*TM 9-2320-218-34P

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

TRUCK, UTILITY: 1/4-TON, 4X4,
M151 (2320-00-542-4783)
M151A1 (2320-00-763-1092), M151A2 (2320-00-177-9258)
M151A2 W/ROPS (2320-01-264-4819)

TRUCK, UTILITY: 1/4-TON, 4X4,
M151A1C (2320-00-763-1091),
M825 (2320-00-177-9257), 106MM RECOILLESS RIFLE

TRUCK, AMBULANCE, FRONTLINE:
1/4-TON, 4X4, M718
(2310-00-782-6056), M718A1 (2310-00-177-9256)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C.
15 November, 1988

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Current as of 27 September 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 Form), or DA Form 2028-2 located in 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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DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. Scope.

This Repair Parts and Special Tools List (RPSTL) lists and authorizes spare and repair parts, special tools, special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of direct support and general support maintenance of the M151, M151A1, M151A2, and Ml51A2 w/ROPS series of vehicles. 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 RPSTL is divided into the following sections.

a. Section II. Repair Parts List. A list of spare 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 theI parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

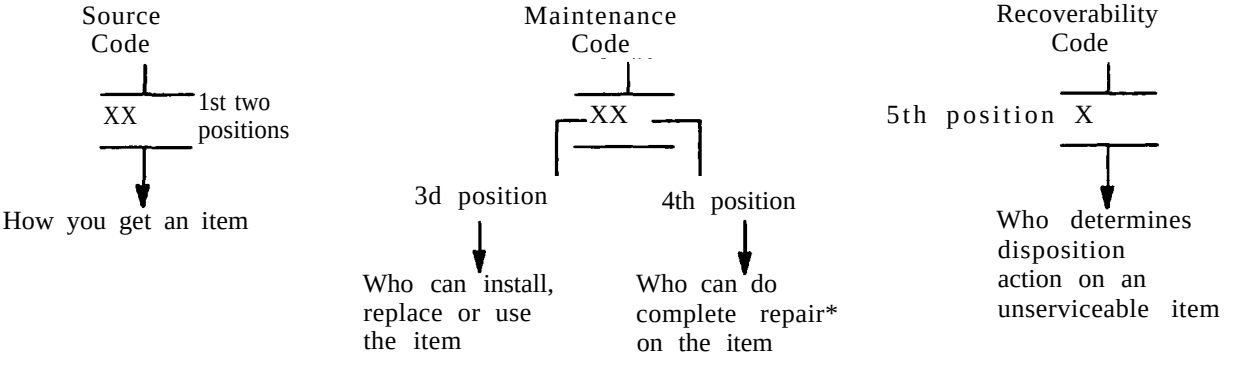
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. National Stock Number and Part Number Index. 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. Column (1) - Item No. Indicates the number used to identify items called out in the illustration.

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



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

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

Code	Explanation
PA PB PC•• PD PE P F 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. l l NOTE: Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.
MO- (Made at Org Level) MF- (Made at DS Level) MH- (Made at GS Level) ML- (Made at Specialized Repair Act (SRA) MD- (Made at Depot)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group of the repair parts list in the RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but,the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO- (Assembled by Org Level) AF- (Assembled by DS Level) AH- (Assembled by GS Level) AL- (Assembled by SRA) AD- (Assembled by Depot)	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.

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

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

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

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

NOTE

Cannibalization or controlled exchange, when authorized, maybe used as a source of supply for items with the above source codes, except for those source coded “XA”.

(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 organizational maintenance.
O	Organizational level can remove, replace, and use the item.
F	Direct support level can remove, replace, and use the item.
H	General support level can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot level can remove, replace, and use the item.

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

Code	Application/Explanation
O	- Organizational is the lowest level that can do complete repair of the item.
F	- Direct support is the lowest level that can do complete repair of the item.
H	- General support is the lowest level that can do complete repair of the item.
L	- Specialized repair activity (designate the 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:

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

c. Column (3) - FSCM. 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. Column (4) - Part Number. 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. Column (5) - Description and Usable on Code (UOC). This column includes the following information:

(1) The Federal item name and, when required a minimum description to identify the item.

