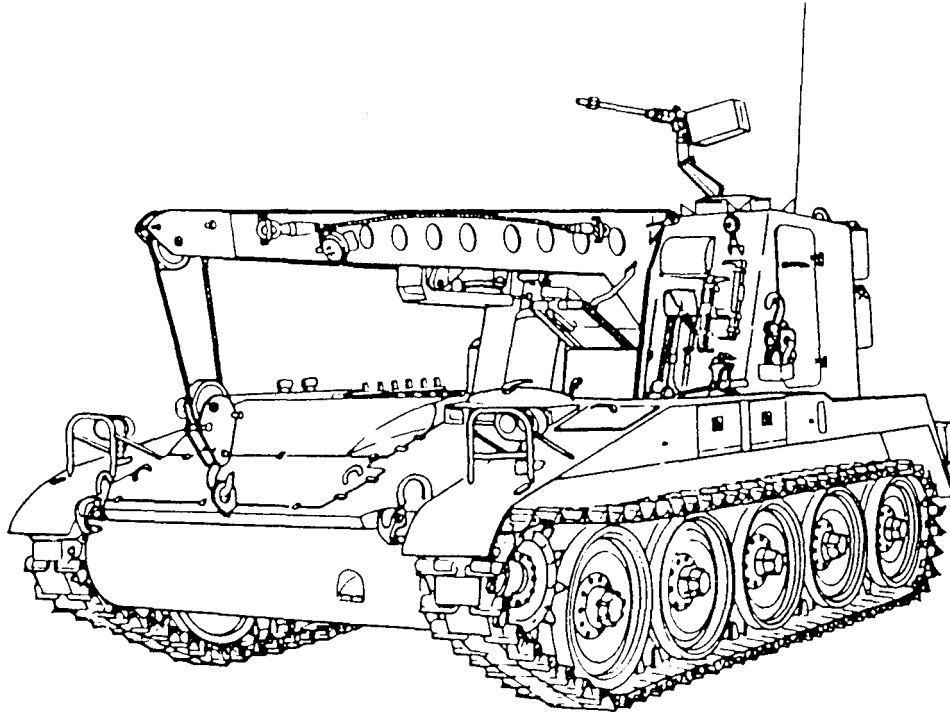


TECHNICAL MANUAL

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



**RECOVERY VEHICLE,
FULL TRACKED:
LIGHT ARMORED, M578
(2350-00-439-6242)
(HULL COMPONENTS)
(EIC: 3LA)**

Distribution: Statement A: Approved for public release; distribution is unlimited

**This Manual supersedes hull and related components portions of
TM 9-2350-238-20P, dated 18 April 1982, and
TM 9-2350-238-34P-1, dated 21 June 1982,**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
31 MAY 1994**

Technical Manual

No. 9-2350-238-24P-1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 31 May 1994

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

**HULL COMPONENTS
USED ON
RECOVERY VEHICLE, FULL TRACKED:
LIGHT ARMORED, M578
(2350-00-439-6242)
(EIC: 3LA)**

Current as of November 1992

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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 or DA Form 2028 (Recommending Changes to Publications and Blank Forms) located in the back of this manual direct to: Commander, US Army Tank Automotive Command, ATTN: AMSTA-MCC, Warren, MI 48397-5000. A reply will be furnished to you.

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UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT 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, direct support, and general support maintenance of the M578 Recovery Vehicle. 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 parts kits are listed separately in their own functional group within Section II. 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. 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 listing. 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, CAGEC, 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 level authorization criteria, and disposition instruction, as shown in the following breakout:

SECTION II		TM9-2350-238-24P-1			
(1)	(2)	(3)	(4)	(5)	(6)
ITEM NO	SMR CODE	CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 0100					
FIG.1 ENGINE AND RELATED PARTS					
1	PAFZZ	96906	MS35764-1291	BOLT,SELF-LOCKING HEX HD,3/8-16 X .875	12
2	PAFZZ	0AT62	8603811-235	PACKING,PREFORMED .135 DIA,3.0 ID	1
3	PAFZZ	19207	11662761	COUPLING,SHAFT,FLEX ENGINE TO POWER TRAIN	1
4	PAFHD	19207	5705715	ENGINE,W CONTAINER FOR REPAIR PARTS SEE TM 9-2815-202-24P	1
5	PAFZZ	19207	10904375	SUPPORT,TRANSMISSIO ENGINE TO TRANSMISSION	1
6	PAFZZ	96906	MS35338-48	WASHER,LOCK 1/2 NOM SIZE	4
7	PAFZZ	96906	MS90725-123	SCREW,CAP,HEXAGON H	4
8	PAFZZ	80204	B1821BH038C113N	SCREW,CAP,HEXAGON H 3/8-16UNC X 1.125	2
9	PAFZZ	96906	MS35338-46	WASHER,LOCK 3/8 NOM SIZE	2
10	PAFZZ	80204	B1821BH063C200N	SCREW,CAP,HEXAGON H 5/8-11UNC X 2.000	6
11	PAFZZ	80045	23MS35338-50	WASHER,LOCK 5/8 NOM SIZE	6
12	PAFZZ	96906	MS35338-47	WASHER,LOCK 7/16 NOM SIZE	14
13	PAFZZ	96906	MS90725-96	SCREW,CAP,HEXAGON H 7/16-14UNC X 3.250	2
14	PAFZZ	80204	B1821BH044C150N	SCREW,CAP,HEXAGON H 7/16-14UNC X 1.500	9
15	PAFZZ	80204	B1821BH044C225N	SCREW,CAP,HEXAGON H 7/16-14UNC X 2.250	3
16	PAFZZ	19207	12289974	GASKET FLYWHEEL HOUSING	1
END OF FIGURE					

