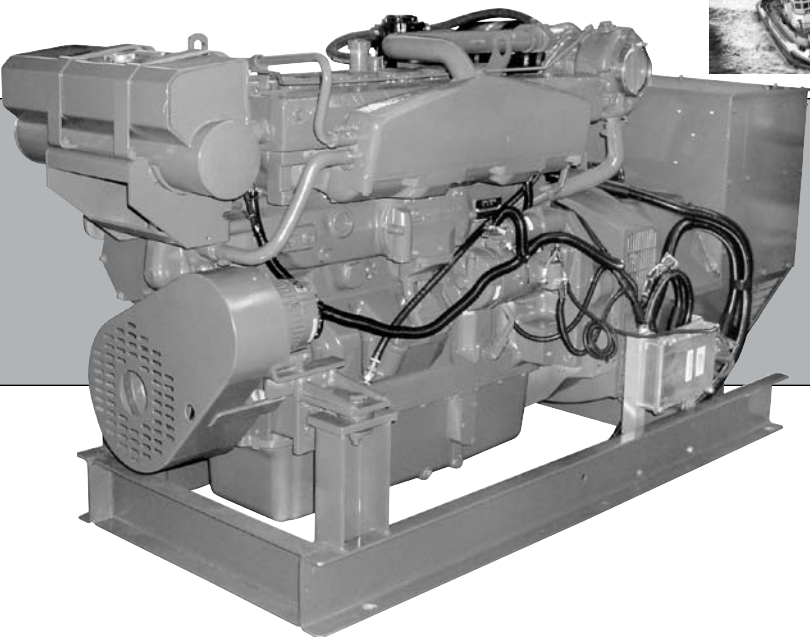




P8.1

For Models: L1166A, MP150C,
M175C2, and NL1166H

PARTS CATALOG

Marine Generators | Marine Diesel Engines | Land-Based Generators



LUGGER





— CALIFORNIA —
Proposition 65 Warning:

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Northern Lights

4420 14th Avenue N.W.
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PART NO.: P8.1 11/07



PARTS CATALOG

for Models
L1166A, MP150C, M175C2, and NL1166H

Please read thoroughly before attempting to use this manual:

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MODEL DESIGNATION

MODELS INCLUDED

This manual covers the operating instructions for:

L1166A, M175C2, MP150C, and NL1166H which all use the 8.1 engine

MODEL NUMBERS

Model numbers give the unit's application, block model, aspiration, and RPM:

L, M, NL

L - Propulsion engine
M - Marine generator set
NL - Industrial generator set

175, 150

175 - 175 Kilowatts
150 - 150 Kilowatts

1166

Model number of engine block
Bore Cylinders
116 mm 6

A, C, H

A - Aftercooled
C - Commercial
H - High Output
2 - Tier II compliant

L1166A

=

Lugger propulsion engine, aftercooled.

M175C2

=

Northern Lights commercial marine diesel generator set with an 8.1 engine, Tier II compliant.

MP150C

=

Northern Lights commercial marine diesel generator set with an 8.1 engine.

NL1166H

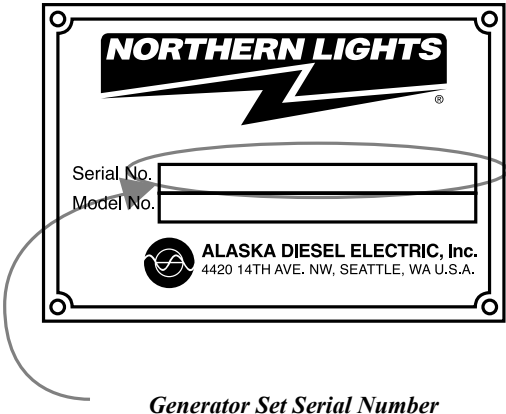
=

Northern Lights industrial diesel generator set with an 8.1 engine.

SERIAL NUMBERS

NORTHERN LIGHTS

Your set has three serial numbers: ① an engine number stamped on the block, ② a generator plate, and ③ a generator set plate. Use the serial number on the **generator set plate** when ordering parts or in correspondence. The generator set plate is found on the service side of the generator and resembles the drawing below.



READING A PARTS PAGE

IMPORTANT:

Before selecting parts, be sure that you are choosing parts from the correct page.
Check the model designation at the page top.
Do not use this illustration for parts purchasing.

1 — ELECTRICAL SYSTEM

ALTERNATOR ASSEMBLY: M - NL844

5

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIALNUMBER
0	185046210	1	Alternator Assembly	-
1	185446219	1	Flywheel, complete	-
2	185446217	1	Plate, complete	-
3	185716200	1	Plate	-
4	185446218	1	Stator, complete	-
5	040126210	2	Bearing	-
6	020210010	1	Nut	-
7	027100010	1	Spring washer	-
8	026100010	1	Washer	-
9	185446220	1	Clamp	-
10	015140408	1	Screw	-
11	015140425	2	Screw	-
12	199236510	1	Collar	-

13 — P844 06/05

11 — 5-2

14

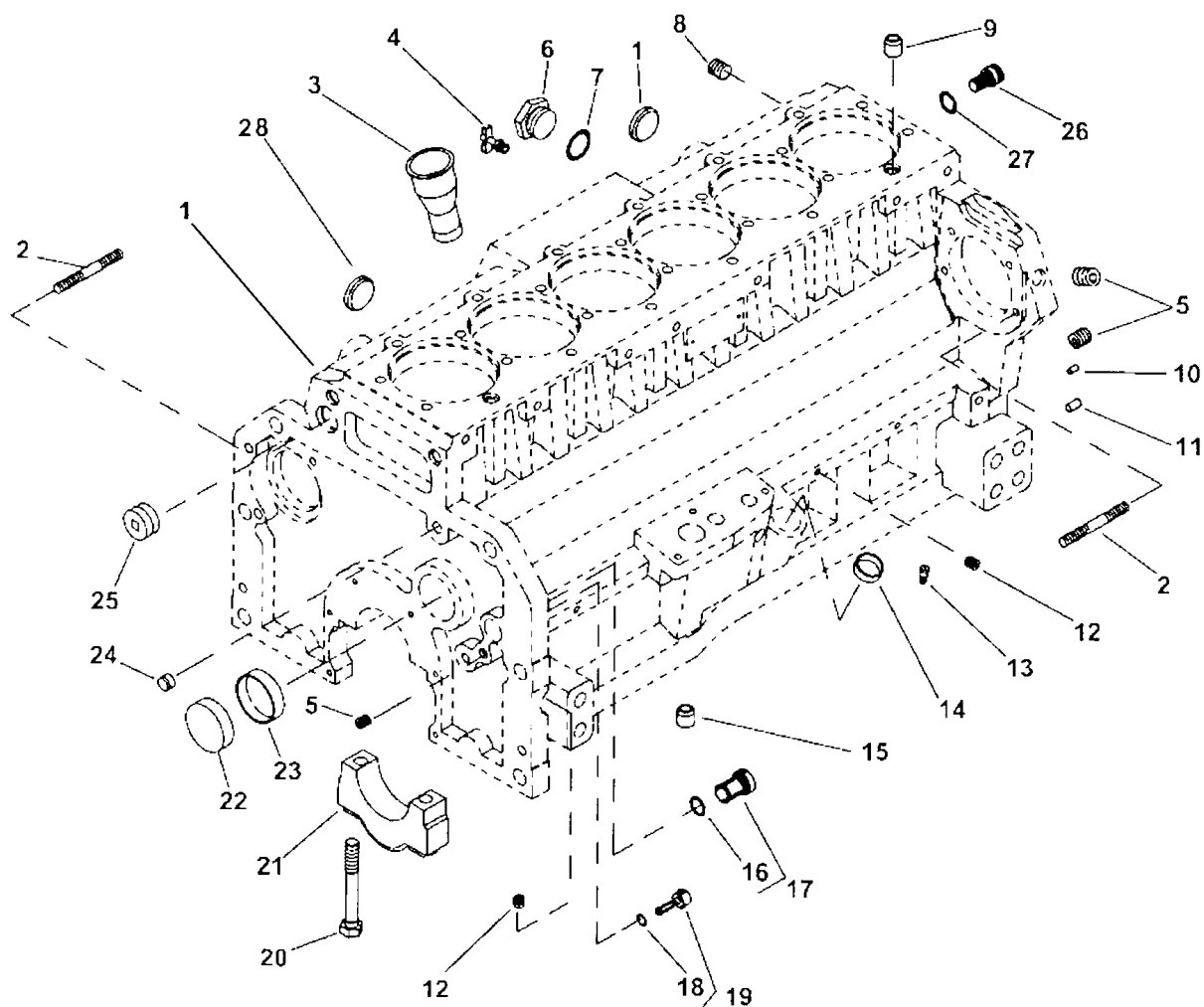
12

REFERENCES:

1. Grouping section title.
2. Model designation of equipment that uses parts listed on this page.
3. Title and description of assembly.
4. Drawing numbers that correspond to key column numbers for parts identification.
5. Key column for locating parts shown on drawing.
6. Part number.
7. Quantity of parts used.
8. Description of each component part.
9. Serial number of unit the part fits.
10. Assembly or kit designated by Key 0 or ••/•.
11. Grouping index number.
12. Page number within the grouping index.
13. Manual title.
14. Page publication date.

NOTE: ⇨ Arrows always point toward the front of the engine.

Cylinder Block Assembly

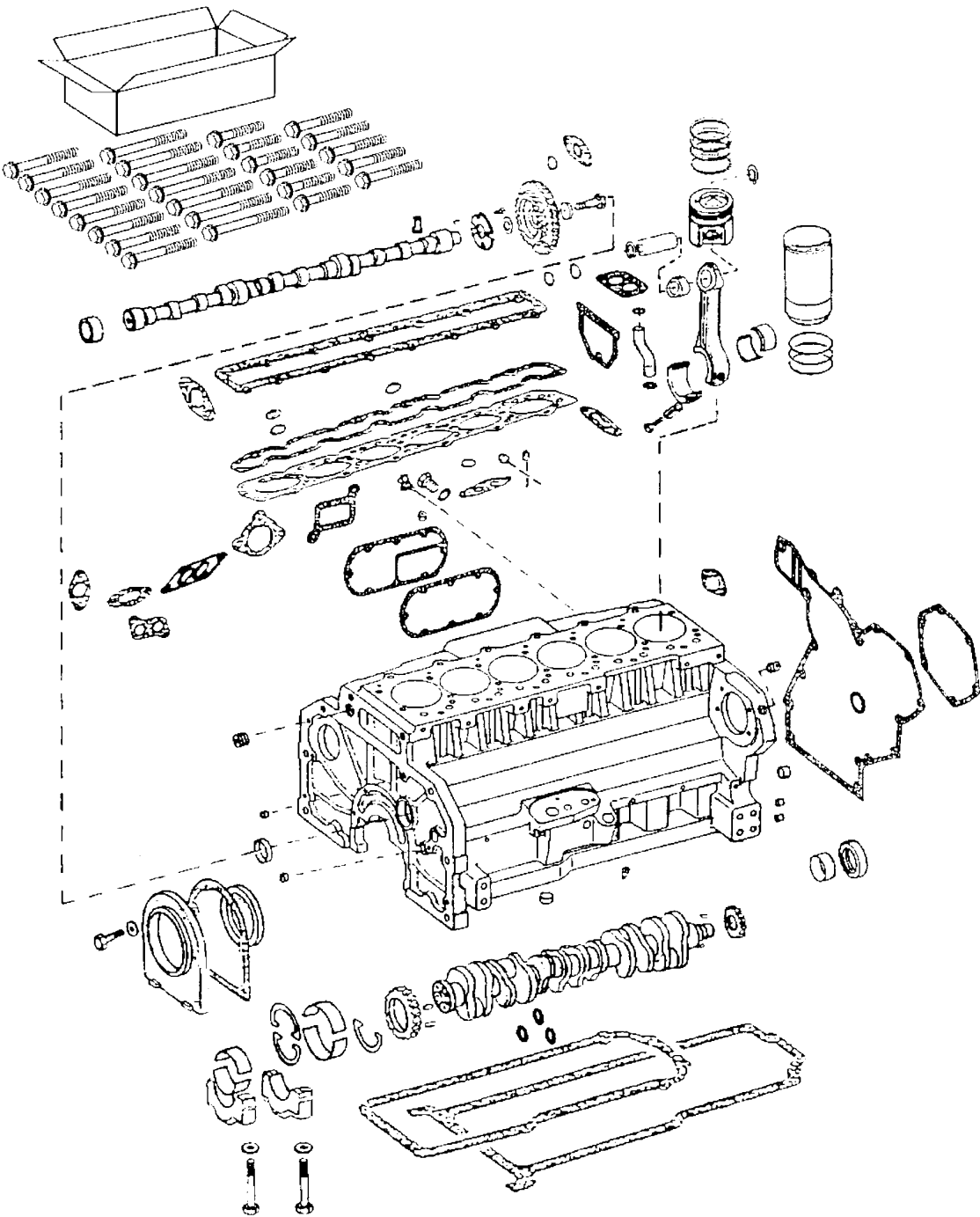


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Cylinder Block Assembly

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1		1	Cylinder Block (order short block assembly)	-
2	R515224	4	Stud	-
3	R503983	1	Dipstick Tube	-
4	AT13740	1	Drain Valve	-
5	R36599	3	Plug	-
	RE57836	1	Pipe Plug, 1/2"	-
6	R39741	1	Drain Plug	-
7	U13639	1	O-ring	-
8	15H690	1	Pipe Plug, 3/4"	-
	RE71255	1	Pipe Plug	-
9	R42340	2	Bushing	-
10	R1612R	2	Dowel Pin	-
11	F1743R	2	Dowel Pin	-
12	RE71255	7	Pipe Plug	-
13	R43621	6	Orifice	-
14	T35390	1	Plug	-
15	R500642	2	Bushing	-
16	R27149	1	O-ring	-
17	R121929	1	Plug	-
18	A4365R	1	O-ring	-
19	AR61589	1	Plug	-
20	R122364	14	Bolt	-
21	R120953	6	Main Bearing Cap	-
	R120954	1	Thrust Bearing Cap	-
22	R82007	1	Plug	-
23	R87561	4	Bushing	-
24	R61288	1	Dowel Pin	-
25	15H562	1	Pipe Plug 1"	-
26	R501255	1	Plug	-
27	B2762R	1	O-ring	-
28	R43409	2	Plug	-
29	15H686	1	Pipe Plug 1" (not shown)	-
30	T35390	**	Plug (not shown)	-
31	R104592	1	Pipe Plug (not shown)	-
32	R71732	1	O-ring (not shown)	-

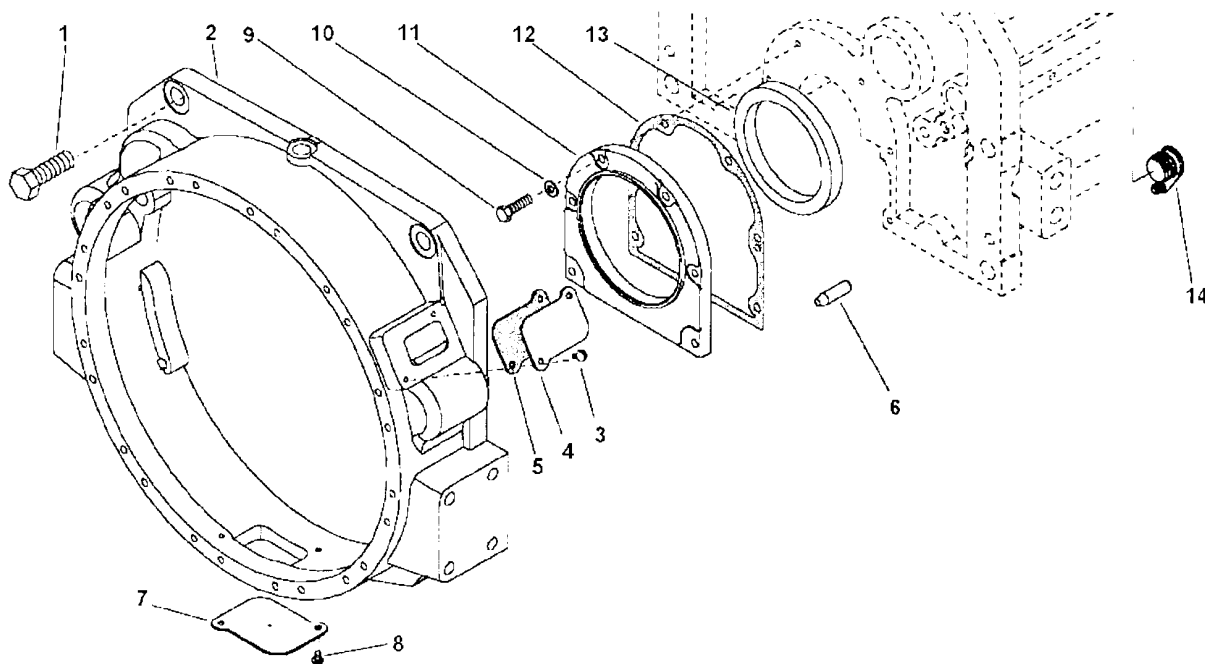
Short Block Assembly



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE526257	1	Short Block Assembly (piston marked RE51629, with auxilliary drive without oil hole, marked R503432)* * Also order R503983 Dipstick Tube/ Oil Fill	- -

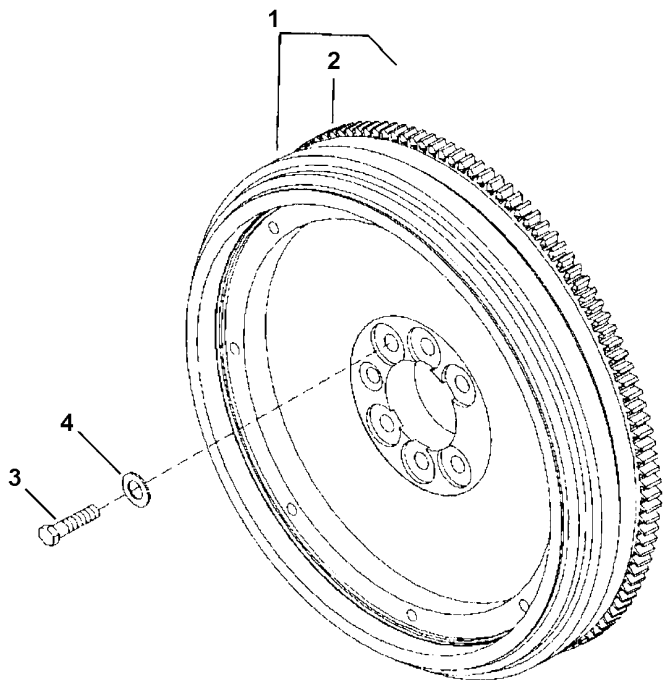
Flywheel Housing SAE #2



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19H1782	6	Capscrew, 3/4" x 2-1/4"	-
2	R121690	1	Flywheel Housing	-
3	21H1318	2	Screw, #12 x 1/2"	-
4	R31493	1	Cover	-
5	R67989	1	Gasket	-
6	H79910	2	Dowel Pin	-
7	R89195	1	Plate	-
8	19H1227	2	Capscrew, 1/4" x 1/2"	-
9	19H2117	6	Capscrew, 5/16" x 1-1/8"	-
10	T27860	6	Washer	-
11	R125027	1	Housing	-
12	R26058	1	Gasket	-
13	RE520036	1	Seal	-
14	R121929	1	Plug	-

Flywheel SAE #11- 1/2

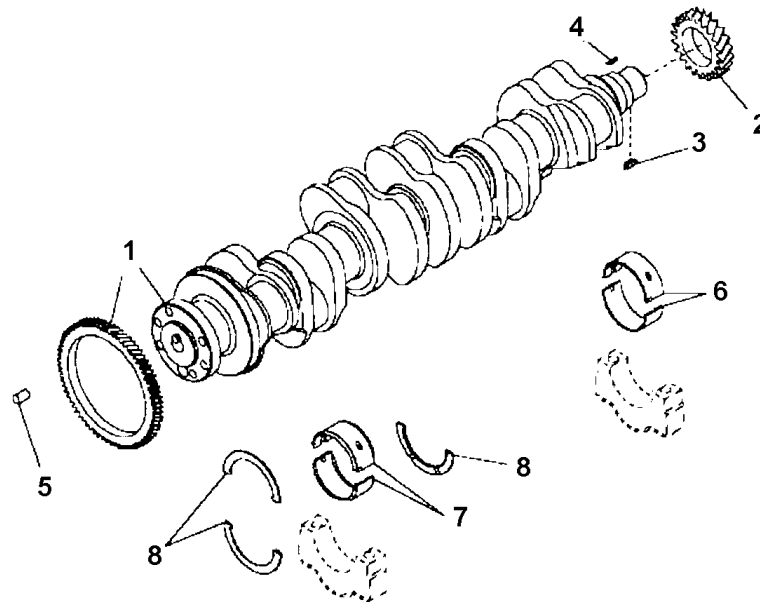


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE61416	1	Flywheel Assembly (marked R124797, includes key #2)	-
2	R28811	1	Ring Gear	-
3	R79850	6	Capscrew, 1/2 x 1- 3/4"	-
4	T23891	6	Washer	-

Crankshaft

L1166 & M175C2

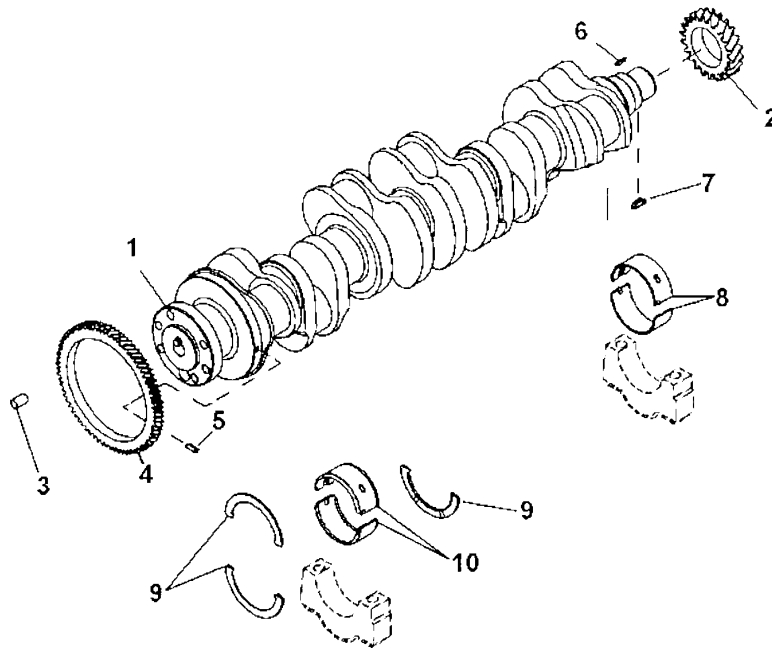


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE505124	1	Crankshaft (marked R120030)	-
2	R104587	1	Gear	-
3	R116311	1	Key	-
4	R120752	1	Key	-
5	R41934	1	Dowel Pin	-
6	RE504195	6	Bearing, Standard	-
	RE504196	6	Bearing, Undersized 0.292 mm (0.011")	-
	RE504197	6	Bearing, Undersized 0.552 mm (0.022")	-
7	RE504198	1	Thrust Bearing, Standard	-
	RE504199	1	Thrust Bearing, Undersized 0.292 mm (0.011")	-
	RE504200	1	Thrust Bearing, Undersized 0.552 mm (0.022")	-
8	R32617	1	Retainer (not shown)	-

Crankshaft

NL1166

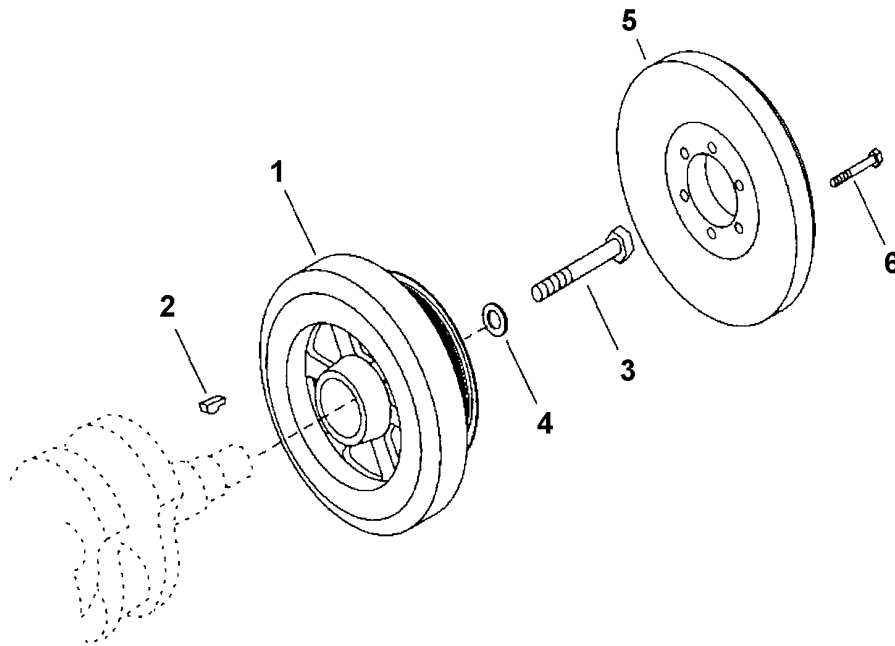


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE530437	1	Crankshaft (marked R523487 or RE530437, includes keys 2- 6)	-
2	R104587	1	Gear	-
3	R41934	1	Dowel Pin	-
4	R519505	1	Gear	-
5	34M7089	1	Dowel Pin	-
6	R120752	1	Key	-
7	R523306	1	Key	-
8	RE504195	**	Bearing, Standard	-
	RE504196	**	Bearing, Oversize 0.292 mm (.011")	-
	RE504197	**	Bearing, Oversize 0.552 mm (.022")	-
9	RE61253	1	Thrust Washer, Standard	-
	RE61851	1	Thrust Washer, Oversize 0.18 mm (.007")	-
10	RE504198	1	Thrust Bearing, Standard	-
	RE504199	1	Thrust Bearing, Oversize 0.292 mm (.011")	-
	RE504200	1	Thrust Bearing, Oversize 0.552 mm (.022")	-
	R32617	1	Retainer	-

Crankshaft Pulley & Damper

L1166

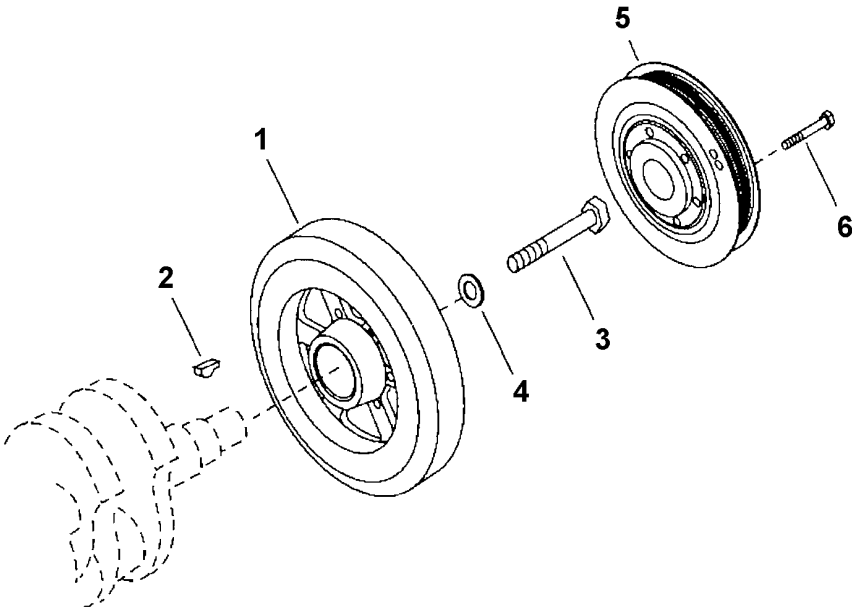


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500934	1	Torsional Damper	-
2	R116311	1	Key	-
3	R79846	1	Capscrew	-
4	R26333	1	Washer	-
5	RE57604	1	Torsional Damper	-
6	19H2676	6	Capscrew, 3/8" x 1"	-

Crankshaft Pulley & Damper

MP150C, M175C2

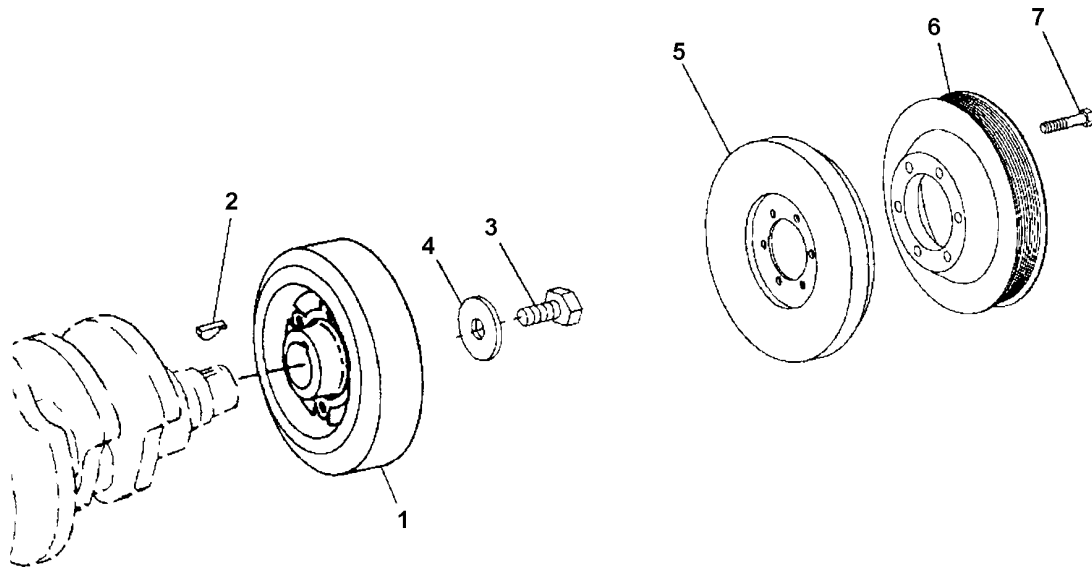


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE57603	1	Torsional Damper	-
2	R116311	1	Key	-
3	R79846	1	Capscrew	-
4	R26333	1	Washer	-
5	R106998	1	Pulley	-
6	19H3219	6	Capscrew, 3/8" x 1- 3/8"	-

Crankshaft Pulley & Damper

NL1166

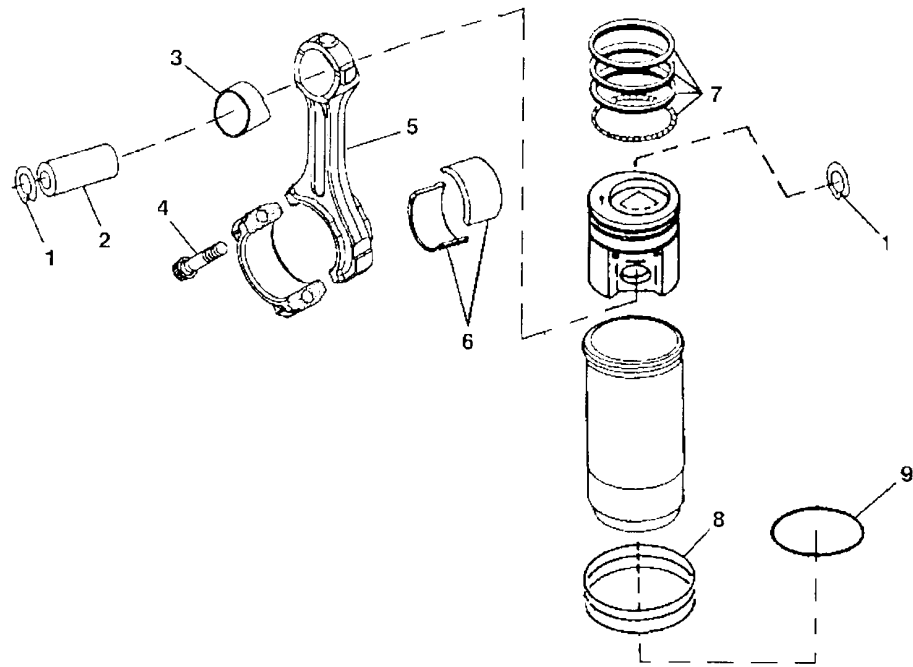


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500917	1	Torsional Damper	-
2	R116311	1	Key	-
3	R79846	1	Capscrew	-
4	R26333	1	Washer	-
5	RE57604	1	Torsional Damper	-
6	R135175	1	Pulley	-
7	19H2633	6	Capscrew	-

Cylinder Liner Assembly & Connecting Rod

L1166, M175C2, & MP150C

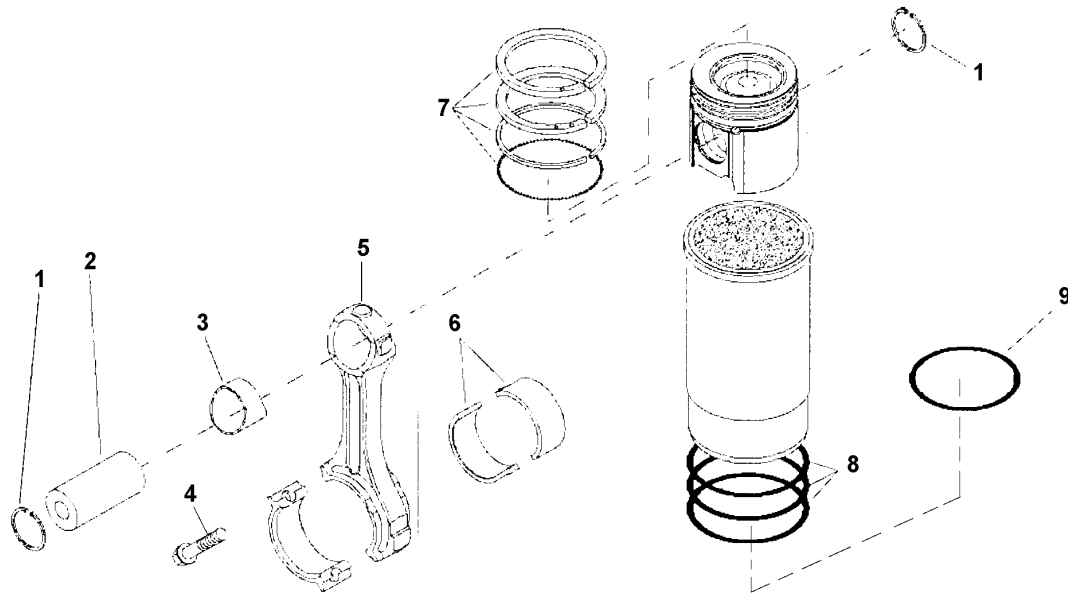


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE508156	6	Piston-Liner Kit (includes keys 7- 8, marked RE516291)	-
1	E1343FN	12	Snap Ring	-
2	R57771	6	Piston Pin	-
3	R74008	6	Bushing	-
4	R501035	12	Capscrew	-
5	RE501513	6	Connecting Rod (including keys 3- 4, marked R501034)	-
6	R116081	6	Bearing, Standard	-
	RE57167	6	Bearing, Undersized 0.292 mm (0.011")	-
7	RE503528	6	Piston Ring	-
8	AR98850	6	O-ring Kit	-
9	R93948	2	Shim 0.05 mm (0.002")	-

Cylinder Liner Assembly & Connecting Rod

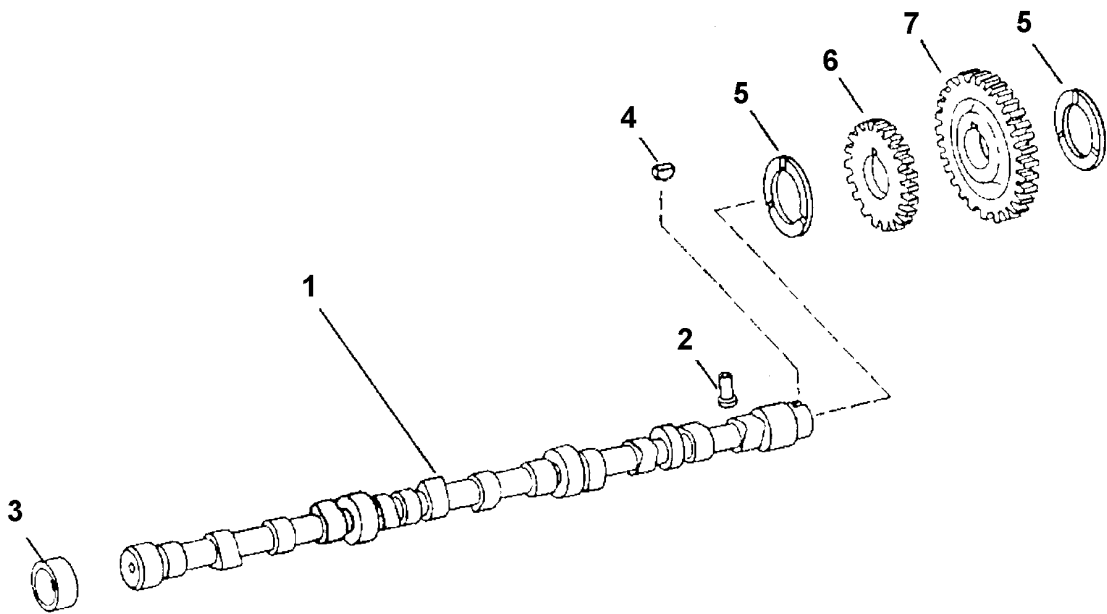
NL1166



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE64509	6	Piston-Liner Kit (includes keys 7- 8, marked RE70688)	-
1	E1343FN	12	Snap Ring	-
2	R57771	6	Piston Pin	-
3	R74008	6	Bushing	-
4	R501035	12	Capscrew	-
5	RE501513	6	Connecting Rod (including keys 3- 4, marked R501034)	up to - 260554
	RE522977	6	Connecting Rod (including keys 3-4, marked R519583)	from 260555 -
6	R116081	12	Bearing, Standard	-
	RE57167	**	Bearing, Undersized 0.292 mm (0.011")	-
7	RE503528	6	Piston Ring	-
8	AR98850	6	O-ring Kit	-
9	R93948	2	Shim 0.05 mm (0.002")	-
			**As required	

Camshaft

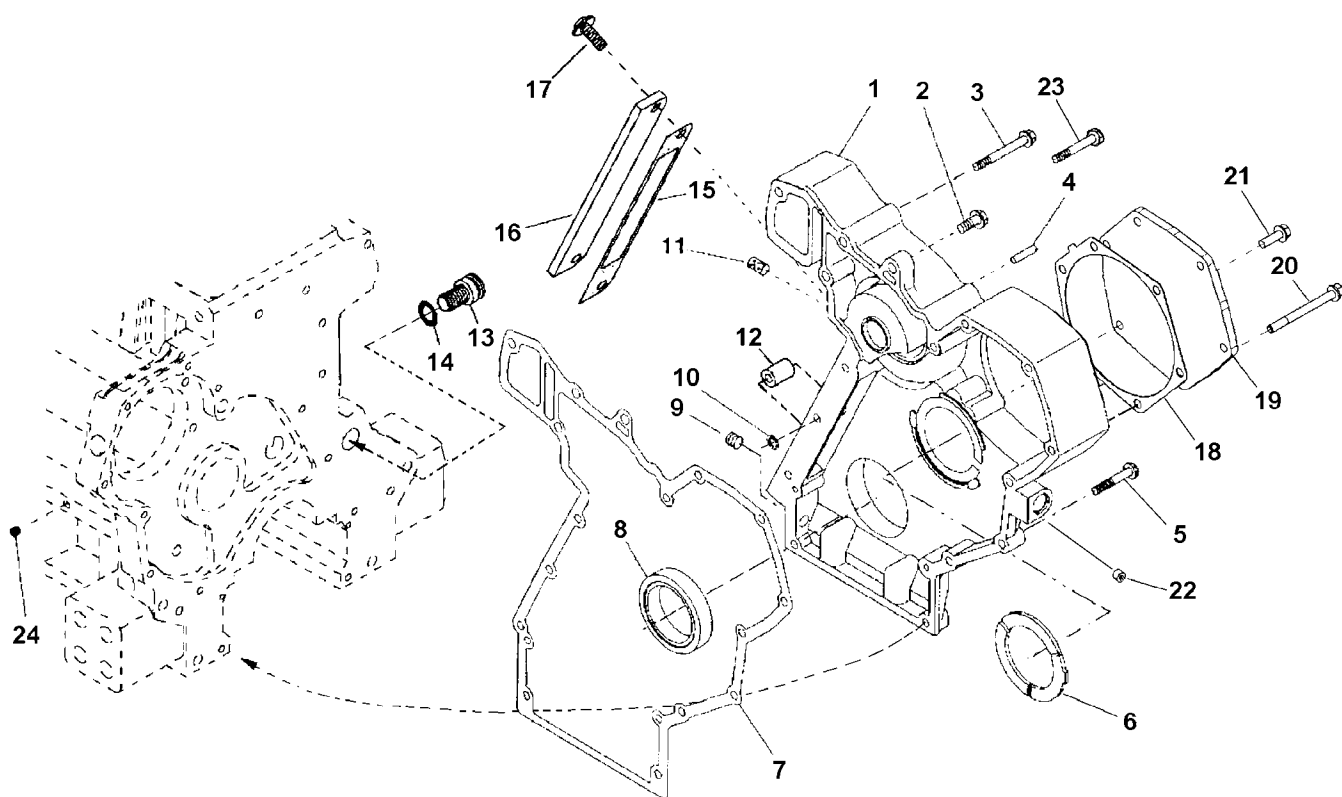


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE57054	1	Camshaft (marked R120872, includes key #2)	-
2	R110126	12	Follower	-
3	R87561	4	Bushing	-
4	26H91	1	Shaft Key, 3/16" x 1- 1/4"	-
5	R504811	2	Washer	-
6	R104589	1	Gear	-
7	R112053	1	Gear	-

Timing Gear

L1166A, M175C2, and MP150C



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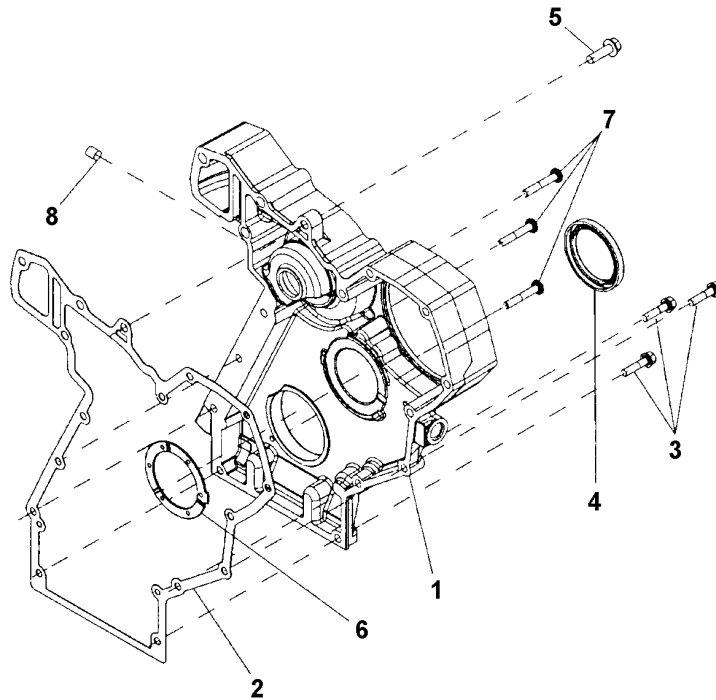
Timing Gear

L1166A, M175C2, and MP150C

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R502082	1	Cover	-
2	19G3693	1	Screw, 3/8" x 1- 1/4"	-
	RE517059	1	Washer	-
3	R104859	3	Screw, Right Hand	-
4	R11086	2	Dowel Pin	-
5	R115129	3	Capscrew, Left Hand	-
6	R504811	1	Washer	-
7	R119384	1	Gasket	-
8	AR49025	1	Seal	-
	R32617	1	Retainer	-
9	15H666	1	Pipe Plug, 3/8"	-
10	R116022	1	Seal	-
11	R98527	1	Filter	-
12	R119278	1	Spacer	-
13	R128670	1	Capscrew	-
14	B2762R	1	O-ring	-
15	R501023	1	Gasket	-
16	R122720	1	Cover	-
17	19H3483	2	Capscrew, 3/8" x 1-1/8"	-
18	R502011	1	Gasket	-
19	R502989	1	Cover	-
20	R104861	4	Screw	-
21	19H3467	1	Screw, 5/16" x 1"	-
22	RE71255	1	Pipe Plug	-
23	R115129	1	Capscrew	-
24	RE71255	1	Pipe Plug	-

