



MARINE

ILLUSTRATED

PARTS MANUAL

MODEL MP8.1L

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"TYPICAL VIEWS ARE SHOWN"

ENGINE ROTATION

Engine Rotation is identified as "RH" or "LH" with the engine model number. Rotation always is determined from the flywheel end looking toward the front of the engine. In some instances, propeller shaft rotation may be opposite to that of the engine.

When ordering a replacement engine, production block or parts for the engine, be certain to check engine rotation. **DO NOT rely on propeller rotation in order to determine engine rotation.**

LEFT-HAND ROTATION is STANDARD ROTATION.

(Flywheel turns counterclockwise when viewed from flywheel end of the engine.)

RIGHT-HAND ROTATION is OPPOSITE ROTATION.

(Flywheel turns clockwise when viewed from flywheel end of the engine.)

HOW TO READ THIS PARTS BOOK:

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	RB001018	Base Engine Assembly, 8.1L	1

①

②

③

④

- ① ITEM NUMBER - This number corresponds with the number in the exploded view on the facing page.
- ② PART NUMBER - This is the designated part number for the particular component or assembly.
- ③ DESCRIPTION - This identifies what the component or assembly is.
- ④ QUANTITY - This refers to the number of pieces used.

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Symbols shown throughout parts list are defined here or on the bottom of the individual parts list page.

- AR = As Required
- OPT = Optional
- NSS = Not Serviced Separately
- NA = Not Available
- OS = Oversize
- US = Undersize
- NS = Not Shown
- TBD = To Be Determined
- NI = Not Illustrated

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REPLACEMENT PARTS:**WARNING:**

Electrical, ignition and fuel system components on PCM Engines are designed and manufactured to comply with U.S. Coast Guard rules and regulations to minimize risks of fire or explosion.

Use of replacement electrical, ignition and fuel system components which do not comply with these rules and regulations could result in a fire or explosion hazard and should be avoided.

GASKET AND DECAL KIT NUMBERS:

Description	Part Number
Complete Engine Overhaul Gasket Set	TBD
Valve Grind Gasket Set	TBD
Oil Pan Gasket Set	RM0263
Intake Manifold Gasket Set	RM0267
On Board Spare Parts Kit	RK173087

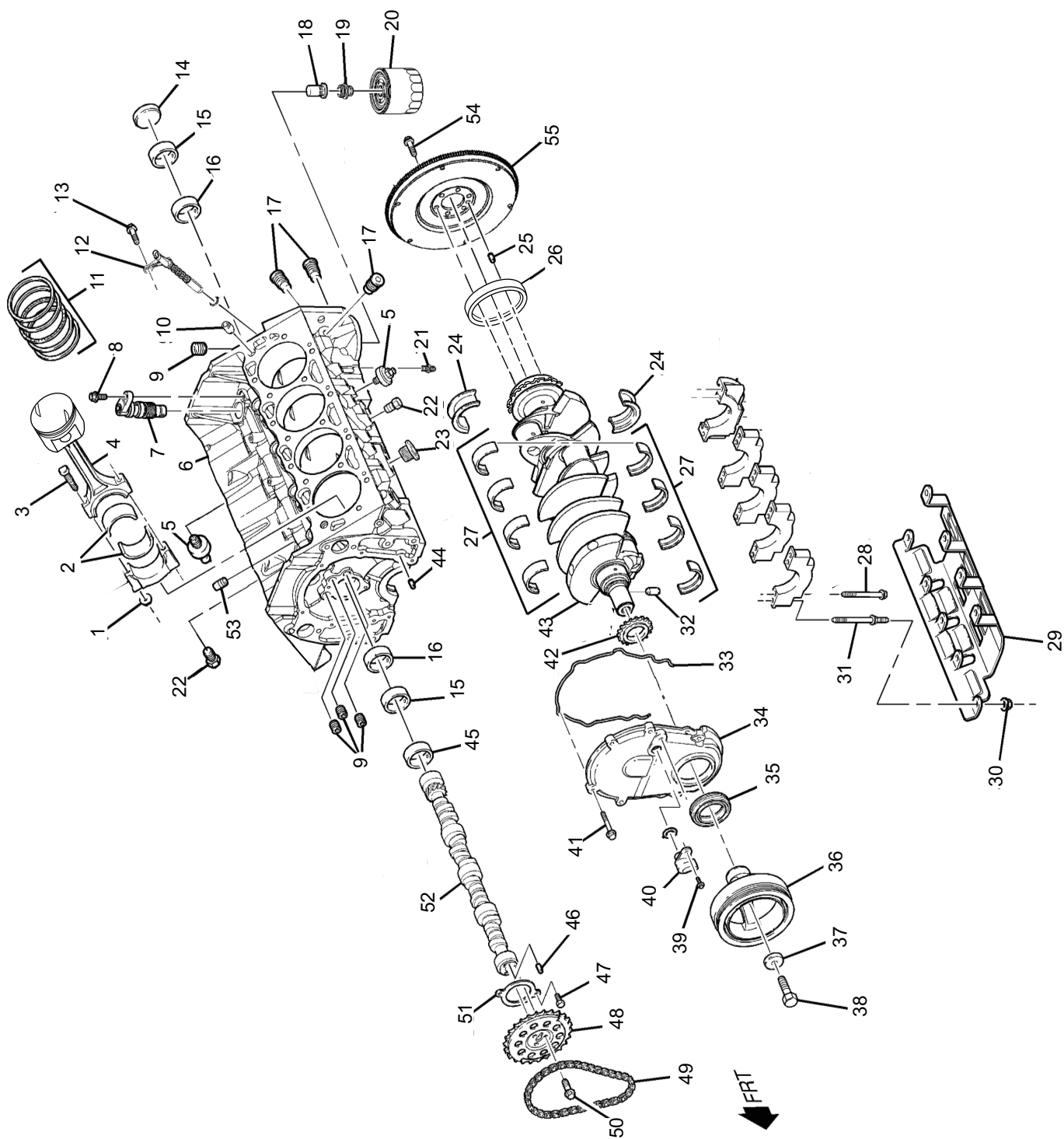
MAINTENANCE ITEM PART NUMBERS:

Description	Part Number
Oil Filter	R077001
Fuel Filter	RP080026
Spark Plugs	R030009
Spark Plug Wire Set	RK120019A
Accessory Drive Belt	R066024
Impeller Kit	RP061017
Thermostat	R026002

MARINE TRANSMISSIONS:

PCM Engines are equipped with PCM or Hurth Transmissions, standard or "V"-drives. If transmission parts are required, contact your dealer or closest PCM Parts Distributor for required parts.

CYLINDER BLOCK ASSEMBLY - FIGURE 1

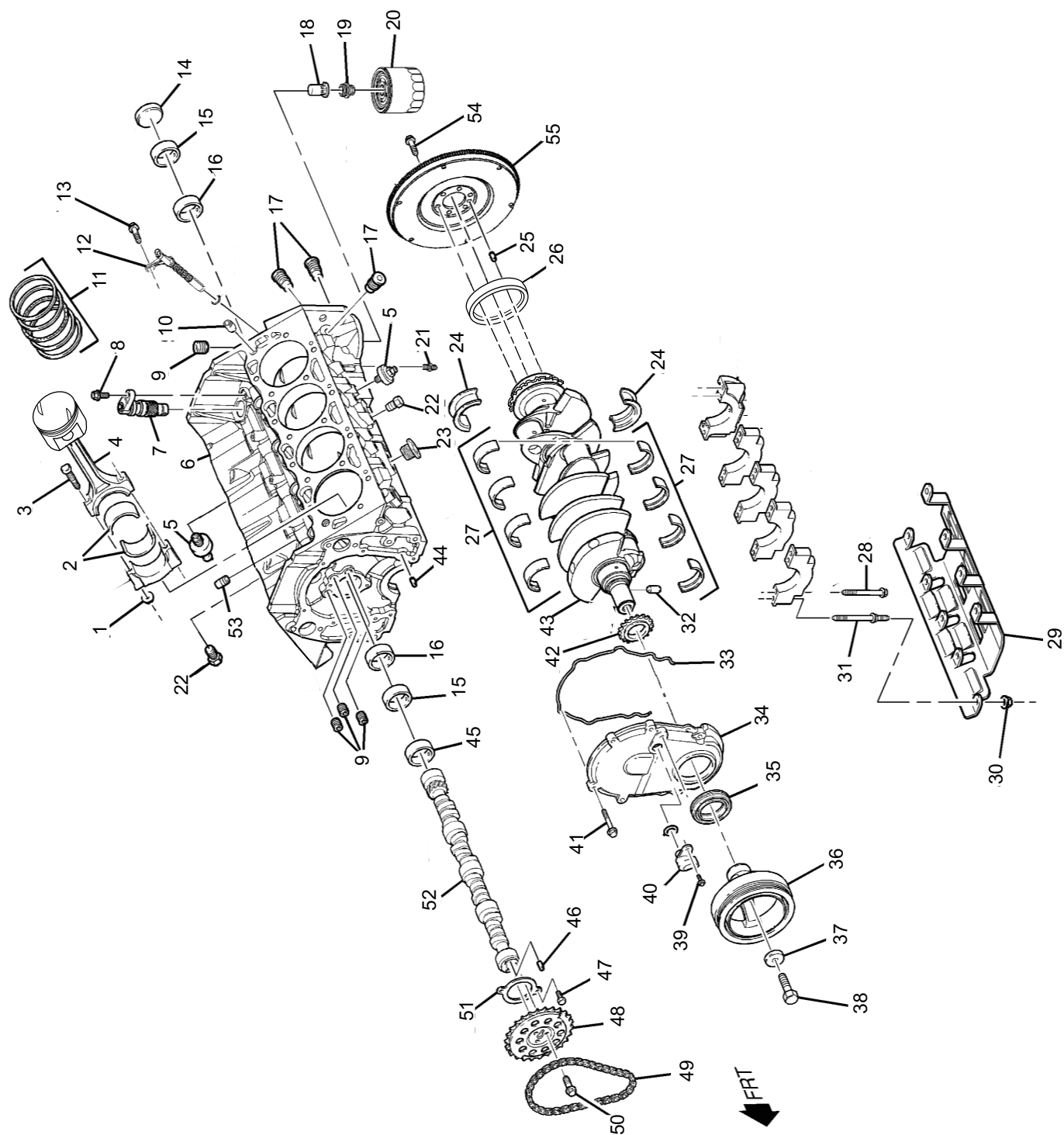


PC81001

CYLINDER BLOCK ASSEMBLY - FIGURE 1

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
*	RB001018	Base Engine Assembly	
1	R017080	Nut , connecting rod cap	16
2	R007026	Bearing Set , connecting rod (STD)	8
3	R009195	Bolt , connecting rod cap	16
4	RA013015A	Piston and Connecting Rod Assembly (LH/STD)	4
4	RA013015B	Piston and Connecting Rod Assembly (RH/STD)	4
5	R020033	Sensor , knock	2
6	NSS	Cylinder Block	
7	RA073001	Drive , oil pump	1
8	TBD	Bolt , oil pump drive	1
9	TBD	Plug , oil gallery	
10	R022021	Pin , cylinder head locating	4
11	R015012	Ring Set , piston (STD)	8
12	R020034	Sensor , crankshaft position	1
12	TBD	Sensor , crankshaft position (S/N 440000 and above)	1
13	TBD	Bolt , crankshaft position sensor	1
14	R069065	Plug , camshaft	1
15	R051039B	Bearing , camshaft #2 and #5	2
16	R051039A	Bearing , camshaft #3 and #4	2
17	TBD	Plug , engine block oil gallery	4
18	TBD	Valve , oil bypass	1
19	R079048	Fitting , oil bypass adapter	1
20	R079065	Adapter , oil bypass 8.1L	1
21	R024183	Connector , engine oil cooler hose	2
22	R069070	Plug , engine block coolant drain hole	2
23	TBD	Plug , engine block coolant drain hole	1
24	R007028	Bearing , crankshaft (thrust)	1
25	TBD	Pin , flywheel locating	2
26	R047224	Seal , crankshaft rear oil	1
27	R007027	Bearing , crankshaft (STD)	4
28	R009196	Bolt , crankshaft bearing cap	10
29	R012023	Deflector , crankshaft oil	1
30	TBD	Nut , crankshaft oil deflector	
31	R031032	Stud , crankshaft bearing cap	9
32	TBD	Pin , crankshaft balancer locating	1
33	RM0264	Gasket , engine front cover	1
34	R004011	Cover , engine front cover (includes gasket and seal)	1
34	TBD	Cover , engine front cover (includes gasket and seal, S/N 440000 and above)	1
35	R047225	Seal , crankshaft front oil	1