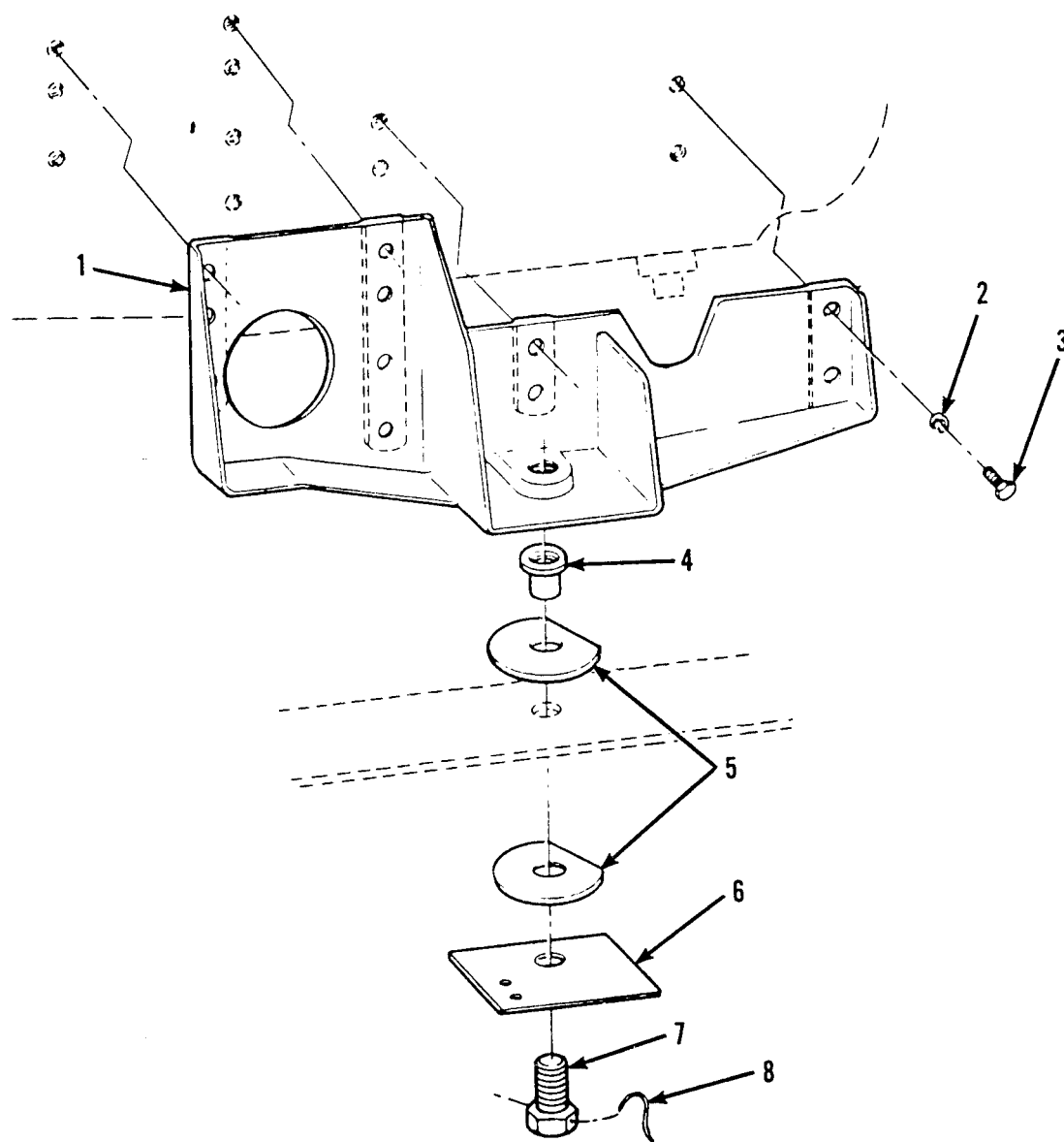


Figure 2. Engine Mount.

SECTION II			TM9-2350-238-24P-1		
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 0100					
FIG.2 ENGINE MOUNT					
1	PA0ZZ	19207	11631501	BRACKET,MOUNTING	1
2	PA0ZZ	96906	MS35338-46	WASHER,LOCK 3/8 NOM SIZE	12
3	PA0ZZ	80204	B1821BH038C125N	SCREW,CAP,HEXAGON H 3/8-16UNC X 1.250	12
4	PA0ZZ	19207	10898445	TUBE,SPACER,MOUNT,P	1
5	PA0ZZ	19207	10882021	PAD,CUSHIONING SHOCK,ENGINE MOUNT	2
6	PA0ZZ	19207	10882022	WASHER,ENGINE MOUNT LOCK WIRE PLATE	1
7	PA0ZZ	96906	MS51096-513	SCREW,CAP,HEXAGON H 1.0-12UNF X 3.00	1
8	M00ZZ	96906	MS20995C91AR	WIRE,NONELECTRICAL. MFD FROM NSN90505-00-221-2650	V
END OF FIGURE					