Timing Gear Cover

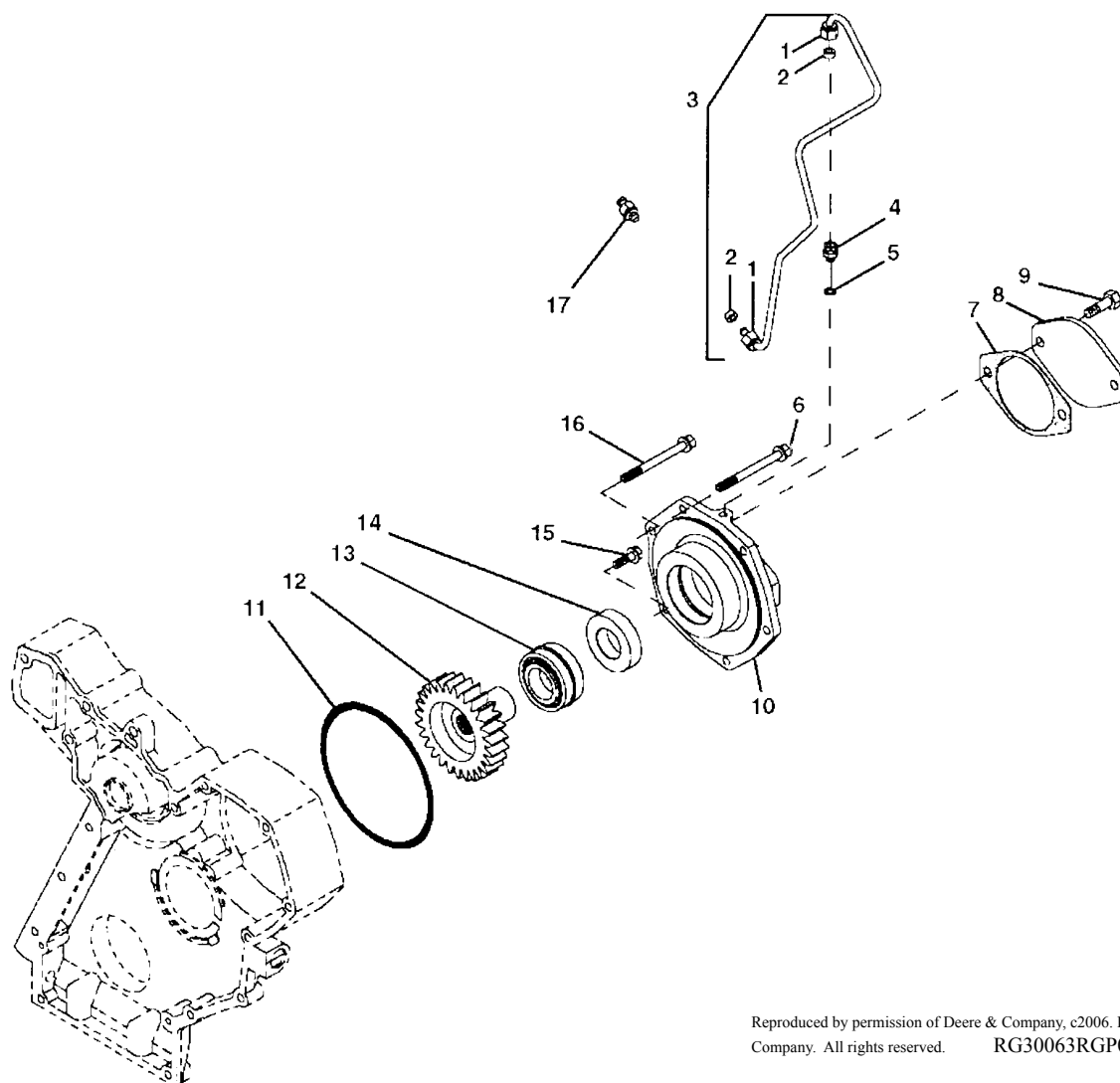
NL1166



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R502083	1	Cover	-
2	R119384	1	Gasket	-
3	R104859	3	Screw, 5/16" x 1- 3/8"	-
4	AR49025	1	Seal	-
5	19H3693	1	Screw, 3/8" x 1- 1/4"	-
6	R504811	1	Washer	-
7	R115129	3	Capscrew, 5/16" x 1.9"	-
8	R98527	1	Filter	-

Auxiliary Drive Assembly

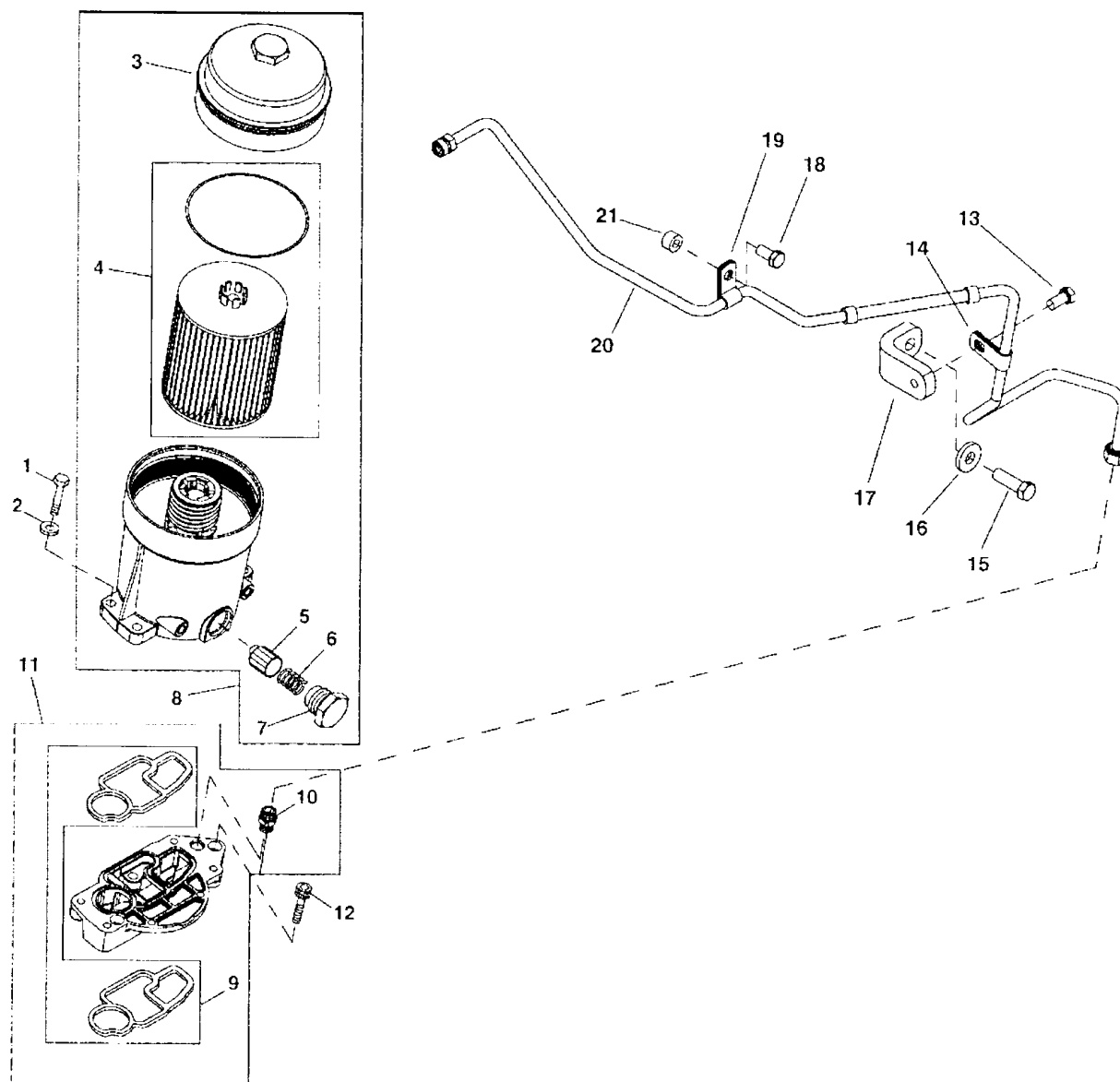


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R51936	2	Sealing Washer	-
2	R51937	2	Tube Nut	-
3	RE520545	1	Oil Line	-
4	R119653	1	Adapter	-
5	R48693	1	Washer	-
6	12-00241	1	Capscrew, 5/16- 18 x 3- 3/4"	-
7	R96935	1	Gasket	-
8	R85145	**	Cover	-
9	19H2284	**	Capscrew, 3/8" x 7/8"	-
10	R502908	1	Housing	-
11	T80123	1	O-ring	-
12	R112200	1	Gear	-
13	RE22514	1	Bearing	-
14	R112203	1	Bushing	-
15	12-00212	1	Screw, 5/16- 18 x 1"	-
16	R104861	4	Screw	-
17	RE502650	1	Fitting	-
**As required				

Oil Filter Assembly

L1166 & M175C2



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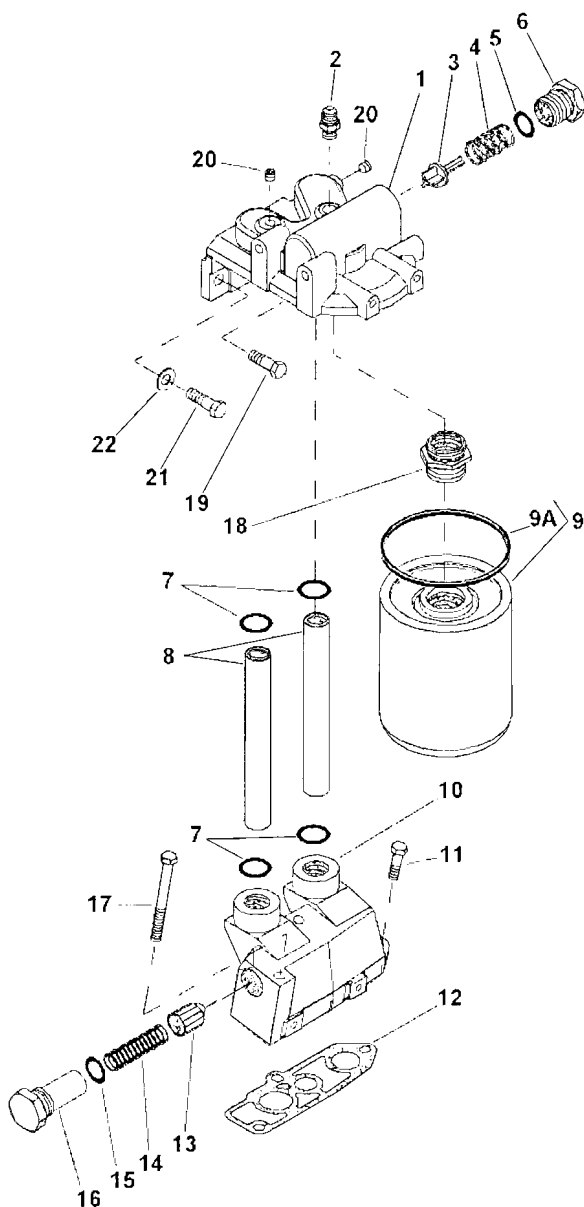
Oil Filter Assembly

L1166 & M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19H2633	4	Capscrew, 3/8" x 1- 1/2"	-
2	24H1682	4	Washer	-
3	RE515398	1	Cap	-
4	RE509672	1	Filter Element	-
5	R504628	1	Pressure Relief Valve	-
6	R517482	1	Compression Spring	-
7	RE519728	1	Fitting Plug	-
8	RE505743	1	Oil Filter	-
9	RE516171	1	Seal Kit	-
10	RE58294	1	Adapter	-
11	RE506171	1	Adapter	-
12	19H2922	3	Screw, 3/8" x 1- 1/4"	-
13	19H1936	1	Capscrew, 3/8" x 3/4"	-
14	T28862	1	Clamp	-
15	19H2731	1	Capscrew, 7/16" x 1- 3/8"	-
16	24H1886	1	Washer	-
17	R504765	1	Bracket	-
18	19H3693	1	Screw, 3/8" x 1- 1/4"	-
19	T13814	1	Clamp	-
20	RE522540	1	Tube Assembly, Turbo Oil Supply	-
21	R127156	1	Spacer	-

Oil Filter Assembly

NL1166H



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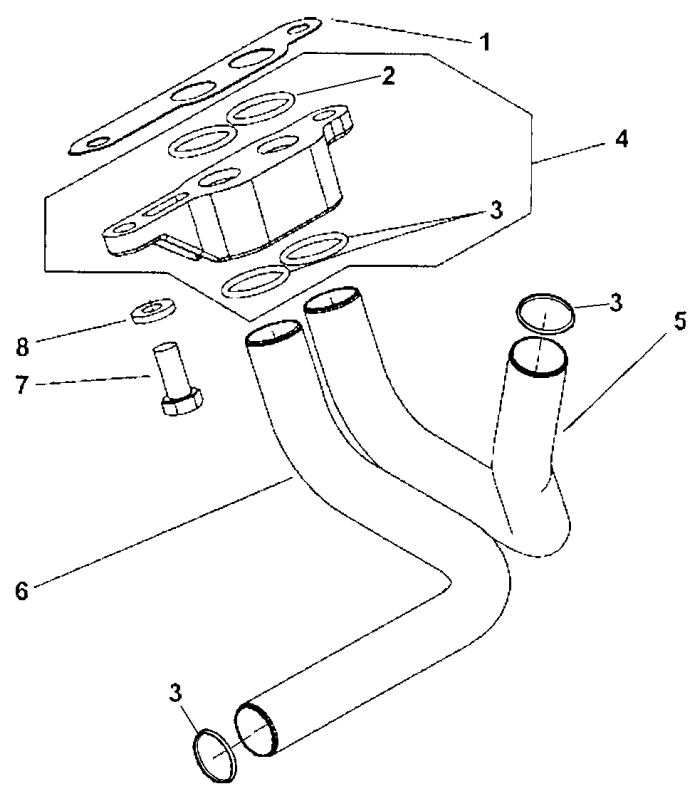
Oil Filter Assembly

NL1166H

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R128694	1	Base	-
2	R57561	1	Adapter Fitting	-
3	R500055	1	Valve	-
4	R98064	1	Spring	-
5	U17409	1	O-ring	-
6	R117073	1	Fitting Plug	-
7	R47153	4	O-ring	-
8	R86063	2	Tube	-
9	RE57394	1	Oil Filter (includes key #9a)	-
9A	R43660	1	Packing	-
10	R129820	1	Housing	-
11	19H3239	1	Capscrew, 3/8" x 1-1/4"	-
12	R119847	1	Gasket	-
13	R124186	1	Pressure Relief Valve	-
14	R500330	1	Spring	-
15	U17409	1	O-ring	-
16	R129821	1	Fitting Plug	-
17	19H3445	2	Capscrew, 3/8" x 3-3/4"	-
18	R104621	1	Adapter Fitting	-
19	19H3104	1	Capscrew, 7/16" x 1-1/4"	-
20	RE71255	2	Pipe Plug	-
21	19H3205	1	Capscrew, 7/16" x 1-1/2"	-
22	24H1325	1	Washer	-

Oil Pump

L1166 - M175C2 - MP150C

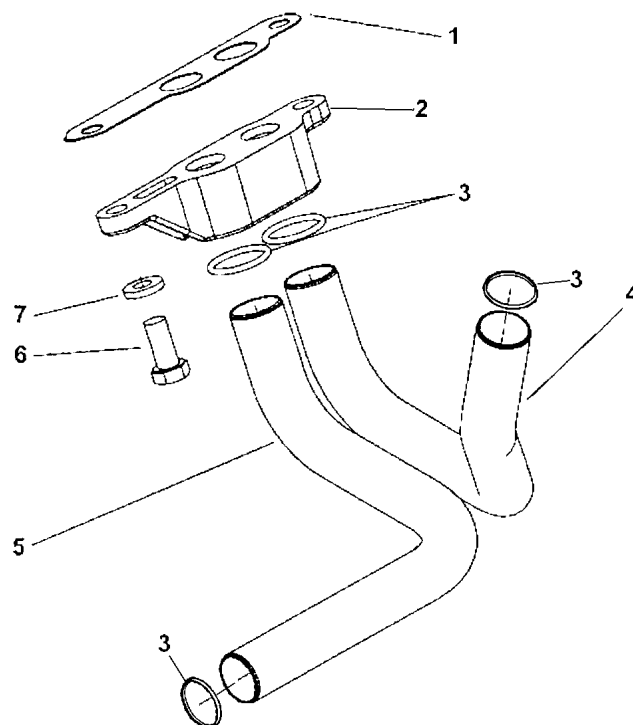


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R109625	1	Gasket	-
2	R504669	2	Seal	-
3	R71732	4	O-ring	-
4	RE509383	1	Adapter	-
5	R126337	1	Oil Tube	-
6	R116718	1	Oil Tube	-
7	R40236	2	Capscrew, 7/16" x 1.120"	-
8	24M7346	2	Washer	-

Oil Pump & Cooler Connection

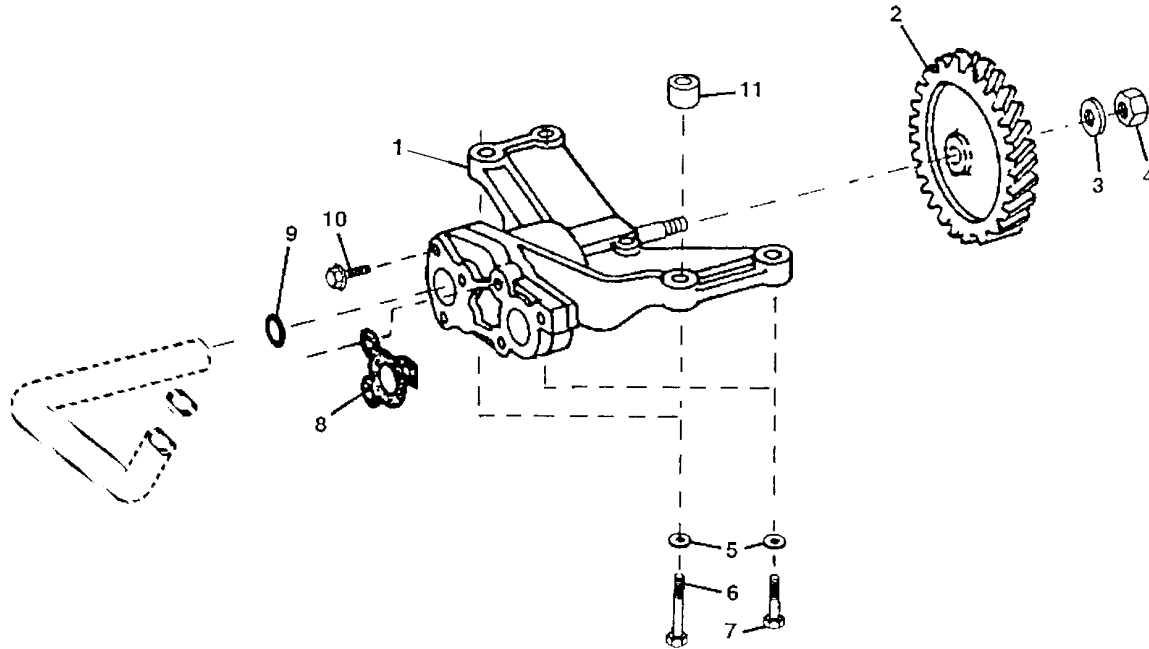
NL1166H



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R109625	1	Gasket	-
2	R116233	1	Adapter	-
3	R71732	4	O-ring	-
4	R126337	1	Oil Tube	-
5	R116718	1	Oil Tube	-
6	R40236	2	Capscrew, 7/16" x 1.120"	-
7	24H1302	2	Washer	-

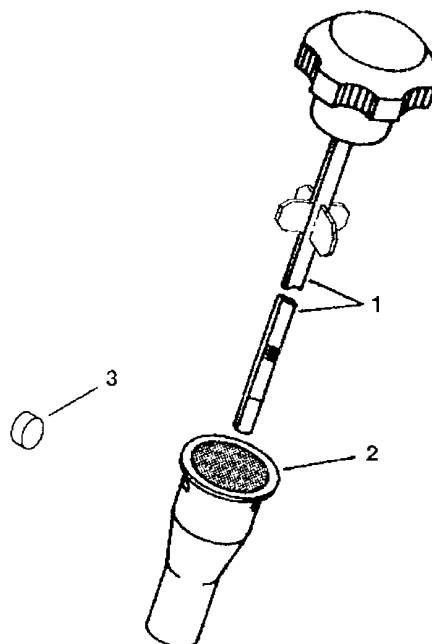
Oil Pump



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	SE500877	1	Oil Pump (remanufactured, includes keys 3, 4, 8- 10)	-
2	R502773	1	Gear	-
3	T21242	1	Washer	-
4	14H826	1	Nut, 1/2"	-
5	R57696	4	Washer	-
6	19H3759	2	Capscrew, 3/8" x 1- 7/8"	-
7	19H3219	2	Capscrew, 3/8" x 1- 3/8"	-
8	R100569	1	Gasket	-
9	R71732	1	O-ring	-
10	R104628	5	Screw	-
	24H1682	6	Washer	-
11	R500642	2	Bushing	-

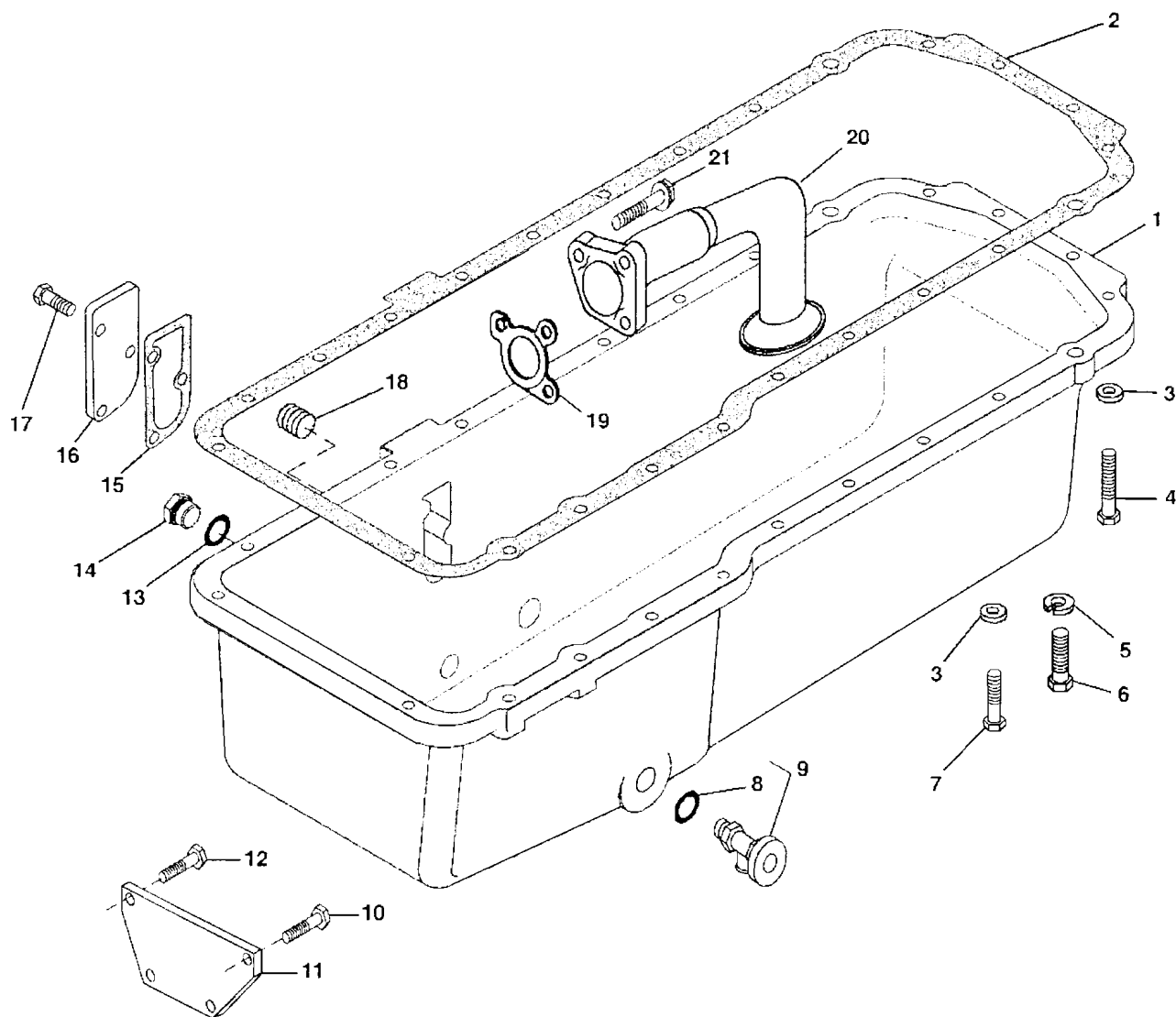
Dipstick



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500218	1	Dipstick, 388 mm (15.3") L1166 & M175C2 (Right or left)	-
	RE500221	1	Dipstick, 357.5 mm (14") NL1166	-
2	R503983	1	Dipstick Tube, Right hand L1166 & M175C2	-
	R120801	1	Dipstick Tube, Right hand NL1166	-
	R121765	1	Dipstick Tube, Left hand M175C2	-
	T35390	1	Plug	-

Oil Pan



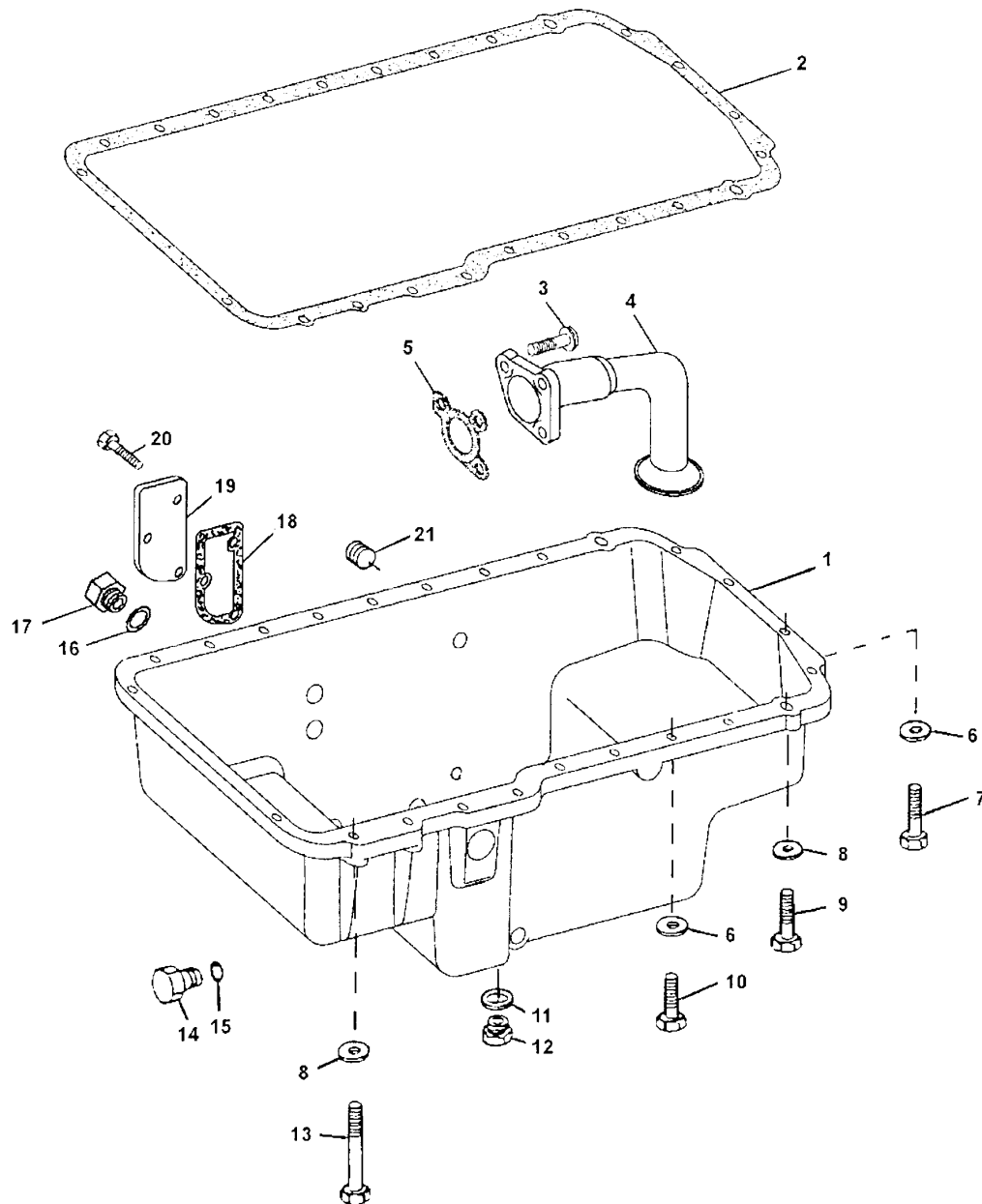
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Oil Pan

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE506166	1	Oil Pan	-
2	RE504822	1	Gasket	-
3	24M7239	22	Washer	-
4	19H3485	4	Capscrew, 3/8" x 2"	-
5	R135895	2	Washer	-
6	19H2473	2	Capscrew, 1/2" x 1- 3/4"	-
7	19H1651	18	Capscrew, 3/8" x 1- 1/2"	-
8	R47151	1	O-ring	-
9	RE56275	1	Shut-off Valve	-
10	19H2021	2	Capscrew, 3/8" x 5/8"	-
11	R56619	1	Cover	-
12	19H3530	2	Capscrew, 1/2" x 7/8"	-
13	R47151	1	O-ring	-
14	R27474	1	Drain Plug	-
15	RE63439	1	Gasket	-
16	R127873	1	Cover	-
17	19H1731	3	Capscrew, 3/8" x 1"	-
18	15H690	1	Pipe Plug, 3/4"	-
19	R100569	1	Gasket	-
20	RE520585	1	Oil Pump Intake	-
21	R104628	3	Screw, 3/8" x 2- 1/4"	-

Oil Pan

NL1166



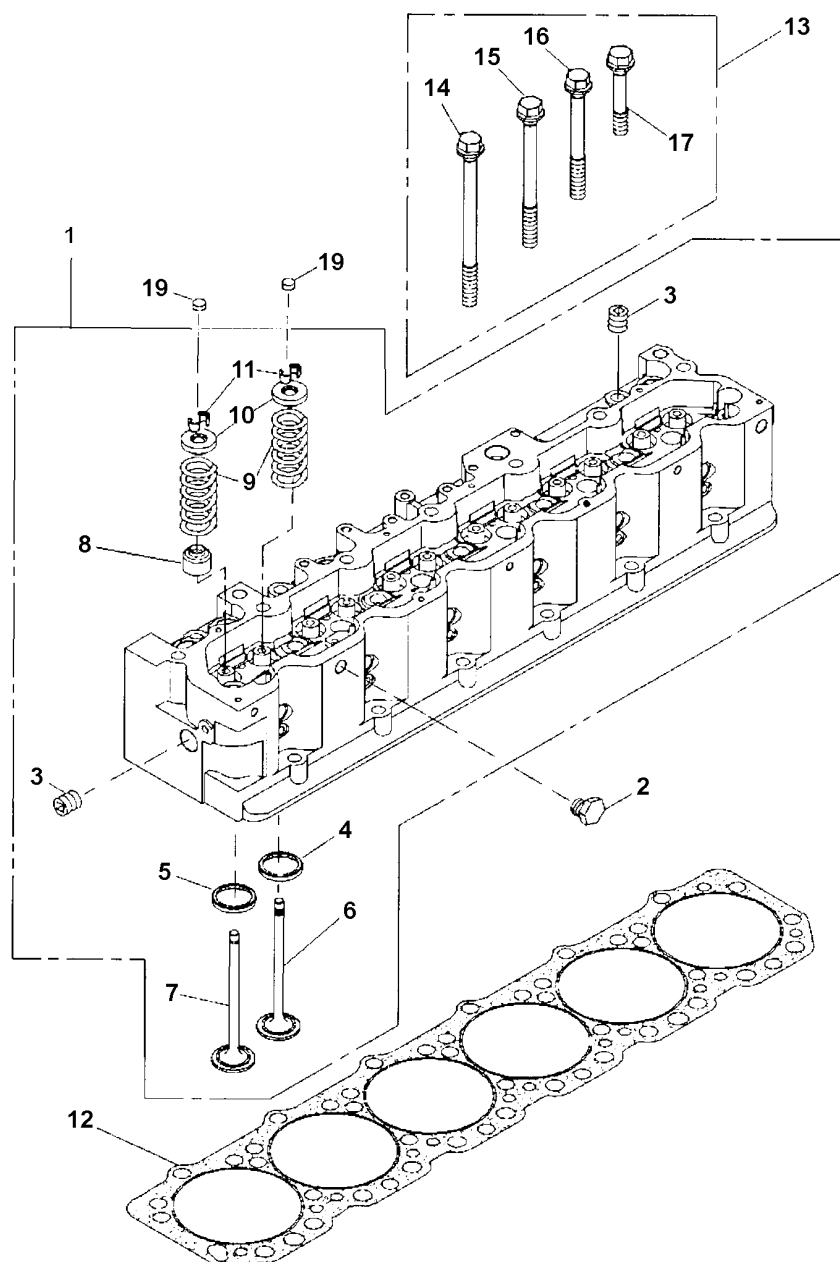
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Oil Pan

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE508040	1	Oil Pan	-
2	R521228	1	Gasket	-
3	R104628	3	Screw	-
4	RE62144	1	Oil Pump Intake	-
5	R100569	1	Gasket	-
6	M72490	22	Washer	-
7	19H3485	2	Capscrew 3/8" x 2"	-
8	R135895	2	Washer	-
9	19H2473	2	Capscrew	-
10	19H2633	18	Capscrew, 3/8" x 1- 1/2"	-
11	A4827R	1	Washer	-
12	R27175	1	Drain Plug	-
13	19H3485	2	Capscrew	-
14	R27474	1	Drain Plug	-
15	R47151	1	O-ring	-
16	F3171R	2	O-ring	-
17	R27175	2	Drain Plug	-
18	RE63439	1	Gasket	-
19	R127873	1	Cover	-
20	19H1731	3	Capscrew	-
21	15H690	2	Pipe Plug	-

Cylinder Head



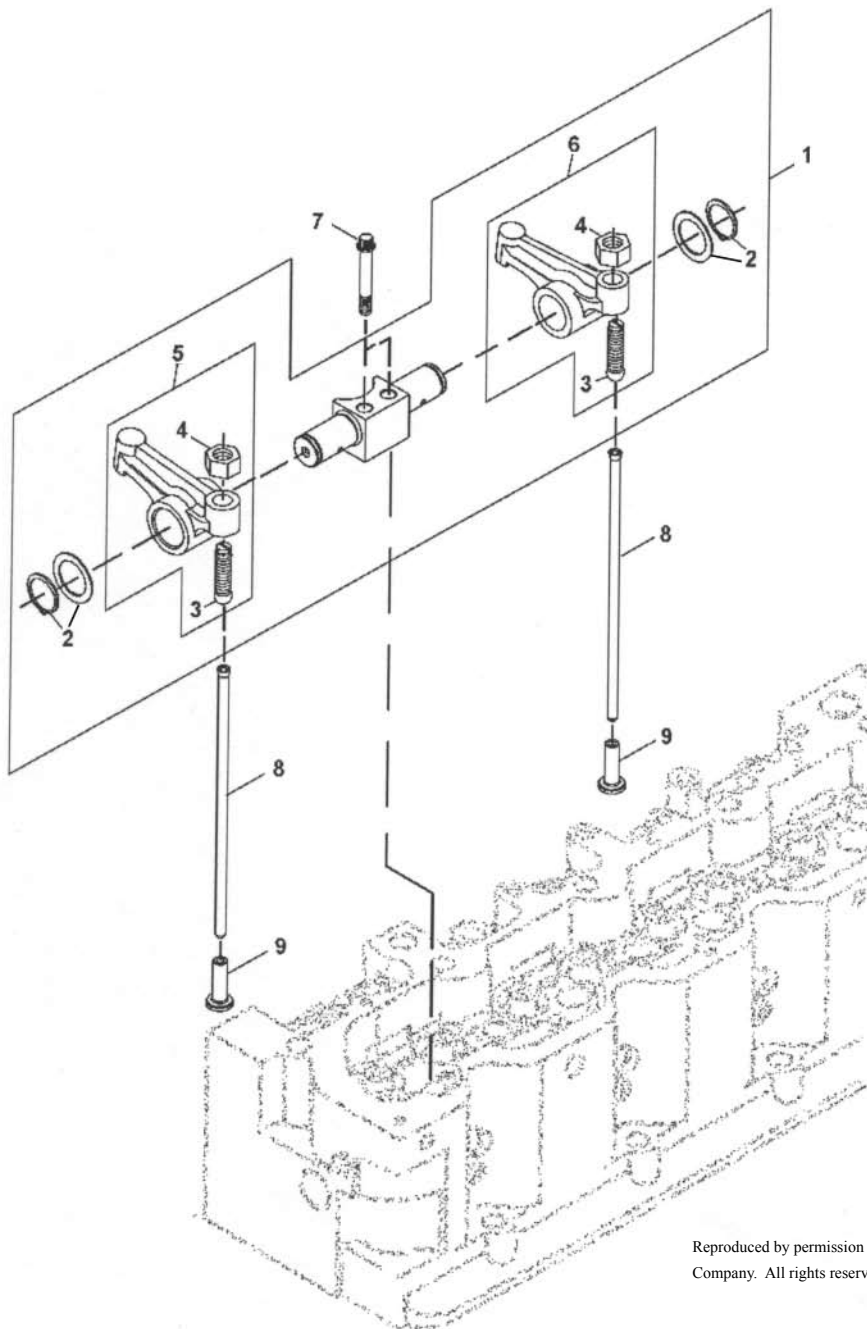
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Cylinder Head

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE519894	1	Cylinder Head (marked R517486, includes keys #3-11)	-
2	19H2367	1	Capscrew	-
3	15H690	11	Pipe Plug, 3/4"	-
4	R121193	6	Intake Valve Seat Insert	-
5	R119132	6	Exhaust Valve Seat Insert	-
6	R84618	6	Intake Valve, Standard	-
	R93308	**	Intake Valve, Oversized 0.08 mm (.003")	-
	R93312	**	Intake Valve, Oversized 0.38 mm (.015")	-
	R93314	**	Intake Valve, Oversized 0.76 mm (.030")	-
	R93350	6	Valve Seat Insert, Oversized 0.25 mm (.010")	-
7	R84619	6	Exhaust Valve, Standard	-
	R93311	**	Exhaust Valve, Oversized 0.08 mm (.003")	-
	R93313	**	Exhaust Valve, Oversized 0.38 mm (.015")	-
	R93315	**	Exhaust Valve, Oversized 0.76 mm (.030")	-
	R93349	6	Valve Seat Insert, Oversized 0.25 mm (.010")	-
8	R501640	6	Valve Stem Seal	-
9	R502187	12	Spring	-
10	R500098	12	Retainer	-
11	T20077	24	Keeper	-
12	RE55475	1	Head Gasket	-
13	RE506501	1	Head Bolt Kit (includes keys #14-17)	-
14	R121491	7	Head Bolt, 9/16" x 8"	-
15	R121490	8	Head Bolt, 9/16" x 6.9"	-
16	R502911	6	Head Bolt, 9/16" x 4.8"	-
17	R502912	5	Head Bolt, 9/16" x 6.4"	-
19	T20129	12	Cap	-

**As required

Rocker Arm & Push Rods

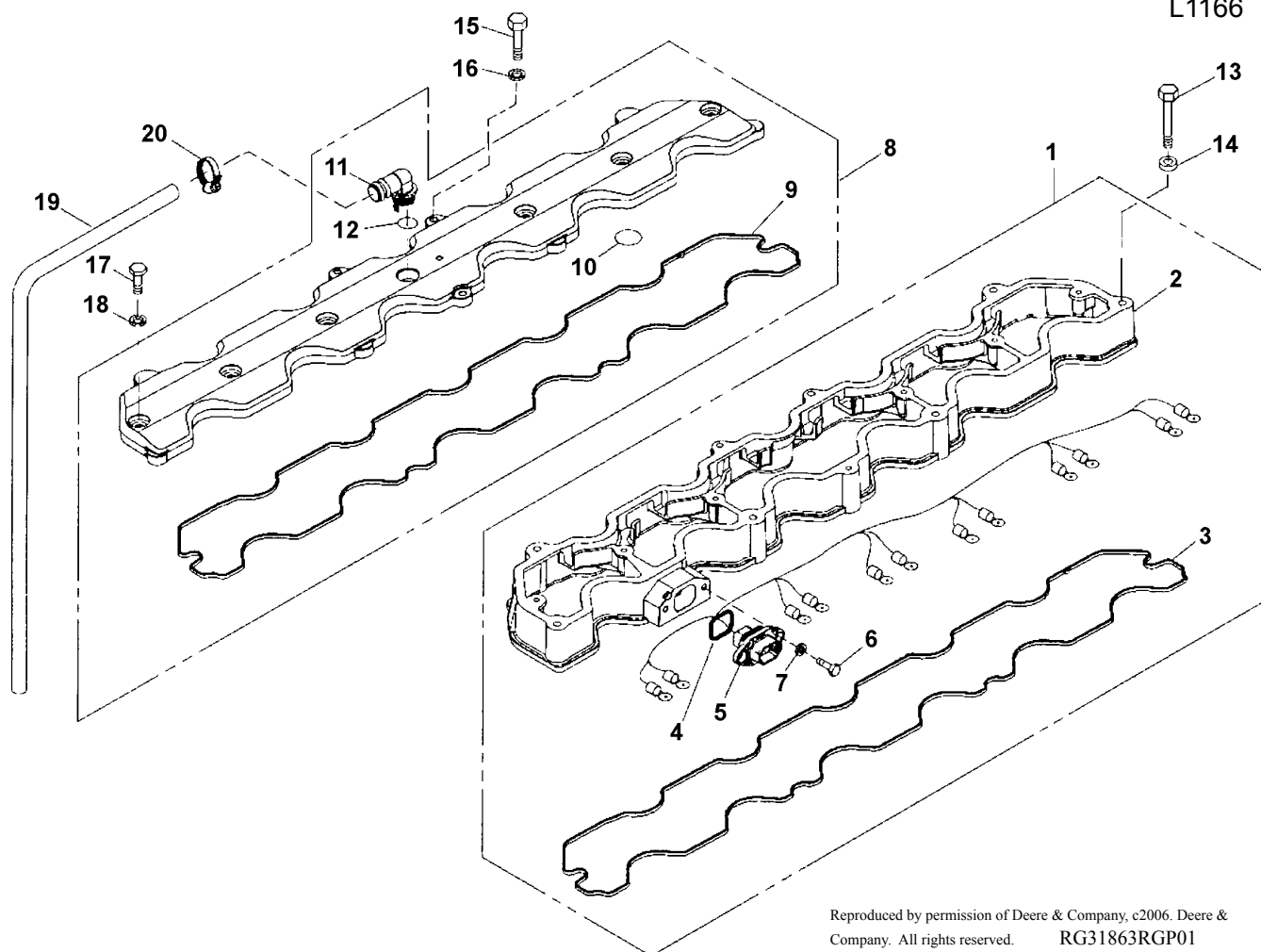


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE521278	6	Rocker Arm Assembly (includes keys 2-6)	-
2			Snap Ring and Washer*	-
3	R27443	2	Set Screw	-
4	14H1080	2	Nut, 3/8"	-
5	RE24046	6	Rocker Arm, Left hand	-
6	RE24045	6	Rocker Arm, Right hand	-
7	19H3833	12	Screw	-
8	R85027	12	Push Rod	-
9	R110126	12	Follower	-
*Not available separately				

Rocker Arm Cover

L1166



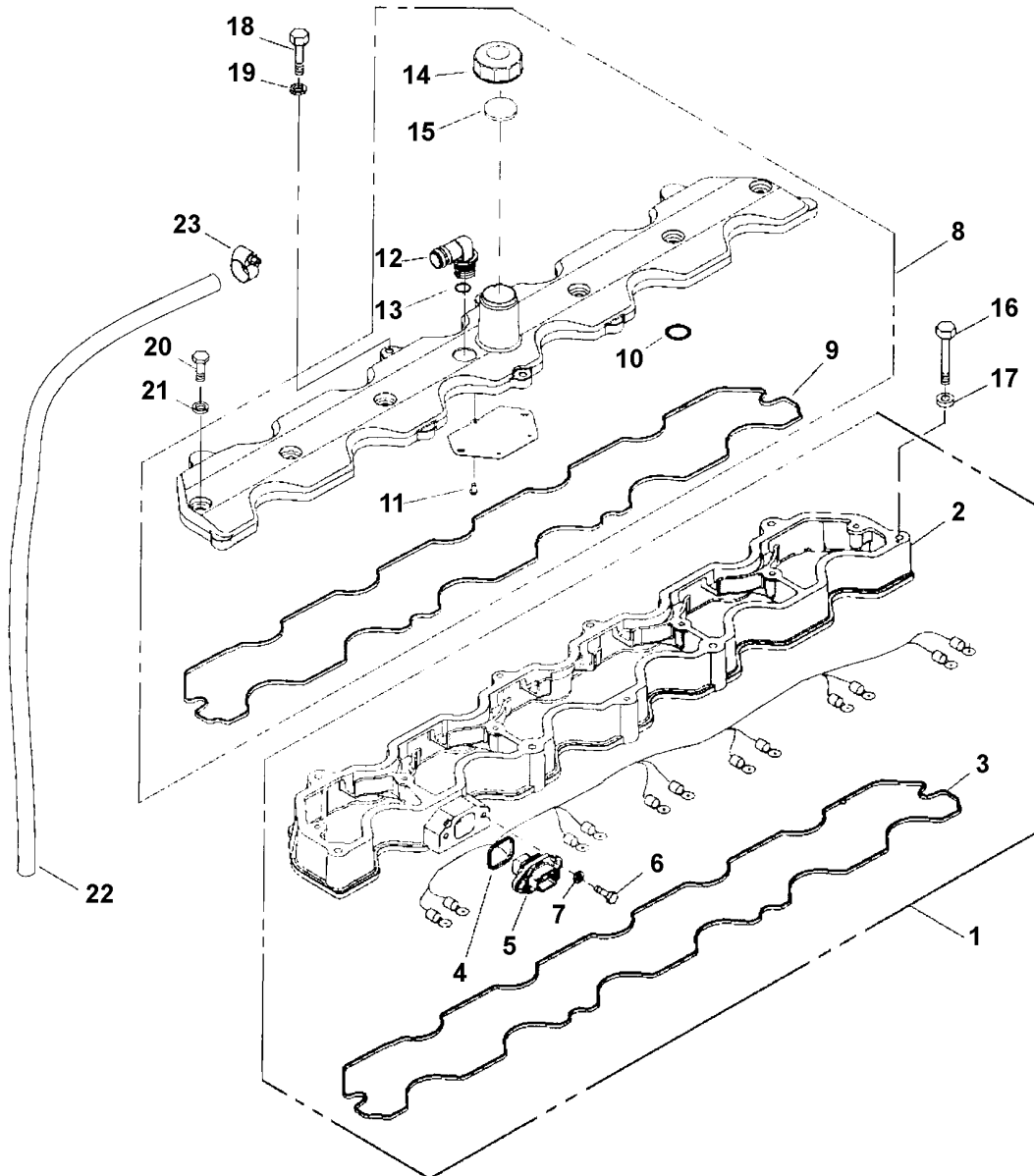
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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE509265	1	Housing (includes keys 2-7)	-
2	R502695	1	Housing	-
3	R502719	1	Seal	-
4	R520373	1	Seal	-
5	RE509048	1	Wiring Harness	-
	R134920	12	Nut	-
6	19H2036	2	Capscrew	-
7	24H1287	2	Washer	-
8	RE505094	1	Valve Cover (includes keys 9-12)	-
9	R502598	1	Gasket	-
10	R504093	4	Seal	-
11	R120467	1	Elbow Fitting (includes key #12)	-
12	R72328	1	O-ring	-
13	19H2334	6	Capscrew	-
14	24H1286	6	Washer	-
15	19H2151	2	Capscrew	-
16	24H1286	2	Washer	-
17	19H1914	6	Capscrew	-
18	24H1286	6	Washer	-
19	41-00004	**	Hose, 3/4" I.D. (sold per inch)	-
20	19-	1	Hose Clamp	-

