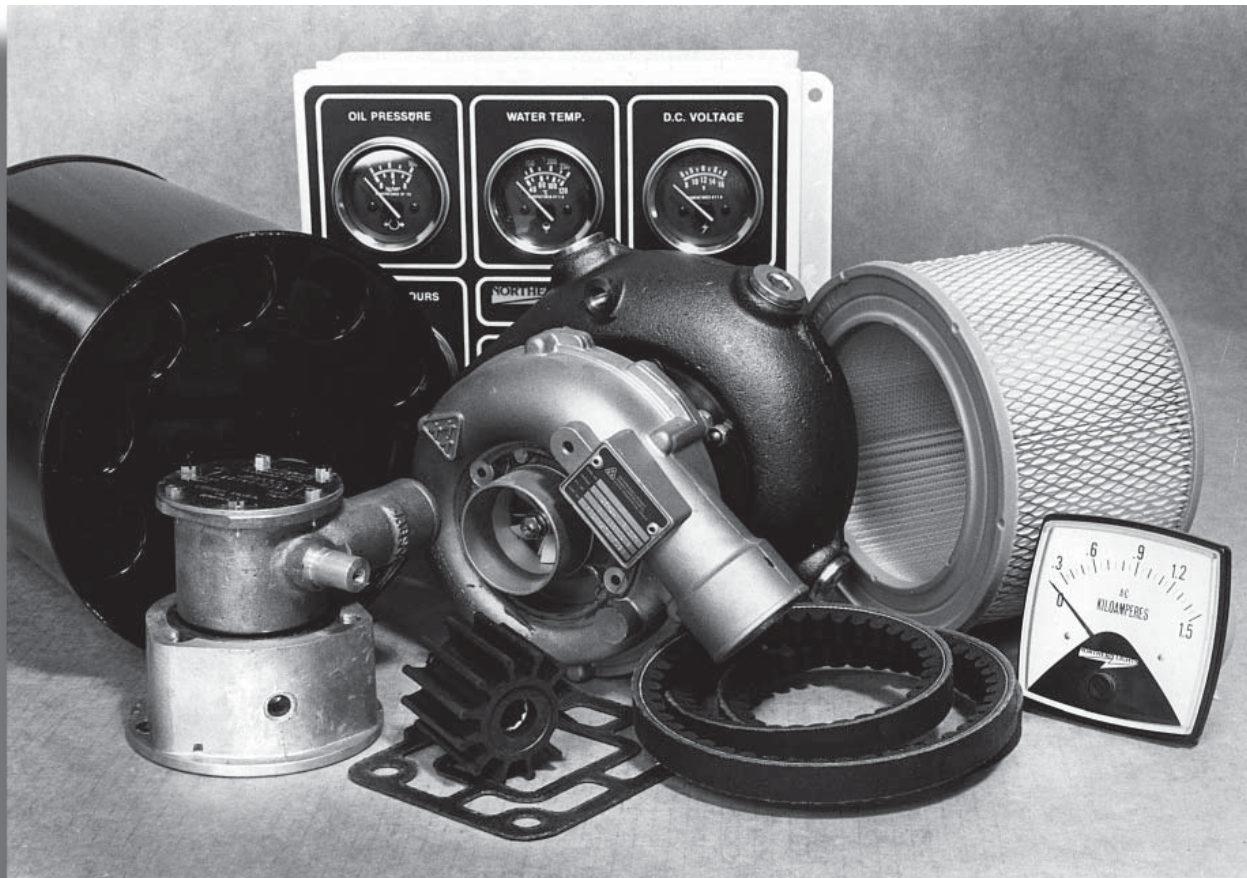


PARTS CATALOG

Publication #P668PT for models:
LP668D, LP668T, MP668D, MP668T, MP668QT,
MP668H, MP80C, MP99C, NL668T1, and NL668T2



NORTHERN LIGHTS
®



— 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.



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PART NO.: P668PT 09/05

PARTS CATALOG

for Models

LP668D, LP668T, MP668D, MP668T, MP668QT,
MP668H, MP80C, MP99C, NL668T1, NL668T2

Please read thoroughly before attempting to use this manual:

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Proprietary Information

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MODEL DESIGNATION

Refer to the category designations below to find the correct parts pages for your model.

LP - MP - NL

LP - Lugger propulsion unit
MP - Northern Lights marine generator set
NL - Northern Lights industrial generator set

668

Base Model #
 (Deere 6068 Powertech
 Series engine block)

D - T - H - C

Aspiration
 D Natural H High Output
 QT, T Turbocharged C Commercial

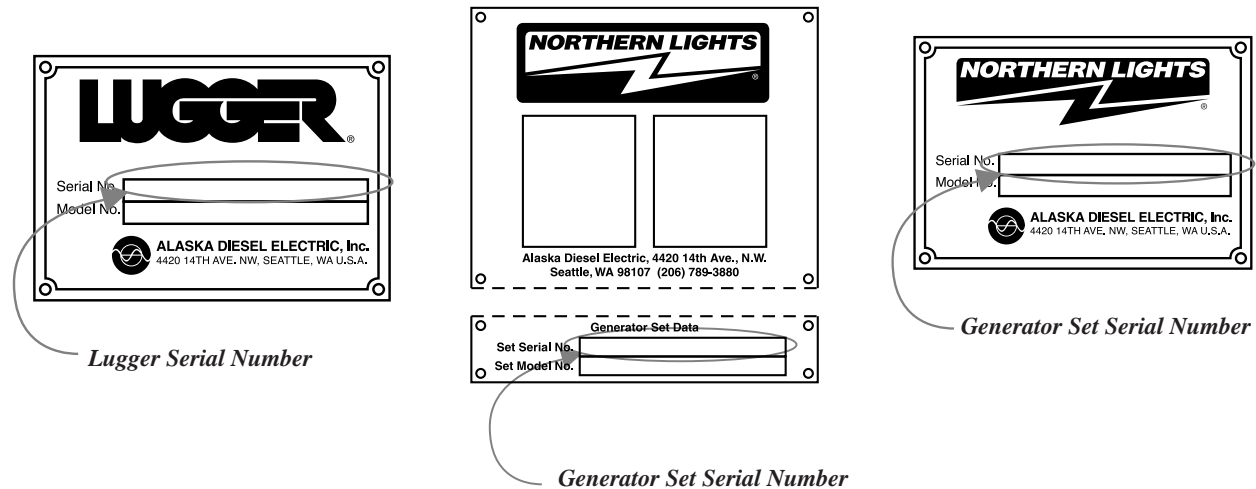
- | | |
|---|---|
| <p>LP 668 D Northern Lights naturally aspirated propulsion engine with a John Deere 6068 engine.</p> <p>LP 668 T Northern Lights turbocharged propulsion engine with a John Deere 6068 engine.</p> <p>MP 668 D Northern Lights naturally aspirated marine diesel generator set with a John Deere 6068 engine.</p> <p>MP 668 T Northern Lights turbocharged marine diesel generator set with a John Deere 6068 engine.</p> <p>MP 668 QT Northern Lights turbocharged marine diesel generator set with a John Deere 6068 engine.</p> | <p>MP 668 H Northern Lights turbocharged high output marine diesel generator set with a John Deere 6068 engine.</p> <p>MP 80 C Northern Lights turbocharged marine diesel generator set with a John Deere 6068 engine, 80 kW.</p> <p>MP 99 C Northern Lights turbocharged marine diesel generator set with a John Deere 6068 engine, 99 kW.</p> <p>NL 668 D Northern Lights naturally aspirated industrial diesel engine, with a John Deere 6068 engine.</p> <p>NL 668 T Northern Lights turbocharged industrial diesel generator set with a John Deere 6068 engine.</p> |
|---|---|