CYLINDER BLOCK ASSEMBLY - FIGURE 1

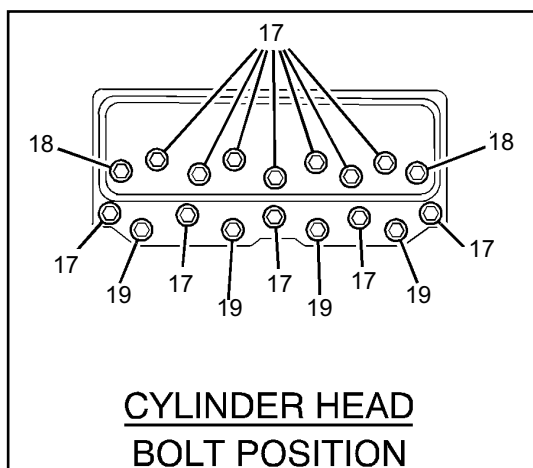
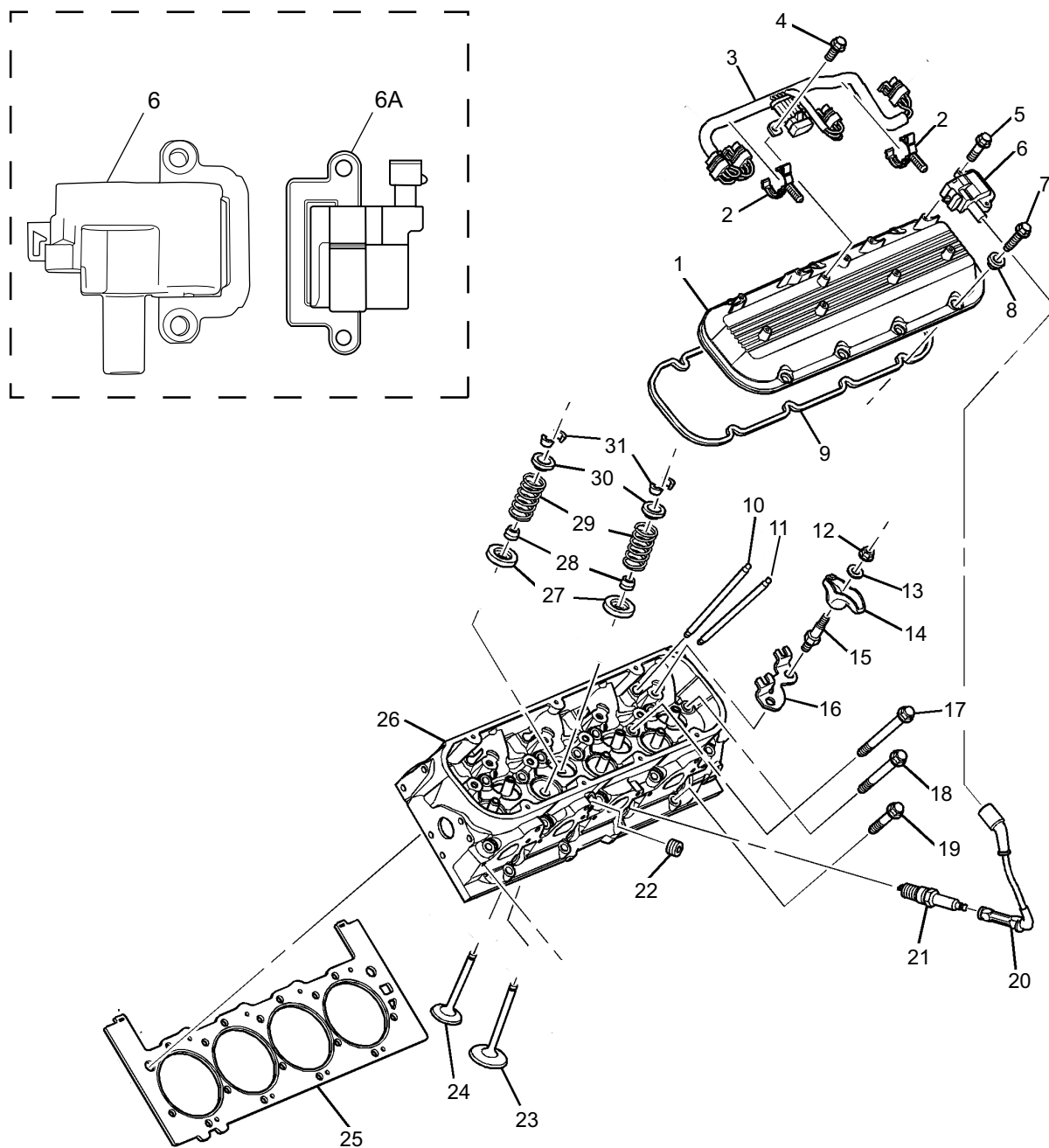


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CYLINDER BLOCK ASSEMBLY - FIGURE 1

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
36	R064015	Balancer , crankshaft (STD - '01-'04) (HO - '03-'04) (Use with crankshaft R006029)	1
36	R064015A	Balancer , crankshaft (HO - '01-'02) (Use with crankshaft R006030)	1
37	R096146	Washer , crankshaft balancer	1
38	TBD	Bolt , crankshaft balancer	1
39	TBD	Bolt , camshaft position sensor	1
40	R020035	Sensor , camshaft position sensor	1
40	TBD	Sensor , camshaft position sensor (S/N 440000 and above)	1
41	TBD	Bolt , engine front cover	6
42	R054039	Sprocket , crankshaft	1
42	TBD	Sprocket , crankshaft (S/N 440000 and above)	1
43	R006029	Crankshaft (STD - '01-'04) (HO - '03-'04) (Use with balancer R064015)	1
43	R006030	Crankshaft (HO - '01-'02) (Use with balancer R064015A)	1
44	R022022	Pin , engine front cover locating	1
45	R051039A	Bearing , camshaft #1	1
46	R022022	Pin , camshaft sprocket locating	1
47	TBD	Bolt , camshaft retaining	2
48	R054040	Sprocket , camshaft	1
49	R055016	Chain , camshaft timing	1
50	TBD	Bolt , camshaft sprocket	3
51	R109050	Retainer , camshaft	1
52	RA050024	Camshaft , engine (HO)	1
53	TBD	Plug , engine block oil gallery	3
54	TBD	Bolt , flywheel to crankshaft	6
55	RA138015	Flywheel Assembly , (Bottom Mount Starter)	1

CYLINDER HEAD ASSEMBLY - FIGURE 2

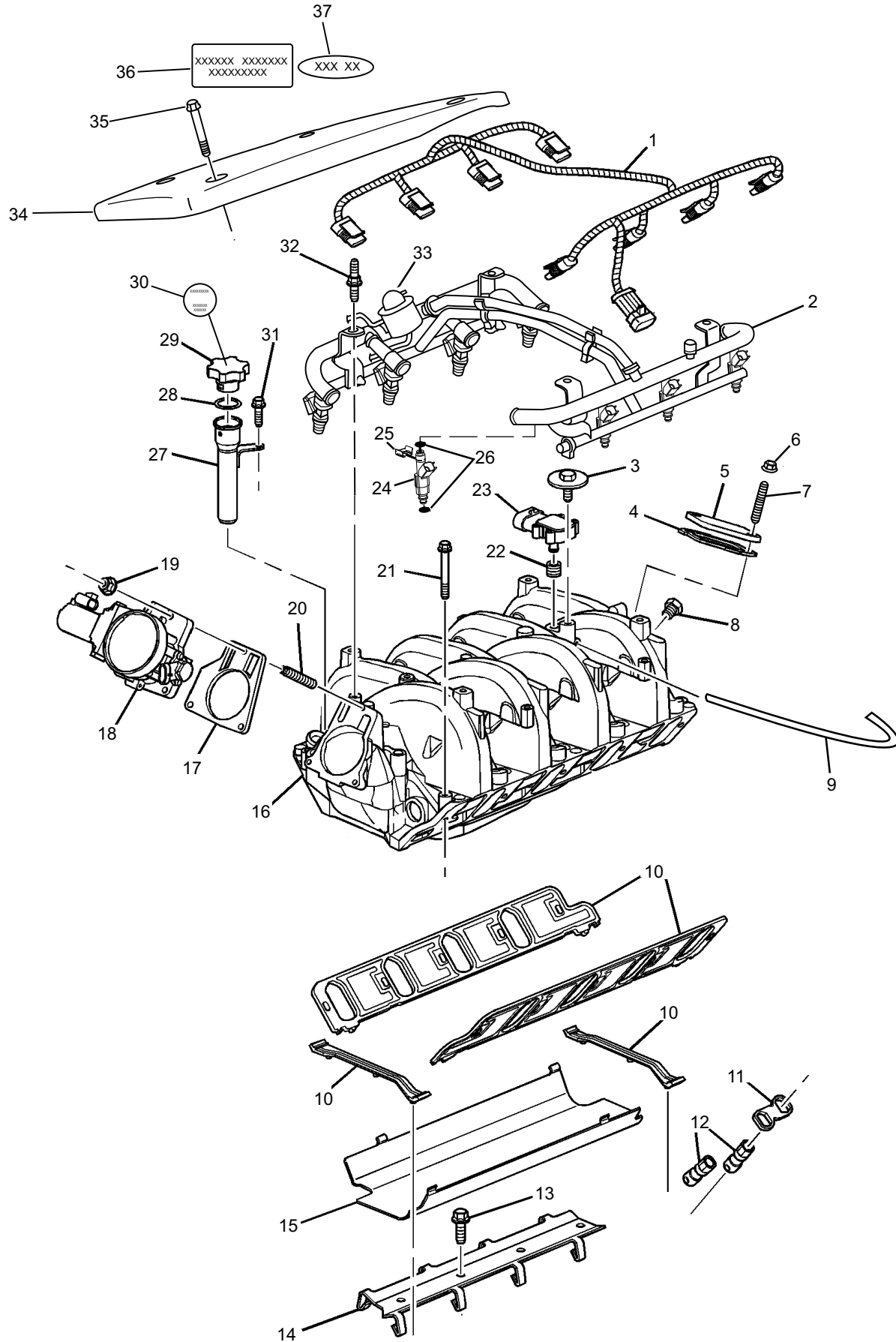


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CYLINDER HEAD ASSEMBLY - FIGURE 2

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R033013	Cover , rocker	2
2	R127096	Retainer , ignition coil wire harness	4
3	R121074	Wire Harness , ignition coils (OLD)	2
3	R121074A	Wire Harness , ignition coils (NEW)	2
4	TBD	Bolt , ignition coil wire harness retaining	2
5	TBD	Bolt , ignition coil retaining	16
6	R117012	Coil , ignition (OLD) (H.O. - prior to S/N 425408)	8
6A	R117013	Coil , ignition (NEW) (H.O. - S/N 425408 and above)	8
7	R009200	Bolt , rocker cover retaining	14
8	R094039	Grommet , rocker cover retaining	14
9	RM0261	Gasket , rocker cover	2
10	R039021	Push Rod , intake	8
11	R039022	Push Rod , exhaust	8
12	R017079	Nut , rocker arm attaching	16
13	TBD	Ball , rocker arm	16
14	R038018	Rocker Arm , valve	16
15	R095039	Stud , push rod guide attaching	16
16	R037003	Guide , pushrod	8
17	R009197	Bolt , cylinder head to block (long)	24
18	R009198	Bolt , cylinder head to block (medium)	4
19	R009199	Bolt , cylinder head to block (short)	8
20	RK120019	Spark Plug Wire Set	1
21	R030009	Spark Plug	8
22	TBD	Plug , pipe (1/2")	2
23	R043033	Valve , intake (STD)	8
24	R043034	Valve , exhaust (STD)	8
25	RM0262B	Gasket , cylinder head (RH)	1
25	RM0262A	Gasket , cylinder head (LH)	1
26	R003014	Cylinder Head Assembly (RH)	1
26	TBD	Cylinder Head Assembly (RH) (S/N 440000 and above)	1
26	R003015	Cylinder Head Assembly (LH)	1
26	TBD	Cylinder Head Assembly (LH) (S/N 440000 and above)	1
27	R049013	Rotator , valve	16
28	R047226	Seal , valve stem	16
29	R046049	Valve Spring Assembly	16
30	R049014	Cap , valve spring	16
31	R049010	Retainer , valve stem	32