(2) Items that are included in kits and sets are listed below the name of the kit or set.

(3) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.

(4) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(5) The effective serial numbers are shown on the last line(s) of the description (before UOC) when the item is not used with all serial numbers of the same model.

(6) The usable on code, when applicable (refer to paragraph 5, Special Information).

(7) 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.

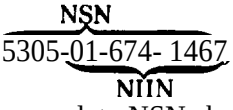
(8) The statement "END OF FIGURE appears just below the last item description in column 5 for a given figure in both Section 11 and Section 111.

f. Column (6) - QTY. 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 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 111.

(.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 Section 111.

(S) Item Column. The item number is that number assigned to the item as its appears in the figure referenced in the adjacent figure number column.

NOTE

Anew index has been added to this TM to provide a numerical list of National Stock Numbers (NSN's) for each figure. This index greatly lowers the time it takes to identify NSNS. This new index begins on page 1-90.

5. Special Information.

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

Code	Used On	Code	Used On
B30	M718A1	178	M151A1
B31	M825	243	M718
B32	M151A2	910	M151
B33	M151A2 W/ROPS	911	M151A1C

b. Fabrication Instructions. Bulk materials required to manufacture items are listed in the Bulk Material Funtional 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 codes to be manufactured or fabricated are found in TM 9-2320-218-20-1-1, TM 9-2320-218-l-20-1-2, and TM 9-2320-218-34-1.

c. Kits. Line item entries for repair parts kits in Functional Group 9401 in Section II.

d. 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.

e. Associated Publications. The publications listed below pertain to M151, M151A1, M151A2, and M151A22 w/ROPS series of vehicles and its components:

LO 9-2320-218-12	Lubrication Order
TM 9-2320-218-10	Operator's Manual
TM 9-2320-218-20-1-1	Organizational Maintenance Manual
TM 9-2320-218-20-1-2	Organizational Maintenance Manual
TM 9-2320-218-20P)	Organizational Maintenance Repair Parts and Special Tools List
TM 9-2320-218-34-1	Direct Support and General Support Maintenance Manual
TM 9-2320-218-34-2	Direct Support and General Support Maintenance Manual

f. Illustrations. Item numbers on illustrations have been assigned in clockwise sequence, starting at the 11 o'clock position (upper left).

6. How to Locate Repair Parts.

NOTE

A new index has been added to this TM to provide a numerical list of National Stock Numbers (NSN's) for each figure. This index greatly lowers the time it takes to identify NSN's. This new index begins on page I-90.

a. When National Stock Number or Part Number is Known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

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

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the Pertinent National Stock Number or Part Number. The NSN index is in National Item ldentification Number (NIIK) sequence [see 4.a.(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. After finding 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.

