

TECHNICAL MANUAL

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

**ROAD EQUIPMENT, TOWED ROLLER:
SMOOTH DRUM, VIBRATORY, AIR MOBILE,
SINGLE DRUM, RUMBLER SM54A**

(NSN 3895-01-193-4078)

This manual supersedes TM 5-3895-362-24P, 22 March 1987.

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

8 JUNE 1992

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Current as of 22 November 1991

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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TABLE OF CONTENTS

	Page	Illus Fig
SECTION I. INTRODUCTION.....	1	
SECTION II. REPAIR PARTS LIST	1-1	
GROUP 01 ENGINE		
0100 - ENGINE ASSEMBLY	1-1	
ENGINE AND MOUNTS	1-1	1
0101 - CRANKCASE, BLOCK, CYLINDER HEAD.....	2-1	
CRANKCASE AND HOUSING ADAPTER.....	2-1	2
FRONT COVER ASSEMBLY.....	3-1	3
CRANKCASE COVERS.....	4-1	4
CYLINDER HEAD	5-1	5
SPEED CONTROL, DRIVE SHAFT, AND FILTER.....	6-1	6
0102 - CRANKSHAFT	7-1	
CRANKSHAFT ASSEMBLY.....	7-1	7
0103 - FLYWHEEL ASSEMBLY.....	8-1	
FLYWHEEL ASSEMBLY.....	8-1	8
0104 - PISTONS AND CONNECTING RODS	9-1	
PISTON ASSEMBLY.....	9-1	9

This manual supersedes TM 5-3985-362-24P, dated 22 March 1987.

TABLE OF CONTENTS (Con't)

	Page	Illus Fig
0105 - VALVES, CAMSHAFTS, AND TIMING SYSTEM	10-1	
CAMSHAFT AND TIMING GEARS.....	10-1	10
0106 - ENGINE LUBRICATION SYSTEM.....	11-1	
OIL COOLER AND BREATHER	11-1	11
OIL PAN COVER AND FILTER	12-1	12
OIL PUMP AND COOLER	13-1	13
0108 - MANIFOLDS	14-1	
INTAKE AND EXHAUST MANIFOLDS.....	14-1	14
GROUP 03 FUEL SYSTEM		
0301 - CARBURETOR, FUEL INJECTOR.....	15-1	
FUEL INJECTOR	15-1	15
0302 - FUEL PUMPS	16-1	
FUEL PUMPS AND LINES	16-1	16
0304 - AIR CLEANER	17-1	
AIR CLEANER ASSEMBLY	17-1	17
AIR INTAKE ASSEMBLY	18-1	18
0306 - TANKS, LINES, FITTINGS, HEADERS	19-1	
FUEL TANK.....	19-1	19
FUEL LINES.....	20-1	20
0309 - FUEL FILTERS	21-1	
FUEL FILTER.....	21-1	21
0312 - ACCELERATOR, THROTTLE, OR CHOKE CONTROLS	22-1	
THROTTLE CONTROL	22-1	22
GROUP 04 EXHAUST SYSTEM		
0401 - MUFFLER AND PIPES	23-1	
MUFFLER ASSEMBLY	23-1	23
GROUP 05 COOLING SYSTEM		
0502 - COWLING DEFLECTORS, AIR DUCTS, SHROUDS, ETC	24-1	
SHIELDS	24-1	24
0505 - FAN ASSEMBLY	25-1	
PULLEY GUARD ASSEMBLY	25-1	25
COOLING BLOWER	26-1	26
GROUP 06 ELECTRICAL SYSTEM		
0601 - GENERATOR, ALTERNATOR	27-1	
ALTERNATOR	27-1	27
ALTERNATOR ADAPTER KIT	28-1	28
ALTERNATOR MOUNTING	29-1	29
0603 - STARTING MOTOR.....	30-1	
STARTER MOTOR,	30-1	30
0606 - ENGINE SAFETY CONTROLS	31-1	
ENGINE SAFETY CONTROLS	31-1	31
0607 - INSTRUMENT OR ENGINE CONTROL PANEL	32-1	
CONTROL PANEL	32-1	32
CONTROL PANEL LEADS 1	33-1	33
CONTROL PANEL LEADS 2	34-1	34
REMOTE CONTROL	35-1	35

