

TECHNICAL MANUAL

**UNIT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS**

**TRACTOR, FULL TRACKED, LOW SPEED,
HEAVY DRAWBAR PULL, (SIZE T-11)
W/ANGLE DOZER, WINCH AND ROPS**

**CATERPILLAR MODEL D8K-8A-58 (CCE)
NSN 2410-00-574-7597
AND
W/BULLDOZER (SEMI-U-TILT), RIPPER
AND ROPS**

**CATERPILLAR MODEL D8K-8S-8 (CCE)
NSN 2410-00-574-7598**

**This manual supersedes TM5-2410-234-20P, 1 May 1986
Approved for Public Release; Distribution is Unlimited**

HEADQUARTERS, DEPARTMENT OF THE ARMY

27 JUNE 1988

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CATERPILLAR MODEL D8K-8S-8 (CCE)**

Current as of 21 MARCH 1988

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 back of this manual direct to: 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 MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Unit Maintenance of the Tractor. 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).

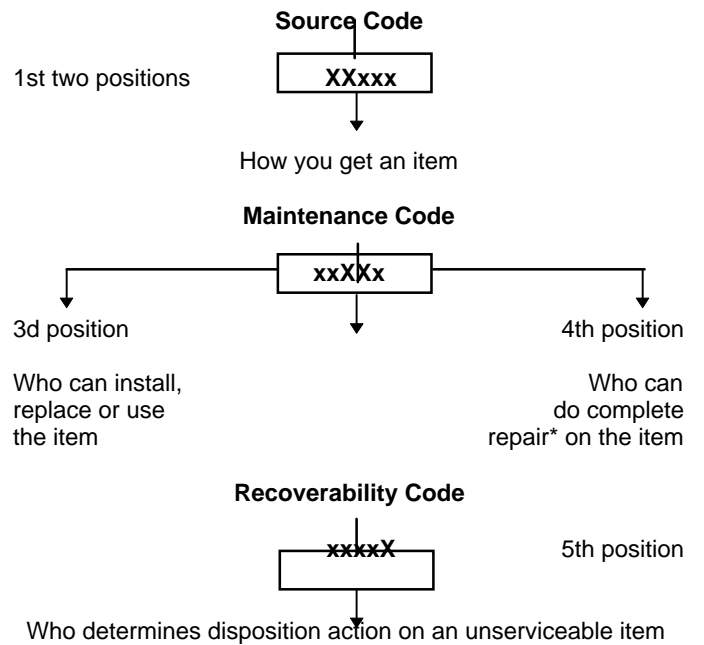
b. *Section III Special Tools List.* A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. *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, FSCM, 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 PB PC PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR code. **Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.
MO-(Made at UM/ 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.
MF-(Made at IDS/ AVUM Level)	
MH-(Made at IGS Level)	
ML-(Made at Specialized Repair act (SRA))	
MD-(Made at Depot)	If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO-(Assembled by UM/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 IGS Category)	
AL-(Assembled by SRA)	
AD-(Assembled by Depot)	
XA-	

- XB- If an "XB" item is not available from salvage, order it using the FSCM and part number given.
- XC- Installation drawing, diagram, instruction sheet, field service drawing, that is identified by the manufacturer's part number.
- XD- Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as 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.

(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-	Intermediate Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H-	Intermediate General support 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.
- L- Specialized repair activity 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, lubrication, 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>
Z-	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
O-	Reparable item. When uneconomically repairable, condemn and dispose of the item at unit maintenance or aviation unit level.
F-	Reparable item. When uneconomically repairable, condemn and dispose of the item at the intermediate direct support or aviation intermediate level.
H-	Reparable item. When uneconomically repairable, condemn and dispose of the item at the intermediate general support level.
D-	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L-	Reparable item. Condemnation and disposal 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. *FSCM (Column (3))*. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

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

NOTE: When you use a 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 and 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) *STOCK NUMBER column.* This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine

NSN
5305-01-674-1467.
 NIIN

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

(1) *FSCM column.* The Federal Supply Code for Manufacturer (FSCM) is a 5 digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

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

(3) *STOCK NUMBER column.* This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) *FIG. column.* This column lists the number of the figure where the item is identified/located in Section 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 Section II and III.

