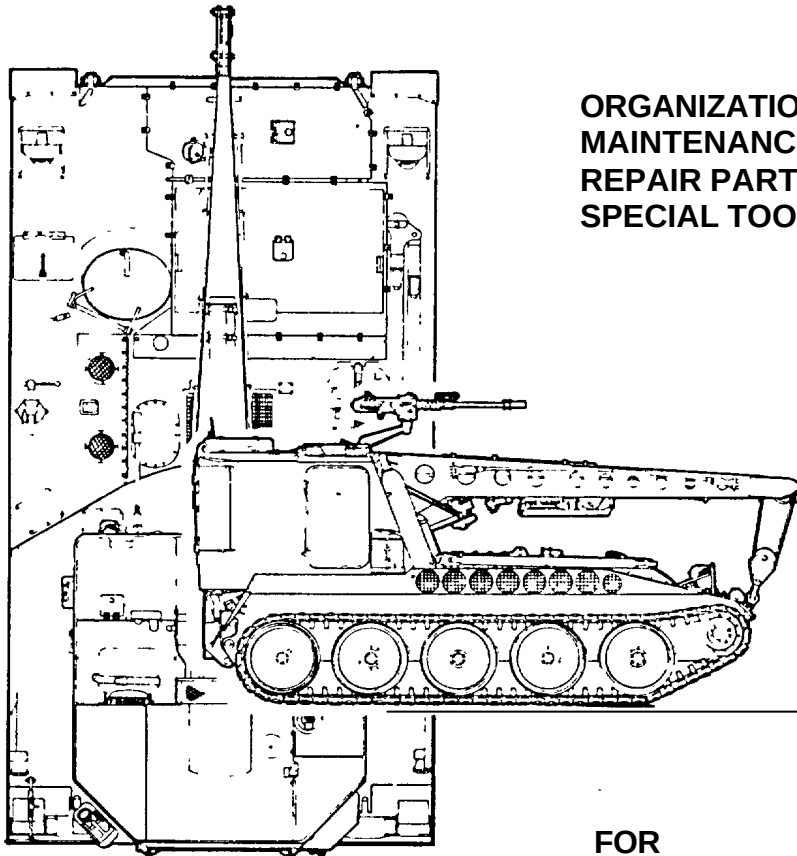

TECHNICAL MANUAL



ORGANIZATIONAL
MAINTENANCE
REPAIR PARTS AND
SPECIAL TOOLS LIST

FOR

RECOVERY VEHICLE,
FULL TRACKED:
LIGHT, ARMORED, M578
(NSN 2350-00-439-6242)

PART I
HULL AND RELATED COMPONENTS
PART II
CRANE (CAB) COMPONENTS

HEADQUARTERS, DEPARTMENT OF THE ARMY
15 APRIL 1982

TECHNICAL MANUAL

NO. 9-2350-238-20P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 15 April 1982

ORGANIZATIONAL MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR

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LIGHT, ARMORED, M578

(NSN 2350-00-439-6242)

REPORTING OF ERRORS

You can help improve this manual. If you find any mistake 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, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished to you.

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Section I. INTRODUCTION

1. Scope.

This manual lists repair parts and special tools required for performance of direct support, and general support maintenance of the recovery vehicle, full tracked; light armored M578.

2. General.

This repair parts list, special tools list and NSN/ Part Number Index is divided into Parts I and II.

Part I is for: Hull and related components

Part II is for: Crane (cab) components

a. Section II, Repair Parts List. A list of repair parts authorized 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 numerical sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.

b. Section III, Special Tools List. A list of special tools authorized for the performance of maintenance. The lowest authorized level of issue and use is indicated by the third position of the SMR code. See paragraph 3b for explanation of codes. Tools authorized and issued to lower levels of maintenance are authorized and issued to all higher levels also.

c. Section IV, National Stock Number and Part Number Index. A list, in ascending National item identification number (NIIN) sequence, of all national stock numbers (NSN) appearing in the listings, 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.

3. Explanation of Columns.

The following provides an explanation of columns found in the tabular listings:

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number.* The number used to identify each item called out in the illustration.

b. Source, Maintenance, and Recoverability Codes (SMR).

