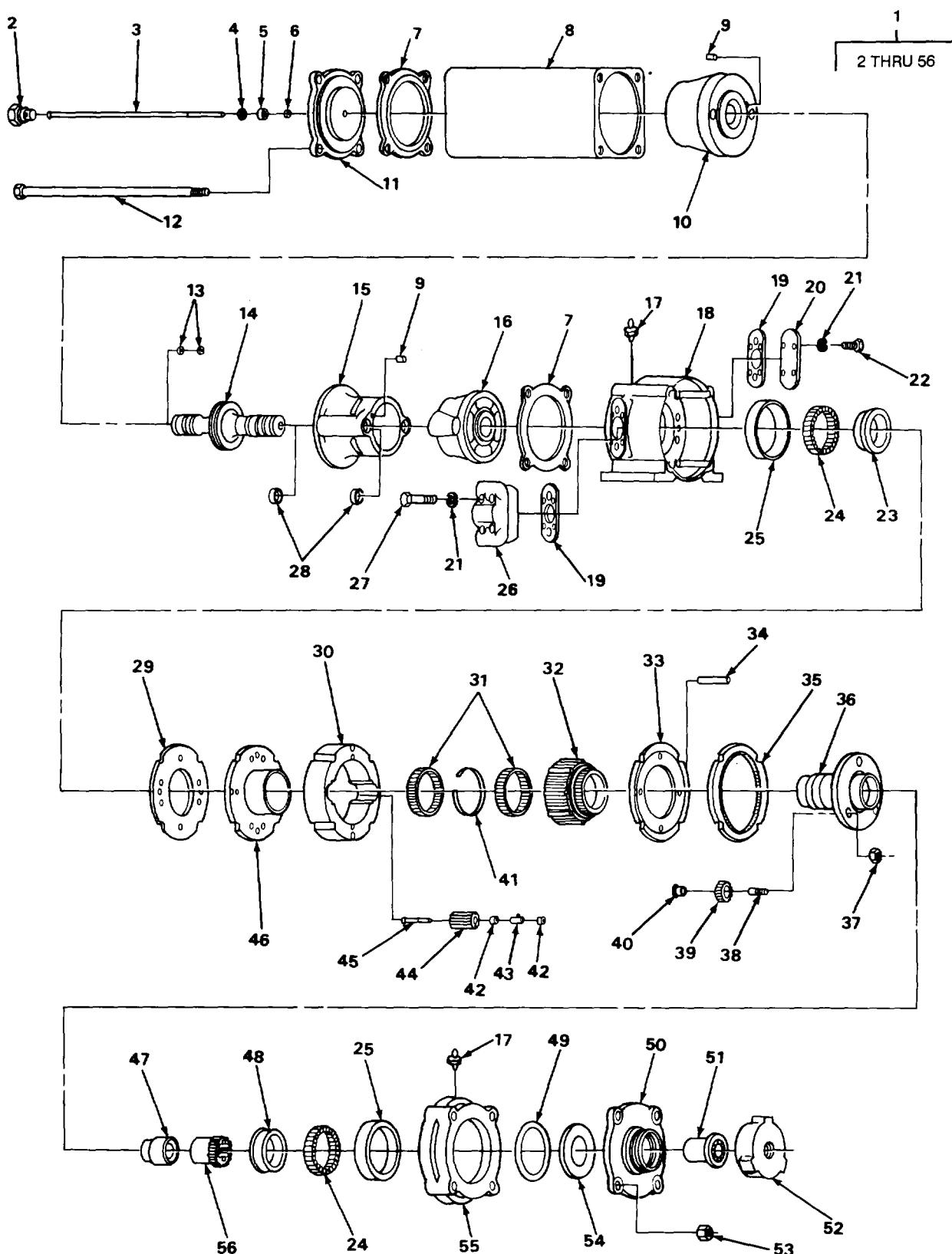


FIGURE 36. DRIFTER ASSEMBLY (RETROFIT KIT).

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC) GROUP 5019 PNEUMATIC MOTOR ASSEMBLY	(6) QTY
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FIG. 36 DRIFTER ASSEMBLY
(RETROFIT KIT)

1	PAOFF	ODP42	06296004	DRILL, PNEUMATIC, DRI.....	1
2	PAFZZ	ODP42	1139027-0019	.PLUG, MACHINE THREAD	1
3	PAFZZ	ODP42	01820008	.TUBE ASSEMBLY, METAL	1
4	PFFZO	96906	MS27183-17	.WASHER, FLAT.....	1
5	PAFZZ	ODP42	1139373-0111	.PACKING, PREFORMED	1
6	PAFZZ	ODP42	910660-0111	.PACKING, PREFORMED	1
7	PFFZZ	ODP42	1139477-0107	.SEAL, PLAIN.....	2
8	XDFZZ	ODP42	06430006	.MUFFLER	1
9	PAFZZ	ODP42	0904685-0198	.PIN, SPRING.....	2
10	XDFZZ	ODP42	06200016	.DISTRIBUTOR, UPPER	1
11	XDFZZ	ODP42	1139001-0184	.COVER, BACK.....	1
12	PFFZZ	ODP42	06570016	.ROD, THREADED END	4
13	PAFZZ	ODP42	92278-0009	.PACKING, PREFORMED-.....	2
14	PFFZZ	00P42 0	6510026	.PISTON, VALVE	1
15	XDFZZ	ODP42	06180009	.CYLINDER	1
16	XDFZZ	ODP42	06200015	.DISTRIBUTOR, LOWER	1
17	PFOZO	96906	MS15003-1	.FITTING, LUBRICATION	2
18	XDFZZ	ODP42	01320007	.HOUSING.....	1
19	PAFZZ	ODP42	1139241-0139	.GASKET	2
20	XDFZZ	ODP42	1139400-0338	.COVER.....	1
21	PFFZZ	96906	MS35338-48	.WASHER, LOCK.....	8
22	PFFZZ	96906	MS90728-111	.SCREW, CAP, HEXAGON H	4
23	PAFZZ	ODP42	1139775-0029	.CONE, TAPERED ROLLER	1
24	PAFZZ	ODP42	3139449-0084	.ROLLER, BEARING	2
25	PAFZZ	ODP42	0960023-0001	.CUP, TAPERED ROLLER	2
26	XDFZZ	ODP42	1139353-0065	.MANIFOLD	1
27	PFFZZ	96906	MS90728-119	.SCREW, CAP, HEXAGON H	4
28	PAFZZ	ODP42	06470008	.PACKING, PREFORMED	4
29	XDFZZ	ODP42	1139400-0340	.PLATE	1
30	XDFZZ	ODP42	1139305-0019	.HOUSING	1
31	PAFZZ	ODP42	900906-393	.BEARING, ROLLER, NEED.....	2
32	XDFZZ	00P42 1	139253-0208	.GEAR	1
33	XDFZZ	ODP42	1139400-0541	.PLAT	1
34	XDFZZ	ODP42	0904581-0091	.PIN, DOWEL	2
35	XDFZZ	ODP42	1139253-0212	.GEAR	1
36	XDFZZ	ODP42	3139145-0032	.CARRIER ASSEMBLY	1
37	XDFZZ	ODP42	1139369-0153	.NUT	1
38	PFFZZ	ODP42	1139493-0194	.SHAFT, SHOULDERED	1
39	PFFZZ	00P42 3	139253-0427	.GEAR, SPUR	3
40	PAFZZ	ODP42	1139509-0116	.BUSHING, SLEEVE	3
41	XDFZZ	ODP42	1139437-0230	.SPACER	1
42	PAFZZ	60380	J68	.BEARING, ROLLER, NEED.....	4
43	PFFZZ	ODP42	1139125-0376	.BUSHING, SLEEVE	2
44	PFFZZ	ODP42	1139253-0209	.GEAR, SPUR	2
45	XDFZZ	ODP42	1139493-0157	.SHAFT	2
46	XDFZZ	ODP42	1139235-0037	.FLANGE	1
47	PAFZZ	00P42 1	139125-0379	.BUSHING, SLEEVE	1

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5)	(6) QTY
			DESCRIPTION AND USABLE ON CODES (UOC)		
48	PAFZZ	ODP42	1139775-0030	.CONE, TAPERED ROLLER ,	1
49	PAFZZ	ODP42	1139024-0088	.RETAINER, OIL SEAL,	1
50	XDFZZ	ODP42	1139185-0277	.COVER,.....	1
51	PFFZZ	ODP42	1139125-0445	.BUSHING, SLEEVE USED WITH 1-1/4	1
				INCH DRILL ROD	
51	PFFZZ	ODP42	3139125-0520	.BUSHING, HALF, SLEEVE USED WITH 1-1/	1
				2 INCH DRILL ROD	
52	XDFZZ	ODP42	1139141-0260	.CAP	1
53	PAFZZ	ODP42	0903535-1216	.NUT, SELF-LOCKING CA	4
54	PFFZZ	ODP42	2 1139517-0188	.WASHER, CONCAVE.....	1
55	XDFZZ	ODP42	1139185-0278	.COVER,.....	1
56	PAFZZ	ODP42	1139004-0078	.CHUCK, QUICK CHANGE.....	1

END OF FIGURE

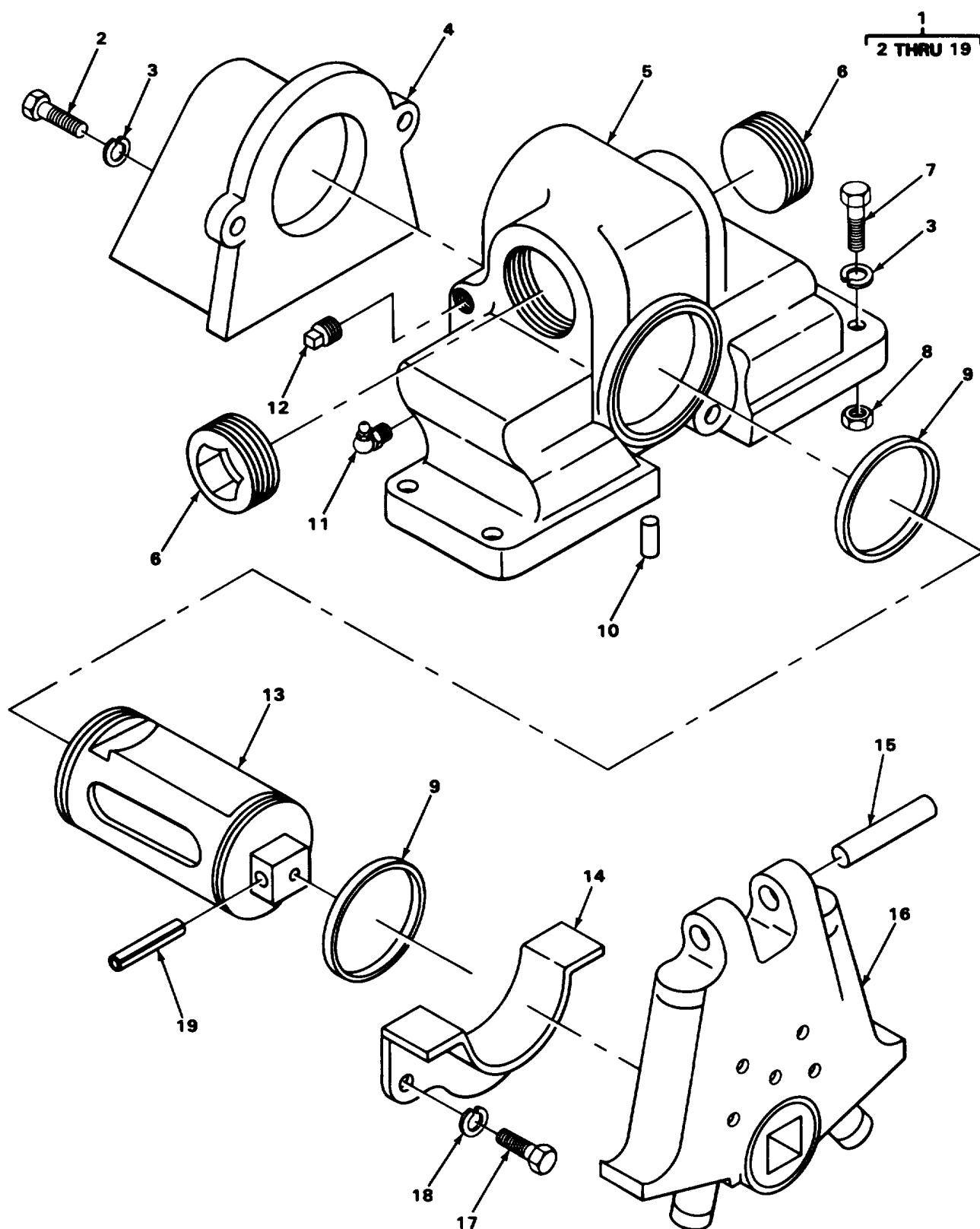


FIGURE 37. THROTTLE VALVE ASSEMBLY.

SECTION II

TM 5-3820-241-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 5020 GOVERNOR

FIG. 37 THROTTLE VALVE ASSEMBLY

1	XDFFF	89413	502002-63	VALVE, THROTTLE ASSEMBLY	2
2	PFFZZ	80204	81821BH038CO75N	.SCREW, CAP, HEXAGON H HEAD, PLATE MTG	2
3	XDFZZ	89413	900302-3	.WASHER, LOCK VALVE MTG	6
4	XDFZZ	89413	155812	.PLATE, COVER	1
5	XDFZZ	89413	A155798A	.BODY, VALVE.....	1
6	XDFZZ	89413	901220-7	.PLUG, PIPE VALVE BODY	2
7	XDFZZ	89413	900020-23	.SCREW CAP, HEXAGON HEAD VALVE MTG	4
8	PFFZZ	96906	MS51967-8	.NUT, PLAIN, HEXAGON VALVE MTG	4
9	XDFZZ	89413	155806	.RING, PISTON VALVE	2
10	XDFZZ	89413	155799	.PIN	1
11	PAFZZ	96906	MS15003-4	.FITTING, LUBRICATION	1
12	XDFZZ	89413	901204-3	.PLUG, PIPE VALVE BODY	1
13	XDFZZ	89413	155805	.VALVE, THROTTLE	1
14	XDFZZ	89413	155807A	.BRACKET, AIR VALVE MTG	1
15	XDFZZ	89413	155608	.PIN, STRAIGHT, HEADLESS, HANDLE TO VALVE	1
16	XDFZZ	89413	502049-9	.HANDLE, VALVE	1
17	PFFZZ	96906	MS35307-332	.BOLT, MACHINE HEAD, BRACKET MTG	2
18	XDFZZ	89413	900302-59	.WASHER, LOCK BRACKET MTG	2
19	PAFZZ	96906		.MS16562-66.....PIN, SPRING VALVE	1

END OF FIGURE

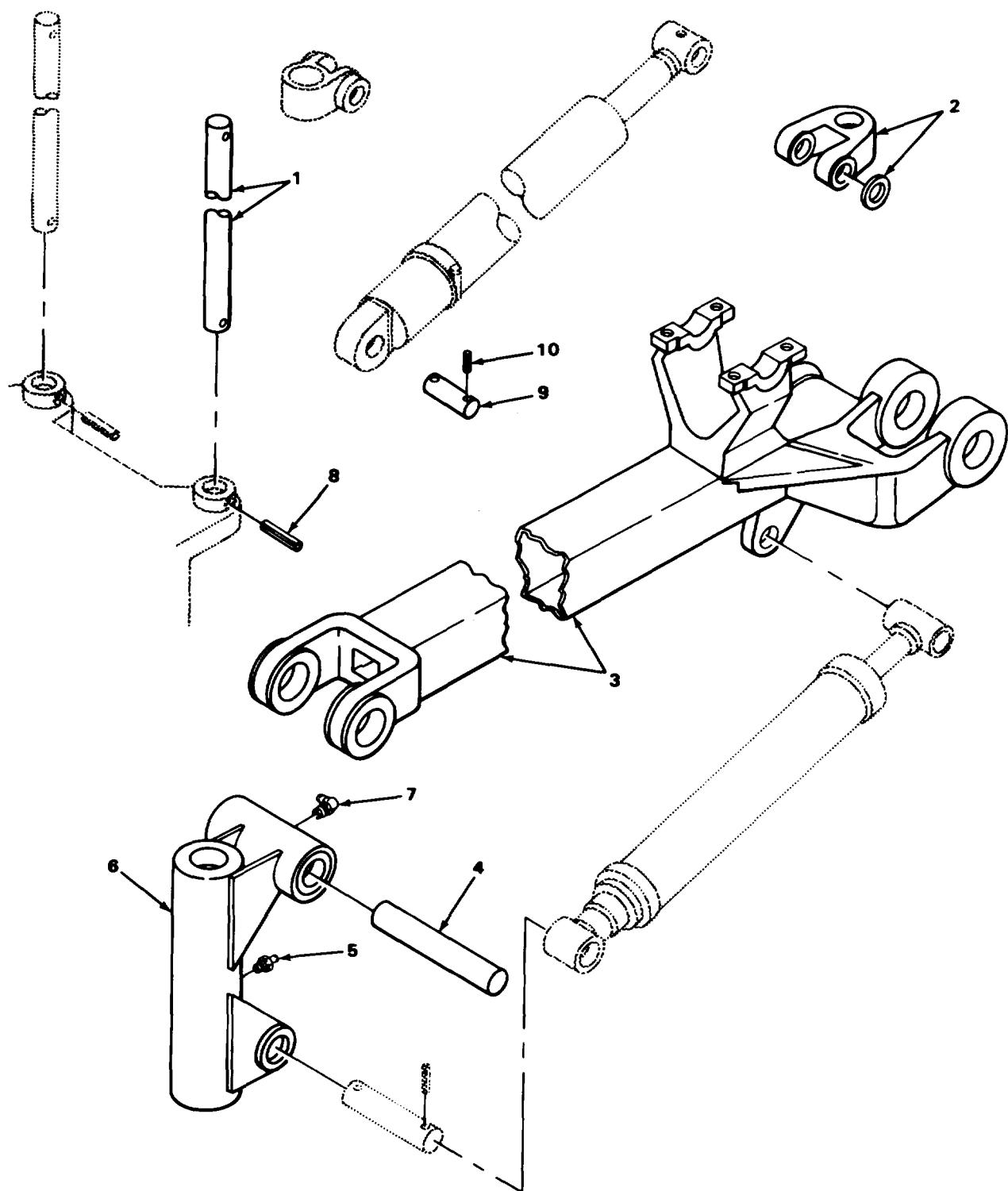


FIGURE 38. BOOM AND ATTACHING PARTS.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 73 CONCRETE AND ASPHALT EQUIPMENT COMPONENTS					
GROUP 7320 BOOM AND ATTACHING PARTS					
FIG. 38 BOOM AND ATTACHING PARTS					
1	XDFZZ	89413	1139393-140	PIN, PIVOT.....	1
2	XDFZZ	89413	3139573-7	UNIVERSAL BOOM TO FD TILT.....	1
				CYLINDER	
3	XDFZZ	89413	3139093-102	BOOM RIGHT HAND	1
4	XDFZZ	89413	1139493-124	SHAFT, PIVOT.....	1
5	PAOZZ	96906	MS15003-5	FITTING, LUBRICATION	1
6	XDFZZ	89413	3139553-256	SUPPORT, PIVOT BOOM	1
7	PAOZZ	96906	MS15003-1	FITTING, LUBRICATION	1
8	XDFZZ	89413	904685-160	PIN, SPRING.....	2
9	XDFZZ	89413	1139393-104	PIN, PIVOT.....	1
10	XDFZZ	89413	904685-144	PIN, SPRING.....	2