All model numbers in parentheses will indicate a John Deere base engine. All variations requiring serial numbers for proper identification will be noted as ADE or John Deere.

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 one of the drawings 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.

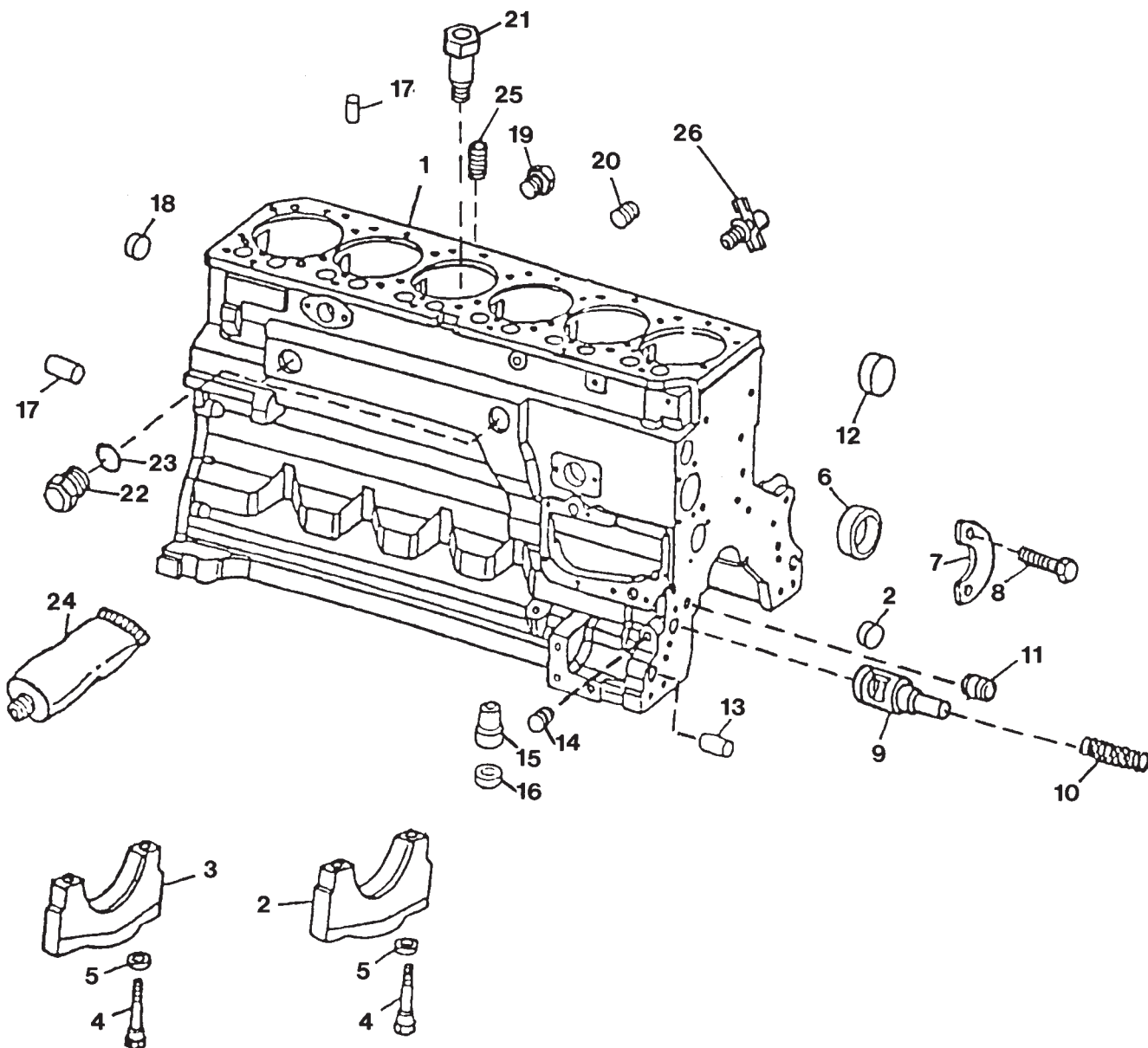
KEY	PART NUMBER	QTY.	DESCRIPTION	SERIALNUMBER
0	185046210	1	Alternator Assembly	-
1	185446219	1	Flywheel, complete	-
2	185446217	1	Plate, complete	-
3	185716200	1	Plate	-
4	185446218	1	Stator, complete	-
5	040126210	2	Bearing	-
6	020210010	1	Nut	-
7	027100010	1	Spring washer	-
8	026100010	1	Washer	-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