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA-Item procured and stocked for anticipated or known usage.	
PB-Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.	
PC-Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.	
PD-Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional issue or outfittings. Not subject to automatic replenishment.	
PE-Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.	
PF-Support equipment which will not be stocked but which will be centrally procured on demand.	
PG-Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.	
KD-An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.	
KF-An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.	
KB-Item included in both a depot overhaul/repair kit and a maintenance kit.	
MO-Item to be manufactured or fabricated at organizational level.	
MF-Item to be manufactured or fabricated at the direct support maintenance level.	
MH-Item to be manufactured or fabricated at the general support maintenance level.	
MD-Item to be manufactured or fabricated at the depot maintenance level.	
AO-Item to be assembled at organizational level.	
AF-Item to be assembled at direct support maintenance level.	
AH-Item to be assembled at general support maintenance level.	
AD-Item to be assembled at depot maintenance level.	
XA-Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.	
XB-Item is not procured or stocked. If not available through salvage requisition.	
XC-Installation drawing, diagram, instruction sheet, field service drawing that is identified by manufacturer's part number.	
XD-A support item that is not stocked. When required, item will be procured through normal supply channels.	

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance codes entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application/Explanation
C-Crew or operator maintenance performed within organizational maintenance.	
O-Support item is removed, replaced, used at the organizational level.	
F-Support Item is removed, replaced, used at the direct support level.	
H-Support item is removed, replaced, used at the general support level.	
D-Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.	

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
O-The lowest maintenance level capable of complete repair of the support item is the organizational level.	
F-The lowest maintenance level capable of complete repair of the support item is the direct support level.	
H-The lowest maintenance level capable of complete repair of the support item is the general support level.	
D-The lowest maintenance level capable of complete repair of the support item is the depot level, performed by depot, mobile depot or specialized repair activity.	
L-Repair restricted to designated specialized repair activity.	
Z-Nonreparable. No repair is authorized.	
B-No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.	

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability

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

c. *National Stock Number.* indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. *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 or items.

NOTE

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

e. *Federal Supply Code for Manufacturer (FSCM).* The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. *Description.* Indicates the Federal item name and, if required, a minimum description to identify the item. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column.

g. *Unit of Measure (U/M).* Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., in, per, etc.). When the unit

of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. 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 no specific quantity is applicable, (e.g., shims, spacers, etc.).

4. Special Information.

a. Detailed manufacturing instructions for items source coded to be manufactured or fabricated are found in TM 9-2350-238-20 maintenance manual. Bulk materials required to manufacture items are listed in the Bulk Material Group of this manual.

b. Detailed assembly instructions for items source coded to be assembled are found in TM 92350-238-20 maintenance manual. Assembly components are listed immediately following the item to be assembled.

c. Repair parts kits and gasket sets appear as the last entries in the repair parts listing for the figure in which its parts are listed as repair parts.

NOTE

"P" source coded items with missing National stock numbers are items which are not recorded in the Army master data file (AMDF) and cannot be requisitioned from the supply system. When these stock numbers are broadcast in the AMDF, they will be provided by a change to the manual. If justified, these items may be requisitioned on an exception basis using the Army part number or manufacturer's part number and code.

d. The following publications pertain to M578 vehicle and its components:

LO 9-2350-238-12

Lubrication Order

TM 9-2350-238-10

Operator's Manual

TM 9-2350-238-20

Organizational Maintenance Manual

TM 9-2350-238-34-1

Direct and General Support Maintenance Manual:
Hull and Related Components

TM 9-2350-238-34-2

Direct and General Support Maintenance Manual:
Crane (cab) Components

TM 9-2350-238-34P-1

Direct Support and General Support Maintenance
Repair Parts and Special Tools Lists (Including
Depot Maintenance Repair Parts and Special Tools):
Hull and Related Components

TM 9-2350-238-34P/2

Direct Support and General Support Maintenance
Repair Parts and Special Tools Lists (Including
Depot Maintenance Repair Parts and Special Tools):
Crane (cab) Components

TM 9-2520-234-34P

Direct Support and General Support Maintenance
Repair Parts and Special Tools List (Including Depot
Maintenance Allowances) for Power Train Assembly
(8351100) (Allison Model XTG-411-2A)

TM 9-2520-234-35

Field and Depot Maintenance Manual for Power
Train Assembly (8351100) (Allison Model XTG-411-
2A)