(2) *ITEM column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) *STOCK NUMBER column.* This column lists the NSN for the item.

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

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

5. Special Information.

Use the following subparagraphs as applicable:

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

<u>Code</u>	<u>Used On</u>
T24	D8K-8A-58 (CCE)
T25	D8K-8S-8 (CCE)

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.

c. *ASSEMBLY INSTRUCTION.* 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 Tractor and its components:

<u>Publication</u>	<u>Short Title</u>
TM 5-2410-234-14&P- 1	Tractor
TM 5-2410-234-14&p-2	Tractor
TM 5-2410-234-34P	Tractor

g. The illustrations in this manual are identical to those published in the TM5-2410-234-34P. Only those parts coded "C" or "O" in the third position of the SMR code are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational unit authorized items appear in this manual.

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 some 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 the Part Number Index, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4.1(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 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.

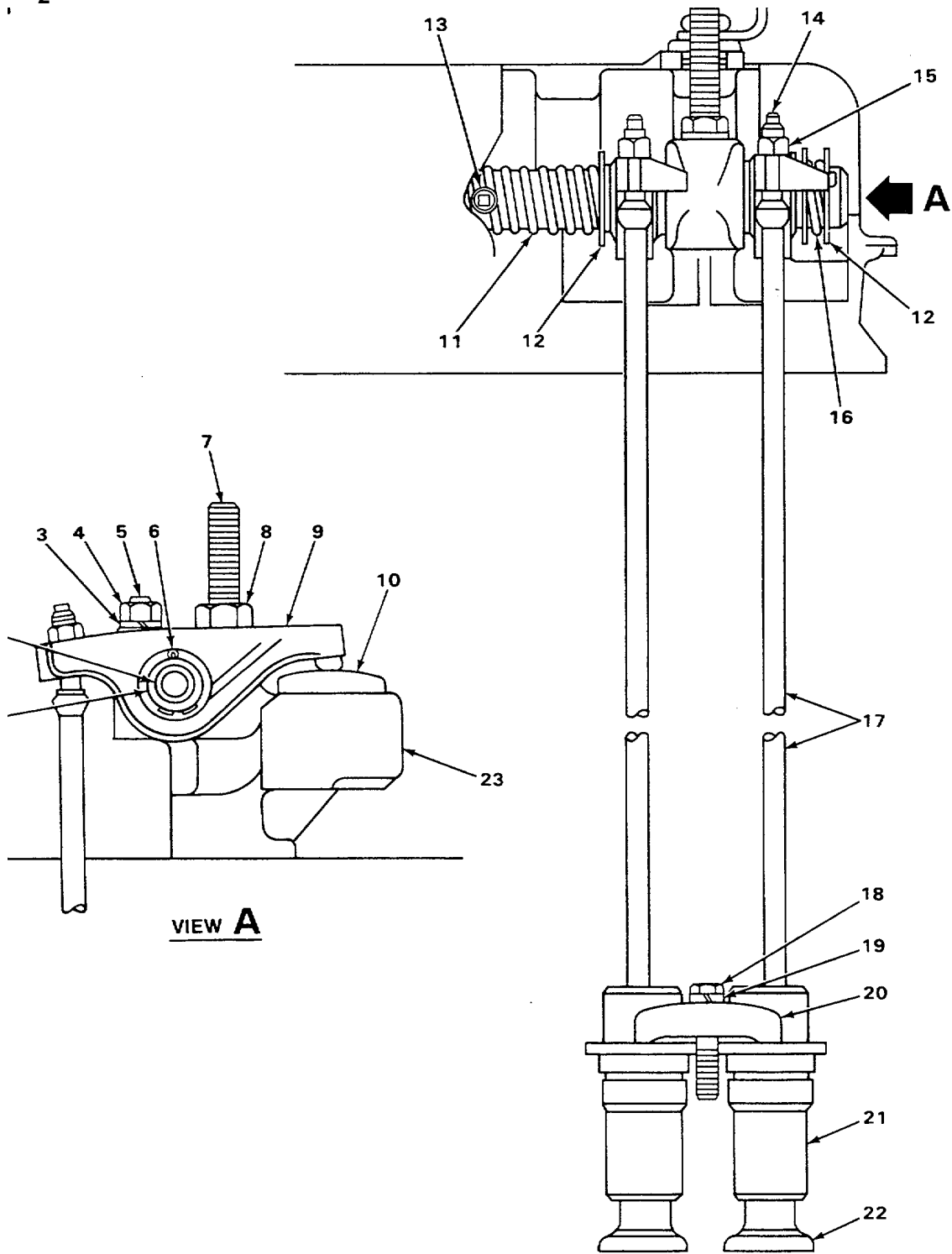
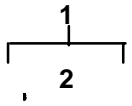


