TECHNICAL MANUAL

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

TRUCK TRACTOR, LINE HAUL,
50,000 GVWR, 6 X 4,
M915A1

NSN 2320-01-125-2640

This manual supersedes TM 9-2320-283-20P DATED 31 JANUARY, 1984 AND TM 9-2320-283-34P DATED 31 JANUARY, 1984 AND ALL CHANGES.

Approved for Public Release; Distribution is Unlimited

HEADQUARTERS, DEPARTMENT OF THE ARMY
NOVEMBER 1990

TECHNICAL MANUAL

TM 9-2320-283-24P*

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington DC. , 30 November 1990

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

TRUCK TRACTOR, LINE HAUL,
50,000 GVWR, 6 X 4,
M915A1
NSN 2320-01-125-2640

Current as of 2 May, 1990

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.

Approved for public release; distribution is unlimited.

SECTION I. INTRODUCTION 1
SECTION II. REPAIR PARTS LIST 1-1

GROUP 01 ENGINE

0100-ENGINE ASSEMBLY 1-1
ENGINE MOUNTS. 1-1 1
ENGINE ASSEMBLY RELATED PARTS 2-1 2
0105-VALVES, CAMSHAFTS AND TIMING SYSTEMS. 3-1
ROCKER COVERS 3-1 3
0106-ENGINELUBRICATION SYSTEM 4-1
OIL FILTER AND RELATED PARTS 4-1 4
OIL PAN, DIPSTICK AND RELATED PARTS 5-1 5
0108-MANIFOLDS 6-1
AIR AFTERCOOLER RELATED PARTS 6-1 6
0109-ACCESSORY DRIVING MECHANISMS 7-1
FAN SUPPORT BRACKET AND RELATED PARTS 7-1 7
0112-ENGINE BRAKE. 8-1
ENGINE RETARDER 8-1 8
0121-COMPRESSOR ASSEMBLY 9-1
AIR COMPRESSOR LINES AND FITTINGS 9-1 9

***SUPERSEDES TM 9-2320-283-20P DATED 31 JANUARY 1984 AND TM 9-2320-283-34P DATED 31 JANUARY 1984.**

TABLE OF CONTENTS

	PAGE	ILLUS FIG
GROUP 03 FUEL SYSTEM		
0302-FUEL PUMPS.	10-1	
FUEL LINES AND FITTINGS .	10-1	10
FUEL PUMP MAIN HOUSING FILTER	11-1	11
0304-AIR CLEANER	12-1	
AIR CLEANER ASSEMBLY	12-1	12
0305-TURBOCHARGER.	13-1	
AIR INTAKE MANIFOLD	13-1	13
0306-TANKS, LINES, FITTINGS, HEADERS	14-1	
SOLENOID VALVE.	14-1	14
FUELTANKASSEMBLY	15-1	15
FUEL HEATER, LINES AND FITTINGS	16-1	16
0309-FUEL FILTERS.	17-1	
WATER SEPARATOR FILTER.	16-1	17
0311-ENGINE STARTING AIDS	18-1	
ETHER QUICK START KIT	18-1	18
0312-ACCELERATOR, THROTTLE OR CHOKE CONTROLS	19-1	
FUEL CONTROL LEVER.	19-1	19
ACCELERATOR PEDAL AND LINKAGE	20-1	20
GROUP 04 EXHAUST SYSTEM		
0401-MUFFLER AND PIPES	21-1	
EXHAUST SYSTEM	21-1	21
GROUP 05 COOLING SYSTEM		
0501-RADIATOR. .	22-1	
RADIATOR ASSEMBLY. .	22-1	22
RADIATOR ASSEMBLY-EXPLODED VIEW	23-1	23
0502-SHROUDS	24-1	
RADIATOR SHROUDS	24-1	24
0503-WATER MANIFOLDS, HEADERS, THERMOSTATS AND HOUSING GASKET	25-1	
THERMOSTAT HOUSING, WATER MANIFOLD AND WATER FILTER.	25-1	25
RADIATOR LINES AND FITTINGS	26-1	26
0504-WATER PUMP.	27-1	
WATER PUMP AND IDLER	27-1	27
0505-FAN ASSEMBLY.	28-1	
FAN, FAN CLUTCH AND ACTUATOR	28-1	28
GROUP 06 ELECTRICAL SYSTEM		
0601-GENERATOR, ALTERNATOR .	29-1	
ALTERNATOR ASSEMBLY	29-1	29
ALTERNATOR ASSEMBLY-EXPLODED VIEW.	30-1	30
ALTERNATOR ASSEMBLY ATTACHING HARDWARE	31-1	31
0603-STARTING MOTOR	32-1	
STARTER ASSEMBLY	32-1	32
STARTING MOTOR-EXPLODED VIEW	33-1	33
0607-INSTRUMENT OR ENGINE CONTROL PANEL	34-1	
GAGES, SWITCHES AND INSTRUMENT PP. NEL LIGHTS.	34-1	34
DIRECTIONAL CONTROL ASSEMBLY AND CONTROL PEDAL.	35-1	35
REMOTE CONTROL LEVER AND PUSH SWITCH	36-1	36
0609-LIGHTS	37-1	
HEADLIGHT AND RELATED PARTS	37-1	37