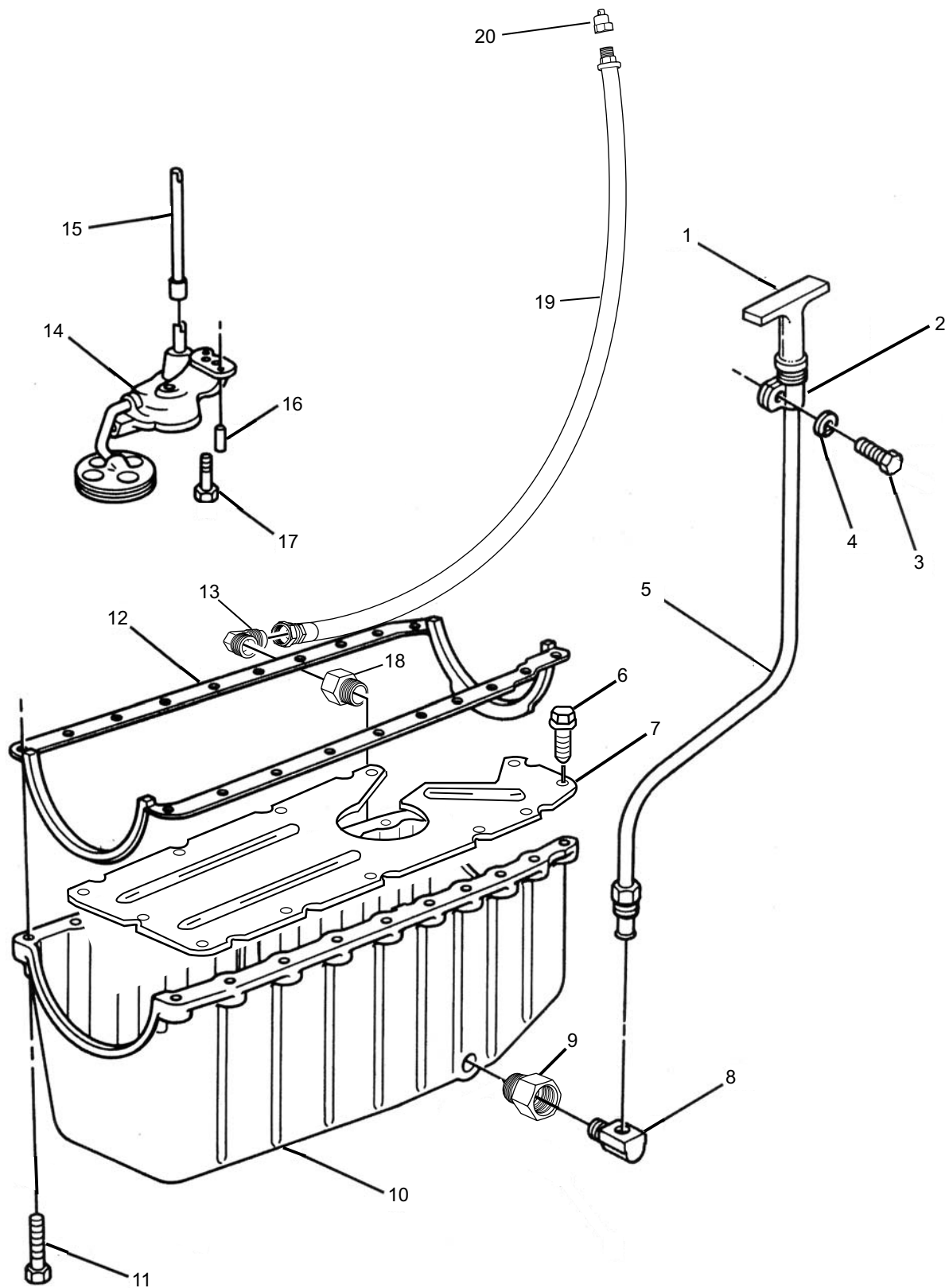
INTAKE MANIFOLD ASSEMBLY - FIGURE 3



INTAKE MANIFOLD ASSEMBLY - FIGURE 3

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R121075	Wire Harness , fuel injectors	1
2	RA086001	Fuel Rail Assembly	1
3	TBD	Bolt , MAP sensor retaining	1
4	RM0265	Gasket , EGR blockoff cover	1
5	TBD	Cover , EGR blockoff	1
6	TBD	Nut , EGR blockoff cover attaching	2
7	TBD	Stud , EGR blockoff cover attaching	2
8	TBD	Plug , intake manifold core hole	1
9	20237	Hose , fuel pressure regulator vacuum	1
10	RM0267	Gasket Set , intake manifold	1
10	TBD	Gasket Set , intake manifold (S/N 440000 and above)	1
11	R037004	Guide , valve lifter	8
12	R040004	Lifter , valve	16
13	TBD	Bolt , valve lifter retainer	4
14	R090253	Retainer , valve lifter	1
15	R012025	Guard , oil splash - lifter	1
16	R002022	Intake Manifold	1
16	TBD	Intake Manifold (S/N 440000 and above)	1
17	RM0251	Gasket , throttle body mounting	1
18	RA035036A	Throttle Body , mechanical throttle (HO)	1
19	L00918	Nut , throttle body attaching	3
20	TBD	Stud , throttle body mounting	3
21	R009201	Bolt , intake manifold to cylinder head	10
21	TBD	Bolt , intake manifold to cylinder head (S/N 440000 and above)	10
22	TBD	Seal , MAP sensor	1
23	R020036	MAP Sensor	1
24	RA087006	Fuel Injector Assembly	8
25	R127097	Retainer , fuel injector to fuel rail	8
26	RK047227	O-Ring , kit fuel injector	8
27	R034046	Riser , oil fill ('01-'02 MY)	1
27	R034046A	Riser , oil fill ('03 MY)	1
28	NSS	O-Ring , oil fill riser cap	1
29	R034038A	Cap , oil fill riser ('01-'02 MY)	1
29	R034038B	Cap , oil fill riser ('03 MY)	1
30	R143137	Decal , oil fill riser cap	1
31	TBD	Bolt , oil fill riser attaching	1
32	TBD	Stud , fuel rail assembly attaching	4
33	R088001	Regulator , fuel pressure	1
34	R060057	Cover , engine	1
35	99225030	Bolt , engine cover attaching	4
36	R143131	Decal , "Python"	1
37	R143133A	Decal , "8.1 MPI"	1

OIL PAN and OIL PUMP ASSEMBLY - FIGURE 4

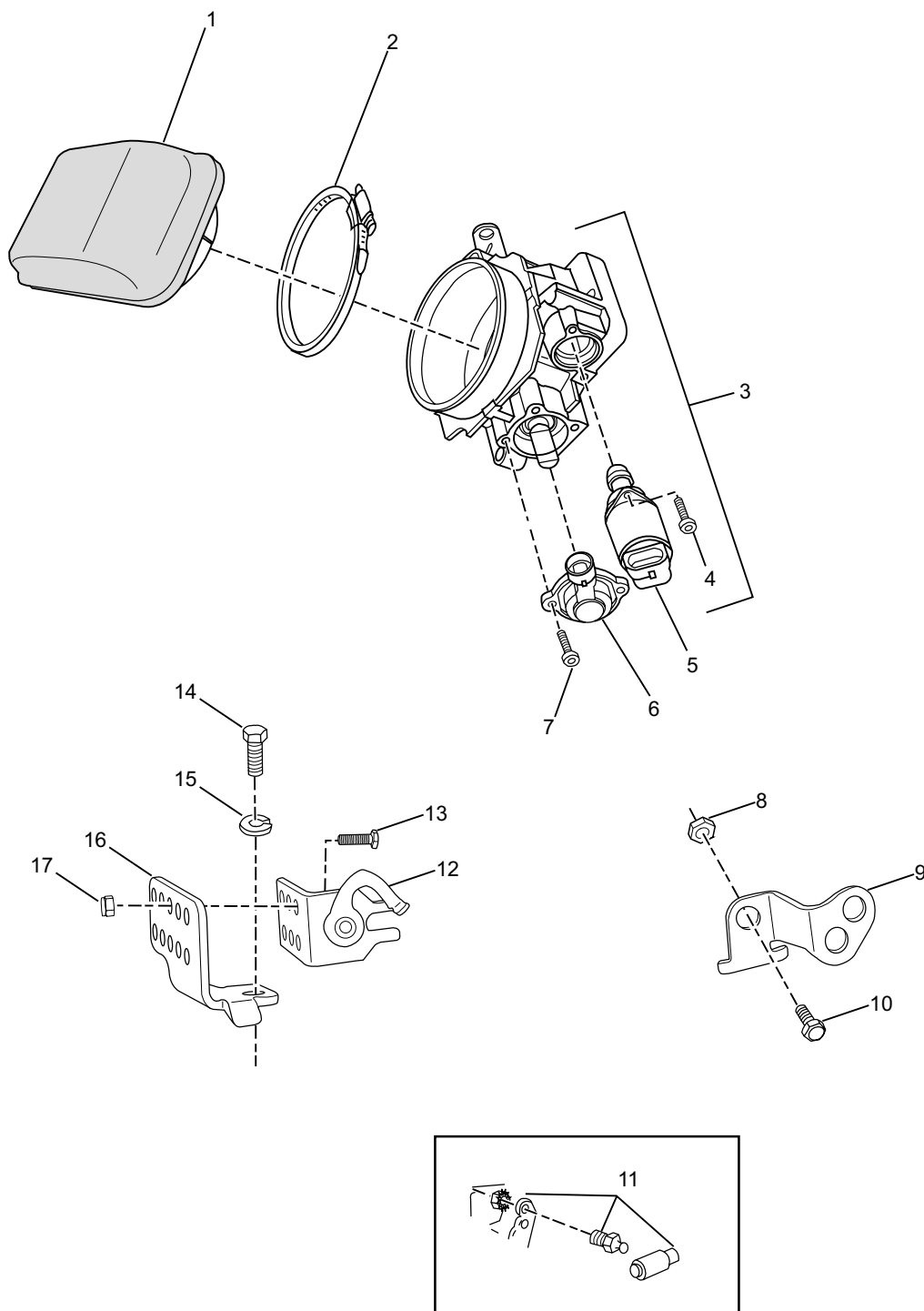


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OIL PAN and OIL PUMP ASSEMBLY - FIGURE 4

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R041068	Dipstick , oil level (Level)	1
1	R041069	Dipstick , oil level (Angled)	1
2	R127015	Clamp , dipstick tube attaching	2
3	98443025	Bolt , dipstick tube attaching	2
4	93940000	Lockwasher , dipstick tube attaching bolt	2
5	R041072	Dipstick Tube	2
6	TBD	Bolt , oil pan baffle	12
7	R012026	Baffle , oil pan	1
8	R024017	Elbow , dipstick tube to oil pan	2
9	R024200	Adapter , dipstick elbow to oil pan	2
10	R005023	Oil Pan	1
11	TBD	Bolt , oil pan mounting	20
12	RM0263	Gasket , oil pan	1
13	R024201	Fitting , 90 degree	1
14	RA070017	Oil Pump Assembly	1
15	R058055	Shaft , oil pump to oil drive	1
16	R022022	Pin , dowel - oil pump aligning	1
17	TBD	Bolt , oil pump mounting	2
18	R024200	Fitting , straight	1
19	RA121071	Hose , oil drain	1
20	R069068	Cap , oil drain hose	1
NI	TBD	Kit , oil drain	1

THROTTLE BODY and RELATED COMPONENTS - FIGURE 5

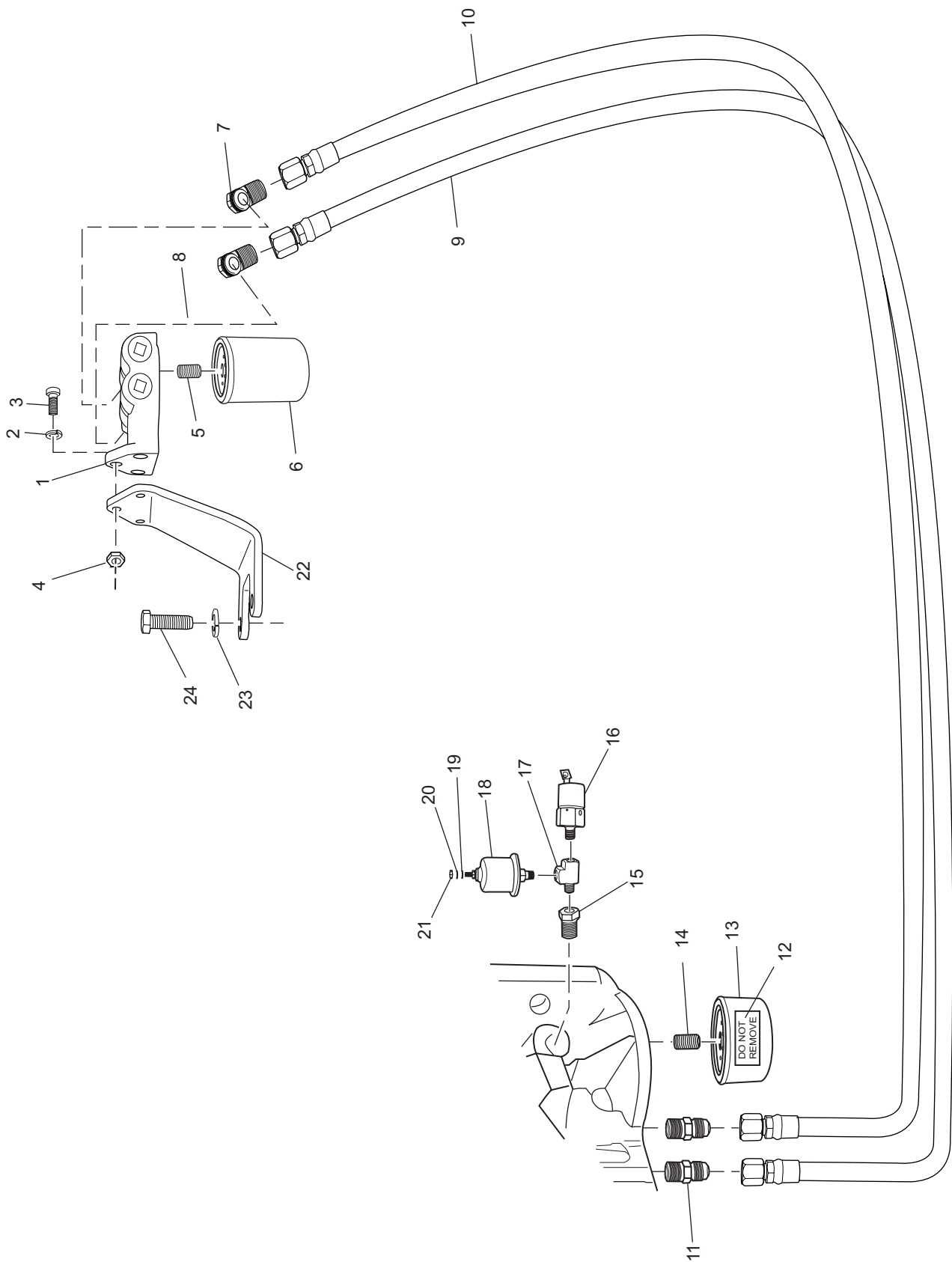


PC81005P

THROTTLE BODY and RELATED COMPONENTS - FIGURE 5

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R145021	Flame Arrestor	1
2	RS3857	Clamp , retaining	1
3	RA035036	Throttle Body Assembly	1
4	TBD	Screw , IAC valve attaching	2
5	R084003	Valve , idle air control	1
6	R020041	Sensor , throttle position	1
7	TBD	Screw , TP sensor attaching	2
8	RS1078	Nut , retaining bolt	1
9	R090230	Throttle Arm , throttle body	1
10	RS0251	Bolt , throttle arm retaining	1
11	R178014	Ball Joint Assembly , cable attaching	1
12	R090086	Cable Clip , throttle attaching	1
13	RS5122	Bolt , cable clip mounting	2
14	98223016	Bolt , bracket mounting	1
15	93920000	Lockwasher , bracket mounting	1
16	R090229	Throttle Bracket , intake	1
17	RS2055	Locking Nut , cable clip mounting bolt	2