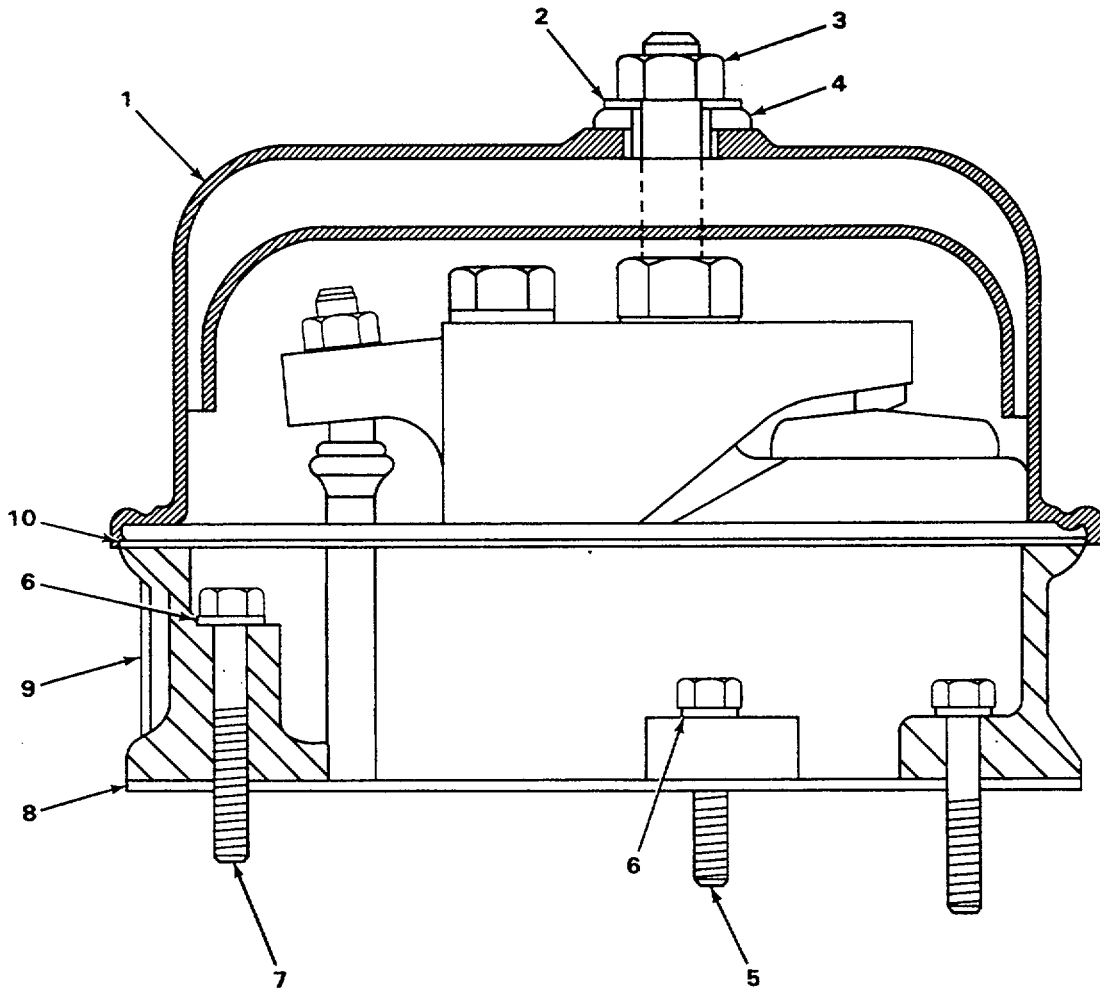
FIGURE 1. ROCKER ARMS, LIFTERS AND PUSH RODS.