END OF FIGURE

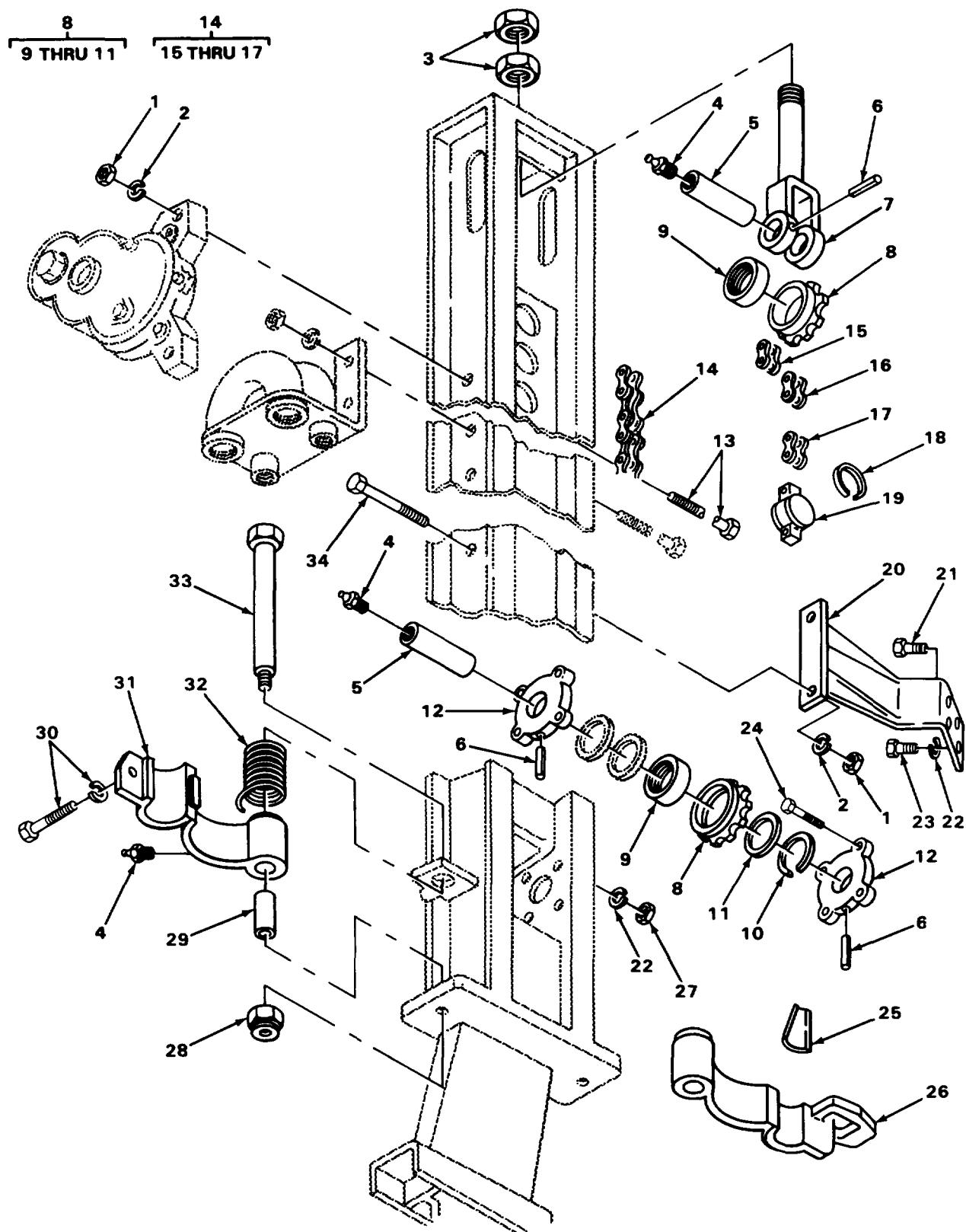


FIGURE 39. CHAIN, GUIDE AND RELATED PARTS.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 74 CRANES, SHOVELS AND EARTH MOVING EQUIPMENT COMPONENTS					
GROUP 7476 FEED AND LEVELING					
FIG. 39 CHAIN, GUIDE AND RELATED PARTS					
1	XDFZZ	89413	900160-7	NUT, PLAIN, HEXAGON MOTOR MTG	4
2	XDFZZ	89413	900302-6	WASHER, LOCK MOTOR MTG	4
3	XDFZZ	89413	900160-9	NUT, PLAIN, HEXAGON	2
4	PAFZZ	96906	MS15003-1	FITTING, LUBRICATION	3
5	XDFZZ	89413	1139389-164	PIN	1
6	XDFZZ	89413	904685-152	PIN, SPRING.....	3
7	XDFZZ	89413	3139617-60	YOKE	1
8	XDFFF	89413	3139521-55	SPROCKET ASSEMBLY	2
9	PAFZZ	59690	P18244	.BEARING, ROLLER, CYLI.....	1
10	PAFZZ	96906	MS16624-4059	.RING, RETAINING SNAP	1
12	XDFZZ	89413	1139125-314	BUSHING	2
13	XDFZZ	89413	900054-560	SCREW, CAP, HEXAGON H MOTOR MTG	2
14	XDFFF	89413	A13858-397	CHAIN ASSEMBLY FEED	1
15	XDFZZ	89413	1139345-21	.LINK, CONNECTING FEED CHAIN	V
16	XDFZZ	89413	1139345-18	.LINK ROLLER CHAIN.....	V
11	XDFZZ	89413	1139345-44	.LINK, OFF-SET CHAIN.....	1
18	XDFZZ	89413	902095-250	RING, SNAP.....	1
19	XDFZZ	89413	1139177-59	CONNECTOR	1
20	XDFZZ	89413	3139105-539	BRACKET, DOUBLE ANGL.....	1
21	XDFZZ	89413	900020-24	SCREW, HEXAGON HEAD, RAM VALVE MTG	2
22	XDFZZ	89413	900302-4	WASHER, LOCK.....	8
23	XDFZZ	89413	900020-84	SCREW, CAP, HEXAGON HEAD, RAM VALVE	2
				MOTOR MTG	
24	PFFZZ	96906	MS90728-113	SCREW, CAP, HEXAGON H HEAD	8
25	XDFZZ	89413	1139125-266	BUSHING HALF, SLEEVE.....	2
26	XDFZZ	89413	1139149-70	CENTRALIZER, HALF	1
27	XDFZZ	89413	900160-5	NUT, PLAIN, HEXAGON	4
28	XDFZZ	89413	903540-26	NUT, SELF-LOCKING, HE CENTRALIZER	2
29	XDFZZ	89413	113125-265	BUSHING	2
30	XDFZZ	89413	900020-25	SCREW, CAP, HEXAGON HEAD, CENTRALIZER ... ARM	2
31	XDFZZ	89413	1139149-69	CENTRALIZER, HALF	1
32	XDFZZ	39413	1139517-8	SPRING, HELICAL COMP.....	1
32	XDFZZ	89413	1139517-9	SPRING.....	1
33	XDFZZ	89413	900057-562	BOLT, MACHINE CENTRALIZER ARM	2
34	XDFZZ	96906	MS35301-201	SCREW, CAP, HEXAGON HEAD, BRACKET MTG ..	2

END OF FIGURE

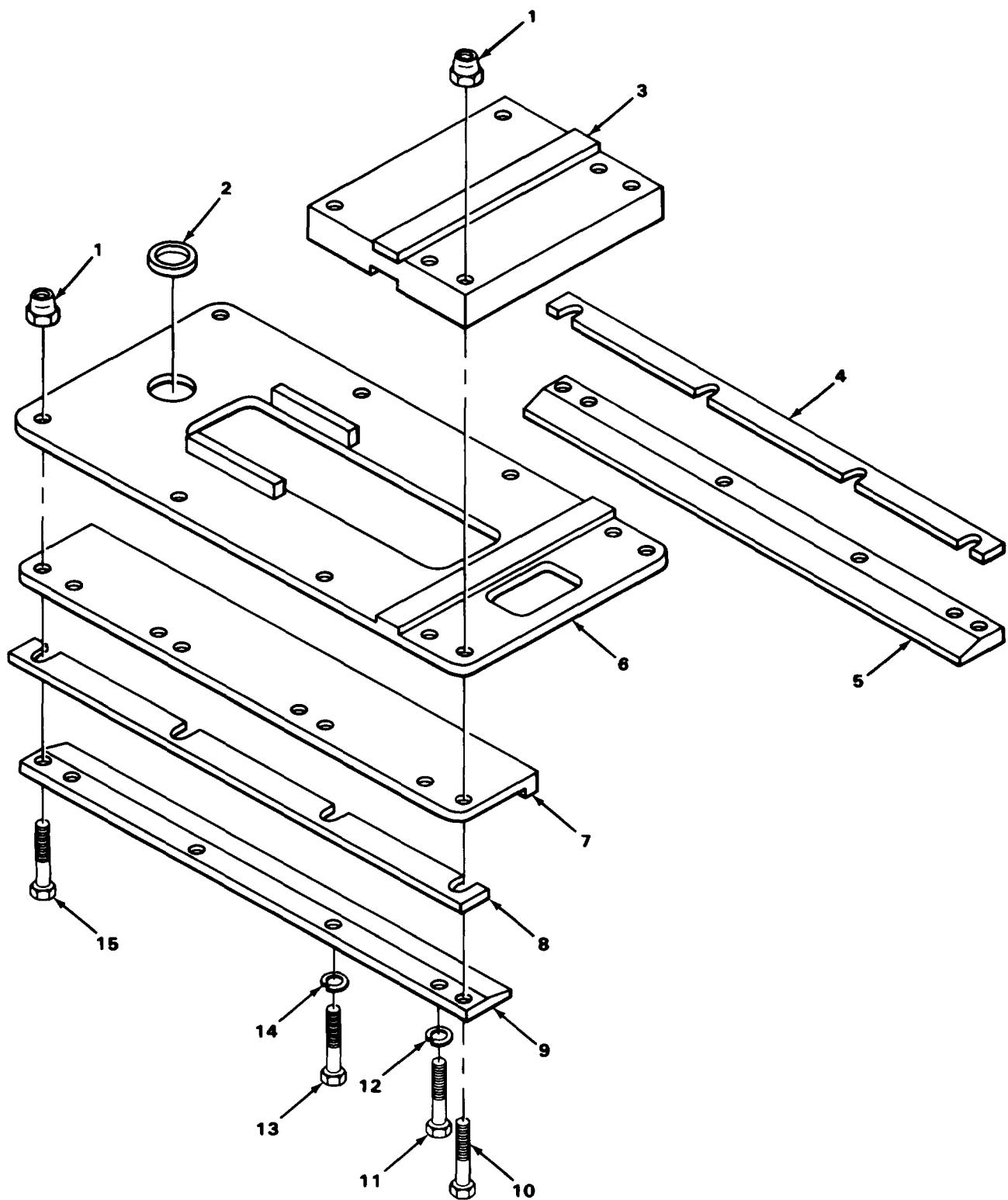


FIGURE 40. CRADLE.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7476 PNEUMATIC MOTOR ASSEMBLY

FIG. 40 CRADLE

1	XDFZZ	89413	900490-19	NUT, SELF-LOCKING, HE	8
2	XDFZZ	89413	1139125-150	BUSHING CRADLE	1
3	XDFZZ	89413	3139513-319	SPACER.....	1
4	XDFZZ	89413	1139513-173	SPACER, PLATE	1
5	XDFZZ	89413	1139265-71	GI.....	2
6	XDFZZ	89413	3139189-33	CRADLE	1
7	XDFZZ	89413	3139400-90	WEAR PLATE	2
8	XDFZZ	89413	1139505-26	SPACER, PLATE	20
9	XDFZZ	89413	3139265-70	GIB	1
10	XDFZZ	89413	90020-157	SCREW, CAP, HEXAGON H.....	2
11	XDFZZ	89413	1139473-13	SCREW, CAP, HEXAGON H.....	3
12	XDFZZ	89413	900597-13	WASHER, LOCK.....	3
13	XDFZZ	89413	1139473-14	SCREW, CAP, HEXAGON H.....	1
14	XDFZZ	89413	900597-14	WASHER, LOCK.....	1
15	XDFZZ	89413	900020-97	SCREW, CAP, HEXAGON H.....	6

END OF FIGURE

40-1

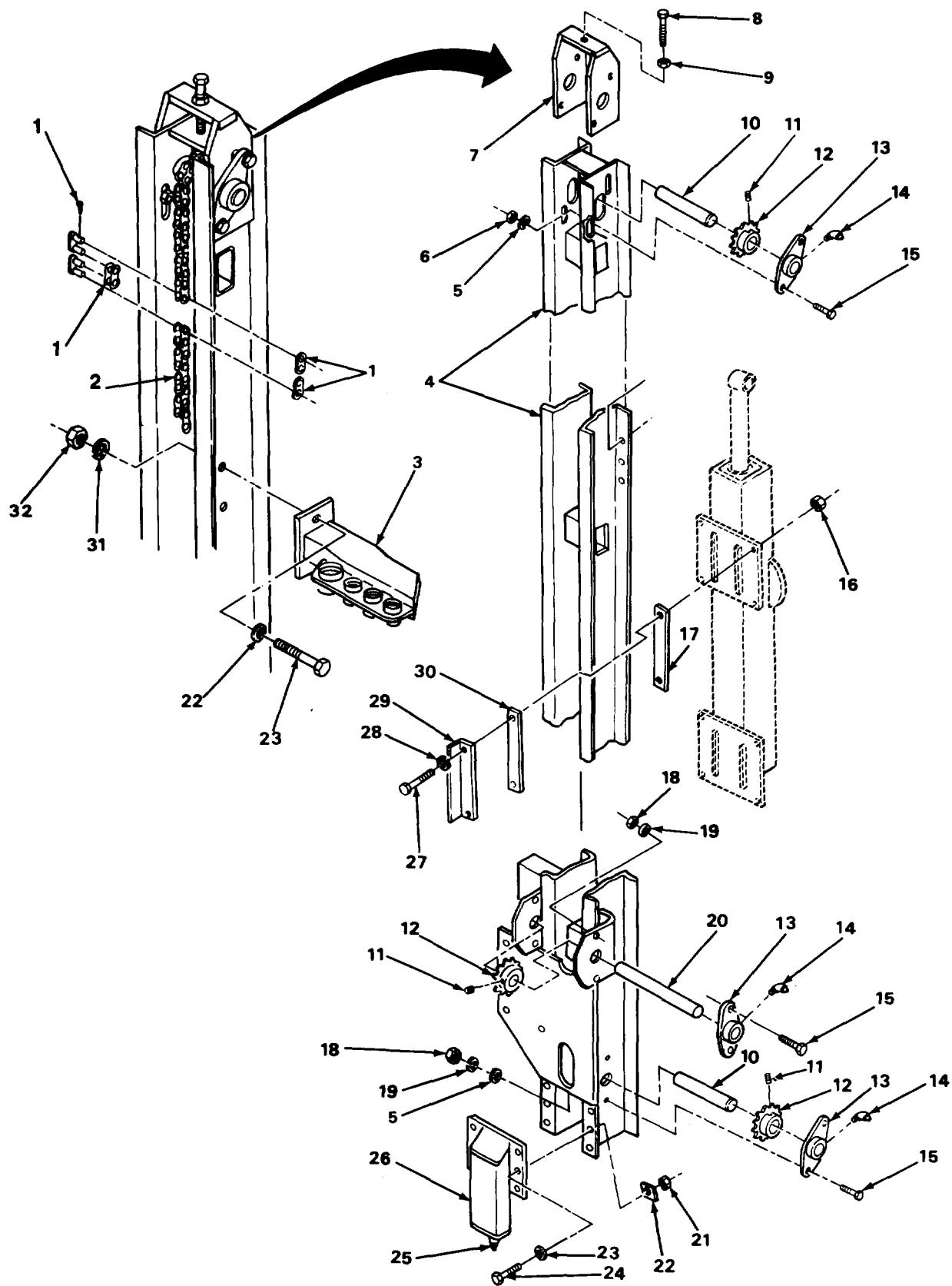


FIGURE 41. FEEDSHELL, CHAIN, MOUNTING BRACKETS, AND RELATED PARTS (RETROFIT KIT).

SECTION II

TM 5-3820-241-24P C01

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7476 FEED AND LEVELING

FIG. 41 FEEDSHELL, CHAIN, MOUNTING
BRACKETS, AND RELATED PARTS
(RETROFIT KIT)

1	PAOZZ	ODP42	20140	LINK, CHAIN, DETACHAB.....	4
2	PAOZZ	ODP42	20150	CHAIN, ROLLER.....	1
3	XDOZZ	ODP42	20310	BRACKET, HOSE	1
4	XDOZZ	ODP42	20110	FEEDSHELL ASSEMBLY.....	1
5	PAOZZ	96906	MS27183-17	WASHER, FLAT,.....	8
6	PFOZZ	96906	MS51922-33	NUT, SELF-LOCKING, HE	4
7	PAOZZ	ODP42	20230	BRACKET, DOUBLE ANGL.....	1
8	PFOZZ	96906	MS90728-193	SCREW, CAP, HEXAGON H.....	1
9	PAOZZ	96906	MS35691-57	NUT , PLAIN, HEXAGON	1
10	PAOZZ	ODP42	20170	SHAFT, STRAIGHT	2
11	PAOZZ	96906	MS51963-137	SETSCREW	3
12	PAOZZ	ODP42	20180	SPROCKET WHEEL.....	3
13	PAOOO	ODP42	20160	BUSHING, SLEEVE	6
14	PAOZZ	96906	MS15003-6	FITTING, LUBRICATION	1
15	PFOZZ	96906	MS90728-115	SCREW, CAP, HEXAGON H.....	12
16	XDOZZ	89413	900160-6	NUT, PLAIN, HEXAGON	8
17	PAOZZ	ODP42	20340	SHIM 0.1875 INCHES.....	4
18	PFOZZ	96906	MS51967-14	NUT, PLAIN, HEXAGON	8
19	PFOZZ	96906	MS35338-48	WASHER, LOCK.....	8
20	PAOZZ	ODP42	20500	SHAFT, STRAIGHT	1
21	PFOZZ	96906	MS51922-49	NUT, SELF-LOCKING, HE	6
22	PAOZZ	90598	MAL90356-5	WASHER, BEVEL	6
23	PFOZZ	96906	MS27183-21	WASHER, FLAT	8
24	PFOZZ	96906	MS90728-164	SCREW, CAP, HEXAGON H.....	8
25	XDOZZ	ODP42	20490	POINT, CARBIDE	1
26	XDOZZ	ODP42	20480	FOOT, POINT	1
27	XDFZZ	89413	900020-45	SCREW, CAP, HEXAGON	8
28	XDFZZ	89413	900302-64	WASHER, LOCK.....	8
29	XDOZZ	ODP42	20360	BAR, FEEDSHELL.....	4
30	PAOZZ	ODP42	20350	SHIM 0.065 INCHES.....	4
31	PFOZZ	96906	MS35338-50	WASHER, LOCK.....	2
32	PFOZZ	96906	MS51967-20	NUT, PLAIN, HEXAGON	2