TABLE OF CONTENTS

	PAGE	ILLUS FIG
CLEARANCE MARKER LIGHT, DIRECTIONAL LIGHTS AND RELATED PARTS	38-1	38
BLACKOUT LIGHT,HEADLIGHT AND RELATED PARTS	39-1	39
BLACKOUT STOPLIGHT, TAILLIGHT AND RELATED PARTS	40-1	40
MAP LIGHT, DOME LIGHTS AND RELATED PARTS.	41-1	41
0610-SENDING UNITS AND WARNING SWITCHES.	42-1	
ENGINE AND TRANSMISSION TEMPERATURE TRANSMITTERS AND RELATED PARTS .	42-1	42
SENDING UNITS AND WARNING SWITCHES.	43-1	43
CONTROL PANEL SENDING UINTS AND RELATED PARTS	44-1	44
0611-HORN, SIREN	45-1	
HORN AND HORN BUTTON	45-1	45
0612-BATTERIES, STORAGE. .	46-1	
BATTERY BOX AND COVER. .	46-1	46
BATTERY BOX RELATED PARTS	47-1	47
BATTERY AND RELATED PARTS	48-1	48
0613-CHASSIS WIRING HARNESS	49-1	
WIRING HARNESSES (FIREWALL TO FENDERS)	49-1	49
WIRING HARNESSES (SIGNAL LAMPS AND MARKER LIGHTS)	50-1	50
WIRING HARNESSES (CAB TO FRAME, ENGINE TO FRAME, BLACKOUT MARKER LAMP, BLACKOUT HEADLAMP)	51-1	51
CHASSIS WIRING HARNESS	52-1	52
CAB FRONT AND UNDERBODY WIRING HARNESS	53-1	53
ENGINE WIRING HARNESS	54-1	54
INSTRUMENT PANEL WIRING HARNESS	55-1	55
WIRING HARNESS ATTACHING HARDWARE.	56-1	56
GROUP 07 TRANSMISSION		
0700-TRANSMISSION ASSEMBLY.	57-1	
TRANSMISSION MOUNTS.	57-1	57
0705-GEAR SHIFT, VACUUM BOOSTER AND CONTROLS	58-1	
TRANSMISSION CONTROLS.	58-1	58
0708-TORQUE CONVERTER.	59-1	
TORQUE CONVERTER	59-1	59
0710-TRANSMISSION ASSEMBLY.	60-1	
TRANSMISSION ASSEMBLY.	60-1	60
CONVERTER HOUSING	61-1	61
FRONT SUPPORT	62-1	62
INPUT SHAFT. .	63-1	63
MAIN GEAR UNIT.	64-1	64
TRANSMISSION HOUSING	65-1	65
REAR HOUSING.	66-1	66
0713-INTERMEDIATE CLUTCH	67-1	
FOURTH CLUTCH	67-1	67
THIRD AND SECOND CLUTCH	68-1	68
FIRST AND REVERSE CLUTCH	69-1	69
LOW CLUTCH. .	70-1	70
0714-SERVO UNIT.	71-1	
CONTROLVALVE	71-1	71
TRIMMER VALVES	72-1	72
0721-COOLERS, PUMPS, MOTORS	73-1	
OIL CHARGING PUMP	73-1	73
COOLER AND FILTER LINES AND FITTINGS	74-1	74