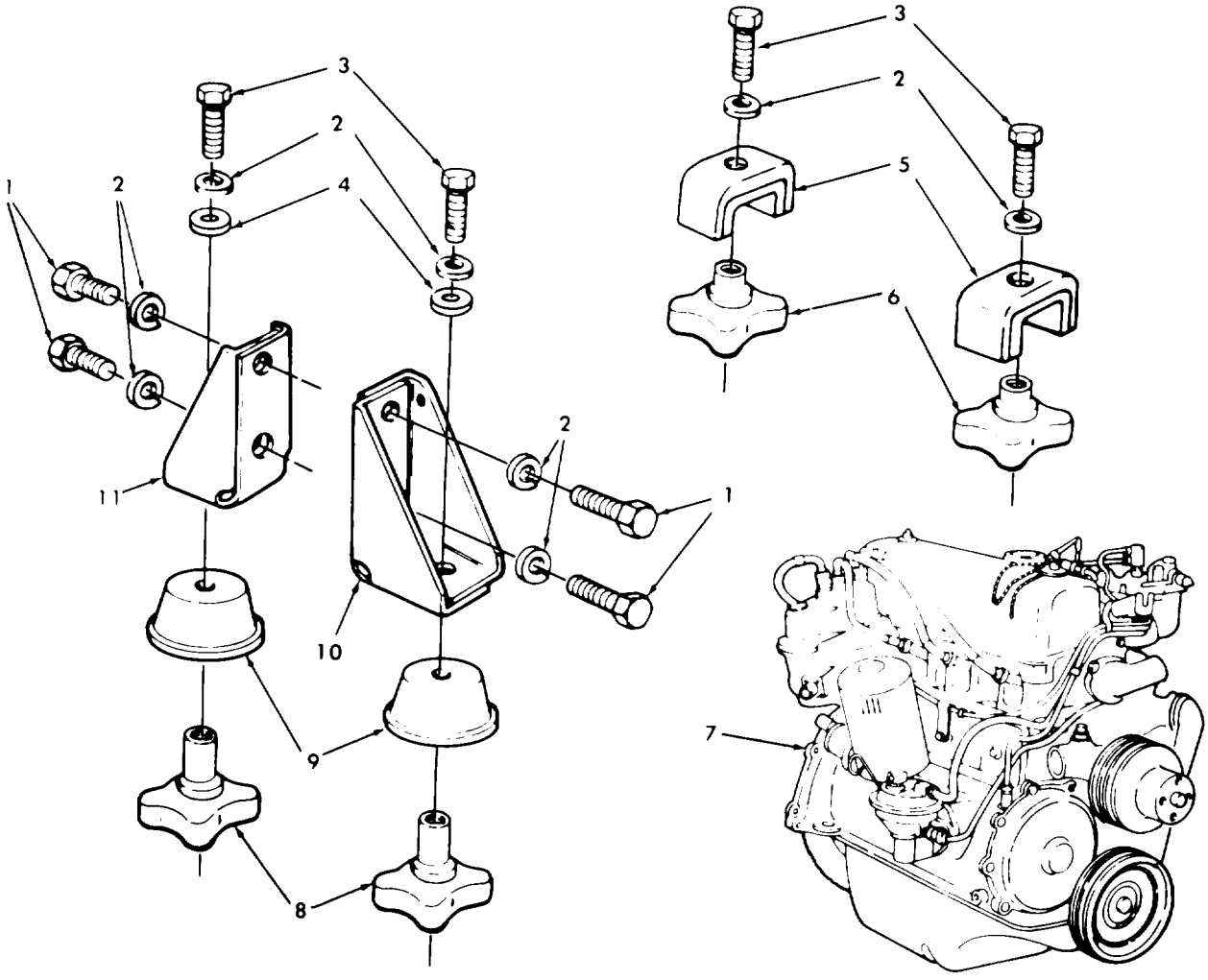
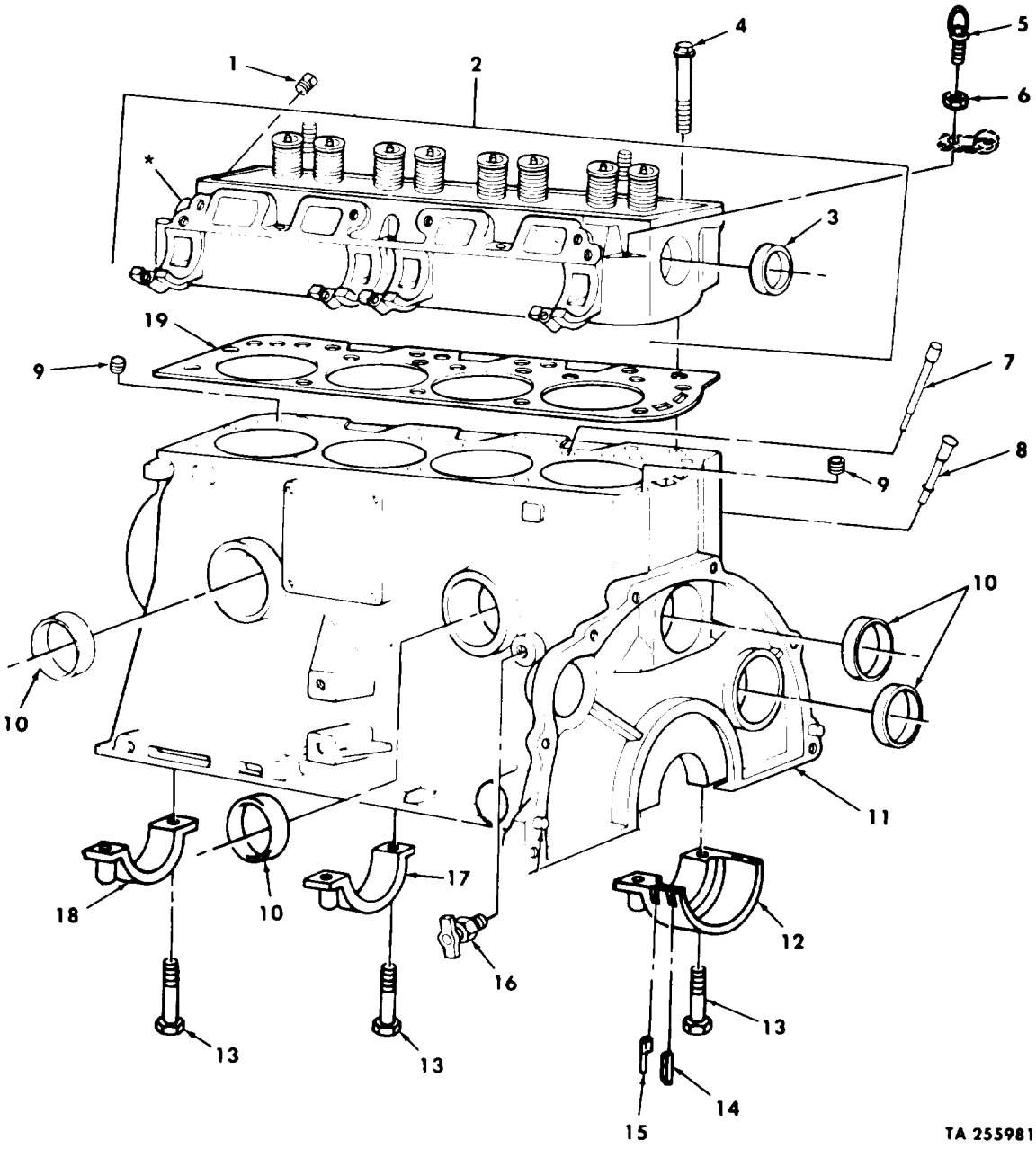