END OF FIGURE

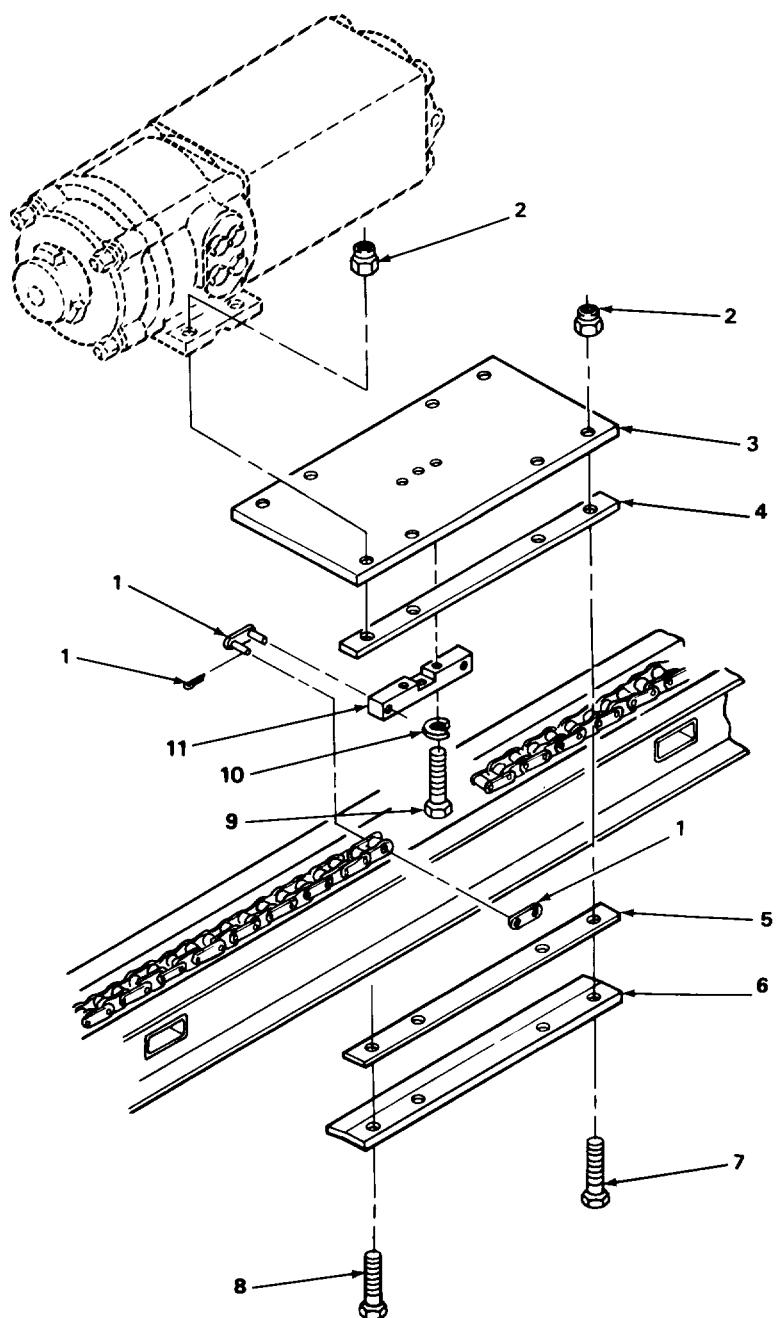


FIGURE 42. SLABBACK AND RELATED PARTS (RETROFIT KIT).

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7476 FEED AND LEVELING

FIG. 42 SLABBACK AND RELATED PARTS
(RETROFIT KIT)

1	PAOZZ	ODP42	20140	LINK, CHAIN, DETACHAB.....	2
2	PFOZZ	96906	MS51943-45	NUT, SELF-LOCKING, HE,	8
3	XDOZZ	ODP42	20020	SLABBACK	1
4	PAOZZ	ODP42	20060	SHIM	2
5	PAOZZ	ODP42	20070	SMIM	2
6	PAOZZ	ODP42	20080	SLIDING BLOCK, T-SLO	2
7	PFOZZ	96906	MS90728-189	SCREW, CAP, HEXAGON H.....	4
8	PFOZZ	96906	MS90728-191	SCREW, CAP, HEXAGON H.....	4
9	PFOZZ	96906	MS90728-66	SCREW, CAP, HEXAGON H.....	3
10	PFOZZ	96906	MS35338-46	WASHER, LOCK.....	3
11	PAOZZ	ODP42	20030	CHAIN, BLOCK	1

END OF FIGURE

42-1

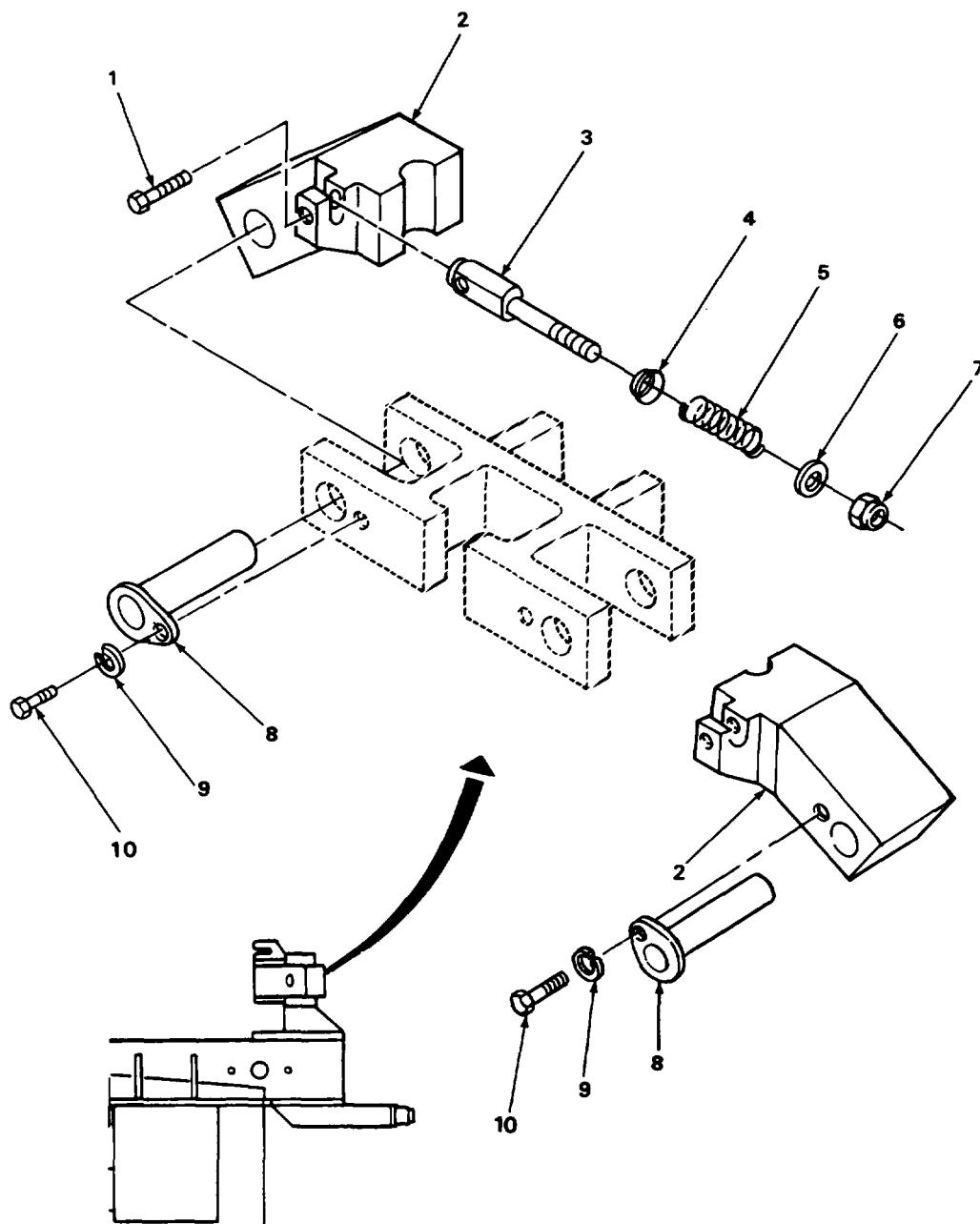


FIGURE 43. CENTRALIZER AND RELATED PARTS (RETROFIT KIT).

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7476 FEED AND LEVELING

FIG. 43 CENTRALIZER AND RELATED
PARTS (RETROFIT KIT)

1	PFOZZ	96906	MS90728-117	SCREW, CAP, HEXAGON H.....	1
2	XDOZZ	ODP42	20510	BLOCK, , CENTRALIZER	1
3	PAOZZ	ODP42	20560	BOLT, EYE.....	1
4	PAOZZ	ODP42	20550	WASHER, BEVEL.....	1
5	PAOZZ	ODP42	20540	SPRING, HELICAL, COMP.....	1
6	PFOZZ	96906	MS27183-21	WASHER, FLAT.....	1
7	PFOZZ	96906	MS51943-45	NUT, SELF-LOCKING, HE	1
8	XDOZZ	ODP42	20520	PIN, CENTRALIZER	2
9	PFOZZ	96906	MS35338-50	WASHER, LOCK.....	2
10	PFOZZ	96906	MS90728-158	SCREW, CAP, HEXAGON H	2

END OF FIGURE

43-1

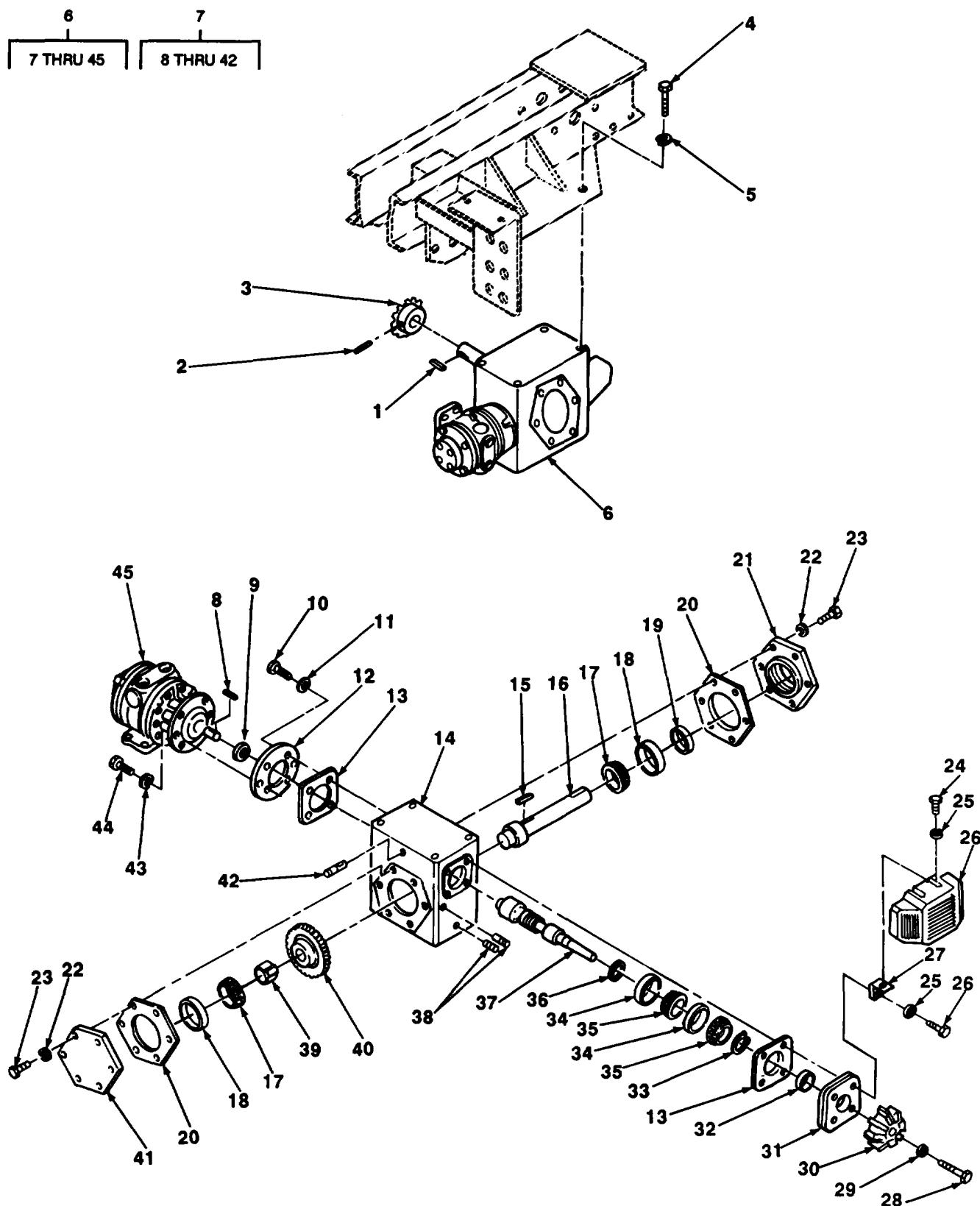


FIGURE 44. FEED MOTOR/GEARBOX AND RELATED PARTS (RETROFIT KIT).

SECTION II

TM 5-3820-241-24PC01

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7476 FEED AND LEVELING

FIG 44 FEED MOTOR/GEARBOX AND RELATED PARTS (RETROFIT KIT)

1	PAOZZ	ODP42	20460	KEY, MACHINE.....	1
2	PAOZZ	96906	MS51963-137	SETSCREW.,	1
3	PAOZZ	ODP42	20470	SPROCKET WHEEL.....	1
4	PFOZZ	96906	MS90728-164	SCREW, CAP, HEXAGON H.....	4
5	PFOZZ	96906	MS35338-50	WASHER, LOCK.....	4
6	XDOFF	ODP42	20450	MOTOR, FEED/GEARBOX	1
7	XDOFF	ODP42	20450-2	.GEAR ASSEMBLY, SPEED.....	1
8	PAFZZ	ODP42	AB138D	..KEY, MACHINE.....	1
9	PAFZZ	ODP42	21190	..SEAL, PLAIN ENCASED	1
10	PFFZZ	ODP42	21200	..SCREW, CAP, HEXAGON H.....	4
11	PFFZZ	ODP42	21210	..WASHER, LOCK.....	4
12	PAFZZ	ODP42	21180	..RETAINER, PACKING	1
13	PAFZZ	ODP42	20890	..GASKET.....	2
14	XAFZZ	ODP42	20860	..HOUSING, GEAR ,	1
15	PAFZZ	ODP42	20950	..KEY, MACHINE.....	1
16	PFFZZ	ODP42	20930	..SHAFT, STRAIGHT	1
17	PFFZZ	ODP42	20980	..CONE, TAPERED ROLLER	2
18	PFFZZ	ODP42	20970	..CUP, TAPERED ROLLER	2
19	PAFZZ	ODP42	20990	..SEAL, PLAIN ENCASED	1
20	PAFZZ	ODP42	20920	..GASKET.....	2
21	XDFZZ	ODP42	20910	..COVER, BEARING	1
22	PFFZZ	ODP42	21010	..WASHER, LOCK.....	12
23	PFFZZ	ODP42	21000	..SCREW, HEXAGON H	12
24	PAFZZ	ODP42	21050	..SCREW, MACHINE	4
25	XDFZZ	ODP42	21060	..WASHER, FLAT	4
26	PFFZZ	ODP42	21120	..COVER, ACCESS.....	1
27	PAFZZ	ODP42	21070	..BRACKET, ANGLE ,	4
28	PFFZZ	ODP42	21090	..SCREW, CAP, HEXAGON H.....	1
29	PFFZZ	ODP42	21100	..WASHER, LOCK.....	1
30	XDFZZ	ODP42	21110	..IMPELLER, FANICENTRI[.....	1
31	XDFZZ	ODP42	20870	..COVER, INPUT	1
32	PAFZZ	ODP42	21080	..SEAL, PLAIN ENCASED	1
33	XDFZZ	ODP42	21140	..RING, RETAINING.....	1
34	PAFZZ	ODP42	21150	..CUP, TAPERED ROLLER	2
35	PAFZZ	ODP42	21160	..CONE, TAPERED ROLLER	2
36	XDFZZ	ODP42	21170	..RING, RETAINING-	1
37	PAFZZ	ODP42	21130	..SHAFT, SHOULDERED ,	1
38	PFFZZ	ODP42	21030	..PLUG, PIPE	2
39	PAFZZ	ODP42	20960	..SPACER, SLEEVE,.....	1
40	PAFZZ	ODP42	20940	..GEAR, WORM WHEEL	1
41	XDFZZ	ODP42	20900	..COVER, OUTPUT.....	1
42	PFFZZ	ODP42	21020	..PLUG, VENT	1
43	PAOZZ	96906	MS35338-46	.WASHER, LOCK.....	4
44	PAOZZ	96906	MS90728-60	.SCREW, CAP, HEXAGON H.....	4
45	XDOFF	ODP42	20450-1	MOTOR, AIR FEED	1

END OF FIGURE

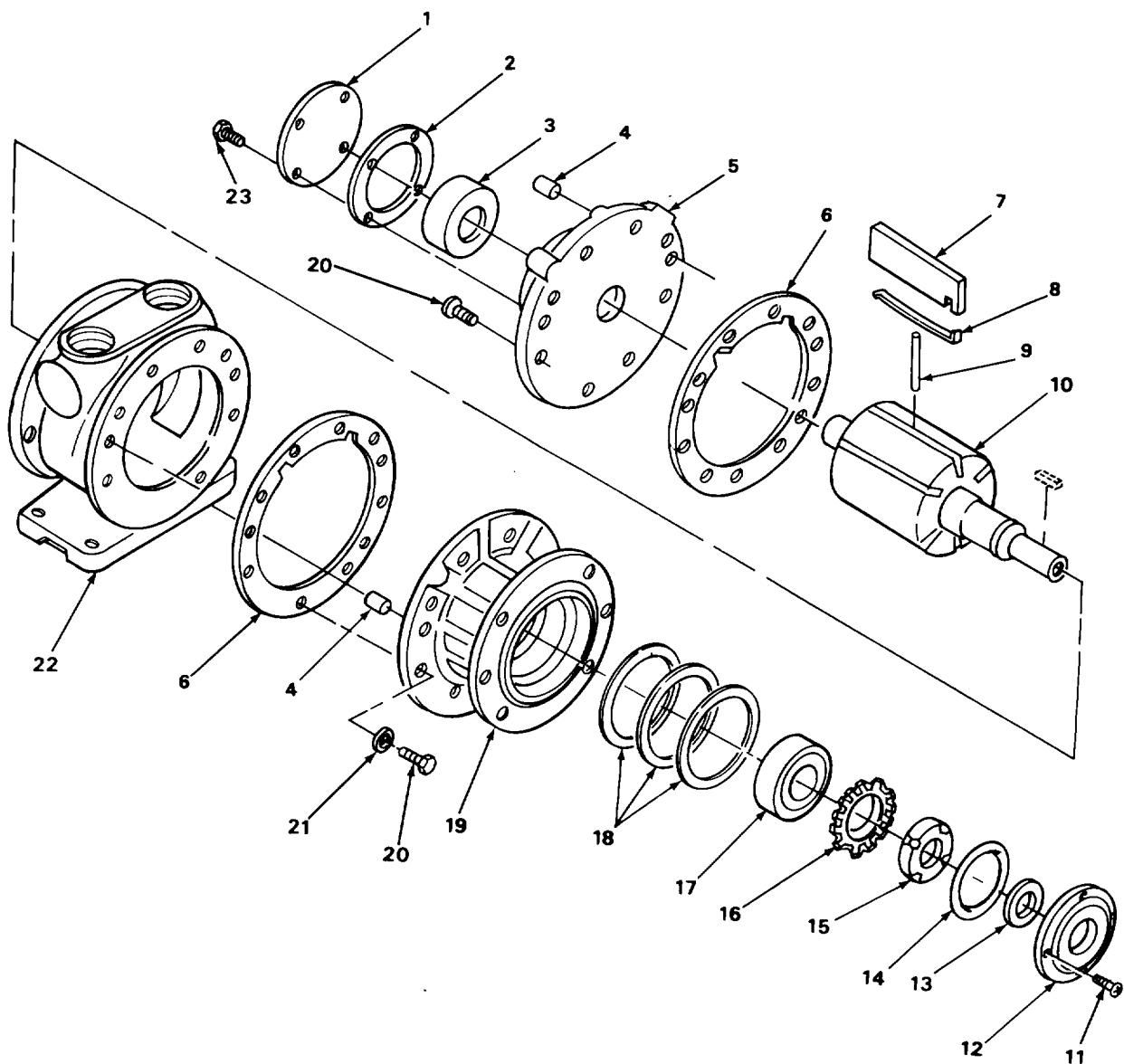


FIGURE 45. AIR MOTOR COMPONENTS (RETROFIT KIT).