TM 9-2815-202-34&P

Direct Support and General Support Maintenance
Manual Including Repair Parts and Special Tools
List (Including Depot Maintenance Allowances) for
Engine, Diesel, Turbocharged, Fuel Injected, Liquid -
Cooled, "V" Type, 8-Cylinder, W/Container,
Assembly Detroit Diesel GMC Series 8V71T Model
7083-7398 and Detroit Diesel-GMC Series 8V71T
model 7083-7399

TM 9-2920-224-35

Field and Depot Maintenance Manual (Including
Field and Depot Maintenance Repair Parts Lists):
Generator, Engine Assembly (300-Amp)

5. How to Locate Repair Parts.

a. When National Stock Number or Part Number is Unknown:

(1) *First.* Using the table of contents, determine the functional subgroup within which the repair part belongs. This is necessary since illustrations are prepared for functional subgroups, and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the subgroup to which the repair part belongs.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National Stock Number Part is Known:

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent national stock number or part number. This index

is in ascending NIIN sequence, followed by a list of part numbers in ascending alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the reparts list.

6. Abbreviations.

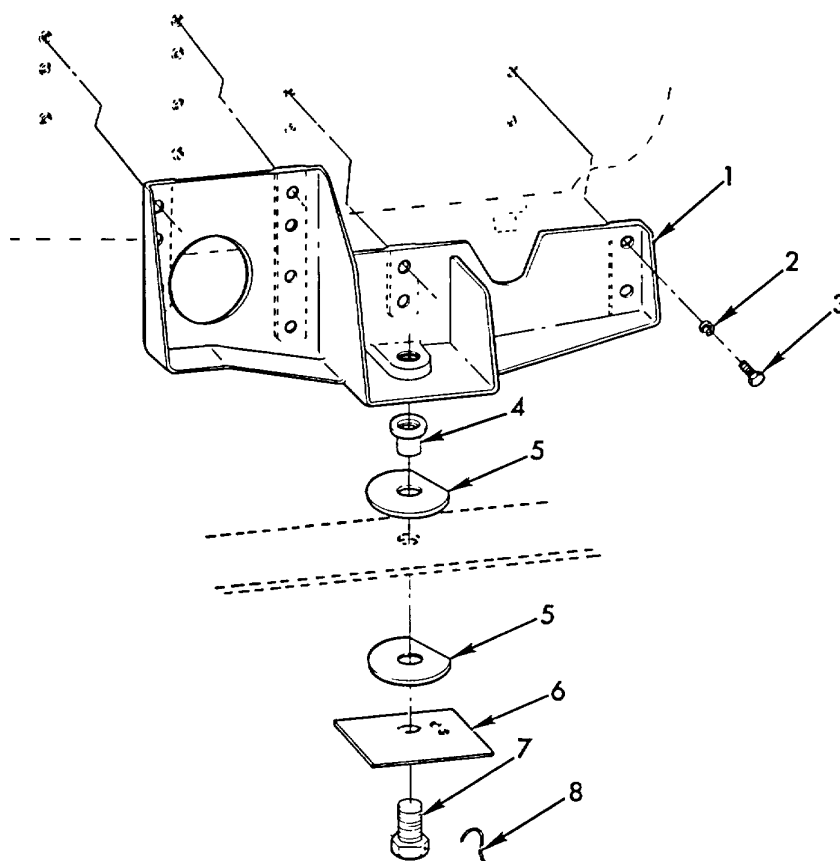
The abbreviations used in this publication are common in trade practice and MIL-STD-12, Military standard abbreviations for use on drawings, specifications, standards and in technical documents.