TABLE OF CONTENTS (Con't)

		Page	Illus Fig
	0612 - BATTERIES, STORAGE.....	36-1	
	BATTERY.....	36-1	36
GROUP 15	FRAME, TOWING ATTACHMENTS, DRAWBARS, AND ARTICULATION SYSTEMS		
	1501 - FRAME ASSEMBLY.....	37-1	
	MAIN FRAME.....	37-1	37
	1503 - PINTLES AND TOWING ATTACHMENTS	38-1	
	TOWING AND PINTLE ASSEMBLY.....	38-1	38
	1507 - LANDING GEAR, LEVELING JACKS.....	39-1	
	JACK ASSEMBLY.....	39-1	39
GROUP 22	BODY, CHASSIS, AND HULL ACCESSORY ITEMS		
	2210 - DATA PLATES AND INSTRUCTION HOLDERS	40-1	
	DECALS.....	40-1	40
GROUP 24	HYDRAULIC AND FLUID SYSTEMS		
	2401 - PUMP AND MOTOR.....	41-1	
	HYDRAULIC PUMP	41-1	41
	HYDRAULIC PUMP CONNECTION.....	42-1	42
	2402 - MANIFOLD AND/OR CONTROL VALVES	43-1	
	HYDRAULIC VALVE.....	43-1	43
	2406 - STRAINERS, FILTERS, LINES, AND FITTINGS, ETC	44-1	
	HYDRAULIC FILTER.....	44-1	44
	HYDRAULIC LINES AND FITTINGS.....	45-1	45
	2408 - LIQUID TANKS OR RESERVOIRS	46-1	
	HYDRAULIC TANK.....	46-1	46
GROUP 73	CONCRETE AND ASPHALT EQUIPMENT COMPONENTS		
	7302 - DRUMS	47-1	
	DRUM.....	47-1	47
	DRUM ASSEMBLY.....	48-1	48
	VIBRATORY COUPLING.....	49-1	49
	LUBRICATION LINES.....	50-1	50
	VIBRATORY MOTOR	51-1	51
GROUP 94	REPAIR KITS		
	9401 - REPAIR KITS.....	KITS-1	
	REPAIR KITS.....	KITS-1	KITS
GROUP 95	GENERAL USE STANDARDIZED PARTS		
	9501 - BULK MATERIEL.....	BULK-1	
	BULK MATERIEL.....	BULK-1	BULK
SECTION	III. SPECIAL TOOLS LIST		
GROUP 26	TOOLS AND TEST EQUIPMENT		
	2604 - SPECIAL TOOLS.....	52-1	
	SPECIAL TOOLS.....	52-1	52

TABLE OF CONTENTS (Con't)

		Page	Illus	Fig
SECTION	IV. CROSS-REFERENCE INDEXES			
	NATIONAL STOCK NUMBER INDEX	I-1		
	PART NUMBER INDEX	I-10		
	FIGURE AND ITEM NUMBER INDEX	I-29		

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 Towed Roller. 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 II. 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.