SECTION II**TM 5-3820-241-24P****C01**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7476 FEED AND LEVELING

FIG. 45 AIR MOTOR COMPONENTS
(RETROFIT KIT)

1	PAFZZ	ODP42	AG405	..COVER, ACCESS.....	1
2	PAFZZ	ODP42	AG406	..GASKET.....	1
3	PAFZZ	ODP42	AD802	..BEARING PART OF KIT P/N K213	1
4	XDFZZ	ODP42	AB941A	..PIN, STRAIGHT, HEADLE.....	4
5	XDFZZ	ODP42	AD821A	..PLATE, END	1
6	PAFZZ	ODP42	AD788	..GASKET PART OF KIT P/N K213.....	2
7	PAFZZ	ODP42	AD795A	..VANE, PUMP, ROTARY PART OF KIT P/N.....	6
			K213.....		
8	PAFZZ	24123	AD796A	..SPRING, VANE PART OF KIT P/N K213.....	6
9	XDFZZ	ODP42	AD822	..PIN, STRAIGHT, HEADLE PART OF KIT	3
			P/N K213.....		
10	XDFZZ	ODP42	AE807	..ROTOR	1
11	PAFZZ	96906	MS35206-281	..SCREW, MACHINE	4
12	PAFZZ	ODP42	AD816	..END BELL, ELECTRICAL.....	1
13	PAFZZ	ODP42	AC827	..SEAL, PLAIN PART OF KIT P/N K213.....	1
14	PAFZZ	ODP42	AD823	..PACKING, PREFORMED PART OF KIT P/N.....	1
			K213.....		
15	PAFZZ	ODP42	AD784	..NUT, SELF-LOCKING, CO	1
16	PAFZZ	ODP42	AD712	..WASHER, LOCK PART OF KIT P/N K213.....	1
17	PAFZZ	ODP42	AB777A	..BEARING, BALL, ANNULA PART OF KIT	1
			P/N K213i		
18	PAFZZ	ODP42	AD786	..SPACER, RING.....	3
19	XDFZZ	ODP42	AD323	..PLATE, DRIVE	1
20	PAFZZ	96906	MS90726-34	..BOLT, MACHINE	16
21	PAFZZ	96906	MS35333-41	..WASHER, LOCK.....	8
22	XDFZZ	ODP42	AD819	..BODY	1
23	PAFZZ	96906	MS35206-208	..SCREW, MACHINE	4

END OF FIGURE

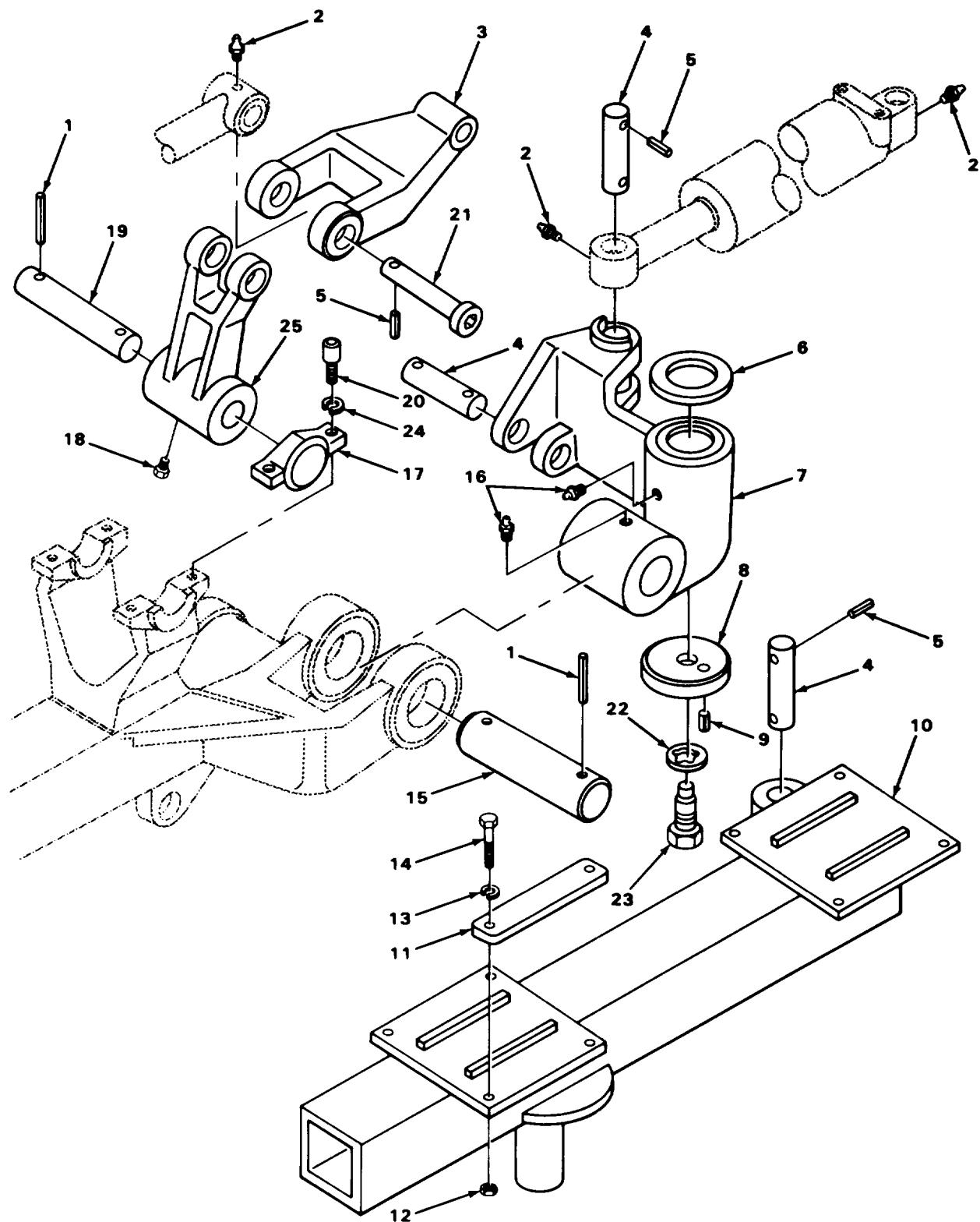


FIGURE 46. TILT AND SWING COMPONENTS.

SECTION II**TM 5-3820-241-24P**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 7486 MAST

FIG. 46 TILT AND SWING COMPONENTS

1	XDFZZ	56878	21S500-5000	PIN, SPRING.....	4
2	PAOZZ	96906	MS15003-1	FITTING, LUBRICATION	3
3	XDFZZ	89413	3139345-56	LINK WITH BUSHING AND SPACER	1
4	XDFZZ	84913	1139393-104	PIN, PIVOT.....	3
5	XDFZZ	89413	904685-152	PIN, SPRING.....	7
6	XDFZZ	89413	1139601-57	WASHER, FLAT	1
7	XDFZZ	89413	3139553-377	SUPPORT	1
8	XDFZZ	89413	1139141-160	CAP	1
9	XDFZZ	89413	904685-174	PIN, SPRING.....	1
10	XDFZZ	89413	3139565-73	TRUNNION	1
11	XDFZZ	89413	1139265-60	GIBS.....	4
12	XDFZZ	89413	900160-6	NUT, PLAIN, HEXAGON	8
13	XDFZZ	89413	900302-64	WASHER, LOCK.....	8
14	XDFZZ	89413	900020-45	SCREW, CAP, HEXAGON HEAD	8
15	XDFZZ	89413	1139393-146	PIN, PIVOT.....	1
16	PAOZZ	96906	MS15003-5	FITTING, LUBRICATION	2
17	XDFZZ	89413	1139141-176	CAP	2
18	PFFZZ	79470	3151X2	PLUG, PIPE	1
19	XDFZZ	89413	1139393-145	PIN, PIVOT.....	1
20	XDFZZ	89413	902224-889	SCREW, CAP, SOCKET HEAD, CAP MTG	4
21	XDFZZ	89413	1139393-144	PIN, PIVOT.....	1
22	XDFZZ	89413	900610-16	WASHER, LOCK CAP MTG	1
23	XDFZZ	89413	900244-108	SCREW, CAP, HEXAGON H HEAD, CAP MTG	1
24	XDFZZ	89413	900306-7	WASHER, LOCK CAP MTG	4
25	XDFZZ	89413	3139053-52	LEVER, REMOTE CONTROL ARM	1

END OF FIGURE

46-1

SECTION II**TM 5-3820-241-24PC01**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 94 REPAIR KITS

GROUP 9401 REPAIR KITS

FIG. KITS

* KFFZZ	ODP42	K213	REPAIR, KIT	1
			BEARING (1) 45-3	
			BEARING, BALL, ANNULA (1) 45-17	
			GASKET (2) 45-6	
			PACKING, PREFORMED (1) 45-14	
			PIN, STRAIGHT, HEADLE (3) 45-9	
			SEAL, PLAIN (1) 45-13	
			SPRING, VANE (6) 45-8	
			VANE, PUMP, ROTARY (6) 45-7	
			WASHER, LOCK (1) 45-16	
* KFFZZ	89413	1139001-21	KIT, REPAIR BLOCKHEA.....	1
			O RING (1) 32-12	
			O RING (1) 32-14	
* KFFZZ	89413	3139577-19	KIT, VANE	1
			PIN, SHUTTLE (4) 10-38	
			SPRING (4) 10-39	
			VANE (4) 10-40	
* KFFZZ	89413	3139774-8	KIT, HYDRAULIC PUMP.....	1
			O-RING (2) 10-5	
			SEAL (1) 10-11	

END OF FIGURE

KIT-1

SECTION II

TM 5-3820-241-24P C01

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 95 GENERAL USE STANDARDIZED PARTS					
GROUP 9501 BULK MATERIEL					
FIG. BULK					
1	XDOZZ	89413	1599W3	HOSE, NONMETALLIC	V
2	XDOZZ	89413	1599W4	HOSE, NONMETALLIC	V
3	XDOZZ	89413	1599W4-31	HOSE, NONMETALLIC	V
4	XDOZZ	89413	1599W5	HOSE, NONMETALLIC	V
5	XDOZZ	89413	1599W5-40	HOSE, NONMETALLIC	V
6	XDOZZ	89413	1599W6	HOSE, NONMETALLIC	V
7	XDOZZ	89413	1599W8	HOSE, NONMETALLIC	V
8	XDOZZ	89413	902085-8	HOSE, NONMETALLIC	V
9	XDOZZ	89413	902085-10	HOSE, WIRE BRAID.....	V
10	XDOZZ	89413	902085-16	HOSE, WIRE BRAID.....	V
11	XDOZZ	89413	903995-10	HOSE, WIRE BRAID.....	V
12	PAOZZ	81348	RRC271	LINK, CHAIN, CONNECTI	V

END OF FIGURE

BULK-1

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
4730-00-011-3175	46	18	5310-00-215-1418	29	12
4730-00-044-4715	27	31		29	24
4730-00-050-4203	7	3	5310-00-225-6993	41	6
4730-00-050-4208	1	21	5306-00-225-9089	45	20
	5	4	4730-00-231-3019	13	11
	8	1	4730-00-237-3994	11	43
	36	17	3040-00-237-4011	11	30
	38	7	4820-00-237-4029	23	1
	39	4	3820-00-237-9353	11	47
	46	2	5315-00-243-1169	7	10
5305-00-068-0510	44	44	4730-00-246-9188	10	28
5305-00-071-2067	36	22	4730-00-246-9218	10	25
5305-00-071-2069	3	4		18	2
	39	24		18	10
5305-00-071-2071	41	15		20	8
5305-00-071-2073	43	1		30	7
5305-00-071-2075	36	27	4730-00-246-9220	18	9
5330-00-080-9639	29	20		19	9
4730-00-081-5893	13	22	4730-00-246-9221	18	6
4820-00-087-6367	11	41	4730-00-246-9222	21	16
5360-00-106-4389	45	8	5310-00-269-4040	41	21
5330-00-108-1129	45	14	5365-00-270-0683	29	17
5330-00-108-1130	45	6	5315-00-271-7523	23	25
3110-00-117-0692	39	9	4730-00-27a-2678	27	10
6105-00-138-5418	35	1	4730-00-278-3768	19	7
5330-00-159-3171	29	22	4730-00-288-9785	27	14
5330-00-159-3177	29	4	4730-00-289-5176	27	30
	29	16	4730-00-289-5484	27	22
3110-00-159-7131	36	42	3110-00-293-8998	1	3
5330-00-163-6945	11	12	5315-00-308-2413	11	18
3010-00-166-4322	31	1	4730-00-322-8457	22	2
3820-00-166-4323	30	1	5330-00-399-6984	11	19
5310-00-166-8600	11	21	4730-00-401-0101	18	7
5305-00-166-8748	11	16	4730-00-401-0135	20	6
5310-00-167-0721	45	21	4730-00-405-6282	22	5
3820-00-167-4277	25	1	5310-00-407-9566	28	33
3895-00-167-6877	14	1	5310-00-409-3333	42	2
4730-00-172-0010	3	8		43	7
	4	15	5365-00-458-2177	11	5
	31	8	5330-00-482-4629	29	14
4730-00-172-0028	37	11	5330-00-482-4630	28	14
4730-00-172-0031	3	15		29	18
	38	5	5340-00-483-2594	29	15
	46	16	5330-00-484-1812	11	26
4730-00-172-0034	41	14	5330-00-484-1813	11	46
4010-00-179-0768	BULK	12	5365-00-487-5331	11	6
5310-00-179-9394	1	9	4730-00-496-2700	20	5
4730-00-188-1901	10	26		27	5
4730-00-193-2702	21	11	3110-00-516-5289	31	24
4730-00-196-1468	27	29	5330-00-518-6194	11	25

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-00-543-4372	2	31	4730-00-852-4308	13	17
	37	2	4730-00-878-2824	13	18
3110-00-554-3197	31	15	5310-00-880-7744	28	34
3110-00-554-6030	35	2	5330-00-887-0010	11	35
4730-00-555-1764	13	7	4730-00-906-0721	13	15
5330-00-559-2632	36	6	5330-00-906-1615	11	39
5365-00-579-5983	30	15	5330-00-906-1616	11	37
5310-00-584-5272	28	36	5330-00-906-1617	11	38
	36	21	4030-00-916-2141	7	9
	41	19	5330-00-921-6775	11	11
5310-00-595-7237	30	2	5305-00-922-7994	42	7
2530-00-630-3677	11	27	5305-00-942-2196	1	31
4820-00-630-3770	11	33	5305-00-947-4354	42	8
5310-00-637-9541	42	10	5305-00-947-4356	41	8
	44	43	4730-00-957-2417	27	15
5306-00-637-9675	37	17	5305-00-958-6381	45	23
4730-00-679-1686	27	27	4730-30-965-6538	19	2
5360-00-704-4253	7	6		20	2
5305-00-724-7218	43	10		34	6
5305-00-724-7222	41	24	4730-00-980-0912	2	27
	44	4		35	30
5305-00-725-0168	41	11	4730-00-988-1714	22	6
	44	2	5305-00-988-1725	45	11
5310-00-732-0558	10	29	3110-00-990-8236	34	4
	37	8	5330-00-997-9027	23	17
5315-00-752-4316	7	5	5330-01-022-5489	28	16
5310-00-763-8920	41	32	2540-01-023-5116	7	7
5310-00-768-0318	28	35	4730-01-025-6805	27	20
	41	18	5330-01-040-4773	28	20
5330-00-774-6554	11	14	3020-01-041-2622	28	5
5305-00-782-9489	42	9	5310-01-046-3910	36	53
5330-00-792-6217	11	28	5310-01-132-0955	11	31
5365-00-803-7301	7	4	4730-01-139-1652	27	4
5365-00-804-7647	39	10	5305-01-142-4872	28	32
5310-00-809-5997	36	4	4730-01-156-4835	13	1
	41	5	4820-01-158-9223	11	23
4730-00-809-9427	34	5	5310-01-160-3980	41	22
4730-00-813-9611	20	9	3120-01-172-6423	28	19
	32	8	5330-01-173-0969	28	18
5310-00-820-6653	41	31	3110-01-176-7775	45	3
	43	9	3110-01-176-7810	45	17
	44	5	5310-01-176-8075	45	16
5310-00-823-8803	41	23	4730-01-214-8932	27	8
	43	6	2590-01-244-9516	12	27
2540-00-835-9039	7	1	5330-01-247-1082	12	23
5310-00-838-1702	41	9	5330-01-247-1119	15	18
5315-00-838-4584	37	19	3120-01-247-9428	3	10
4730-00-839-8794	27	19	5365-01-248-1605	15	24
4730-00-840-3345	27	6	5330-01-248-4434	12	22
2940-00-845-4960	13	23	3120-01-251-2001	28	22

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-01-251-5417	28	30	4720-01-353-7426	27	24
4730-01-345-8681	27	12	4720-01-353-7427	27	25
5305-01-351-7838	44	10	4720-01-353-7428	27	7
4730-01-351-8103	27	26	3040-01-353-7535	29	11
5305-01-352-2008	29	27	3040-01-353-7639	29	26
4730-01-352-2272	27	17	5305-01-353-8319	29	30
3040-01-352-2311	41	20	3020-01-353-8542	36	44
4730-01-352-2467	27	9	3020-01-353-8799	42	11
5306-01-352-3158	43	3	5330-01-353-9380	28	23
3040-01-352-3777	44	16	5330-01-353-9397	44	13
3040-01-352-3778	44	37	5330-01-353-9398	44	20
5315-01-352-4283	44	1	5310-01-353-9506	45	15
3040-01-352-6064	41	10	5330-01-353-9542	36	28
5315-01-352-7431	44	8	5330-01-353-9546	36	19
5315-01-352-7447	29	28	5330-01-353-9556	36	7
5330-01-352-7458	44	9	5330-01-353-9557	36	5
5330-01-352-7462	45	13	4330-01-354-0488	28	7
5330-01-352-7497	45	2	4320-01-354-1287	45	7
5330-01-352-7575	44	12	4730-01-354-2636	27	16
3110-01-352-8208	36	48	4820-01-354-2730	27	28
3020-01-352-9117	36	39	9905-01-354-3506	9	1
3020-01-352-9119	44	40	9905-01-354-3507	9	2
3020-01-352-9178	41	12	5310-01-354-3730	36	54
3020-01-352-9179	44	3	5330-01-354-3737	36	49
4010-01-352-9755	41	1	5330-01-354-4161	36	13
	42	1	4810-01-354-5438	36	14
5340-01-353-1988	29	25	5306-01-354-5733	36	12
6105-01-353-2279	45	12	5330-01-354-6412	44	32
3110-01-353-2579	36	31	5305-01-354-7667	28	12
3120-01-353-2639	36	40		28	27
3120-01-353-2640	36	51	5305-01-354-76756	28	6
3120-01-353-2641	41	13	3110-01-354-8792	36	23
5310-01-353-2667	44	11	5360-01-354-6888	43	5
5310-01-353-2674	43	4	3040-01-354-9063	36	38
3120-01-353-2687	36	51	4710-01-354-9271	36	3
5340-01-353-3590	45	1	3120-01-354-9778	36	47
3110-01-353-4478	44	17	4730-01-355-0442	27	18
3110-01-353-4479	44	35	4720-01-355-0460	27	21
3110-01-353-4480	36	25	3040-01-355-0546	41	7
3110-01-353-4481	44	18	3120-01-355-1003	36	43
3110-01-353-4482	44	34	5365-01-355-1105	36	2
5365-01-353-4559	42	5	3120-01-355-2661	36	24
5340-01-353-5265	28	11	6685-01-355-3403	27	13
5340-01-353-5283	28	15	5315-01-355-3635	44	15
5315-01-353-5956	28	10	3465-01-355-4483	42	6
5330-01-353-5986	28	9	5340-01-355-5198	44	27
5315-01-353-7024	36	9	5340-01-355-5207	29	7
4720-01-353-7423	27	1	5340-01-355-5226	44	42
4720-01-353-7424	27	2	5340-01-355-5232	44	26
4720-01-353-7425	27	3	5340-01-355-5281	29	21