TABLE OF CONTENTS

	PAGE	ILLUS FIG
GROUP 09 PROPELLER AND PROPELLER SHAFTS		
0900-PROPELLER SHAFTS	75-1	
PROPELLER SHAFTS	75-1	75
GROUP 10 FRONTAXLE		
1000-FRONT AXLE ASSEMBLY	76-1	
FRONT STEERING AXLE	76-1	76
1004-STEERING AND LEANING WHEEL MECHANISM	77-1	
STEERING MECHANISM FRONT AXLE	77-1	77
GROUP 11 REAR AXLE		
1100-REAR AXLE ASSEMBLY. .	78-1	
REAR TANDEM.	78-1	78
1101-HOUSING	79-1	
REAR AXLE HOUSING. .	79-1	79
1102-DIFFERENTIAL.	80-1	
FORWARD REAR DIFFERENTIAL	80-1	80
REAR REAR DIFFERENTIAL	81-1	81
GROUP 12 BRAKES		
1202-SERVICE BRAKES.	82-1	
SLACK ADJUSTER	82-1	82
BRAKE ASSEMBLY, FRONT	83-1	83
BRAKE ASSEMBLY, REAR	84-1	84
1208-AIR BRAKE SYSTEM.	85-1	
AIR LINES AND FITTINGS	85-1	85
AIR LINE BRACKET AND TIES	86-1	86
BRAKE TREADLE VALVE	87-1	87
BRAKE VALVE-EXPLODED VIEW	88-1	88
BRAKE CHAMBER, FRONT	89-1	89
BRAKE CHAMBER, FORWARD REAR	90-1	90
BRAKE CHAMBER, REAR REAR	91-1	91
AIR RESERVOIRS.	92-1	92
AIR DRYER ASSEMBLY	93-1	93
1209-AIR COMPRESSOR ASSEMBLY	94-1	
AIR COMPRESSOR GOVERNOR	94-1	94
1211-TRAILER BRAKE CONNECTIONS AND CONTROLS.	95-1	
TRAILER HAND BRAKE VALVE	95-1	95
GROUP 13 WHEELS AND TRACKS		
1311 -WHEEL ASSEMBLY	96-1	
WHEEL ASSEMBLY. 96-1	96-1	
HUB AND DRUM, FRONT97-1	97-1	
HUB AND DRUM, REAR98-1	98-1	
1313-TIRES	99-1	
TIRE	99-1	99
GROUP 14 STEERING		
1401-MECHANICAL STEERING GEAR ASSEMBLY	100-1	
STEERING COLUMN, UPPER	100-1	100
STEERING COLUMN, LOWER	101-1	101
STEERING LINKAGE	102-1	102
1407-POWER STEERING GEAR ASSEMBLY	103-1	
STEERING GEAR MOUNTING	103-1	103

TABLE OF CONTENTS

	PAGE	ILLUS FIG
STEERING GEAR ASSEMBLY	104-1	104
1410-HYDRAULIC PUMP OR FLUID MOTOR ASSEMBLY	105-1	
POWER STEERING PUMP	105-1	105
1411-HOSES, LINES, FITTINGS.	106-1	
POWER STEERING COOLER LINES AND FITTINGS	106-1	106
GROUP 15 FRAME, TOWING ATTACHMENTS AND DRAWBARS		
1501-FRAME ASSEMBLY. .	107-1	
FRAME ASSEMBLY, FRONT.	107-1	107
FRAME ASSEMBLY, CENTER.	108-1	108
FRAME ASSEMBLY, REAR	109-1	109
BUMPER AND BRUSH GUARD	110-1	110
1503-PINTLES AND TOWING ATTACHMENTS	111-1	
PINTLE HOOK AND TOW EYE .	111-1	111
1504-SPARE WHEEL CARRIER AND TIRE LOCK	112-1	
SPARE TIRE CARRIER AND DECK PLATES	112-1	112
SPARE TIRE HOIST	113-1	113
1506-FIFTH WHEEL	114-1	
FIFTH WHEEL ASSEMBLY AND RAMPS	114-1	114
FIFTH WHEEL PLATE ATTACHING HARDWARE	115-1	115
GROUP 16 SPRINGS AND SHOCK ABSORBERS		
1601-SPRINGS	116-1	
FRONT SUSPENSION ASSEMBLY.	116-1	116
FRONT LEAF SPRING ASSEMBLY	117-1	117
TANDEM AXLE SUSPENSION.	118-1	118
BEAM ASSEMBLY EQUALIZER AND BEAM END ADAPTER ASSEMBLY .	119-1	119
1604-SHOCK ABSORBING EQUIPMENT	120-1	
SHOCK ABSORBER	120-1	120
1605-TORQUE, RADIUS AND STABILIZER RODS	121-1	
TORQUE ROD ASSEMBLY	121-1	121
GROUP 18 BODY, CAB, HOOD AND HULL		
1801-BODY, CAB, HOOD AND HULL ASSEMBLIES.	122-1	
CAB ASSEMBLY, HULL	122-1	122
INTERIOR CAB ASSEMBLY COMPONENTS	123-1	123
DOOR ASSEMBLY COMPONENTS	124-1	124
DOOR ASSEMBLY AND RELATED PARTS	125-1	125
RADIATOR GRILLE	126-1	126
HOOD	127-1	127
1802-FENDERS, WINDSHIELD, GLASS.	128-1	
FENDER ASSEMBLY.	128-1	128
WINDSHIELD, DOOR GLASS AND SLIDING REAR WINDOW.	129-1	129
SLIDING REAR WINDOW-EXPLODED VIEW	130-1	130
1806-UPHOLSTERY, SEATS AND CARPETS	131-1	
FLOOR MATS AND CAB TRIM	131-1	131
SUN VISOR.	132-1	132
DRIVER'S SEAT	133-1	133
COMPANION SEAT	134-1	134
1808-STOWAGE RACKS, BOXES, STRAPS, CARRYING CASES, CABLE REELS, HOSE REELS	135-1	
SEAT RISER AND TOOL BOX	135-1	135

