
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

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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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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 reparable special tools are also listed in the section. Items listed are shown on the associated illustration(s)/figure(s).

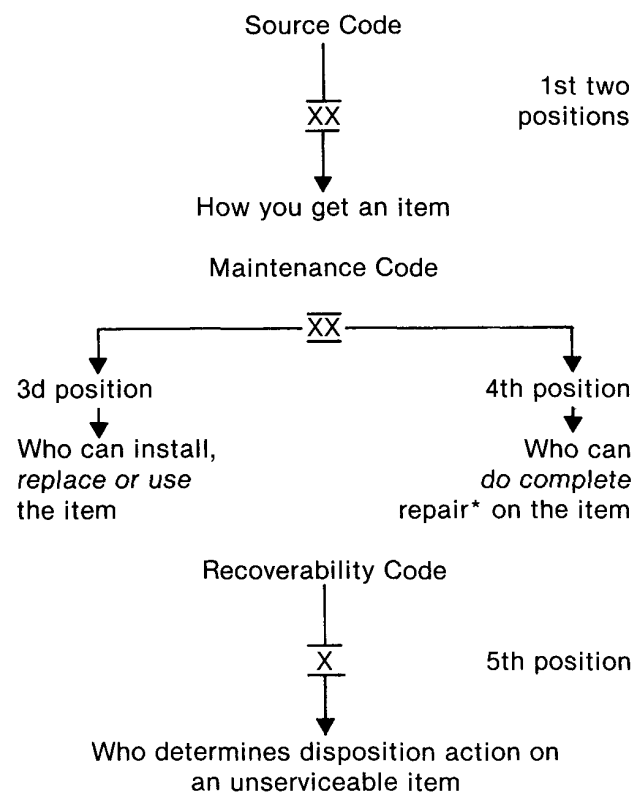
b. *Section III. Special Tools List.* A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

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	
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	

MO—Made at org/
AVUM category
MF—Made at DS/
AVUM category
MH—Made at GS
category
ML—Made at
Specialized
Repair Activity
(SRA)
MD—Made at Depot

AO—Assembled by
org/AVUM
category
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.

<u>Code</u>	<u>Application/Explanation</u>
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:

<u>Code</u>	<u>Application/Explanation</u>
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:

Code Application/Explanation

- Z* - Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the 3d position of the SMR code.
- O* - Repairable item. When uneconomically repairable, condemn and dispose of the item at unit maintenance or aviation unit level.
- F* - Repairable item. When uneconomically repairable, condemn and dispose of the item at the direct support or aviation intermediate level.
- H* - Repairable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
- D* - Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
- L* - Repairable item. Condemnation and disposal of item not authorized below specialized repair activity (SRA).
- A* - Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. 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.*

<u>Abbreviations</u>	<u>Explanation</u>
NIIN	National Item Identification Number (consists of the last 9 digits of the NSN)
RPSTL	Repair Parts and Special Tools List