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5340-01-355-5283	29	1			
5365-01-355-6740	29	8			
5365-01-355-6765	44	39			
4810-01-355-7796	27	23			
5305-01-355-8260	29	2			
5305-01-355-8261	44	23			
5305-01-355-8262	44	24			
5305-01-355-8272	29	6			
5305-01-355-8283	44	28			
5330-01-355-8615	44	19			
4730-01-355-8941	44	38			
4820-01-355-8943	29	3			
5365-01-355-9454	42	4			
5365-01-355-9455	41	17			
5310-01-355-9957	44	22			
5310-01-355-9958	44	29			
4820-01-356-0826	23	2			
4820-01-356-0827	28	24			
5355-01-356-2029	28	4			
	29	10			
9905-01-356-2746	9	3			
4820-01-356-3607	28	13			
5365-01-356-6165	41	30			
3020-01-356-6840	41	2			
3460-01-356-7991	36	56			
3820-01-356-9101	36	1			
5365-01-358-7986	45	18			
4730-01-361-2272	27	11			

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
89413	AA1212-2		2	5
ODP42	AB138D	5315-01-352-7431	44	8
ODP42	AB777A	3110-01-176-7810	45	17
ODP42	AB941A		45	4
46717	AC-1-310	4730-01-156-4835	13	1
ODP42	AC827	5330-01-352-7462	45	13
ODP42	AD323		45	19
ODP42	AD712	5310-01-176-8075	45	16
ODP42	AD784	5310-01-353-9506	45	15
ODP42	AD786	5365-01-358-7986	45	18
ODP42	A0788	5330-00-108-1130	45	6
ODP42	AD795A	4320-01-354-1287	45	7
24123	AD796A	5360-00-106-4389	45	8
ODP42	AD802	3110-01-176-7775	45	3
ODP42	AD816	6105-01-353-2279	45	12
ODP42	AD819		45	22
ODP42	AD821A		45	5
ODP42	AD822		45	9
ODP42	AD823	5330-00-108-1129	45	14
ODP42	AE807		45	10
ODP42	AG405	5340-01-353-3590	45	1
ODP42	AG406	5330-01-352-7497	45	2
89413	A131428		13	12
89413	A134011		30	12
83179	A135139-2		32	21
89413	A135937		30	9
89413	A138210		33	2
89413	A13858-397		39	14
89413	A154892		35	23
89413	A154926		35	17
89413	A155470		35	20
89413	A155798A		37	5
89413	A155856		35	4
90407	A221874P11		15	4
80204	B1821BH038C075N	5305-00-543-4372	2	31
			37	2
51588	822-96		8	16
01887	CS1000-2		23	31
01887	CS2000-2		23	20
01887	C1000-2		23	29
35301	C181-9	3110-00-554-6030	35	2
01887	C2000-2		23	22
01887	D1000-2		23	32
01887	D2000-2		23	19
70847	E036	4730-00-401-0135	20	6
60038	HM212049	3110-00-293-8998	1	3
01887	H1000-2		23	28
01887	H2000-2		23	26
70847	J305		20	3
60380	J68	3110-00-159-7131	36	42
ODP42	K213		KITS	

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
60038	K91513	5310-00-179-9394	1	9
ODP42	M-370-A		28	29
90598	MAL90356-5	5310-01-160-3980	41	22
91340	MPD9484-58-13	4730-00-193-2702	21	11
96906	MS15001-1	4730-00-050-4203	7	3
96906	MS15002-1	4730-00-172-0010	3	8
			4	15
			31	8
96906	MS15003-1	4730-00-050-4208	1	21
			5	4
			8	1
			36	17
			38	7
			39	4
			46	2
96906	MS15003-4	4730-00-172-0028	37	11
96906	MS15003-5	4730-00-172-0031	3	15
			38	5
			46	16
96906	MS15003-6	4730-00-172-0034	41	14
96906	MS16562-66	5315-00-838-4584	37	19
96906	MS16562-73	5315-00-271-7523	23	25
96906	MS16624-1050	5365-00-803-7301	7	4
96906	MS16624-4059	5365-00-804-7647	39	10
96906	MS18154-60	5305-00-942-2196	1	31
96906	MS20822-16	4730-00-231-3019	13	11
96906	MS20826-6	4730-00-988-1714	22	6
96906	MS27183-17	5310-00-809-5997	36	4
			41	5
96906	MS27183-21	5310-00-823-8803	41	23
			43	6
96906	MS35206-208	5305-00-958-6381	45	23
96906	MS35206-281	5305-00-988-1725	45	11
96906	MS35301-201		39	34
96906	MS35307-332	5306-00-637-9675	37	17
96906	MS35333-41	5310-00-167-0721	45	21
96906	MS35333-42	5310-00-595-7237	30	2
96906	MS35338-45	5310-00-407-9566	28	33
96906	MS35338-46	5310-00-637-9541	42	10
			44	43
96906	MS35338-48	5310-00-584-5272	28	36
			36	21
			41	19
96906	MS35338-50	5310-00-820-6653	41	31
			43	9
			44	5
96906	MS35691-57	5310-00-838-1702	41	9
96906	MS51335-2	2540-00-835-9039	7	1
96906	MS51500A4-4	4730-00-289-5484	27	22
96906	MS51500A6-6	4730-00-322-8457	22	2
96906	MS51500A8	4730-00-813-9611	20	9

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	M51500A8	4730-00-813-9611	32	8
96906	MS51500A8-8	4730-00-809-9427	34	5
96906	MS51504A8	4730-00-555-1764	13	7
96906	MS51846-96	4730-01-214-8932	27	8
96906	MS51922-33	5310-00-225-6993	41	6
96906	MS51922-49	5310-00-269-4040	41	21
96906	MS51943-45	5310-00-409-3333	42	2
			43	7
96906	MS51953-109B	4730-30-188-1901	10	26
96906	MS51953-97	4730-00-196-1468	27	29
96906	MS51963-137	5305-00-725-0168	41	11
			44	2
96906	MS51967-14	5310-00-768-0318	28	35
			41	18
96906	MS51967-20	5310-00-763-8920	41	32
96906	MS51967-5	5310-00-880-7744	28	34
96906	MS51967-8	5310-00-732-0558	10	29
			37	8
96906	MS87006-53	4030-00-916-2141	7	9
96906	MS90726-34	5306-00-225-9089	45	20
96906	MS90728-111	5305-00-071-2067	36	22
96906	MS90728-113	5305-00-071-2069	3	4
			39	24
96906	MS90728-115	5305-00-071-2071	41	15
96906	MS90728-117	5305-00-071-2073	43	1
96906	MS90728-119	5305-00-071-2075	36	27
96906	MS90728-158	5305-00-724-7218	43	10
96906	MS90728-164	5305-00-724-7222	41	24
			44	4
96906	MS90728-189	5305-00-922-7994	42	7
96906	MS90728-191	5305-00-947-4354	42	8
96906	MS90728-193	5305-00-947-4356	41	8
96906	MS90728-60	5305-00-068-0510	44	44
96906	MS90728-66	5305-00-782-9489	42	9
03743	M22629	3110-00-990-8236	34	4
80205	NAS1352C5-48	5305-01-142-4872	28	32
80205	NAS1352C8-40	5305-01-251-5417	28	30
05643	NP5002005	4730-00-496-2700	20	5
			27	5
ODP42	P-1000-10	5330-00-080-9639	29	20
ODP42	P-1000-12	5330-01-353-5986	28	9
ODP42	P-1000-17	5330-00-482-4630	28	14
			29	18
ODP42	P-1000-19	5330-00-482-4629	29	14
ODP42	P-1000-25	5330-01-040-4773	28	20
ODP42	P-1001-10D	5355-01-356-2029	28	4
			29	10
ODP42	P-1004-02	5330-00-997-9027	28	17
ODP42	P-1100-10	5330-00-159-3171	29	22
ODP42	P-1100-13	5330-00-159-3177	29	4
			29	16

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
ODP42	P-1100-17	5330-01-022-5489	28	16
ODP42	P-1100-21	5330-01-353-9380	28	23
ODP42	PAS-2528-16	5305-01-354-7667	28	12
			28	27
ODP42	PFS-1032-20	5305-01-352-2008	29	27
ODP42	PFS-1032-24	5305-01-355-8260	29	2
ODP42	PSS-1032-04	5305-01-354-7676	28	6
73370	P1656	2940-00-845-4960	13	23
59690	P18244	3110-00-117-0692	39	9
21335	P9105KE6569		2	8
66289	QD0631	5330-00-399-6984	11	19
01887	Q1000		23	34
01887	Q2000-2		23	17
81348	RRC271	4010-00-179-0768	BULK	12
08162	R1211TS		2	1
ODP42	SA-4302-69L	5340-01-355-5283	29	1
ODP42	SA-4302-81		29	23
ODP42	SA-4702-69L	4820-01-356-0826	28	2
ODP42	SA-4702-82	4820-01-356-0827	28	24
15434	S962	4730-00-044-4715	27	31
ODP42	VM453-3		29	29
ODP42	VUL-4513		29	13
ODP42	VZL-2711	4820-01-356-3607	28	13
22681	V101P2P6A20		10	10
81348	WW-P-471ACABUO	4730-00-289-5176	27	30
20859	XSC131	5365-00-579-5983	30	15
ODP42	01320007		36	18
ODP42	01820008	4710-01-354-9271	36	3
98441	0188-12-12	4730-00-965-6538	19	2
			20	2
			34	6
ODP42	06180009		36	15
ODP42	06200015		36	16
ODP42	06200016		36	10
ODP42	06296004	3820-01-356-9101	36	1
ODP42	06430006		36	8
ODP42	06470008	5330-01-353-9542	36	28
ODP42	06510026	4810-01-354-5438	36	14
ODP42	06570016	5306-01-354-5733	36	12
	02249	086	11	17
ODP42	0903535-1216	5310-01-046-3910	36	53
ODP42	0904581-0091		36	34
ODP42	0904685-0198	5315-01-353-7024	36	9
ODP42	0960023-0001	3110-01-353-4480	36	25
30780	10F50XS	4730-00-906-0721	13	15
92852	10519		12	17
			16	14
89413	106520		32	34
89413	10653D		32	25
89413	112600		33	8
02249	1129	5330-00-792-6217	11	28

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
89613	113035-4		36	9
89413	113125-265		39	29
ODP42	1139001-0184		36	11
89413	1139001-21		KITS	
ODP42	1139004-0078	3460-01-356-7991	36	56
89613	1139004-50		34	24
89413	1139005-29		33	5
89413	1139007-44		33	4
89613	1139013-2		32	20
89413	1139014-16		32	30
89413	1139021-1		32	19
89413	1139022-2		34	23
ODP42	1139024-0088	5330-01-354-3737	36	49
89413	1139024-60		34	22
ODP42	1139027-0019	5365-01-355-1105	36	2
89413	1139027-7		32	2
89413	1139035-7		10	41
89413	1139065-3		30	20
89413	1139045-33	5330-01-267-1119	15	18
89413	1139045-34	5330-01-248-4436	12	22
89413	1139065-35		11	15
89413	1139045-49		16	17
89413	1139049-5		8	19
89413	1139073-2		4	11
89413	1139073-3	3120-01-247-9428	3	10
89413	1139073-5		8	14
89413	1139081-103		1	22
89413	1139085-17		25	13
89613	1139085-46		23	8
89413	1139085-60		23	7
89413	1139085-66		23	12
89413	1139089-40		3	11
89413	1139097-5		13	4
89413	1139105-154		1	34
ODP42	1139125-0376	3120-01-355-1003	36	43
ODP42	1139125-0319	3120-01-354-9778	36	47
ODP42	1139125-0445	3120-01-353-2640	36	51
89413	1139125-121		1	20
			5	5
89413	1139125-127		1	38
89413	1139125-138		25	18
89413	1139125-139		25	19
89413	1139125-150		40	2
89613	1139125-186		6	3
89413	1139125-266		39	25
89413	1139125-314		39	12
89413	1139125-365		33	10
ODP42	1139141-0260		36	52
89413	1139141-126		3	5
89413	1139141-160		46	8
89413	1139141-176		46	17

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NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
89413	1139141-52		34	27
89413	1139145-4		2	12
89413	1139149-69		39	31
89413	1139149-70		39	26
89413	1139177-59		39	19
89413	1139182-14		2	6
ODP42	1139185-0277		36	50
ODP42	1139185-0278		36	55
89413	1139185-112		10	4
89413	1139185-42		31	16
89413	1139185-44		1	5
89413	1139185-45		2	33
89413	1139185-61		34	3
89413	1139205-106		15	5
89413	1139205-132		12	13
89413	1139205-134		14	5
89413	1139205-69		17	5
89413	1139225-10		2	17
ODP42	1139235-0037		36	46
89413	1139235-14		10	33
89413	1139235-15		10	44
ODP42	1139241-0139	5330-01-353-9546	36	19
89413	1139241-27		1	35
ODP42	1139253-0208		36	32
ODP42	1139253-0209	3020-01-353-8542	36	44
ODP42	1139253-0212		36	35
89413	1139253-5		31	23
89413	1139253-61		2	11
89413	1139253-62		2	9
89413	1139253-63		1	7
89413	1139253-64		2	2
89413	1139253-8		31	14
89413	1139253-85		31	21
89413	1139265-60		456	11
89413	1139265-71		40	5
89413	1139281-106		23	3
89413	1139281-34		25	10
89413	1139281-54		1	32
89413	1139281-55		1	32
89413	1139285-12		15	16
89413	1139285-14		17	13
89413	1139285-18		12	20
89413	1139285-20		14	15
89413	1139285-21		2	28
89413	1139285-26		16	17
89413	1139301-14		1	16
89413	1139301-16		2	22
89413	1139301-17		2	22
ODP42	1139305-0019		36	30
89413	1139345-18		39	16
89413	1139345-21		39	15

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
89413	1139345-44		39	17
ODP42		1139353-0065	36	26
89413	1139353-33		23	9
89413	1139361-14		34	2
89413	1139369		14	21
ODP42		1139369-0153	36	37
89413	1139369-16		2	36
89413	1139369-19		25	9
89413	1139369-23		5	9
89413	1139369-28		15	22
89413	1139369-32		17	4
89413	1139369-38		12	26
89413	1139369-47		16	23
89413	1139369-71		14	4
89413	1139369-95		33	19
ODP42	1139373-0111	5330-01-353-9557	36	5
89413	1139373-19		25	7
89413	1139373-23		4	4
89413	1139373-25		15	19
89413	1139373-26		14	13
			15	14
89413	1139373-28		17	11
89413	1139373-29	5330-01-247-1082	12	23
89413	1139373-30		17	16
89413	1139373-34		12	16
			16	13
89413	1139373-36		34	8
89413	1139373-40		14	18
89413	1139389-100		10	38
89413	1139389-104		10	47
89413	1139389-164		39	5
89413	1139389-200		23	4
89413	1139389-63		2	10
89413	1139389-65		1	18
89413	1139389-70		6	4
89413	1139393-104		38	9
			46	4
89413	1139393-140		38	1
89413	1139393-144		46	21
89413	1139393-145		46	19
89413	1139393-146		46	15
89413	1139393-50		8	2
89413	1139393-87		10	15
89413	1139398-106		17	9
89413	1139398-208		14	9
89413	1139398-61		2	39
89413	1139398-75		12	5
			16	10
89413	1139398-76		14	14
			15	15
89413	1139398-80		12	11

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
89413	1139398-80		15	11
89413	1139398-82		17	12
89413	1139398-84		17	21
ODP42	1139400-0338		36	20
ODP42	1139400-0340		36	29
ODP42	1139400-0541		36	33
89413	1139400-108		14	3
			15	3
89413	1139400-111		17	3
89413	1139400-126		12	19
			16	16
89413	1139400-157		10	36
89413	1139400-159		33	17
89413	1139400-160		33	15
89413	1139400-176		8	4
89413	1139400-181		33	14
89413	1139400-182		10	7
89413	1139400-257		23	5
89413	1139400-287		12	14
			16	3
89413	1139400-87		33	6
89413	1139409-7		2	32
89413	1139409-8		2	32
89413	1139417-26		1	15
89413	1139417-33		34	18
89413	1139421-23		15	6
89413	1139421-27		17	6
89413	1139421-31		12	9
			14	6
			16	5
89413	1139437		14	2
ODP42	1139437-0230		36	41
89413	1139437-148		33	7
89413	1139437-2		32	9
89413	1139437-39		12	4
			16	9
89413	1139437-41		14	19
89413	1139437-43	5365-01-248-1605	15	24
89413	1139437-47		17	2
89413	1139437-48		17	17
89413	1139437-50		17	18
89413	1139437-53		12	28
89413	1139437-80		16	25
89413	1139441-11		15	10
89413	1139441-8		10	9
89413	1139453-10		10	37
89413	1139453-6		34	10
89413	1139469-2		25	17
89413	1139473-118		3	6
89413	1139473-13		40	11
89413	1139473-14		40	13

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NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
ODP42	1139477-0107	5330-01-353-9556	36	7
89413	1139477-24		10	5
89413	1139477-26		10	11
89413	1139482-5		32	32
ODP42	1139493-0157		36	45
ODP42	1139493-0194	3040-01-354-9063	36	38
89413	1139493-124		38	4
89413	1139493-52		2	16
89413	1139493-53		1	2
89413	1139493-66		34	15
89413	1139495-13		1	40
89413	1139501-5		31	11
89413	1139505-26		40	8
ODP42	1139509-0116	3120-01-353-2639	36	40
89413	1139513-118		4	10
89413	1139513-173		40	4
89413	1139513-26		16	12
89413	1139513-28		12	8
			12	32
			14	12
			15	13
ODP42	1139517-0188	5310-01-354-3730	36	54
89413	1139517-15		10	40
89413	1139517-28		12	21
			15	17
			16	18
89413	1139517-29		12	10
			14	7
			15	7
			16	6
89413	1139517-30		17	14
89413	1139517-36		4	6
89413	1139517-38		14	16
89413	1139517-42		17	7
89413	1139517-44		32	15
89413	1139517-53		10	39
89413	1139517-63		33	21
89413	1139517-8		39	32
89413	1139517-9		39	32
89413	1139521-34		31	5
89413	1139521-40		5	6
89413	1139521-62		31	10
89413	1139529-7		25	4
89413	1139541-20		13	13
89413	1139549-60		5	8
89413	1139557-1		32	7
89413	1139557-2		32	6
89413	1139581-109		23	6
89413	1139581-134		23	13
89413	1139601-30		31	3
89413	1139601-39		25	6