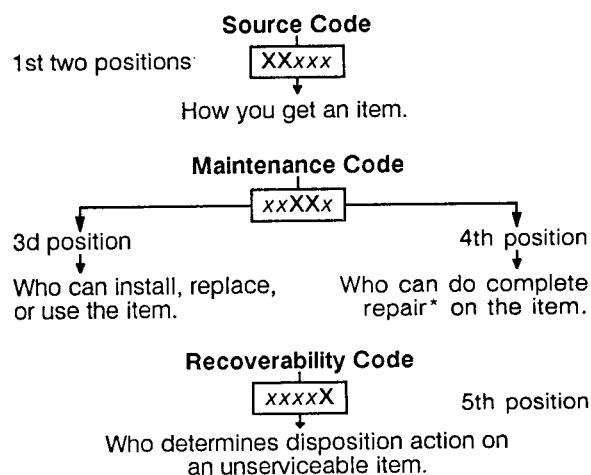
c. Section IV Cross-reference Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are 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 5-position 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**	** Items coded PC are subject to deterioration.
PD	
PE	
PF	
PG	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.
KD	
KF	
KB	
MO-(Made at UMI AVUM Level)	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 DSI AVUM Level)	
MH-(Made at GS Level)	
ML- (Made at ML-(Made at Specialized Repair Activity (SRA))	
MD-(Made at Depot)	
AO-(Assembled by UMI AVUM Level)	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/AVIM Level)	
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

digits of the NSN (i.e., 5305-01-674-1467). When

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

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

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

b. *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 5-3895-362-14.

c. *ASSEMBLY INSTRUCTIONS.* Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in TM 5-3895-362-14. 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 publication listed below pertains to the Towed Roller and its components:

<u>Publication</u>	<u>Short Title</u>
TM 5-3895-362-14	Road Equipment, Towed Roller

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.

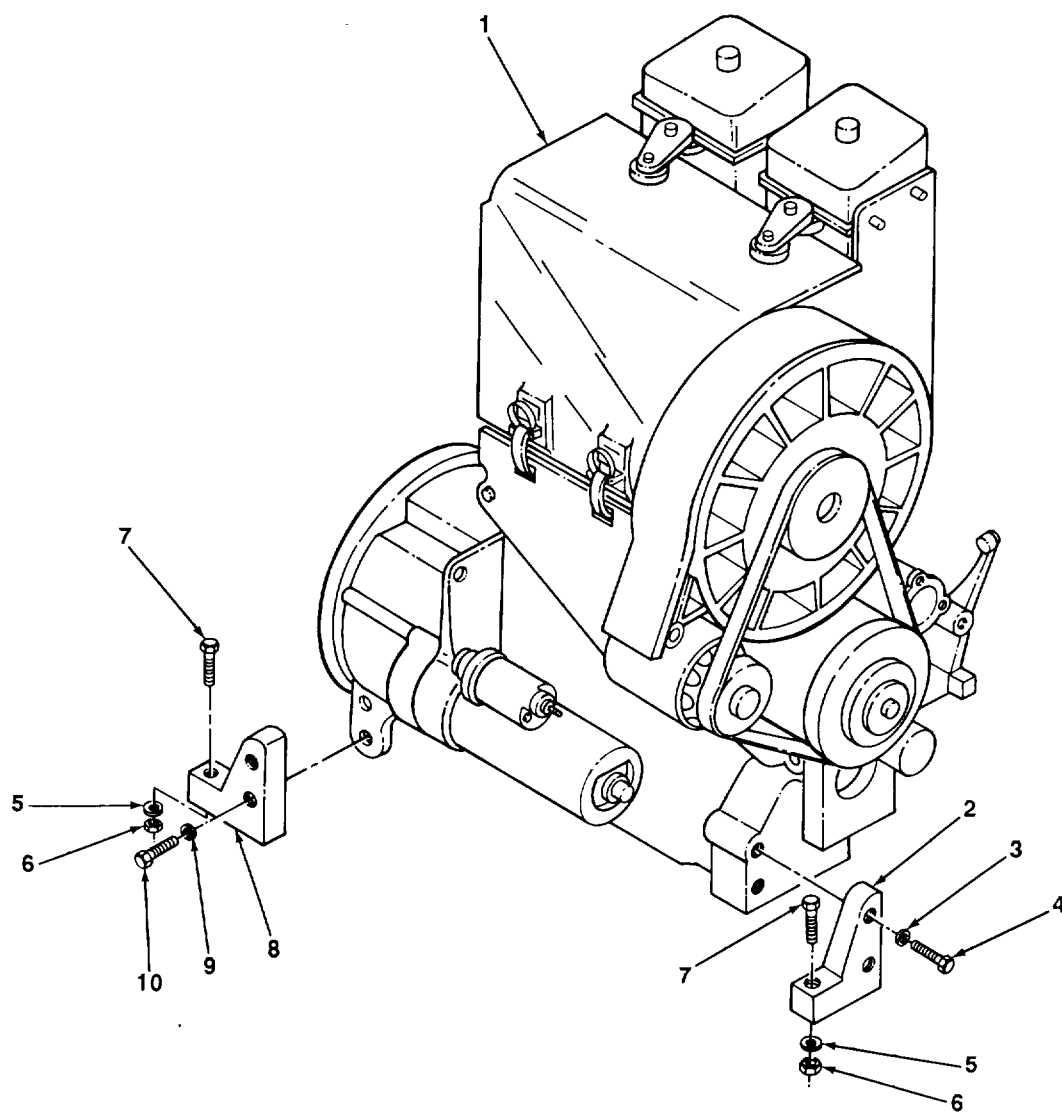
(2) *Second.* Turn to the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