TABLE OF CONTENTS

	PAGE	ILLUS FIG
GROUP 22 BODY, CHASSIS OR HULL ACCESSORY ITEMS		
2202-ACCESSORY ITEMS .	136-1	
SIDE MIRRORS	136-1	136
MIRRORS, SPOTTER.	137-1	137
AIR HORN. .	138-1	138
WINDSHIELD WASHER AND WIPERS	139-1	139
HEATER AND DEFROSTER LINES AND FITTINGS.	140-1	140
HEATER ASSEMBLY.	141-1	141
AIR DIFFUSER ASSEMBLY	142-1	142
HEATER CONTROL PANEL	143-1	143
DEFROSTER FANS.	144-1	144
2210-DATA PLATES AND INSTRUCTION HOLDERS	145-1	
EXTERIOR DATA PLATES	145-1	145
INTERIOR DATA PLATES	146-1	146
GROUP 47 GAGES (NONELECTRICAL),WEIGHING AND MEASURING DEVICES		
4701-INSTRUMENTS (SPEED AND DISTANCE)	147-1	
TACHOGRAPHS AND CABLES	147-1	147
4702-GAGES, MOUNTINGS,LINES AND FITTINGS.	148-1	
AIR PRESSURE GAGES.	148-1	148
GROUP 67 PRECISION INSTRUMENTS AND SYSTEMS		
6715-SPECIAL ELECTRONIC TEST EQUIPMENT, MOUNTED OR PORTABLE	149-1	
SIMPLIFIED TEST EQUIPMENT- INTERNAL COMBUSTIBLE ENGINE (STE/ICE).	149-1	149
GROUP 95 REPAIR KITS		
9501-REPAIR KITS	KIT-1	
KIT	KIT-1	KIT
GROUP 95 GENERAL USE STANDARIZED PARTS		
9501-BULK MATERIEL	BULK-1	
BULK.	BULK-1	BULK
SECTION III SPECIAL TOOLS LIST		
GROUP 26 TOOLS AND TEST EQUIPMENT		
2604-SPECIAL TOOLS.	150-1	
UNIT TOOL LIST.	150-1	150
DIRECT SUPPORT TOOL LIST	151-1	151
GENERAL SUPPORT TOOL LIST	152-1	152
SECTION IV. CROSS REFERENCE INDEXES		
NATIONAL STOCK NUMBER INDEX	I-1	
PART NUMBER INDEX	I-31	
FIGURE AND ITEM NUMBER INDEX	I-99	

UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS (INCLUDING DEPOT MAINTENANCE PARTS)

SECTION 1. 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 Truck, Tractor, Line Haul, M915A1. 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).