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NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
89413	1139601-57		46	6
89413	1139601-69		33	20
89413	1139609-1		15	23
89413	1139609-3		17	20
89413	1139609-4	2590-01-244-9516	12	27
89413	1139609-5		14	22
89413	1139617-25		33	22
89413	1139617-32		4	16
89413	1139701		25	8
89413	1139712		8	18
89413	1139758-1		32	23
ODP42	1139775-0029	3110-01-354-8792	36	23
ODP42	1139775-0030	3110-01-352-8208	36	48
89413	1139863		18	4
			19	3
			21	5
89413	1139864		21	4
01887	115		23	30
89413	1157105-8		35	18
89413	1169601		32	29
72582	119095	4730-00-246-9188	10	28
43334	1213RTS		2	3
89413	122550		32	5
89413	123670		30	11
89413	124700		30	6
89413	126030		30	17
89413	126043		30	8
89413	127100		30	18
32537	128220		32	28
89413	128238		30	5
19207	1293321-1		7	8
83179	131545		32	4
01887	132		23	33
97403	13218E0051-5	4730-00-246-9218	18	2
89413	132254		32	10
89413	132380		32	33
92798	13240LDSHIL5		1	6
92798	13241LD10SH115		5	7
89413	132865		31	19
89413	134119		32	17
89413	134463A		32	16
89413	137149		34	25
83179	137582		34	28
89413	137906		34	26
89413	138518		32	24
89413	138702		32	26
89413	138703		32	27
89413	138798		34	16
30379	141621	4730-00-246-9218	10	25
			18	10
			20	8

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CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
30379	141621	4730-00-246-9218	30	7
79470	1421	4820-01-158-9223	11	23
89413	1496188-4		10	8
89413	150502		35	33
80201	15084		39	11
89413	154555		35	25
89413	154787		2	25
89413	154799		35	10
89413	154800		35	11
89413	154801		35	9
89413	154803		35	13
89413	155506		35	15
89413	155507		35	14
89413	155508		35	16
89413	155608		37	15
89413	155799		37	10
89413	155805		37	13
89413	155806		37	9
89413	155807A		37	14
89413	155812		37	4
89413	155825		35	32
89413	155827-3		35	19
89413	1561326		16	24
89413	1561329		16	19
89413	1562104-10		16	20
89413	1562104-97		14	23
89413	1599W3	BULK	1	
19207	1599W3-01		19	5
			20	4
89413	1599W4	BULK	2	
19207	1599W4-01		18	13
			21	6
89413	1599W4-31	BULK	3	
19207	1599W4-31-01		21	13
89413	1599W5	BULK	4	
19207	1599W5-01		18	5
19207	1599W5-02		18	17
89413	1599W5-40	BULK	5	
19207	1599W5-40-01		19	4
89413	1599W6	BULK	6	
19207	1599W6-01		21	14
89413	1599W8	BULK	7	
19207	1599W8-01		21	10
02249	1615	5330-00-921-6775	11	11
02249	1621	5330-00-484-1812	11	26
89413	16402CM		1	37
89413	16479		17	19
89413	1705392-10		12	29
			16	26
02249	1800		11	42
02249	1801	4730-00-237-3994		11

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CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
02249	1802		11	15
02249	1804	2530-00-630-3677	11	27
02249	1808	5305-00-166-8748	11	16
02249	1810	3040-00-237-4011	11	30
02249	1811	4820-00-630-3770	11	33
02249	1812		11	32
02249	1813	5310-01-132-0955	11	31
02249	1817		11	34
02249	1818	5330-00-906-1615	11	39
02249	1819	5330-00-906-1616	11	37
02249	1820	5330-00-906-1617	11	38
02249	1821		11	36
02249	1830		11	22
02249	1845		11	20
02249	1851	5330-00-163-6945	11	12
02249	1856	5310-00-166-8600	11	21
02249	1857		11	44
95019	1858		11	24
02249	1859	5330-00-484-1813	11	46
79150	1862	5330-00-774-6554	11	14
02249	1863		11	13
02249	1865		11	3
29510	187154	4730-00-246-9222	21	16
02249	1880		11	2
02249	1881		11	7
02249	1883		11	8
02249	1890		11	10
01276	190295-8S	4730-00-878-2824	13	18
00P42	20020		42	3
ODP42	20030	3020-01-353-8799	42	11
ODP42	20060	5365-01-355-9454	42	4
00P42	20070	5365-01-353-4559	42	5
00P42	20080	3465-01-355-4483	42	6
ODP42	20110		41	4
ODP42	20140	4010-01-352-9755	41	1
			42	1
00DP42	20150	3020-01-356-6840	41	2
00P42	20160	3120-01-353-2641	41	13
ODP42	2017	3040-01-352-6064	41	10
ODP42	20180	3020-01-352-9178	41	12
ODP42	20230	3040-01-355-0546	41	7
ODP42	20310		41	3
00P42	20340	5365-01-355-9455	41	17
ODP42	20350	5365-01-356-6165	41	30
0DP42	20360		41	29
ODP42	20370		28	37
ODP42	20380		28	1
0DP42	20450		44	6
ODP42	20450-1		44	45
0DP42	20450-2		44	7

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CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
ODP42	20460	5315-01-352-4283	44	1
ODP42	20470	3020-01-352-9179	44	3
ODP42	20480		41	26
ODP42	20490		41	25
ODP42	20500	3040-01-352-2311	41	20
ODP42	20510		43	2
00P42	20520		43	8
ODP42	20540	5360-01-354-8888	43	5
ODP42	20550	5310-01-353-2674	43	4
ODP42	20560	5306-01-352-3158	43	3
00DP42	20660	4720-01-353-7423	27	1
00P42	20670	4720-01-353-7424	27	2
ODP42	20680	4720-01-353-7425	27	3
ODP42	20690	4720-01-353-7426	27	24
ODP42	20710	4720-01-353-7427	27	25
00P42	20720	4720-01-353-7428	27	7
00DP42	20740	4730-01-361-2272	27	11
ODP42	20860		44	14
ODP42	20870		44	31
ODP42	20890	5330-01-353-9397	44	13
00P42	20900		44	41
00DP42	20910		44	21
ODP42	20920	5330-01-353-9398	44	20
ODP42	20930	3040-01-352-3777	44	16
ODP42	20940	3020-01-352-9119	44	40
ODP42	20950	5315-01-355-3635	44	15
ODP42	20960	5365-01-355-6765	44	39
00OP42	20970	3110-01-353-4481	44	18
ODP42	20980	3110-01-353-4478	44	17
ODP42	20990	5330-01-355-8615	44	19
56878	21S500-5000		46	1
ODP42	21000	5305-01-355-8261	44	23
ODP42	21010	5310-01-355-9957	44	22
00P42	21020	5340-01-355-5226	44	42
ODP42	21030	4730-01-355-8941	44	38
ODP42	21050	5305-01-355-8262	44	24
00DP42	21060		44	25
ODP42	21070	5340-01-355-5198	44	27
ODP42	21080	5330-01-354-6412	44	32
ODP42	21090	5305-01-355-8283	44	28
ODP42	21100	5310-01-355-9958	44	29
ODP42	21110		44	30
00DP42	21120	5340-01-355-5232	44	26
ODP42	21130	3040-01-352-3778	44	37
ODP42	21140		44	33
ODP42	21150	3110-01-353-4482	44	34
00P42	21160	3110-01-353-4479	44	35
00OP42	21170		44	36
ODP42	21180	5330-01-352-7575	44	12
ODP42	21190	5330-01-352-7458	44	9
00P42	21200	5305-01-351-7838	44	10

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
ODP42	21210	5310-01-353-2667	44	11
23803	213SZ		2	7
80996	2139-3X2	25	14	
80996	21392000PSI1X14	4730-00-839-8794	27	19
01887	216		23	21
00P42	22010	9905-01-354-3506	9	1
ODP42	22020	9905-01-354-3507	9	2
00DP42	22030	9905-01-356-2746	9	3
ODP42	22050	4730-01-352-2467	27	9
ODP42	22070	6685-01-355-3403	27	13
0DP42	22080		28	31
ODP42	22090	5305-01-353-8319	29	30
ODP42	22140	4810-01-355-7796	27	23
ODP42	22150	4820-01-354-2730	27	28
ODP42	22160	4730-01-355-0442	27	18
00DP42	22170	4730-01-352-2272	27	17
ODP42	22200	4720-01-355-0460	27	21
01887	237		23	18
63906	24-120243		21	3
98441	2503-4-4	4730-01-025-6805	27	20
89413	251073		10	13
02249	2707	5330-00-887-0010	11	35
02249	2709	5330-00-518-6194	11	25
ODP42	2711-01		28	21
02249	2781	4820-00-087-6367	11	41
02249	2796		11	40
02249	2907		11	9
89413	3139003-36		33	1
89413	3139004-18		33	9
89413	3139008-27		32	31
89413	3139018-5		33	3
89413	3139025-10		32	3
89413	3139053-29		8	8
89413	3139053-52		46	25
89413	3139061-3		2	18
89413	3139065-26		8	12
89413	3139081-103		1	19
			5	3
89413	3139085-16		25	2
89413	3139093-102		38	3
89413	3139105-314		10	19
89413	3139105-497		11	54
89413	3139105-539		39	20
00DP42	3139125-0520	3120-01-353-2687	36	51
89413	3139141-151		4	3
89413	3139141-56		34	17
0DP42	3139145-0032		36	36
89413	3139182-22		10	22
89413	3139185-134		34	1
89413	3139189-33		40	6
89413	3139201-30		12	7

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CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
89413	3139201-30		14	11
89413	3139205-118		16	4
89413	3139213-6		23	2
89413	3139225-20		2	14
89413	3139237-117		1	1
89413	3139237-119		3	1
0DP42	3139253-0427	3020-01-352-9117	36	39
89413	3139253-107		33	13
89413	3139253-108		33	16
89413	3139265-70		40	9
89413	3139301-15		1	16
89413	3139301-51		31	6
89413	3139305-5		10	42
89413	3139345-56		46	3
89413	3139345-58		6	2
89413	3139353-41		26	2
89413	3139373-33		4	2
89413	3139398-159		30	16
89413	3139398-164		15	25
89413	3139398-202		16	28
89413	3139398-222		12	31
89413	3139398-224		14	25
89413	3139398-61		2	37
89413	3139400-90		40	7
89413	3139421-15		32	13
0DP42	3139449-0084	3120-01-355-2661	36	24
89413	3139449-28		3	9
89413	3139493-267		4	14
89413	3139493-49		31	7
89413	3139493-60		4	1
89413	3139493-61		3	7
89413	3139513-319		40	3
89413	3139521-55		39	8
89413	3139553-181		34	11
89413	3139553-256		38	6
89413	3139553-377		46	7
89413	3139557-38		19	1
89413	3139557-39		21	8
89413	3139565-73		46	10
89413	3139573-7		38	2
89413	3139577-19	KITS		
89413	3139581-123		30	10
89413	3139601-37		4	7
89413	3139601-38		3	12
89413	3139617-60		39	7
89413	3139753-7		4	9
89413	3139774-8	KITS		
89413	3140207-38		6	1
79470	3151X2	4730-00-011-3175	46	18
89413	3157175-22		35	31
89413	315725-6		35	12

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
89413	3157383-2		35	24
89413	3157383-3		35	21
89413	3157524-14		35	29
89413	3157525-1		35	3
80020	36344N24	5315-00-243-1169	7	10
89413	369928		10	3
89413	369930		10	6
89413	369936		10	16
00DP42	3701-02-288	5340-01-353-5283	28	15
89413	370199		10	17
89413	370201		10	12
89413	370202		10	14
01276	41-4721-10-8	4730-00-081-5893	13	22
00DP42	4302-02	5310-00-215-1418	29	12
			29	24
00P42	4302-18D	4820-01-355-8943	29	3
00P42	4302-190	5340-01-355-5207	29	7
ODP42	4302-200	5305-01-355-8272	29	6
ODP42	4302-22D	5365-01-355-6740	29	8
ODP42	4302-23D	3040-01-353-7535	29	11
00P42	4302-24D		29	9
ODP42	4302-27	5315-01-353-5956	28	10
ODP42	4302-56	3040-01-353-7639	29	26
ODP42	4302-58	5315-01-352-7447	29	28
97902	4302-83	3020-01-041-2622	28	5
			29	5
ODP42	4302-87	5340-01-353-1988	29	25
27315	44Q16D5	4730-00-852-4308	13	17
89413	450ARD		32	1
ODP42	4502-04	5365-00-270-0683	29	17
00P42	4502-43	5340-00-483-2594	29	15
ODP42	4503-05	5340-01-355-5281	29	21
ODP42	4512-01		29	19
02249	458		11	4
02249	459	5365-00-453-2177	11	5
02249	462	5365-00-487-5331	11	6
00DP42	4702-02A		28	25
00P42	4702-04	3120-01-172-6423	28	19
ODP42	4702-18L		28	3
ODP42	4702-19L	4330-01-354-0488	28	7
ODP42	4702-23L	5340-01-353-5265	28	11
ODP42	4702-24L		28	3
00DP42	4702-33	3120-01-251-2001	28	22
ODP42	4702-43	5330-01-173-0969	28	18
00DP42	4702-57		28	26
00DP42	4702-58A		28	28
89413	501002-257		17	1
89413	501002-312		15	1
89413	501002-316		16	1
89413	501002-329		12	1
89413	501002-340	3895-00-167-6877	14	1

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
89413	501003-26	3820-00-167-4277	25	1
89413	501003-43		24	1
89413	501005-49	3010-00-166-4322	31	1
89413	501015-13A	3820-00-166-4323	30	1
89413	501016-103		18	15
89413	501023-12		10	30
89413	501029-77		11	1
89413	501046-5		18	1
			18	11
89413	501052-42	4820-00-237-4029	23	1
89413	501075-16		10	1
89413	501083-29		10	2
89413	501086-1		32	11
89413	501099-8		33	12
89413	502002-63		37	1
89413	502020-60	6105-00-138-5418	35	1
89413	502049-9		37	16
01887	590401871125		23	27
30327	60SA-08X12	4730-00-679-1686	27	27
30327	60SA-16X16	4730-00-278-2678	27	10
30327	60SA-16X20	4730-01-351-8103	27	26
30327	60SA-24X24	4730-01-139-1652	27	4
30327	60SA-32X32	4730-01-345-8681	27	12
30327	60UA-12X12	4730-00-840-3345	27	6
30327	60UA-16X16	4730-00-288-9785	27	14
30327	60UA-20X16	4730-01-354-2636	27	16
30327	60UA-20X20	4730-00-957-2417	27	15
02249	6721	3820-00-237-9353	11	47
19207	7044253	5360-00-704-4253	7	6
19207	7524316	5315-00-752-4316	7	5
19207	8380196	2540-01-023-5116	7	7
19207	8765721		7	2
15840	9-3216-31		2	41
89413	900020-1		23	15
89413	900020-106		1	27
			5	12
89413	900020-12		10	31
89413	900020-123		35	27
89413	900020-215		26	1
89413	900020-23		10	23
			23	35
89413	900020-24		37	7
			1	29
			11	48
			25	15
			39	21
89413	900020-25		39	30
89413	900020-3		23	24
89413	900020-33		10	27
83179	900020-35		1	26
			5	1

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
89413	900020-4		30	14
89413	900020-403		31	18
89413	900020-409		34	21
89413	900020-45		11	51
			41	27
			46	14
89413	900020-64		1	12
89413	900020-84		39	23
89413	900020-97		40	15
89413	90002033		10	21
89413	900042-175		8	11
89413	900042-554		2	24
89413	900054-560		39	13
89413	900057-562		39	33
89413	900057-571		8	7
89413	900085-5		1	13
			3	3
89413	900085-7		8	6
89413	900160-11		4	12
89413	900160-5		11	53
			39	27
89413	900160-6		11	50
			26	4
			30	23
			41	16
			46	12
89413	900160-7		1	24
			5	10
			39	1
89413	900160-9		8	10
			39	3
89413	90020-157		40	10
89413	900212-5		32	18
89413	900235-53		35	5
89413	900244-108		46	23
89413	900302-1		23	14
89413	900302-10		4	13
89413	900302-116		1	23
			5	11
89413	900302-120		8	9
89413	900302-129		10	32
89413	900302-3		23	23
			31	17
			35	26
			37	3
89413	900302-4		1	14
			2	23
			3	2
			11	52
			25	16
			30	13

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
89413	900302-4		35	6
			39	22
89413	900302-5		8	5
89413	900302-52		10	24
89413	900302-59		37	18
89413	900302-6		39	2
89413	900302-60		1	30
			2	29
			10	20
89413	900302-62		34	20
89413	900302-64		1	25
			5	2
			11	49
			26	3
			30	22
			41	28
			46	13
89413	900306-2		10	45
89413	900306-4		23	10
89413	900306-7		46	24
89413	900388-160		12	30
			14	24
			16	27
75477	900402-12		25	12
89413	900490-19		40	1
89413	900490-84		34	7
89413	900502-173		35	8
89413	900502-45		33	18
89413	900502-65		2	35
89413	900509-32		10	43
89413	900583-147		35	7
89413	900597-13		40	12
89413	900597-14		40	14
89413	900597-3		25	11
89413	900610-16		46	22
89413	900886-33		31	4
89413	900906-188		34	12
ODP42	900906-393	3110-01-353-2579	36	31
89413	900970-1		31	22
89413	900970-81		31	9
89413	900970-83		2	15
89413	901023-5		30	4
89413	901023-6		21	9
83179	901023-9		21	12
89413	901046-27	4730-00-278-3768	19	7
89413	901046-6		19	6
			20	7
89413	901046-7	46730-00-246-9220	18	9
			19	9
89413	901046-8	4730-00-246-9221	18	6
89413	901158-17		18	16

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
89413	901160-13		20	1
89413	901176-132		21	15
89413	901204-3		37	12
83179	901204-4	4730-00-980-0912	2	27
			35	30
89413	901220-7		37	6
89413	901225-4		35	28
89413	901241-71		3	14
			4	8
89413	901244-255		10	34
89413	901348-13		1	11
89413	901359-13		1	10
89413	901623-24		21	7
89413	901848-606		10	18
89413	901921-3		2	34
89413	901921-4		1	28
89413	901930-2		12	12
89413	901930-4		12	2
			14	8
			15	8
			16	7
			17	8
89413	901930-6		12	3
			15	9
			16	8
89413	902085-10	BULK		9
19207	902085-10-01		13	3
89413	902085-16	BULK		10
19207	902085-16-01		13	9
89413	902085-8	BULK		8
19207	902085-8-001		13	5
19207	902085-8-01		20	10
19207	902085-8-1		22	3
89413	902095-125		2	13
89413	902095-150		31	2
89413	902095-175		31	13
89413	902095-250		39	18
89413	902109-237		8	17
89413	902109-315		2	20
89413	902109-475		1	4
			2	4
89413	902224-106		23	11
89413	902224-115		2	30
89413	902224-49		30	3
89413	902224-73		35	34
89413	902224-755		10	46
89413	902224-889		46	20
83179	902277-11		25	3
			32	22
83179	902277-13		1	36
89413	902277-15		32	12