**As required

Rocker Arm Cover

MP150C - M175C2 - NL1166



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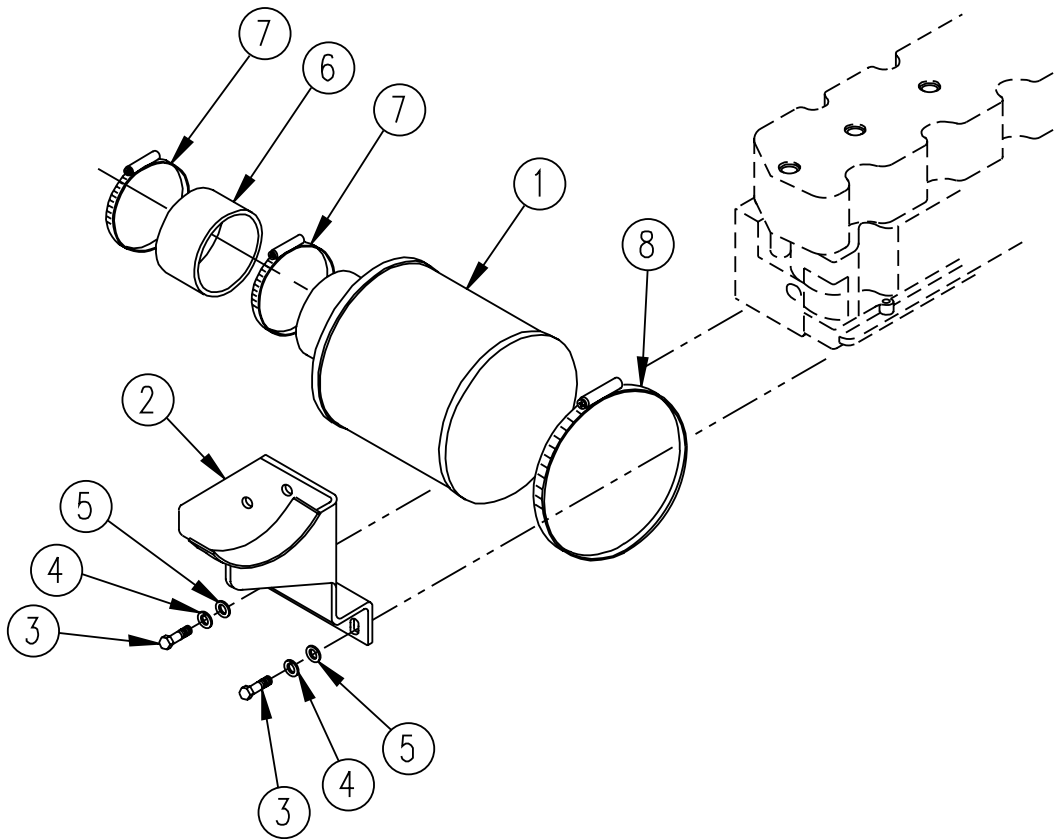
Rocker Arm Cover

MP150C - M175C2 - NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE509265	1	Housing	-
2	R502695	1	Housing	-
3	R502719	1	Seal	-
4	R520373	1	Seal	-
5	RE509048	1	Wiring Harness	-
6	19H2036	2	Capscrew, 1/4" x 7/8"	-
7	24H1287	2	Washer	-
8	RE505095	1	Valve Cover	-
9	R502598	1	Gasket	-
10	R504093	4	Seal	-
11	37H26	5	Screw, 0.116" x 1/4"	-
12	R120467	1	Elbow Fitting (contains Part # R72328)	-
13	R72328	1	O-ring	-
14	T20294	1	Cap	-
15	T20328	1	Gasket	-
16	19H2334	6	Capscrew, 1/4" x 2- 1/2"	-
17	24H1286	6	Washer	-
18	19H2151	2	Capscrew	-
19	24H1286	2	Washer	-
20	19H1914	6	Capscrew, 1/4" x 1"	-
21	24H1286	6	Washer	-
22	41-00004	**	Hose, 3/4" I.D. (sold per inch)	-
23	19-00004	1	Hose Clamp #4	-
**As required				

Air Filter & Mounting

M175C2

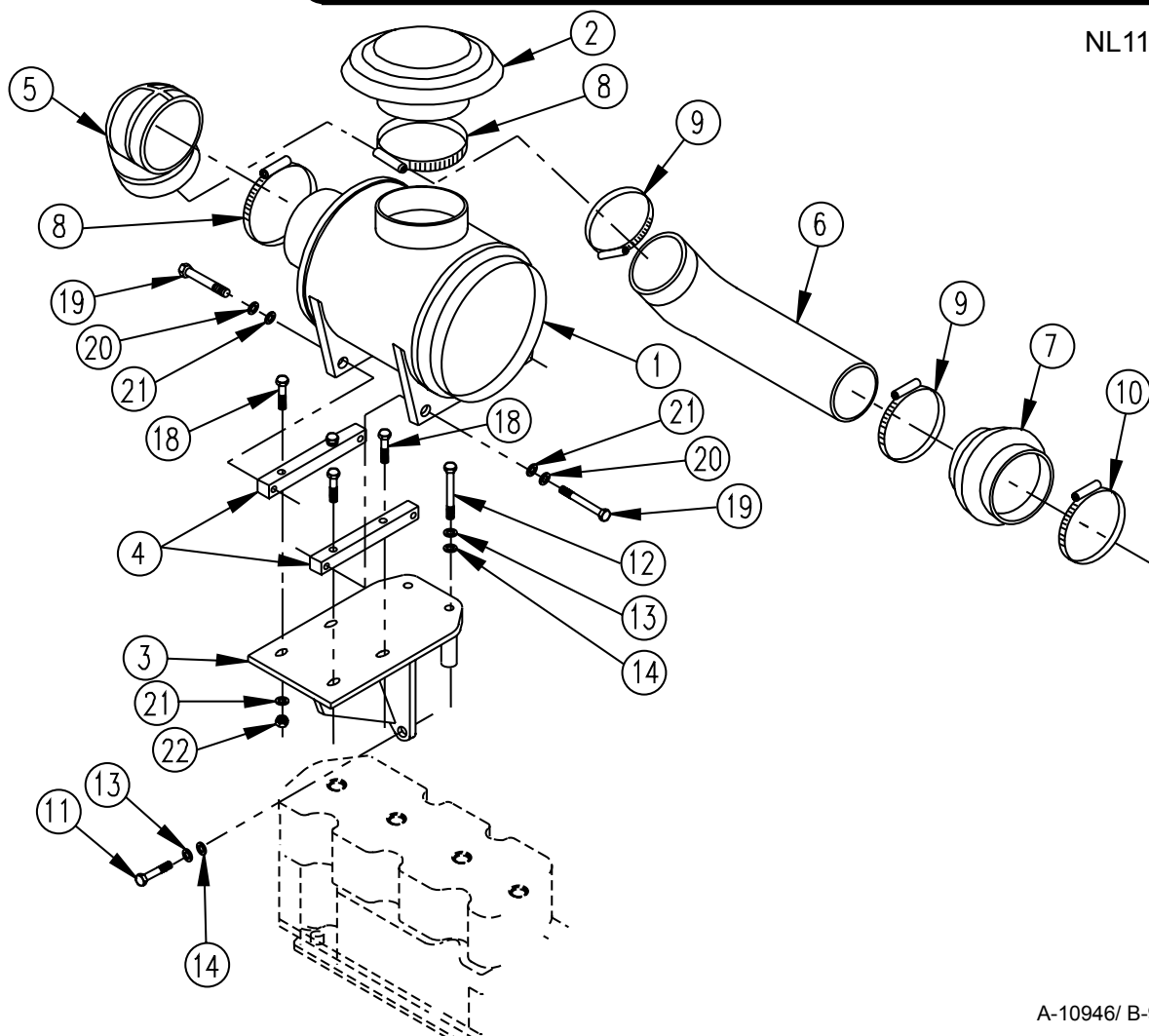


A-10591/ B-9101

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-21000	1	Air Filter	-
2	23-22503	1	Bracket	-
3	12-01213	2	Capscrew, Hex Head 3/4- 10 x 1- 1/4"	-
4	15-01202	2	Lock Washer, Helical 3/4"	-
5	15-01211	2	Flat Washer, 3/4" USS	-
6	R501467	1	Hose, 4" I.D. x 2- 3/8"	-
7	19-00072	2	Hose Clamp #72	-
8	19-00128	1	Hose Clamp #128	-

Air Filter & Mounting

NL1166H

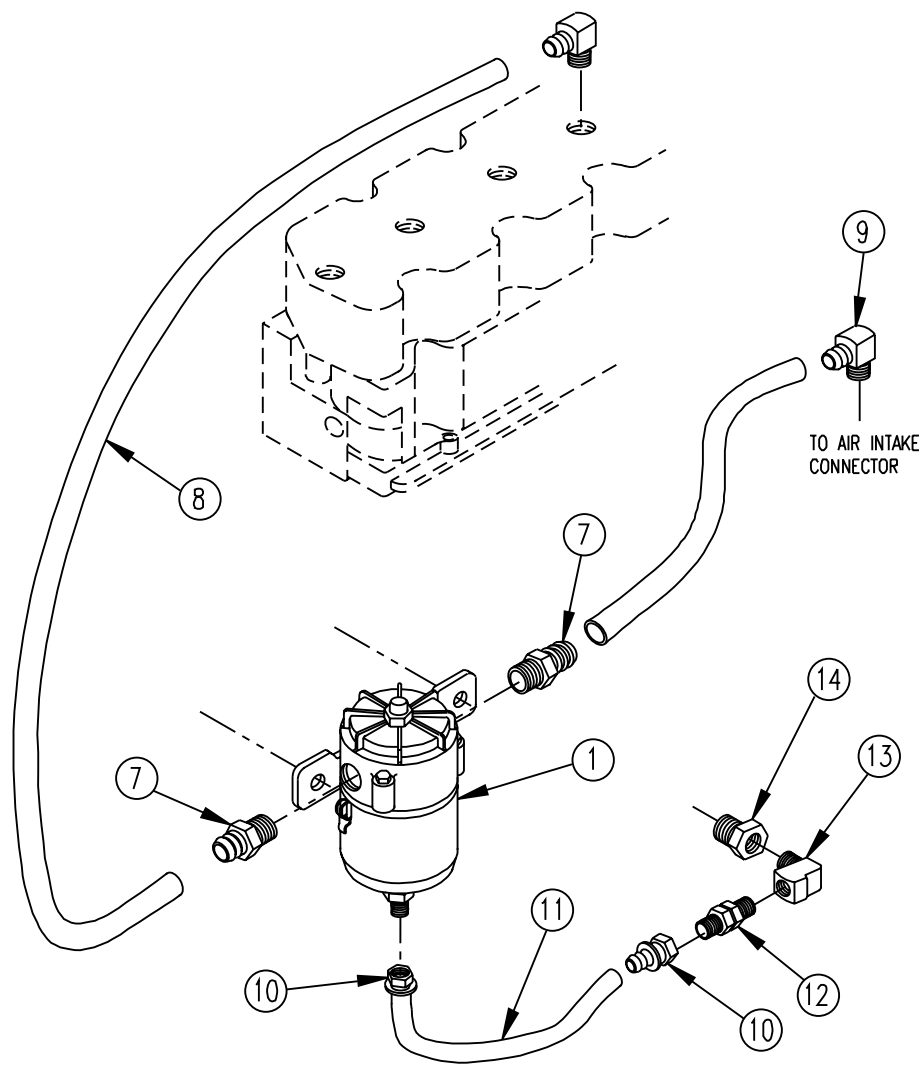


A-10946/ B-9175

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-22509	1	Air Filter Assembly (includes keys 23- 24)	-
2	24-22511	1	Inlet Hood	-
3	23-22506	1	Bracket, Air Filter Mtg.	-
4	23-22508	2	Bracket, Air Filter Retainer	-
5	18-22502	1	Elbow, Inlet Reducing 90° 7" I.D.	-
6	R106855	1	Tube, Air Inlet 90° 5" O.D.	-
7	18-22503	1	Hump Hose 5" I.D. x 4" I.D.	-
8	19-00128	2	Hose Clamp #128	-
9	19-00088	2	Hose Clamp #88	-
10	19-00072	1	Hose Clamp #72	-
11	12-00312	2	Capscrew, Hex Head 3/8- 16 x 1"	-
12	12-00363	2	Capscrew, Hex Head 3/8- 16 x 6- 1/2" Grade 8	-
13	15-00302	4	Lock Washer, Helical 3/8"	-
14	15-00321	4	Flat Washer 3/8" SAE	-
18	12-00813	4	Capscrew, Hex Head M10 x 1.5 x 45 mm	-
19	12-00814	4	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
20	15-00802	4	Lock Washer, Helical M10	-
21	15-00805	8	Flat Washer, M10	-
22	14-00812	4	Hex Nut, Nylock M10 x 1.5	-
23	24-22512	1	Air Filter, Outer (not shown)	-
24	24-22513	1	Air Filter, Inner (not shown)	-

Crankcase Breather Filter

L1166

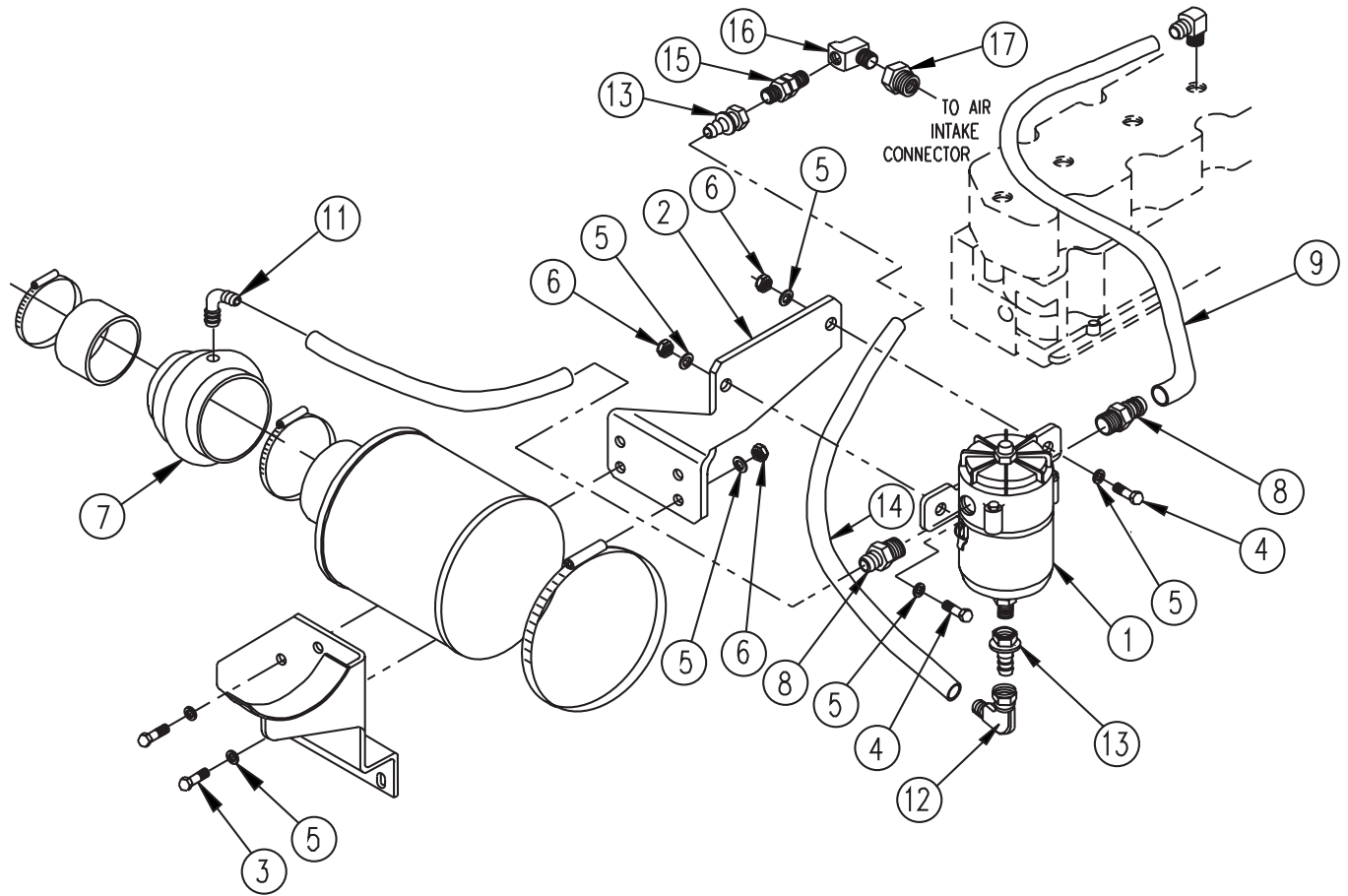


A-11314/ B-9102

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-20015	1	Crankcase Breather Filter, Left hand	-
7	21-20003	2	Male Connector, PVC 7/8 O-R Port x 3/4 HB	-
8	41-00002	90"	Hose 3/4" I.D. Push-on	-
9	21-12809	1	Male Elbow, 90° Brass 3/4 NPT x 3/4 HB	-
10	21-71034	2	Female Swivel, Brass 3/8 HB x 3/8- 37T	-
11	41-01020	9	Hose, 3/8" I.D. Push-on	-
12	21-20002	1	One Way Valve, Brass 1/4 NPT x 3/8- 37	-
13	21-51098	1	Street Elbow, 90° Brass 1/4 NPT	-
14	21-00133	1	Bushing, Brass 3/4 NPT x 1/4 NPT	-

Crankcase Breather Filter

M175C2

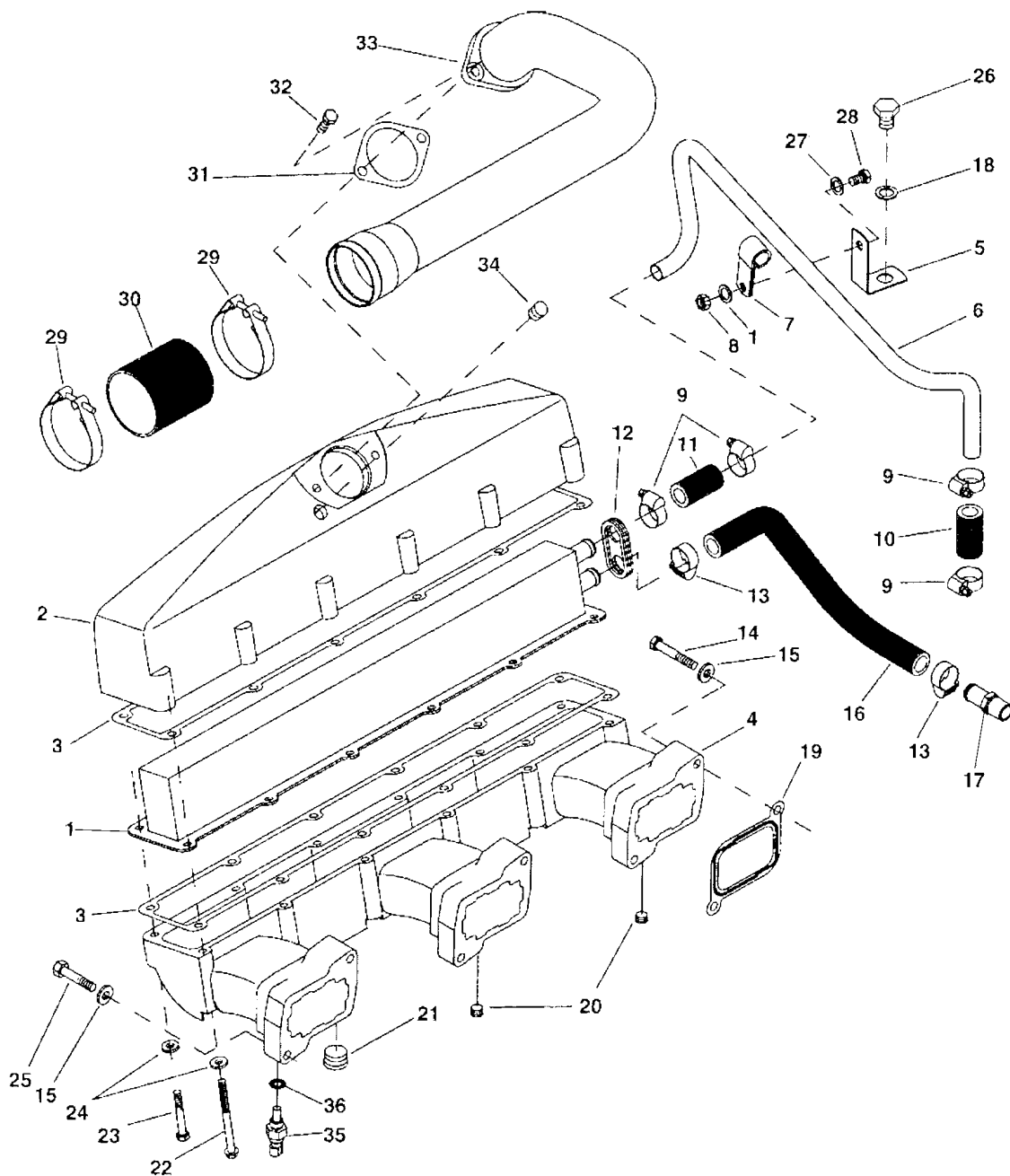


A-10590/ B-9107

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-20018	1	Crankcase Breather Filter, Right hand	-
2	23-22504	1	Bracket, Crankcase Breather Filter	-
3	12-00313	4	Capscrew, Hex Head 3/8- 16 x 1- 1/4"	-
4	12-00314	2	Capscrew, Hex Head 3/8- 16 x 1- 1/2"	-
5	15-00321	12	Flat Washer, 3/8" SAE	-
6	14-00312	6	Hex Nut, Nylock 3/8- 16	-
7	18-22504	1	Hump Hose 4" I.D. x 5- 1/4"	-
8	21-20003	2	Male Connector, PVC 7/8 O-ring Port	-
9	41-00002	34"	Hose, 3/4" I.D. Push-on	-
11	21-00025	1	Male Elbow, 90° PVC 3/4 HB x 3/4 HB	-
12	21-52213	1	Elbow, 90° Swivel, Steel 3/8- 37T	-
13	21-71034	2	Female Swivel, Brass 3/8 HB x 3/8- 37T	-
14	41-01020	46"	Hose, 3/8" I.D. Push-on	-
15	21-20002	1	One Way Valve Brass 1/4 NPT x 3/8-37	-
16	21-51098	1	Street Elbow 90° Brass 1/4 NPT	-
17	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT	-

Air Inlet

L1166



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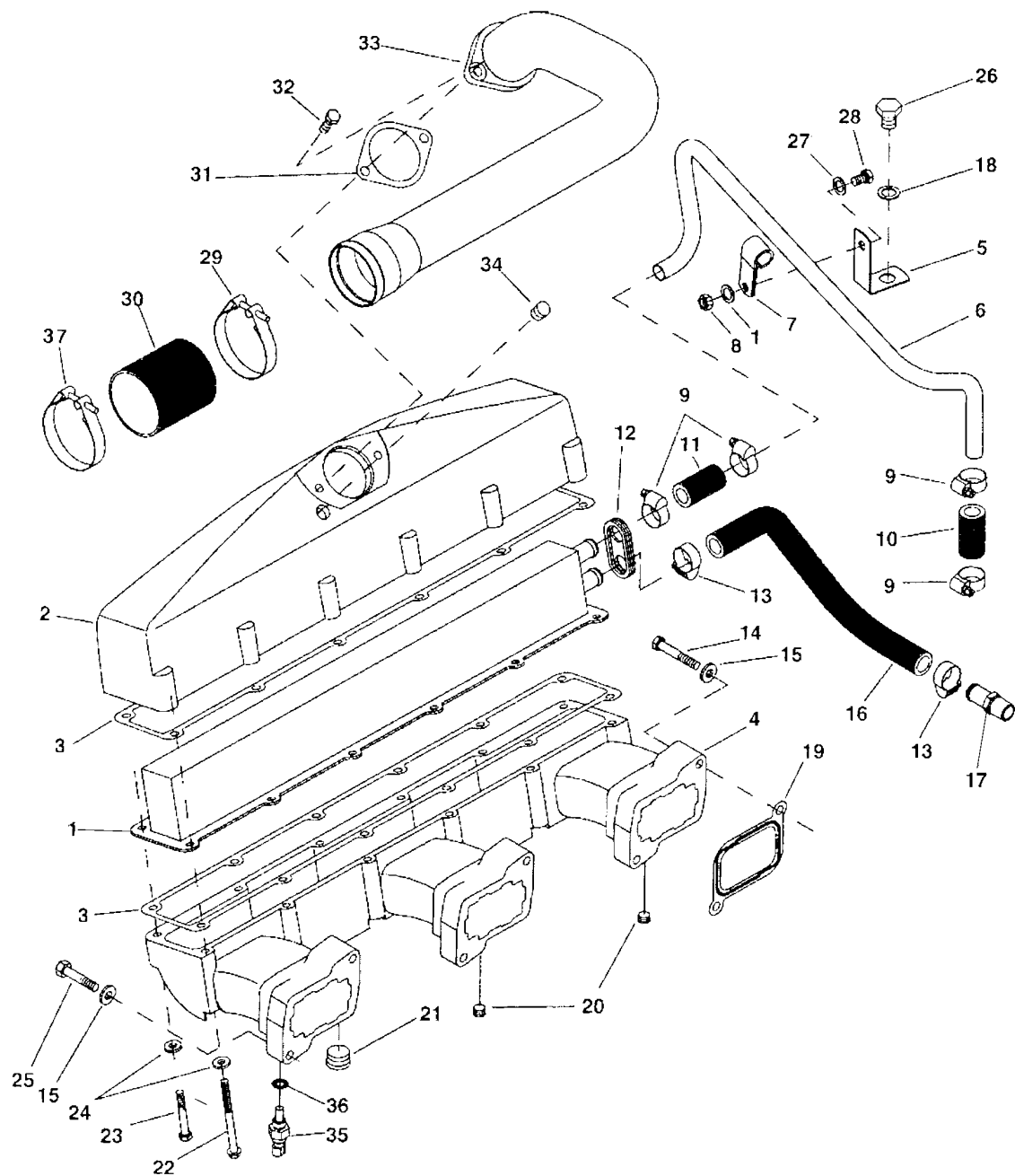
Air Inlet

L1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE31029	1	Aftercooler	-
2	R113460	1	Cover	-
3	R505627	2	Gasket	-
4	R519334	1	Intake Manifold	-
5	R503507	1	Bracket	-
6	R503508	1	Oil Line	-
7	T27523	1	Clamp	-
8	14H812	1	Nut, 3/8"	-
9	TY22467	4	Clamp	-
10	R503551	1	Hose	-
11	R129607	1	Hose	-
12	R100911	1	Seal	-
13	TY22467	2	Clamp	-
14	19H1726	3	Capscrew, 3/8" x 2- 1/4"	-
15	24H1682	6	Washer	-
16	R100748	1	Hose	-
17	R39503	2	Fitting	-
18	24H1658	1	Washer	-
19	R130573	3	Gasket	-
20	RE71255	2	Pipe Plug, 1/8"	-
21	15H690	1	Pipe Plug	-
22	19H3300	6	Capscrew, 5/16" x 3- 3/4"	-
23	19H3132	6	Capscrew, 5/16" x 2- 1/4"	-
24	24H1136	12	Washer	-
25	19H3217	3	Capscrew, 3/8" x 1- 3/4"	-
26	19H2367	1	Capscrew, 5/8" x 3/4"	-
27	24H1305	2	Washer	-
28	19H2021	1	Capscrew, 3/8" x 5/8"	-
29	RE52702	2	Clamp	-
30	R503585	1	Hose	-
31	R504009	1	Gasket	-
32	19H1731	2	Capscrew, 3/8" x 1"	-
33	RE508775	1	Tube	-
34	15H690	1	Pipe Plug, 19.05 mm	-
35	RE61812	1	Sensor, Air Temperature	-
36	51M7041	1	O-ring	-

Air Inlet

MP150C - M175C2



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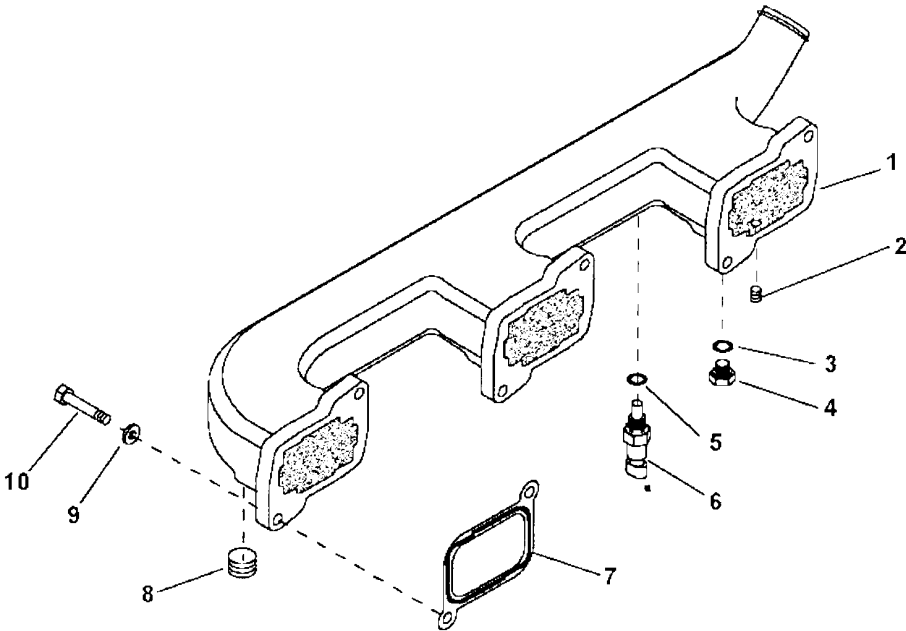
Air Inlet

MP150C - M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE31029	1	Aftercooler	-
2	R113460	1	Cover	-
3	R505627	2	Gasket	-
4	R519334	1	Intake Manifold	-
5	R503507	1	Bracket	-
6	R503508	1	Oil Line	-
7	T27523	1	Clamp	-
8	14H812	1	Nut, 3/8"	-
9	TY22467	4	Clamp	-
10	R503551	1	Hose	-
11	R129607	1	Hose	-
12	R100911	1	Seal	-
13	TY22467	2	Clamp	-
14	19H1726	3	Capscrew, 3/8" x 2- 1/4"	-
15	24H1682	6	Washer	-
16	R100748	1	Hose	-
17	R39503	2	Fitting	-
18	24H1658	1	Washer	-
19	R130573	3	Gasket	-
20	RE71255	2	Pipe Plug, 1/8"	-
21	15H690	1	Pipe Plug	-
22	19H3300	6	Capscrew, 5/16" x 3- 3/4"	-
23	19H3132	6	Capscrew, 5/16" x 2- 1/4"	-
24	24H1136	12	Washer	-
25	19H3217	3	Capscrew, 3/8" x 1- 3/4"	-
26	19H2367	1	Capscrew, 5/8" x 3/4"	-
27	24H1305	2	Washer	-
28	19H2021	1	Capscrew, 3/8" x 5/8"	-
29	AT37693	1	Hose Clamp	-
30	R56551	1	Hose	-
31	R504009	1	Gasket	-
32	19H1731	2	Capscrew, 3/8" x 1"	-
33	RE508794	1	Tube	-
34	15H690	1	Pipe Plug, 3/4"	-
35	RE61812	1	Sensor, Air Temperature	-
36	51M7041	1	O-ring	-
37	R110531	1	Clamp	-

Intake Manifold

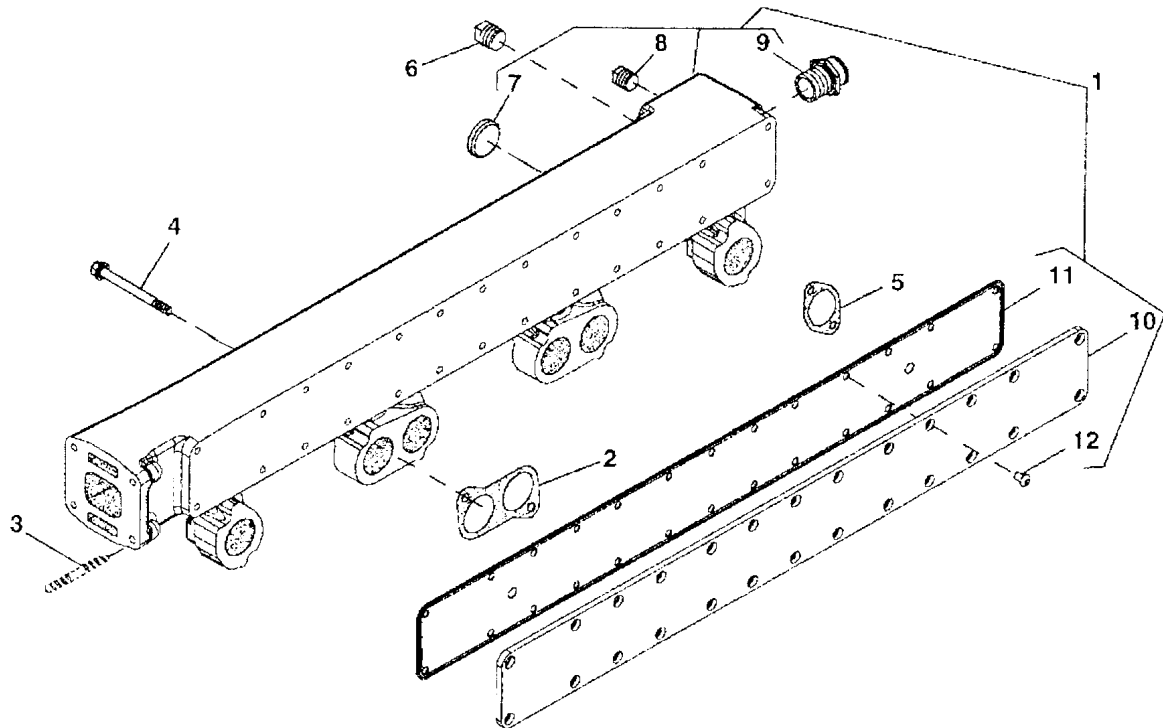
NL1166



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R503926	1	Intake Manifold	-
2	RE71255	1	Pipe Plug, 1/8"	-
5	R77673	1	O-ring	-
6	RE61812	1	Sensor, Air Temperature	-
7	R130573	3	Gasket	-
8	15H690	1	Pipe Plug, 3/4"	-
9	24H1682	6	Washer	-
10	19H2633	6	Capscrew	-

Exhaust Manifold

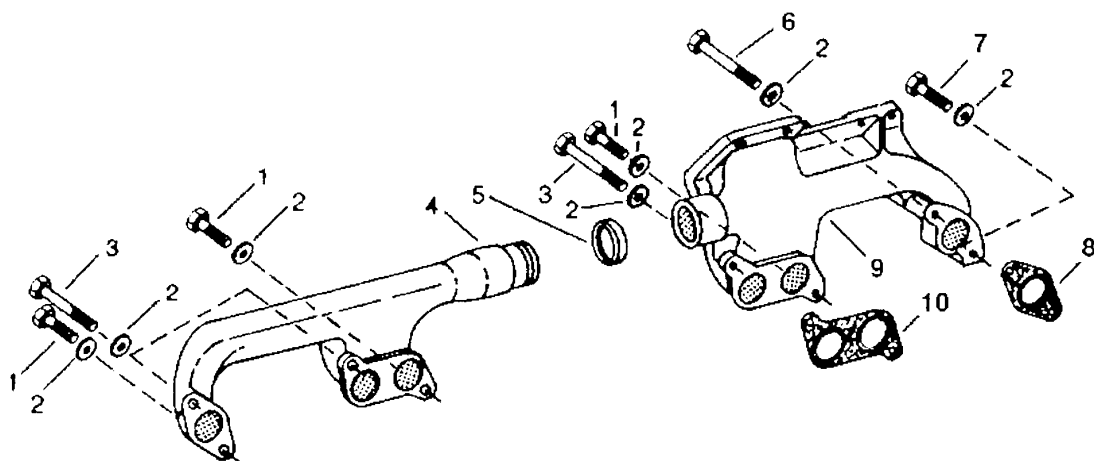


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE515691	1	Exhaust Manifold (marked R515269, includes keys 7- 13)	-
2	RE62777	2	Gasket	-
3	R55078	4	Stud	-
4	R502467	8	Screw	-
5	RE62776	2	Gasket	-
6	15H690	1	Pipe Plug, 3/4"	-
7	R43409	3	Plug	-
8	15H584	2	Pipe Plug, 1/2"	-
9	R502405	1	Adapter	-
10		1	Cover*	-
11	R504788	1	Gasket	-
12	RE515695	26	Screw	-
13	RE515610	26	Sealing Washer (not shown)	-

Exhaust Manifold

NL1166

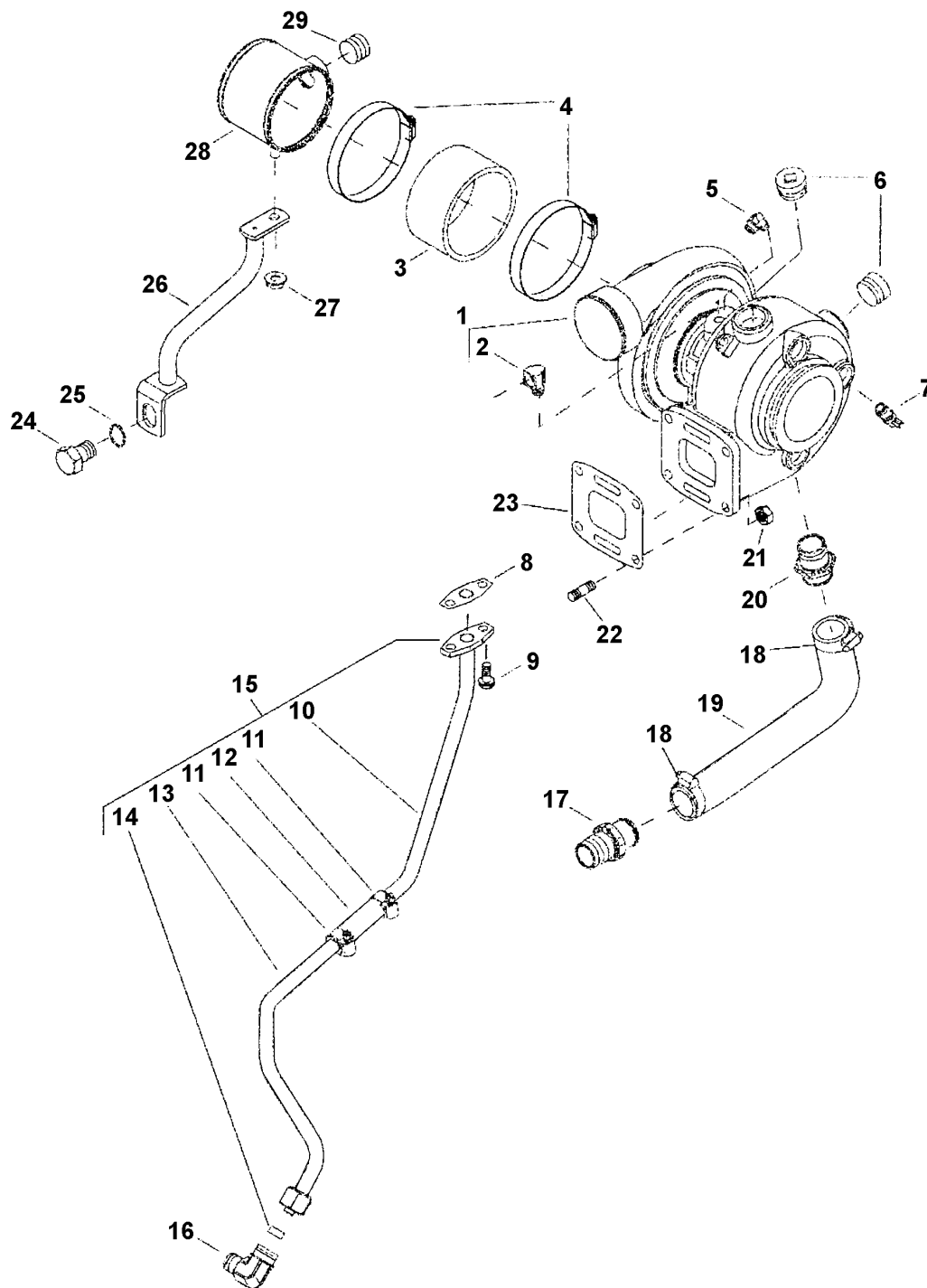


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19H3217	3	Capscrew, 3/8" x 1-3/4"	-
2	R63845	8	Washer	-
3	19H2458	3	Capscrew, 3/8" x 3"	-
4	R46472	1	Exhaust Manifold	-
5	R122595	1	Ring	-
6	19H3912	1	Capscrew, 3/8" x 3- 3/8"	-
7	19H3217	1	Capscrew, 3/8" x 1- 3/4"	-
8	RE62777	2	Gasket	-
9	R86029	1	Exhaust Manifold	-
10	RE62776	2	Gasket	-

Turbocharger

L1166



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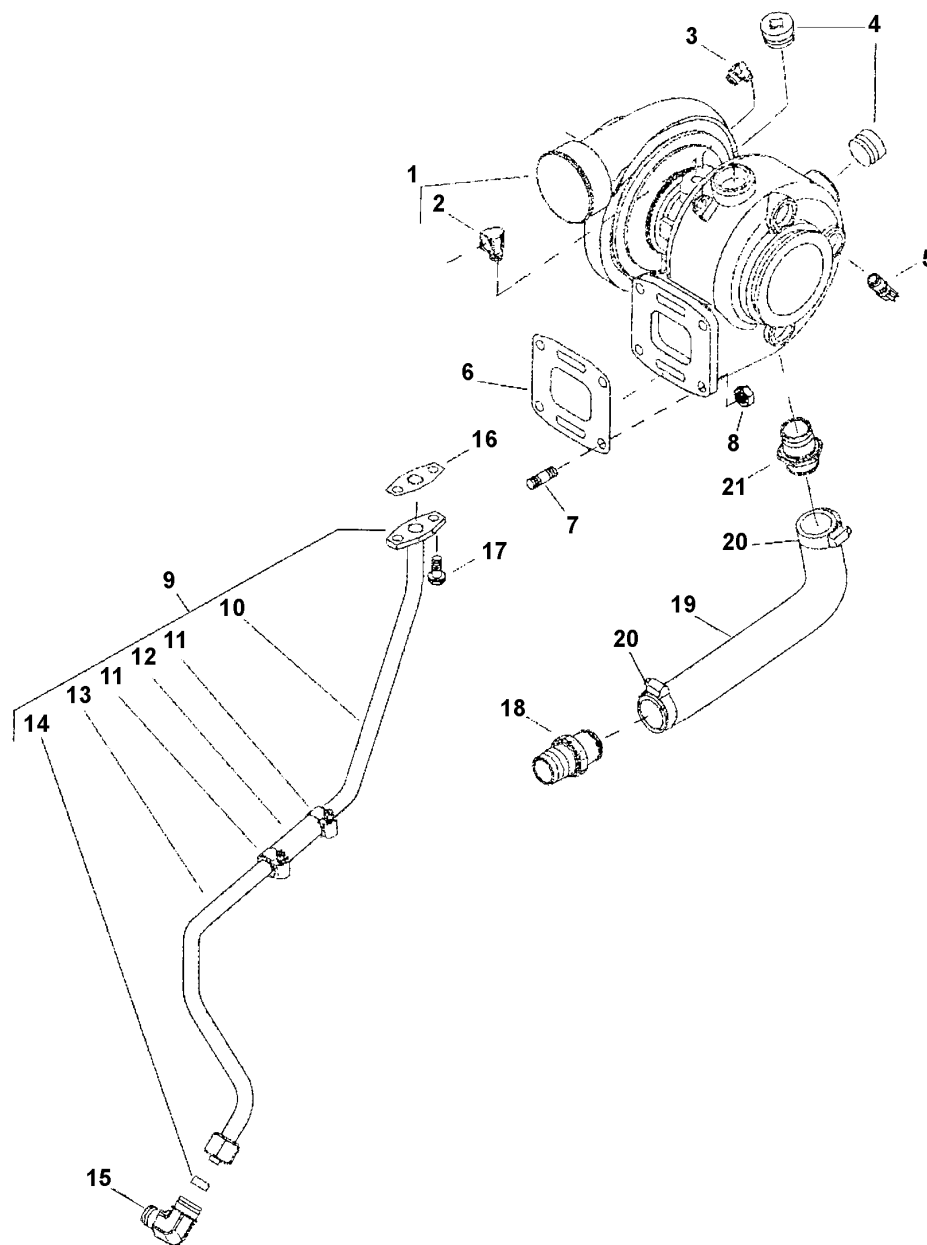
Turbocharger

L1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	SE500421	1	Turbocharger (marked RE503252, remanufactured includes key #2)	-
2	T11180	1	Elbow Fitting	-
3	R504950	1	Suction Hose	-
4	TY22489	2	Hose Clamp	-
5	R67364	1	Elbow Fitting	-
6	15H686	2	Pipe Plug 1"	-
7	AT13740	1	Drain Valve	-
8	R105346	1	Gasket	-
9	R122618	2	Screw	-
10	RE508778	1	Oil Line	-
11	AR21839	2	Clamp	-
12	R503584	1	Hose	-
13	RE506112	1	Oil Line	-
14	R120138	1	Sleeve	-
15	RE508777	1	Fuel Line	-
16	R120187	1	Elbow Fitting	-
17	R502798	1	Adapter	-
18	AR21839	2	Clamp	-
19	R504977	1	Hose	-
20	R502405	1	Adapter	-
21	E55662	4	Flange Nut 3/8"	-
22	R55078	4	Stud	-
23	R108612	1	Gasket	-
24	19H2369	1	Capscrew, 3/4" x 1"	-
25	24M7353	1	Washer	-
26	RE505539	1	Support	-
27	14M7296	1	Flange Nut, M10	-
28	RE502664	1	Adapter	-
29	15H690	1	Pipe Plug, 3/4"	-
30	RE524764	1	Bushing	-
Note: See oil filter assembly for turbo oil supply tube and related parts.				