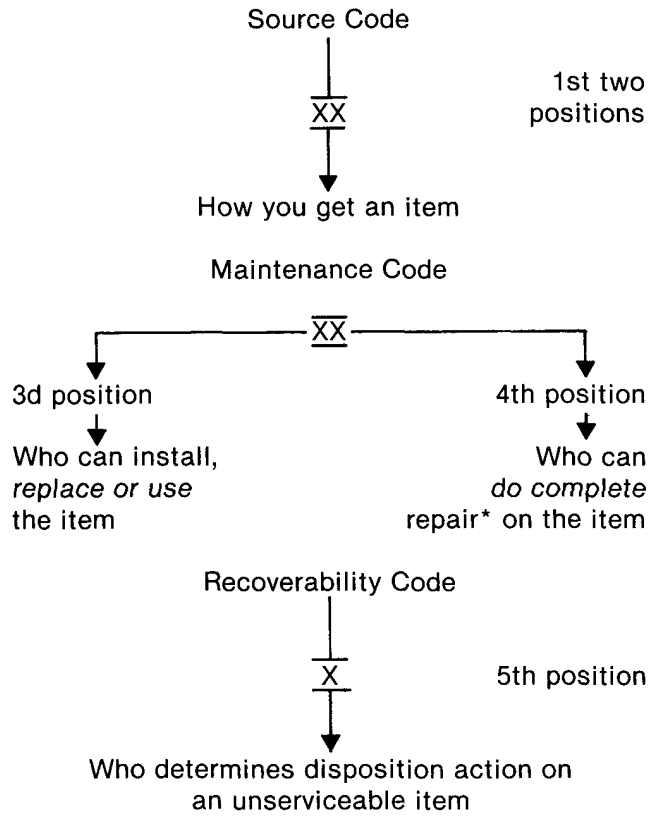
b. *Section III. Special Tools List.* A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

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, CAGE and part numbers.

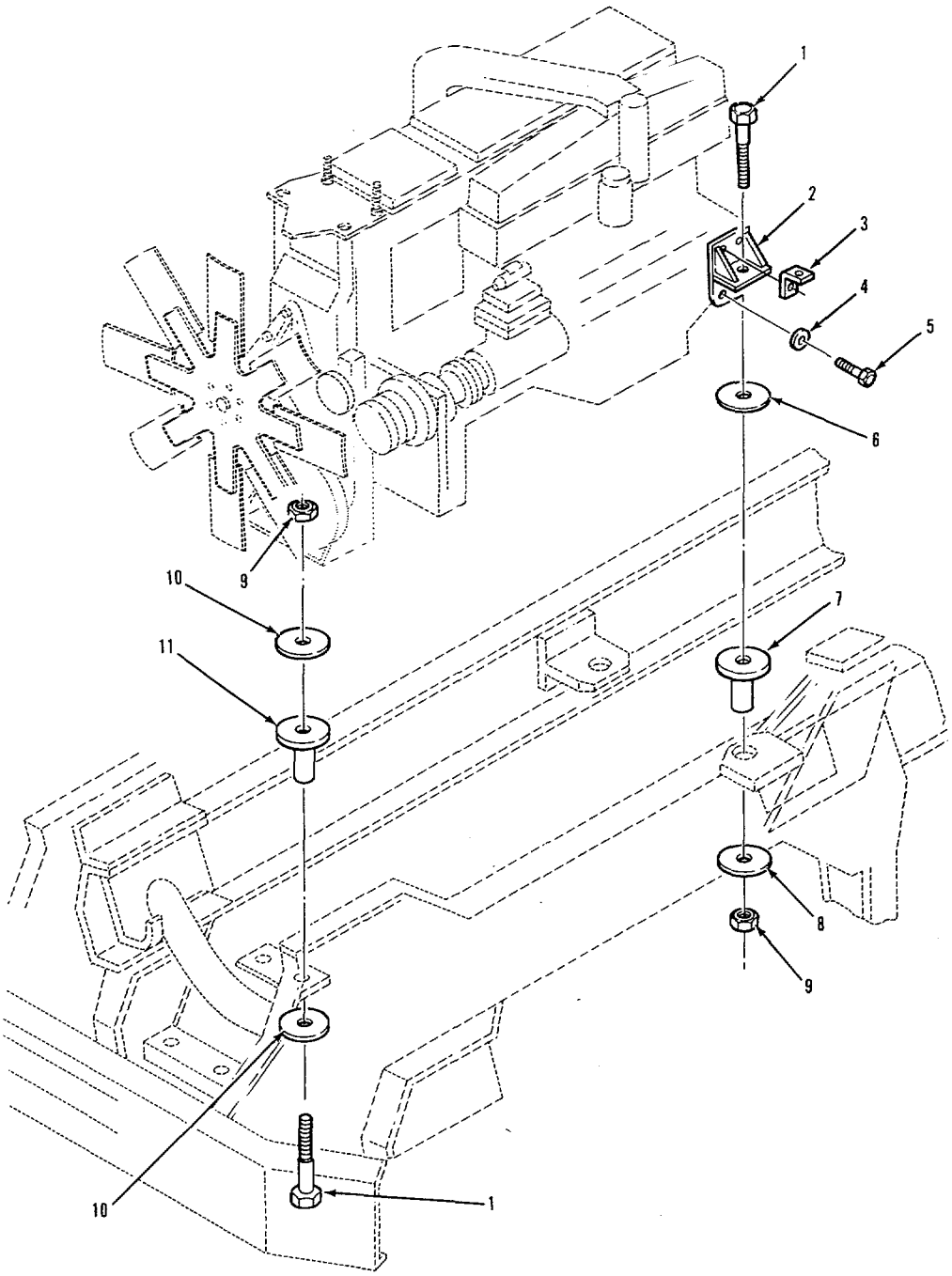
3. Explanation of Columns (Sections II and III).