SECTION II

TM 5-2410-234-20P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 01 ENGINE					
GROUP 0105 VALVES, CAMSHAFTS, AND TIMING SYSTEM					
FIG 1 ROCKER ARMS, LIFTERS AND PUSH RODS					
1	PFOOO	11083	2FE874	SHAFT	2
2	PFOZZ	11083	3B622	.PLUG, EXPANSION	2
3	PFOZZ	11083	3B4508	WASHER LOCK	6
4	PFOZZ	11083	184205	NUT, PLAIN, HEXAGON	6
5	PFOZZ	11083	3B7302	ROD, ENDITHREADED	6
6	PFOZZ	56442	DX2261	PIN, COTTER	2
7	PFOZZ	11083	9H1022	STUD, TRACTOR	6
8	PFOZZ	96906	MS51968-20	NUT, PLAIN, HEXAGCN	6
9	PFOZZ	11083	1S2365	ROCKER ARM, ENGINE P	12
10	PFOZZ	11083	688505	SLEEVE, VALVE, ENGINE	12
11	PFOZZ	11083	1A1884	SPRING,HELICAL, COMP	4
12	PFOZZ	11083	6H411	WASHER, FLAT	16
13	PFGZZ	96906	MS51884-1C	PLUG,PIPE	2
14	PFOZZ	11083	1A744	SETSCREW	12
15	PFOZZ	96906	MS51S6-11	NUT, PLAIN, HEXAGON	12
16	PFOZZ	11083	189917	SPRING, HELICAL, COMP	4
17	PFOZZ	11083	9H6236	PUSH ROD, ENGINE P	12
18	PFOZZ	96906	MS9072866	SCREW, CAP, HEXAGON H	12
19	PFOZZ	11083	3H3451	LOCKING PLATE, NUT A	6
20	PFOZZ	11083	2B7114	YOKE, VALVE LIFT GUI	6
21	PFOZZ	11083	4H7302	GUIDE, ENGINE POPPET	12
22	PFOZZ	11083	5S1220	LIFTER, VALVE	12
23	PFOZZ	11083	2F8584	BRACKET, VALVE ROCKE	6

END OF FIGURE



TA235213

FIGURE 2. ROCKER ARM COVER.

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

GROUP 0105 VALVES, CAMSHAFTS, AND TIMING SYSTEM

FIG 2 RGOCKER ARM COVER

1	PFOZZ	11083	9M2315	COVER, ENGINE POPPET.....	2
2	PFOZZ	11083	3F8526	WASHER, SPECIAL.....	6
3	PFOZZ	11083	4K8977	NUT.....	6
4	PFOZZ	11083	8F4994	PACKING, PPEFORMED.....	6
5	PFOZZ	96906	MS90728-64	SCREW, CAP, HEXAGON H.....	4
6	PFOZZ	11083	5M2894	WASHER,FLAT.....	12
7	PFOZZ	11083	L1143	BOLT,,MACHINE.....	8
7	PFOZZ	14351	13XX3S58	BOLT,MACHINE.....	8
8	PFOZZ	11083	9M2617	GASKET.....	2
9	XDOZZ	11083	9M2314	BASE.....	2
10	PFOZZ	11083	9M2616	GASKET.....	2