Turbocharger

MP150C - M175C2



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Turbocharger

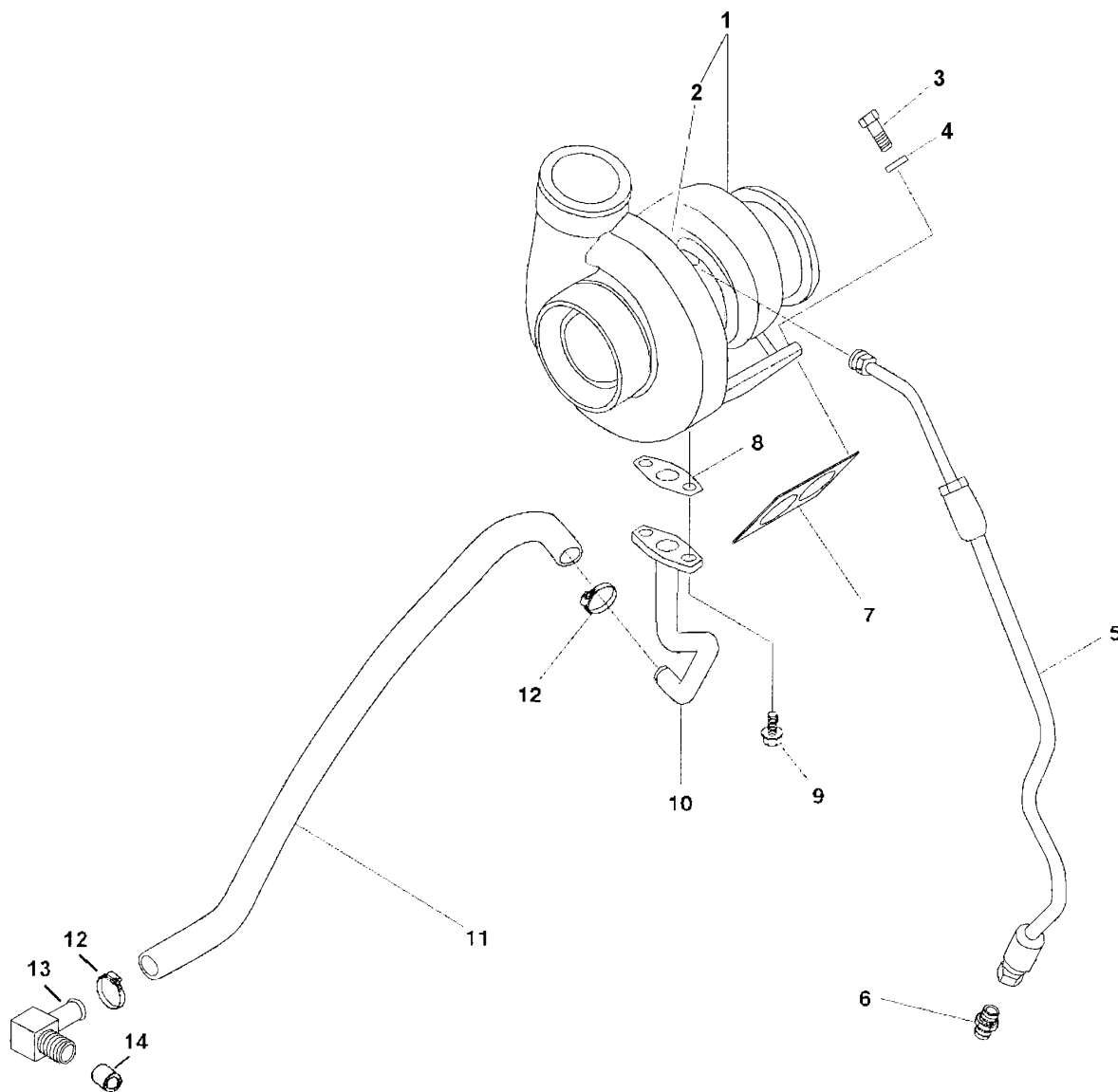
MP150C - M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE502856	1	Turbocharger (marked RE503252, remanufactured)	-
2	T11180	1	Elbow Fitting	-
3	R67364	1	Elbow Fitting	-
4	15H686	2	Pipe Plug	-
5	AT13740	1	Drain Valve	-
6	R108612	1	Gasket	-
7	R55078	4	Stud	-
8	E55662	4	Flange Nut, 3/8"	-
9	RE508777	1	Tube Assembly, Turbo Oil Return	-
10	RE508778	1	Oil Line	-
11	AR21839	2	Clamp	-
12	R503584	1	Hose	-
13	RE506112	1	Oil Line	-
14	R120138	1	Sleeve	-
15	R120187	1	Elbow Fitting	-
16	R105346	1	Gasket	-
17	R122618	2	Screw	-
18	R502798	1	Adapter	-
19	R504977	1	Hose	-
20	AR21839	2	Clamp	-
21	R502405	1	Adapter	-

Note: See oil filter assembly for turbo oil supply tube and related parts.

Turbocharger

NL1166



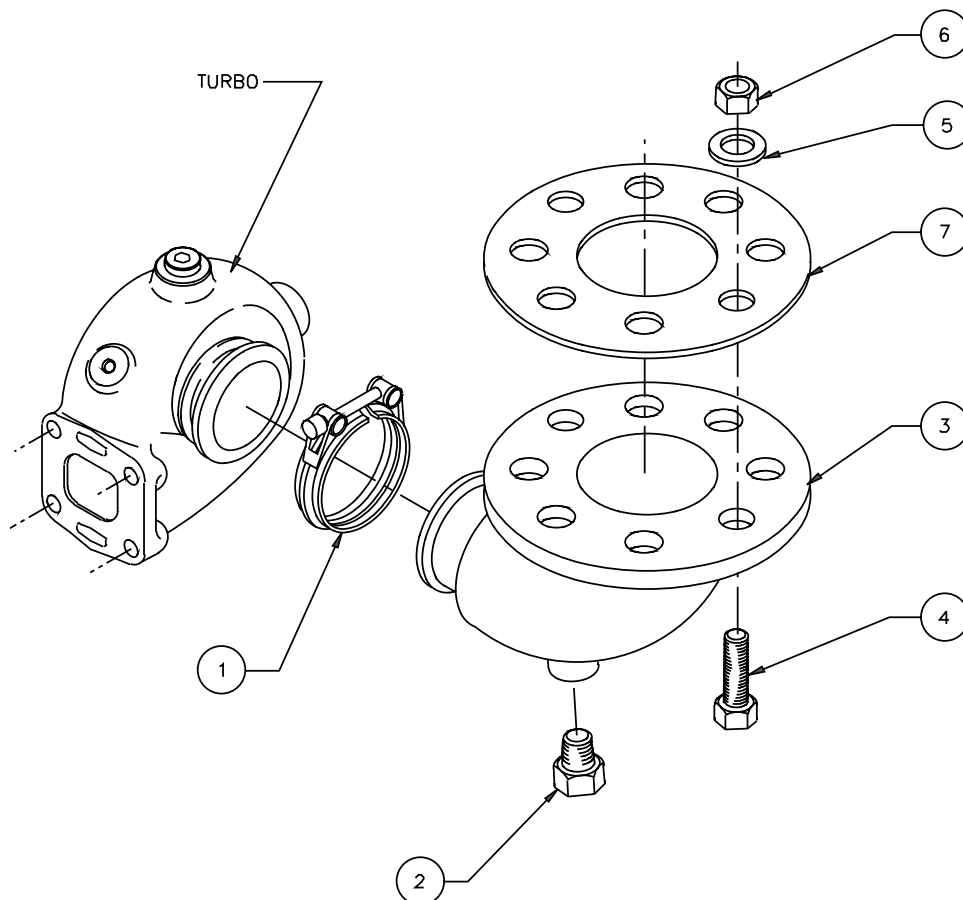
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Turbocharger

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE508711	1	Turbocharger (marked RE515519, remanufactured, includes key #2)	-
2	T11180	1	Elbow Fitting	-
3	R54500	1	Screw, 3/8" x 1"	-
4	24H1305	4	Washer	-
5	RE43019	1	Hose	-
6	RE57561	1	Adapter Fitting	-
	R49424	1	O-ring	-
	RE504581	1	Elbow Fitting	-
7	R89879	1	Gasket	-
8	R105346	1	Gasket	-
9	R122618	2	Screw	-
10	RE63788	1	Oil Line	-
11	R130783	1	Hose	-
12	TY22467	2	Clamp	-
	R42045	1	Clip	-
13	R126812	1	Elbow Fitting	-
14	RE524764	1	Threaded Nipple	from 256768 -
	R72853	1	Clamp	-
Note: See oil filter assembly for turbo oil supply tube and related parts.				

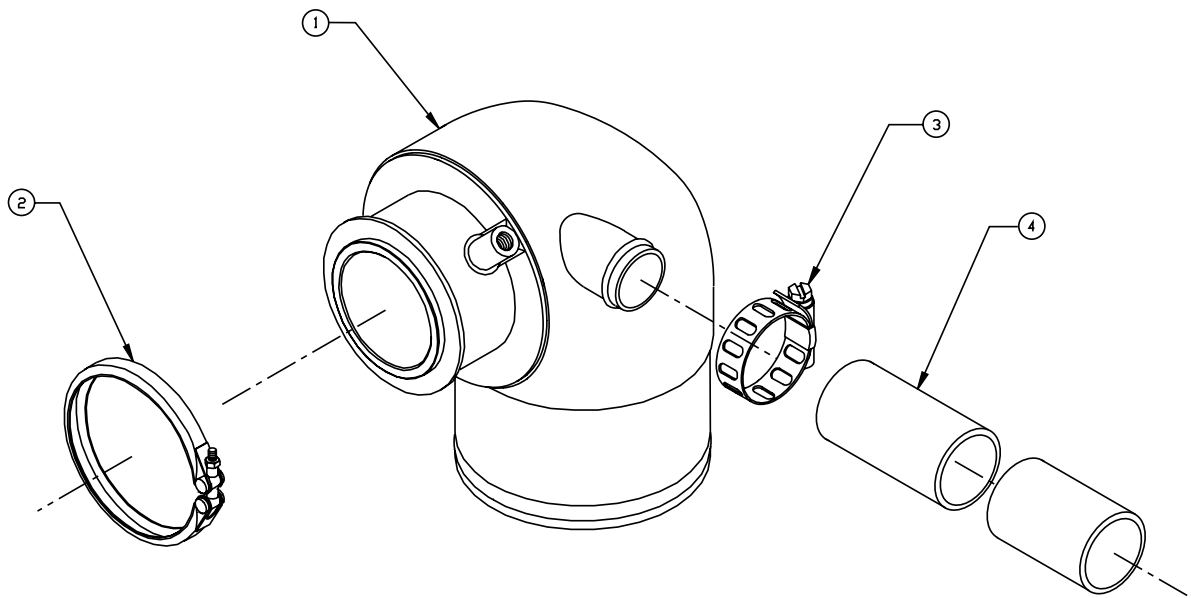
Dry Exhaust Elbow 4"



A-9392/ B-4638

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE47537	1	V-clamp	-
2	21-31624	1	Plug, Hex Head Brass 1/4 NPT	-
3	27-32522	1	Elbow, Dry Exhaust 4" 150 lb. Flange	-
4	12-00916	8	Capscrew, Hex Head 5/8- 11 x 2"	-
5	15-00902	8	Lock Washer, Helical 5/8"	-
6	14-00911	8	Hex Nut 5/8- 11	-
7	11-31099	1	Gasket	-

Wet Exhaust Elbow 6"

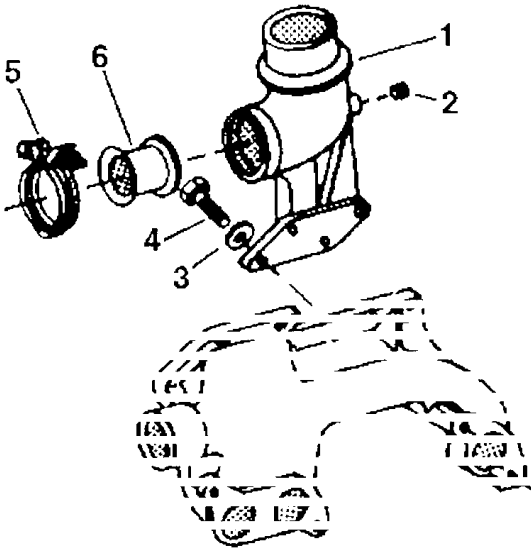


A-9393/ B-4240

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-36001	1	Wet Exhaust Elbow 5"	-
2	RE47537	1	V-Clamp	-
3	41-01070	**	Hose, 1- 1/4" I.D. (sold per inch)	-
4	19-00020	2	Hose Clamp #20	-
**As required				

Exhaust Elbow

NL1166

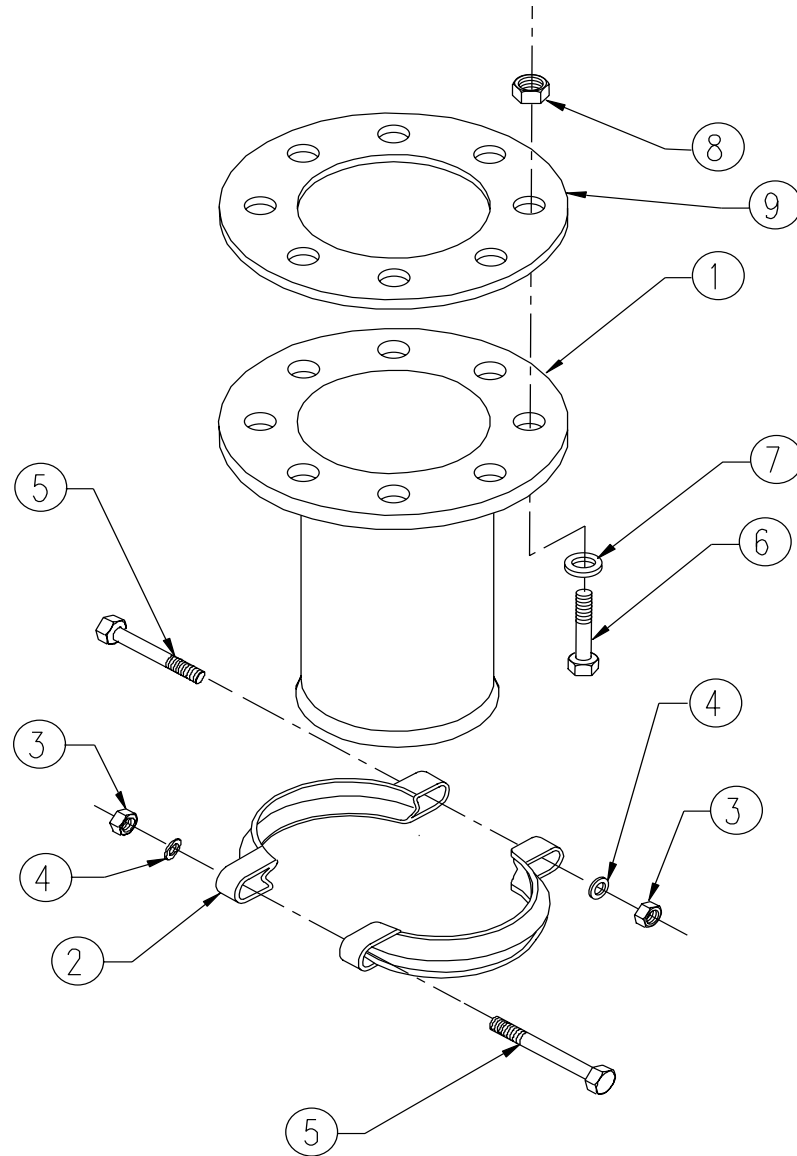


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R116611	1	Exhaust Elbow	-
2	15H604	14	Pipe Plug, 1/4"	-
3	24H1305	4	Washer	-
4	R54500	4	Screw	-
5	RE40048	1	Clamp	-
6	R87732	1	Adapter Fitting	-

Exhaust Adapter 4"

NL1166



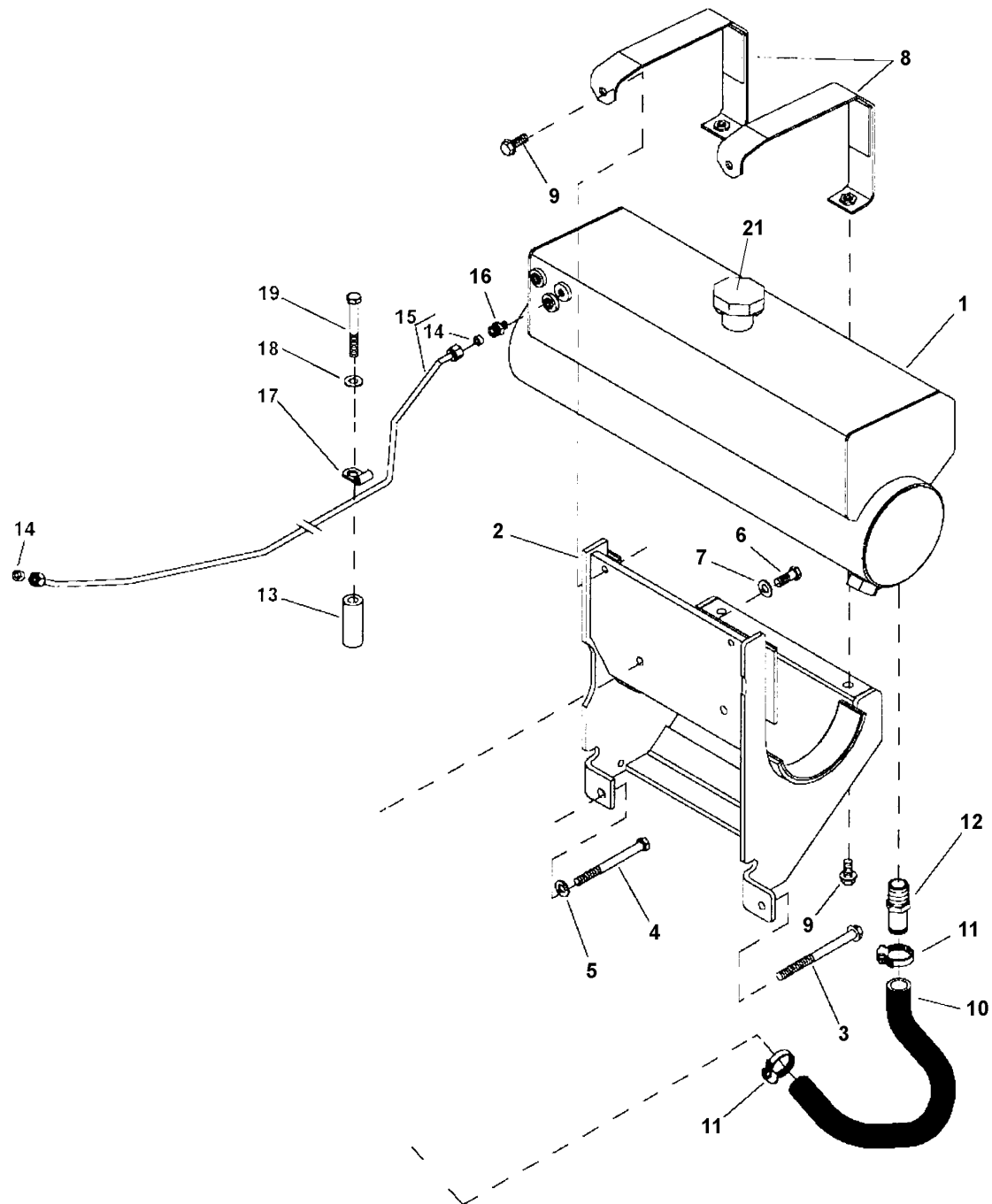
A-1088E/ B-1566B

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	31-31066	1	Exhaust Adapter 4"	-
	27-31009	1	Exhaust Flex S/S 4" x 18"	-
2	AR43704	2	Clamp kit with fasteners (includes keys 3-5)	-
3	14-00311	2	Hex Nut 3/8- 16	-
4	15-00321	4	Flat Washer 3/8" SAE	-
5	12-00310	2	CapscREW, Hex Head 3/8- 16 x 3"	-
6	12-00914	8	CapscREW, Hex Head 5/8- 11 x 1- 3/4"	-
7	15-00902	8	Lock Washer Helical 5/8"	-
8	14-00911	8	Hex Nut 5/8- 11	-
9	11-31099	1	Gasket	-

Heat Exchanger and Expansion Tank

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE518585	1	Expansion Tank	-
2	RE504668	1	Bracket	-
3	19H3300	1	Capscrew, 5/16" x 3- 3/4"	-
4	19H2228	1	Capscrew, 3/8" x 4"	-
5	24M7096	1	Washer	-
6	19H1731	2	Capscrew, 3/8" x 1"	-
7	24H1305	2	Washer	-
8	RE504703	2	Retainer	-
9	19H3771	4	Screw, 3/8" x 1"	-
10	R502812	1	Suction Hose	-
11	RE509868	2	Clamp	-
12	R502887	1	Radiator Hose	-
13	TY22474	2	Clamp	-
14	R502888	1	Hose	-
15	TY22467	2	Clamp	-
16	RE505909	1	Tube	-
17	R71732	1	O-ring	-
18	19H1936	1	Capscrew, 3/8" x 3/4"	-
19	RE45458	1	Water Pump (see assembly detail)	-
20	R112797	1	Spacer	-
21	R51936	2	Sealing Washer	-
22	RE508758	1	Tube Assembly	-
23	RE502650	1	Fitting	-
24	R65099	1	Clip	-
25	24H1305	1	Washer	-
26	19H2458	1	Capscrew, 3/8" x 3"	-
27	RE54993	2	Plug (Zinc Anode, not shown)	-
28	R119823	1	Rod (not shown)	-
29	21-12513	1	Filler Cap	-

Keel Cooling Expansion Tank



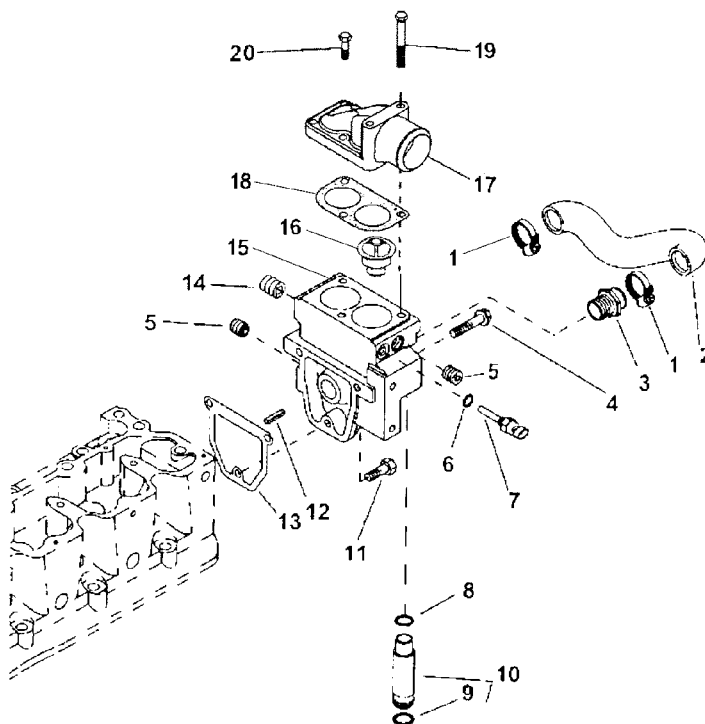
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Keel Cooling Expansion Tank

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE521180	1	Expansion Tank	-
2	RE504668	1	Bracket	-
3	19H3300	1	Capscrew, 5/16" x 3- 3/4"	-
4	19H2228	1	Capscrew, 3/8" x 4"	-
5	24M7096	1	Washer	-
6	19H1731	2	Capscrew, 3/8" x 1"	-
7	24H1305	2	Washer	-
8	RE504703	2	Retainer	-
9	19H3771	4	Screw, 3/8" x 1"	-
10	R502771	1	Suction Hose	-
11	TY22467	2	Clamp	-
12	R39503	1	Fitting	-
13	R11297	1	Spacer	-
14	R51936	2	Sealing Washer	-
	R51937	2	Tube Nut	-
15	RE508758	1	Line	-
16	RE502650	1	Fitting	-
17	R65099	1	Clip	-
18	24H1305	1	Washer	-
19	19H2458	1	Capscrew, 3/8" x 3"	-
20	RE54993	2	Plug	-
21	21-12513	1	Filler Cap	-

Thermostat Housing

L1166, MP150C, and M175C2

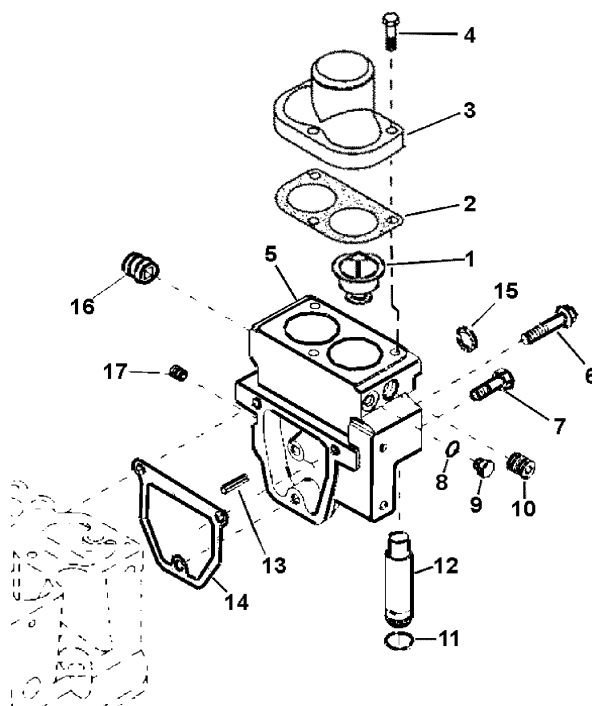


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR21839	2	Clamp	-
2	R502404	1	Radiator Hose	-
3	R502405	1	Adapter	-
4	R133998	2	Screw	-
5	RE57836	2	Pipe Plug	-
6	R77673	1	O-ring	-
7	RE151433	1	Coolant Temperature Sensor	-
8	R72328	1	O-ring	-
9	R504810	1	O-ring	-
10	RE509095	1	Tube	-
11	19H3772	1	Screw, 3/8" x 1- 3/4"	-
12	34H329	1	Spring Pin, 5/16" x 1- 1/4"	-
13	R86062	1	Gasket	-
14	15H690	1	Pipe Plug, 3/4"	-
15	R519579	1	Manifold	-
16	RE521352	2	Thermostat	-
17	R89439	1	Thermostat Cover	-
18	R124607	1	Gasket	-
19	19H2639	1	Capscrew, 3/8" x 3- 3/8"	-
20	19H3239	2	Capscrew, 3/8" x 1- 1/4"	-

Thermostat Housing

NL1166

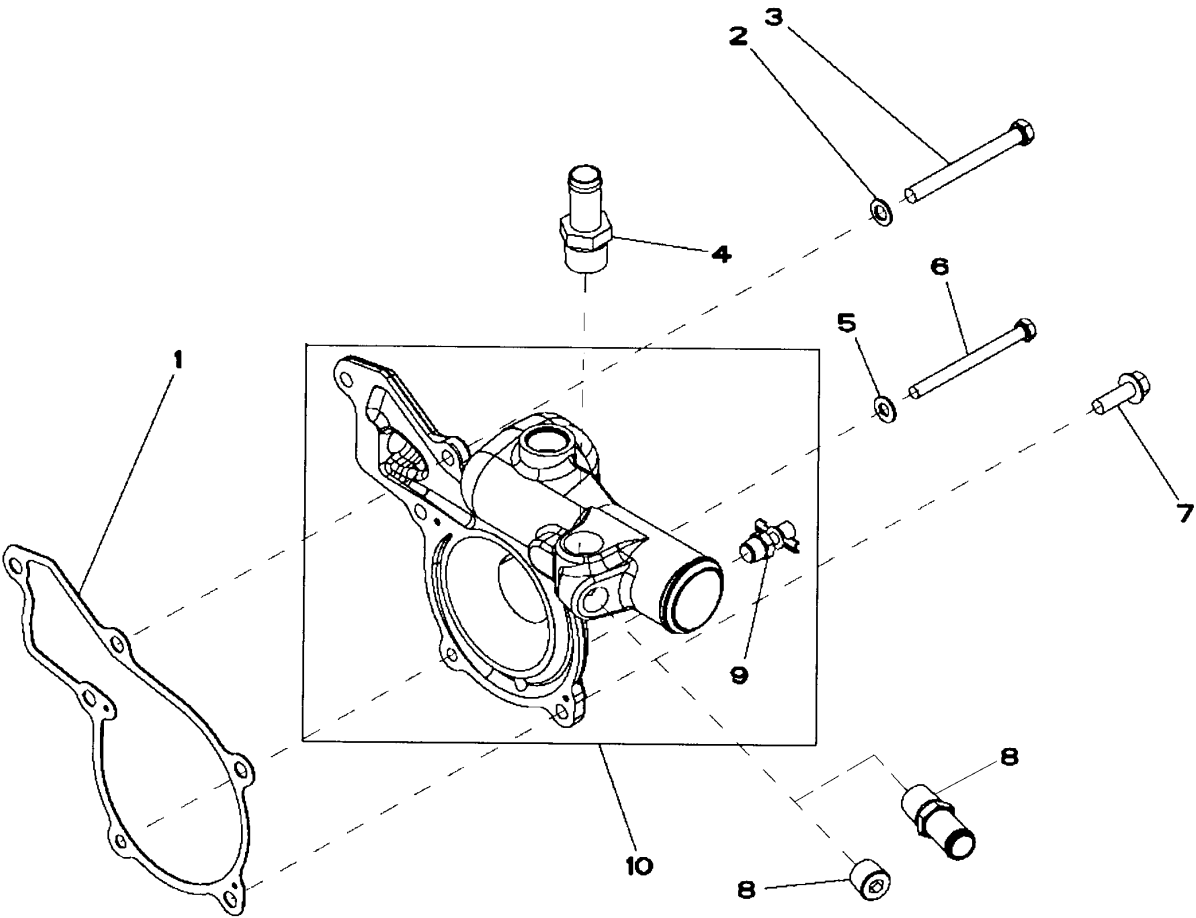


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR48675	2	Thermostat 180°F (82°C)	-
2	R124607	1	Gasket	-
3	R86007	1	Thermostat Cover	-
4	19H2639	3	Capscrew	-
5	R519578	1	Manifold	-
6	R133998	2	Screw, 3/8" x 3.6"	-
7	19H3772	1	Screw	-
8	R77673	1	O-ring	-
9	R82719	1	Fitting Plug	-
10	RE57836	1	Pipe Plug 1/2"	-
11	R504810	1	O-ring, Lower	-
	R72328	1	O-ring, Upper	-
12	RE509095	1	Tube	-
13	34H329	1	Spring Pin	-
14	R86062	1	Gasket	-
15	R502517	1	Plug	-
16	15H690	1	Pipe Plug, 3/4"	-
17	RE57836	1	Pipe Plug, 1/2"	-

Coolant Pump Housing

L1166 - MP150C - M175C2

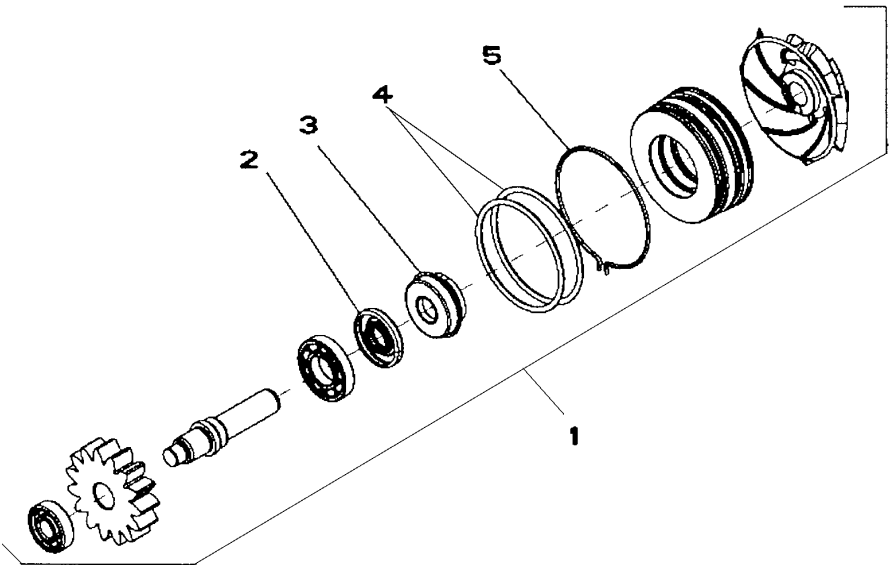


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R119383	1	Gasket	-
2	24M7096	2	Washer	-
3	19H1854	2	Capscrew, 3/8" x 3- 3/4"	-
4	H33801	1	Hose Fitting, 3/8" x 3- 3/4"	-
5	24H1136	1	Washer	-
6	19H1897	1	Capscrew	-
7	19H3411	2	Screw	-
8	RE57836	1	Pipe Plug, Heat Exchanged	-
	R35503	1	Connector, Keel Cooled	-
9	AT13740	1	Drain Valve	-
10	RE506689	1	Housing (marked R503445)	-

Coolant Pump

L1166 - MP150C - M175C2

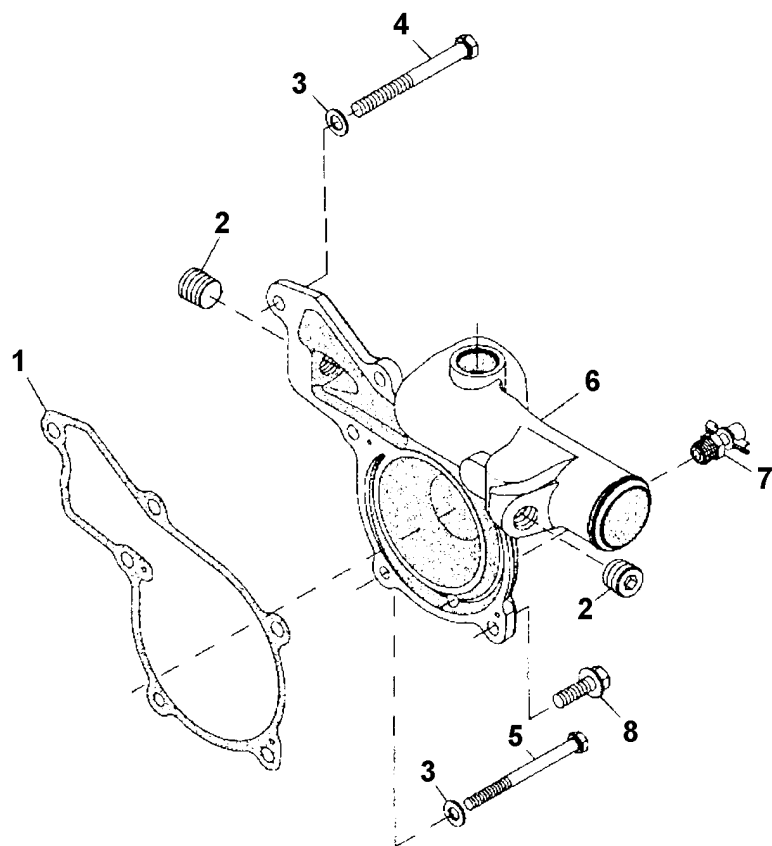


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE521503	1	Coolant Pump (includes keys 2- 6)	-
2	RE39134	1	Seal	-
3	RE521496	1	Seal Kit	-
4	RE509463	1	O-ring Kit	-
5	R121316	1	Ring	-
6	R26976	1	O-ring (not shown)	-

Coolant Pump Housing

NL1166

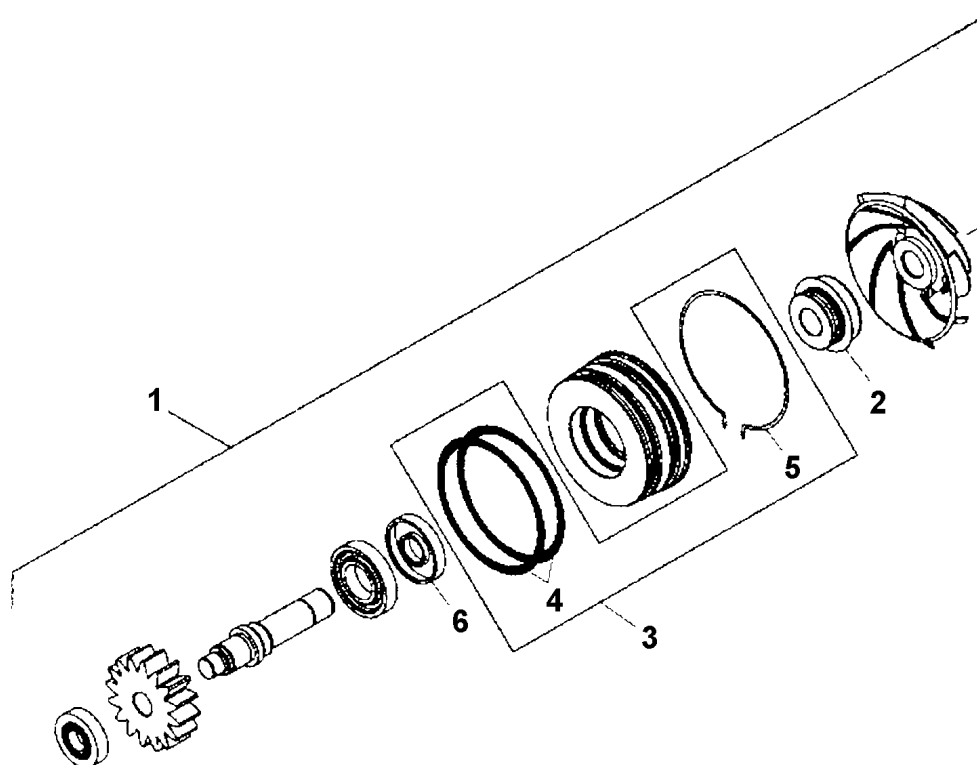


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R119383	1	Gasket	-
2	RE57836	2	Pipe Plug 1/2"	-
3	24H1136	3	Washer, 11/32" x 11/16" x 0.065"	-
4	19H3445	3	Capscrew, 3/8" x 3- 3/4"	-
5	19H1897	1	Capscrew, 5/16" x 3- 3/4"	-
6	R503427	1	Housing	-
7	AT13740	1	Drain Valve	-
8	19H34311	2	Screw, 3/8" x 1-1/8"	-

Coolant Pump

NL1166

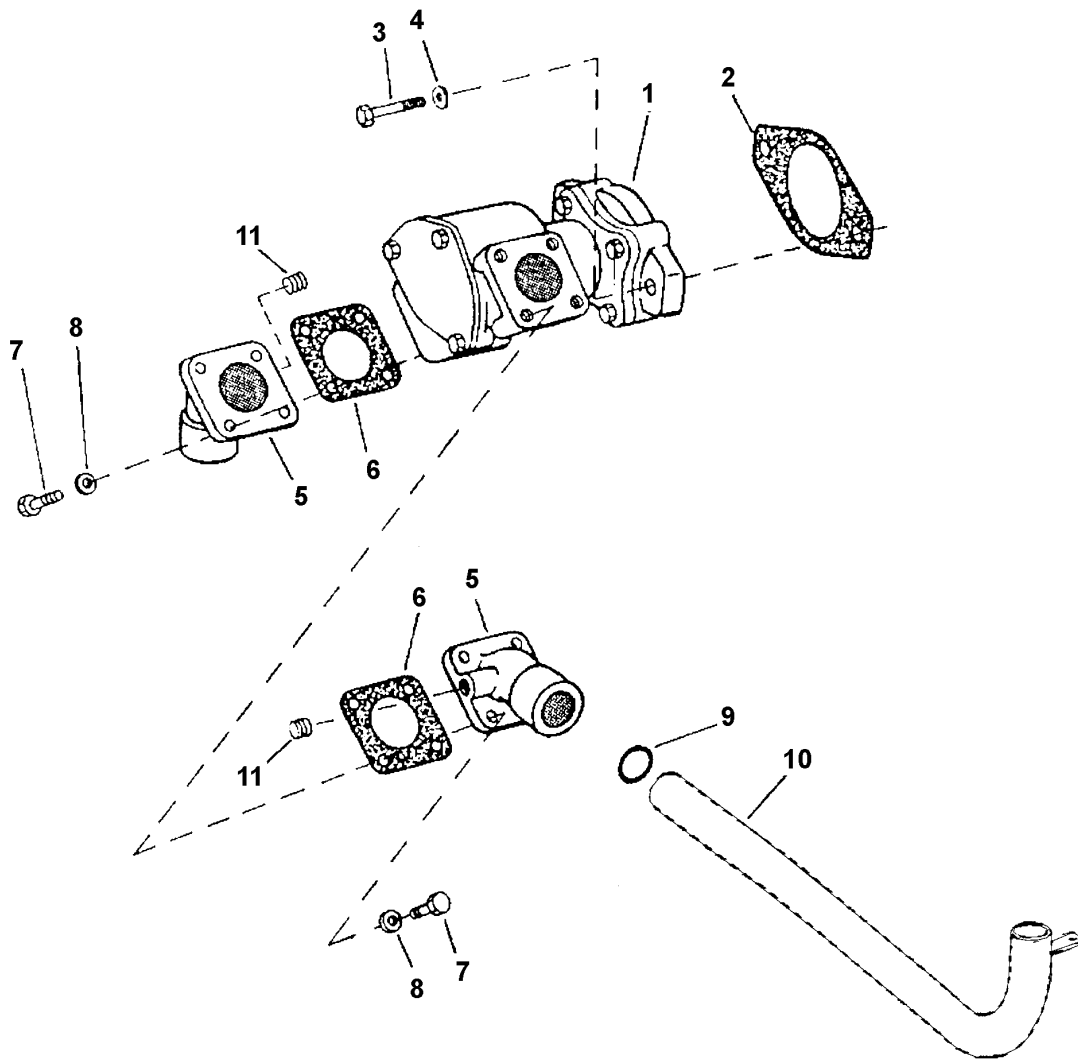


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE509598	1	Coolant Pump	-
2	RE68318	1	Ring	-
3	RE502154	1	Kit (includes keys #4-5)	-
4	R504778	1	O-ring, Blue	-
	R504791	1	O-ring, Pink	-
5	R121316	1	Ring	-

Raw Water Pump

L1166 - MP150C - M175C2

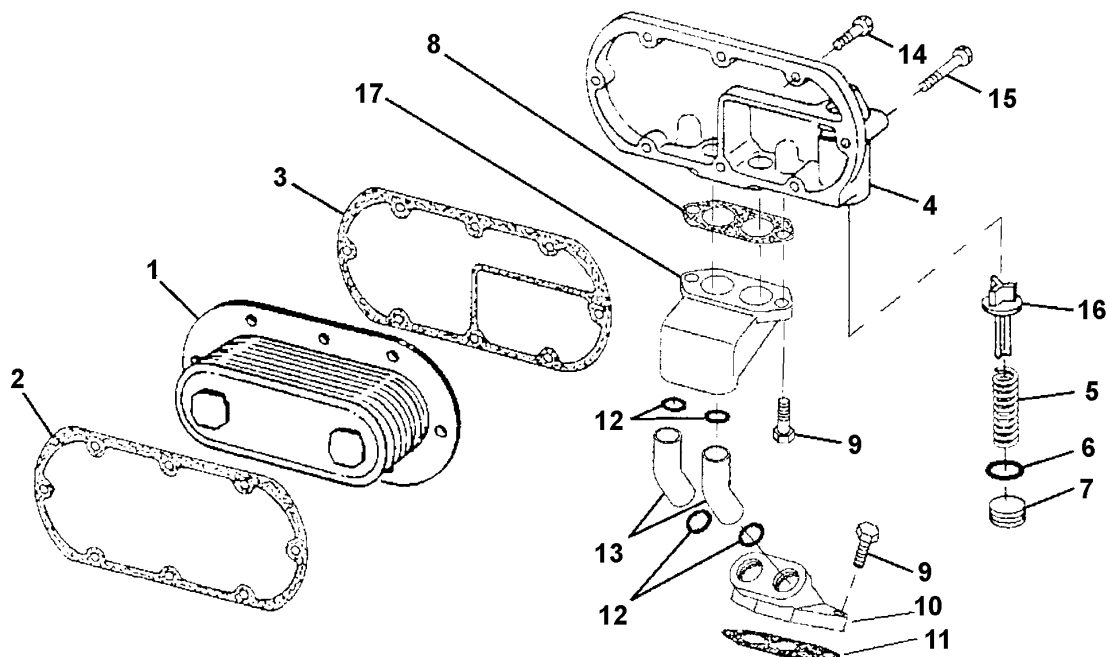


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE49896	1	Impeller Kit (contains impeller, o-ring, key, and rubber cap)	-
•	RE49897	1	Repair Kit (contains impeller kit, seals, bearings, and hardware)	-
1	RE45458	1	Raw Water Pump	-
2	R96935	1	Gasket	-
3	19H3239	2	Capscrew, 3/8" x 1- 1/4"	-
4	24H1305	2	Washer	-
5	R121644	2	Housing	-
6	R108848	2	Gasket	-
7	19M7376	8	Capscrew, M8 x 22	-
8	24H1136	8	Washer	-
9	R71732	1	O-ring	-
10	RE505909	1	Tube	-
11	L2646N	2	Plug	-