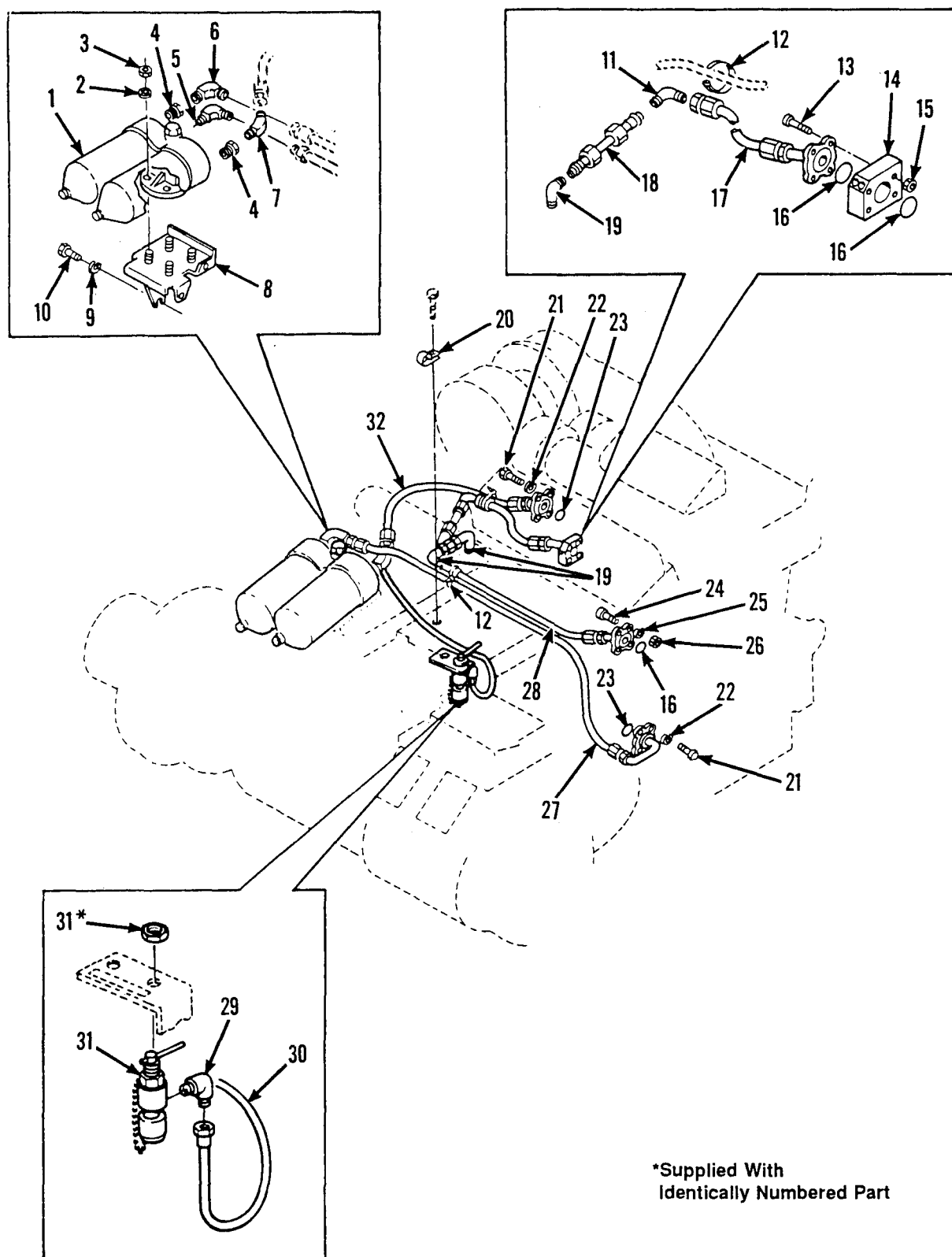


Figure 3. External Oil Lines and Fittings (Upper Engine).

SECTION II			TM9-2350-238-24P-1		
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 0106					
FIG.3 EXTERNAL OIL LINES AND					
FITTINGS (UPPER ENGINE)					
1	PA0ZZ	72582	5126546	FILTER,FLUID PRESSURE	1
2	PA0ZZ	96906	MS35333-42	WASHER, LOCK 3/8 NOM SIZE	4
3	PA0ZZ	96906	MS51968-8	NUT,PLAIN,HEXAGON 3/8-24UNF	4
4	PA0ZZ	24617	144059	BUSHING,PIPE 1-1/4 X 3/4 NPT	2
5	PA0ZZ	96906	MS51504A4-4	ELBOW,PIPE TO TUBE	1
6	PA0ZZ	96906	MS51815-14	ELBOW,PIPE TO TUBE 3/4NPTF PIPE TO	1
				3/4 TUBE	
7	PA0ZZ	19207	10917222-6	ELBOW,PIPE TO TUBE OIL FILTER	1
				COOLER HOSE	
8	PA0ZZ	19207	11642652	BRACKET,OIL FILTER OIL FILTER	1
9	PA0ZZ	96906	MS35338-46	WASHER, LOCK 3/8 NOM SIZE	1
10	PA0ZZ	80204	B1821BH038C075N	SCREW,CAP,HEXAGON H 3/8-16UNC X	1
				1.00	
11	PA0ZZ	96906	MS21904-16	ELBOW,TUBE FLARELESS,1.0 TUBE OD	1
12	PA0ZZ	19207	10921769	BAND,MARKER OIL HOSES	2
13	PA0ZZ	96906	MS90727-129	SCREW,CAP,HEXAGON H 1/2-20UNF X	4
				6.00	
14	PA0ZZ	19207	10914794	MANIFOLD,OIL RESERV OIL RESERVOIR	1
15	PA0ZZ	96906	MS21044-N8	NUT,SELF-LOCKING,HE	4