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:



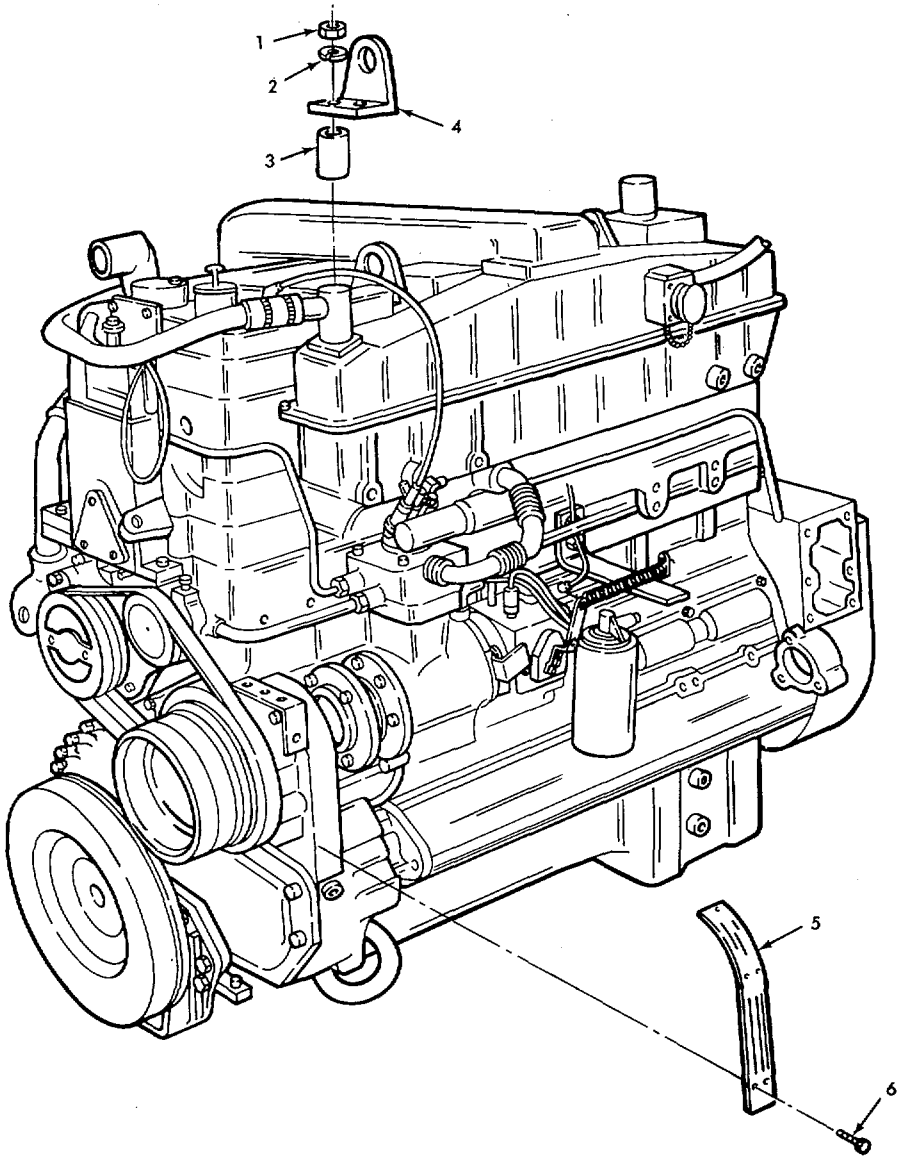
**Complete Repair.* Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.