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



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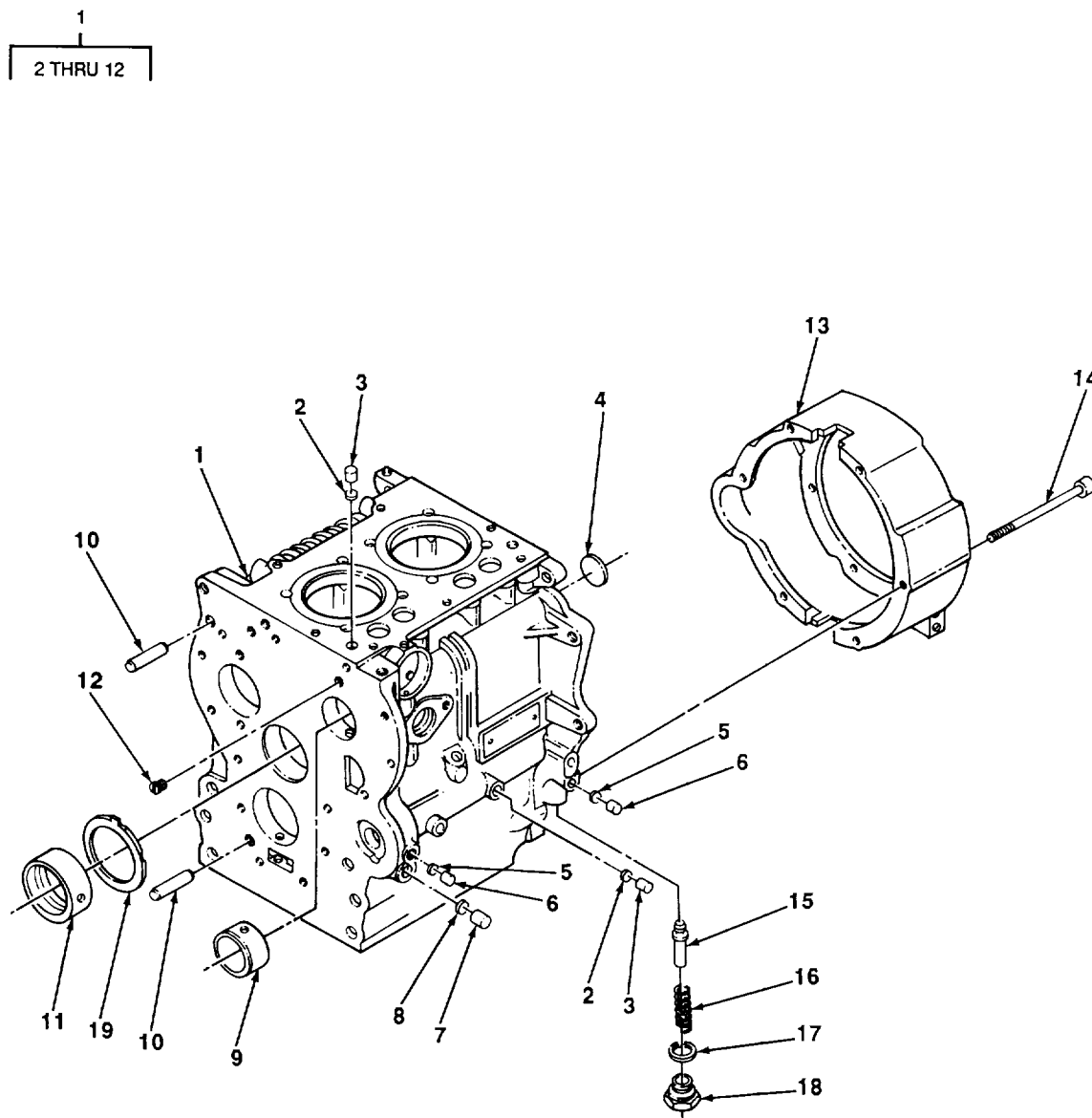
FIGURE 1. ENGINE AND MOUNTS.