16	PA0ZZ	96906	MS28775-228	PACKING,PREFORMED 2.234 ID,2.512 OD	3
17	PA0ZZ	19207	8712200	HOSE ASSEMBLY,NONME RUBBER,	1
				TRANSMISSION TO OIL COOLER	
18	PA0ZZ	19207	10881937	TUBE ASSEMBLY,METAL TRANSMISSION	1
				OIL TO OIL COOLER	
19	PA0ZZ	96906	MS51815-48	ELBOW,PIPE TO TUBE 1.0NPTF PIPE TO	2
				1.0 TUBE	
20	PA0ZZ	96906	MS21333-120	CLAMP,LOOP	1
21	PA0ZZ	80204	B1821BH044C125N	SCREW,CAP,HEXAGON H 7/16-14UNC X	8
				1.250	
22	PA0ZZ	96906	MS35338-47	WASHER, LOCK 7/16 NOM SIZE	8
23	PA0ZZ	96906	MS28775-222	PACKING,PREFORMED 1.484 ID,1.762 OD	2
24	PA0ZZ	96906	MS90727-122	SCREW,CAP,HEXAGON H 1/2-20UNF X	4
				3.750	
25	PA0ZZ	96906	MS35338-48	WASHER, LOCK 1/2 NOM SIZE	4
26	PA0ZZ	96906	MS51968-14	NUT,PLAIN,HEXAGON 1/2-20UNF	4
27	PA0ZZ	98441	213038-12-0444	HOSE ASSEMBLY,NONME RUBBER,ENGINE	1
				OIL FILTER	
28	PA0ZZ	19207	10914574	HOSE ASSEMBLY,NONME TRANSMISSION	1
				TO OIL COOLER	
29	PA0ZZ	96906	MS51506A4	ELBOW,PIPE TO TUBE	1
30	PA0ZZ	96906	MS8000E320A	HOSE ASSEMBLY,NONME	1
31	PA0ZZ	19207	11669424	COCK,DRAIN	1
32	PA0ZZ	19207	10906363	HOSE ASSEMBLY,NONME RUBBER,OIL	1
				FILTER COOLER	
END OF FIGURE					