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
89413	902277-27		3	13
89413	902277-3		32	14
89413	902277-52		2	40
89413	902298-19		15	20
89413	902298-7		1	39
89413	902301-27		12	24
			16	21
89413	902301-4		12	18
			16	15
89413	902301-8		12	15
89413	902301-9		16	2
83179	902466-1225		18	8
89413	902772-115		30	21
89413	903136-36		4	5
89413	903137-19		14	20
			15	21
89413	903137-27		12	25
			16	22
89413	903347-23		12	6
			12	33
			14	10
			15	12
			16	11
			17	10
89413	903458-6		2	21
89413	903540-26		39	28
89413	903995-10		BULK	11
19207	903995-10-01		13	20
89413	904015-16		13	10
89413	904015-6		22	4
89413	904015-3		13	6
			22	1
89413	904051-10		13	16
89413	904341-27		15	2
89413	904584-19		35	22
89413	904584-36		31	20
89413	904584-42		1	17
89413	904584-64		33	11
89413	904685-106		1	33
89413	904685-108		23	16
89413	904685-144		38	10
89413	904685-152		39	6
			46	5
89413	904685-160		8	3
			38	8
89413	904685-174		46	9
89413	904685-189		34	19
89413	904685-20		34	14
89413	904889-41		8	15
89413	905329-32	4730-00-401-0101	18	7
89413	905477-287		8	13

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CAGEC	PART NUMBER	PART NUMBER INDEX	FIG.	ITEM
		STOCK NUMBER		
89413	906156-1010		18	14
			21	1
89413	906156-1034		18	12
89413	906156-2020		18	3
			19	8
89413	906161-32		21	2
89413	906365-6		25	5
89413	906512-137		34	13
89413	907254-102		13	14
89413	907254-108		13	21
89413	907304-66	4730-00-405-6282	22	5
89413	907304-86		13	8
89413	907919-10		13	2
ODP42	910660-0111	5330-00-559-2632	36	6
89413	910660-214		2	38
89413	910751-1010		13	19
ODP42	92278-0009	5330-01-354-4161	36	13
05554	928-001		11	45
02249	929	5315-00-308-2413	11	18
89413	940009-304		10	35
89413	940016-203	3110-00-516-5289	31	24
89413	940016-206	3110-00-554-3197	31	15
23803	940021-208		2	26
23803	940022-208		2	19
89413	940031-309		31	12
89413	940047-207		30	19
60038	960004-1		1	8

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FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
BULK	1		89413
BULK	2		89413
BULK	3		89413
BULK	4		89413
BULK	5		89413
BULK	6		89413
BULK	7		89413
BULK	8		89413
BULK	9		89413
BULK	10		89413
BULK	11		89413
BULK	12	4010-00-179-0768	81348
KITS			RR271
KITS			K213
KITS			ODP42
KITS			89413
KITS			1139001-21
	1		89413
	2		3139577-19
	3	3110-00-293-8998	89413
	4		3139774-8
	5		89413
	6		3139237-117
	7		89413
	8		1139493-53
	9		HM212049
	10		902109-475
	11		89413
	12		1139185-44
	13		92798
	14		1324OLDSHIL5
	15		89413
	16		1139253-63
	17		89413
	18		60038
	19		960004-1
	20	5310-00-179-9394	60038
	21		K91513
	22		89413
	23		901359-13
	24		89413
	25		901348-13
	26		89413
	27		900020-64
	28		89413
	29		900085-5
	30		89413
	31	4730-00-050-4208	900302-4
	32		89413
	33		1139417-26
			89413
			1139301-14
			89413
			3139301-15
			89413
			904584-42
			89413
			1139389-65
			89413
			3139081-103
			89413
			1139125-121
			96906
			MHS15003-1
			89413
			1139081-103
			89413
			900302-116
			89413
			900160-7
			89413
			900302-64
			83179
			900020-35
			89413
			900020-106
			89413
			901921-4
			89413
			900020-24
			89413
			900302-60
			96906
			MS18154-60
			89413
			1139281-54
			89413
			1139281-55
			89413
			904685-106

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FIGURE AND ITEM NUMBER INDEX
STOCK NUMBER

FIG.	ITEM	CAGEC	PART NUMBER
1	34	89413	1139105-154
1	35	89413	1139241-27
1	36	83179	902277-13
1	37	89413	16402CM
1	38	89413	1139125-127
1	39	89413	902298-7
1	40	89413	1139495-13
2	1	08162	R1211TS
2	2	89413	1139253-64
2	3	43334	1213RTS
2	4	89413	902109-475
2	5	89413	AA1212-Z
2	6	89413	1139182-14
2	7	23803	213SZ
2	8	21335	P9105KE6569
2	9	89413	1139253-62
2	10	89413	1139389-63
2	11	89413	1139253-61
2	12	89413	1139145-4
2	13	89413	902095-125
2	14	89413	3139225-20
2	15	89413	900970-83
2	16	89413	1139493-52
2	17	89413	1139225-10
2	18	89413	3139061-3
2	19	23803	940022-208
2	20	89413	902109-315
2	21	89413	903458-6
2	22	89413	1139301-16
2	22	89413	1139301-17
2	23	89413	900302-4
2	24	89413	900042-554
2	25	89413	154787
2	26	23803	940021-208
2	27	4730-00-980-0912	83179
2	28	89413	901204-4
2	29	89413	1139285-21
2	30	89413	900302-60
2	31	5305-00-543-4372	89413
2	32	80204	902224-115
2	32	89413	81821BH038CO75N
2	33	89413	1139409-7
2	34	89413	1139409-8
2	35	89413	1139185-45
2	36	89413	901921-3
2	37	89413	900502-65
2	38	89413	1139369-16
2	39	89413	3139398-61
2	40	89413	910660-214
2	41	89413	1139398-61
3	1	15840	902277-52
		89413	9-3216-31
		89413	3139237-119

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FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
3	2		89413
3	3		89413
3	4	5305-00-071-2069	96906
3	5		89413
3	6		89413
3	7		89413
3	8	4730-00-172-0010	96906
3	9		89413
3	10	3120-01-247-9428	89413
3	11		89413
3	12		89413
3	13		39413
3	14		89413
3	15	4730-00-172-0031	96906
4	1		89413
4	2		89413
4	3		89413
4	4		89413
4	5		89413
4	6		89413
4	7		89413
4	8		89413
4	9		89413
4	10		89413
4	11		89413
4	12		89413
4	13		89413
4	14		89413
4	15	4730-00-172-0010	96906
4	16		89413
5	1		83179
5	2		89413
5	3		89413
5	4	4730-00-050-4208	96906
5	5		89413
5	6		89413
5	7		92798
5	8		89413
5	9		89413
5	10		89413
5	11		89413
5	12		89413
6	1		89413
6	2		89413
6	3		89413
6	4		89413
7	1	2540-00-835-9039	96906
7	2		19207
7	3	4730-00-050-4203	96906
7	4	5365-00-803-7301	96906
7	5	5315-00-752-4316	19207
			7524316

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
7	6	5360-00-704-4253	19207
7	7	2540-01-023-5116	19207
7	8		19207
7	9	4030-00-916-2141	96906
7	10	5315-00-243-1169	80020
8	1	4730-00-050-4208	96906
8	2		89413
8	3		89413
8	4		89413
A	5		89413
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8	15		89413
8	16		51588
8	17		89413
8	18		89413
8	19		89413
9	1	9905-01-354-3506	0DP42
9	2	9905-01-354-3507	00P42
9	3	9905-01-356-2746	00P42
10	1		89413
10	2		89413
10	3		89413
10	4		89413
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10	10		22681
10	11		89413
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10	18		89413
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10	20		89413
10	21		89413
10	22		89413
10	23		89413
10	24		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
10	25	4730-00-246-9218	30379	141621
10	26	4730-00-188-1901	96906	MS51953-109B
10	27		89413	900020-33
10	28	4730-00-246-9188	72532	119095
10	29	5310-00-732-0558	96906	MS51967-8
10	30		89413	501023-12
10	31		89413	900020-12
10	32		89413	900302-129
10	33		89413	1139235-14
10	34		89413	901244-255
10	35		89413	940009-304
10	36		89413	1139400-157
10	37		89413	1139453-10
10	38		89413	1139389-100
10	39		89413	1139517-53
10	40		89413	1139517-15
10	41		89413	1139035-7
10	42		89413	3139305-5
10	43		89413	900509-32
10	44		89413	1139235-15
10	45		89413	900306-2
10	46		69413	902224-755
10	47		89413	1139389-104
11	1		89413	501029-77
11	2		02249	1880
11	3		02249	1865
11	4		02249	458
11	5	5365-00-458-2177	02249	459
11	6	5365-00-487-5331	02249	462
11	7		02249	1881
11	8		02249	1883
11	9		02249	2907
11	10		02249	1890
11	11	5330-00-921-6775	02249	1615
11	12	5330-00-163-6945	02249	1851
11	13		02249	1863
11	14	5330-00-774-6554	79150	1862
11	15		02249	1802
11	16	5305-00-166-8748	02249	1808
11	17		02249	086
11	18	5315-00-308-2413	02249	929
11	19	5330-00-399-6984	66289	QD631
11	20		02249	1845
11	21	5310-00-166-8600	02249	1856
11	22		02249	1830
11	23	4820-01-158-9223	79470	1421
11	24		95019	1858
11	25	5330-00-518-6194	02249	2709
11	26	5330-00-484-1812	02249	1621
11	27	2530-00-630-3677	02249	1804
11	28	5330-00-792-6217	02249	1129

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
11	29		02249
11	30	3040-00-237-4011	02249
11	31	5310-01-132-0955	02249
11	32		02249
11	33	4820-00-630-3770	02249
11	34		02249
11	35	5330-00-887-0010	02249
11	36		02249
11	37	5330-00-906-1616	02249
11	38	5330-00-906-1617	02249
11	39	5330-00-906-1615	02249
11	40		02249
11	41	4820-00-087-6367	02249
11	42		02249
11	43	4730-00-237-3994	02249
11	44		02249
11	45		05554
11	46	5330-00-484-1813	02249
11	47	3820-00-237-9353	02249
11	48		89413
11	49		89413
11	50		89413
11	51		89413
11	52		89413
11	53		89413
11	54		89413
12	1		89413
12	2		89413
12	3		89413
12	4		89413
12	5		89413
12	6		89413
12	7		89413
12	8		89413
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12	11		89413
12	12		89413
12	13		89413
12	14		89413
12	15		89413
12	16		89413
12	17		92852
12	18		89413
12	19		89413
12	20		89413
12	21		89413
12	22	5330-01-248-4434	89413
12	23	5330-01-247-1082	89413
12	24		89413
12	25		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
12	26		89413
12	27	2590-01-244-9516	89413
12	28		89413
12	29		89413
12	30		89413
12	31		89413
12	32		89413
12	33		89413
13	1	4730-01-156-4835	46717
13	2		89413
13	3		19207
13	4		89413
13	5		19207
13	6		89413
13	7	4730-00-555-1764	96906
13	8		89413
13	9		19207
13	10		89413
13	11	4730-00-231-3019	96906
13	12		89413
13	13		89413
13	14		89413
13	15	4730-00-906-0721	30780
13	16		89413
13	17	4730-00-852-4308	27315
13	18	4730-00-878-2824	01276
13	19		89413
13	20		19207
13	21		89413
13	22	4730-00-081-5893	01276
13	23	2940-00-845-4960	73370
14	1	3895-00-167-6877	89413
14	2		89413
14	3		89413
14	4		89413
14	5		89413
14	6		89413
14	7		89413
14	8		89413
14	9		89413
14	10		89413
14	11		89413
14	12		89413
14	13		89413
14	14		89413
14	15		89413
14	16		89413
14	17		89413
14	18		89413
14	19		89413
14	20		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
14	21		89413
14	22		89413
14	23		89413
14	24		89413
14	25		89413
15	1		89413
15	2		89413
15	3		89413
15	4		90407
15	5		89413
15	6		89413
15	7		89413
15	8		89413
15	9		89413
15	10		89413
15	11		89413
15	12		89413
15	13		89413
15	14		89413
15	15		89413
15	16		89413
15	17		89413
15	18	5330-01-247-1119	89413
15	19		89413
15	20		89413
15	21		89413
15	22		89413
15	23		89413
15	24	5365-01-248-1605	89413
15	25		89413
16	1		89413
16	2		89413
16	3		89413
16	4		89413
16	5		89413
16	6		89413
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16	9		89413
16	10		89413
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16	12		89413
16	13		89413
16	14		92852
16	15		89413
16	16		89413
16	17		89413
16	18		89413
16	19		89413
16	20		89413
16	21		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
16	22		89413
16	23		89413
16	24		89413
16	25		89413
16	26		89413
16	27		89413
16	28		89413
17	1		89413
17	2		89413
17	3		89413
17	4		89413
17	5		89413
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17	7		89413
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17	17		89413
17	18		89413
17	19		89413
17	20		89413
17	21		89413
18	1		89413
18	2	4730-00-246-9218	97403
18	3		89413
18	4		89413
18	5		19207
18	6	4730-00-246-9221	89413
18	7	4730-00-401-0101	89413
18	8		83179
18	9	4730-00-246-9220	89413
18	10	4730-00-246-9218	30379
18	11		89413
18	12		89413
18	13		19207
18	14		89413
18	15		89413
18	16		89413
18	17		19207
19	1		89413
19	2	4730-00-965-6538	98441
19	3		89413
19	4		19207
19	5		19207
19	6		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
19	7	4730-00-278-3768	89413	901046-27
19	8		89413	906156-2020
19	9	4730-00-246-9220	89413	901046-7
20	1		89413	901160-13
20	2	4730-00-965-6538	98441	0188-12-12
20	3		70847	J305
20	4		19207	1599W3-01
20	5	4730-00-496-2700	05643	NP5002005
20	6	4730-00-401-0135	70847	E036
20	7		89413	901046-6
20	8	4730-00-246-9218	30379	141621
20	9	4730-00-813-9611	96906	MS51500A8
20	10		19207	902085-8-01
21	1		89413	906156-1010
21	2		89413	906161-32
21	3		63906	24-120243
21	4		89413	1139864
21	5		89413	1139863
21	6		19207	1599W4-01
21	7		89413	901623-24
21	8		89413	3139557-39
21	9		89413	901023-6
21	10		19207	1599W8-01
21	11	4730-00-193-2702	91340	MPD9484-58-13
21	12		83179	901023-9
21	13		19207	1599W4-31-01
21	14		19207	1599W6-01
21	15		89413	901176-132
21	16	4730-00-246-9222	29510	187154
22	1		89413	904015-8
22	2	4730-00-322-8457	96906	MSS51500A6-6
22	3		19207	902085-8-1
22	4		89413	904015-6
22	5	4730-00-405-6282	89413	907304-66
22	6	4730-00-988-1714	96906	MS20826-6
23	1	4820-00-237-4029	89413	501052-42
23	2		89413	3139213-6
23	3		89413	1139281-106
23	4		89413	1139389-200
23	5		89413	1139400-257
23	6		89413	1139581-109
23	7		89413	1139085-60
23	8		89413	1139085-46
23	9		89413	1139353-33
23	10		89413	900306-4
23	11		89413	902224-106
23	12		89413	1139085-66
23	13		89413	1139581-134
23	14		89413	900302-1
23	15		89413	900020-1
23	16		89413	904685-108

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
23	17		01887
23	18		01887
23	19		01887
23	20		01887
23	21		01887
23	22		01887
23	23		89413
23	24		89413
23	25	5315-00-271-7523	96906
23	26		01887
23	27		01887
23	28		01887
23	29		01887
23	30		01887
23	31		01887
23	32		01887
23	33		01887
23	34		01887
23	35		89413
24	1		89413
25	1	3820-00-167-4277	89413
25	2		89413
25	3		83179
25	4		89413
25	5		89413
25	6		89413
25	7		89413
25	8		89413
25	9		89413
25	10		89413
25	11		89413
25	12		75477
25	13		89413
25	14		80996
25	15		89413
25	16		89413
25	17		89413
25	18		89413
25	19		89413
26	1		89413
26	2		89413
26	3		89413
26	4		89413
27	1	4720-01-353-7423	ODP42
27	2	4720-01-353-7424	00P42
27	3	4720-01-353-7425	ODP42
27	4	4730-01-139-1652	30327
27	5	4730-00-496-2700	05643
27	6	4730-00-840-3345	30327
27	7	4720-01-353-7428	00P42
27	8	4730-01-214-8932	96906
			MS51846-96

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FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
27	9	4730-01-352-2467	ODP42	22050
27	10	4730-00-278-2678	30327	60SA-16X16
27	11	4730-01-361-2272	ODP42	20740
27	12	4730-01-345-8681	30327	60SA-32X32
27	13	6685-01-355-3403	00P42	22070
27	14	4730-00-288-9785	30327	60UA-16X16
27	15	4730-00-957-2417	30327	60UA-20X20
27	16	4730-01-354-2636	30327	60UA-20X16
27	17	4730-01-352-2272	00P42	22170
27	18	4730-01-355-0442	ODP42	22160
27	19	4730-00-839-8794	80996	21392000PSIIX14
27	20	4730-01-025-6805	98441	2503-4-4
27	21	4720-01-355-0460	ODP42	22200
27	22	4730-00-289-5484	96906	MS51500A4-4
27	23	4810-01-355-7796	D00P42	22140
27	24	4720-01-353-7426	00P42	20690
27	25	4720-01-353-7427	00DP42	20710
27	26	4730-01-351-8103	30327	60SA-16X20
27	27	4730-00-679-1686	33327	60SA-08X12
27	28	4820-01-354-2730	00P42	22150
27	29	4730-00-196-1468	96906	MS51953-97
27	30	4730-00-289-5176	81348	WW-P-471ACABUD
27	31	4730-00-044-4715	15434	S962
28	1		ODP42	20380
28	2	4820-01-356-0826	ODP42	SA-4702-69L
28	3		ODP42	4702-24L
28	4	5355-01-356-2029	ODP42	P-1001-10D
28	5	3020-01-041-2622	97902	4302-83
28	6	5305-01-354-7676	ODP42	PSS-1032-04
28	7	4330-01-354-0488	ODP42	4702-19L
28	8		ODP42	4702-18L
28	9	5330-01-353-5986	ODP42	P-1000-12
28	10	5315-01-353-5956	00P42	4302-27
28	11	5340-01-353-5265	ODP42	4702-23L
28	12	5305-01-354-7667	ODP42	PAS-2528-16
28	13	4820-01-356-3607	00P42	VZL-2711
28	14	5330-00-482-4630	00P42	P-1000-17
28	15	5340-01-353-5283	ODP42	3701-02-28B
28	16	5330-01-022-5489	ODP42	P-1100-17
28	17	5330-00-997-9027	00DP42	P-1004-02
28	18	5330-01-173-0969	ODP42	4702-43
28	19	3120-01-172-6423	ODP42	4702-04
28	20	5330-01-040-4773	ODP42	P-1000-25
28	21		ODP42	2711-01
28	22	3120-01-251-2001	00DP42	4702-33
28	23	5330-01-353-9380	ODP42	P-1100-21
28	24	4820-01-356-0827	ODP42	SA-4702-82
28	25		ODP42	4702-02A
28	26		ODP42	4702-57
28	27	5305-01-354-767	ODP42	PAS-2528-16
28	28		ODP42	4702-58A