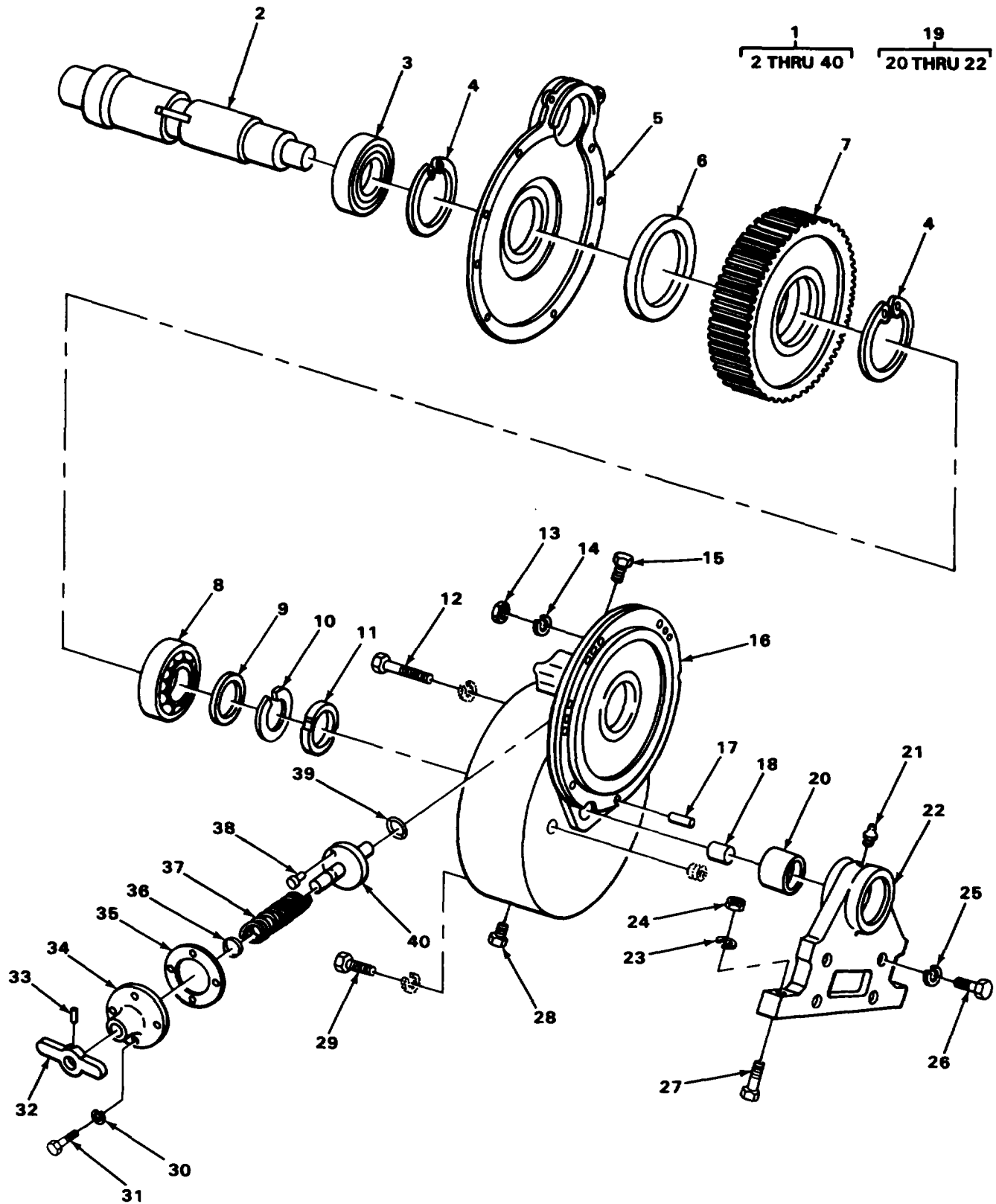


FIGURE 1. CRAWLER DRIVE ASSEMBLY.

SECTION II				TM 5-3820-241-2	
(1)	(2)	(3)	(4)	(5)	(6)
ITEM NO	SMR CODE	CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	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 HANDO	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
27	XDFZZ	89413	900020-106	BLOCK	4
28	XDFZZ	89413	901921-4	.SCREW, CAP,HEXAGON HEAD, PILLOW	4
29	XDFZZ	89413	900020-24	BLOCK MTG	2
30	XDFZZ	89413	900302-60	.PLUG, PIPE	26
31	PFOZZ	96906	MS18154-60	.SCREW, HEXAGON HEAO	8
32	XDFZZ	89413	1139281-55	.WASHER, LOCK BRACKET MTG	8
32	XDFZZ	89413	1139281-54	.SCREW, CAP, HEXAGON H HEAD, BRACKET	8
33	XDFZZ	89413	904685-106	MTG	1
34	XDFZZ	89413	1139105-154	.HANDLE, RIGHT HAND, RIGHT HAND.....	1
35	XDFZZ	89413	1139241-27	.HANDLE, LEFT HAND, LEFT HAND.....	2
36	XDFZZ	83179	902277-13	.PIN, SPRING.....	2
37	XDFZZ	89413	16402CM	.PLATE, RETAINING, SHA.....	2
38	XDFZZ	89413	1139125-127	.GASKET	2
39	XDFZZ	99413	902298-7	.PACKING, PREFORMED	2
40	XDFZZ	89413	1139495-13	.SPRING, HELICAL, COMP.....	2
				.BEARING, BRONZE	2
				.O-RING	1
				.PLATE, RETAINING, SHA.....	2

END OF FIGURE