Oil Cooler

L1166, M175C2, MP150C, and NL1166

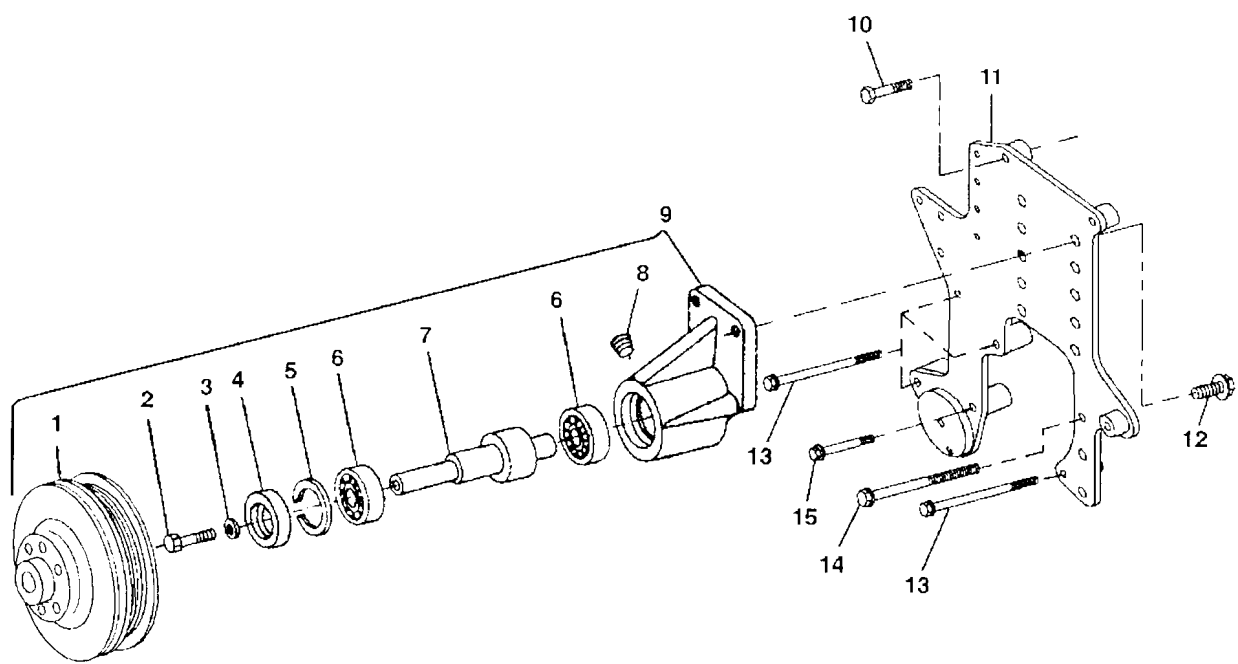


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR55394	1	Oil Cooler	-
2	RE524105	1	Gasket	-
3	R132396	1	Gasket	-
4	R134603	1	Cover	-
5	R98064	1	Spring	-
6	U17409	1	O-ring	-
7	R121163	1	Drain Plug	-
8	R124030	1	Gasket	-
9	19H3411	4	Screw, 3/8" x 1- 1/8"	-
10	R124028	1	Adapter	-
11	R520547	2	Gasket	-
12	R47153	4	O-ring	-
13	R124031	2	Oil Tube	-
14	19H3768	5	Screw, 5/16" x 1- 3/8"	-
15	19H3769	3	Screw, 5/16" x 2- 1/2"	-
16	R500055	1	Valve	-
17	R124029	1	Adapter	-
			**As required	

Fan Drive

NL1166



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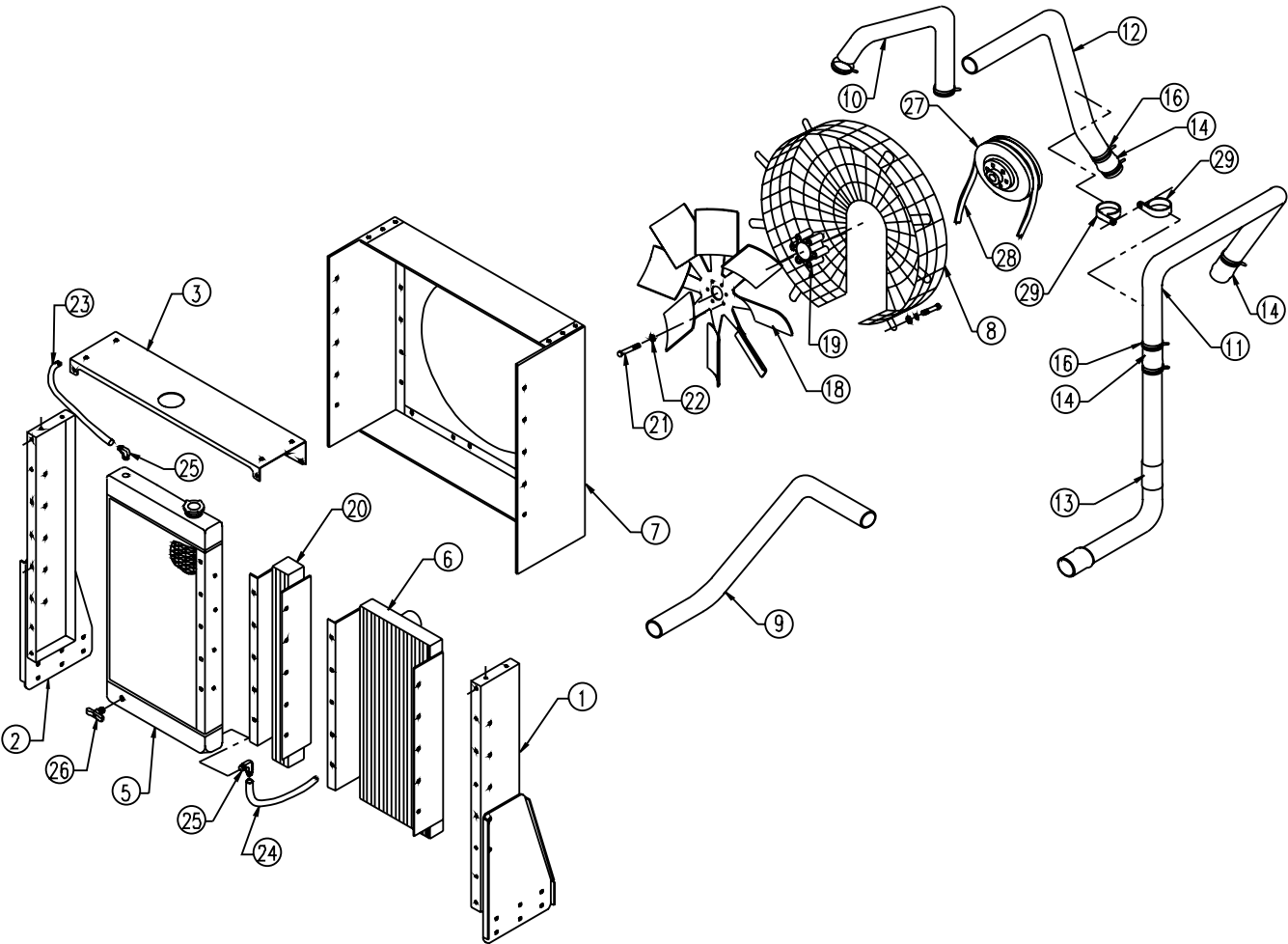
Fan Drive

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R500135	1	Pulley	-
2	19H1815	1	Capscrew, 1/2" x 1- 1/4"	-
3	R35256	1	Washer	-
4	RE20768	1	Seal	-
5	R62191	2	Snap Ring, Red	-
	R62192	**	Snap Ring, Green	-
	R62193	**	Snap Ring, Blue	-
	R62194	**	Snap Ring, White	-
6	JD10329	2	Ball Bearing	-
7	R63987	1	Shaft	-
8	15H686	1	Pipe Plug, 1"	-
9	RE63936	1	Housing (marked R127397)	-
10	19H3772	1	Screw	-
11	R129875	1	Plate	-
12	T55636	4	Screw	-
13	R135737	4	Screw	-
14	19H3711	1	Screw	-
15	R112273	1	Screw	-
16	N102039	1	Plug (not shown)	-

**As required

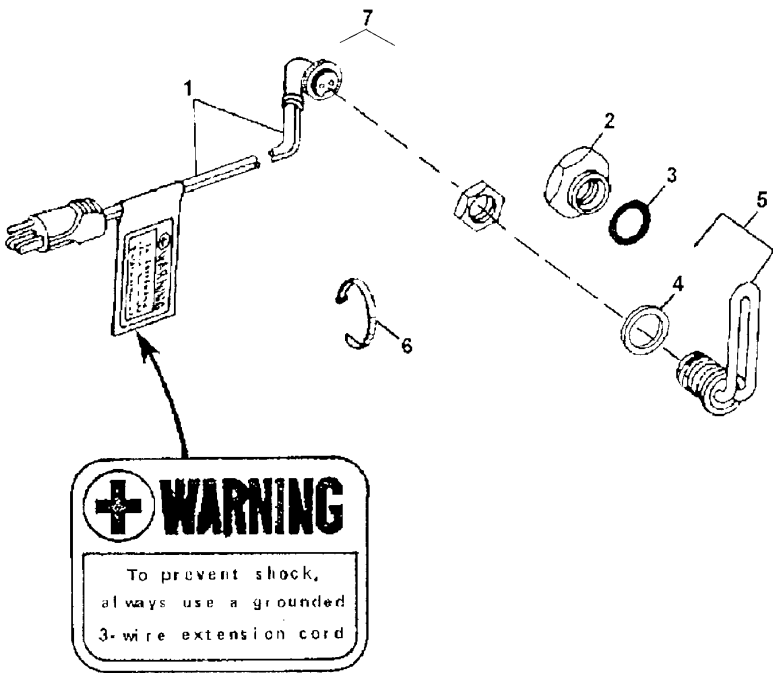
Radiator and Guard



A-10839/ B-9176

Radiator and Guard				
KEY	PART NUMBER	QTY	DESCRIPTION	S/N
1	39-12507	1	Side Panel, Left hand	-
2	39-12508	1	Side Panel, Right hand	-
3	39-12509	1	Top Panel	-
4	00-70082	1	Label, "Northern Lights"*	-
5	RE521150	1	Radiator	-
6	RE521173	1	Charge Air Cooler	-
7	RE521172	1	Fan Shroud	-
8	RE504405	1	Fan Guard	-
9	R518763	1	Hose, Radiator Outlet	-
10	R518762	1	Hose, Radiator Inlet	-
11	R518765	1	Tube, Charge Air Cooler Inlet	-
12	R518764	1	Tube, Charge Air Cooler Outlet	-
13	18-14805	1	Hose, 2-1/2" I.D. x 4" 3 Ply Silicone	-
14	R90980	3	Hose	-
15	B10121	1	Bushing*	-
16	AT37693	5	T-bolt Clamp 2- 9/16"	-
17	RE52702	4	Hose Clamp, Constant Tension Type	-
18	RE68278	1	Fan 36" (Blower)	-
19	31-12501	1	Fan Spacer	-
20	RE521174	1	Fuel Cooler	-
21	12-00376	6	Capscrew, Hex Head 3/8- 16 x 4" Grade 8	-
22	15-00307	6	Flat Washer 3/8", M10 Hardened	-
23	18-52506	1	Hose Assembly, 3/8" I.D. x 76"	-
24	18-52507	1	Hose Assembly, 3/8" I.D. x 145"	-
25	21-52504	2	Male Elbow, 90° Steel 3/8 NPT	-
26	21-10002	1	Drain Cock, Brass	-
27	R500135	1	Pulley, Fan Drive 220 mm	-
28	40-02501	1	Drive Belt	-
29	19-71034	2	Adelle Clamp	-
30	19-01300	2	T-bolt Clamp 3" S/S	-
31	12-00211	10	Capscrew, Hex Head 5/16- 18 x 3/4" Grade 8	-
32	15-00202	10	Lock Washer, Helical 5/16	-
33	15-00211	10	Flat Washer, 5/16"	-
34	12-00312	5	Capscrew, Hex Head 3/8- 16 x 1"	-
35	15-00302	5	Lock Washer, Helical 3/8"	-
36	15-00301	10	Flat Washer, 3/8"	-
37	14-00311	5	Hex Nut, 3/8- 16	-
38	12-11003	6	Capscrew, Hex Head 5/16- 18 x 7/8"	-
39	12-00213	4	Capscrew, Hex Head 5/16- 18 x 1- 1/4"	-
40	15-00202	10	Lock Washer, Helical 5/16	-
41	15-00211	10	Flat Washer 5/16"	-
42	12-01131	28	Capscrew, Hex Head M6 x 1.0 x 20 mm	-
43	15-00008	28	Flat Washer M6	-
44	15-00111	28	Flat Washer 1/4"	-
46	15-00302	12	Lock Washer, Helical 3/8"	-
47	15-00301	12	Flat Washer, 3/8"	-
48	12-00212	29	Capscrew, Hex Head 5/16- 18 x 1"	-
49	15-00202	29	Lock Washer, Helical 5/16	-
50	15-00211	29	Flat Washer, 5/16"	-
Note: Items 31- 50 not shown. Fasteners #31-33 are for the fuel cooler to radiator, items #34- 37 are for the fuel cooler to charge air cooler, items #38- 41 are for the side panels to the coolant system assembly, #42- 44 are for the top panel and air duct/ screen to side panels, #45- 47 are for the coolant system assembly to base frame, and #48- 50 are for the fan shroud and guard assembly.				

Block Heater

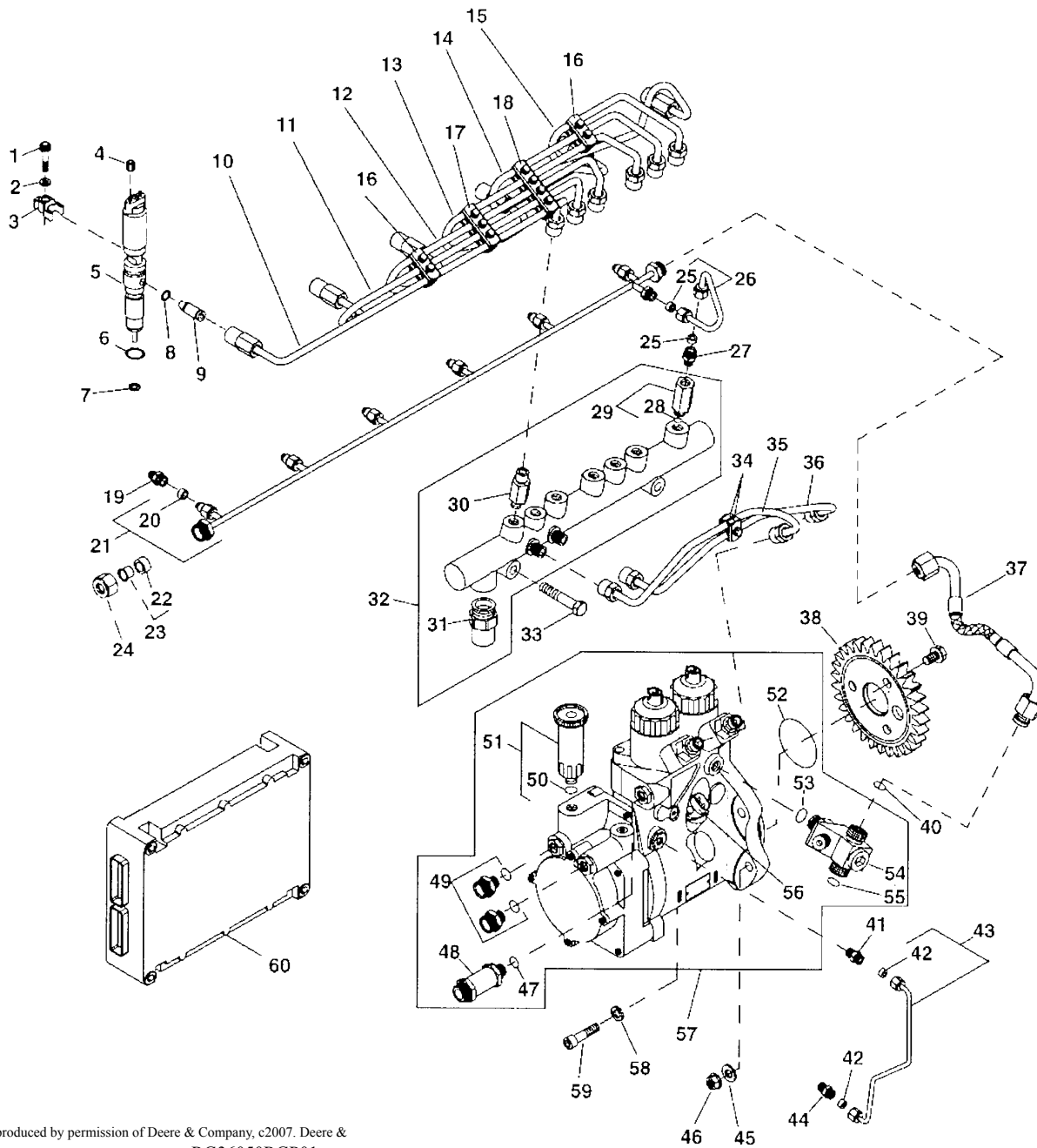


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR50411	1	Cable Assembly (without Thermostat)	-
	20-49503	1	Cable Assembly (with Thermostat)	-
2	R54123	1	Adapter	-
3	U13639	1	O-ring	-
4		1	Gasket	-
5	RE524676	1	Heating Element, 110 Volt (includes key #4)	-
6	R44302	1	Tie Band	-
7	RE227949	1	Coolant Heater, 110 Volt (includes keys 1- 6)	-

Notes

Fuel Injection System L1166, MP150C, & M175C2



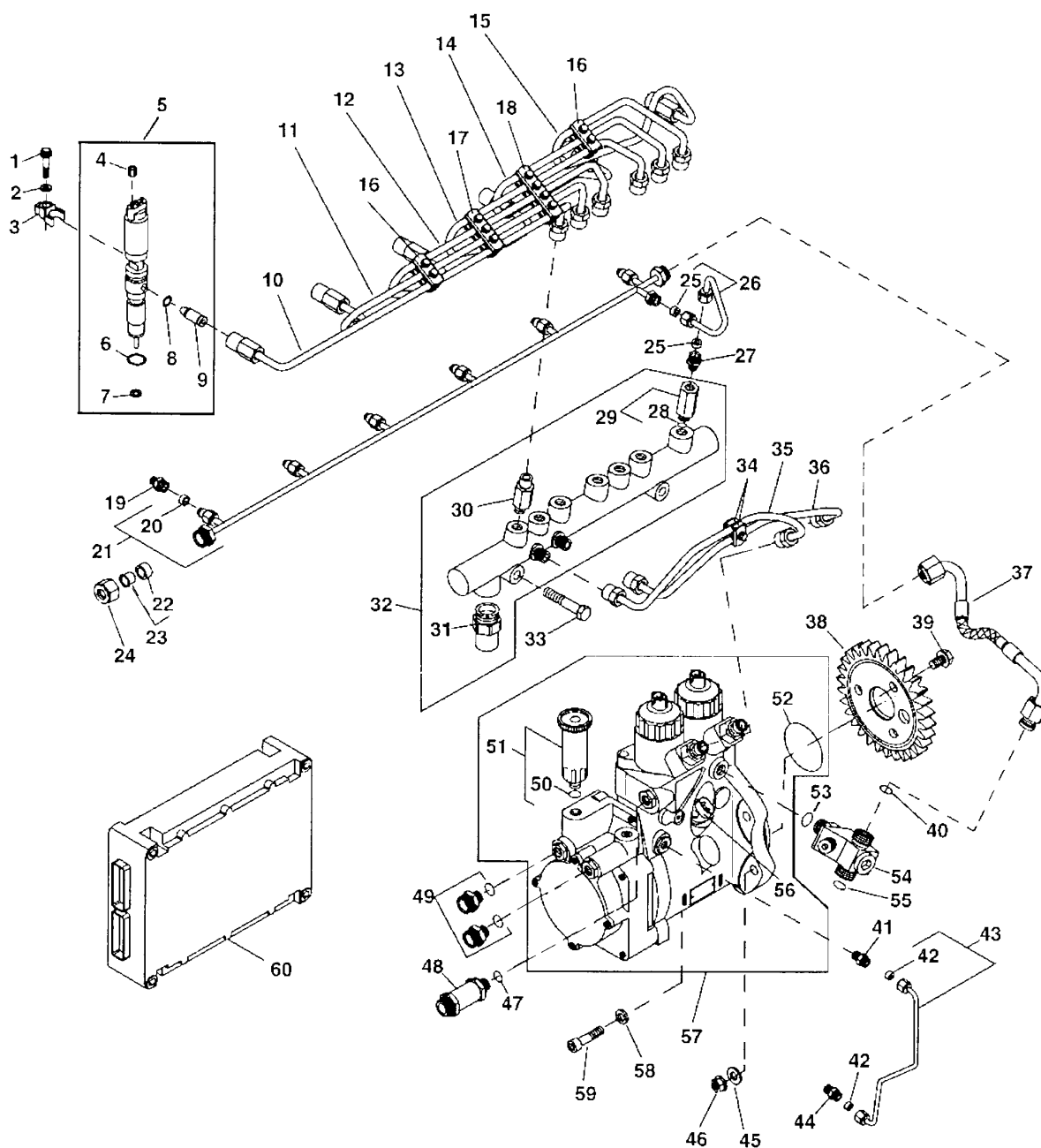
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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19H3218	6	Capscrew	-
2	R63845	6	Washer	-
3	R502602	6	Clamp	-
4	R134920	12	Nut	-
5	RE518726	6	Fuel Injector	-
6	R503578	6	Packing	-
7	R131051	6	Washer	-
8	R505570	6	O-ring	-
9	RE509416	6	Fitting	-
10	RE515524	1	Injection Line #6	-

Fuel Injection System L1166, MP150C, & M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
11	RE504017	1	Injection Line #5	-
12	RE504016	1	Injection Line #4	-
13	RE504015	1	Injection Line #3	-
14	RE504014	1	Injection Line #2	-
15	RE504013	1	Injection Line #1	-
16	RE502655	2	Clamp	-
17	RE509012	1	Clamp	-
18	RE509013	1	Clamp	-
19	RE502650	6	Fitting	-
20	R505620	6	Washer	-
21	RE521476	1	Fuel Return Manifold	-
22	R63548	2	O-ring	-
23	RE507270	2	Plug	-
24	R63552	2	Tube Nut	-
25	R51936	2	Sealing Washer	-
26	RE507003	1	Line	-
27	RE506624	1	Adapter	-
28	R515454	1	Shim	-
29	RE516335	1	Kit	-
30	RE515636	6	Restrictor	-
31	RE515636	1	Restrictor	-
32	RE521433	1	Rail	-
33	19H2699	2	Capscrew	-
34	RE502654	1	Clamp	-
35	RE505155	1	Fuel Line	-
36	RE505154	1	Fuel Line	-
37	RE521477	1	Fuel Line	-
38	R504089	1	Bevel Gear Drive	-
39	19M7783	3	Screw, M10 x 16	-
40	R505570	1	O-ring	-
41	RE503059	1	Adapter	-
42	R67264	2	Packing	-
43	RE504156	1	Oil Line	-
44	R76822	1	Fitting	-
45	24M7239	3	Washer	-
46	14H1090	3	Nut	-
47	51M7095	1	O-ring	-
48	RE520978	1	Check Valve (includes key #47)	-
49	RE522616	2	Fitting	-
50	R515456	1	Washer	-
51	RE515638	1	Hand Priming Pump (includes key #50)	-
52	R515457	1	O-ring	-
53	R519759	1	O-ring	-
54	RE522834	1	Valve	-
55	R63548	1	O-ring	-
56		1	Sensor (not available separately)	-
57	RE521422	1	Fuel Injection Pump, HPCR 12V	-
	RE521423	1	Fuel Injection Pump, HPCR 24V	-
58	24H1652	1	Washer	-
59	19H3124	1	Screw, 3/8" x 1- 1/2"	-
60	26-9250300H375	1	Engine Controller 12/24V L1166*	-
	26-92503006175	1	Engine Controller 12/24V M150C2 - M175C2*	-
*Serial # must be provided when ordering				

Fuel Injection System NL1166



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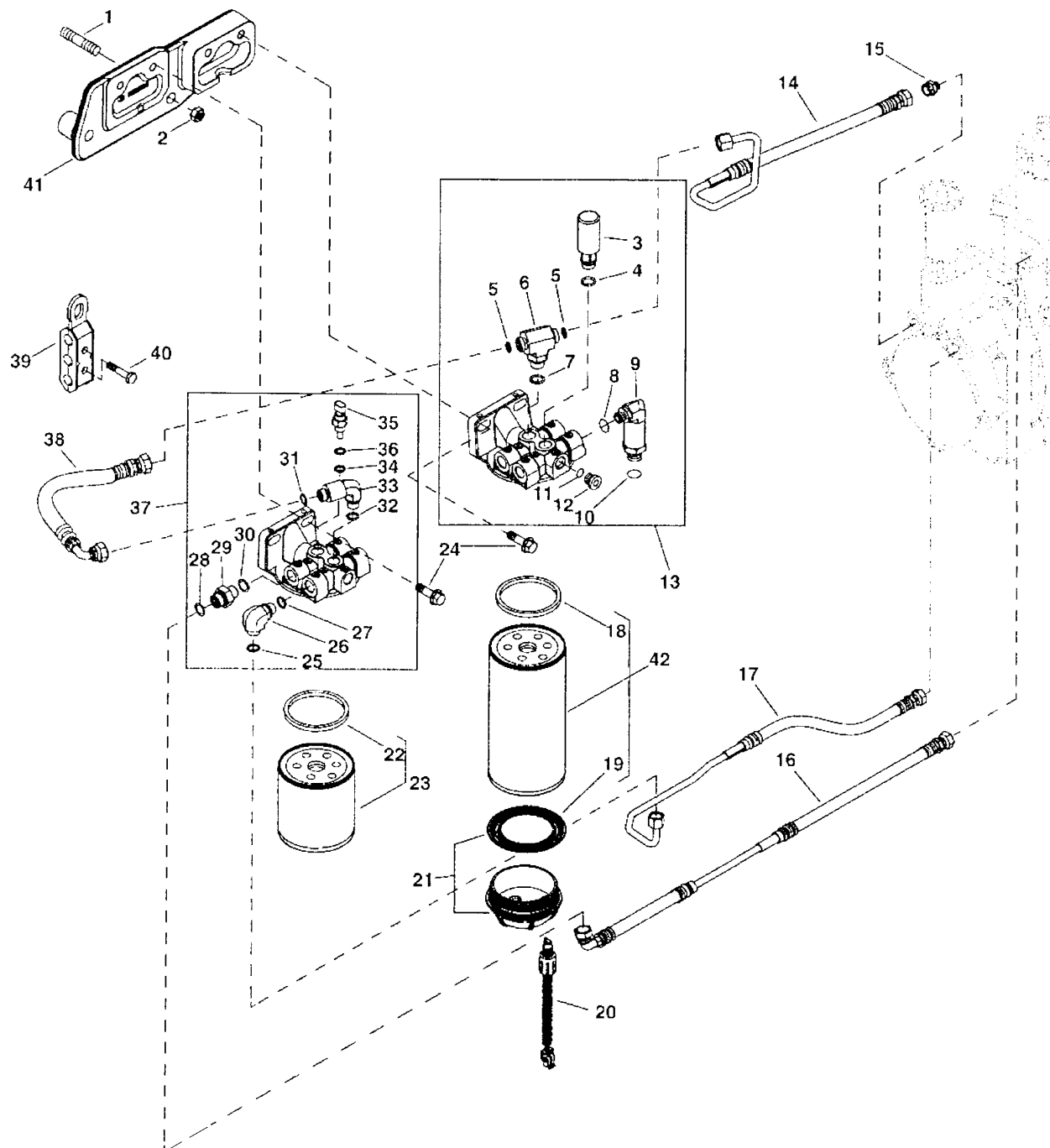
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19H3218	6	Capscrew	-
2	R63845	6	Washer	-
3	R502602	6	Clamp	-
4	R134920	12	Nut	-
5	RE524362	6	Fuel Injector	-
6	R503578	6	Packing	-
7	R131051	6	Washer	-

Fuel Injection System NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
8	R135526	6	O-ring	-
9	RE509416	6	Fitting	-
10	RE515524	1	Injection Line #6	-
11	RE504017	1	Injection Line #5	-
12	RE504016	1	Injection Line #4	-
13	RE504015	1	Injection Line #3	-
14	RE504014	1	Injection Line #2	-
15	RE504013	1	Injection Line #1	-
16	RE502655	2	Clamp	-
17	RE509012	1	Clamp	-
18	RE509013	1	Clamp	-
19	RE502650	6	Fitting	-
20	R505620	6	Washer	-
21	RE521476	1	Fuel Return Manifold	-
22	R63548	2	O-ring	-
23	RE507270	2	Plug	-
24	R63552	2	Tube Nut	-
25	R51936	2	Sealing Washer	-
26	RE507003	1	Line	-
27	RE506624	1	Adapter	-
28	R515454	1	Shim	-
29	RE516335	1	Kit	-
30	RE515636	6	Restrictor	-
31	RE515635	1	Restrictor (substitute RE520930)	-
32	RE521433	1	Rail	-
33	19H2699	2	Capscrew	-
34	RE502654	1	Clamp	-
35	RE505155	1	Fuel Line	-
36	RE505154	1	Fuel Line	-
37	RE521477	1	Fuel Line	-
38	R504089	1	Bevel Gear Drive	-
39	19M7783	3	Screw, M10 x 16	-
40	R135526	1	O-ring	-
41	RE503059	1	Adapter Fitting	-
42	R67264	2	Packing	-
43	RE504156	1	Oil Line	-
44	R76822	1	Fitting	-
45	24M7239	3	Washer	-
46	14H1090	3	Nut	-
47	51M7095	1	O-ring	-
48	RE520978	1	Check Valve (includes key #47 & 55)	-
49	RE522616	2	Fitting	-
50	R515456	1	Washer	-
51	RE515638	1	Hand Priming Pump (includes key #50)	-
52	R515457	1	O-ring	-
53	R519759	1	O-ring	-
54	RE522834	1	Valve	-
55	R63548	1	O-ring	-
56	RE524660	1	Sensor (marked RE524654)	-
57	RE521422	1	Fuel Injection Pump, HPCR 12 Volt	-
	RE521423	1	Fuel Injection Pump, HPCR 24 Volt	-
58	24H1652	1	Washer	-
59	19H3124	1	Screw, 3/8" x 1- 1/2"	-
60	26-9250300C250	1	Engine Controller (serial # must be provided when ordering)	-

Fuel Filter

L1166, MP150C, and M175C2



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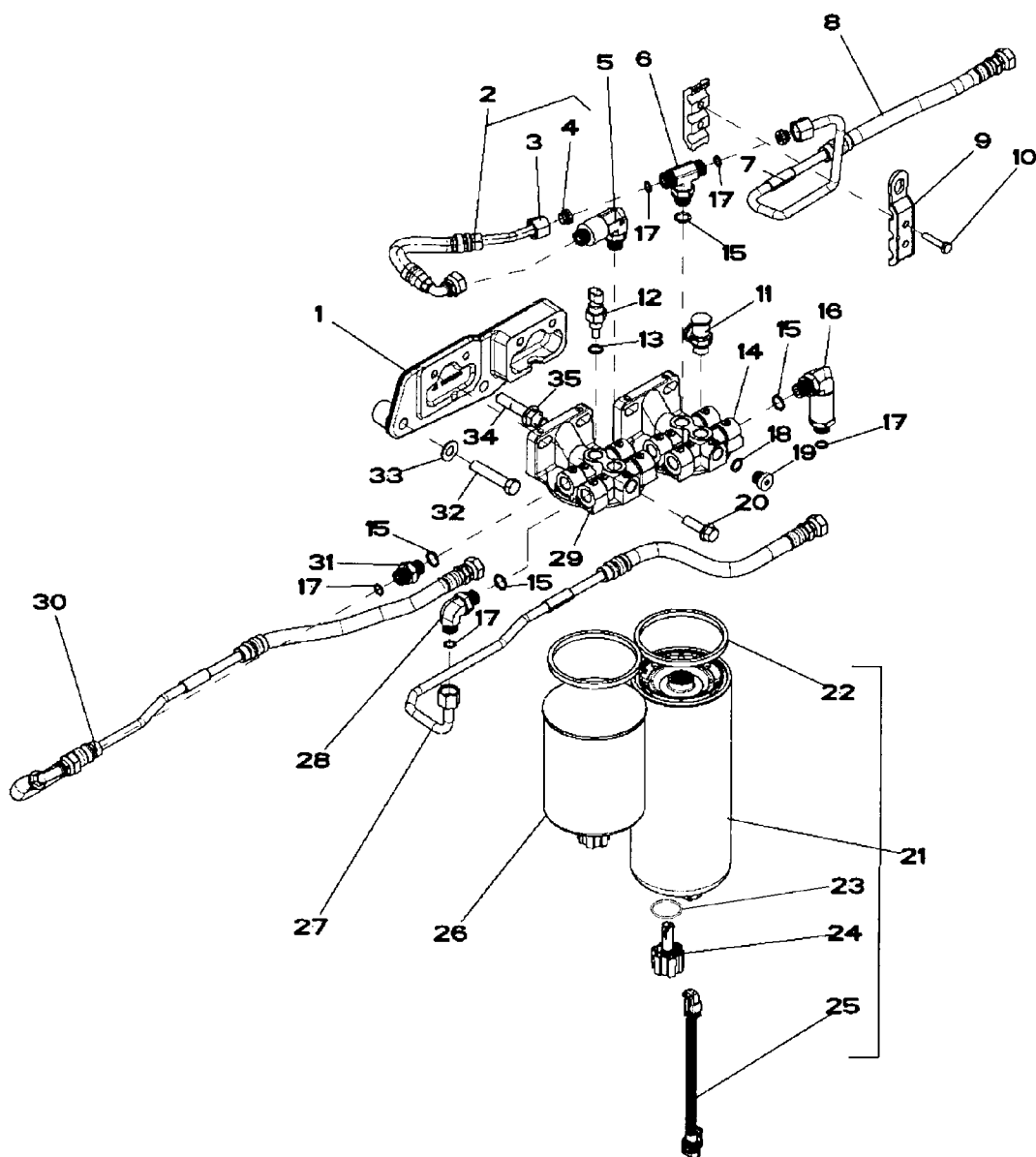
Fuel Filter

L1166, MP150C, and M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R504516	1	Stud	-
2	14H1059	1	Nut	-
3	RE523578	1	Diagnostic Coupling	-
4	51M7095	1	O-ring	-
5	51M7096	2	O-ring	-
6	RE522143	1	Adapter	-
7	R63548	1	O-ring	-
8	R63548	1	O-ring	-
9	RE520968	1	Check Valve	-
10	51M7096	1	O-ring	-
11	51M7096	1	O-ring	-
12	RE522144	1	Drain Plug	-
13	RE520967	1	Filter Head	-
14	RE520972	1	Fuel Line	-
15	R518563	1	Sleeve	-
16	RE520981	1	Fuel Line	-
17	RE520975	1	Fuel Line	-
18	R501388	1	Packing	-
19	R501632	1	Packing	-
20	RE506194	1	Sensor	-
21	RE503677	1	Sediment Bowl	-
22	R501388	1	Packing	-
23	RE506428	1	Final Filter Element (2 Micron)	-
24	19H3693	4	Screw, 3/8" x 1- 1/4"	-
25	R63548	1	O-ring	-
26	RE522145	1	Adapter	-
27	51M7096	1	O-ring	-
28	R63548	1	O-ring	-
29	RE522518	1	Fitting	-
30	51M7096	1	O-ring	-
31	R63548	1	O-ring	-
32	51M7096	1	O-ring	-
33	RE520971	1	Control Valve	-
34	51M7041	1	O-ring	-
35	RE48419	1	Sensor	-
36	51M7095	1	O-ring	-
37	RE520969	1	Filter Head	-
38	RE521473	1	Fuel Line	-
39	RE509668	1	Clamp	-
40	19H1791	2	Capscrew, 1/4" x 1- 1/4"	-
41	R518524	1	Bracket	-
42	RE503676	1	Primary Filter Element (10 Micron, includes keys #18 -19)	-

Fuel Filter

NL1166



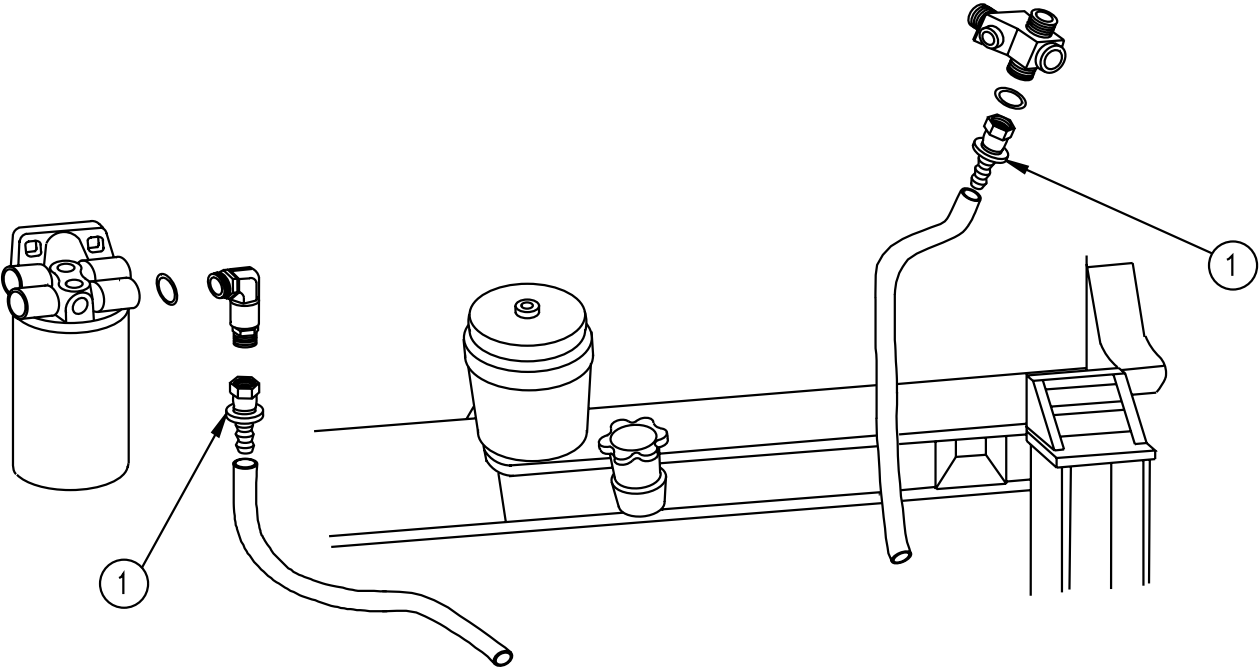
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Fuel Filter

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R51824	1	Bracket	-
2	RE521473	1	Fuel Line	-
3	38H1353	1	Tube Nut	-
4	38H1132	1	Shoulder Fitting (order RE521473)	-
5	RE520971	1	Control Valve	-
6	RE522143	1	Adapter Fitting	-
7	R518563	1	Hose Guard	-
8	RE520972	1	Fuel Line	-
9	RE509668	1	Clamp	-
10	19H1791	2	Capscrew	-
11	RE523578	1	Diagnostic Coupling	-
12	RE48419	1	Sensor	-
14	RE520967	1	Filter Head	-
15	51M7096	1	O-ring	-
16	RE520968	1	Check Valve	-
17	R63548	1	O-ring	-
18	51M7095	1	O-ring	-
19	RE522144	1	Drain Plug	-
20	19H3693	4	Screw	-
21	RE531703	1	Fuel Filter, Primary (includes keys #22- 25)	-
22	R519483	1	Packing	-
23	51M7095	1	O-ring	-
24	RE522686	1	Drain Valve	-
25	RE522685	1	Moisture Sensor	-
26	RE522688	1	Fuel Filter, Final	-
27	RE520981	1	Fuel Line	-
28	RE522145	1	Adapter Fitting	-
29	RE520969	1	Filter Head	-
30	RE520975	1	Fuel Line	-
31	RE522518	1	Fitting	-
32	19H2678	1	Capscrew, 7/16" x 2- 1/8"	-
33	24H1325	1	Washer	-
34	R504516	1	Stud	-
35	14H1059	1	Nut	-
36	R519483	1	Packing	-

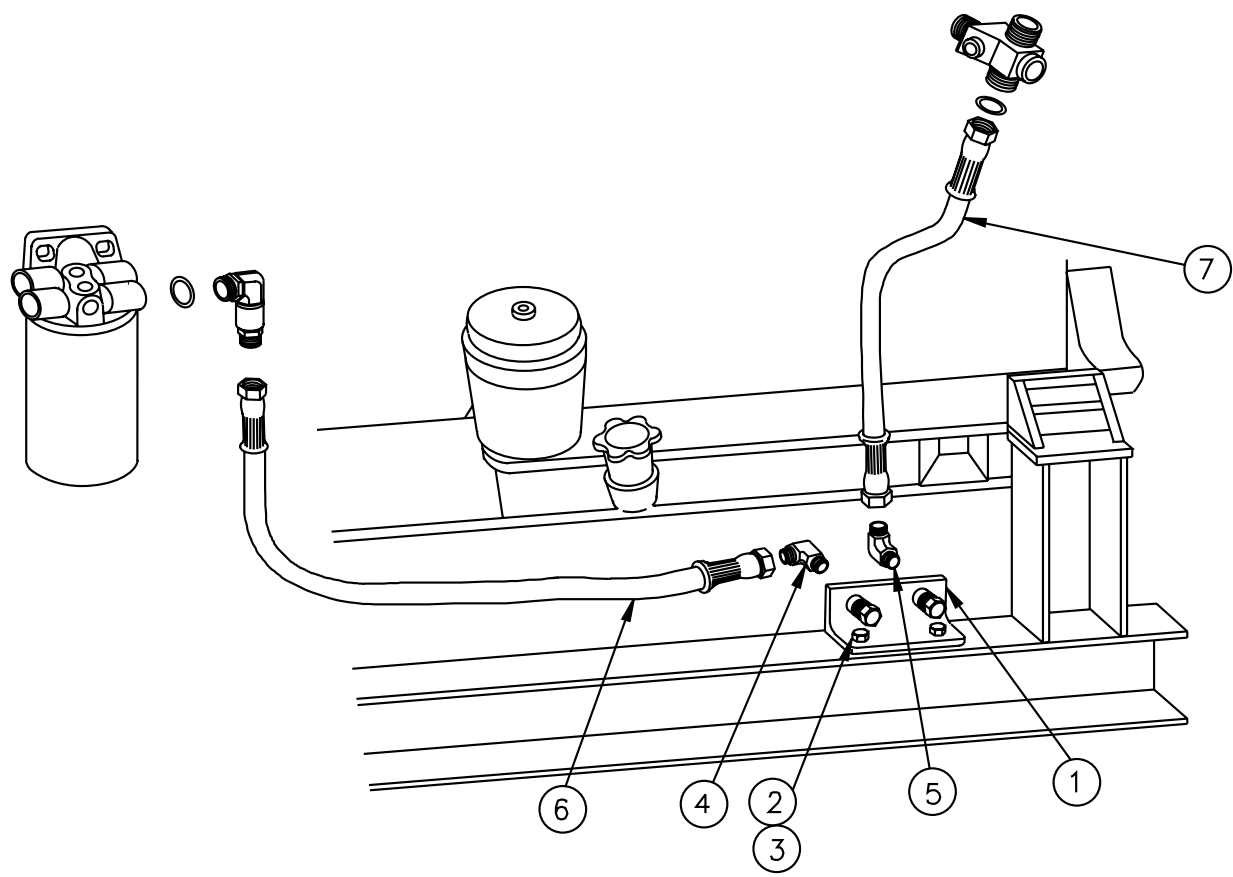
Push-on Fuel Lines Kit



A-10520/ B-9125

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-52503	2	Female Swivel, Steel 3/8 HB x 3/8	-

USCG Fuel Lines

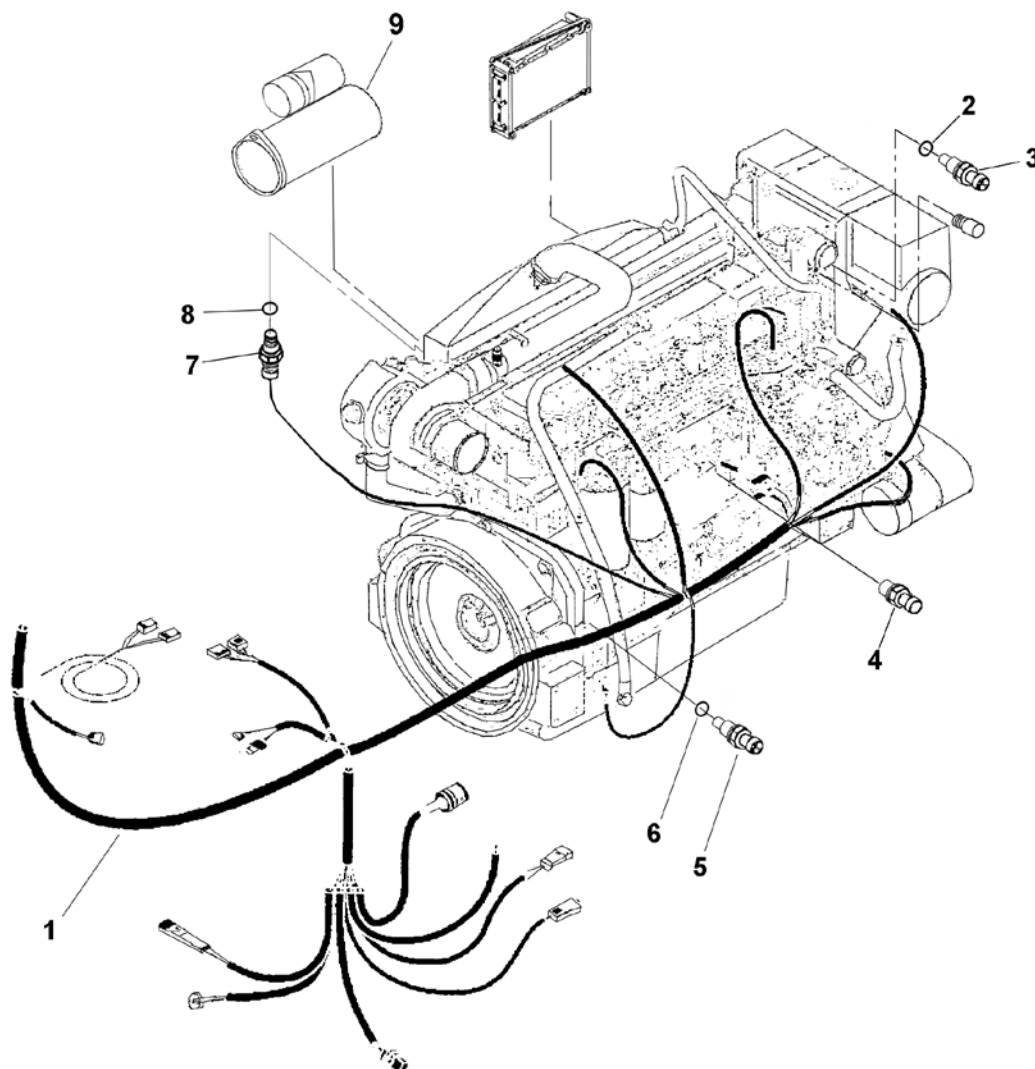


A-10520/ B-9125

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-51098	1	Bracket	-
2	12-00111	2	Capscrew, Hex Head 1/2- 20 x 3/4"	-
3	14-00112	2	Hex Nut, Nylock 1/4- 20	-
4	21-00606	1	Male Elbow, 90° Steel 3/8 NPT x 3/8- 37T	-
5	21-00606	1	Male Elbow, 90° Steel 3/8 NPT x 3/8- 37T	-
6	18-52504	1	Hose Assembly, 3/8" ID x 29"	-
7	18-52505	1	Hose Assemby, 3/8" ID x 27"	-