Figure 1. Engine and Mounting Parts.

TA 255980

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 01 ENGINE	
				0100 ENGINE ASSEMBLY	
				FIGURE 1 ENGINE AND MOUNTING PARTS	
1	PAOZZ	19207	10884988	BOLT,MACHINE.....	4
2	PAOZZ	96906	MS35338-47	WASHER,LOCK.....	8
3	PAOZZ	96906	MS90727-88	SCREW,CAP,HEXAGON H.....	4
4	PAOZZ	96906	MS27183-16	WASHER,FLAT.....	2
5	PAOZZ	19207	8754676	MOUNT,RESILIENT REAR PART OF KIT P/N 5702254.....	2
6	PAOZZ	19207	8754679	MOUNT,RESILIENT REAR PART OF KIT P/N 5702254.....	2
7	PAFFH	19207	11660530	ENGINE,GASOLINE.....	1
8	PAOZZ	19207	8754683	MOUNT,RESILIENT FRONT PART OF KIT P/N 5702254.....	2
9	PAOZZ	19207	8754216	MOUNT,RESILIENT FRONT PART OF KIT P/N 5702254.....	2
10	PAOZZ	19207	11630497	MOUNT,ENGINE,LEFT FRONT.....	1
11	PAOZZ	19207	11630498	MOUNT,ENGINE,RIGHT FRONT.....	1