Abbreviation/Explanation

ARR	Arrangement	NC	National Coarse
ASSY	Assembly	NF	National Fine
CONT	Contact	NO	Number
COP	Copper	NOM	Nominal
CS	Carbon Steel	NPTF	Tight Joints
CSK	Countersink	NS	Near Side
CSKH	Countersink Head	OA	Over-All
CTSK	Countersunk	OD	Outside Diameter
CU FT	Cubic Foot	OVS	Oversize
CYL	Cylinder	PLSTC	Plastic
DEG	Degree	PSI	Pounds Per Square
DIA	Diameter		Inch
ELEC	Electric	PT	Point
ELEC	Electrical	RAD	Radius
ELECT	Electrical	RBR	Rubber
EXTL	External	RD	Round
FILH	Fillister Head	RGLR	Regular
FL	Flat	RH	Right Hand
FTF	Flared Tube Fitting	RLVD	Relieved
GA	Gage	RS	Right Side
GR	Grade	RTNG	Retaining
GS	General Support	SKT	Socket
H	High	SLTD	Slotted
HD	Head	SQ	Square
HDLS	Headless	STD	Standard
HEX	Hexagon	STK	Stock
HEX SCH	Hexagon Socket	STL	Steel
HEX SKT	Hexagon Socket	STR	Straight
ID	Inside Diameter	SYNTH	Synthetic
IN	Inch	THD	Thread
INT	Internal	THK	Thick
INTL	Internal	TPG	Tapping
LG	Length	TRAV	Traversing
LH	Left Hand	UN	Unified
LT	Light	UNC	Unified Coarse
LTHR	Leather		Thread
LUBE	Lubrication	UNF	Unified Fine Thread
LUBT	Lubricant	UNIV	Universal
LWR	Lower	V	Voltage
MACH	Machine	V	Variable
MECH	Mechanical	W	Wide
MFD	Manufactured	W/	With
MM	Millimeter	WG	Wire Gage

PART I
HULL AND RELATED COMPONENTS

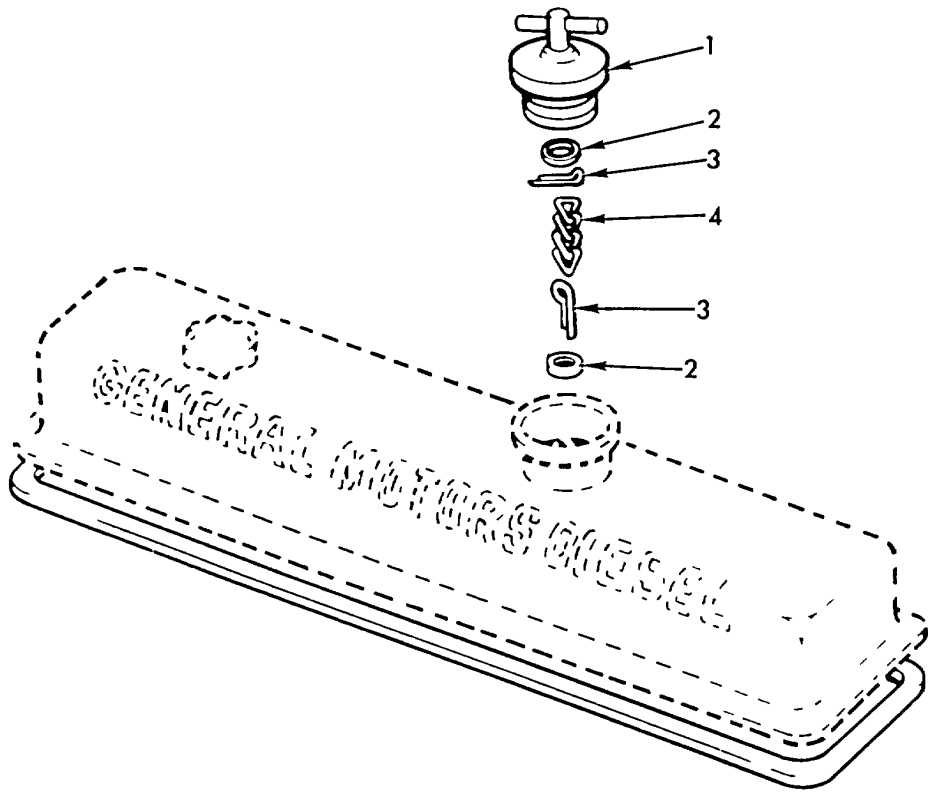
Section II. REPAIR PARTS LIST (PART I)



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Figure 1. Engine Mount.