Engine Electrical System 12 Volt Standard Ground

L1166A



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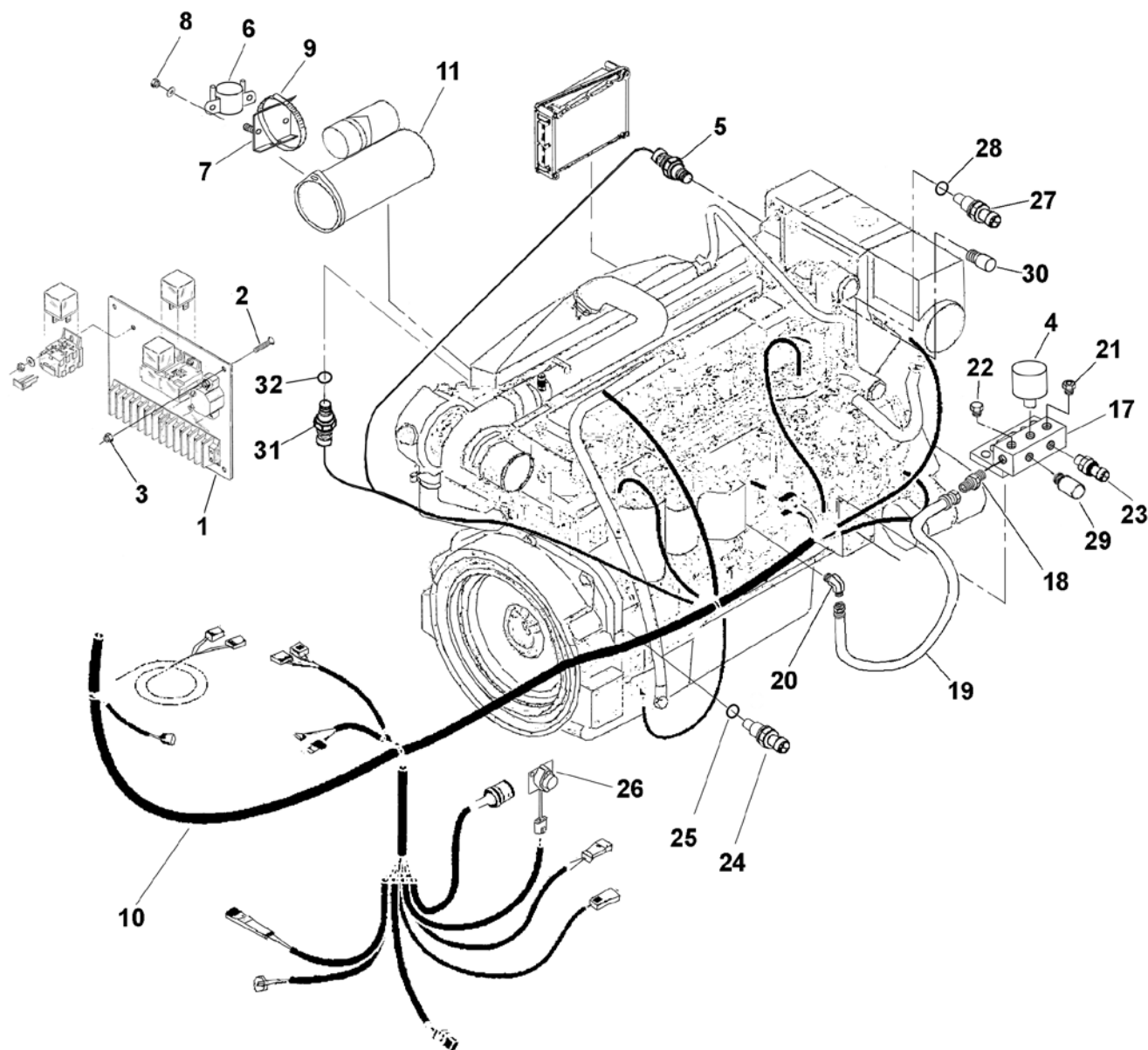
Engine Electrical System 12 Volt Standard Ground

L1166A

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE522569	1	Wire Harness (see parts detail)	-
2	RE151433	1	Temperature Sensor	-
3	R77673	1	O-ring	-
4	RE167207	1	Pressure Sensor	-
5	RE519144	1	Speed Sensor	-
6	51M7044	1	O-ring	-
7	RE61812	1	Air Temperature Sensor	-
8	51M7041	1	O-ring	-
9	RE70957	1	Starter (see parts detail)	-

Engine Electrical System 12 Volt Standard Ground

MP150C & M175C2



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Engine Electrical System 12 Volt Standard Ground

MP150C & M175C2

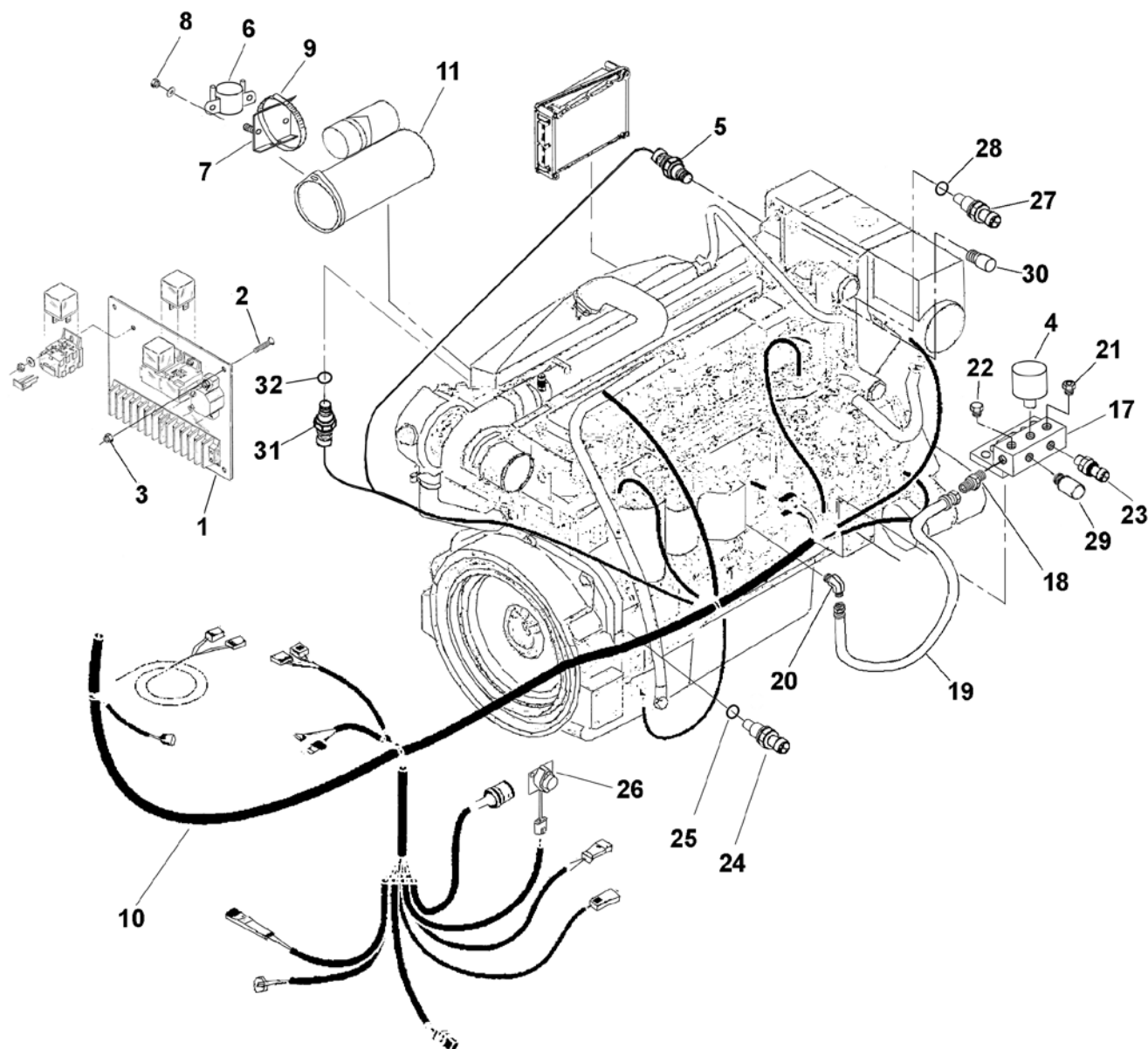
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-70083	1	Relay Board Assembly (see parts detail)	-
2	12-00001	4	Machine Screw, Phillips #10- 32 x 3/4" S/S	-
3	14-00006	4	Hex Nut, Nylock #10- 32	-
4	22-40915	1	Switch, Pressure 15 PSI	-
5	22-40904	1	Temperature Switch 205°F	-
6	22-41080	1	Solenoid 12 Volt DC 65 Amp	-
7	23-40009	1	Bracket, Solenoid Mounting	-
8	14-00112	2	Hex Nut, Nylock 1/4- 20	-
9	19-00060	1	Hose Clamp #60	-
10	RE522569	1	Engine Wire Harness	-
11	RE70957	1	Starter 12 Volt Standard Ground	-
12	24M7096	2	Washer	-
13	R114130	1	Stud	-
14	E55662	1	Flange Nut	-
15	19H3219	2	Capscrew, Hex Head 3/8- 16 x 1- 3/8" } Starter mounting	-
16	21-12508	1	Plug, Socket Head Steel 5/16 O-ring Port	-
17	10-40001	1	Manifold, Oil Pressure	-
18	21-74406	1	Male Connector, Steel 1/4 NPT x 1/4- 37T	-
19	18-55405	1	Hose Assembly 1/4" ID x 9"	-
20	21-15710	1	Male Elbow, 90° Steel Long 1/8 NPT x 1/4- 37T	-
21	21-00132	**	Bushing, Brass 1/4 NPT x 1/8 NPT	-
22	21-31624	**	Plug, Hex Head Brass 1/4 NPT	-
23	RE167207	1	Pressure Sensor	-
24	RE519144	1	Speed Sensor	-
25	51M7044	2	O-ring	-
26	AT157679	1	Transient Voltage Protector 12 Volt*	-
27	RE151433	1	Coolant Temperature Sensor	-
28	R77673	1	O-ring	-
29	22-41016	1	Oil Pressure Sender	-
30	22-41026	1	Coolant Temperature Sender	-
31	RE61812	1	Air Temperature Sensor	-
32	16-00005	1	O-ring	-

* Included in 12V/ 65 Amp Alternator AT173624 or used as required with optional alternators

**As required

Engine Electrical System 24 Volt Standard Ground

MP150C & M175C2



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Engine Electrical System 24 Volt Standard Ground

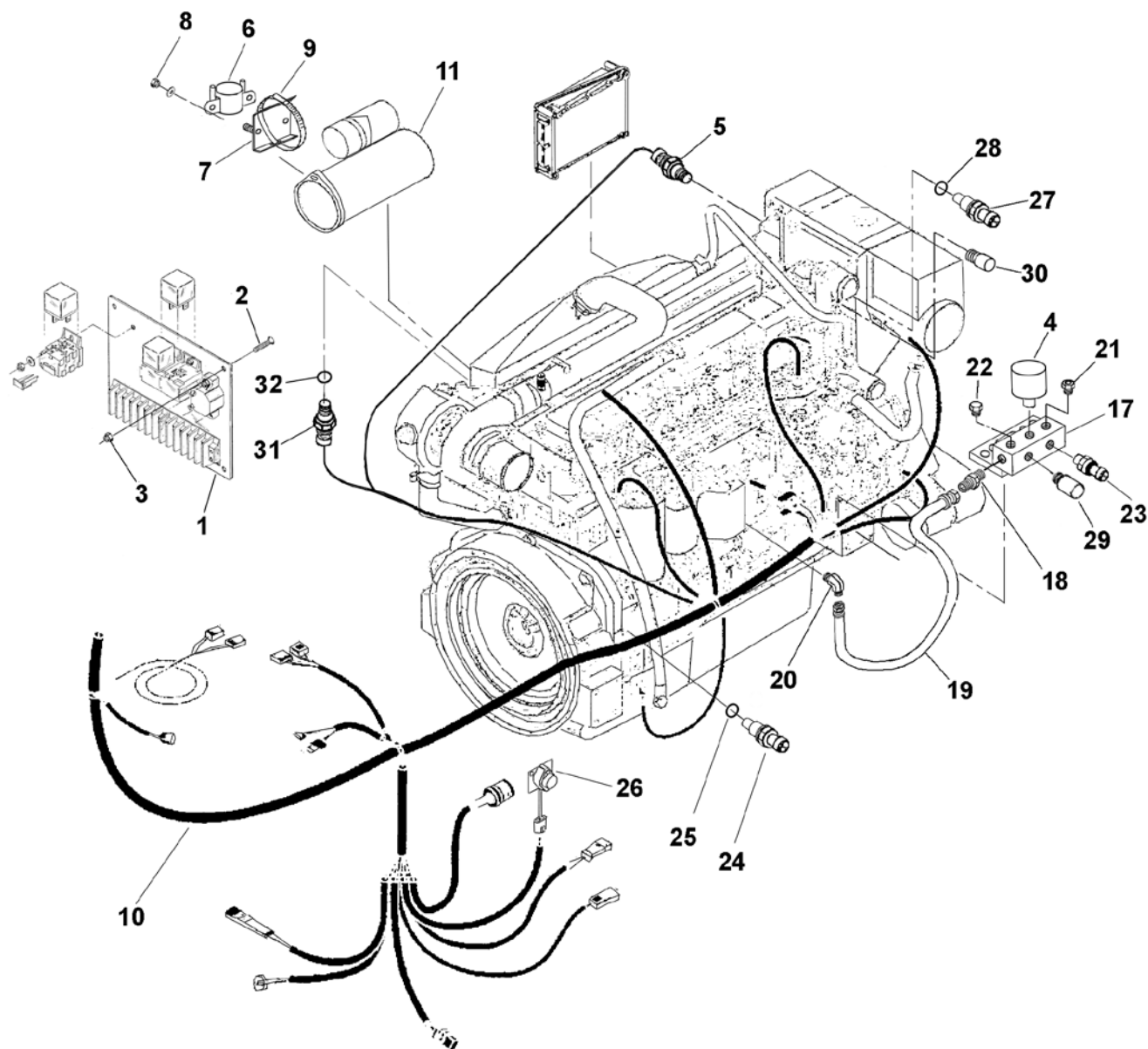
MP150C & M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-70083	1	Relay Board Assembly (see parts detail)	-
2	12-00001	4	Machine Screw, Phillips #10- 32 x 3/4" S/S	-
3	14-00006	4	Hex Nut, Nylock #10- 32	-
4	22-40915	1	Switch, Pressure 15 PSI	-
5	22-40904	1	Temperature Switch 205°F	-
6	22-41079	1	Solenoid 24 Volt DC 65 Amp	-
7	23-40009	1	Bracket, Solenoid Mounting	-
8	14-00112	2	Hex Nut, Nylock 1/4- 20	-
9	19-00060	1	Hose Clamp #60	-
10	RE522569	1	Engine Wire Harness	-
11	RE501150	1	Starter 24 Volt Standard Ground	-
12	24M7096	2	Washer	-
13	R114130	1	Stud	} Starter mounting
14	E55662	1	Flange Nut	
15	19H3219	2	Capscrew, Hex Head 3/8- 16 x 1- 3/8"	
16	21-12508	1	Plug, Socket Head Steel 5/16 O-ring Port	-
17	10-40001	1	Manifold, Oil Pressure	-
18	21-74406	1	Male Connector, Steel 1/4 NPT x 1/4- 37T	-
19	18-55405	1	Hose Assembly 1/4" ID x 9"	-
20	21-15710	1	Male Elbow, 90° Steel Long 1/8 NPT x 1/4- 37T	-
21	21-00132	**	Bushing, Brass 1/4 NPT x 1/8 NPT	-
22	21-31624	**	Plug, Hex Head Brass 1/4 NPT Solid	-
23	RE167207	1	Pressure Sensor	-
24	RE519144	1	Speed Sensor	-
25	51M7044	2	O-ring	-
26	AT163022	1	Transient Voltage Protector 24 Volt	-
27	RE151433	1	Coolant Temperature Sensor	-
28	R77673	1	O-ring	-
29	22-41016	1	Oil Pressure Sender	-
30	22-41026	1	Coolant Temperature Sender	-
31	RE61812	1	Air Temperature Sensor	-
32	16-00005	1	O-ring	-

**As required

Engine Electrical System 24 Volt Isolated Ground

MP150C & M175C2



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Engine Electrical System 24 Volt Isolated Ground

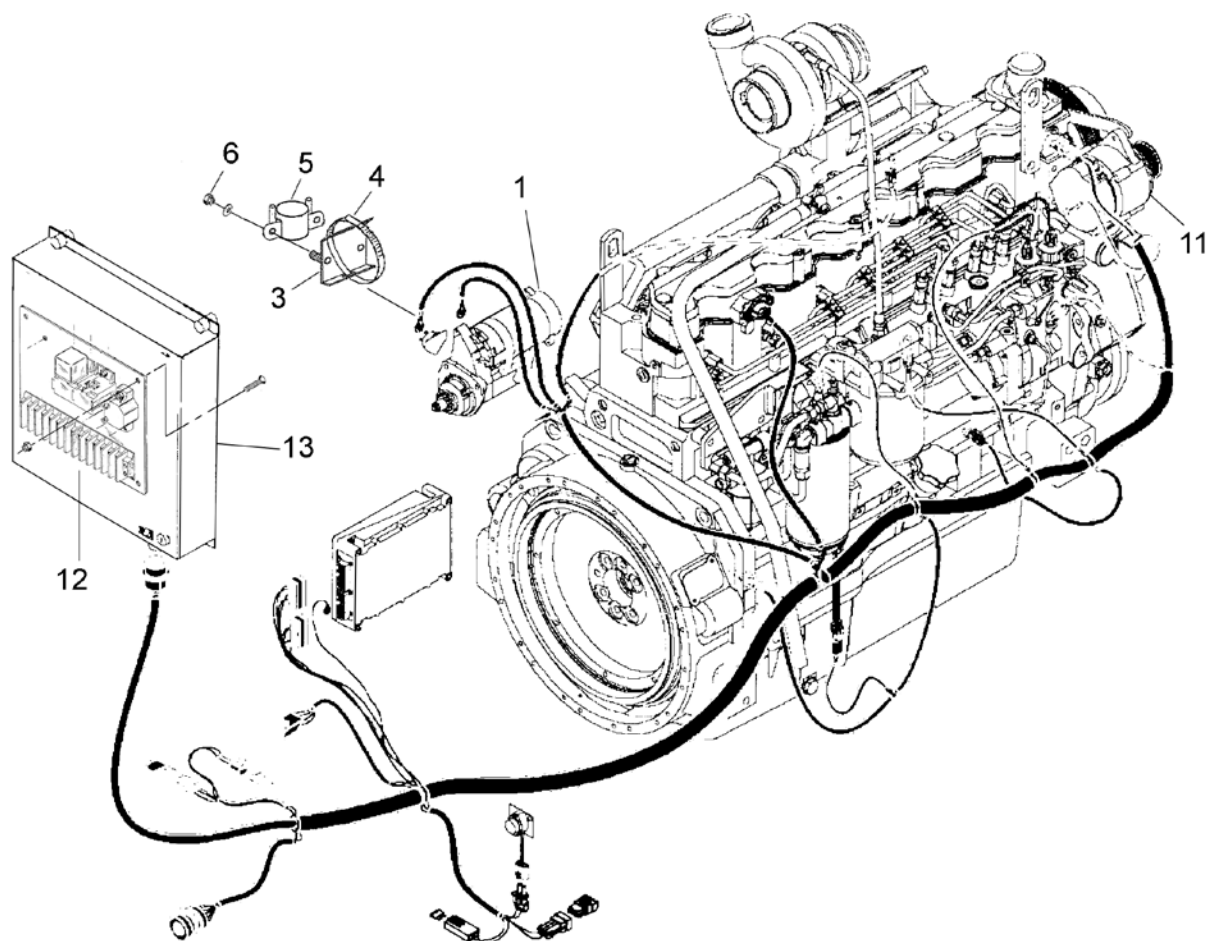
MP150C & M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-70083	1	Relay Board Assembly (see parts detail)	-
2	12-00001	4	Machine Screw, Phillips #10- 32 x 3/4" S/S	-
3	14-00006	4	Hex Nut, Nylock #10- 32	-
4	22-40915	1	Switch, Pressure 15 PSI	-
5	22-40904	1	Temperature Switch 205°F	-
6	22-41079	1	Solenoid 24 Volt DC 65 Amp	-
7	23-40009	1	Bracket, Solenoid Mounting	-
8	14-00112	2	Hex Nut, Nylock 1/4- 20	-
9	19-00060	1	Hose Clamp #60	-
10	RE522569	1	Engine Wire Harness	-
11	22-49503	1	Starter 24 Volt Isolated Ground	-
12	24M7096	2	Washer	-
13	R114130	1	Stud	-
14	E55662	1	Flange Nut	-
15	19H3219	2	Capscrew, Hex Head 3/8- 16 x 1- 3/8" } Starter mounting	-
16	21-12508	1	Plug, Socket Head Steel 5/16 O-ring Port	-
17	10-40001	1	Manifold, Oil Pressure	-
18	21-74406	1	Male Connector, Steel 1/4 NPT x 1/4- 37T	-
19	18-55405	1	Hose Assembly 1/4" ID x 9"	-
20	21-15710	1	Male Elbow, 90° Steel Long 1/8 NPT x 1/4- 37T	-
21	21-00132	**	Bushing, Brass 1/4 NPT x 1/8 NPT	-
22	21-31624	**	Plug, Hex Head Brass 1/4 NPT Solid	-
23	RE167207	1	Pressure Sensor	-
24	RE519144	1	Speed Sensor	-
25	51M7044	2	O-ring	-
26	AT163022	1	Transient Voltage Protector 24 Volt	-
27	RE151433	1	Coolant Temperature Sensor	-
28	R77673	1	O-ring	-
29	22-42803	1	Oil Pressure Sender	-
30	22-42802	1	Coolant Temperature Sender	-
31	RE61812	1	Air Temperature Sensor	-
32	16-00005	1	O-ring	-

** As required

Engine Electrical System 24 Volt Standard Ground

NL1166 Power Unit



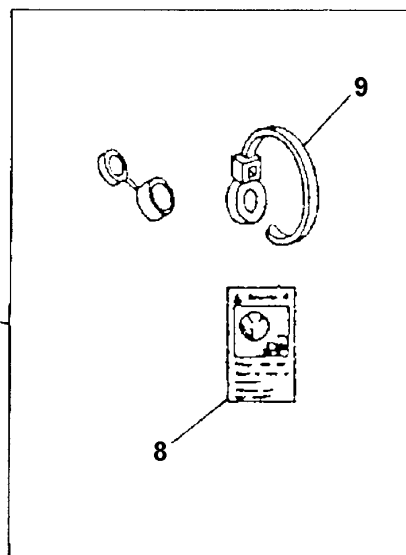
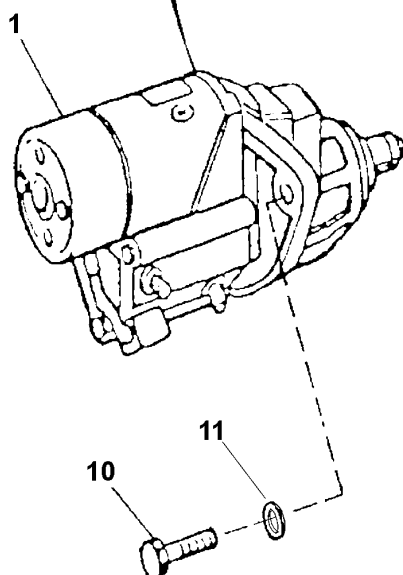
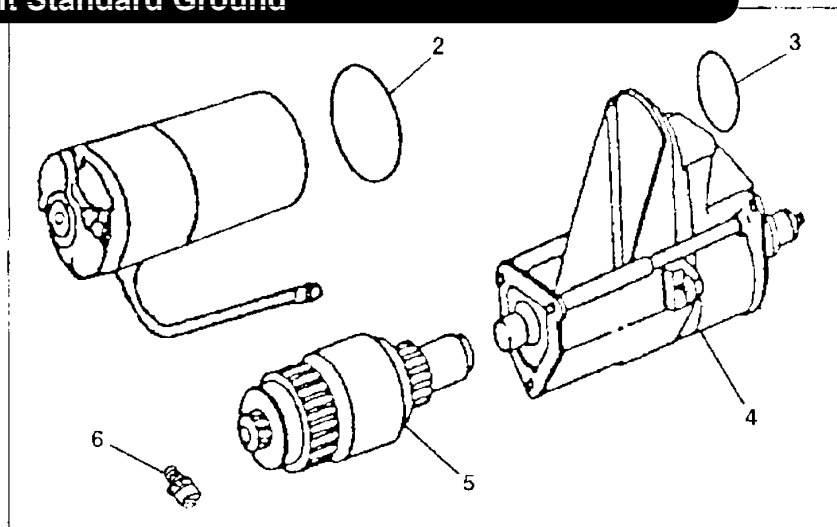
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Engine Electrical System 24 Volt Standard Ground

NL1166 Power Unit

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE501150	1	Starter 24 Volt Standard Ground	-
2	19H3219	3	Capscrew, Hex Head 3/8- 16 x 1- 3/8"	-
3	23-40009	1	Bracket, Solenoid Mounting	-
4	19-00088	1	Hose Clamp #88	-
5	22-41079	1	Solenoid 24 VDC 65 Amp N.O. Isolated Ground	-
6	14-00101	2	Lock Nut, Serrated Flange	-
7	22-40233	1	Switch, Oil Pressure 15 PSI	-
8	22-71016	1	Sender, Pressure 0- 80 PSI	-
9	22-71026	1	Sender, Temperature 250°F	-
10	22-40364	1	Switch, Temperature 235°F	-
11	ATI61324	1	Alternator 24V/ 45 Amp (see parts & mounting detail)	-
12	22-70083	1	Relay Board Assembly (see parts detail)	-
13	39-40026	1	Enclosure	-
14	22-41060	2	Diode, 6 Amp 50 Volt (not shown)	-
15	21-00133	2	Bushing, Brass 3/4 NPT x 1/4 NPT	-
16	21-00755	1	Bushing, Brass 3/4 NPT x 1/2 NPT	-
17	21-10002	1	Drain Cock, Brass 1/4 NPT	-
18	21-00023	1	Female Connector 1/8 NPT x 1/8 NPT	-
19	21-05400	1	Street Tee, Steel 1/8 NPT	-
20	22-42551	1	Sender, Magnetic	-
21	21-00023	1	Female Connector, Steel 1/8 NPT x 1/8 NPT	-
22	21-05400	1	Street Tee, Steel 1/8 NPT	-
23	22-49543	2	Resistor, 510 OHM 2 Watt	-
24	22-44813	1	Rubber Boot, Tachometer Sender Cover	-

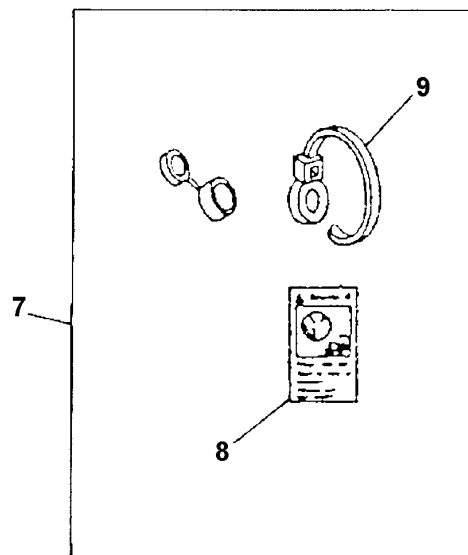
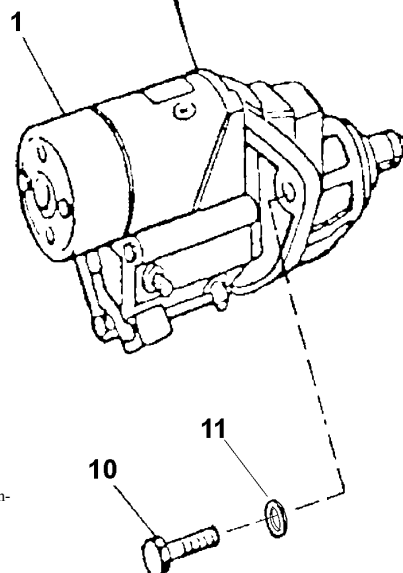
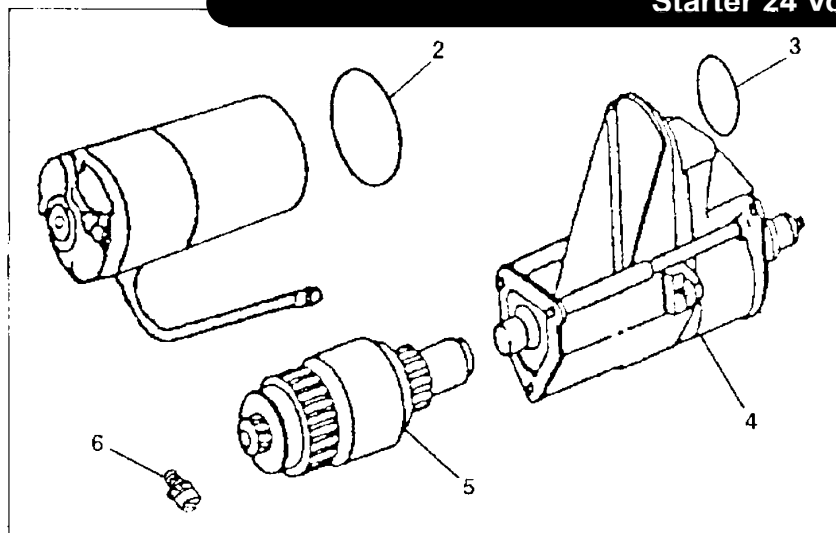
Starter 12 Volt Standard Ground



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE70957	1	Starter Motor 12 Volt (marked RE69704)	-
2	R135509	1	Seal	-
3	R135510	1	O-ring	-
4	RE70486	1	Solenoid	-
5	RE70487	1	Clutch	-
6	RE71256	1	Screw with Washer	-
7	RE70756	1	Terminal Cover (use with RE69704)	-
8	T146102	1	Label	-
9	R96703	1	Tie Band	-
10	19H3219	2	Capscrew, 3/8" x 1- 3/8"	-
11	24M7096	2	Washer	-
12	R114130	1	Stud	-
13	E55662	1	Hex Nut, Flanged 3/8- 16	-
14	R53108	1	Gasket, Starter Mounting (not shown)	-

Starter 24 Volt Standard Ground

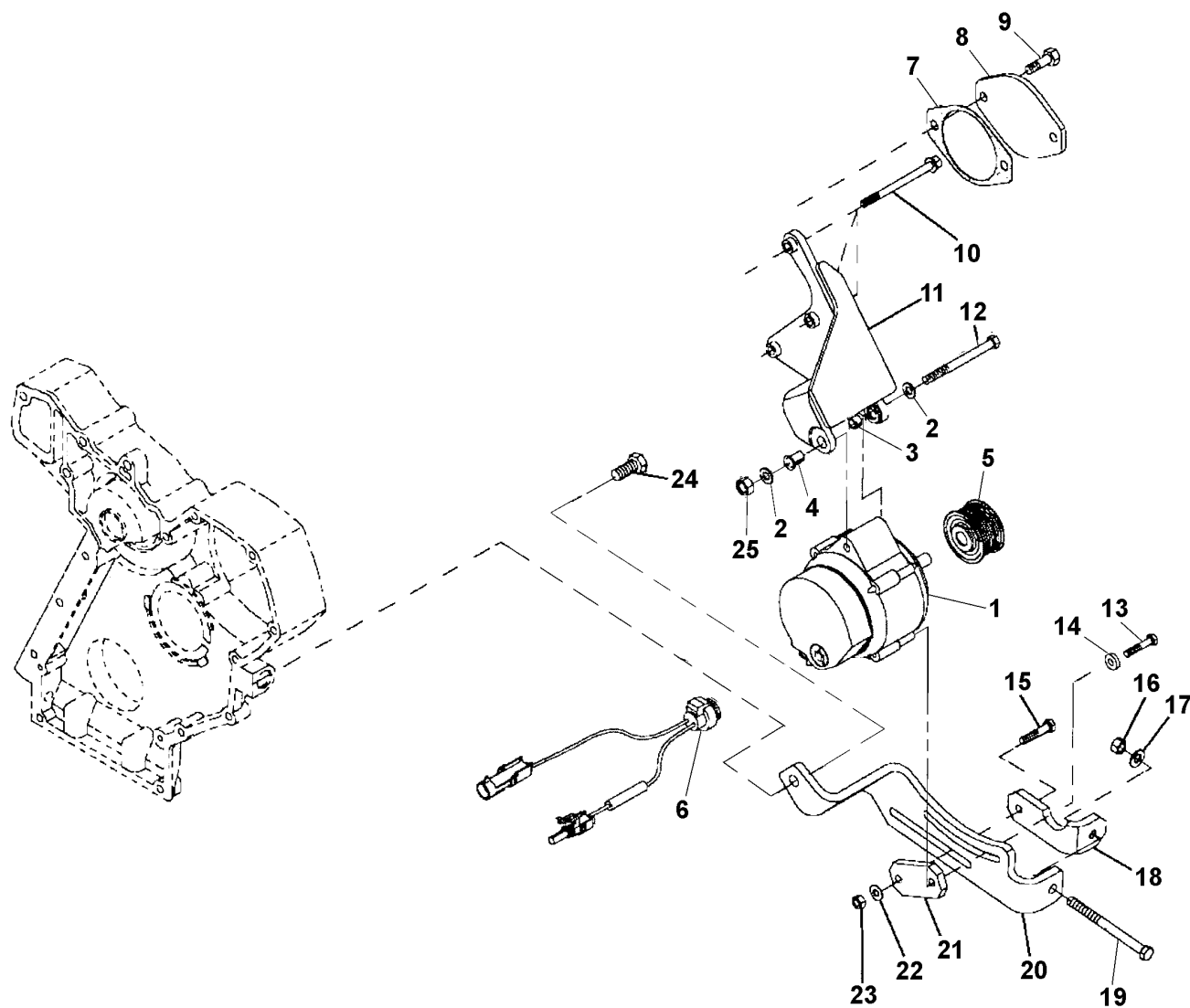


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE501150	1	Starter Motor 24 Volt (marked RE501060)	-
2	R135509	1	Seal	-
3	R135510	1	O-ring	-
4	RE70678	1	Solenoid	-
5	RE70682	1	Starter Motor Drive	-
6	RE71256	1	Screw with Washer, M5 x .8	-
7	RE70756	1	Kit	-
8	T146102	1	Label	-
9	R96703	1	Tie Band	-
10	19H3219	2	Capscrew, 3/8" x 1- 3/8"	-
11	24M7096	2	Washer	-
12	R114130	1	Stud	-
13	E55662	1	Hex Nut, Flanged 3/8- 16	-
14	R53108	1	Gasket, Starter Mounting (not shown)	-

Alternator 12 Volt/ 140 Amp

L1166



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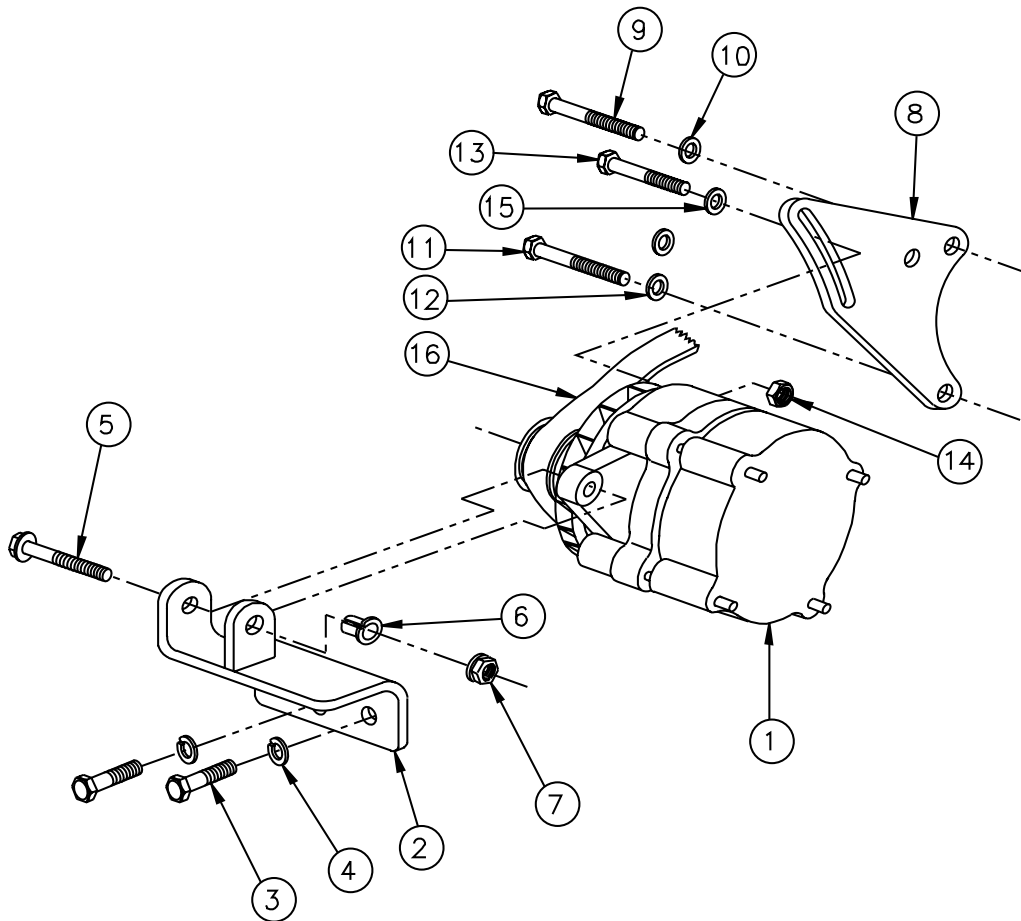
Alternator 12 Volt/ 140 Amp

L1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500226	1	Alternator 12 Volt 140 Amp (includes key #5)	-
2	24M7028	**	Washer	-
3	R135423	1	Bushing, Front	-
4	R100377	1	Bushing, Rear	-
5	R114844	1	Pulley	-
6	RE505190	1	Wiring Harness	-
7	R96935	1	Gasket	-
8	R85145	1	Cover	-
9	19H2284	2	Capscrew, 3/8" x 7/8"	-
10	R112267	3	Screw	-
11	RE504594	1	Bracket	-
12	19M7944	1	Capscrew, M10 x 120	-
13	19M7922	1	Capscrew, M8 x 40	-
14	R56397	1	Washer	-
15	19H2831	1	Capscrew, 5/16" x 1- 1/2"	-
16	14H812	1	Nut 3/8"	-
17	24H1305	1	Washer	-
18	R502408	1	Tightener	-
19	19H3118	1	Capscrew, 3/8" x 4- 1/2"	-
20	R502407	1	Bracket	-
21	R502540	1	Plate	-
22	24H1290	1	Washer	-
23	14H785	1	Nut, 5/16"	-
24	19H3385	1	Capscrew, 1/2" x 1- 1/8"	-
25	14-80811	1	Flange Nut M10	-
**As required				

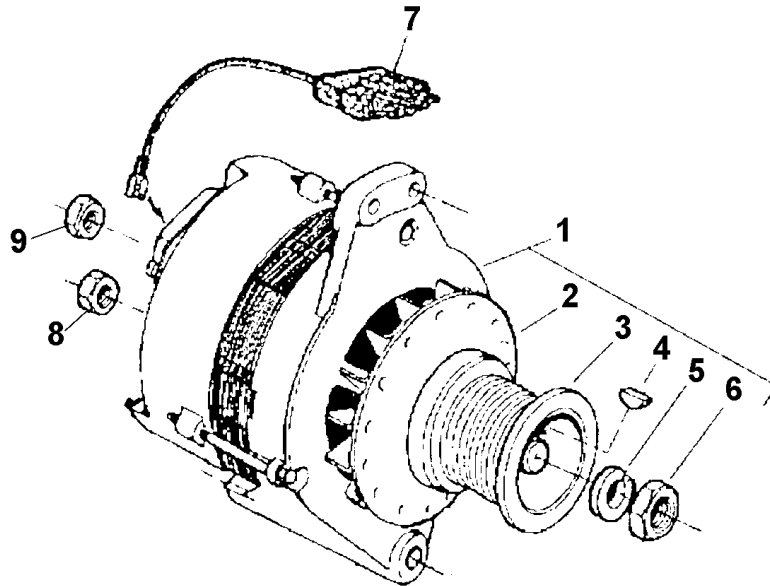
Alternator 12 Volt/ 65 Amp

M175C2



A-9326, A-4798/ B-9128

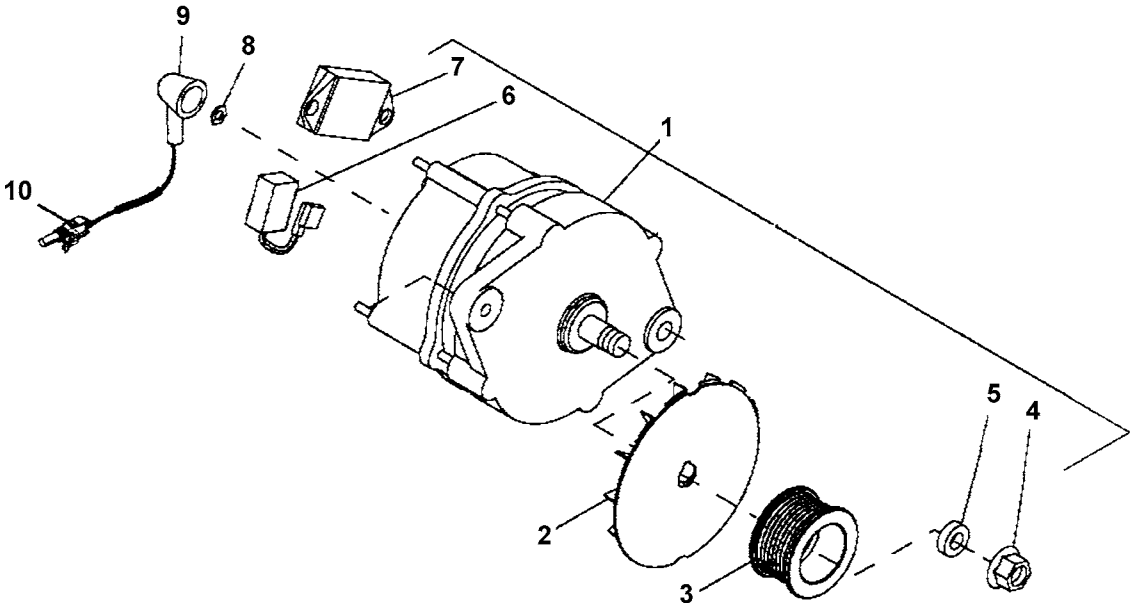
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE506196	1	Alternator 12 Volt 55 Amp	-
	AT173624	1	Alternator 12 Volt 65 Amp	-
2	23-42504	1	Bracket, Alternator Mounting	-
3	12-00513	2	Capscrew, Hex Head 1/2- 13 x 1- 1/4"	-
4	15-00502	2	Lock Washer, Helical 1/2"	-
5	19M7812	1	Capscrew, Hex Head Flanged M10 x 1.5 x 100 mm	-
6	R100377	1	Bushing	-
7	14-80811	1	Hex Nut, Flanged M10 x 1.5	-
8	23-42503	1	Tensioning Arm	-
9	12-00356	1	Capscrew, Hex Head 3/8- 16 x 4- 1/4"	-
10	15-00321	1	Flat Washer 3/8" SAE	-
11	12-00250	1	Capscrew, Hex Head 5/16- 18 x 4- 1/2"	-
12	15-00221	2	Flat Washer 5/16" SAE	-
13	12-00708	1	Capscrew, Hex Head M8 x 1.25 x 45 mm	-
14	14-04802	1	Hex Nut, Nylock M8 x 1.25	-
15	15-00201	1	Stud Washer 5/16	-
16	40-42505	1	Drive Belt (use with 12 Volt 55 Amp Alternator)	-
	40-42506	1	Drive Belt (use with 12 Volt 65 Amp Alternator)	-