END OF FIGURE



* PART OF ITEM 2
FOR BREAKDOWN SEE FIGURE 10

Figure 2. Engine Block, Cylinder Head, and Related Parts.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 0101 CRANKCASE, BLOCK, CYLINDER HEAD	
				FIGURE 2 ENGINE BLOCK, CYLINDER HEAD, AND RELATED PARTS	
1	PAOZZ	80212	S29442	PLUG,PIPE.....	1
2	PAFFF	19207	11681717-1	CYLINDER HEAD.....	1
3	PAFZZ	19207	8754437	.PLUG,EXPANSION.....	1
4	PAFZZ	19207	11630424	BOLT,EXTERNALLY.....	10
5	PAOZZ	96906	MS51937-3	BOLT,EYE.....	1
6	PAOZZ	96906	MS35691-17	NUT,PLAIN,HEXAGON.....	1
7	PAFZZ	19207	8754612	TUBE,METALLIC DISTRIBUTOR GEAR OIL.	1
8	PAOZZ	19207	8754613	GUIDE,OIL LEVEL IND.....	1
9	PAFZZ	19207	8754614	BUSHING,SLEEVE.....	2
10	PAFZZ	19207	8754412	PLUG,EXPANSION.....	4
11	XAHZZ	19207	8754607	BLOCK.....	1
12	XAHZZ	19207	8754611	CAP,CRANKSHAFT REAR.....	1
13	PAHZZ	96906	MS35764-256	BOLT,SELF-LOCKING.....	6
14	KFHZZ	19207	8754583	SEAL REAR CRANKSHAFT CAP PART OF KIT P/N 5702198 PART OF KIT P/N 5702215.....	2
15	KFHZZ	19207	8754584	SEAL REAR CRANKSHAFT CAP PART OF KIT P/N 5702198 PART OF KIT P/N 5702215.....	2
16	PAOZZ	96906	MS35782-5	COCK,DRAIN.....	1
17	XAHZZ	19207	8754610	CAP,CRANKSHAFT CENTER.....	1
18	XAHZZ	19207	8754609	CAP,CRANKSHAFT FRONT.....	1
19	PAFZZ	19207	8754617	GASKET PART OF KIT P/N 5702198 PART OF KIT P/N 5702206.....	1