REMOTE OIL FILTER COMPONENTS - FIGURE 6

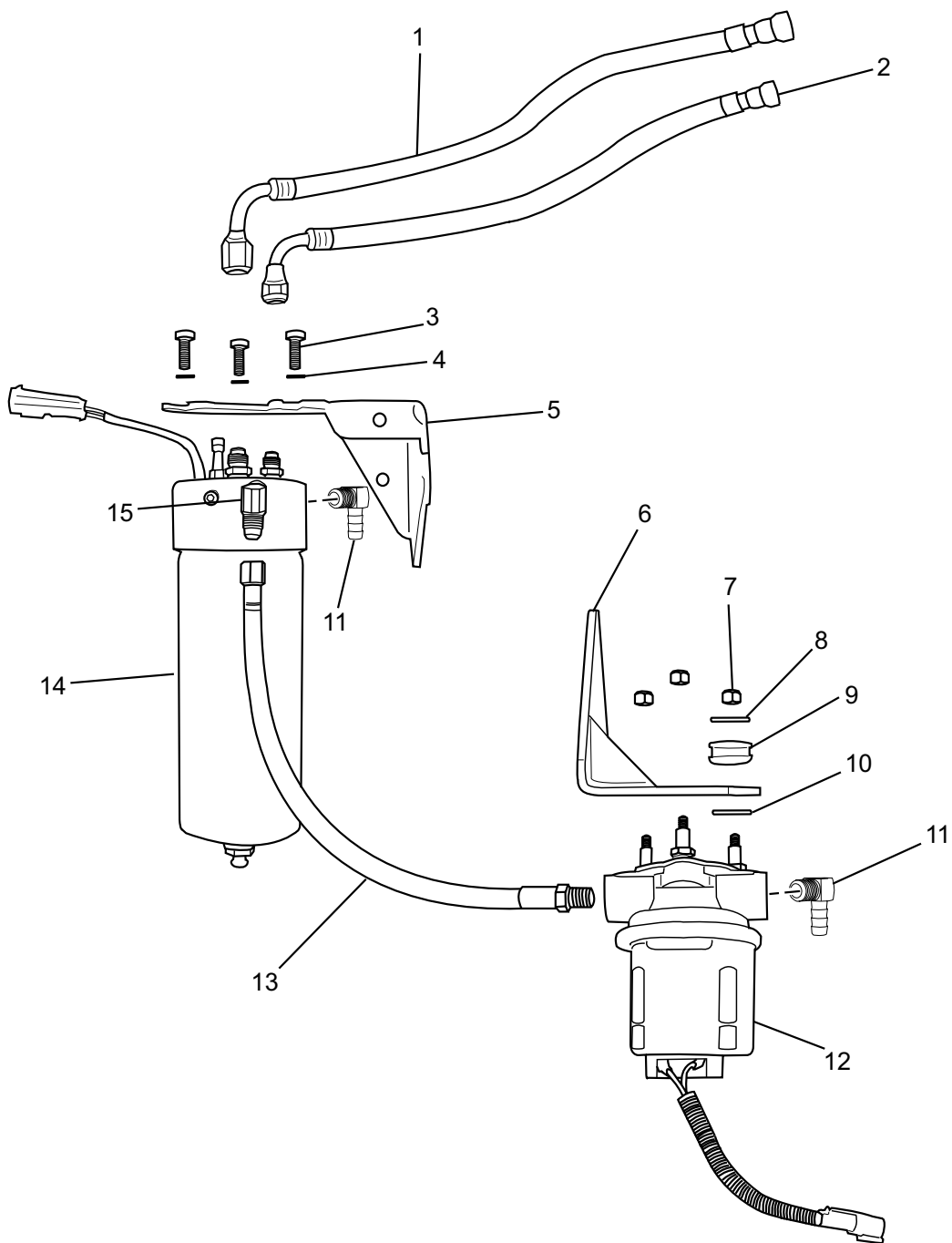


PC81006P

REMOTE OIL FILTER COMPONENTS - FIGURE 6

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R079062	Oil Filter Header	1
2	RS2179	Lockwasher , header mounting bolt	3
3	RS0282	Bolt , header mounting	3
4	RS1027	Nut , header mounting	3
5	R024203	Nipple , header filter adapter	1
6	R077001	Filter , oil	1
7	R024184	Fitting , 90 degree	2
8	R024182	Fitting , extension	1
9	RA045103C	Hose Assembly , filter header to block	1
10	RA045103C	Hose Assembly , block to filter header	1
11	R024183	Fitting , remote oil filter hose	2
12	R143135	Decal , oil bypass adapter	1
13	R079065	Adapter , oil bypass	1
14	R079048	Fitting , oil bypass adapter	1
15	RS3677	Adapter , sender attaching tee	1
16	R020015A	Switch , oil pressure	1
17	R024145	Tee , sender attaching	1
18	R020001	Sender , oil pressure	1
19	RS2746	Washer , sender terminal	1
20	RS2197	Lockwasher , sender terminal	1
21	RS1540	Nut , sender terminal	1
22	R090236	Bracket , oil filter mounting	1
23	RS2180	Lockwasher , ROF bracket mounting	2
24	RS0306	Bolt , ROF bracket mounting	2

FUEL CONTROL CELL (FCC) COMPONENTS- FIGURE 7

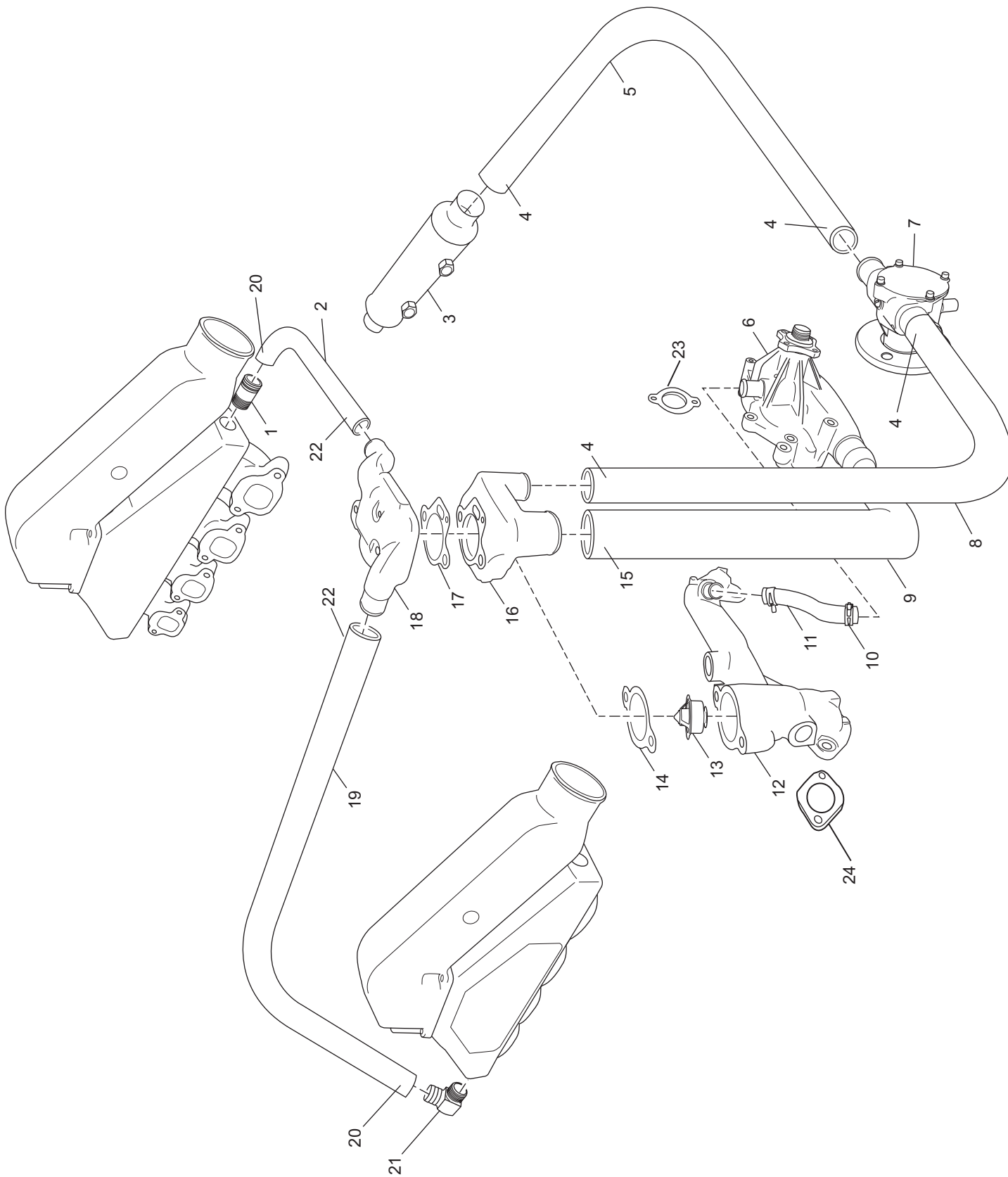


PC81007P

FUEL CONTROL CELL (FCC) COMPONENTS- FIGURE 7

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	RA085090	Hose Assembly , FCC to fuel rail (inlet)	1
2	RA085091	Hose Assembly , fuel rail to FCC (return)	1
3	RS0302	Bolt , FCC mounting	3
4	RS2180	Lockwasher , FCC mounting	3
5	R090227	Bracket , FCC mounting	1
6	R090228	Bracket , low-pressure fuel pump mounting	1
7	RS1521L	Locking Nut , fuel pump terminal	3
8	R096141	Washer , fuel pump mounting	3
9	R094035	Grommet , mounting bracket	3
10	R096142	Washer , fuel pump mounting	3
11	R024089	Fitting , 90 degree, nipple	2
12	RA080018	Fuel Pump , low-pressure	1
13	RA085070	Hose Assembly , low-pressure pump to FCC	1
14	RA080029	Fuel Control Cell (FCC) Assembly	1
NI	RP080026	Fuel Filter , FCC Assembly	1
15	R024163	Fitting , 90°	1