END OF FIGURE

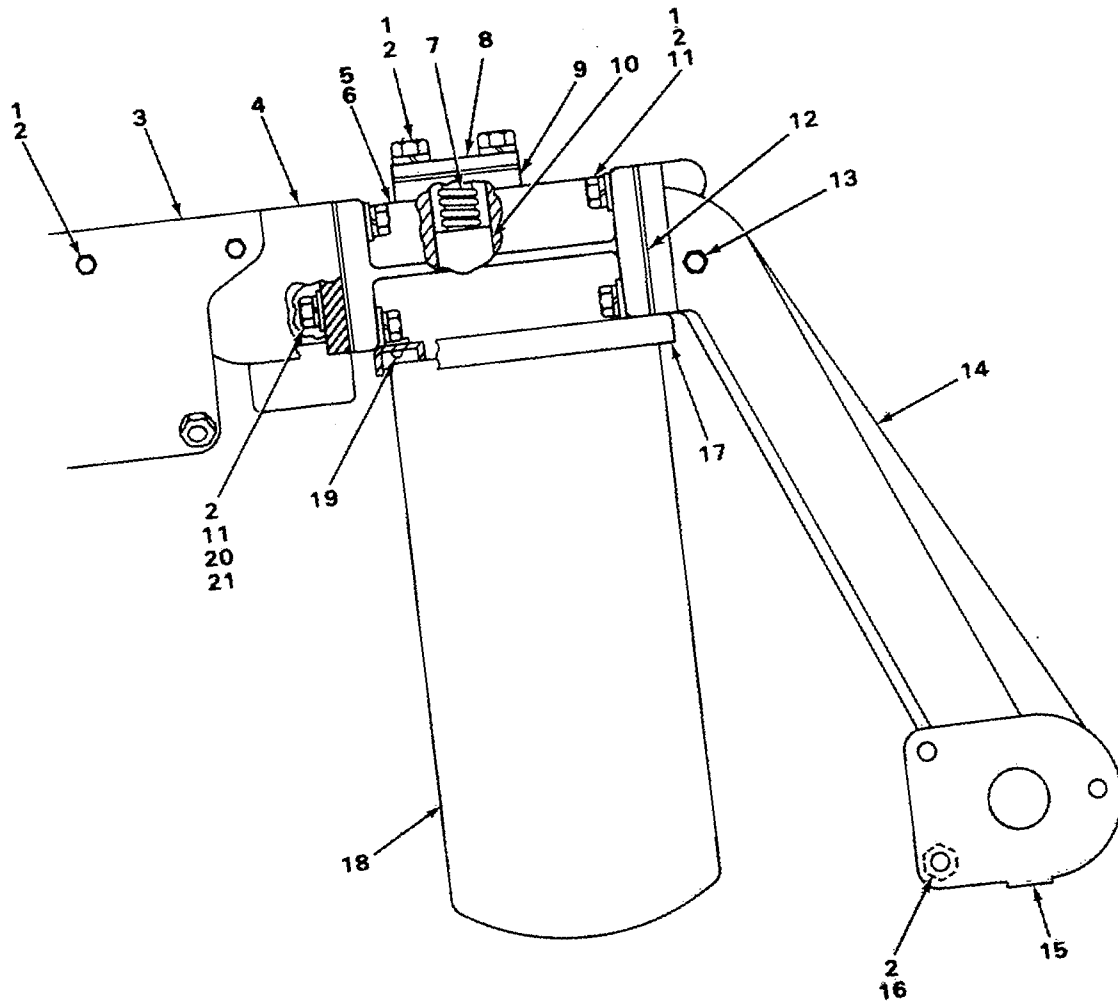
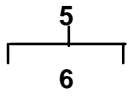


FIGURE 3. OIL FILTER, BASE AND BRACKET.