Alternator 12 Volt/ 55 Amp

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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE506196	1	Alternator 12 Volt 55 Amp	-
2	T158584	1	Fan	-
3	R501192	1	Pulley	-
4		1	Shaft Key	-
5	12H317	1	Lock Washer	-
6	14M7156	1	Nut, M14	-
7	RE506322	1	Electrical Connector Assembly	-
8	14M7265	1	Lock Nut, M5	-
9	14M7165	1	Lock Nut, M6	-

Alternator , Medium Frame 12 Volt 65 Amp

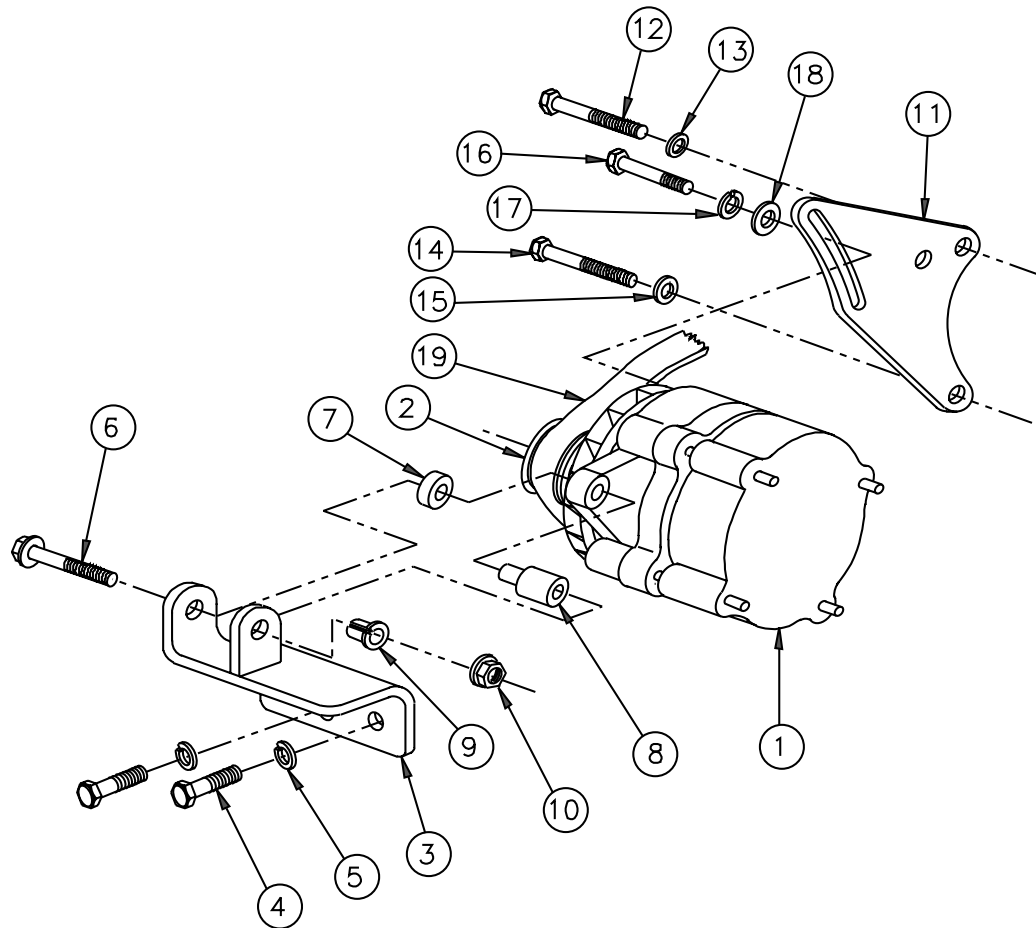


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AT173624	1	Alternator, 12 Volt 65 Amp (includes keys #2- 7)	-
2	T158584	1	Fan	-
3	R501486	1	Pulley	-
4	14M7158	1	Nut	-
5	T10745	1	Washer	-
6	H144095	1	Capacitor	-
7	H144094	1	Voltage Regulator	-
8	14M7297	1	Nut, M5	-
9	RE505489	1	Wiring Harness	-

Alternator , Medium Frame

24V/ 35 Amp , 24V/ 40 Amp

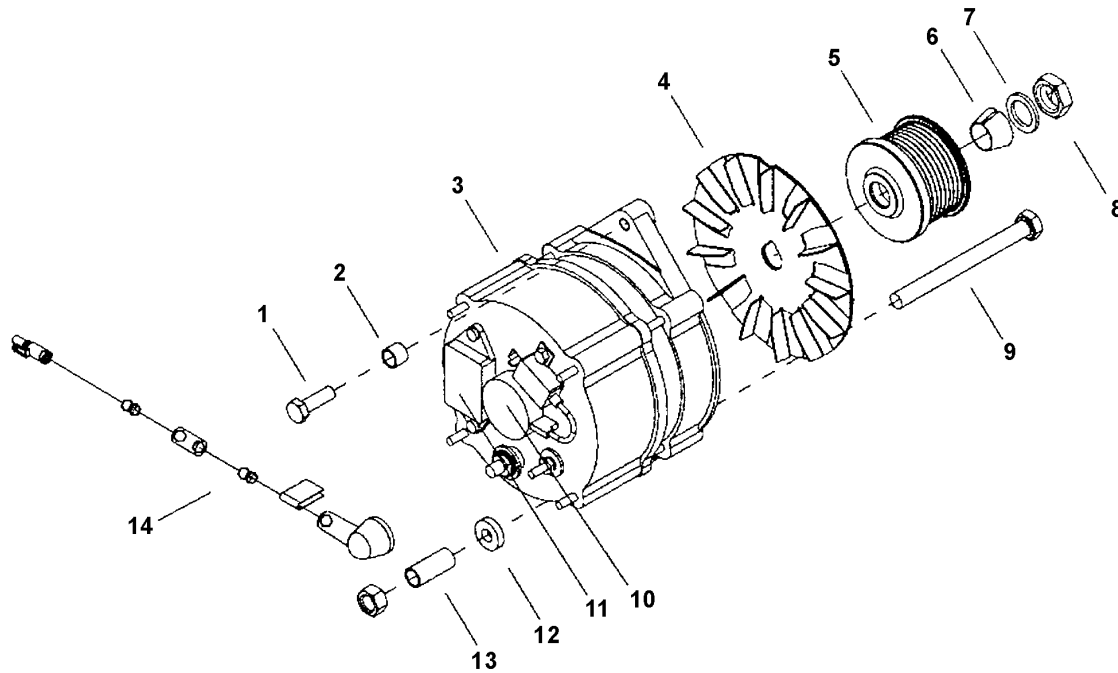


A-9358, A-11365/ B-9217

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-71052	1	Alternator 24 Volt 35 Amp	-
	22-40278	1	Alternator 24 Volt 40 Amp	-
2	34-49502	1	Pulley, 8 Groove	-
3	23-42504	1	Bracket	-
4	12-00513	2	Capscrew, Hex Head 1/2- 13 x 1- 1/4"	-
5	15-00502	2	Lock Washer, Helical 1/2"	-
6	19M7812	1	Capscrew, Hex Head Flanged M10 x 1.5 x 100 mm	-
7	21-49502	1	Spacer	-
8	31-49501	1	Adapter	-
9	R100377	1	Bushing	-
10	14-80811	1	Hex Nut, Flanged M10 x 1.5	-
11	23-42505	1	Tensioning Arm	-
12	12-00356	1	Capscrew, Hex Head 3/8- 16 x 4- 1/4	-
13	15-00321	1	Flat Washer, 3/8" SAE	-
14	12-00250	1	Capscrew, Hex Head 5/16- 18 x 4- 1/2	-
15	15-00221	2	Flat Washer, 5/16" SAE	-
16	12-00212	1	Capscrew, Hex Head 5/16- 18 x 1"	-
17	15-00202	1	Lock Washer, Helical 5/16	-
18	15-00201	1	Stud Washer 5/16	-
19	40-42505	1	Drive Belt	-

Alternator 24 Volt/ 45 Amp

NL1166

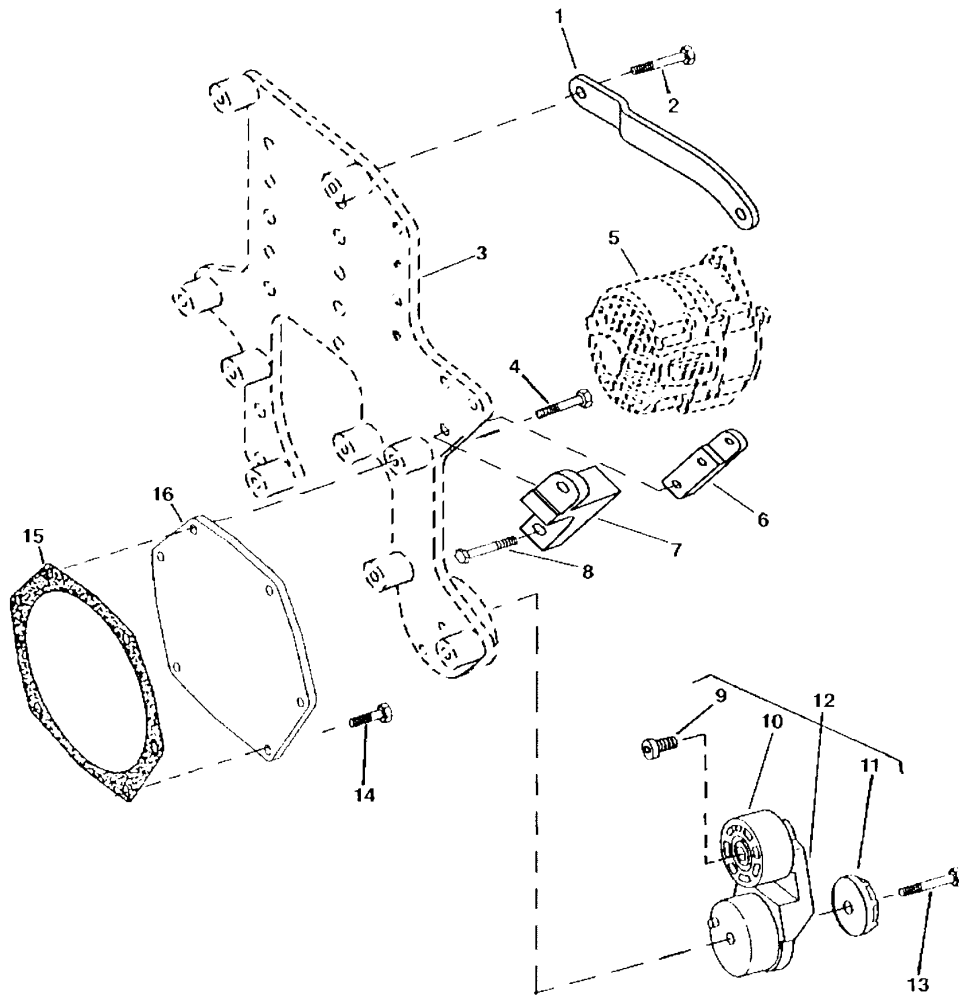


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19M7163	1	Capscrew	-
2	W26301	1	Bushing	-
3	AT161324	1	Alternator, 24 Volt/ 45 Amp	-
	TY24322	1	Alternator, 24 Volt/ 45 Amp (remanufactured)	-
4	T158584	1	Fan	-
5	R94350	1	Pulley	-
6	R94351	1	Bushing	-
7	T10745	1	Washer	-
8	14M7158	1	Nut	-
9	19M8166	1	Capscrew	-
10	H144095	1	Capacitor 24 V	-
11	AT163156	1	Voltage Regulator 24 V	-
12	R56397	1	Washer	-
13	T50036	1	Bushing	-
14	RE505489	1	Wiring Harness	-

Alternator 24 Volt/ 45 Amp

NL1166

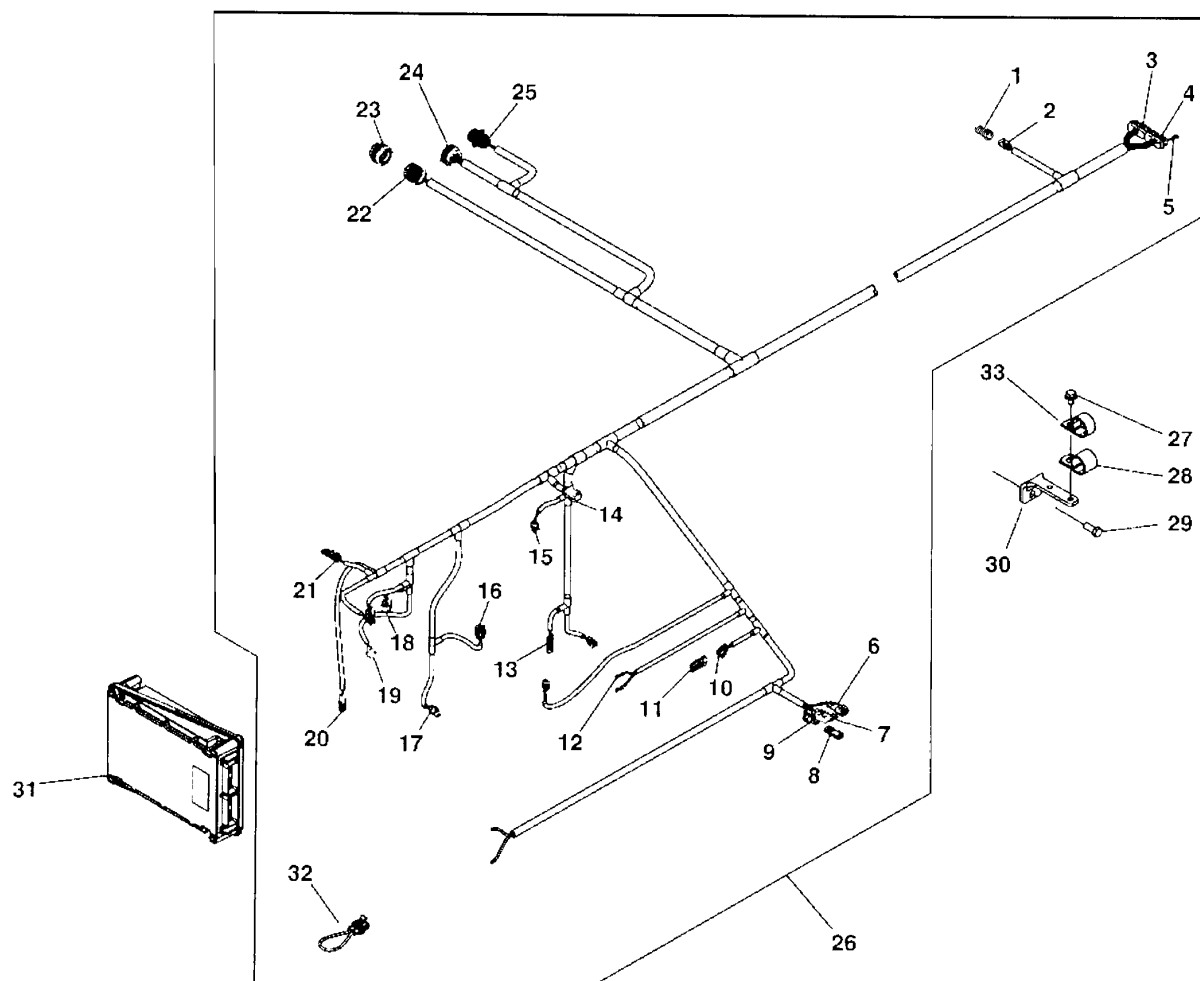


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R519288	1	Strap (not as shown, replacement for R130551)	-
2	19H3773	1	Screw, 3/8" x 2"	-
3	R129875	1	Plate	-
4	R104861	5	Screw	-
5	AT161324	1	Alternator	-
6	R519289	1	Bracket	-
	R131002	1	Support	-
	19H3771	1	Screw, 3/8" x 1"	-
	R124963	1	Screw	-
7	R127403	1	Bracket	-
8	19H3217	2	Capscrew, 3/8" x 1- 3/4"	-
9	R98250	1	Bolt	-
10	RE505264	1	Pulley	-
11	R114837	1	Dust Shield	-
12	RE68715	1	Tightener	-
13	19M7810	1	Screw, M10 x 80	-
14	R112268	1	Screw	-
15	R502011	1	Gasket	-
16	R50393	1	Cover	-

Engine Wiring Harness

L1166, MP150C, and M175C2



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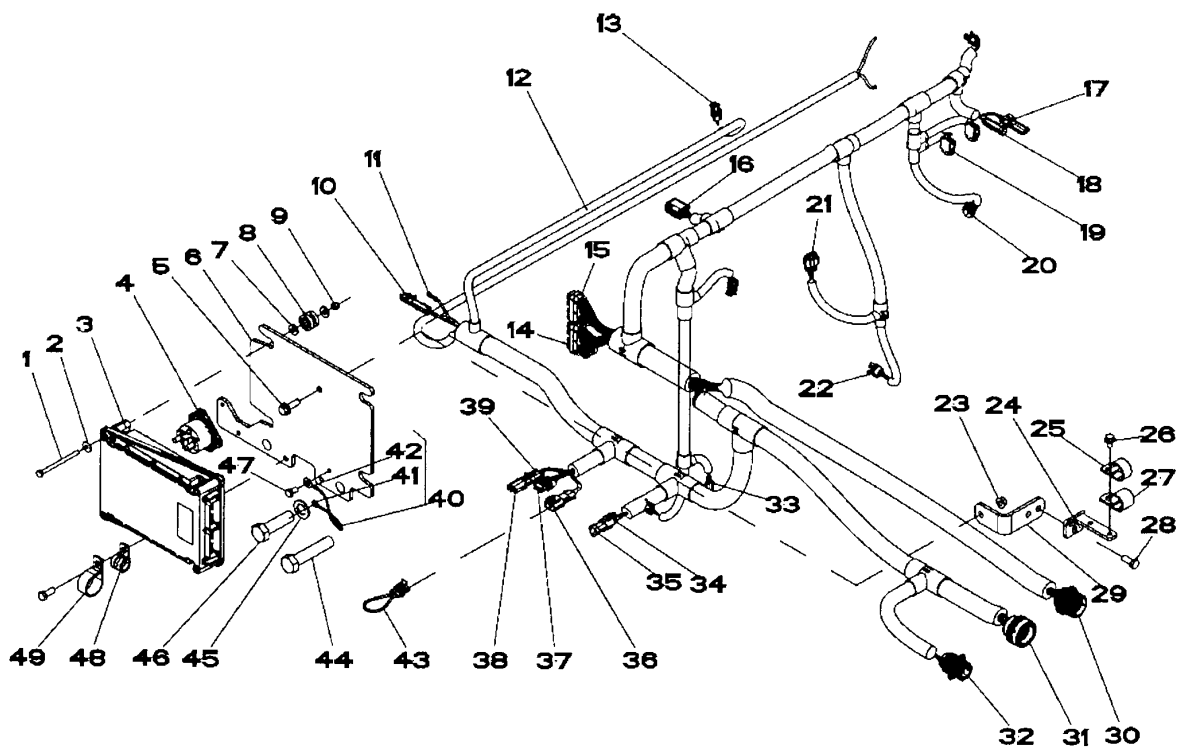
Engine Wiring Harness

L1166, MP150C, and M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	57M8131	1	Electrical Connector Terminal	-
2	57M7756	1	Electrical Connector Assembly	-
3	57M7276	1	Electrical Connector Assembly	-
4	57M7275	1	Electrical Connector Assembly	-
5	57M7557	1	Electrical Connector Terminal	-
6	57M7304	1	Electrical Connector Assembly	-
7	R104570	1	Electrical Connector Assembly	-
8	R78053	1	Electrical Connector Assembly	-
9	RE12363	1	Electrical Connector Assembly	-
10	57M7255	1	Electrical Connector Terminal	-
11	57M7257	1	Electrical Connector Housing	-
12	57M7547	2	Electrical Connector Terminal	-
13	57M7256	2	Electrical Connector Assembly	-
14	57M8038	1	Electrical Connector Assembly	-
15	57M7278	4	Electrical Connector Assembly	-
16	57M8407	1	Electrical Connector Terminal	-
17	57M7796	1	Electrical Connector Terminal	-
18	57M8403	2	Electrical Connector Terminal	-
19	57M8418	1	Electrical Connector Assembly	-
20	R78052	1	Electrical Connector Assembly	-
21	57M7254	1	Electrical Connector Assembly	-
22	57M7750	1	Electrical Connector Terminal	-
23	57M7749	1	Electrical Connector Assembly	-
24	57M8112	1	Electrical Connector Terminal	-
25	57M7919	1	Electrical Connector Terminal	-
26	RE522569	1	Wiring Harness	-
27	R124277	3	Screw	-
28	R72659	1	Clamp	-
29	19M7865	3	Screw	-
30	R505515	3	Bracket	-
31		1	Engine Controller (see fuel system parts details per application)	-
32	RE508001	1	Glow Plug	-
33	T76719	1	Clamp	-

Engine Wiring Harness

NL1166



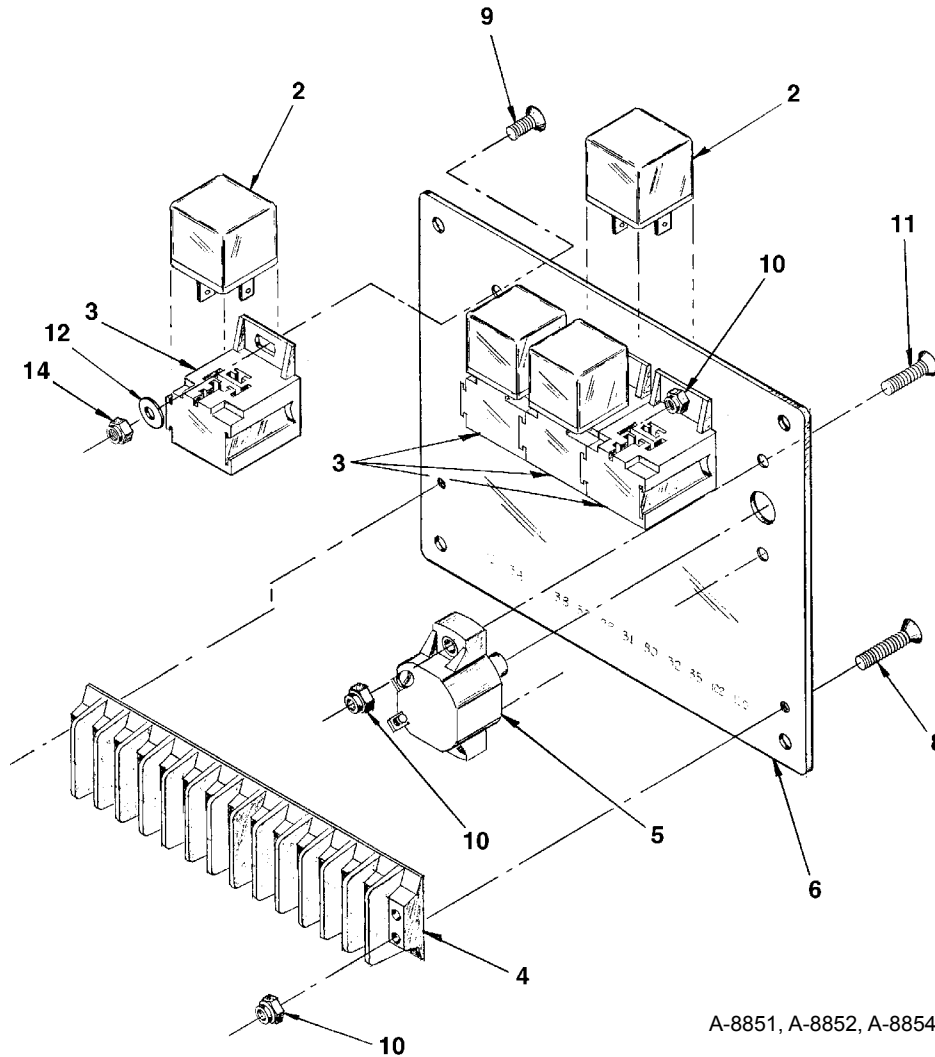
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Engine Wiring Harness

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19H2336	4	Capscrew	-
2	24H1646	1	Washer	-
3	RE518539	1	Engine Controller	-
4	RE164448	1	Starter Relay	-
5	19H3411	1	Screw	-
6	R517265	1	Bracket	-
7	24H1923	8	Washer	-
8	R500488	1	Isolator	-
9	M40333	4	Lock Nut	-
10	RE12362	1	Electrical Connector Assembly	-
11	57M7547	2	Electrical Connector Terminal	-
12	RE519702	1	Wiring Harness	-
13	57M7278	4	Electrical Connector Assembly	-
14	57M7276	1	Electrical Connector Assembly	-
15	57M7275	1	Electrical Connector Assembly	-
16	57M8038	1	Electrical Connector Assembly	-
17	57M7274	1	Electrical Connector Accessory	-
18	R78052	2	Electrical Connector Assembly	-
19	57M8403	2	Electrical Connector Terminal	-
20	57M8418	1	Electrical Connector Assembly	-
21	57M8407	1	Electrical Connector Terminal	-
22	57M7796	1	Electrical Connector Terminal	-
23	E55662	1	Flange Nut	-
24	R505515	3	Bracket	-
25	R109479	1	Clamp	-
26	19M7864	3	Screw	-
27	R72659	1	Clamp	-
28	19H2284	5	Capscrew	-
29	R517282	1	Angle	-
30	57M7750	1	Electrical Connector Terminal	-
31	57M8112	1	Electrical Connector Terminal	-
32	57M7919	1	Electrical Connector Terminal	-
33	57M7256	2	Electrical Connector Assembly	-
34	57M7756	1	Electrical Connector Assembly	-
35	57M8131	1	Electrical Connector Terminal	-
36	57M7304	1	Electrical Connector Assembly	-
37	57M8267	1	Electrical Connector Terminal	-
38	R78053	1	Electrical Connector Assembly	-
39	RE12363	1	Electrical Connector Assembly	-
40	RE520227	1	Wire	-
41	57M7557	1	Electrical Connector Terminal	-
42	57M7572	1	Electrical Connector Terminal	-
43	RE508001	1	Glow Plug	-
44	19H3027	2	Capscrew	-
45	24M7353	2	Washer	-
46	19H2411	2	Capscrew	-
47	19H96	1	Capscrew	-
48	T76719	3	Clamp	-
49	R112693	2	Clamp	-

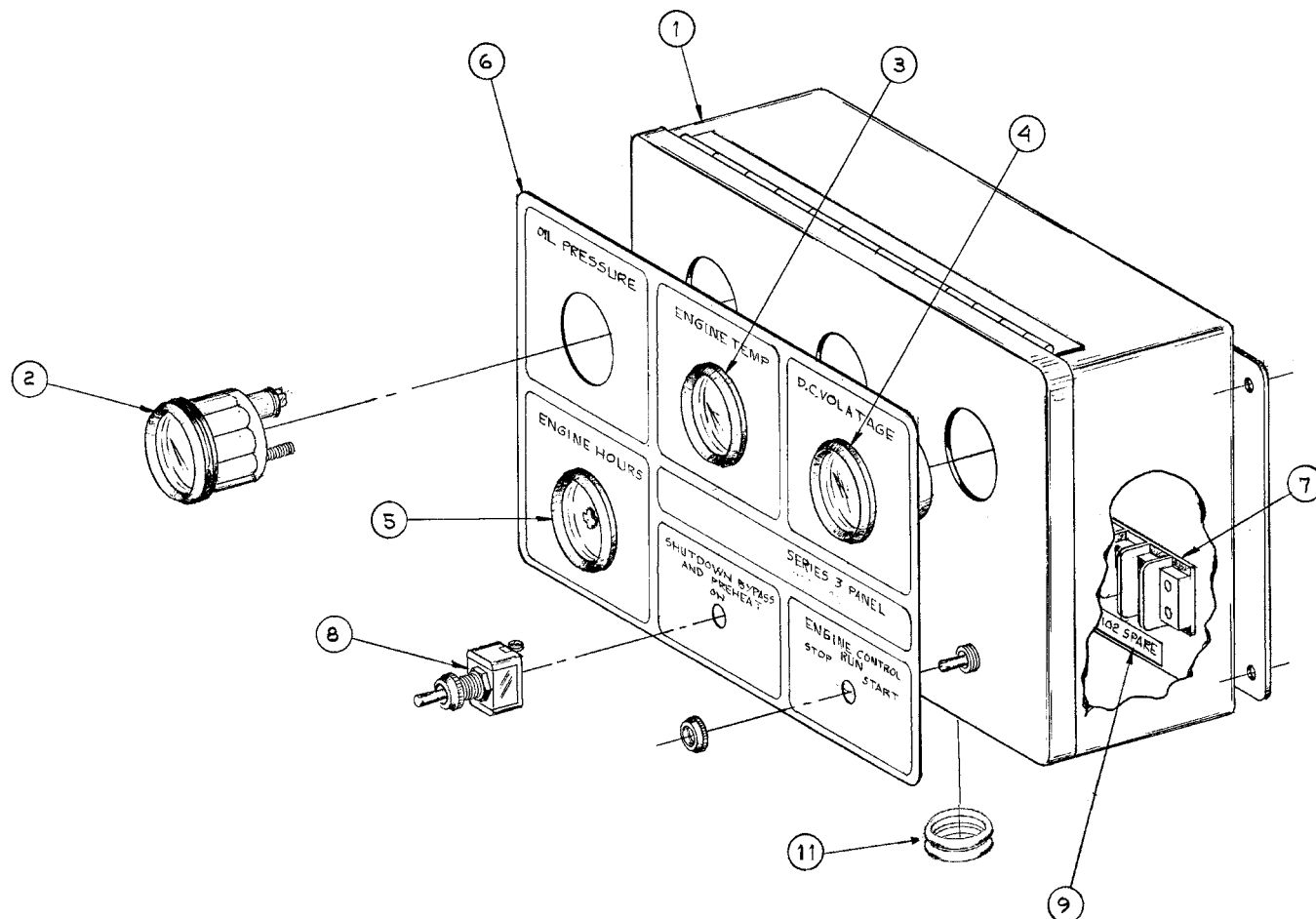
12 & 24 Volt Relay Logic Board



A-8851, A-8852, A-8854, A-8855/ C-2041

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-70083	1	12V Relay Logic Board, Manual Start (Includes all keys)	-
••	22-70084	1	24V Relay Logic Board, Manual Start (Includes all keys)	-
••	22-70086	1	12V Relay Logic Board, Autostart (Includes all keys)	-
••	22-70087	1	24V Relay Logic Board, Autostart (Includes all keys)	-
1	22-41060	2	6 amp Diode (not shown)	-
2	22-42047	4	12V Relay SPDT	-
	22-40085	4	24V Relay SPDT	-
3	22-40391	4	Relay Base	-
	22-40393	4	Clip	-
4	22-40193	1	12 Connection Terminal Board, 600 VAC	-
5	22-40018	1	10 amp Circuit Breaker	-
6	28-40001	1	Relay Board Mounting Plate	-
7	22-40393	4	Terminal Retainer Clip (not shown)	-
8	12-00083	2	Machine Screw, Flat Head Countersunk #8-32 x 3/4"	-
9	12-00082	4	Machine Screw, Flat Head Countersunk #8-32 x 3/8"	-
10	14-00003	4	Hex Nut, Nylock, #8 x 32	-
11	12-00089	2	Machine Screw, Flat Head Countersunk, #8-32 x 7/8"	-
12	15-00001	4	Flat Washer, #8	-
13	22-40347	1	Wire Harness, Manual Start	-
	22-40392	1	Wire Harness, Autostart	-
} Not shown				-

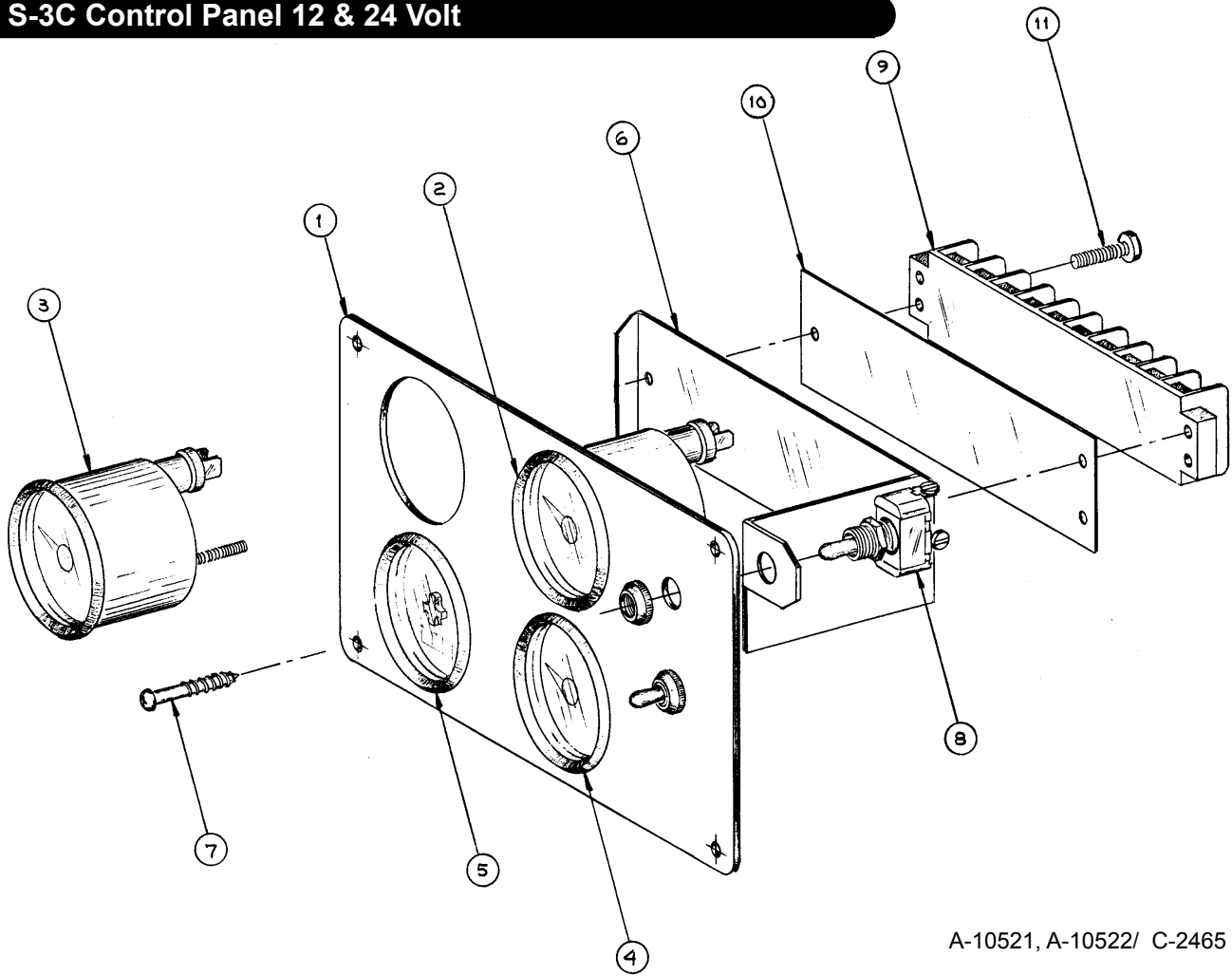
S-3B Control Panel 12 & 24 Volt



A-10525, A-10526/ C-2470

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99501	1	S-3B Control Panel Assembly, 12 Volt (includes all keys)	-
••	22-99502	1	S-3B Control Panel Assembly, 24 Volt (includes all keys)	-
1	39-40008	1	Enclosure	-
2	37-90081-1	1	Oil Pressure Gauge 12 Volt	-
	37-90082-1	1	Oil Pressure Gauge 24 Volt	-
3	37-90075-1	1	Temperature Gauge 12 Volt	-
	37-90076-1	1	Temperature Gauge 24 Volt	-
4	37-90072-1	1	DC Volt Meter, 8- 16 VDC	-
	37-90073-1	1	DC Volt Meter, 18- 32 VDC	-
5	37-90074-1	1	Hour Meter	-
6	00-91018	1	Decal	-
7	22-41077	1	Terminal Board	-
8	22-41051	2	Switch	-
9	22-00052	1	Number Strip	-
10	22-40257	1	Wire Harness *	-
11	00-40028	1	Grommet	-
12	37-41004	**	Bulb, 12 Volt *	-
	37-41003	**	Bulb, 24 Volt *	-
			*Not shown	**As required

S-3C Control Panel 12 & 24 Volt

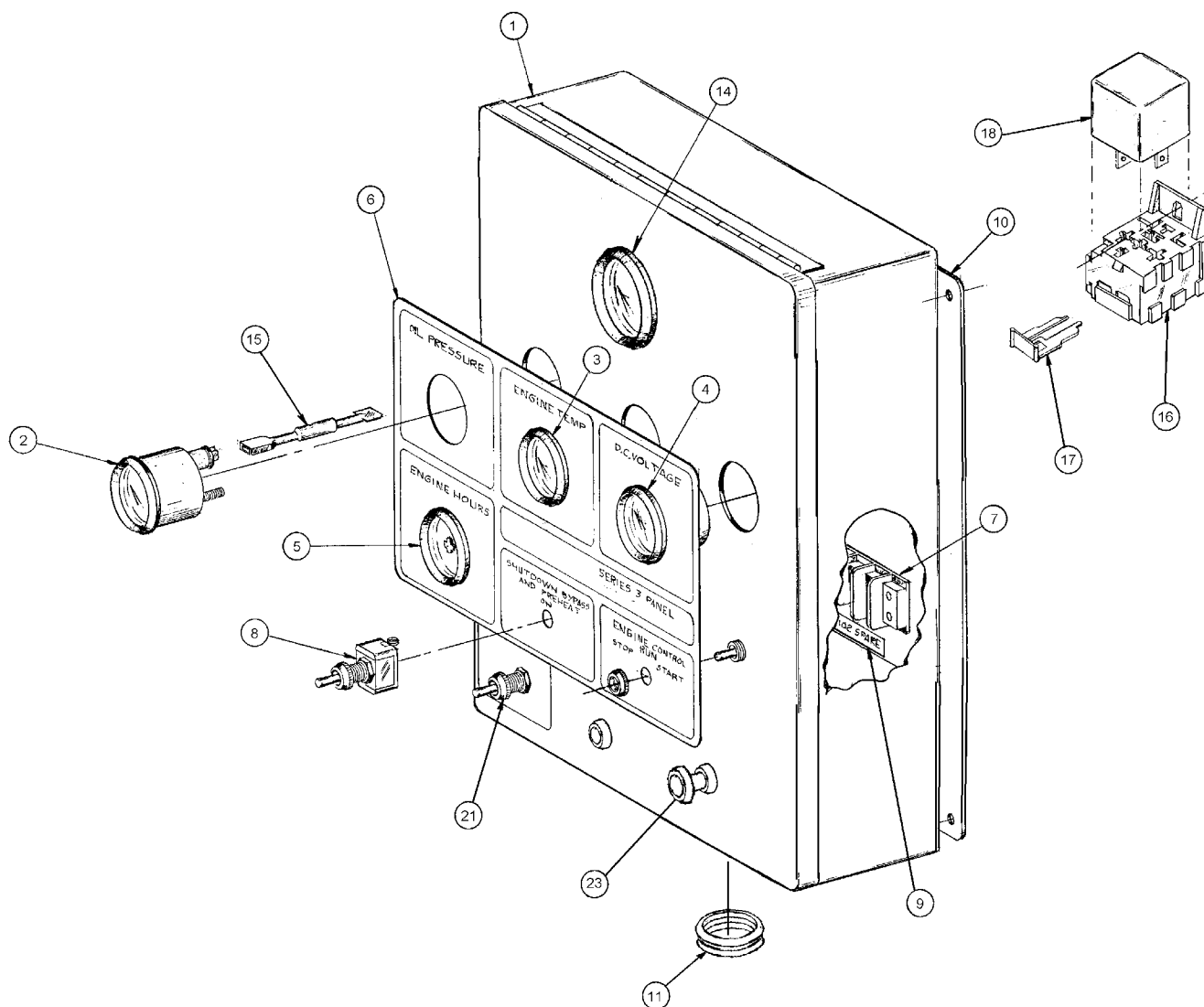


A-10521, A-10522/ C-2465

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99511	1	S-3C Control Panel Assembly, 12 Volt (includes all keys)	-
••	22-99512	1	S-3C Control Panel Assembly, 24 Volt (includes all keys)	-
1	28-90010	1	Plate	-
2	37-90081-1	1	Oil Pressure Gauge, 0-80 PSI 12 Volt	-
	37-90082-1	1	Oil Pressure Gauge, 0-80 PSI 24 Volt	-
3	37-90075-1	1	Engine Temperature Gauge, 250° 12 Volt	-
	37-90076-1	1	Engine Temperature Gauge, 250° 24 Volt	-
4	37-90072-1	1	Volt Meter, 8- 16 VDC	-
	37-90073-1	1	Volt Meter, 18- 32 VDC	-
5	37-90074-1	1	Hour Meter 12/ 24 Volt	-
6	23-90014	1	Bracket	-
7	12-90007	4	Self Tapping Screw, OVH Phillips #6	-
8	22-41051	2	Switch	-
9	22-41077	1	Terminal Board	-
10	22-00052	1	Number Strip	-
11	12-00006	2	Machine Screw, #8- 32 x 1/2 "	-
12	00-00013	**	Label, 12 Volt	-
	00-00014	**	Label, 24 Volt	-
13	22-40245	1	Wire Harness*	-
14	37-41004	**	Bulb, 12 Volt*	-
	37-41003	**	Bulb, 24 Volt*	-
			*Not shown	**As required

S-3B Control Panel, USN Spec.

NL1166H



A-10349/ C-6235

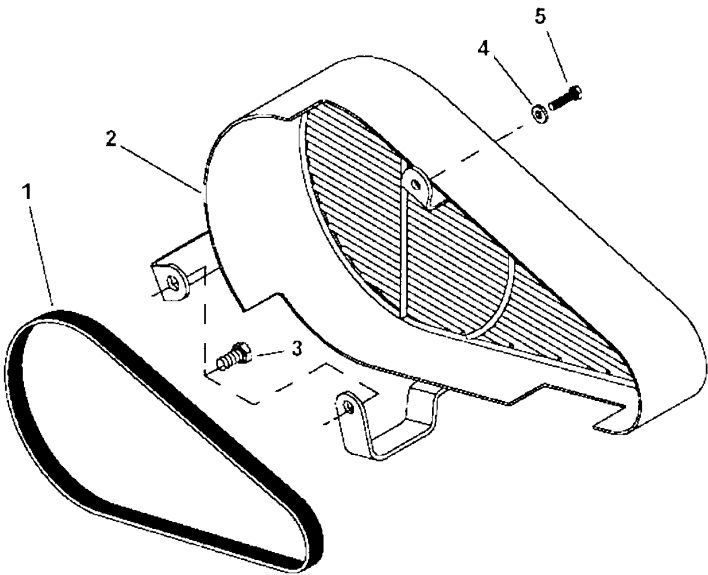
S-3B Control Panel, USN Spec.