RAW WATER COOLING SYSTEM COMPONENTS - FIGURE 8

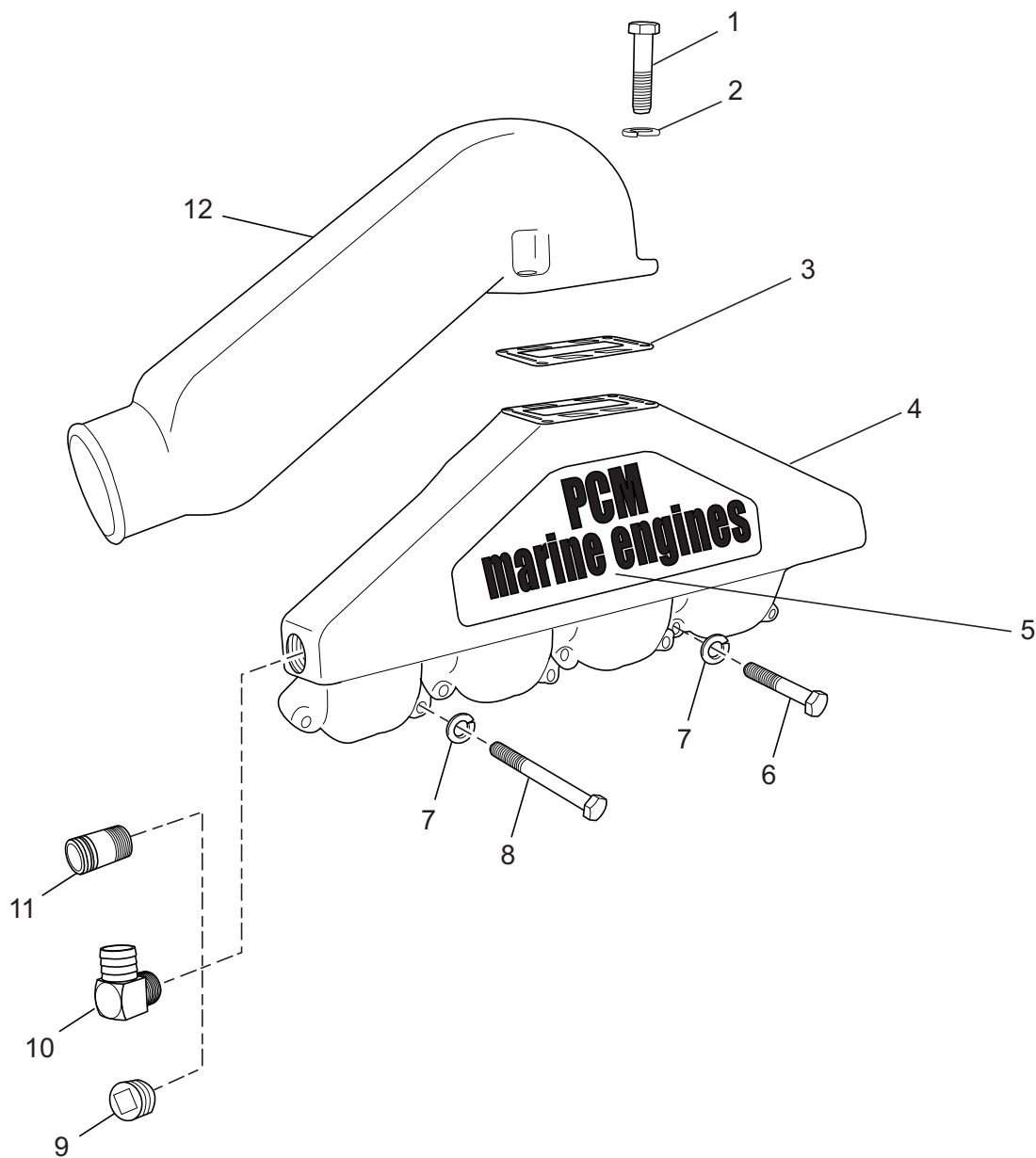


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RAW WATER COOLING SYSTEM COMPONENTS - FIGURE 8

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R024073	Fitting , straight	1
2	R045142	Hose , fill riser to exhaust manifold (Port)	1
3	R147014	Cooler Assembly	1
4	RS3858	Clamp , hose (#20)	4
5	R045113	Hose , raw water pump to cooler	1
6	RA057030	Water Pump Assembly	1
7	RA057028	Raw Water Pump Assembly	1
8	18401	Hose , raw water pump to fill riser	1
9	R045138	Hose , fill riser to circulation pump	1
10	RS3864	Clamp , hose	2
11	R045116A	Hose , circulation pump to water crossover	1
12	R025034	Water Crossover	1
13	R026002	Thermostat (160 degree)	1
14	RM0121	Gasket , distribution housing to water crossover	1
15	RS3855	Clamp , hose	2
16	R025028	Fill Riser , lower	1
17	RM0256	Gasket , upper fill riser to lower fill riser	1
18	R025029	Fill Riser , upper	1
19	R045143	Hose , fill riser to exhaust manifold (Starboard)	1
20	RS3851	Clamp , hose	2
21	R024006A	Fitting , 90 degree	1
22	RS3858	Clamp , hose	2
23	RM0266	Gasket , water pump to engine block	2
24	RM0268	Gasket , water crossover	2

EXHAUST MANIFOLD and COMPONENTS - FIGURE 9

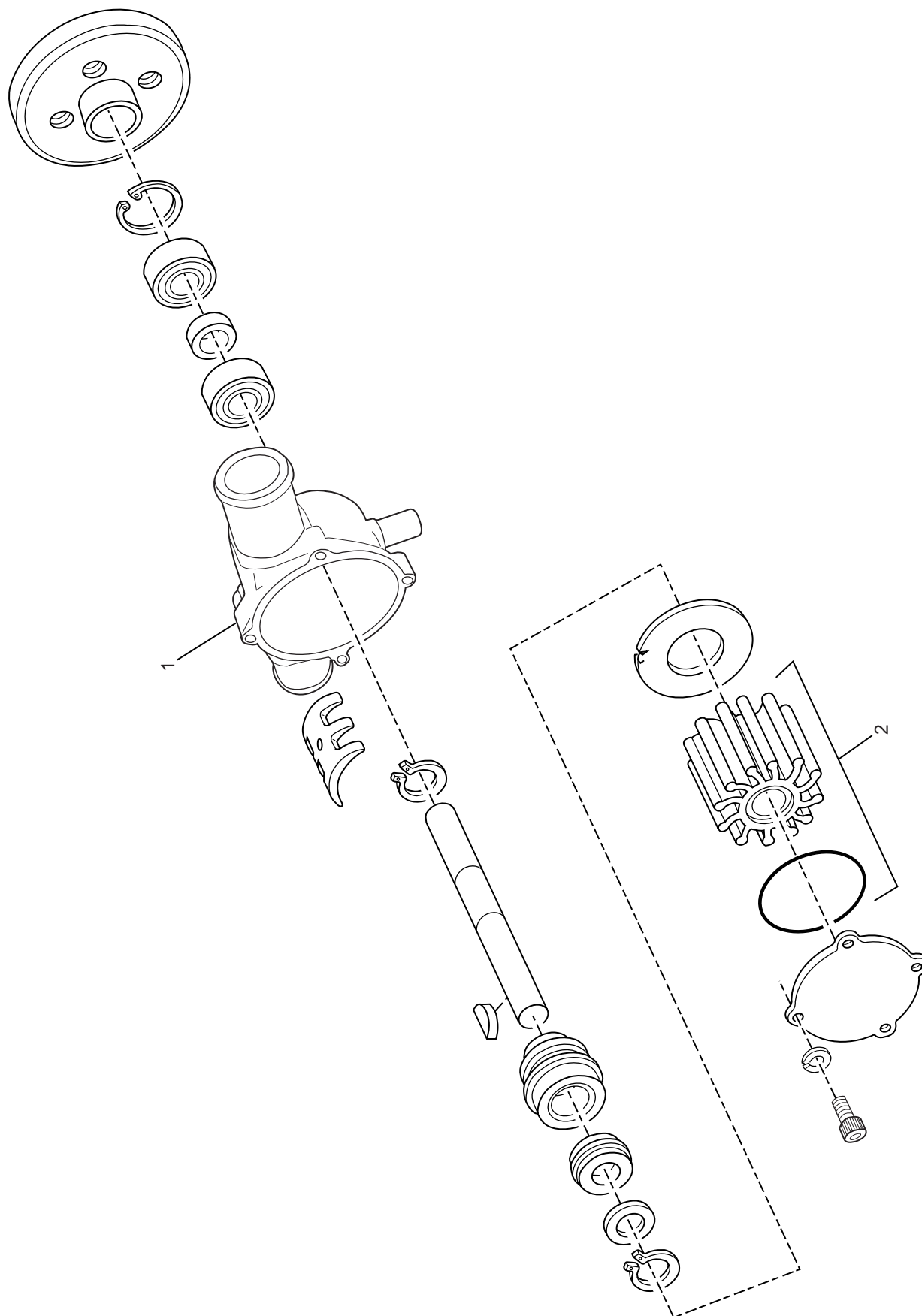


PC81012P

EXHAUST MANIFOLD and COMPONENTS - FIGURE 9

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	RS0305	Bolt , exhaust elbow attaching	8
2	RS2180	Lockwasher , exhaust elbow attaching bolt	8
3	RM0099	Gasket , manifold to exhaust elbow	2
4	R028010A	Exhaust Manifold	2
5	R143002C	Decal , exhaust manifold	2
6	98333040	Bolt , manifold to cylinder head (short)	8
7	RS2179	Lockwasher , manifold to head bolt	16
8	98333075	Bolt , manifold to cylinder head (long)	8
9	RS3533A	Plug , exhaust manifold	2
10	R024006A	Fitting , 90 degree	1
11	R024073	Fitting , straight	1
12	R029004	Exhaust Elbow Assembly	2

RAW WATER COOLING PUMP - FIGURE 10

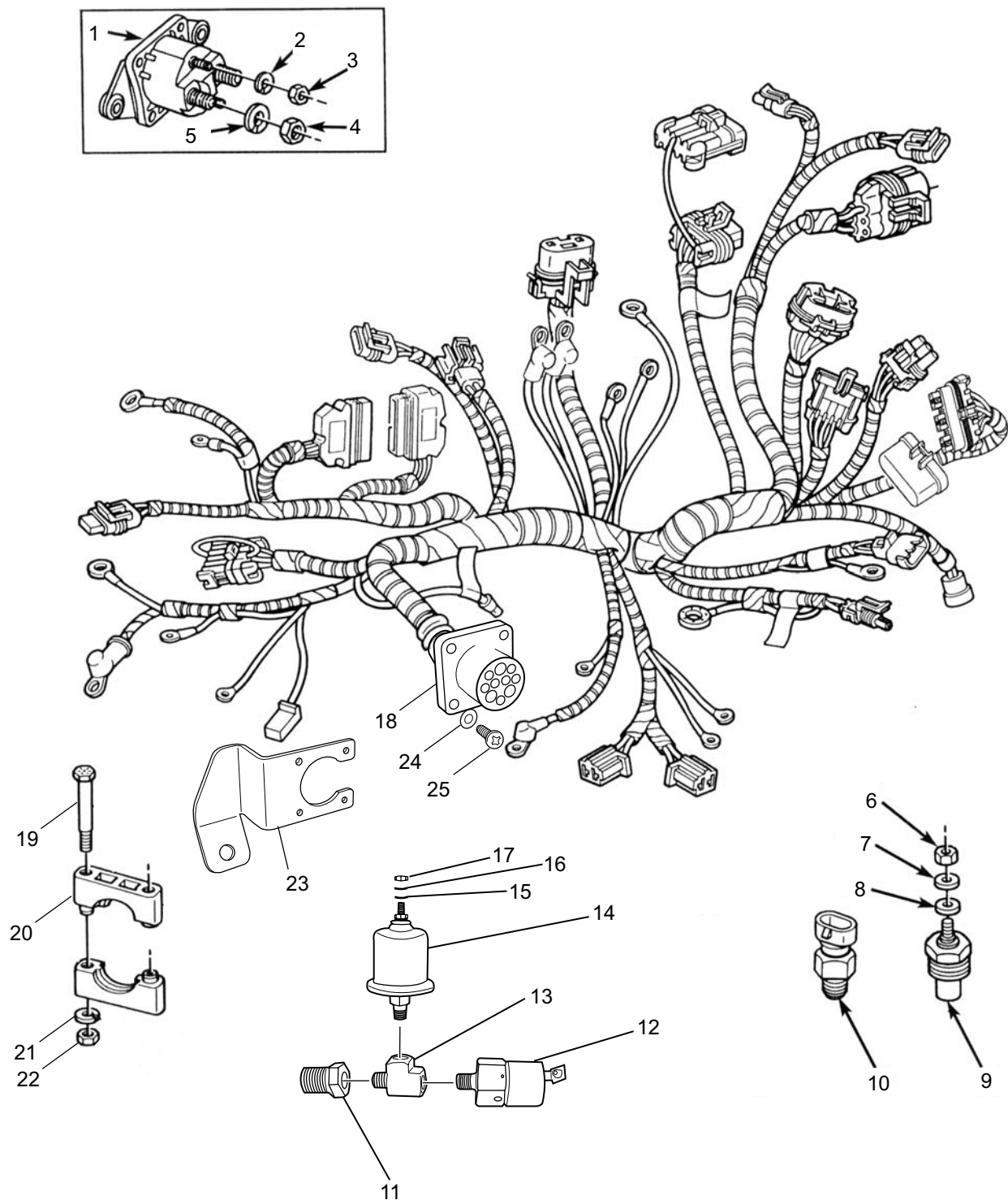


PC81023

RAW WATER COOLING PUMP - FIGURE 10

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	RA057028	Raw Water Pump Assembly	1
2	RP061017	Kit , impeller	1