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

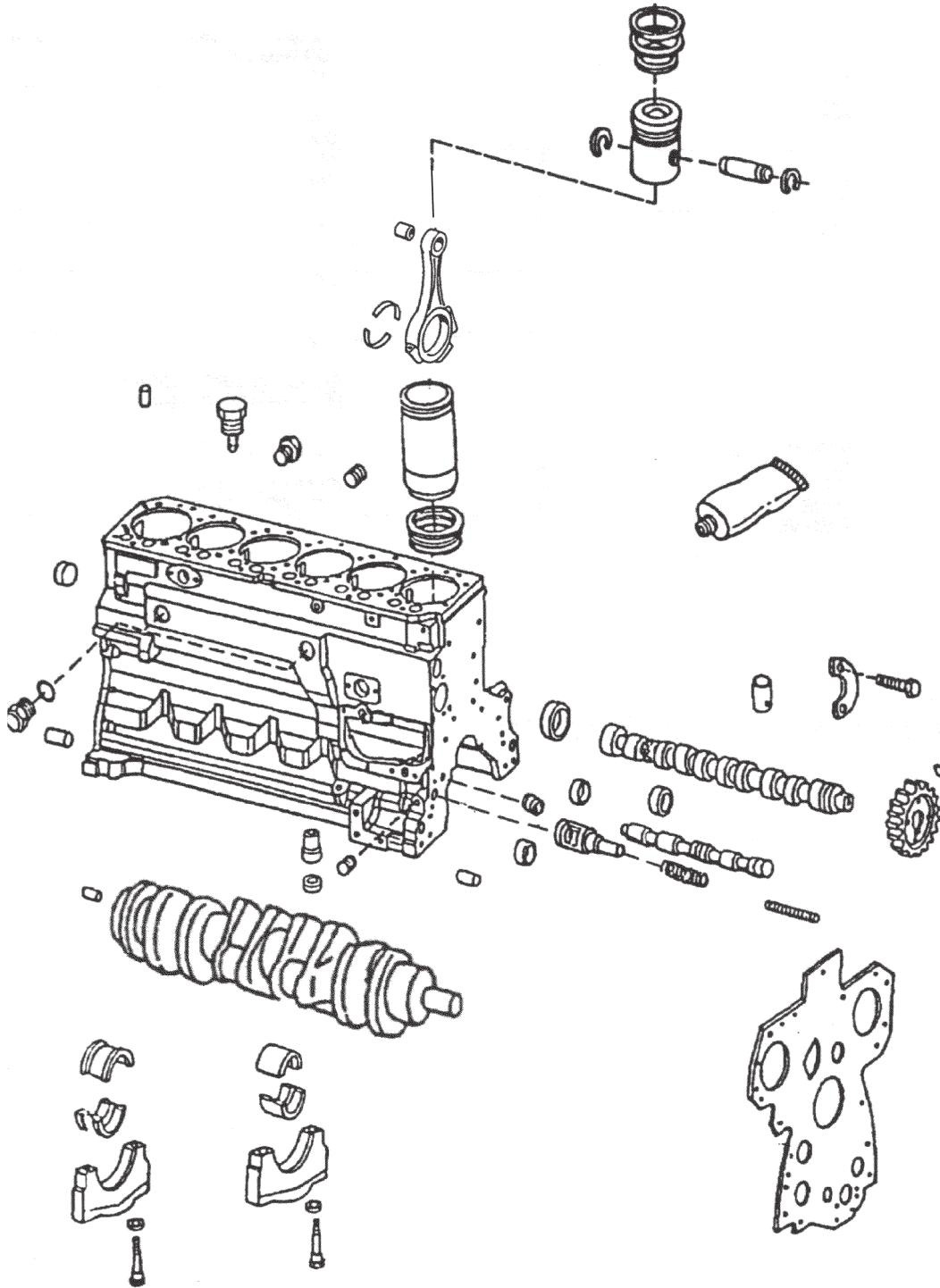


Cylinder Block

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1		1	Cylinder Block (marked R119565)*	-
2	R114241	6	Main Bearing Cap	-
3	R132186	1	Main Thrust Bearing Cap	-
4	T23474	14	Cap Screw	-
5	T20168	14	Washer	-
6	R119874	1	Camshaft Bushing	-
7	R132518	1	Plate	-
8	19M8999	2	Screw, M8 x 25	-
9	R121043	1	Valve, Oil By-pass	-
10	R111137	1	Spring	-
11	R26493	1	Bushing, Oil pressure regulating	-
12	R116466	1	Bushing	-
13	R26650	2	Dowel Pin	-
14	15H623	1	Pipe Plug, 3/8"	-
15	R115390	1	Bushing	-
16	R75892	1	O-ring	-
17	R48685	4	Dowel Pin	-
18	T18891	2	Cap	-
19	R55233	1	Pipe Plug, 1/4"	-
20	R104592	7	Pipe Plug	-
21	R131182	6	Orifice	-
22	R39741	2	Drain Plug	-
23	U13639	2	O-ring	-
24	T43514	1	Gasket	-
25	15H624	1	Pipe Plug, 1/2", (without turbo)	-
26	AT13740	1	Drain Valve	-

*Not available separately - see short block listing.

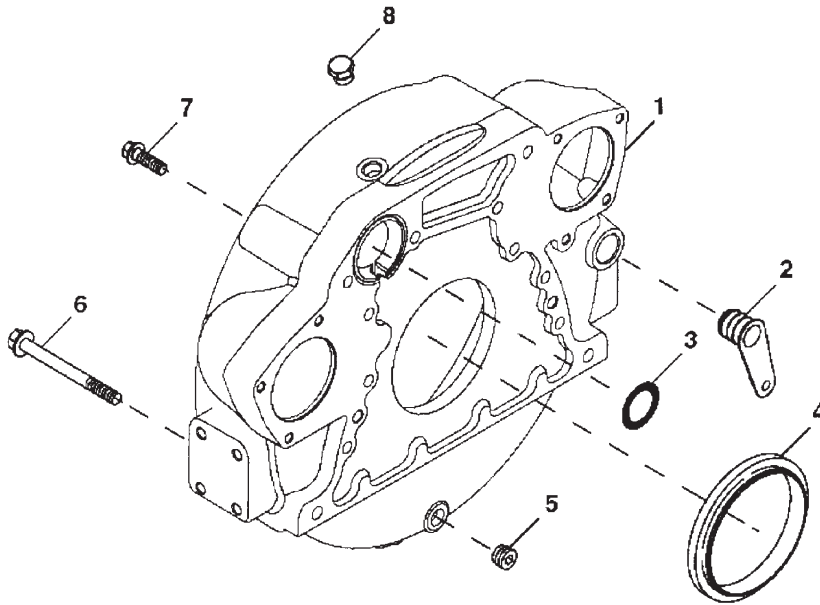
Cylinder Block



Cylinder Block

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE516155	1	Short Block (LP668D, formerly RE65960)	
	RE516153	1	Short Block (MP668T & MP80C, formerly RE65962)	
	RE516152	1	Short Block (LP668T - MP668H - NL668T2 & MP99C, formerly RE65981)	