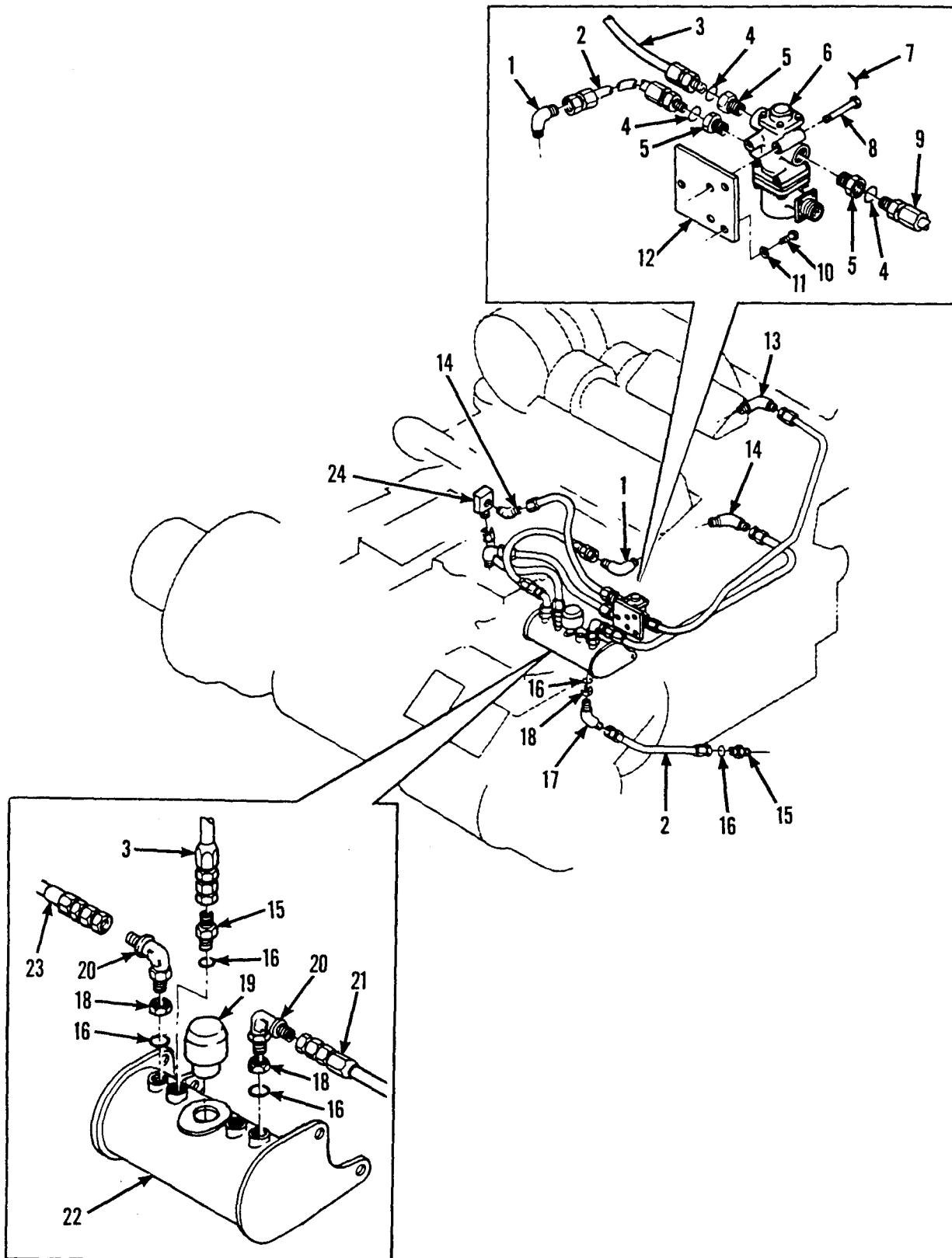


Figure 4. External Oil Lines and Fittings (Lower Engine) and Scavenger Reservoir.

SECTION II			TM9-2350-238-24P-1		
(1)	(2)	(3)	(4)	(5)	(6)
ITEM NO	SMR CODE	CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 0106 FIG.4 EXTERNAL OIL LINES AND FITTINGS (LOWER ENGINE) AND SCAVENGER RESERVOIR					
1	PA0ZZ	96906	MS51815-3	ELBOW,PIPE TO TUBE 1/8NPTF PIPE TO 1/4 TUBE	2
2	PA0ZZ	19207	10911012	HOSE ASSEMBLY,NONME RUBBER, RESERVOIR DRAIN (1) TRANSMISSION TO SOLENOID (1)	2
3	PA0ZZ	19207	10913170	HOSE ASSEMBLY,NONME RUBBER, TRANSMISSION DRAIN (1) TRANSMISSION TO SOLENOID (1)	2
4	PA0ZZ	96906	MS28778-8	PACKING,PREFORMED .644 ID, .818 OD	3
5	PAFZZ	96906	MS21916-8-4	REDUCER,BOSS 1/4 TO 1/2	3
6	PAFZZ	19200	10900446	VALVE,SOLENOID BYPASS RETURN SOLENOID	1
7	MFFZZ	96906	MS20995F41	WIRE,NONELECTRICAL MFD FROM 9505-00-684-4843	V
8	PAFZZ	96906	MS18153-12	SCREW,CAP,HEXAGON H 1/4-28UNF X 2.00	3
9	PA0ZZ	19207	10917137-4	HOSE ASSEMBLY,NONME RUBBER, GOVERNOR TO BYPASS SOLENOID	1
10	PAFZZ	80204	B1821BH044C100N	SCREW,CAP,HEXAGON H 7/16-14UNC X 1.000	2
11	PAFZZ	96906	MS35338-47	WASHER, LOCK 7/16 NOM SIZE	2
12	PAFZZ	19207	10881940	PLATE,MOUNTING,SOLE BYPASS SOLENOID VALVE MOUNTING	1
13	PA0ZZ	96906	MS51815-5	ELBOW,PIPE TO TUBE 1/4NPTF PIPE TO 1/4 TUBE,GOVERNOR TO BYPASS SOLENOID	1
14	PA0ZZ	19207	10917222-1	ELBOW,PIPE TO TUBE 1/8NPTF PIPE TO 1/4 TUBE	2
15	PA0ZZ	96906	MS21902-4	NIPPLE,BOSSW	2
16	PA0ZZ	96906	MS28778-4	PACKING,PREFORMED .351 ID, .495 OD	5
17	PA0ZZ	96906	MS21907-4	ELBOW,TUBE 1/4 TUBE OD	1
18	XDOZZ	88044	AN6289-2	LOCKNUT,TUBE FITTIN 7/16-20UNF	3
19	PA0ZZ	19207	10915154	BREATHER POWER PLANT RESERVOIR	1
20	PA0ZZ	96906	MS21908-4	ELBOW,TUBE 1/4 TUBE OD	2
21	PA0ZZ	19207	10906356	HOSE ASSEMBLY,NONME RUBBER,ENGINE BLOCK DRAIN	1
22	PB0ZZ	19207	10904381	RESERVOIR, ENGINE O POWER PLANT	1
23	PA0ZZ	19207	10913169	HOSE ASSEMBLY,NONME RUBBER,ENGINE CONDENSATION	1
24	PA0ZZ	19207	10881942	ELBOW,PIPE TO HOSE TRANSMISSION TO SOLENOID HOSE	1