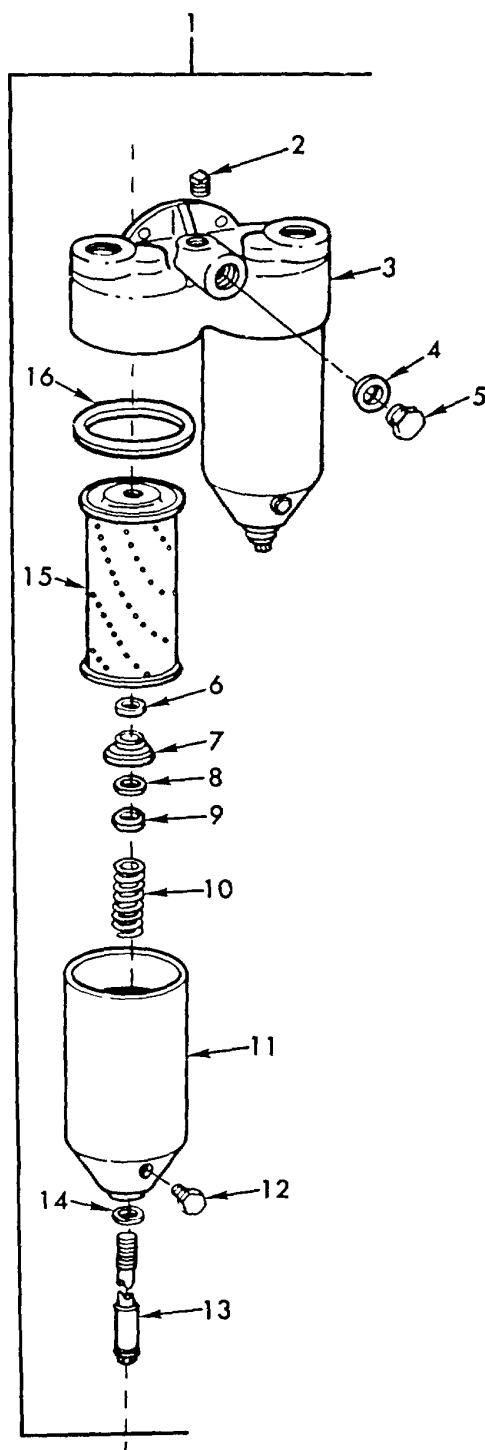
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	U/M	QTY INC IN UNIT
USABLE ON CODES								
GROUP 01 ENGINE								
GROUP 0100 ENGINE MOUNT								
1	1	PAOZZ	2805-00-420-5043	19207	11631501	MOUNT, ENGINE SUPPOR.....	EA	1
1	2	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK 3/8 NOM SIZE.....	EA	12
1	3	PAOZZ	5350-00-060-0511	96906	MS90728-62	SCREW, CAP, HEXAGON H 3/8-16UNC X 1.250.....	EA	12
1	4	PAOZZ	2815-00-937-1322	19207	10898445	TUBE, SPACER, MOUNT, P SPACER	EA	1
1	5	PAOZZ	2990-00-980-1737	19207	10882021	MOUNT, ENGINE SHOCK, ENGINE MOUNT.....	EA	2
1	6	PAOZZ	2805-00-221-9182	19207	10882022	WASHER, ENGINE MOUNT LOCK WIRE PLATE	EA	1
1	7	PAOZZ	5305-00-904-4003	96906	MS51096-513	SCREW, CAP, HEXAGON H 1.0-12UNF X 3.00.....	EA	1
1	8	MOOZZ		96906	MS20995C91AR	WIRE, NONELECTRICAL, MFD FROM 9505-00-825-7579	FT	V



TA071736

Figure 2. Rocker Cover.