WIRING HARNESS ASSEMBLIES and SENDERS - FIGURE 11

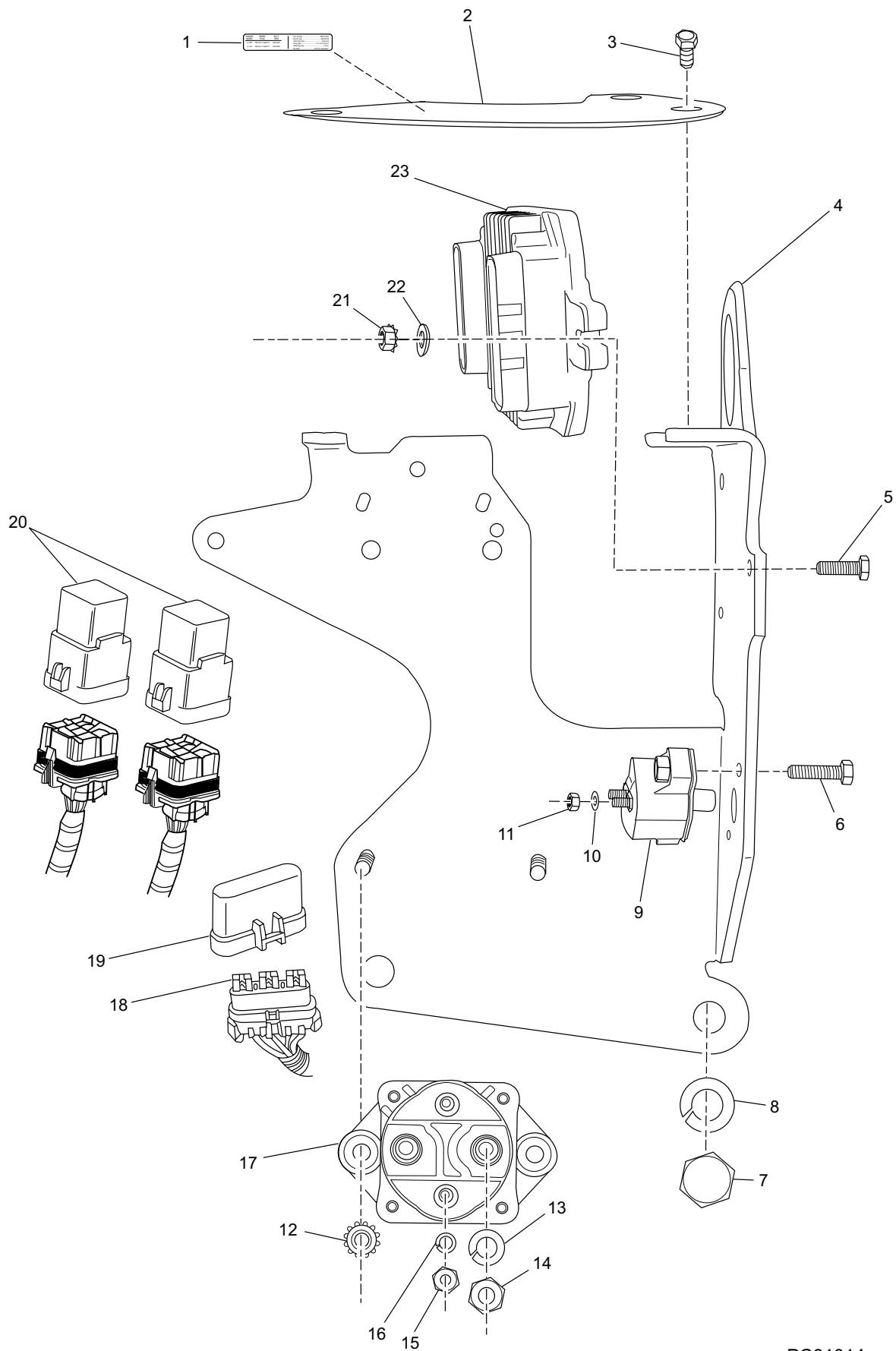


PC81013P

WIRING HARNESS ASSEMBLIES and SENDERS - FIGURE 11

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R130014	Solenoid , starter slave	1
2	95011000	Nut , solenoid terminal (#10)	1
3	93003000	Lockwasher , solenoid terminal (#10)	1
4	95201000	Nut , solenoid terminal (5/16")	2
5	93203000	Lockwasher , solenoid terminal (5/16")	2
6	RS1540	Nut , sender terminal	1
7	RS2197	Lockwasher , sender terminal	1
8	RS2746	Washer , sender terminal	1
9	R020003	Sender , temperature	1
10	R020019	Sensor , engine coolant temperature (ECT)	1
11	RS3677	Adapter , sender attaching tee	1
12	R020015A	Switch , oil pressure	1
13	R024145	Tee , sender attaching	1
14	R020001	Sender , oil pressure	1
15	RS2746	Washer , sender terminal	1
16	RS2197	Lockwasher , sender terminal	1
17	RS1540	Nut , sender terminal	1
18	RA121071	Engine Wiring Harness Assembly	1
19	90105300	Bolt , clamp attaching	2
20	R127093	Clamp , 10-pin mounting (round base)	2
21	92100000	Lockwasher , attaching bolt	2
22	95104300	Nut , attaching bolt	2
23	R090251	Bracket , 10-pin attaching (square base)	1
24	R090142	Washer , 10-pin attaching (square base)	4
25	RS5115	Screw , 10-pin attaching (square base)	4

ECM and RELAYS - FIGURE 12

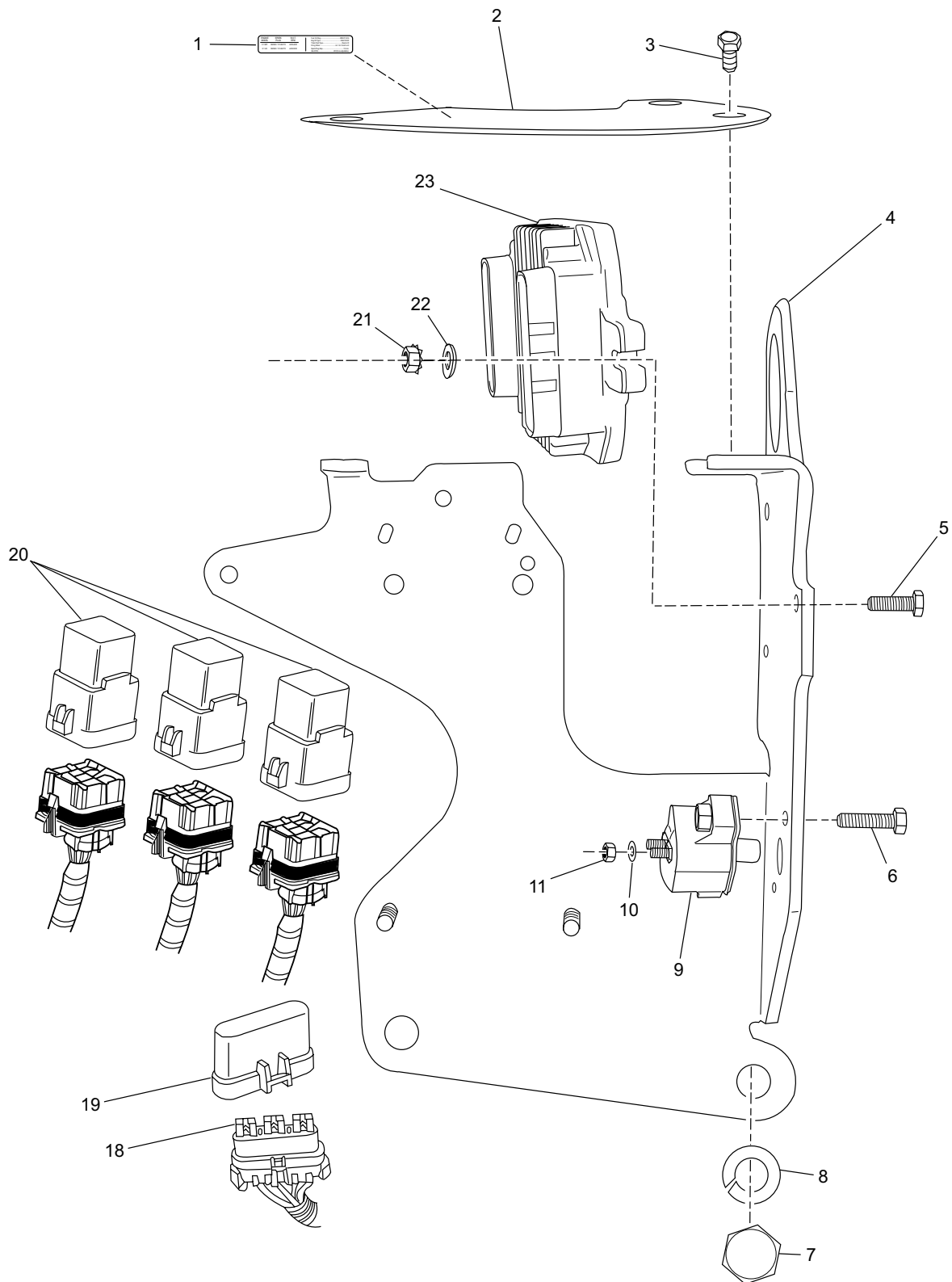


PC81014

ECM and RELAYS - FIGURE 12

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R143128	Decal , ECM cover	1
2	R126015	Cover , ECM	1
3	RS5126	Screw , ECM cover attaching	3
4	R090231	Bracket , ECM relay mounting	1
5	RS0254	Bolt , ECM mounting	3
6	RS5084	Bolt , circuit breaker mounting	2
7	98443025	Bolt , ECM relay mounting bracket attaching	2
8	93940000	Lockwasher , bracket mounting bolt	2
9	R153006B	Circuit Breaker Assembly (50 amp)	1
10	P/O item 9	Washer , circuit breaker terminal	2
11	P/O item 9	Nut , circuit breaker terminal	2
12	RS1078	Nut , circuit breaker mounting starwasher	2
13	RS2200	Lockwasher , solenoid terminal (5/16")	1
14	RS1046	Nut , solenoid terminal (5/16")	1
15	RS1540	Nut , solenoid terminal (#10)	1
16	RS2197	Lockwasher , solenoid terminal (#10)	1
17	R130014	Solenoid , starter slave	1
18	R153017B	Fuses , 20 amp	3
19	R126014	Cover , fuse holder	1
20	R130012	Relay Assembly , fuel pump and ignition	2
21	RS1078	Nut , ECM mounting starwasher	3
22	92100000	Washer , ECM mounting	1
23	R116019D	Electronic Control Module (ECM) OLD Coils (HO - prior to S/N425408)	1
23	R116019H	Electronic Control Module (ECM) NEW Coils (HO - S/N 425408 and above)	1

ECM and RELAYS (Service Harness) - FIGURE 12a

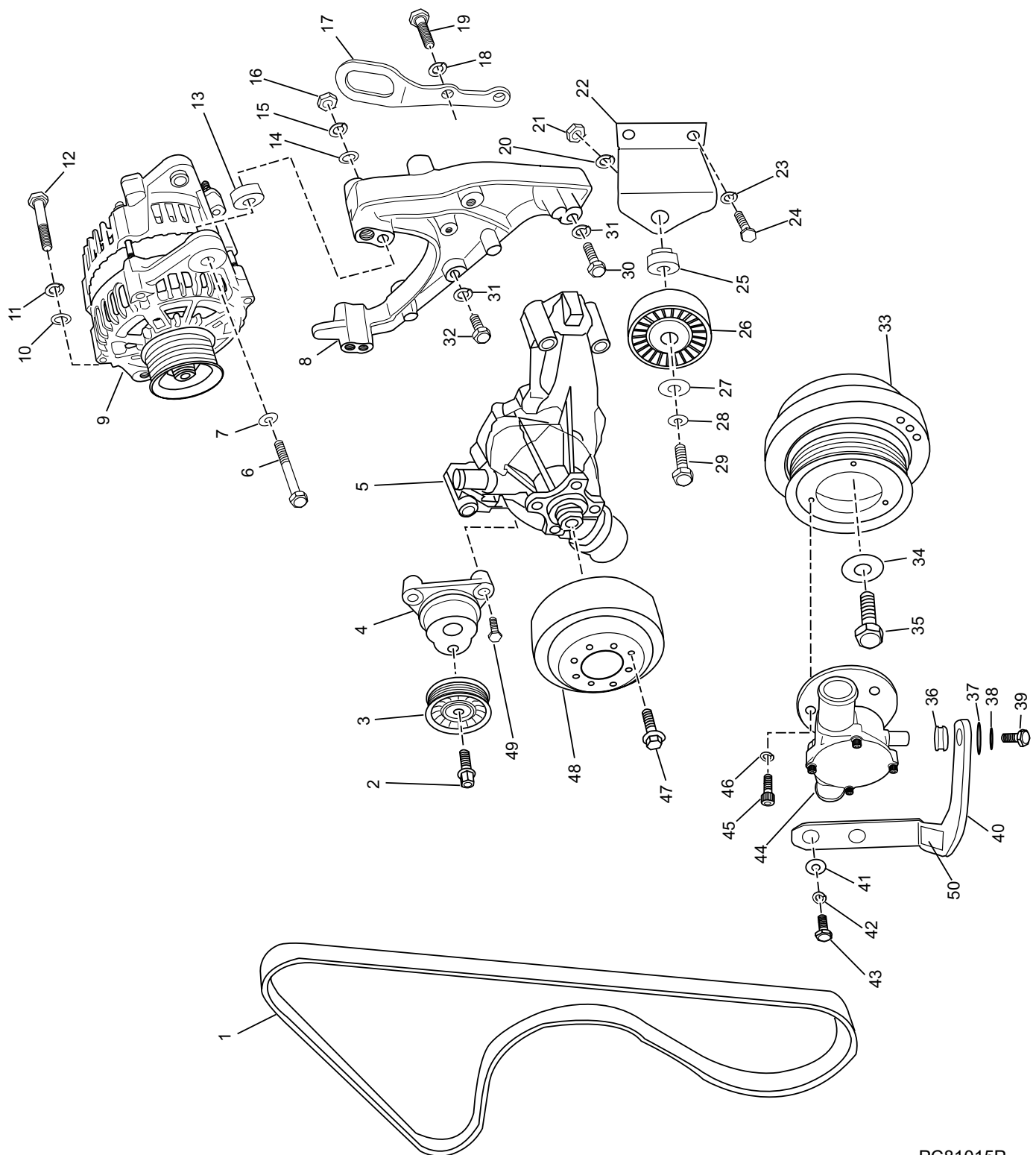


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ECM and RELAYS (Service Harness) - FIGURE 12a