TA 238616

FIGURE 1. ENGINE MOUNTS.

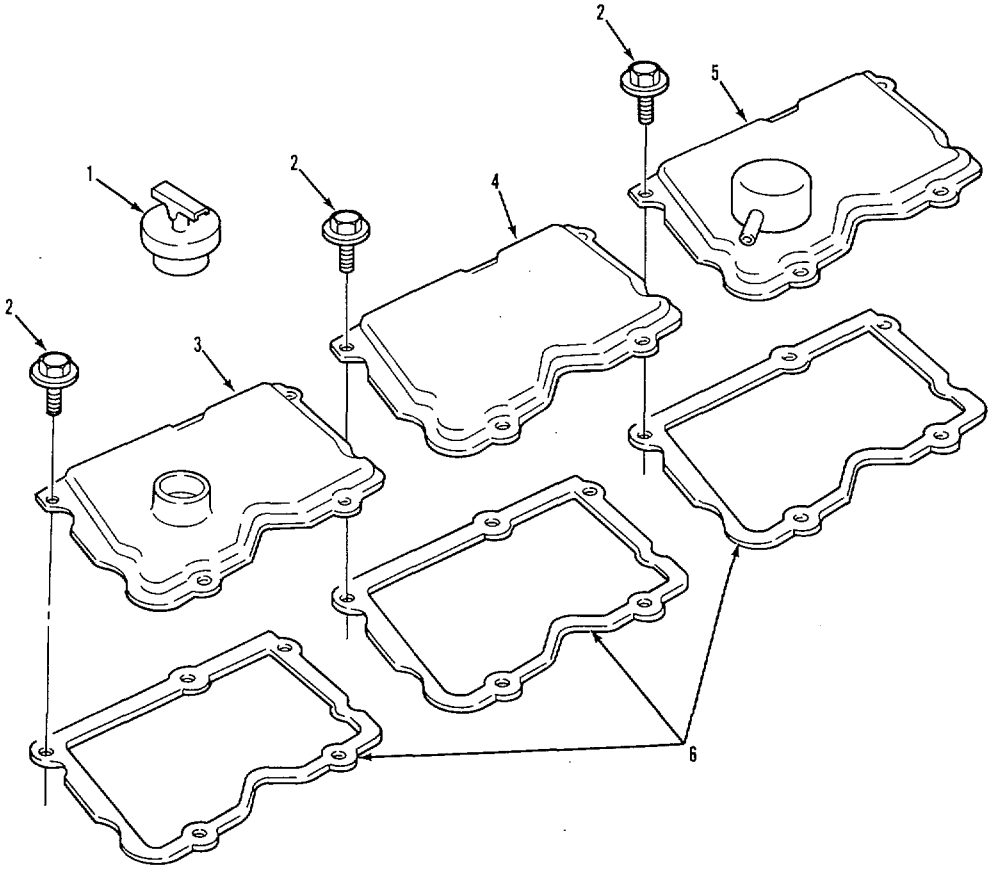
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 01 ENGINE GROUP: 0100 ENGINE ASSEMBLY	
				FIGURE 1. ENGINE MOUNTS.	
1	PAFZZ	96906	MS90728-195	SCREW,CAP,HEXAGON	4
2	PFFZZ	34623	MD32K-20002	BRACKET,EYE. NONROTA REAR MOUNT	2
3	PAFZZ	34623	M/10-20105	BRACKET,ANGLE	1
4	PAFZZ	23862	2436168	WASHER,FLAT	8
5	PAFZZ	96906	MS90725-187	SCREW,CAP,HEXAGON	8
6	PAFZZ	34623	M/362-20017	WASHER,FLAT	2
7	POFZZ	76005	OB-1125-12	GROMMET REAR	2
8	PAFZZ	34623	M/362-20013	WASHER,FLAT	2
9	PAFZZ	24617	9422307	NUT,SELF-LOCKING,CO	4
10	PAFZZ	34623	M/362-20015	WASHER,FLAT. *	4
11	POFZZ	34623	M/163-20002	BUSHING,RUBBER FRONT	2
				END OF FIGURE	



TA 237885

FIGURE 2. ENGINE ASSEMBLY RELATED PARTS.