SECTION II					
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR	FSCM	PART	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
NO	CODE	FSCM	NUMBER		
GROUP 0106 ENGINE LUBRICATION SYSTEM					
FIG 3 OIL FILTER, BASE AND BRACKET					
1	PFOZZ	96906	MS90728-65	SCREW, CAPHEXAGON H USE WITH..... ENGINE SERIAL RANGE 175S5088 THRU 17S8313.....	3
1	PFOZZ	11083	S1568	BOLT, MACHINE	9
2	PFOZZ	11083	3B4506	WASHER, LOCK USE WITH ENGINE SERIAL	16
3	XDOZZ	11083	4N7570	RANGE 17S5088 THRU 17S83113	
				PLATE ASSEMBLY USE WITH ENGINE.....	1
4	XDOZZ	11083	2P5084	SERIAL RANGE 17S5088 THRU 17S8313.....	
				SUPPORT.....	1
5	PFOOO	11083	2P4301	BASE ASSEMBLY	1
6	PFOZZ	11083	2P43C4	.STUD	1
7	PFOZZ	11083	8M3182	SPRING, HELICAL, COMP	1
8	PFOZZ	11083	2P3761	COVER, ACCESS	1
9	PFOZZ	11083	2P3760	GASKET	1
10	PFOZZ	11083	9M853	PLUNGER.....	1
11	PFOZZ	96906	MS27183-14	WASHER, FLAT	8
12	PFOZZ	11083	2P43C5	GASKET	1
13	PFOZZ	11083	5M6214	PLUGIPIPE	1
14	PFOZZ	1083	2P5085	SUPPORT.....	1
15	PFOZZ	11083	2P5155	GASKET USE WITH ENGINE SERIAL	1
				RANGE 17S5088 THRU 17S8313	
16	PFOZZ	96906	MS35690-624	NUT, PLAIN, HEXAGON USE WITH ENGINE	1
				SERIAL RANGE 1755088 THRU 17S8313.....	
17	PFOZZ	11083	4N7082	SHIELD	1
18	PFOZZ	81321	PER69	FILTER ELEMENT, FLUI.....	1
19	PFOZZ	96906	MS21318-41	SCREW, DRIVE	1
20	PFOZZ	11083	2A4639	BOLT, MACHINE	2
21	PFOZZ	11083	1D4717	NUT, HEXAGON.....	2