Flywheel Housing

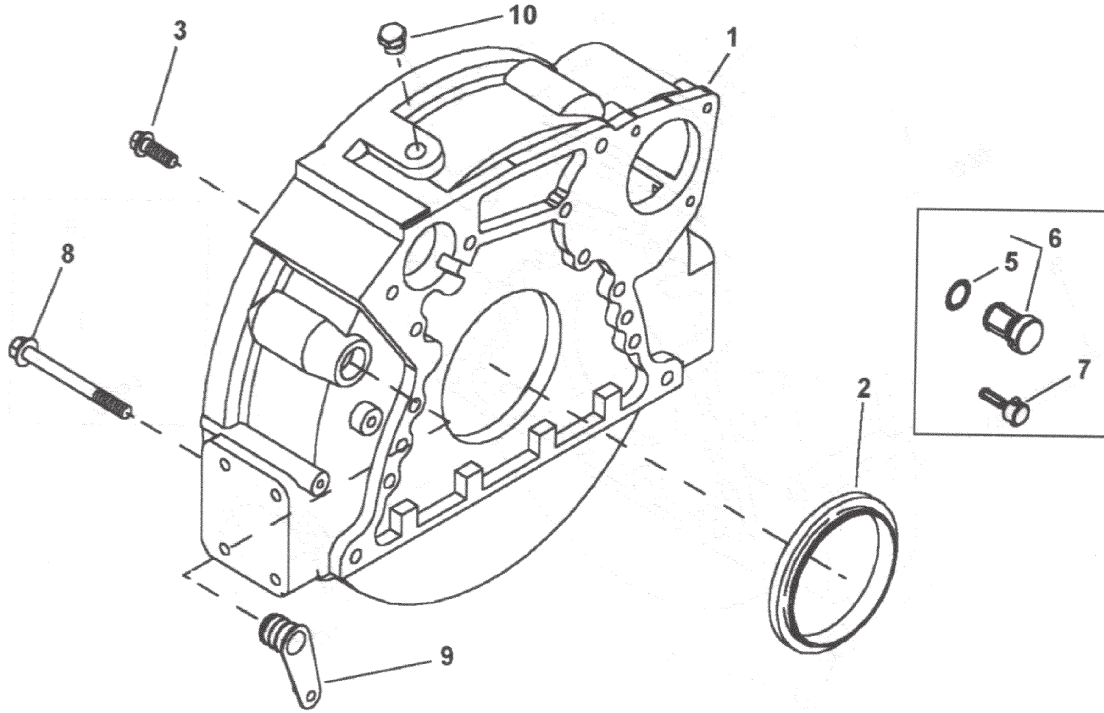


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RGP7315

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R500329	1	Flywheel Housing	-
2	R131769	1	Plug	-
3	R61467	1	O-ring	-
4	RE44574	1	Seal	-
5	15H624	1	Pipe Plug, 1/2"	-
6	19M8306	4	Capscrew, M12 x 50 mm	-
7	R135918	8	Bolt	-
8	R39112	1	Fitting	-

Flywheel Housing SAE #2

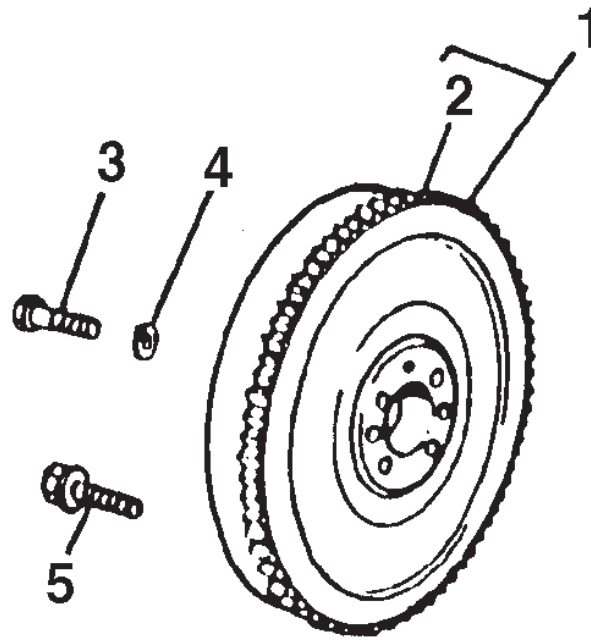


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RGP6019

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R500129	1	Flywheel Housing, SAE #2	-
2	RE44574	1	Seal	-
3	R135918	10	Bolt	-
5	R27149	1	O-ring	-
6	AR61533	1	Plug	-
7	AR61589	1	Plug	-
8	19M8306	4	Screw	-
9	R131769	1	Plug	-
10	T22867	1	Plug	-

Flywheel SAE #11-1/2

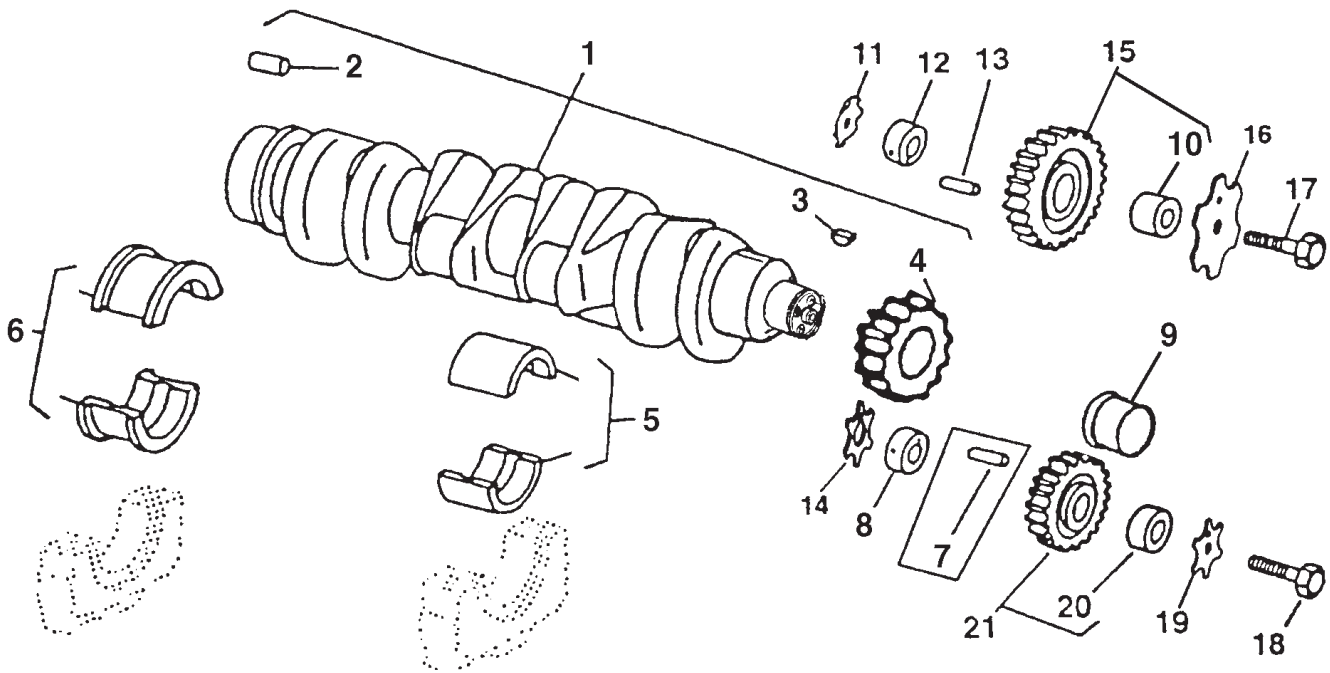


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TP58401

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	RE500398	1	Flywheel Assembly SAE #11-1/2 (marked 500219 - includes key #2)	-
2	R28811	1	Ring Gear (129 teeth)	-
3	19M7493	**	Cap Screw, M12 x 40	up to - 708963
4	T77258	**	Washer	up to - 708963
5	R135918	6	Bolt	from 708964 -
			**As required	