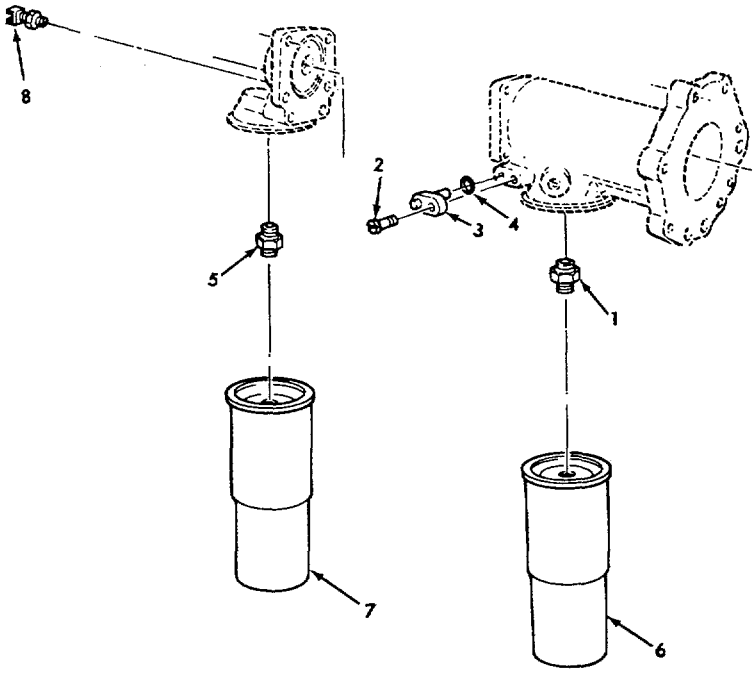
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 01OD ENGINE ASSEMBLY	
				FIGURE 2. ENGINE ASSEMELY RELATED PARTS.	
1	PAODZZ	75078	001094	NUTIPLAIN,CONE SEAT.....	V
2	PAOZZ	96906	MS35338-48	WASHE4RLOCK.....	4
3	PAOZZ	75078	001234	SPACER,SLEEVE.....	V
4	PAOZZ	15434	170226	BRACKET, ENGINE LIFT	2
5	PAOZZ	15434	3027282	PLATE,IDENTIFICATIO.....	5
6	PAOZZ	14534	S-2286	SCREW.....	5
				END OF FIGURE	



TA 237886

FIGURE 3. ROCKER COVERS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP:0105 VALVEST CAMSHAFTS AND TIMING SYSTEM	
				FIGURE 3. ROCKER COVERS.	
1	PAOZZ	15434	11322	CAR,FILLER OPENING	1
2	PAOZZ	15434	3006182	SCREW,CAP,HEXAGON	15
3	PAOZZ	15434	3136187	COVER,ROCKER FRONT	1
4	PAOZZ	15434	3006183	COVER,ENGINE POPPET CENTER	1
5	PAOZZ	15434	3006358	COVER,ENGINE POPPET	1
6	P0OZZ	15434	3044514	GASKET	3
				END OF FIGURE	



TA 237887

FIGURE 4. OIL FILTER AND RELATED PARTS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP: 0106 ENGINE LUBRICATION SYSTEM	
				FIGURE 4. OIL FILTER AND RELATED PARTS.	
1	PAOZZ	15434	3034578	ADAPTER,FILTER HEAD	1
2	PAOZZ	15434	3031005	SCREW,CAP,HEXAGONE	1
3	PAOZZ	15434	3035028	SWITCH,PRESSURE	1
4	PAOZZ	15434	3131808	PACKING,PREFORMED	1
5	PAOZZ	15434	3021656	ADAPTER,FILTER HEAD	1
6	PAOZZ	15434	299670	FILTER ELEMENT,FLUI	1
7	PAOZZ	15434	3304232	FILTER ELEMENT,FLUI	1
8	PAOZZ	15434	107947	COCK,DRAIN	1
				END OF FIGURE	