SECTION II

TM 5-3895-362-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 01 ENGINE GROUP 0100 ENGINE ASSEMBLY FIG. 1 ENGINE AND MOUNTS					
1 PAFHH	27401	06001623	ENGINE,DIESEL.....		1
2 PAOZZ	27401	01006796	MOUNT, RESILIENT		2
3 PAOZZ	62445	110-2802	WASHER LOCK.....		4
4 PAOZZ	77250	1MMX65MMDIN931- 8.8BN55	SCREW,CAP,HEXAGON H		4
5 PFOZZ	96906	MS27183-15	WASHER,FLAT.....		4
6 PAOZZ	72962	29NE-083	NUT,SELF-LOCKING, HE		4
7 PAOZZ	96936	MS90728-121	SCREW,CAP, HEXAGON, H.....		4
8 PBOZZ	27401	01006797	MOUNT ENGNE		2
9 PAOZZ	27401	33080072	WASHER LOCK.....		4
10 PAOZZ	77250	10MMX50MMDIN9318 .8B N54	SCREW,CAP,HEXAGON, H		4

END OF FIGURE



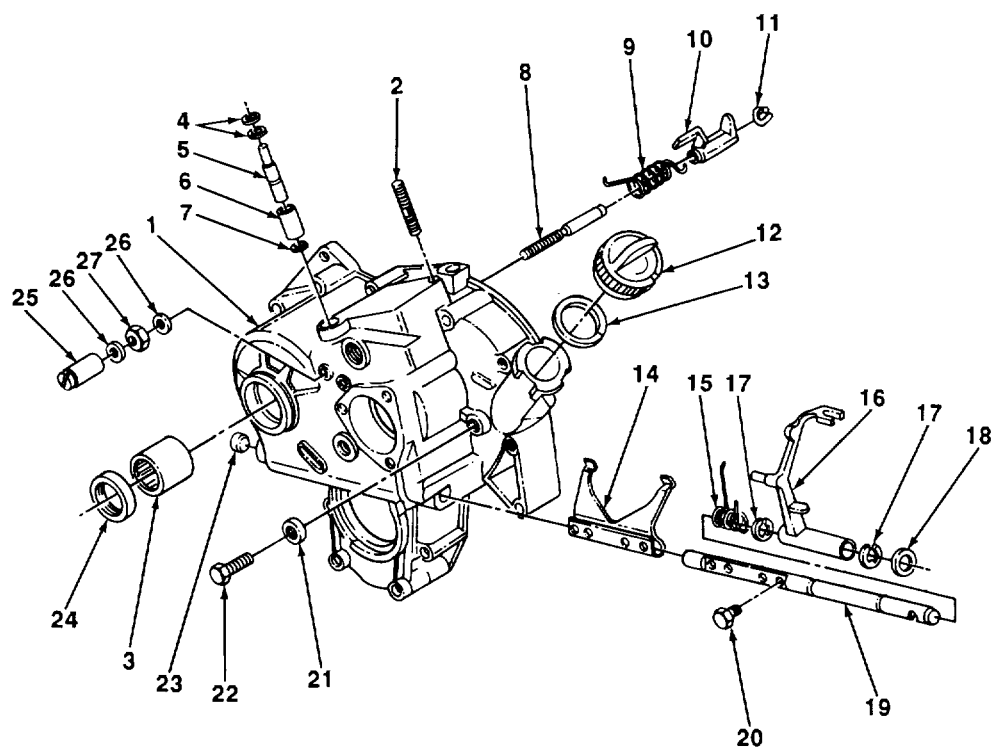
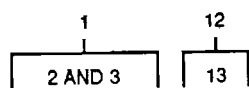
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FIGURE 2. CRANKCASE AND HOUSING ADAPTER