END OF FIGURE

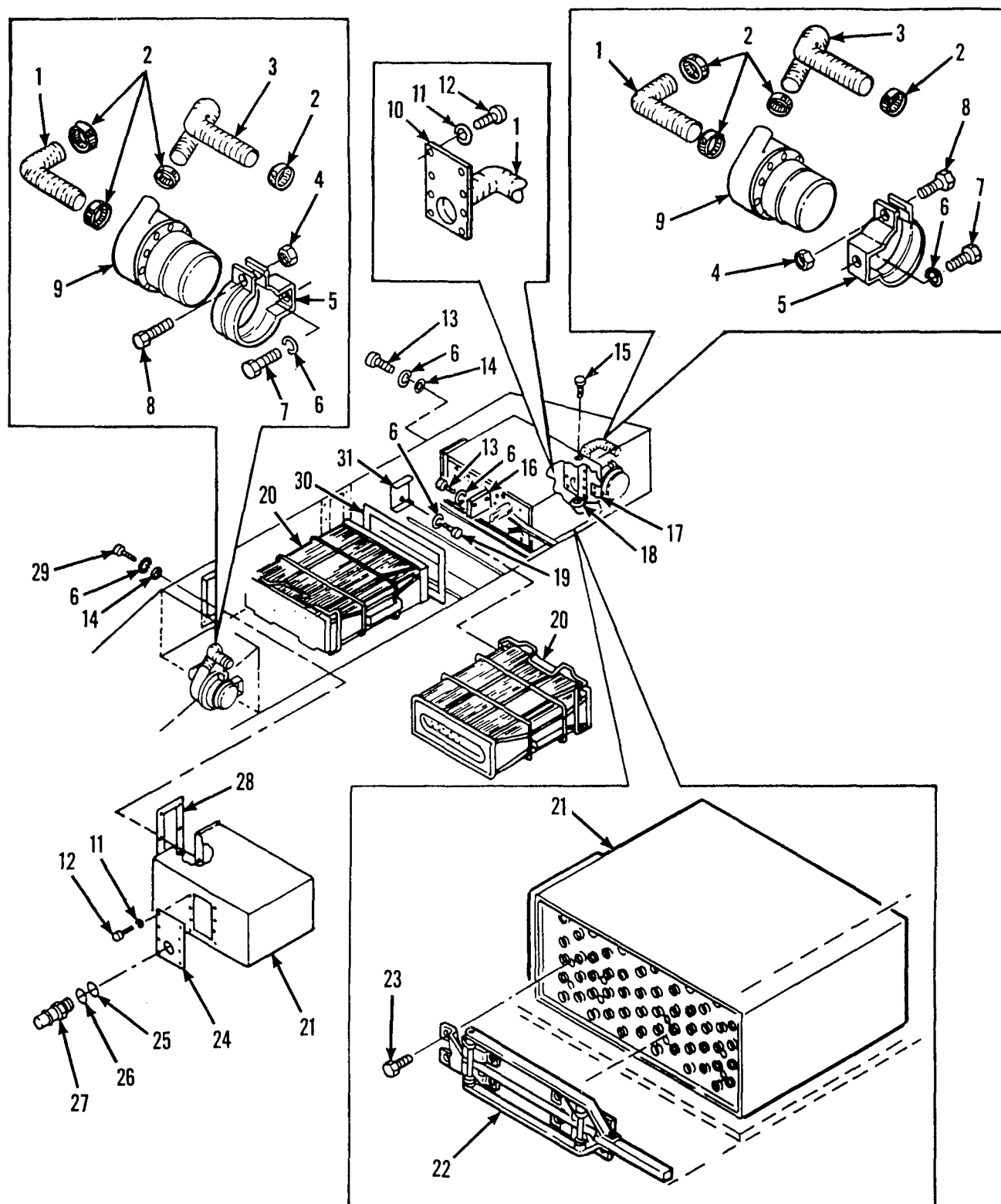


Figure 5. Engine Air Cleaner System.