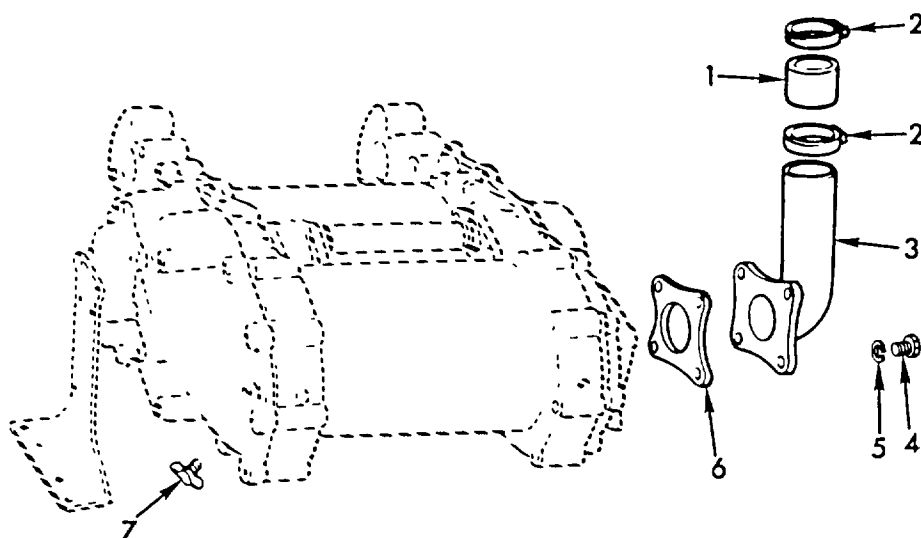
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	U/M	QTY INC IN UNIT
						USABLE ON CODES		
						GROUP 0105 POCKER COVER		
2	1	PAOZZ	2815-00-735-4292	72582	5117362	CAP,FILLER OPENING OIL FILLER,ENGINE	EA	1
2	2	PAOZZ	5310-00-950-1310	21450	218322	WASHER,FLAT 1.8 ID X 5/16	EA	2
2	3	PAOZZ	5315-00-187-9370	96906	MS24665-172	PIN,COTTER 1/16 DIA 3/4 LG	EA	2
2	4	PAOZZ	3805-00-900-2577	72582	5117365	CHAIN,OIL FILLER TO OIL FILTER	EA	1



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Figure 3. Oil Filter Assembly - 5126546.

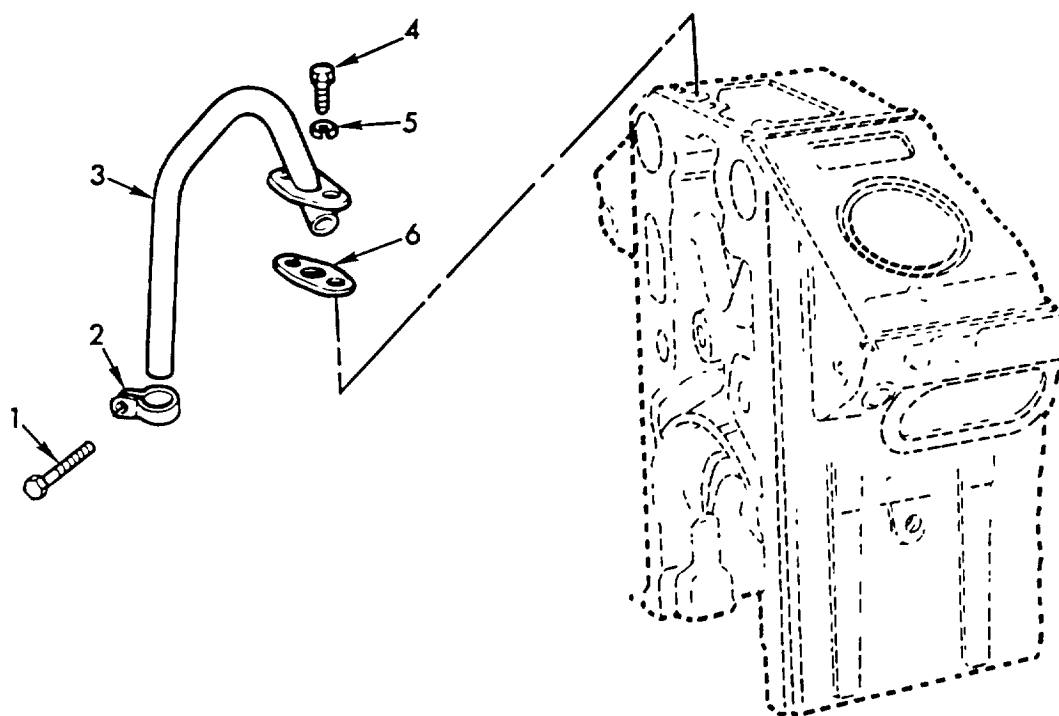
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	U/M	QTY INC IN UNIT
						USABLE ON CODES		
						GROUP 0106 OIL FILTER ASSEMBLY-5126546		
3	1	PAOZZ	2940-00-82-9675	72582	5126546	FILTER,FLUID,PRESSU FLUID,PRESSURE.....	EA	1
3	2	PAOZZ	4730-00-965-1257	72582	5126546	PLUG,PIPE OIL FILTER ASSEMBLY	EA	2
3	3	XAOZZ		72582	5124138	ADAPTER OIL FILTER ASSEMBLY	EA	11
3	4	PAOZZ	5330-00-736-3508	72582	5575086	GASKET NON-METALLIC, OIL FILTER	EA	1
3	5	PAOZZ	5365-00-579-5983	72582	5126686	PLUG, MACHINE THREAD MACHINE THD.....	EA	1
3	6	PBOZZ	5365-00-579-5983	72582	5120602	RING, RETAINING RETAINER	EA	1
3	7	PBOZZ	5330-00-629-6340	72582	5187309	RETAINER,PACKING LUB OIL.....	EA	1
3	8	PBOZZ	5365-00-262-4701	72582	5154538	SPACER, RING RING.....	EA	1
3	9	POOZZ	5310-00-297-6078	24617	853269	WASHER,FLAT OIL FILTER PART OF KIT P/N 5574130	EA	1
3	9	KFOZZ		70040	5573801	WASHER OIL FILTER PART OF KIT P/N 5574130.....	EA	1
3	10	PAOZZ	5360-00-801-8731	72582	5187308	SPRING,HELICAL,COMP HELICAL, COMPRESSION	EA	2
3	11	PAOZZ	2940-00-019-4775	72582	5574008	SHELL, OIL FILTER OIL FILTER	EA	2
3	12	PAOZZ	4820-00-360-8299	72582	5570480	VALVE,PLUG PLUG,DRAIN	EA	1
3	13	PAOZZ	5306-00-870-6222	72582	5120740	BOLT, SHOULDER OIL FILTER	EA	2
3	14	PAOZZ	5330-00-604-8094	72582	5187310	PACKING,PREFORMED OIL FILTER BOLT	EA	2
3	15	PAOZZ	2940-00-580-6283	96906	MS35802-3	FILTER ELEMENT, FLUI FLUID PRESSURE,FULL FLOW W/GASKET	EA	2
3	16	PAOZZ	5330-00-290-7860	70040	5571024	GASKET NON-METALLIC,FILTER ADAPTER	EA	2
3		POOZZ	5330-00-841-5964	72582	5574130	GASKET SET ENGINE OIL FILTER	EA	1
3	9					WASHER,FLAT.....	EA	1
3	9					WASHER	EA	1