Crankshaft and Main Bearings

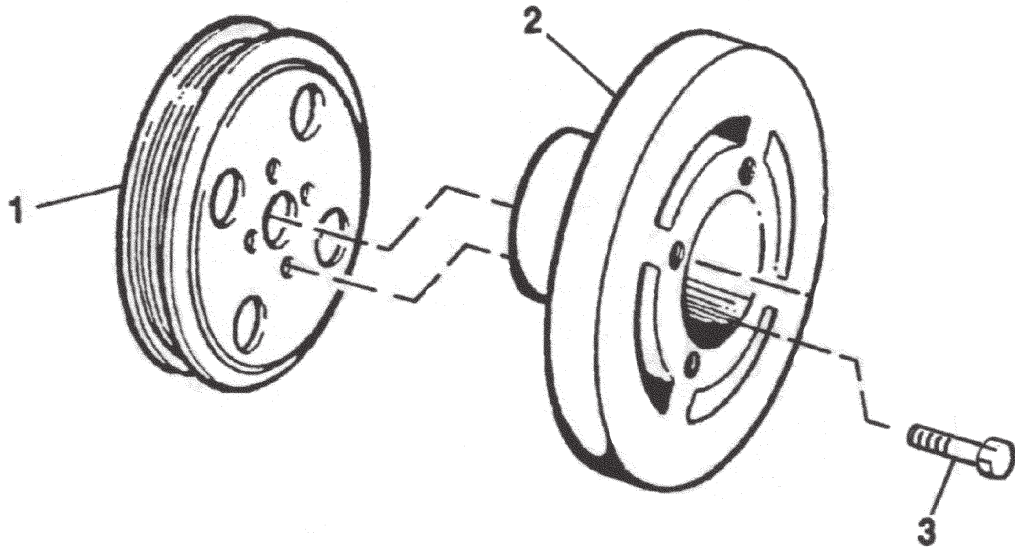


Crankshaft and Main Bearings

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE52850	1	Crankshaft (marked R116076, also order #9)	-
2	R48685	1	Dowel Pin	-
3	26M4224	1	Shaft Key	-
4	R120631	1	Gear (30 teeth)	-
5	RE65165	6	Bearing Kit, Standard	-
	RE65911	6	Bearing Kit (undersize .254 mm)	-
6	RE65168	1	Thrust Bearing Kit, Standard	-
	RE65912	1	Thrust Bearing Kit (undersize .254 mm)	-
7	34H283	**	Spring Pin	-
8	R114194	1	Shaft, Lower	-
9	RE59811	1	Sleeve (with installation tool)	-
10	RE56313	1	Gear, Upper Idler (marked R120635)	-
11	R123174	1	Lock Washer	-
12	R120641	1	Shaft, Upper	-
13	34H288	1	Spring Pin	-
14	R101225	1	Thrust Washer	-
15	R114193	1	Bushing	-
16	R131206	1	Thrust Washer	-
17	19M8997	1	Screw, M10 x 65	-
18	19M8966	1	Screw, M10 x 50	-
19	R131283	1	Thrust Washer	-
20	RE56369	1	Gear, Lower Idler	-

**As required

Crankshaft Pulley and Damper

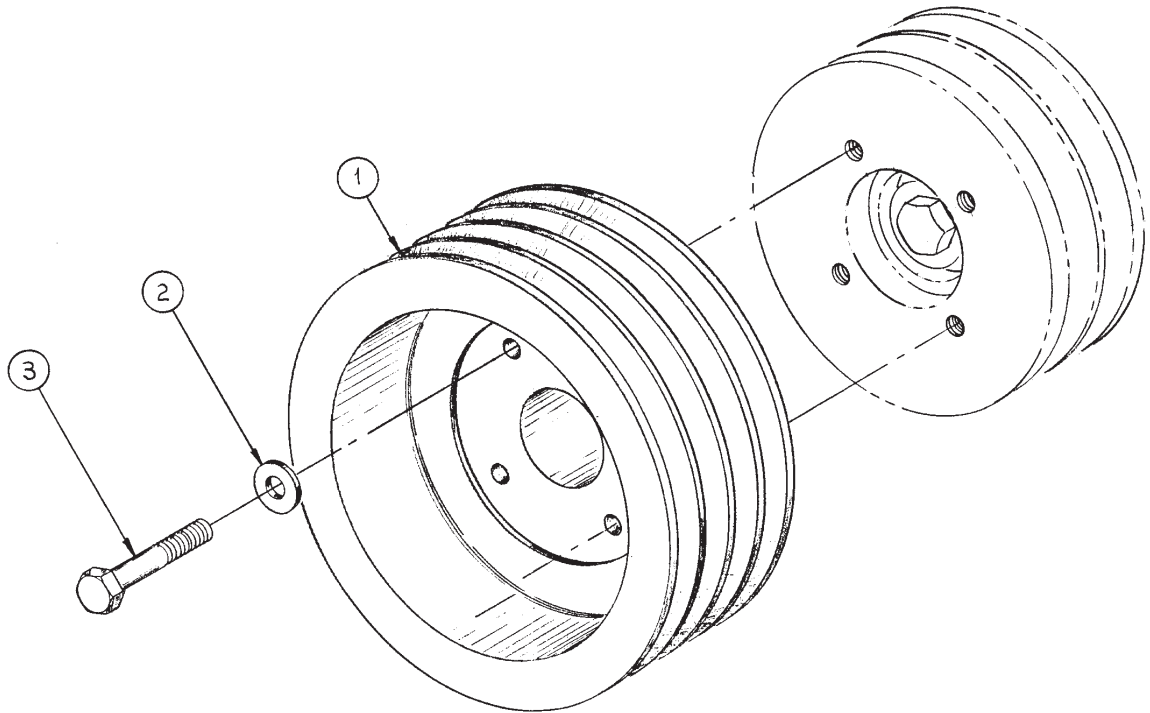


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TP50816

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R133296	1	Pulley, 188 mm O.D. (replaces R123188)	-
	R133295	1	Pulley, 168 mm O.D. (LP668D only)	-
2	RE59355	1	Torsional Dampener (marked R59355)	-
3	R121897	4	Capscrew, Hex Head Flanged M10 x 1.25 x 50 mm Grade 10.9	-