SECTION II (1) ITEM NO	(2) SMR CODE	(3) CAGEC	TM9-2350-238-24P-1 (4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 0304 FIG.5 ENGINE AIR CLEANER SYSTEM					
1	M00ZZ	19207	8724783-6	HOSE,AIR DUCT BLOWER INLET,MFD FROM 4720-00-882-1669	V
2	PA0ZZ	96906	MS35842-12	CLAMP,HOSE 1.063 TO 2.00 ID	8
3	M00ZZ	19207	8724783-10	HOSE,AIR DUCT BLOWER OUTLET,MFD FROM 4720-00-882-1669	V
4	PA0ZZ	96906	MS21044N5	NUT,SELF-LOCKING,HE 5/16-24UNJF	2
5	PA0ZZ	19207	10934628	BRACKET CLAMP AIR C AIR CLEANER	2
6	PA0ZZ	96906	MS35338-46	WASHER,LOCK 3/8 NOM SIZE	24
7	PA0ZZ	80204	B1821BH038C075N	SCREW,CAP,HEXAGON H 3/8-24UNF X .625	4
8	PA0ZZ	96906	MS90726-36	SCREW,CAP,HEXAGON H 5/16-24UNF X 1.250	2
9	PA0FF	19207	10905010	FAN,CENTRIFUGAL AIR SEPARATOR,SEE FIG. 6 FOR ASSY BKDN	2
10	PA0ZZ	19207	10919794	DOOR,AIR CLEANER,EX AFT AIR SEPARATOR BLOWER ADAPTER	1
11	PA0ZZ	96906	MS35338-44	WASHER,LOCK 1/4 NOM SIZE	16
12	PA0ZZ	96906	MS90725-5	SCREW,CAP,HEXAGON H 1/4-20UNC X .625	16
13	PA0ZZ	96906	MS90727-58	SCREW,CAP,HEXAGON H 3/8-24UNF X .750	10
14	PA0ZZ	96906	MS27183-14	WASHER,FLAT .406 ID, .812 OD, .065 THK	12
15	PA0ZZ	96906	MS90727-63	SCREW,CAP,HEXAGON H 3/8-24UNF X 1.375	1
16	PA0ZZ	19207	12355148	SPACER,PLATE PLACEMENT GUIDE	2
17	PA0ZZ	19207	8762879	GASKET	1
18	PA0ZZ	96906	MS35692-21	NUT,PLAIN,SLOTTED,H 3/8-24UNF	1
19	PA0ZZ	96906	MS90727-55	SCREW,CAP,HEXAGON H 3/8-24UNF X .500	4
20	PA0BZ	78940	W260DX-3	FILTER ELEMENT,INTA	2
21	PA0ZZ	19207	10934626	AIR CLEANER,INTAKE AIR CLEANER SEPARATOR	2
22	PA0ZZ	19207	12355157	REATAINER ASSEMBLY, A AIR FILTER	2
23	PA0ZZ	21450	186491	BOLT,ASSEMBLED WASH 1/4-20UNC X 1/2	16
24	PA0ZZ	19207	10919793	COVER,ACCESS FWD AIR SEPARATOR BLOWER ADAPTER	1
25	PA0ZZ	88044	AN960-2616	WASHER,FLAT 1.640 ID,2.375 OD 090 THK	1
26	PA0ZZ	19207	10956619	GASKET FWD AIR SEPARATOR OUTLET ADAPTER	1
27	PA0ZZ	19207	10919791	ADAPTER,STRAIGHT,H0 STRAIGHT,HOSE TO BOSS,FWD AIR SEPARATOR END PLATE DOOR	1
28	PA0ZZ	19207	10934570	GASKET AIR SEPARATOR INLET	2
29	PA0ZZ	96906	MS90727-60	SCREW,CAP,HEXAGON H 3/8-24UNF X 1.000	6
30	PA0ZZ	19207	12355122	SEAL ASSEMBLY,AIR F FILTER BASKET AIR OUTLET	2