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Figure 4. Oil Cooler.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	U/M	QTY INC IN UNIT
						USABLE ON CODES		
						GROUP 0106 OIL COOLER		
4	1	PAOZZ	4720-00-080-6583	19207	11594525	HOSE, NONMETALLIC OIL COOLER TO WATER PUMP	EA	1
4	2	PAOZZ	4730-00-720-1503	19207	7612732	CLAMP, HOSE INLET WATER HOSE,OIL COOLER	EA	2
4	3	PAOZZ	2815-00-933-7636	72582	5127904	ELBOW, ENGINE OIL CO ENGINE OIL	EA	1
4	4	PAOZZ	5305-00-543-2419	19207	7418028	SCREW, CAP, HEXAGON H ENGINE OIL ELBOW	EA	4
4	5	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK 3/8 NOM SIZE.....	EA	4
4	6	PAOZZ	5330-00-844-2903	72582	5124822	GASKET WATER INLET,ELBOW TO OIL COOLER	EA	1
4	7	PAOZZ	4820-00-849-1220	96906	MS35782-5	COCK, DRAIN	EA	1



TA071739

Figure 5. Crankcase Engine Breather

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODES	U/M	QTY INC IN UNIT
GROUP 3136 CRANKCASE ENGINE BREATHER								
5	1	XBOZZ		210501	19092	SCREW, CAP , HEXAGON, HD, 3/8-24JNF X 4.7.....	EA	3
5	2	PAOZZ	5340-00-325-4965	72582	5184291	CLAMP ,LOOP, BREATHER, PIPE.....	EA	2
5	3	XROZZ		72582	5108452	PIPE, BREATHER	EA	1
5	4	PAOZZ	5305-00-269-3211	96906	M1590125-60	SCREW, CAP HEXAGON H 318-16U4C X 1.00.....	EA	2
5	5	PAOZZ	5310-00-637-9541	96906	4S35338-46	WASHER, LOCK 3/8 NOM SIZE	EA	2
5	6	PAOZZ	5330-00-276-1842	72582	512189	GASKET, BREATHER, PIPE.....	EA	1