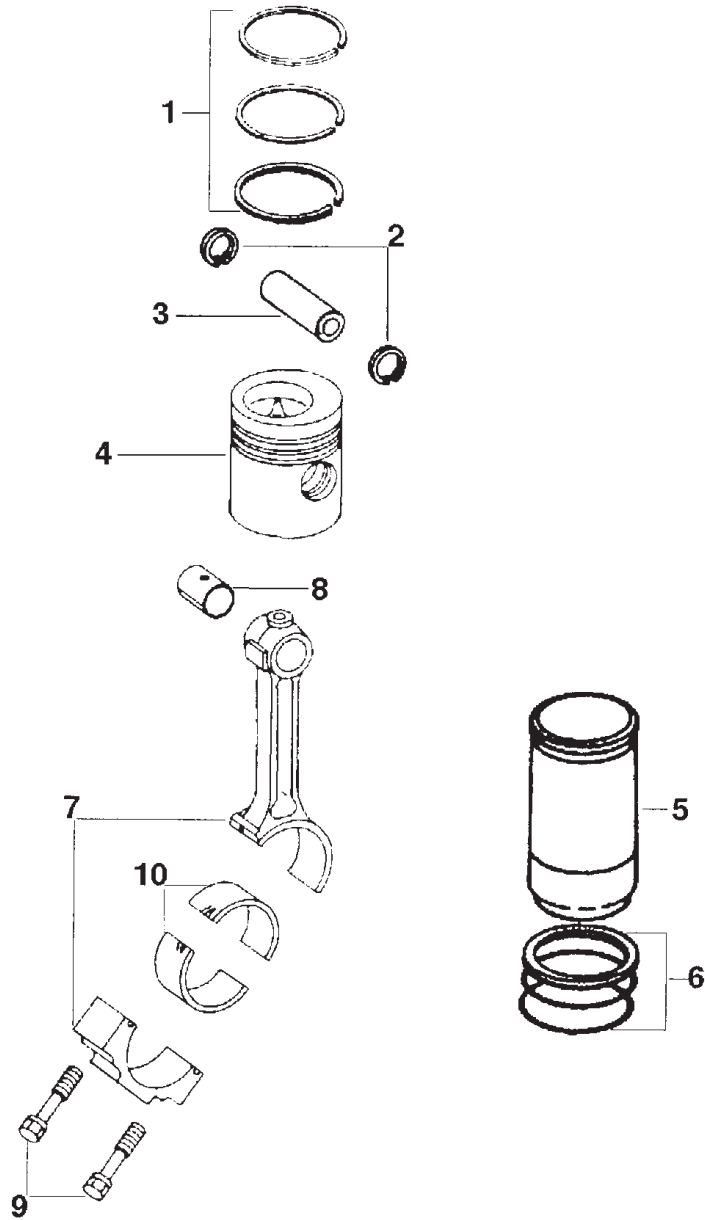
Crankshaft Pulley



A-8582, A-8583/ B-3732

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	34-69502	1	Pulley, Crankshaft, 3-A/B x 8"	-
	34-69501	1	Pulley, Crankshaft, 4-A x 8"	-
2	12-00318	4	Capscrew, Hex Head, 3/8-16 x 2-1/2"	-
3	15-00321	4	Flat Washer, 3/8" SAE	-

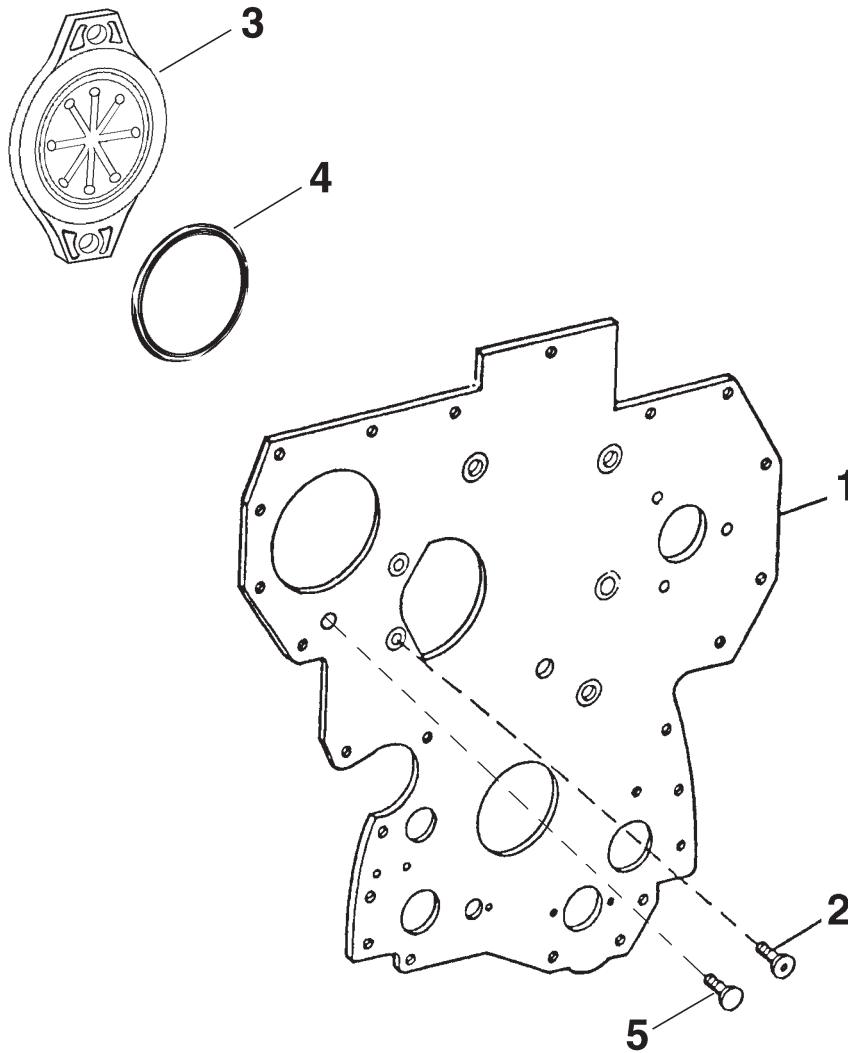
Cylinder Liner Assembly and Connecting Rod