END OF FIGURE

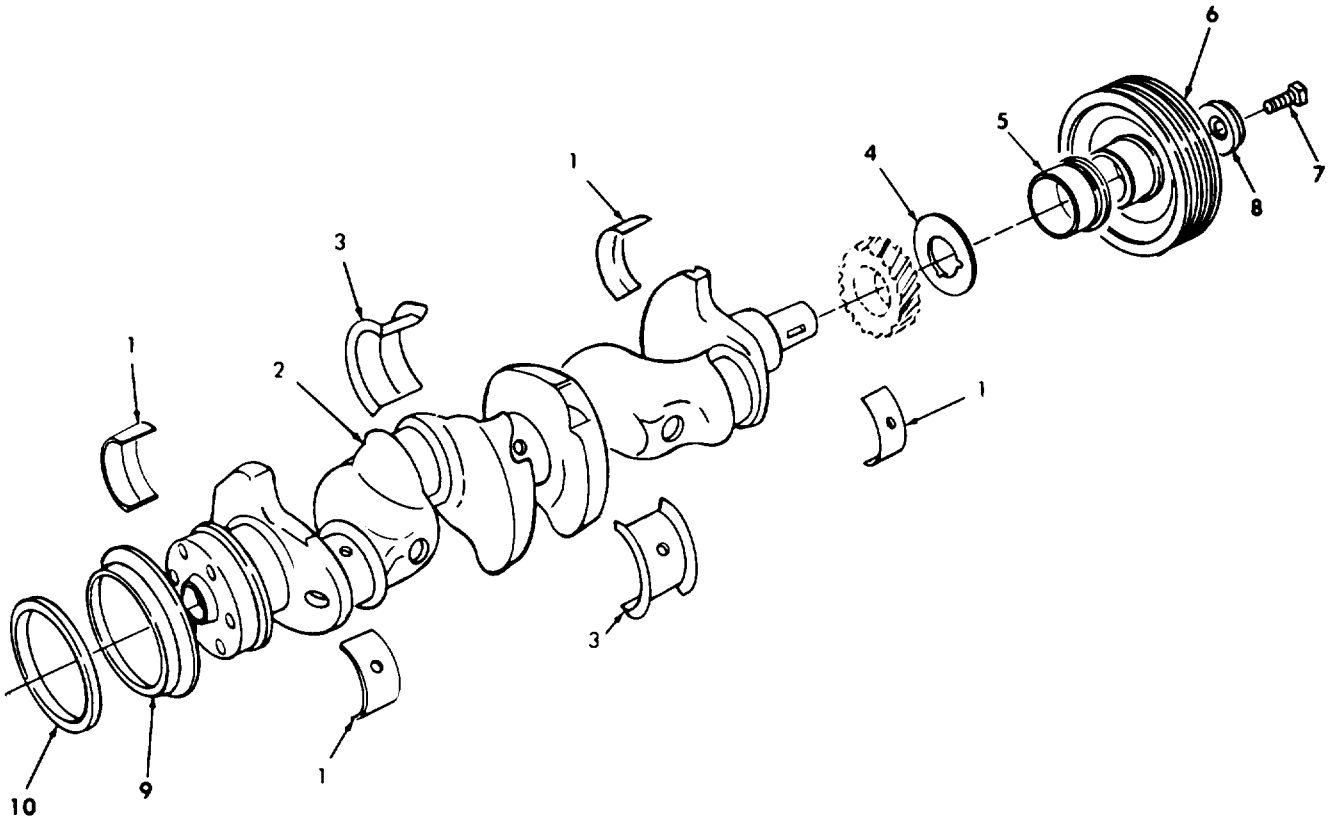


Figure 3. Crankshaft and Related Parts.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 0102 CRANKSHAFT	
				FIGURE 3 CRANKSHAFT AND RELATED PARTS	
1	KFHZZ	19207	8754648	BEARING FRONT AND REAR,STANDARD PART OF KIT P/N 5702200.....	4
1	KFHZZ	19207	7345220	BEARING FRONT AND REAR, .010 UNDERSIZE PART OF KIT P/N 5702201...	4
1	KFHZZ	19207	7345221	BEARING FRONT AND REAR, .020 UNDERSIZE PART OF KIT P/N 5702202...	4
1	KFHZZ	19207	7345222	BEARING FRONT AND REAR, .030 UNDERSIZE PART OF KIT P/N 5702203...	4
2	PAHZZ	19207	8754647	CRANKSHAFT,ENGINE.....	1
3	KFHZZ	19207	8754649	BEARING CENTER, STANDARD PART OF KIT P/N 5702200.....	2
3	KFHZZ	19207	7345201	BEARING CENTER, .010 UNDERSIZE PART OF KIT P/N 5702201.....	2
3	KFHZZ	19207	7345211	BEARING CENTER, .020 UNDERSIZE PART OF KIT P/N 5702202.....	2
3	KFHZZ	19207	7345212	BEARING CENTER, .030 UNDERSIZE PART OF KIT P/N 5702203.....	2
4	PAFZZ	19207	8754662	DEFLECTOR,DIRT.....	1
5	KFHZZ	80201	085375	SPEEDI SLEEVE PART OF KIT P/N 5704521.....	1
6	PAOZZ	19207	11599022	PULLEY,GROOVE 60 AMP ALTERNATOR....	1
6	PAOZZ	19207	8754660	PULLEY,GROOVE 25 AMP GENERATOR.....	1
7	PAOZZ	96906	MS90726-135	SCREW,CAP,HEXAGON H.....	1
8	PAOZZ	19207	8754661	WASHER,FLAT.....	1
9	KFHZZ	80201	085376	SPEEDI SLEEVE PART OF KIT P/N 5704520.....	1
10	PAFZZ	19207	11598936	SEAL,PLAIN ENCASED PART OF KIT P/N 5702198.....	1
				END OF FIGURE	