SECTION II

TM 5-3895-362-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 3101 CRANK CASE, BLOCK, CYLINDER HEAD FIG. 2 CRANKCASE AND HOUSING ADAPTER					
1 PAFHH	62445	223-3608	ENGINE BLOCK,DIESEL.....		1
2 PFHZZ	62445	116-7010	.WASHER, FLAT.....		2
3 PAHZZ	62445	117-0580	.PLUG, EXPANSION.....		2
4 PAHZZ	62445	121-6241	.PLUG, EXPANSION.....		1
5 PFHZZ	62445	116-7012	.WASHER, FLAT.....		2
6 PAHZZ	62445	116-0100	.PLUG, EXPANSION.....		2
7 PAHZZ	62445	116-3092	.PLUG, EXPANSION.....		1
8 PFHZL	62445	116-3091	.WASHER, FLAT.....		1
9 PBHZZ	62445	213-1938	.BEARING, SLEEVE.....		1
10 PAHZZ	62445	110-5181	.PIN, STRAIGHT, HEADLE.....		2
11 PBHZZ	62445	223-3710	.BEARING,SLEEVE.....V		
12 PAHZZ	62445	116-5786	.PLUG, EXPANSION.....		1
13 PAOZZ	27401	80000902	HOUSING, MECHANICAL.....		1
14 PFOZZ	27401	80000903	SCREW, CAP, SOCKET HE.....		1
15 PBFZZ	62445	337-1383	STEM, FLLID VALVE.....		1
16 PAFZZ	62445	337-1384	SPRING,HELICAL,CCMP.....		1
17 KFFZZ	62445	111-8706	WASHER PART OF KIT P/N 80000924.....		1
18 PAFZZ	62445	346-9004	PLUG,MACHINE TREAD.....		1
19 PAFZZ	27401	80000023	BEARING,WASHER,THRU.....V		
END OF FIGURE					