END OF FIGURE

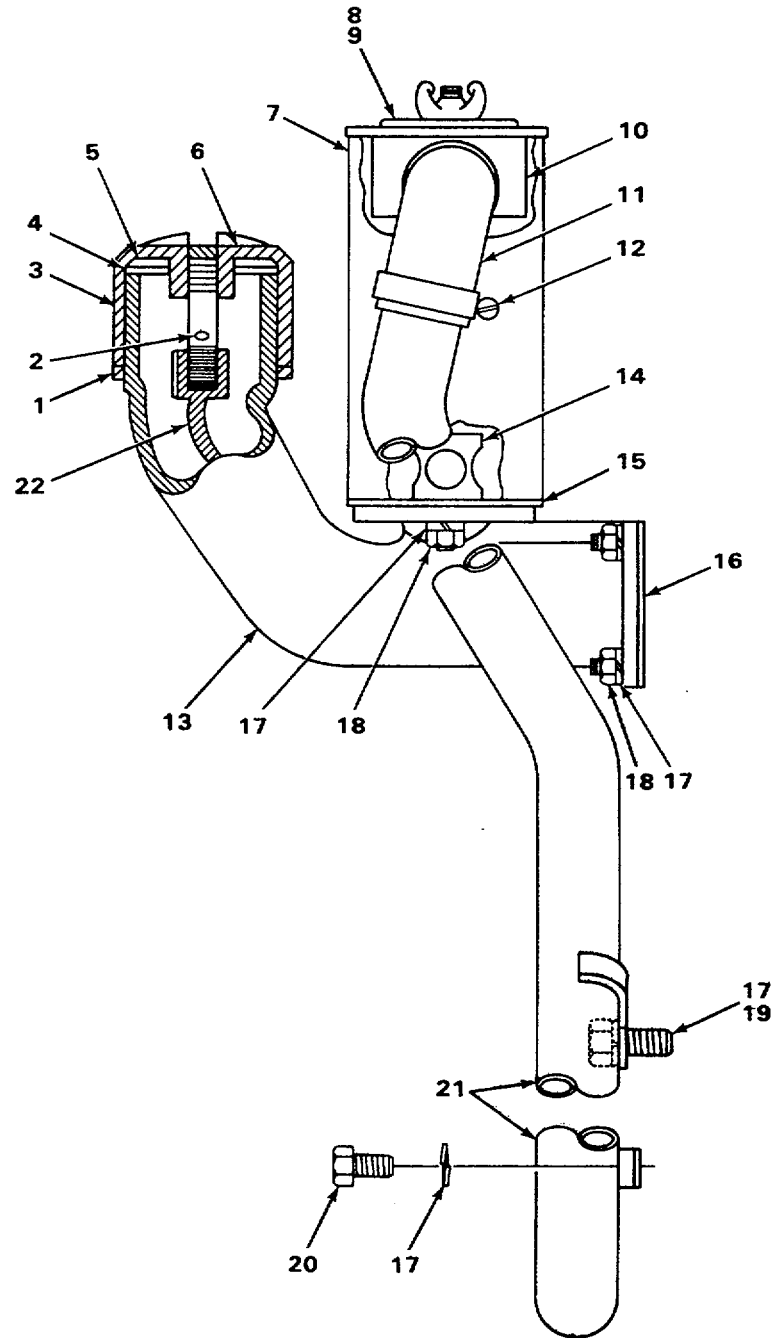
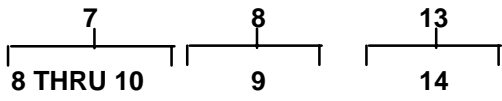


FIGURE 4. OIL FILLER AND BREATHER ASSEMBLY.

SECTION II					
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
GROUP 0106 ENGINE LUBRICATION SYSTEM					
FIG 4 OIL FILLER AND BREATHER ASSEMBLY					
1	PFOZZ	11083	8F7559	GASKET	1
2	PFOZZ	11083	3B4615	PINTCGTTER	1
3	PFOZZ	11083	8F4103	CAP, FILLER CPE NING	1
4	PFOZZ	11083	8F4099	GASKET	1
5	PFOZZ	11083	5B5980	SPACER, RING	1
6	PFOZZ	11083	8F4102	PLATE, FILLER CAP	1
7	PFOOO	11083	9M9542	BREATHER ASSEMBLY	1
8	PFOOO	11083	9MS549	.COVER,ACCESS	1
9	PFOZZ	18265	P16861	..GASKET	1
10	PFOZZ	11083	6H6095	.FILTER ELE MEFT, INTA.....	1
11	PFOZZ	11083	9M9423	HOSE, PREFORMED.....	1
12	PFOZZ	81646	5732	C LAMP.....	2
13	PFODO	11083	9H7187	ELBGW ASSEBLY,OIL.....	1
14	PFOZZ	11083	5H9671	.SHIELD,ELBOW	1
15	PFOZZ	11083	5H7376	GASKET	1
16	PFOZZ	11083	5H7033	GASKET	1
17	PFOZZ	11083	384506	WASHER,LOCK	8
18	PFOZZ	15564	1377A	NUT, PLA I N, HEXAGCN	6
19	PFOZZ	11083	S1588	BOLT,MACHINE	1
20	PFOZZ	11083	11351	BOLT, MACHINE	1
21	XDOZZ	11083	2P3822	TUBE ASSEMBLY.....	1
22	PFOZZ	11083	7H3460	CABLE ASSEMBLY.....	1

END OF FIGURE