NL1166H

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-42008-1	1	Enclosure, NEMA 12	-
2	37-40010	1	Oil Pressure Gauge 0-80 PSI	-
3	37-40011	1	Temperature Gauge 0- 250°F	-
4	37-40014	1	Voltmeter, 24 VDC	-
5	37-40020	1	Hourmeter	-
6	00-91018	1	Decal, S-3 Control Panel	-
7	22-41077	1	Terminal Strip	-
8	22-41051	2	Toggle Switch	-
9	22-00052	1	Number Strip	-
10	28-41001	1	Back Plane 16 x 14	-
11	00-40028	1	Grommet	-
12	16-01001	4	O-ring 1- 3/4" I.D.	-
13	16-01002	1	O-ring 3- 1/2" I.D.	-
14	37-91602	1	Tachometer 0- 3000 RPM	-
15	22-40004	3	Resistor Kit 150 Ohm	-
16	22-40391	2	Relay Base without retainer	-
17	22-40393	2	Terminal Retainer	-
18	22-40085	2	Relay SPDT 24 VDC 20 Amp	-
19	22-41060	1	Diode 6 Amp 50 Volt (not shown)	-
20	22-40067	1	Alarm Horn (see parts detail)	-
21	22-40284	1	Toggle Switch	-
22	00-90063	1	Label "Alarm Horn", "Silence"	-
23	22-40329	1	Push Button	-
24	00-90049	1	Label "Emergency Stop"	-
25	22-90158	1	Wire Harness (not shown)	-

Drive Belt and Guard

L1166A

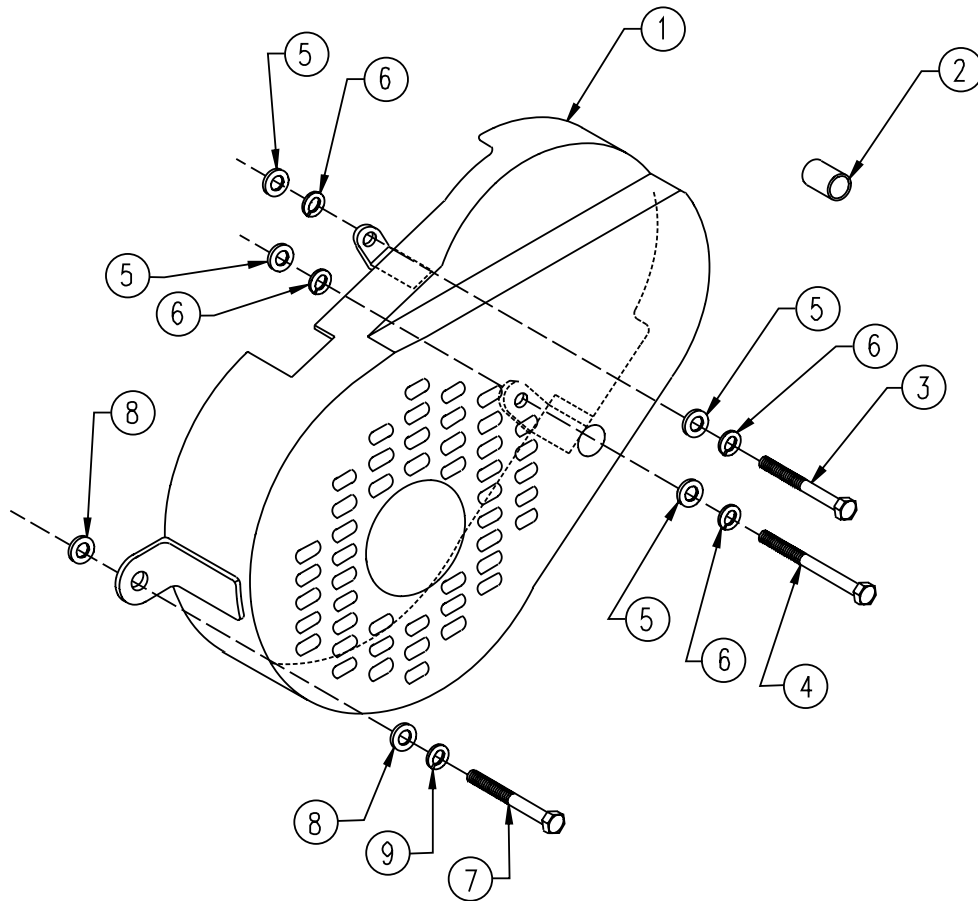


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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R133694	1	V-belt	-
2	RE504319	1	Guard	-
3	19H1792	2	Capscrew, 1/2" x 1"	-
4	24H1292	1	Washer	-
5	19H1849	1	Capscrew, 5/16" x 1- 1/4"	-

Belt Guard, Medium Frame Alternator

MP150C and M175C2, Heat Exchanged

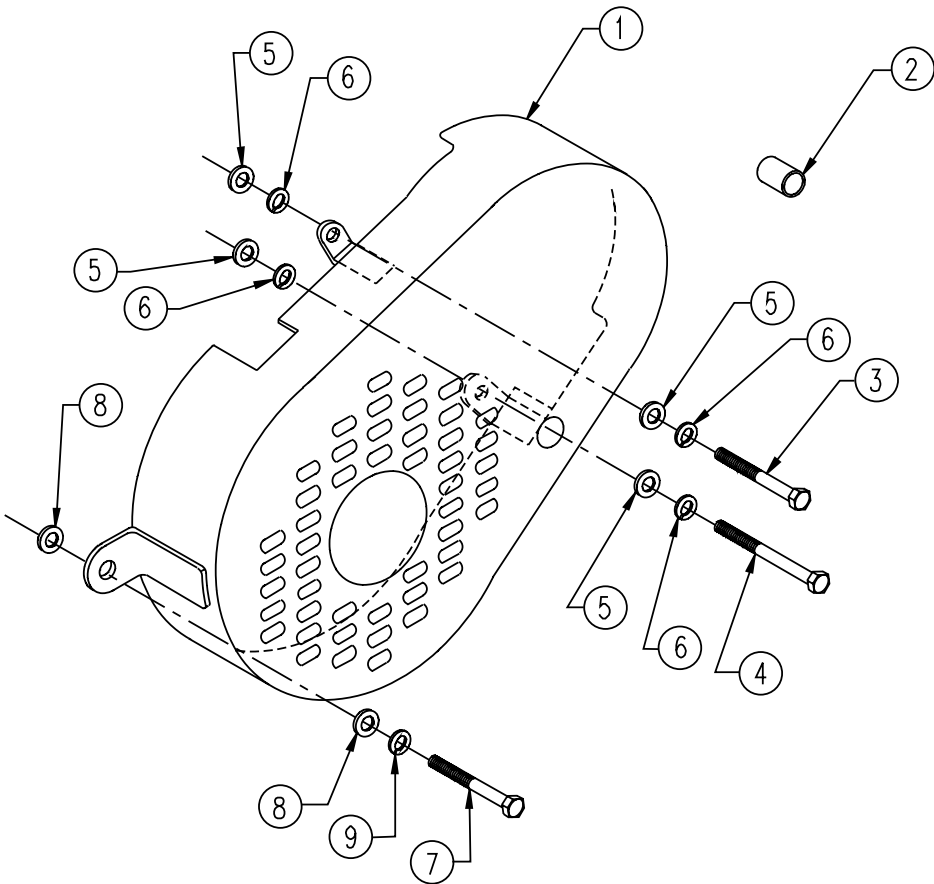


A-9931 / B-9149

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-02502	1	Belt Guard	-
2	21-40005	1	Spacer	-
3	12-00518	1	Capscrew, Hex Head 1/2- 13 x 2- 1/2"	-
4	12-00512	1	Capscrew, Hex Head 1/2- 13 x 1"	-
5	15-00007	2	Flat Washer, M12	-
6	15-00502	2	Lock Washer, Helical 1/2"	-
7	12-00313	1	Capscrew, Hex Head 3/8- 16 x 1- 1/4"	-
8	15-00321	2	Flat Washer 3/8" SAE	-
9	15-00302	1	Lock Washer, Helical 3/8"	-

Belt Guard, Medium Frame Alternator

MP150C and M175C2, Keel Cooled

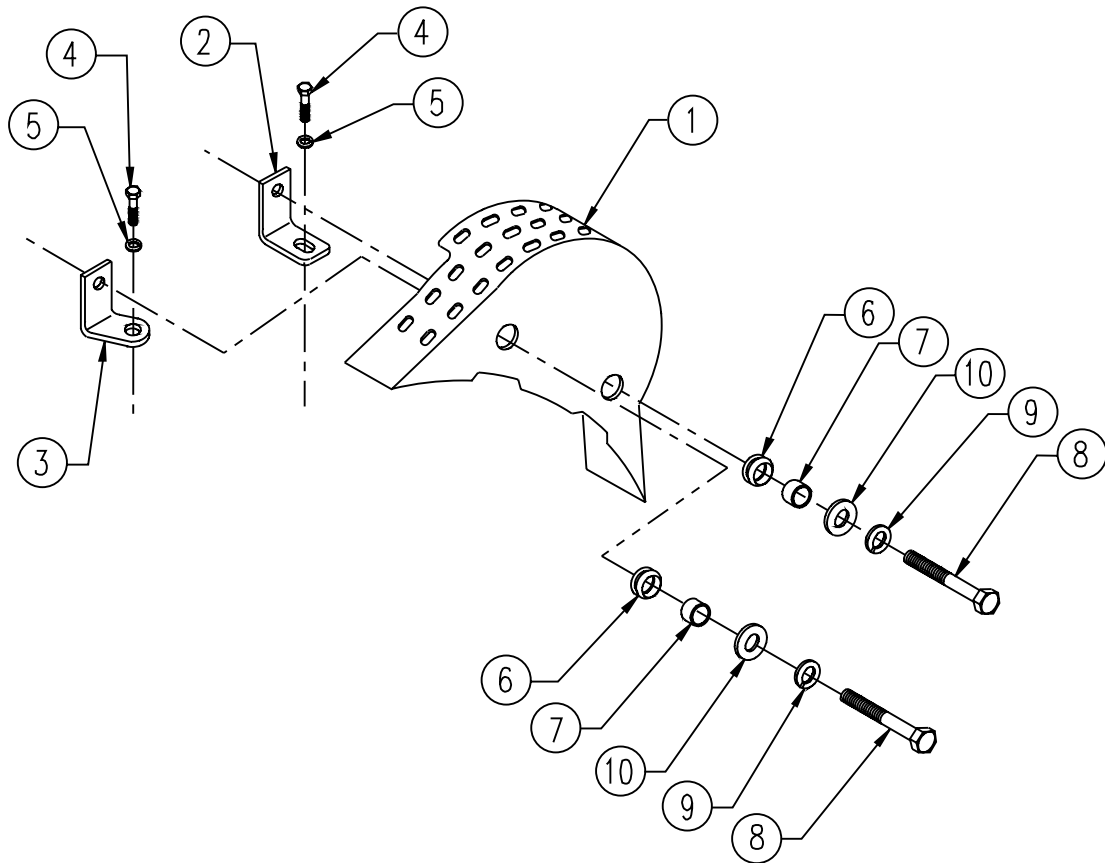


A-9327 / B-9168

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-02501	1	Belt Guard	-
2	21-40005	1	Spacer	-
3	12-00518	1	Capscrew, Hex Head 1/2- 13 x 2- 1/2"	-
4	12-00512	1	Capscrew, Hex Head 1/2- 13 x 1"	-
5	15-00007	2	Flat Washer, M12	-
6	15-00502	2	Lock Washer, Helical 1/2"	-
7	12-00313	1	Capscrew, Hex Head 3/8- 16 x 1- 1/4"	-
8	15-00321	2	Flat Washer 3/8" SAE	-
9	15-00302	1	Lock Washer, Helical 3/8"	-

Belt Guard, Medium Frame Alternator

M175C2 with PTO

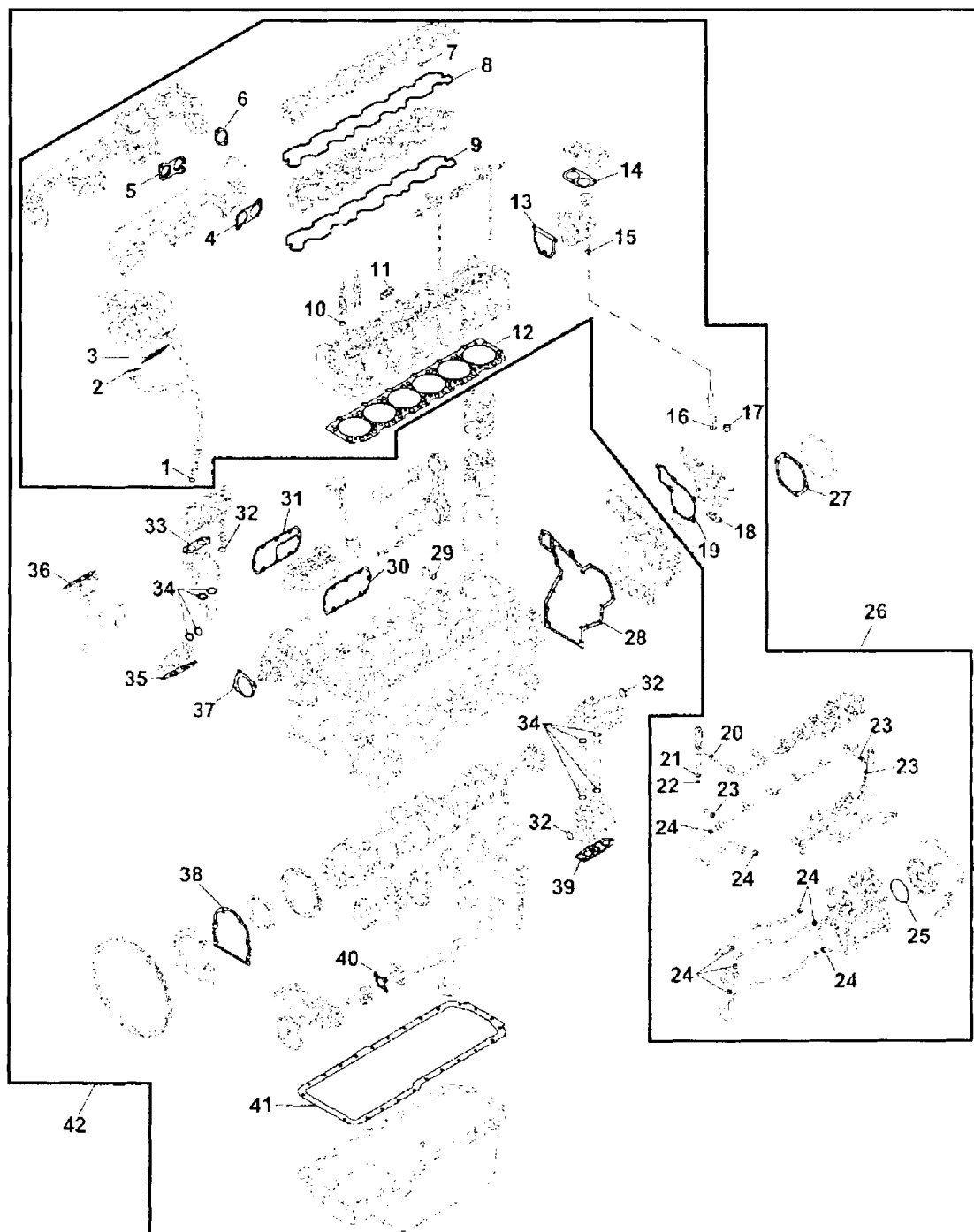


A-10319 / B-9169

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-02503	1	Belt Guard	-
2	23-05410	1	Bracket	-
3	23-05411	1	Bracket	-
4	12-00324	2	Capscrew, Hex Head 3/8- 24 x 3/4"	-
5	15-00301	2	Lock Washer, Helical 3/8"	-
6	00-00017	2	Grommet, 1/2" I.D. x 1" O.D.	-
7	21-05002	2	Spacer	-
8	12-09712	2	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-00705	2	Lock Washer, Helical M8 S/S	-
10	15-70004	2	Snubbing Washer S/S	-

Gaskets, Engine

L1166, MP150C, and M175C2



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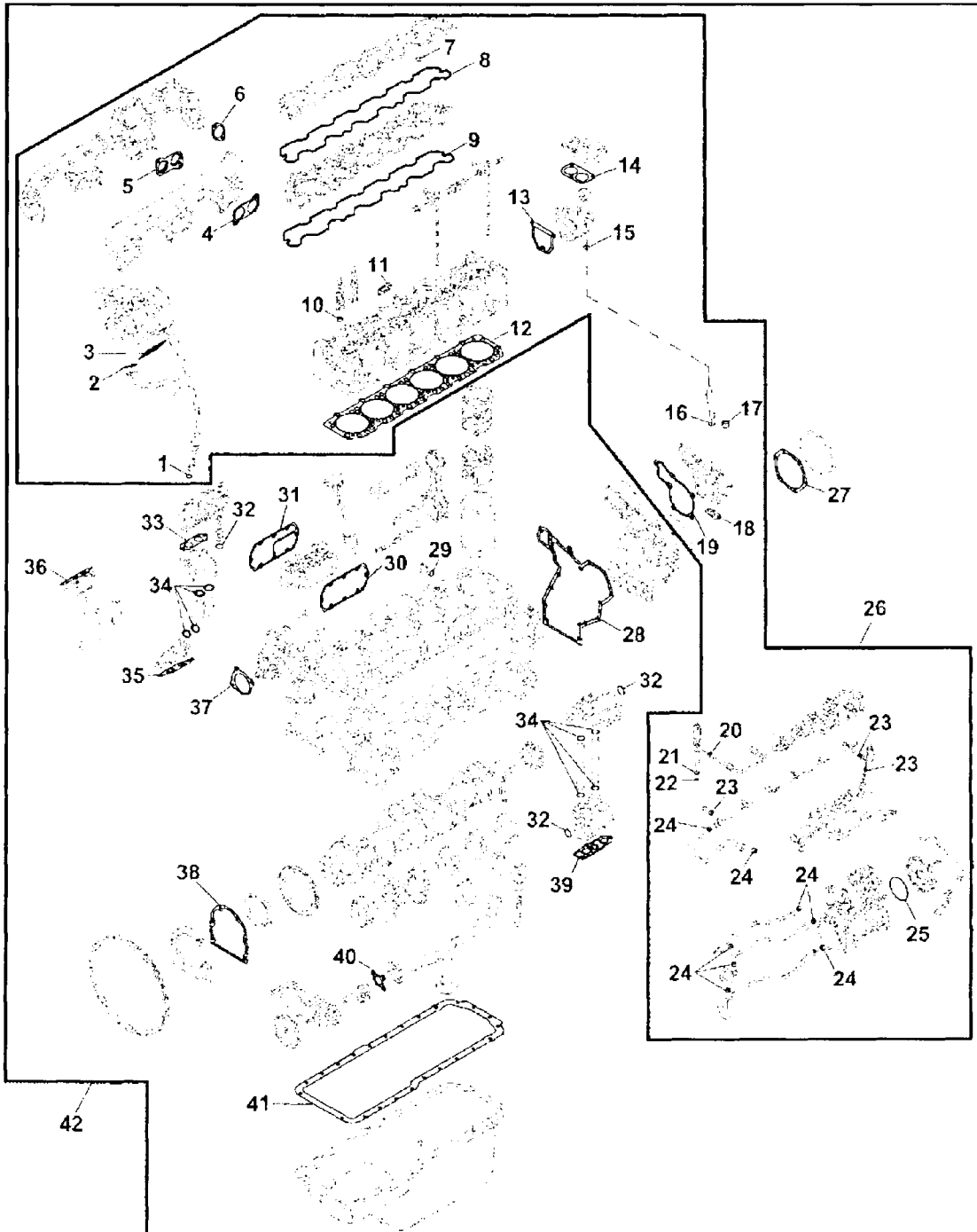
Gaskets, Engine

L1166, MP150C, and M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R68718	1	O-ring	-
2	R105346	1	Gasket	-
3	R89879	1	Gasket	-
4	R120646	3	Gasket	-
	R130573	3	Gasket	-
5	RE62776	2	Gasket (use with exhaust manifolds R120645, R504711, or R504712)	-
	R83020	2	Gasket	-
6	RE62777	2	Gasket (use with exhaust manifolds R120645, R504711, or R504712)	-
	R83021	2	Gasket	-
7	R504093	4	Seal	-
8	R502598	1	Gasket	-
9	R502719	1	Seal	-
10	R501640	6	Shield	-
11	R88397	2	Gasket	-
12	RE55475	1	Engine Cylinder Head Gasket	-
13	R86062	1	Gasket	-
14	R136063	1	Seal	-
15	R72328	1	O-ring	-
16	R504810	1	O-ring	-
17	RE57190	1	Seal	-
18	R502011	1	Gasket	-
19	R504885	1	Gasket	-
20	R505570	6	O-ring	-
21	R503578	6	Packing	-
22	R131051	6	Washer	-
23	R51936	8	Sealing Washer	-
24	R63551	8	Sealing Washer	-
25	R515457	1	O-ring	-
26	RE521059	1	Gasket Kit, Cylinder Head	-
27	R502011	1	Gasket	-
28	R119384	1	Gasket	-
29	U13639	1	O-ring	-
30	AR58952	1	Gasket	-
31	R132396	1	Gasket	-
32	U17409	3	O-ring	-
33	R124030	1	Gasket	-
34	R47153	8	O-ring	-
35	R50424	1	Gasket	-
36	R109625	1	Gasket	-
37	R53108	1	Gasket	-
38	R26058	1	Gasket	-
39	R119847	1	Gasket	-
40	R100569	1	Gasket	-
41	RE504822	1	Gasket	-
42	RE521058	1	Gasket Kit, Engine Rebuild (also order seal kit RE516171)	-

Gaskets, Engine

NL1166



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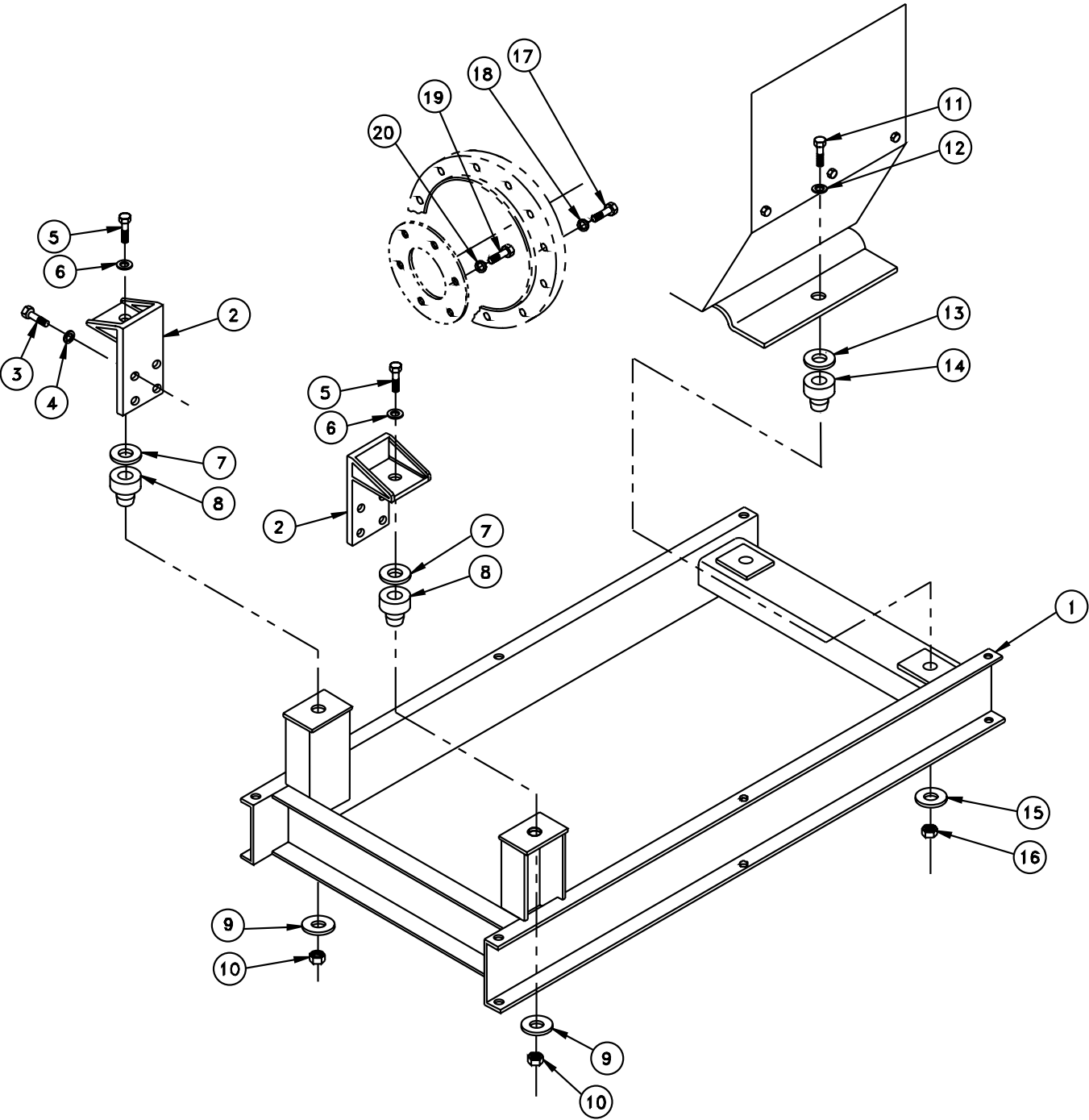
Gaskets, Engine

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R49424	1	O-ring	-
2	R105346	1	Gasket	-
	R521349	1	Gasket	-
3	R89879	1	Gasket, Duel Compartment	-
	R92097	1	Gasket, Single Compartment	-
4	R120646	3	Gasket (use with R505132)	-
	R130573	3	Gasket	-
5	RE62776	2	Gasket (use with exhaust manifolds R120645, R504711, or R504712)	-
	R521437	2	Gasket	-
6	RE62777	2	Gasket (use with exhaust manifolds R120645, R504711, or R504712)	-
	R521438	2	Gasket	-
7	R504093	4	Seal	-
8	R502598	1	Gasket	-
9	R502719	1	Seal	-
10	R501640	6	Shield	-
11	R88397	2	Gasket	-
12	RE55475	1	Engine Cylinder Head Gasket	-
13	R86062	1	Gasket (use with thermostat housing R109859)	-
	R136063	1	Seal	-
14	R124607	1	Gasket	-
15	R72328	1	O-ring	-
16	R504810	1	O-ring	-
17	RE57190	1	Seal (use with manifolds R124742 or R505455)	-
18	R125072	1	Gasket	-
19	R119383	1	Gasket (use with cover R124741)	-
	R504885	1	Gasket (use with R504800)	-
20	U13639	6	O-ring	-
21	R503578	6	Packing	-
22	R131051	6	Washer	-
23	R51936	8	Sealing Washer	-
24	R63551	8	Sealing Washer	-
25	R515457	1	O-ring	-
26	RE527552	1	Gasket Kit (use with cast iron pan, replacement for RE526729)	-
27	R502011	1	Gasket	-
28	R119384	1	Gasket	-
30	RE524105	1	Gasket	-
31	R132396	1	Gasket	-
32	U17409	3	O-ring	-
33	R520091	1	Gasket	-
34	R47153	8	O-ring	-
35	R520547	1	Gasket	-
36	R109625	1	Gasket	-
37	R53108	1	Gasket	-
38	R522768	1	Gasket	-
39	R119847	1	Gasket	-
40	R100569	1	Gasket	-
41	R125855	1	Gasket (use with cast iron pan)	-
	R521228	1	Gasket (use with aluminum pan)	-
42	RE527551	1	Gasket Kit (Engine rebuild, formerly RE526258)	-
	RE516171	1	Seal Kit (use with RE506071)	-
	R136151	1	Seal (use with thermostat covers RE502569 or RE502570)	-

Base Frame

MP150C and M175C2



A-9165A/ B-9172

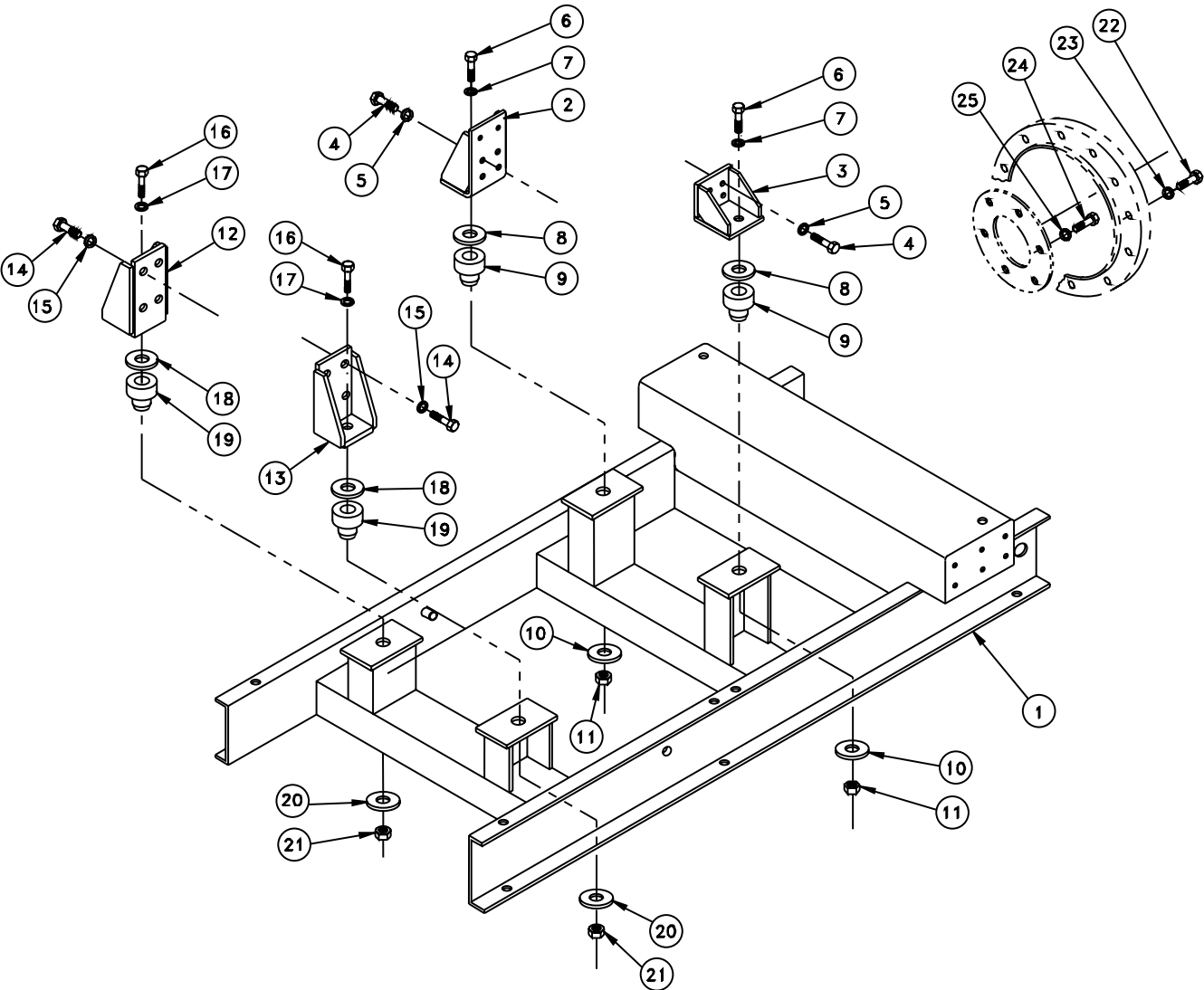
Base Frame

MP150C and M175C2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-82519	1	Base Frame, Steel	-
2	23-82512	2	Bracket, Front Engine Mounting	-
3	12-01319	8	Capscrew, Hex Head 5/8- 11 x 2- 3/4	-
4	15-00902	8	Lock Washer, Helical 5/8"	-
5	12-00034	2	Capscrew, Hex Head 5/8- 11 x 3- 1/2"	-
6	15-01330	2	Flat Washer 5/8" SAE	-
7	15-00015	2	Head Washer	-
8	33-81008	2	Mount, Centerbonded 650 lbs.	-
9	15-00025	2	Tail Washer	-
10	14-00912	2	Hex Nut, Nylock 5/8- 11	-
11	12-01222	2	Capscrew, Hex Head 3/4- 10 x 4"	-
12	15-01211	2	Flat Washer 3/4"	-
13	15-85000	2	Head Washer	-
14	33-85001	2	Mount, Centerbonded 1050 lbs.	-
15	15-85001	2	Tail Washer	-
16	14-01212	2	Hex Nut, Nylock	-
17	12-00313	12	Capscrew, Hex Head 3/8- 16 x 1- 1/4"	-
18	15-00302	12	Lock Washer, Helical 3/8"	-
19	12-00332	8	Capscrew, Hex Head 3/8- 16 x 1" Grade 8	-
20	15-00307	8	Flat Washer 3/8"/ M10 Hardened	-

Base Frame

NL1166

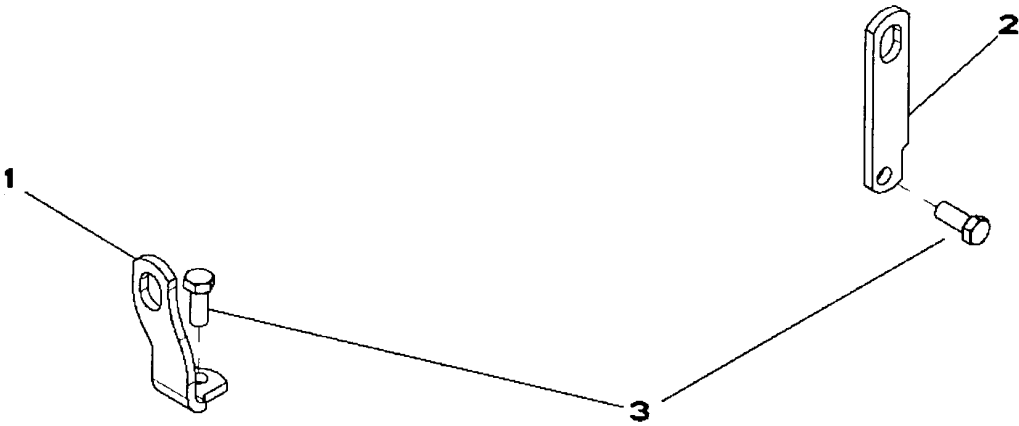


Base Frame

NL1166

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-82523	1	Base Frame, Steel	-
2	23-82518	1	Bracket, Front Engine Mounting Left Hand	-
3	23-82519	1	Bracket, Front Engine Mounting Right Hand	-
4	12-01319	8	Capscrew, Hex Head 5/8- 11 x 2- 3/4	-
5	15-00902	8	Lock Washer, Helical 5/8"	-
6	12-00034	2	Capscrew, Hex Head 5/8- 11 x 3- 1/2"	-
7	15-01330	2	Flat Washer 5/8" SAE	-
8	15-00015	2	Head Washer	-
9	33-81008	2	Centerbonded Mount 650 lbs.	-
10	15-00025	2	Tail Washer	-
11	14-00912	2	Hex Nut, Nylock 5/8- 11	-
12	23-82521	1	Bracket, Rear Engine Mounting Left Hand	-
13	23-82522	1	Bracket, Rear Engine Mounting Right Hand	-
14	12-00913	8	Capscrew, Hex Head 5/8- 11 x 1- 1/2"	-
15	15-01330	8	Flat Washer 5/8" SAE	-
16	12-01222	2	Capscrew, Hex Head 3/4- 10 x 4"	-
17	15-01211	2	Flat Washer 3/4"	-
18	15-85000	2	Head Washer	-
19	33-81011	2	Centerbonded Mount 800 lbs.	-
20	15-85001	2	Tail Washer	-
21	14-01212	2	Hex Nut, Nylock	-
22	12-00832	12	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
23	15-00802	12	Lock Washer, Helical M10	-
24	12-00318	8	Capscrew, Hex Head 3/8- 16 x 2- 1/2"	-
25	15-00307	8	Flat Washer 3/8" M10 Hardened	-

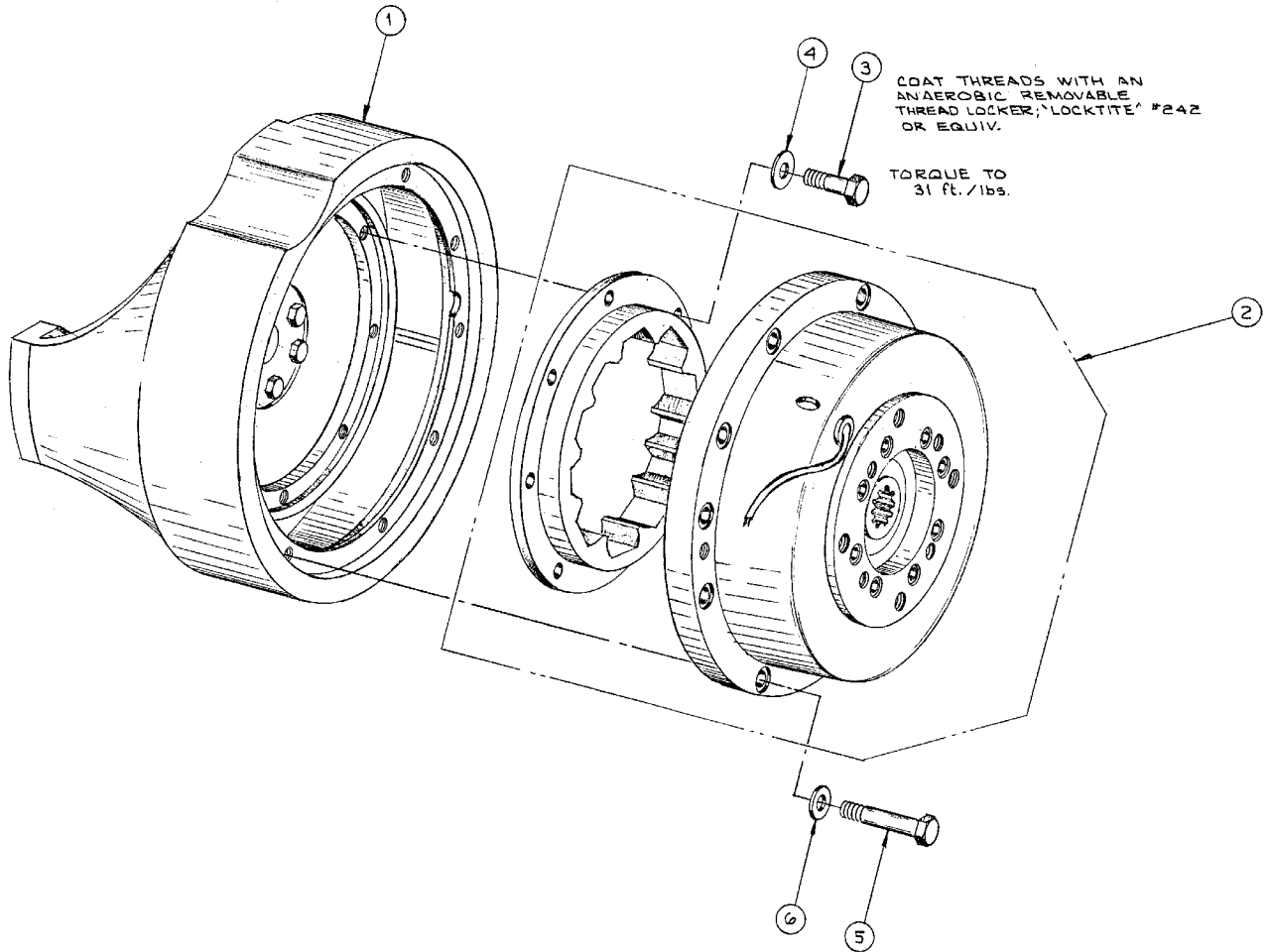
Lifting Eye



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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R505588	1	Lifting Eye	-
2	R61497	1	Lifting Eye	-
3	19H1756	2	Capscrew, 5/8" x 1- 1/2"	-

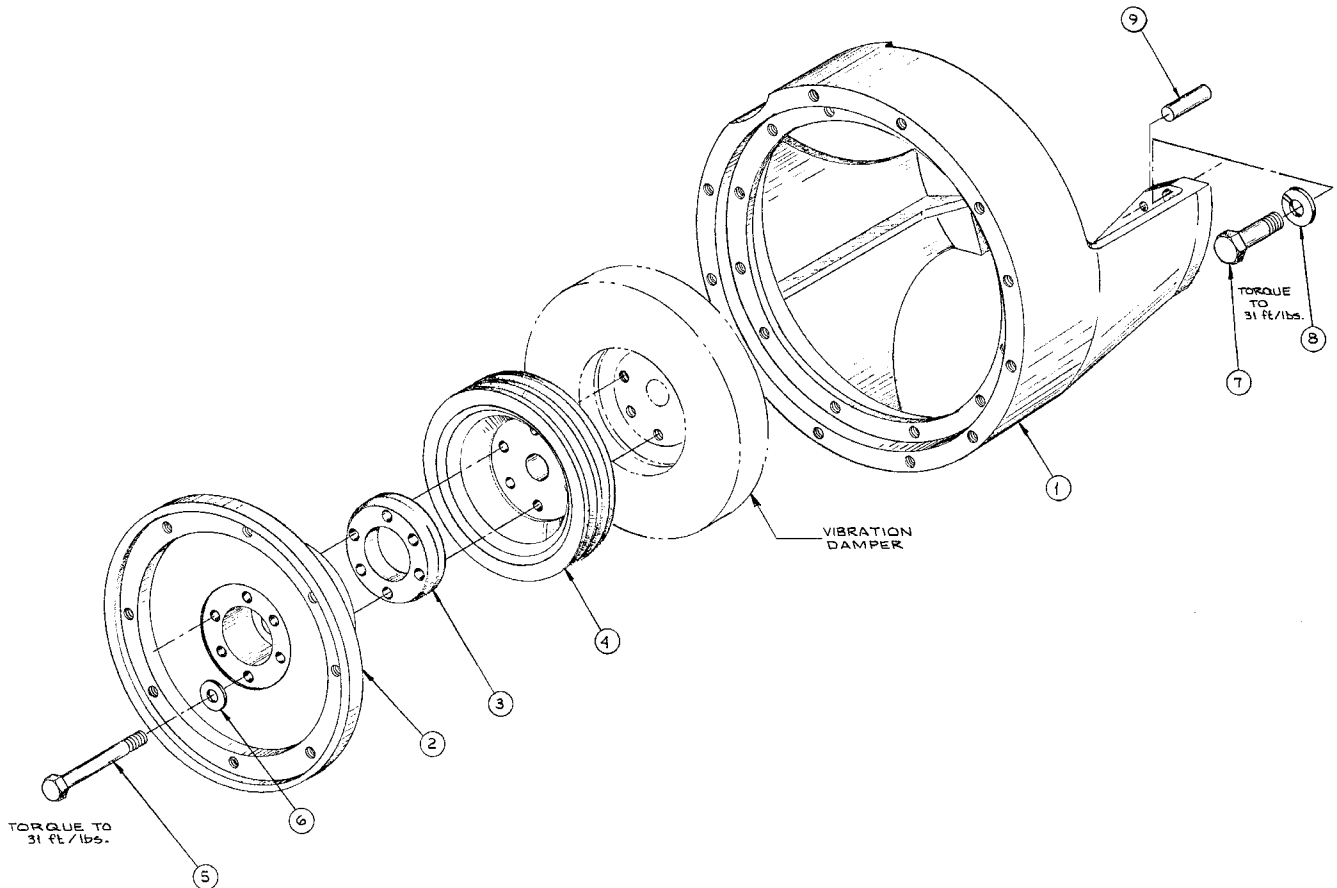
PTO/ Electric Clutch H-49



A-9395, A-9396/ C-2307

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	31-62500	1	PTO Adapter Parts SAE #4/ #10 (see parts detail)	-
2	34-60050	1	Electric Clutch (includes keys #3- 6, see parts detail)	-
	34-60055	1	Electric Clutch (includes keys #3- 6, see parts detail)	-
3	12-00312	8	Capscrew, Hex Head 3/8- 16 x 1"	-
4	15-00321	8	Flat Washer 3/8" SAE	-
5	12-00315	12	Capscrew, Hex Head 3/8- 16 x 1- 3/4"	-
6	15-00300	12	Flat Washer	-

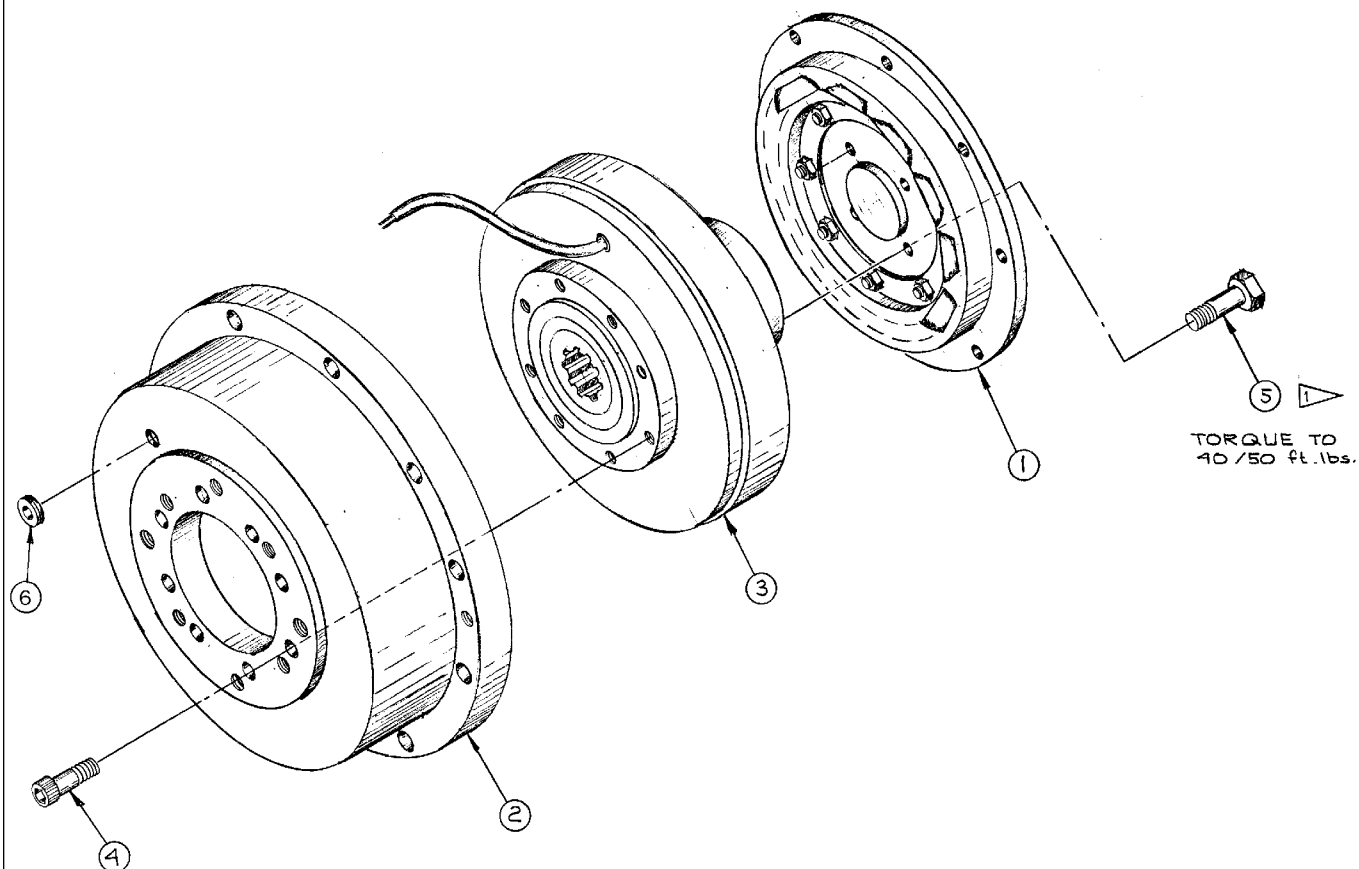
PTO Adapter Parts SAE #4/ #10



A-9394/ C-2306

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-72501	1	Bracket, Front PTO Mounting SAE #3 & SAE #4	-
2	34-62517	1	PTO Carrier SAE #10	-
3	31-62501	1	Adapter, PTO Carrier Mounting	-
4	34-62516	1	Pulley	-
5	12-90340	6	Capscrew, Hex Head 3/8- 16 x 4" Grade 8	-
6	15-00321	6	Flat Washer 3/8"	-
7	12-00515	4	Capscrew, Hex Head 1/2- 13 x 1- 3/4"	-
8	15-00502	4	Lock Washer, Helical 1/2"	-
9	32-62501	2	Dowel Pin 3/8" O.D. x 1"	-

Electric Clutch H-49



A-9394/ C-2236

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	34-61454	1	Drive Assembly (includes key #7)	-
2	10-60011	1	Housing, PTO Clutch	-
3	34-60026	1	Electric Clutch Assembly	-
	34-60019	1	Electric Clutch Assembly	-
4	12-00035	8	Capscrew, Socket Head 3/8- 16 x 3/4"	-
5	12-00025	4	Capscrew, Hex Head 7/16- 20 x 3/4"	-
6	00-61003	1	Grommet, 3/8" I.D. x 3/4" O.D.	-
7	00-61001	**	Rubber Cushion Block (service spares - not shown)	-