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R143128	Decal , ECM cover	1
2	R126015	Cover , ECM	1
3	RS5126	Screw , ECM cover attaching	3
4	R090231	Bracket , ECM/relay mounting	1
5	RS0254	Bolt , ECM mounting	3
6	RS5084	Bolt , circuit breaker mounting	2
7	98443025	Bolt , ECM/relay mounting bracket attaching	2
8	93940000	Lockwasher , bracket mounting bolt	2
9	R153006B	Circuit Breaker Assembly (50 amp)	1
10	P/O item 9	Washer , circuit breaker terminal	2
11	P/O item 9	Nut , circuit breaker terminal	2
18	R153017B	Fuses , 20 amp	3
19	R126014	Cover , fuse holder	1
20	R130011A	Relay Assembly , fuel pump, ignition, starter	3
21	RS1078	Nut , ECM mounting starwasher	3
22	92100000	Washer , ECM mounting	1
23	R116019D	Electronic Control Module (ECM) OLD Coils (HO - prior to S/N425408)	1
23	R116019H	Electronic Control Module (ECM) NEW Coils (HO - S/N 425408 and above)	1

ACCESSORY DRIVE SYSTEM COMPONENTS - FIGURE 13

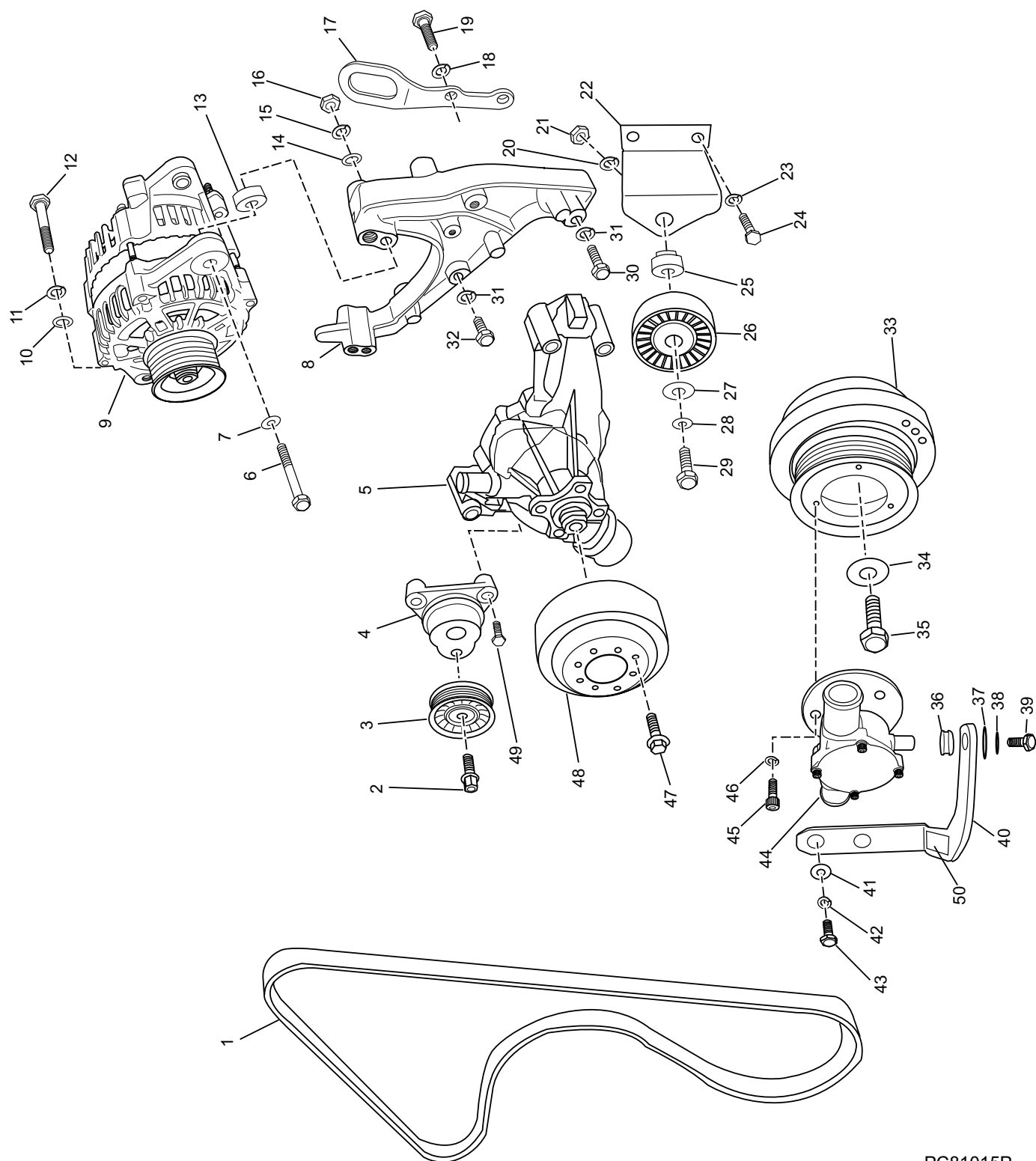


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ACCESSORY DRIVE SYSTEM COMPONENTS - FIGURE 13

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R066024	Belt , accessory drive	1
2	TBD	Bolt , tensioner attaching	1
3	TBD	Pulley , belt tensioner	1
4	RA068001	Tensioner , belt	1
5	RA057030	Water Pump Assembly	1
6	98333110	Bolt , alternator attaching	1
7	92930000	Washer , alternator attaching bolt	1
8	R090225	Bracket , alternator mounting	1
9	RA097007	Alternator Assembly (65 amp)	1
10	92930000	Washer , alternator attaching bolt	1
11	93930000	Lockwasher , alternator attaching bolt	1
12	90205300	Bolt , alternator attaching	1
13	R062081	Spacer , alternator mounting	1
14	92930000	Washer , alternator mounting bolt	1
15	93930000	Lockwasher , alternator mounting bolt	1
16	97330000	Nut , alternator mounting	1
17	R042009	Bracket , lift	1
18	93940000	Lockwasher , lift bracket attaching bolt	2
19	98443025	Bolt , lift bracket attaching	2
20	93940000	Lockwasher , idler pulley attaching bolt	1
21	97440000	Nut , idler pulley attaching bolt	1
22	R090232	Bracket , idler pulley mounting	1
23	93940000	Lockwasher , idler pulley mounting bracket bolt	2
24	98443025	Bolt , idler pulley mounting bracket	2
25	R062083	Spacer , idler pulley	1
26	R065040	Pulley , idler	1
27	R096145	Washer , idler pulley attaching bolt large	1
28	92940000	Washer , idler pulley attaching bolt small	1
29	98443050	Bolt , idler pulley attaching	1
30	98449055	Bolt , alternator bracket attaching bolt (long)	1
31	93940000	Lockwasher , alternator bracket attaching bolt	2
32	98449050	Bolt , alternator bracket attaching (short)	1
33	R064015A	Balancer , crankshaft (HO)	1
34	TBD	Washer , crankshaft balancer	1
35	TBD	Bolt , crankshaft balancer	1
36	R094038	Grommet , rubber	1

ACCESSORY DRIVE SYSTEM COMPONENTS - FIGURE 13

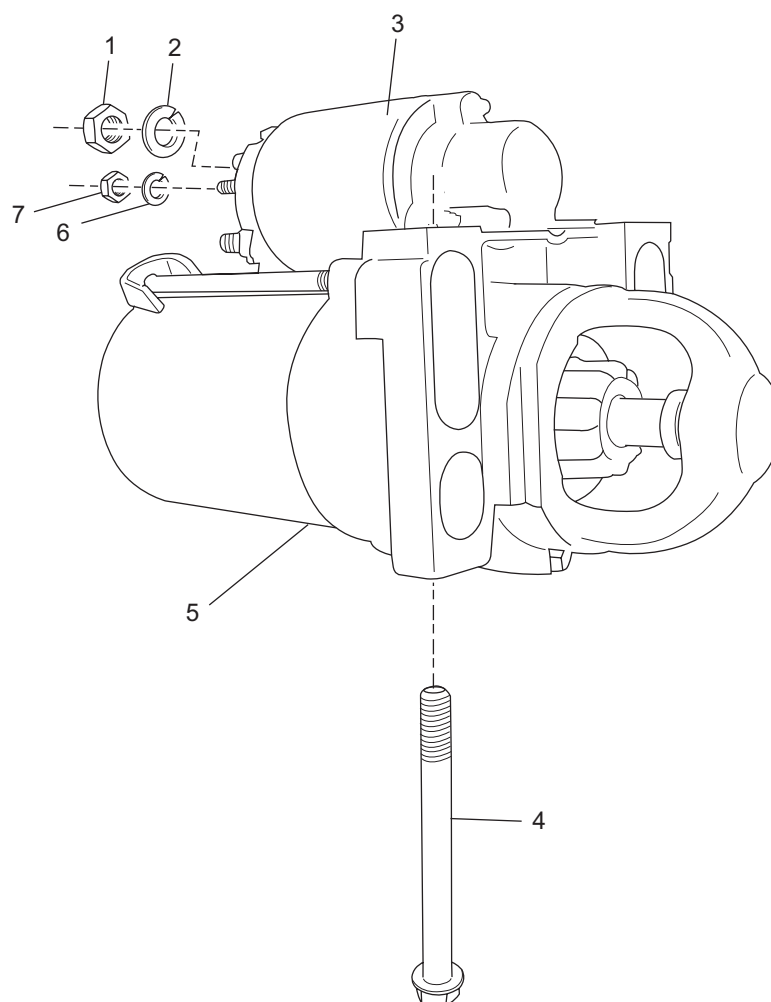


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ACCESSORY DRIVE SYSTEM COMPONENTS - FIGURE 13

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
37	RS2673	Washer , mounting bolt large	1
38	RS2179	Washer , mounting bolt small	1
39	RS0280	Bolt , raw water pump mounting	1
40	R090216	Bracket , raw water pump mounting	1
41	92940000	Washer , raw water pump mounting bracket	2
42	93940000	Lockwasher , raw water pump mounting bracket	2
43	98443025	Bolt , raw water pump mounting bracket	2
44	RA057028	Raw Water Pump Assembly	1
45	99443030	Bolt , raw water pump-to-balancer mounting	3
46	93940000	Lockwasher , raw water pump-to-balancer mounting	3
47	TBD	Bolt , engine circulating pump pulley mounting	4
48	R065044	Pulley , engine circulating pump	1
49	98443050	Bolt , belt tensioner mounting	2
50	R143136	Decal , belt routing (8.1)	1

STARTER ASSEMBLY COMPONENTS - FIGURE 14



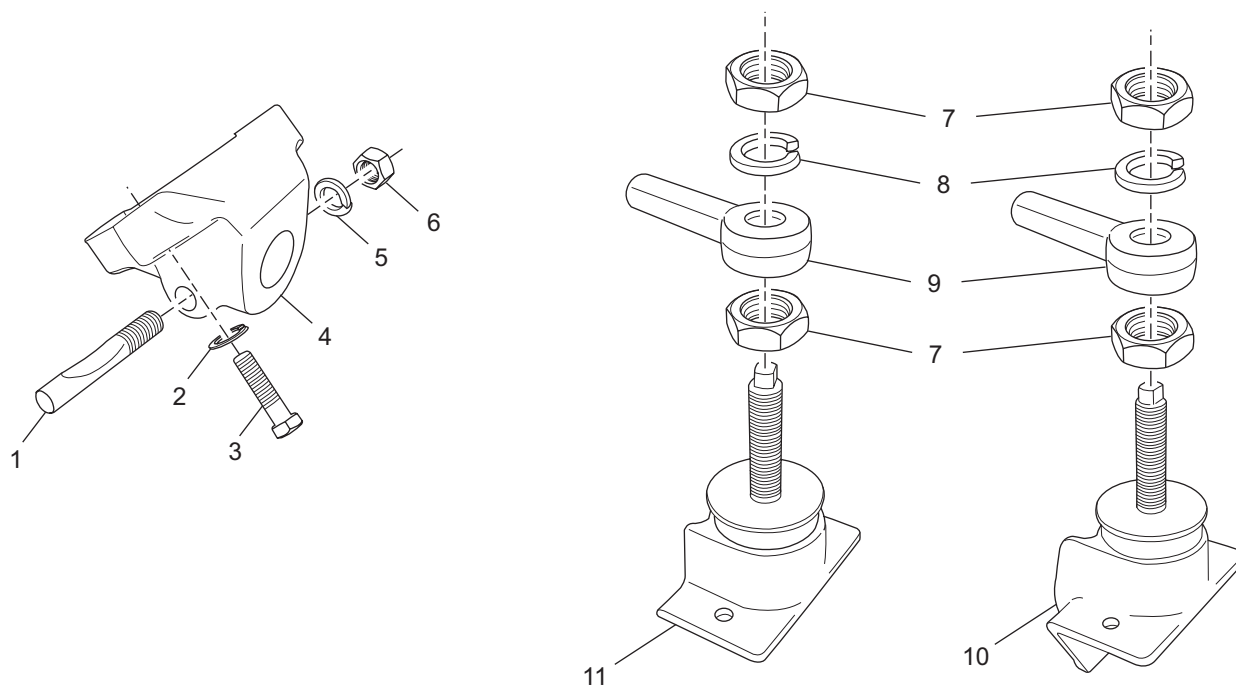
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STARTER ASSEMBLY COMPONENTS - FIGURE 14