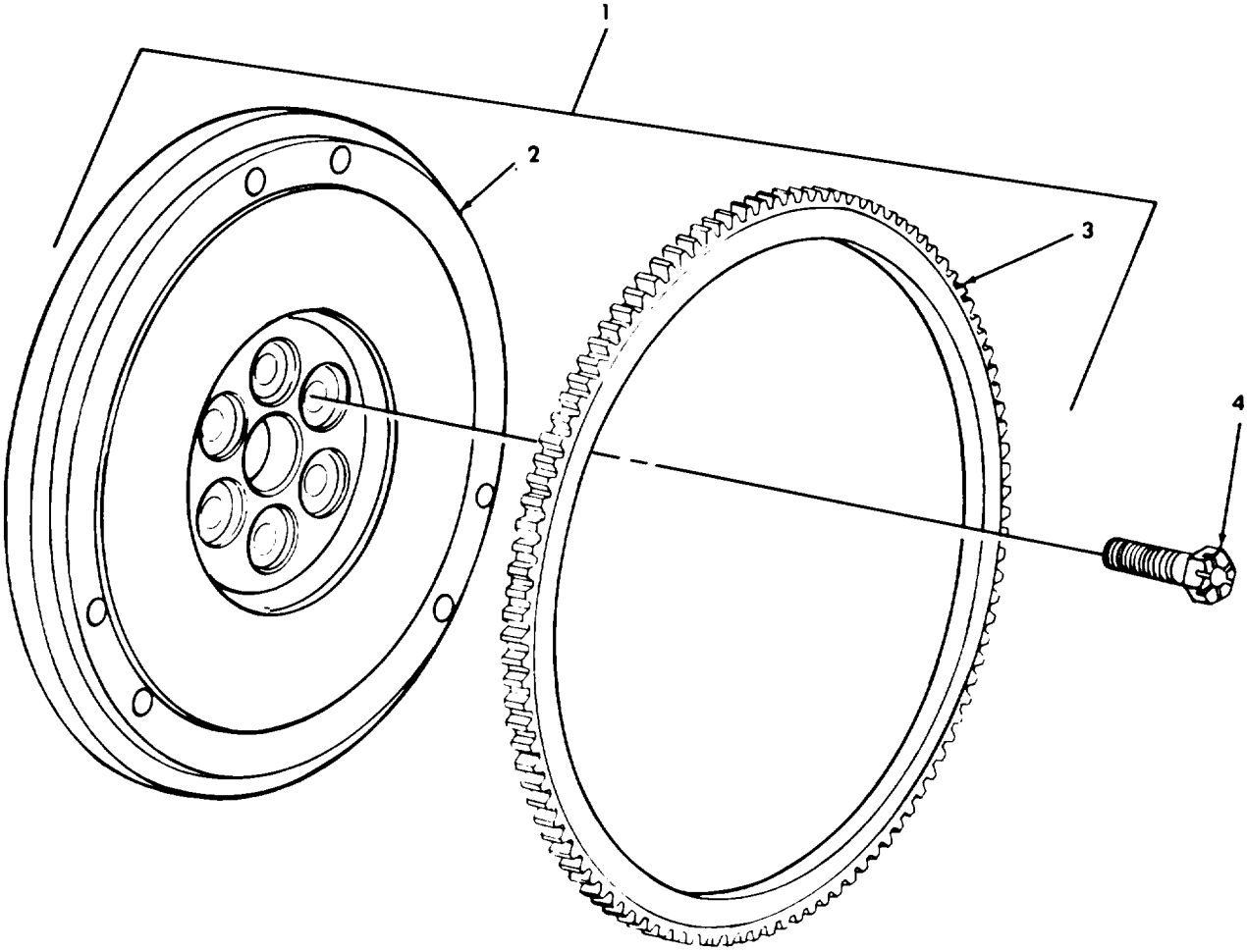


Figure 4. Flywheel Assembly.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 0103 FLYWHEEL ASSEMBLY	
				FIGURE 4 FLYWHEEL ASSEMBLY	
1	PAFZZ	19207	8754625	FLYWHEEL,ENGINE.....	1
2	XAFZZ	19207	8754626	.FLYWHEEL.....	1
3	PAFZZ	19207	8754627	.GEAR,SPUR.....	1
4	PAFZZ	19207	8712322	BOLT,SELF-LOCKING.....	6
				END OF FIGURE	