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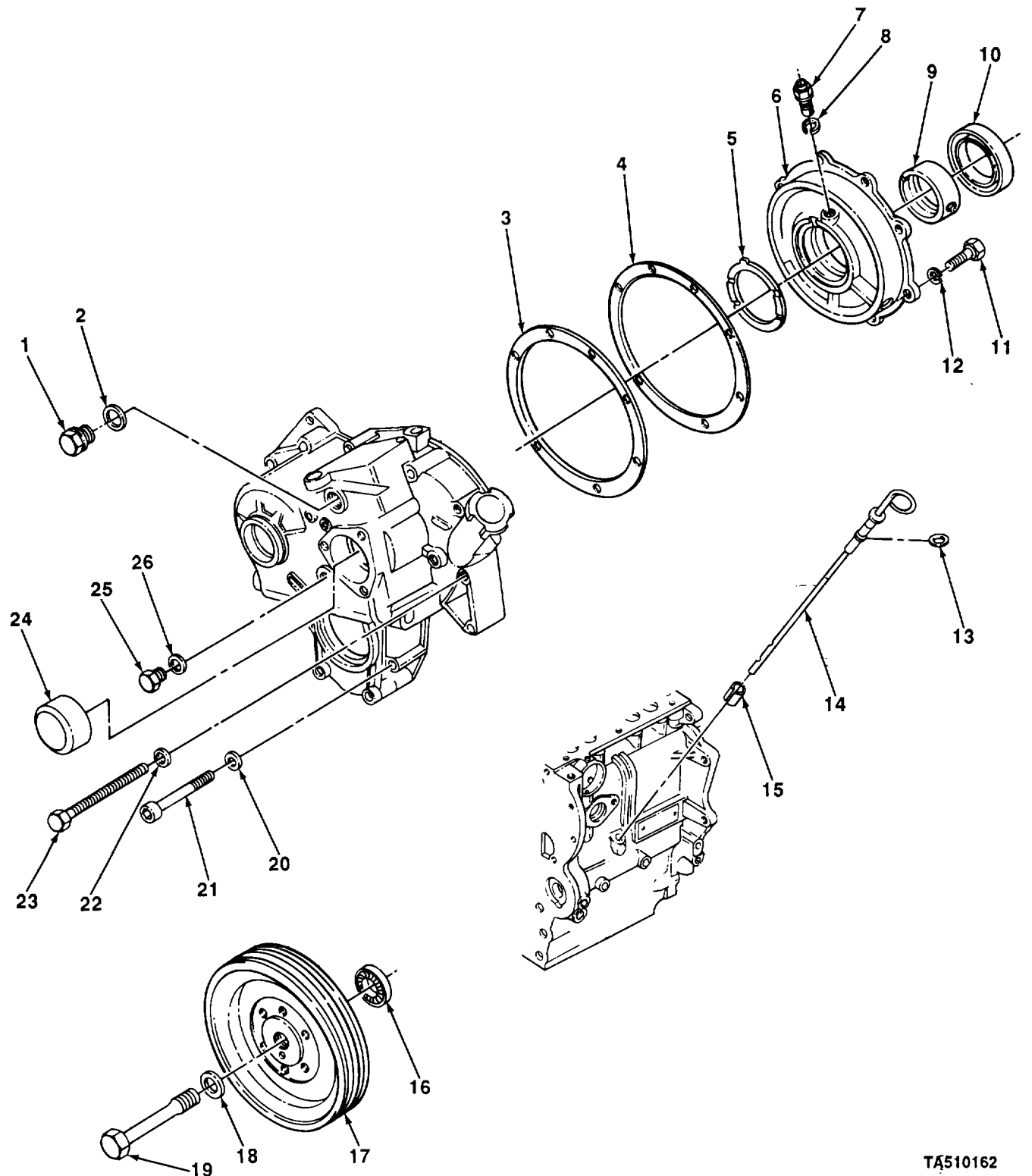
FIGURE 3. FRONT COVER ASSEMBLY.