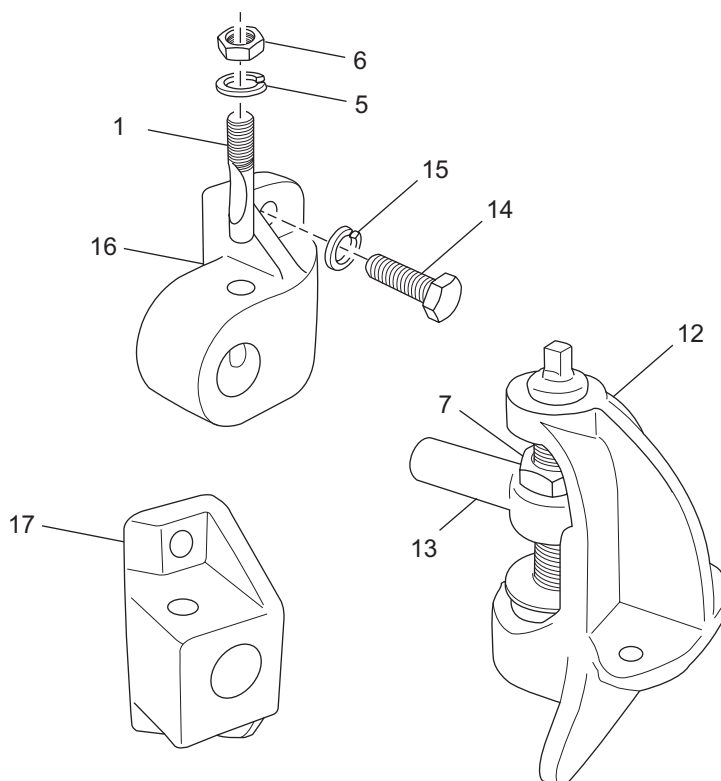
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	RS7018	Nut , solenoid terminal	1
2	RS7080	Lockwasher , solenoid terminal	1
3	RU0050A	Solenoid , starter	1
4	R009167	Bolt , starter mounting	2
5	RA122015	Starter Motor Assembly	1
6	93003000	Lockwasher , solenoid terminal	1
7	RS7036	Nut , solenoid terminal	1

ENGINE and TRANSMISSION MOUNTS - FIGURE 15

Engine Mount Group
Front Mount



Engine Mount Group
Rear Mount

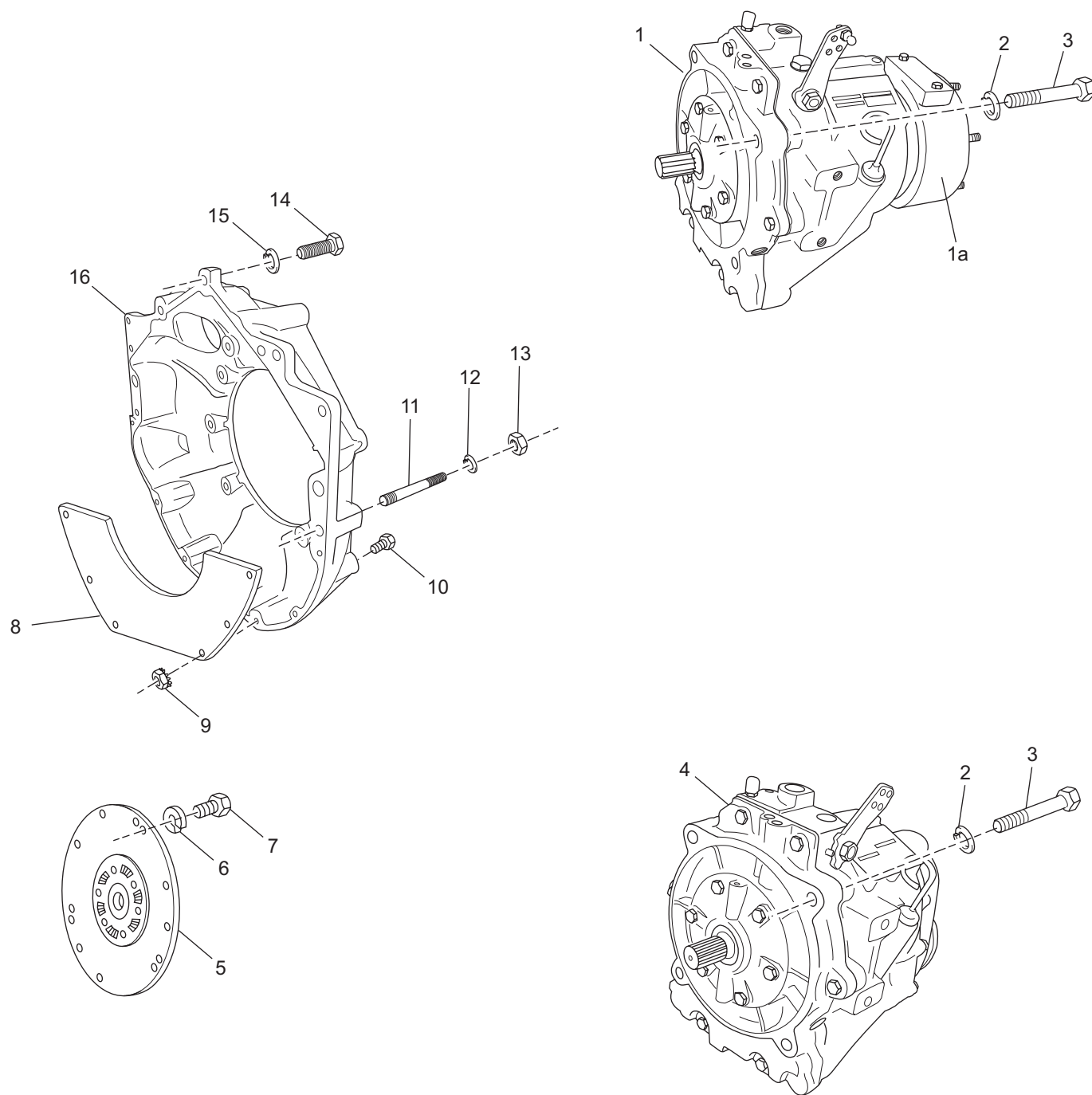


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ENGINE and TRANSMISSION MOUNTS - FIGURE 15

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R095020	Bolt , trunion clamp	2
2	RS2180	Lockwasher , engine mount attaching bolt	6
3	RS0306	Bolt , engine mount attaching	6
4	R090071	Mount , engine front	2
5	RS2181	Lockwasher , trunion clamp bolt	2
6	RS1529	Nut , trunnion clano bolt	2
7	RS1075	Nut , adjustment and lock	4
8	RS2186	Lockwasher , adjusting nut	2
9	R091001	Trunnion	2
10	RC091001	Trunnion Assembly	1
11	RA092016	Trunnion Assembly	1
12	RA092011A	Trunnion Assembly	1
13	R091003	Trunnion	2
14	RS0328	Bolt , rear mount attaching	4
15	RS2181	Lockwasher , rear mount attaching bolt	4
16	R090205	Mount , rear	2

BELL HOUSING ASSEMBLY - FIGURE 16

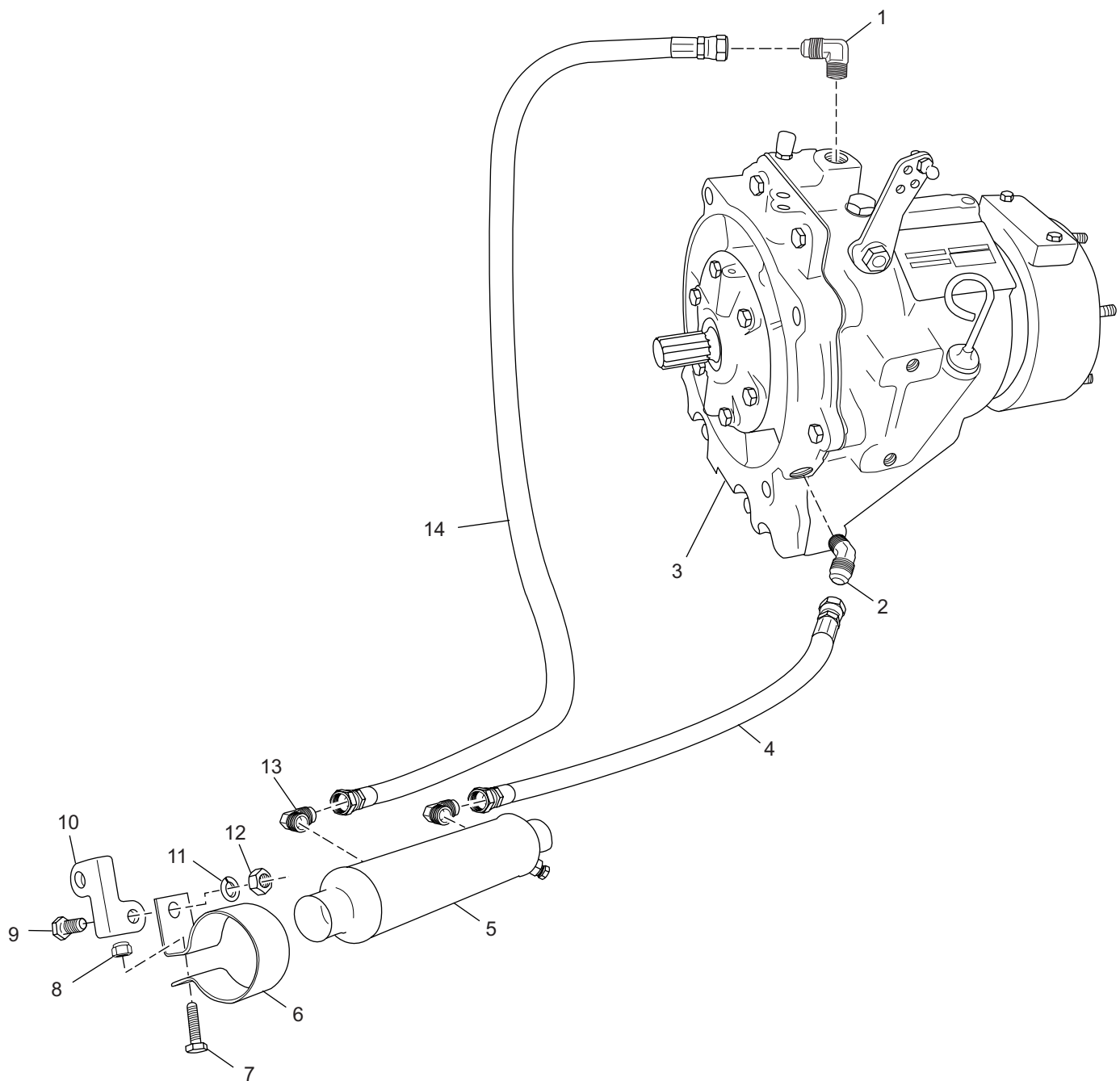


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BELL HOUSING ASSEMBLY - FIGURE 16

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	RA157016	Transmission Assembly , ("V" - Drive)	AR
2	RS2180	Lockwasher , transmission attaching bolt	4
3	RS0329	Bolt , transmission attaching	4
4	RA157017	Transmission Assembly , (standard)	AR
5	R140016	Plate , damper	1
6	93940000	Lockwasher , damper plate attaching bolt	4
7	98446030	Bolt , damper plate attaching	4
8	R019008	Cover , dust	1
9	RS1078	Nut , dust cover attaching	2
10	RS0256	Bolt , dust cover attaching	2
11	R031031	Stud , bellhousing attaching	2
12	93940000	Lockwasher , bellhousing attaching	2
13	97440000	Nut , bellhousing attaching	2
14	98443050	Bolt , bellhousing attaching	3
15	93940000	Lockwasher , bellhousing attaching	3
16	R142014	Bellhousing	1

TRANSMISSION AND RELATED COMPONENTS (V-Drive) - FIGURE 17



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TRANSMISSION AND RELATED COMPONENTS (V-Drive) - FIGURE 17

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	R024010	Fitting , 90 degree	1
2	R024053	Fitting , 45 degree	1
3	RA157017	Transmission , 1.1:1	1
4	RA045007S	Hose Assembly , cooler to transmission	1
5	R147014	Oil Cooler Assembly	1
6	R090010	Clamp , oil cooler assembly mounting	1
7	RS0254	Bolt , oil cooler attaching	1
8	RS1078	Nut , oil cooler attaching	1
9	RS0302	Bolt , oil cooler clamp attaching	1
10	R090013A	Bracket , oil cooler mounting	1
11	RS2180	Lockwasher , oil cooler clamp attaching bolt	1
12	RS1028	Nut , oil cooler clamp attaching bolt	1
13	R024010	Fitting , 90 degree	2
14	RA045007T	Hose Assembly , transmission to cooler	1