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FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
28	29		ODP42
28	30	5305-01-251-5417	80205
28	31		ODP42
28	32	5305-01-142-4872	80205
28	33	5310-00-407-9566	96906
28	34	5310-00-880-7744	96906
28	35	5310-00-768-0318	96906
28	36	5310-00-584-5272	96906
28	37		ODP42
29	1	5340-01-355-5283	00DP42
29	2	5305-01-355-8260	ODP42
29	3	4820-01-355-8943	ODP42
29	4	5330-00-159-3177	00P42
29	5		ODP42
29	6	5305-01-355-8272	ODP42
29	7	5340-01-355-5207	OOP42
29	8	5365-01-355-6740	ODP42
29	9		ODP42
29	10	5355-01-356-2029	ODP42
29	11	3040-01-353-7535	ODP42
29	12	5310-00-215-1418	ODP42
29	13		ODP42
29	14	5330-00-482-4629	ODP42
29	15	5340-00-483-2594	00P42
29	16	5330-00-159-3177	ODP42
29	17	5365-00-270-0683	ODP42
29	18	5330-00-482-4630	ODP42
29	19		ODP42
29	20	5330-00-080-9639	00P42
29	21	5340-01-355-5281	00P42
29	22	5330-00-159-3171	00P42
29	23		00P42
29	24	5310-00-215-1418	ODP42
29	25	5340-01-353-1988	00P42
29	26	3040-01-353-7639	ODP42
29	27	5305-01-352-2008	00P42
29	28	5315-01-352-7447	ODP42
29	29		00P42
29	30	5305-01-353-8319	ODP42
30	1	3820-00-166-4323	89413
30	2	5310-00-595-7237	96906
30	3		89413
30	4		89413
30	5		89413
30	6		89413
30	7	4730-00-246-9218	30379
30	8		89413
30	9		89413
30	10		89413
30	11		89413
30	12		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
30	13		89413
30	14		89413
30	15	5365-00-579-5983	20859
30	16		89413
30	17		89413
30	18		89413
30	19		89413
30	20		89413
30	21		89413
30	22		89413
30	23		89413
31	1	3010-00-166-4322	89413
31	2		89413
31	3		89413
31	4		89413
31	5		89413
31	6		89413
31	7		89413
31	8	4730-00-172-0010	96906
31	9		89413
31	10		89413
31	11		89413
31	12		89413
31	13		89413
31	14		89413
31	15	3110-00-554-3197	89413
31	16		89413
31	17		89413
31	18		89413
31	19		89413
31	20		89413
31	21		89413
31	22		89413
31	23		89413
31	24	3110-00-516-5289	89413
32	1		89413
32	2		89413
32	3		89413
32	4		83179
32	5		89413
32	6		89413
32	7		89413
32	8	4730-00-813-9611	96906
32	9		89413
32	10		89413
32	11		89413
32	12		89413
32	13		89413
32	14		89413
32	15		89413
32	16		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
32	17		89413
32	18		89413
32	19		89413
32	20		89413
32	21		83179
32	22		83179
32	23		89413
32	24		89413
32	25		89413
32	26		89413
32	27		89413
32	28		32537
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33	8		89413
33	9		89413
33	10		89413
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33	12		89413
33	13		89413
33	14		89413
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33	16		89413
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33	18		89413
33	19		89413
33	20		89413
33	21		89413
33	22		89413
34	1		89413
34	2		89413
34	3		89413
34	4	3110-00-990-8236	03743
34	5	4730-00-809-9427	96906
34	6	4730-00-965-6538	98441
34	7		89413
34	8		89413
34	9		89413
34	10		89413
34	11		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
34	12		89413
34	13		89413
34	14		89413
34	15		89413
34	16		89413
34	17		89413
34	18		89413
34	19		89413
34	20		89413
34	21		89413
34	22		89413
34	23		89413
34	24		89413
34	25		89413
34	26		89413
34	27		89413
34	28		83179
35	1	6105-00-138-5418	89413
35	2	3110-00-554-6030	35301
35	3		89413
35	4		89413
35	5		89413
35	6		89413
35	7		89413
35	8		89413
35	9		89413
35	10		89413
35	11		89413
35	12		89413
35	13		89413
35	14		89413
35	15		89413
35	16		89413
35	17		89413
35	18		89413
35	19		89413
35	20		89413
35	21		89413
35	22		89413
35	23		89413
35	24		89413
35	25		89413
35	26		89413
35	27		89413
35	28		89413
35	29		89413
35	30	4730-00-980-0912	83179
35	31		89413
35	32		89413
35	33		89413
35	34		89413

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
36	1	3820-01-356-9101	00P42	06296004
36	2	5365-01-355-1105	ODP42	1139027-0019
36	3	4710-01-354-9271	ODP42	01820008
36	4	5310-00-809-5997	96906	MS27183-17
36	5	5330-01-353-9557	ODP42	1139373-0111
36	6	5330-00-559-2632	ODP42	910660-0111
36	7	5330-01-353-9556	00DP42	1139477-0107
36	8		ODP42	06430006
36	9	5315-01-353-7024	ODP42	0904685-0198
36	10		ODP42	06200016
36	11		ODP42	1139001-0184
36	12	5306-01-354-5733	ODP42	06570016
36	13	5330-01-354-4161	00P42	92278-0009
36	14	4810-01-354-5438	ODP42	06510026
36	15		00P42	06180009
36	16		00P42	06200015
36	17	4730-00-050-4208	96906	MS15003-1
36	18		ODP42	01320007
36	19	5330-01-353-9546	00P42	1139241-0139
36	20		ODP42	1139400-0338
36	21	5310-00-584-5272	96906	MS35338-48
36	22	5305-00-071-2067	96906	MS90728-111
36	23	3110-01-354-8792	00P42	1139775-0029
36	24	3120-01-355-2661	ODP42	3139449-0084
36	25	3110-01-353-4480	00DP42	0960023-0001
36	26		ODP42	1139353-0065
36	27	5305-00-071-2075	96906	MS90728-119
36	28	5330-01-353-9542	00P42	06470008
36	29		00P42	1139400-0340
36	30		ODP42	1139305-0019
36	31	3110-01-353-2579	00DP42	900906-393
36	32		ODP42	1139253-0208
36	33		ODP42	1139400-0541
36	34		ODP42	0904581-0091
36	35		ODP42	1139253-0212
36	36		00P42	3139145-0032
36	37		00DP42	1139369-0153
36	38	3040-01-354-9063	ODP42	1139493-0194
36	39	3020-01-352-9117	ODP42	3139253-0427
36	40	3120-01-353-2639	00P42	1139509-0116
36	41		00P42	1139437-0230
36	42	3110-00-159-7131	60380	J68
36	43	3120-01-355-1003	00P42	1139125-0376
36	44	3020-01-353-8542	ODP42	1139253-0209
36	45		00DP42	1139493-0157
36	46		ODP42	1139235-0037
36	47	3120-01-354-9778	ODP42	1139125-0379
36	48	3110-01-352-8208	ODP42	1139775-0030
36	49	5330-01-354-3737	ODP42	1139024-0088
36	50		ODP42	1139185-0277
36	51	3120-01-353-2640	ODP42	1139125-0445

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
36	51	3120-01-353-2687	00P42	3139125-0520
36	52		ODP42	1139141-0260
36	53	5310-01-046-3910	0DP42	0903535-1216
36	54	5310-01-354-3730	00P42	1139517-0188
36	55		00P42	1139185-0278
36	56	3460-01-356-7991	ODP42	1139004-0078
37	1		89413	502002-63
37	2	5305-00-543-4372	80204	B1821BH038C075N
37	3		89413	900302-3
37	4		89413	155812
37	5		89413	A155798A
37	6		89413	901220-7
37	7		89413	900020-23
37	8	5310-00-732-0558	96906	MS51967-8
37	9		89413	155806
37	10		89413	155799
37	11	4730-00-172-0028	96906	MS15003-4
37	12		89413	901204-3
37	13		89413	155805
37	14		89413	155807A
37	15		89413	155608
37	16		89413	502049-9
37	17	5306-00-637-9675	96906	MS35307-332
37	18		89413	900302-59
37	19	5315-00-838-4584	96906	MS16562-66
38	1		89413	1139393-140
38	2		89413	3139573-7
38	3		89413	3139093-102
38	4		89413	1139493-124
38	5	4730-00-172-0031	96906	MS15003-5
38	6		89413	3139553-256
38	7	4730-00-050-4208	96906	MS15003-1
38	8		89413	904685-160
38	9		89413	1139393-104
38	10		89413	904685-144
39	1		89413	900160-7
39	2		89413	900302-6
39	3		89413	900160-9
39	4	4730-00-050-4208	96906	MS15003-1
39	5		89413	1139389-164
39	6		89413	904685-152
39	7		89413	3139617-60
39	8		89413	3139521-55
39	9	3110-00-117-0692	59690	P18244
39	10	5365-00-804-7647	96906	MS16624-4059
39	11		80201	15084
39	12		89413	1139125-314
39	13		89413	900054-560
39	14		89413	A13858-397
39	15		89413	1139345-21
39	16		89413	1139345-18

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
39	17		89413
39	18		89413
39	19		89413
39	20		89413
39	21		89413
39	22		89413
39	23		89413
39	24	5305-00-071-2069	96906
39	25		89413
39	26		89413
39	27		89413
39	28		89413
39	29		89413
39	30		89413
39	31		89413
39	32		89413
39	32		89413
39	33		89413
39	34		96906
40	1		89413
40	2		89413
40	3		89413
40	4		89413
40	5		89413
40	6		89413
40	7		89413
40	8		89413
40	9		89413
40	10		89413
40	11		89413
40	12		89413
40	13		89413
40	14		89413
40	15		89413
41	1	4010-01-352-9755	ODP42
41	2	3020-01-356-6840	ODP42
41	3		ODP42
41	4		0ODP42
41	5	5310-00-809-5997	96906
41	6	5310-00-225-6993	96906
41	7	3040-01-355-0546	ODP42
41	8	5305-00-947-4356	96906
41	9	5310-00-838-1702	96906
41	10	3040-01-352-6064	ODP42
41	11	5305-00-725-0168	96906
41	12	3020-01-352-9178	ODP42
41	13	3120-01-353-2641	ODP42
41	14	4730-00-172-0034	96906
41	15	5305-00-071-2071	96906
41	16		89413
41	17	5365-01-355-9455	ODP42

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
41	18	5310-00-768-0318	96906	MS51967-14
41	19	5310-00-584-5272	96906	MS35338-48
41	20	3040-01-352-2311	ODP42	20500
41	21	5310-00-269-4040	96906	MS51922-49
41	22	5310-01-160-3980	90598	MAL90356-5
41	23	5310-00-823-8803	96906	MS27183-21
41	24	5305-00-724-7222	96906	MS90728-164
41	25		ODP42	20490
41	26		ODP42	20480
41	27		89413	900020-45
41	28		89413	900302-64
41	29		ODP42	20360
41	30	5365-01-356-6165	ODP42	20350
41	31	5310-00-820-6653	96906	MS35338-50
41	32	5310-00-763-8920	96906	MS51967-20
42	1	4010-01-352-9755	ODP42	20140
42	2	5310-00-409-3333	96906	MS51943-45
42	3		ODP42	20020
42	4	5365-01-355-9454	ODP42	20060
42	5	5365-01-353-4559	ODP42	20070
42	6	3465-01-355-4483	ODP42	20080
42	7	5305-00-922-7994	96906	MS90728-189
42	8	5305-00-947-4354	96906	MS90728-191
42	9	5305-00-782-9489	96906	MS90728-66
42	10	5310-00-637-9541	96906	MS35338-46
42	11	3020-01-353-8799	ODP42	20030
43	1	5305-00-071-2073	96906	MS90728-117
43	2		ODP42	20510
43	3	5306-01-352-3158	ODP42	20560
43	4	5310-01-353-2674	ODP42	20550
43	5	5360-01-354-8888	ODP42	20540
43	6	5310-00-823-8803	96906	MS27183-21
43	7	5310-00-409-3333	96906	MS51943-45
43	8		ODP42	20520
43	9	5310-00-820-6653	96906	MS35338-50
43	10	5305-00-724-7218	96906	MS90728-158
44	1	5315-01-352-4283	ODP42	20460
44	2	5305-00-725-0168	96906	MS51963-137
44	3	3020-01-352-9179	00DP42	20470
44	4	5305-00-724-7222	96906	MS90728-164
44	5	5310-00-820-6653	96906	MS35338-50
44	6		ODP42	20450
44	7		03P42	20450-2
44	8	5315-01-352-7431	ODP42	AB138D
44	9	5330-01-352-7458	ODP42	21190
44	10	5305-01-351-7838	ODP42	21200
44	11	5310-01-353-2667	00P42	21210
44	12	5330-01-352-7575	ODP42	21180
44	13	5330-01-353-9397	ODP42	20890
44	14		ODP42	20860
44	15	5315-01-355-3635	ODP42	20950

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		
		STOCK NUMBER	CAGEC	
44	16	3040-01-352-3777	ODP42	20930
44	17	3110-01-353-4478	ODP42	20980
44	18	3110-01-353-4481	ODP42	20970
44	19	5330-01-355-8615	ODP42	20990
44	20	5330-01-353-9398	ODP42	20920
44	21		ODP42	20910
44	22	5310-01-355-9957	ODP42	21010
44	23	5305-01-355-8261	ODP42	21000
44	24	5305-01-355-8262	0ODP42	21050
44	25		ODP42	21060
44	26	5340-01-355-5232	ODP42	21120
44	27	5340-01-355-5198	ODP42	21070
44	28	5305-01-355-8283	00P42	21090
44	29	5310-01-355-9958	ODP42	21100
44	30		ODP42	21110
44	31		ODP42	20870
44	32	5330-01-354-6412	ODP42	21080
44	33		ODP42	21140
44	34	3110-01-353-4482	0ODP42	21150
44	35	3110-01-353-4479	ODP42	21160
44	36		00OP42	21170
44	37	3040-01-352-3778	00P42	21130
44	38	4730-01-355-8941	ODP42	21030
44	39	5365-01-355-6765	ODP42	20960
44	40	3020-01-352-9119	ODP42	20940
44	41		ODP42	20900
44	42	5340-01-355-5226	ODP42	21020
44	43	5310-00-637-9541	96906	MS35338-46
44	44	5305-00-068-0510	96906	MS90723-60
44	45		00P42	20450-1
45	1	5340-01-353-3590	ODP42	AG405
45	2	5330-01-352-7497	00P42	AG406
45	3	3110-01-176-7775	00P42	AD802
45	4		ODP42	AB941A
45	5		ODP42	AD821A
45	6	5330-00-108-1130	ODP42	A0788
45	7	4320-01-354-1287	ODP42	AD795A
45	8	5360-00-106-4389	24123	AD796A
45	9		ODP42	AD822
45	10		ODP42	AE807
45	11	5305-00-988-1725	96906	MS35206-281
45	12	6105-01-353-2279	00P42	AD816
45	13	5330-01-352-7462	ODP42	AC827
45	14	5330-00-108-1129	ODP42	AD823
45	15	5310-01-353-9506	00DP42	AD0784
45	16	5310-01-176-8075	ODP42	AD712
45	17	3110-01-176-7810	ODP42	AB777A
45	18	5365-01-358-7986	ODP42	AD786
45	19		00DP42	AD323
45	20	5306-00-225-9089	96906	MS90726-34
45	21	5310-00-167-0721	96906	MS35333-41

CROSS REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX	
		STOCK NUMBER	CAGEC
45	22		0DP42
45	23	5305-00-958-6381	96906
46	1		56878
46	2	4730-00-050-420b	96906
46	3		89413
46	4		84913
46	5		89413
46	6		89413
46	7		89413
46	8		89413
46	9		89413
46	10		89413
46	11		89413
46	12		89413
46	13		89413
46	14		89413
46	15		89413
46	16	4730-00-172-0031	96906
46	17		89413
46	18	4730-00-011-3175	79470
46	19		89413
46	20		89413
46	21		89413
46	22		89413
46	23		89413
46	24		89413
46	25		89413

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Chief of Staff

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THE METRIC SYSTEM AND EQUIVALENTS

NEAR MEASURE

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

$5/9(F - 32) = ^\circ C$
 212° Fahrenheit is equivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius

$9/5C + 32 = ^\circ F$

APPROXIMATE CONVERSION FACTORS

TO CHANGE

Inches.....
 Feet.....
 Yards.....
 Miles.....
 Square Inches.....
 Square Feet.....
 Square Yards.....
 Square Miles.....
 Acres.....
 Cubic Feet.....
 Cubic Yards.....
 Fluid Ounces.....
 pts.....
 arts.....
 allons.....
 Ounces.....
 Pounds.....
 Short Tons.....
 Pound-Feet.....
 Pounds per Square Inch.....
 Miles per Gallon.....
 Miles per Hour.....

TO

Centimeters.....
 Meters.....
 Meters.....
 Kilometers.....
 Square Centimeters.....
 Square Meters.....
 Square Meters.....
 Square Kilometers.....
 Square Hectometers.....
 Cubic Meters.....
 Cubic Meters.....
 Milliliters.....
 Liters.....
 Liters.....
 Liters.....
 Grams.....
 Kilograms.....
 Metric Tons.....
 Newton-Meters.....
 Kilopascals.....
 Kilometers per Liter.....
 Kilometers per Hour.....

MULTIPLY BY

2.540
 0.305
 0.914
 1.609
 6.451
 0.093
 0.836
 2.590
 0.405
 0.028
 0.765
 29.573
 0.473
 0.946
 3.785
 28.349
 0.454
 0.907
 1.356
 6.895
 0.425
 1.609

TO CHANGE

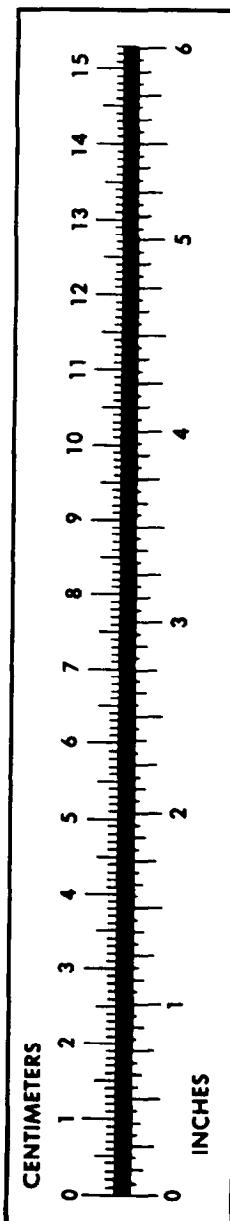
Centimeters.....
 Meters.....
 Meters.....
 Kilometers.....
 Square Centimeters.....
 Square Meters.....
 Square Meters.....
 Square Kilometers.....
 Square Hectometers.....
 Cubic Meters.....
 Cubic Meters.....
 Milliliters.....
 Liters.....
 Liters.....
 ers.....
 ms.....
 ograms.....
 Metric Tons.....
 Newton-Meters.....
 Kilopascals.....
 ometers per Liter.....
 ometers per Hour.....

TO

Inches.....
 Feet.....
 Yards.....
 Miles.....
 Square Inches.....
 Square Feet.....
 Square Yards.....
 Square Miles.....
 Acres.....
 Cubic Feet.....
 Cubic Yards.....
 Fluid Ounces.....
 Pints.....
 Quarts.....
 Gallons.....
 Ounces.....
 Pounds.....
 Short Tons.....
 Pounds-Feet.....
 Pounds per Square Inch.....
 Miles per Gallon.....
 Miles per Hour.....

MULTIPLY BY

0.394
 3.280
 1.094
 0.621
 0.155
 10.764
 1.196
 0.386
 2.471
 35.315
 1.308
 0.034
 2.113
 1.057
 0.264
 0.035
 2.205
 1.102
 0.738
 0.145
 2.354
 0.621



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