Cylinder Liner Assembly and Connecting Rod

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
•	RE505110	6	Piston-Liner Kit (LP668D, includes keys 1, & 4-6, formerly RE65966)	-
••	RE505111	6	Piston-Liner Kit (MP668T, includes keys 1, & 4-6, formerly RE65967)	-
••	RE505112	6	Piston-Liner Kit (LP668T-MP668H & NL668T2, includes keys 1, & 4-6, formerly RE65969)	-
1	RE66271	6	Piston Ring Kit (LP668D - MP668T)	-
	RE66820	6	Piston Ring Kit (LP668T - MP668H - NL668T2)	-
2	M41029	12	Snap Ring (LP668D - MP668T)	-
	R54114	12	Snap Ring (LP668T - MP668H - NL668T2)	-
3	R123178	6	Piston Pin (LP668D - MP668T)	-
	R123177	6	Piston Pin (LP668T - MP668H - NL668T2)	-
4			Piston	-
5			Cylinder Liner } Not available separately	-
6	AR65507	6	O-ring Kit (Cylinder Liner)	-
7	RE60272	6	Connecting Rod (LP668D - MP668T, marked R123959, replaced by RE500002, includes keys 8-9)	up to 794054 Dubuque up to 036627 Torreón
	RE500002	6	Connecting Rod (LP668D - MP668T, marked R500000, includes keys 8-9)	from 794055 Dubuque from 036628 Torreón
	RE50770	6	Connecting Rod (LP668T - MP668H - NL668T2, replaced by RE500608, includes keys 8-9)	-
	RE500608	6	Connecting Rod (LP668T - MP668H, marked R500335, includes keys 8-9)	-
8	R123960	6	Bushing (LP668D, MP668T)	-
	R114082	6	Bushing (LP668T, MP668H, & NL668T2)	-
9	R114083	12	Screw	up to 794054 Dubuque up to 036627 Torreón
	R501124	12	Screw	from 794055 Torreón from 036628 Torreón
10	RE65908	6	Bearing (Standard)	-
	RE65909	6	Bearing (.010" undersize)	-
			Note: Cylinder Liner Shims, .002" #CD15466 and .004" #R65833, Refer to Workshop Manual CTM104 for application instructions.	

Timing Cover Plate

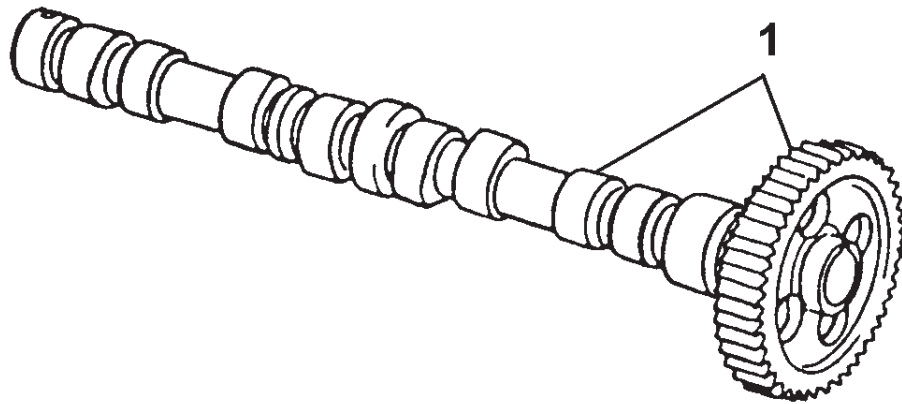


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TP50813ab

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	R121671		Plate*	up to - 703905
	R134526	1	Plate	from - 703906
2	R136475	6	Screw	up to - 703905
	R136475	4	Screw	up to - 703905
3	R135757	1	Cover	-
4	T20758	1	O-ring	-
5	19M7790	2	Capscrew, M12 x 1.75 x 35 mm	-
<p>*No longer available: Replaced by Plate 134526, Cover R501297, Gasket R136515, Stud 134518 (2 ea.), and Nut 14-80811 (2 ea.)</p>				