SECTION II

TM 5-3895-362-24P C01

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0101 CRANKCASE, BLOCK, CYLINDER HEAD FIG. 3 FRONT COVER ASSEMBLY					
* 1 PBFZZ	62445	223-3977		HOUSING, MECHANICAL	1
2 PAFZZ	62445	213-8618		.PIN STRAIGHT THREAD, .	1
3 PBFZZ	62445	116-1639		.BEARING, ROLLER, NEED.....	1
* 4 PFOZZ	18876	13142983-7/36		GROMMET, NONMETALLIC	1
5 PBFZZ	62445	213-5209		PIN, GROOVED, HEADLES	1
6 PBFZZ	62445	213-5210		BUSHING, SLEEVE	1
7 KFFZZ	62445	116-5975		O-RING PART OF KIT P/N 80000924	1
8 PAFZZ	62445	335-7098		PIN, STRAIGHT, THREAD	1
9 PBFZZ	62445	335-7737		SPRING, HELICAL,COMP.....	1
10 PBFZZ	62445	223-4048		LEVER, STOP	1
11 PAFZZ	27401	80000054		CLIP, RETAINING	1
*12 PAOZZ	62445	117-2852		CAP, FILLER OPENING	1
13 KFOZZ	62445	117-4272		GASKET PART OF KIT P/N 80000924	1
14 PAOZZ	27401	80000762		SHIFTER FORK	1
15 PAFZZ	62445	223-3966		SPRING, HELICAL,COMP.....	1
16 PBFZZ	62445	223-4046		LEVER,REMOTE CONTRO	1
17 PFFZZ	62445	111-7930		WASHER, LOCK.....	2
18 PFFZZ	62445	337-9712		WASHER, FLAT	1
19 PBFZZ	62445	223-4195		SHAFT, STRAIGHT	1
20 PFFZZ	62445	223-4199		BOLT,MACHINE	1
21 PAFZZ	62445	2308AS		WASHER,FLAT	1
22 PFFZZ	62445	112-7039		BOLT, MACHINE	1
23 PAFZZ	62445	110-7613		PLUG, MACHINE THREAD	1
24 KFFZZ	27401	80000043		SEAL SHAFT PART OF KIT P/N 80000924	1
25 PAFZL	62445	223-0030		INSERT, SCREW THREAD	1
26 KFFZZ	62445	111-8647		WASHER PART OF KIT P/N 80000924	2
27 PFFZZ	27401	80000056		NUT, PLAIN,HEXAGON	1

END OF FIGURE



TA510162

FIGURE 4. CRANKCASE COVERS.

SECTION II

TM 5-3895-362-24P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0101 CRANKCASE, BLOCK, CYLINDER HEAD FIG. 4 CRANKCASE COVERS					
1 PAFZZ	62445	111-8979		PLUG, MACHINE THREAD	1
2 KFFZZ	62445	111-8736		WASHER PART OF KIT P/N 80000924	1
3 KFFZZ	62445	223-3605		GASKET PART OF KIT P/N 80000924	1
4. KFFZZ	62445	223-3996		GASKET PART OF KIT F/N 80000924.....	4
5 PAFZZ	27401	80000023		BEARING, WASHER,THRU	1
6 PBFZZ	62445	223-3631		PLATE, RETAINING, BEA	1
7 PAFZZ	62445	223-9584		NOZZLE, LUBRICATING,	1
8 PFFZZ	62445	111-9611		WASHER, LOCK.....	1
9 PBFZZ	624*5	223-3710		BEARING, SLEEVE	V
10 KFFZZ	62445	223-3655		SEAL SHAFT PART OF KIT F/N 80000924	1
11 PFFZZ	62445	111-2258		BOLT, MACHINE	7
12 PFFZZ	62445	110-2797		WASHER, LOCK.....	7
13 KFOZZ	62445	116-5975		O-RING PART OF KIT P/N 80000924	1
14 PAOZZ	62445	336-2495		GAGE ROD, LIQUID LEV	1
15 PAOZZ	62445	116-726;		BLSHING, SLEEVE.....	1
16 PAFZZ	62445	0141-01-6204		BEARING, WASHER, THRU	1
17 PAFZZ	62445	223-4028		PULLEY, GROOVE.....	1
1b PFFZZ	62445	121-6107		WASHER, FLAT.....	1
19 PFFZZ	62445	116-6894		BOLT, EXTERNALLY REL	1
20 PFFZZ	62445	121-8400		WASHER, FLAT.....	1
21 PFFZZ	62445	111-0539		SCREW, CAP, SOCKET HE.....	13
22 KFFZL	62445	111-8 641		WASHER PART OF KIT P/N 80000924	1
23 PFFZZ	62445	111-2290		SCREW, CAP, HEXAGON H	1
24 PPFZZ	62445	121-0751		COVER, ACCESS.....	1
25 PAFZZ	62445	111-8964		PLUG, MACHINE THREAD	1
26 KFFZZ	62445	111-8706		WASHER PART OF KIT P/N 800CC924	1

END OF FIGURE