Camshaft

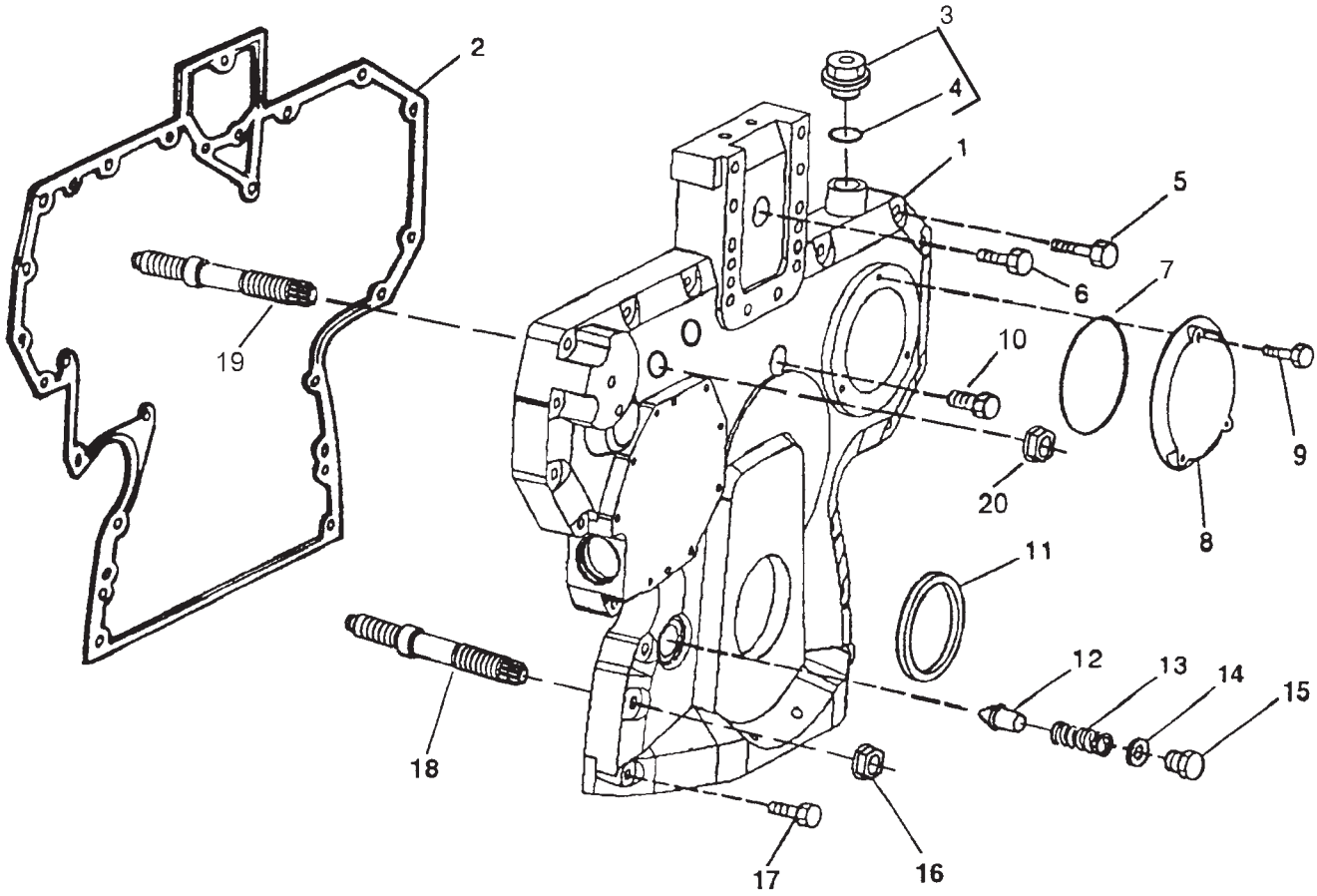


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TP60711

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE56578	1	Camshaft and Gear (marked R135440)	-

Timing Cover



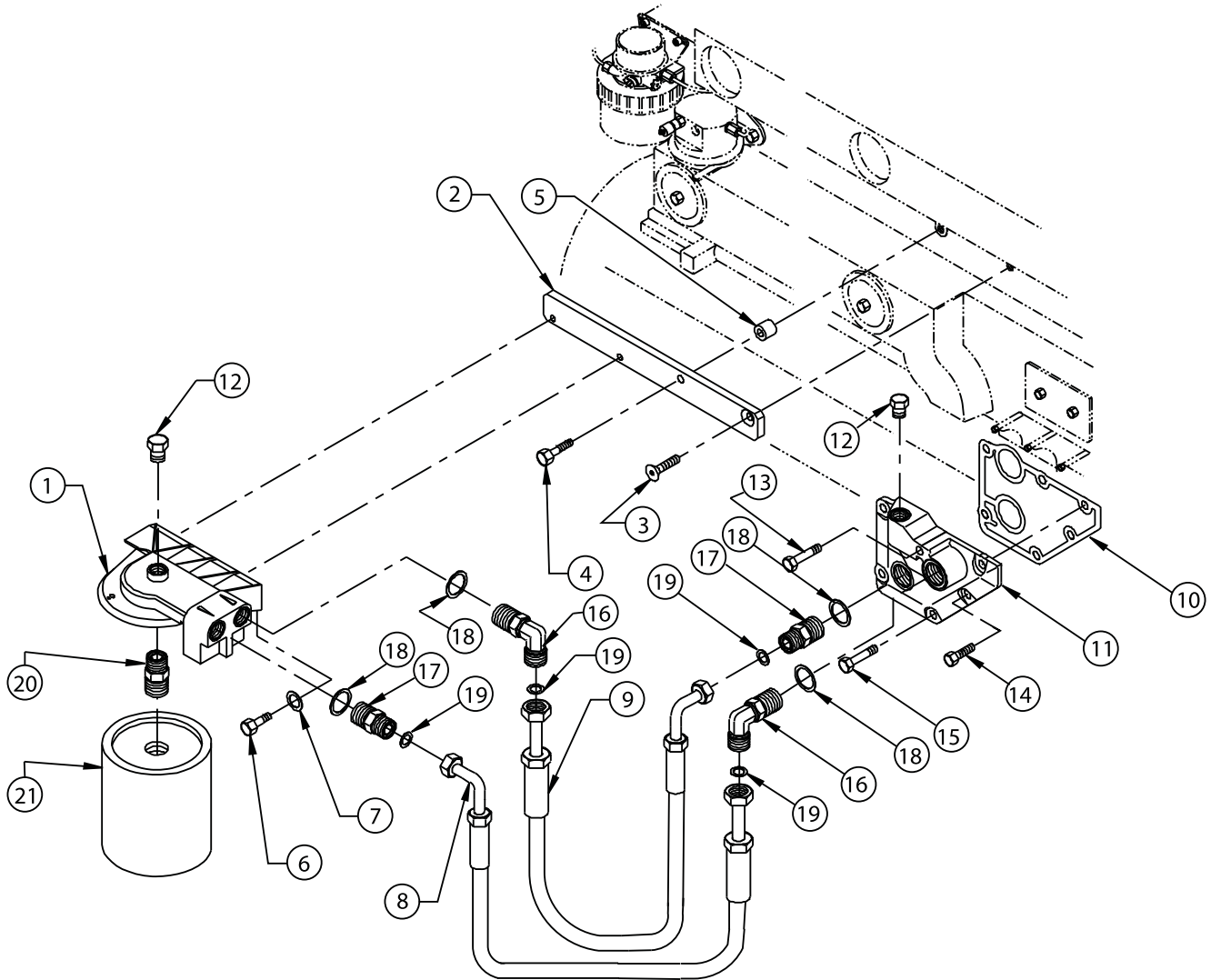
Timing Cover

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	R121625	1	Cover*	up to - 703904
	R501297	1	Cover	from 703905 -
2	R136515	1	Gasket	-
3	RE501938	1	Plug (includes key #4)	-
4	51M7044	1	O-ring	-
5	19M8317	10	Capscrew, M8 x 1.25 x 40 mm	-
	RE67239	1	Capscrew, M8 x 1.25 x 45 mm (with sealant)	-
6	19M8291	1	Capscrew, M8 x 1.25 x 35 mm	-
	19M7801	1	Capscrew, M8 x 1.25 x 60 mm	-
7	R121424	1	O-ring	-
8	R121411	1	Cover	-
9	19M7775	3	Capscrew, M6 x 1.0 x 16 mm	-
10	R67239	2	Capscrew, M8 x 1.25 x 45 mm (with sealant)	-
11	RE59810	1	Seal	-
12	R83169	1	Pressure Relief Valve	-
13	T27658	1	Spring	-
14	A4827R	1	Washer	-
15	T27657	1	Plug	-
16	14-80811	2	Flange Nut, M10 x 1.5	-
17	19M7979	2	Capscrew, M8 x 1.25 x 55 mm	-
18	R123584	4	Stud	-
19	R134518	2	Stud	from 703905 -
20	14-80811	2	Flange Nut, M10 x 1.5	from 703905 -

* No longer available. Replaced by Cover R501297, Gasket R136515, Stud R134518 (2 ea), and Hex Nut 14-80811 (2 ea).

Oil Filter Assembly and Mounting LP668

Early Production



A-8771/ B-6183

Oil Filter Assembly and Mounting LP668

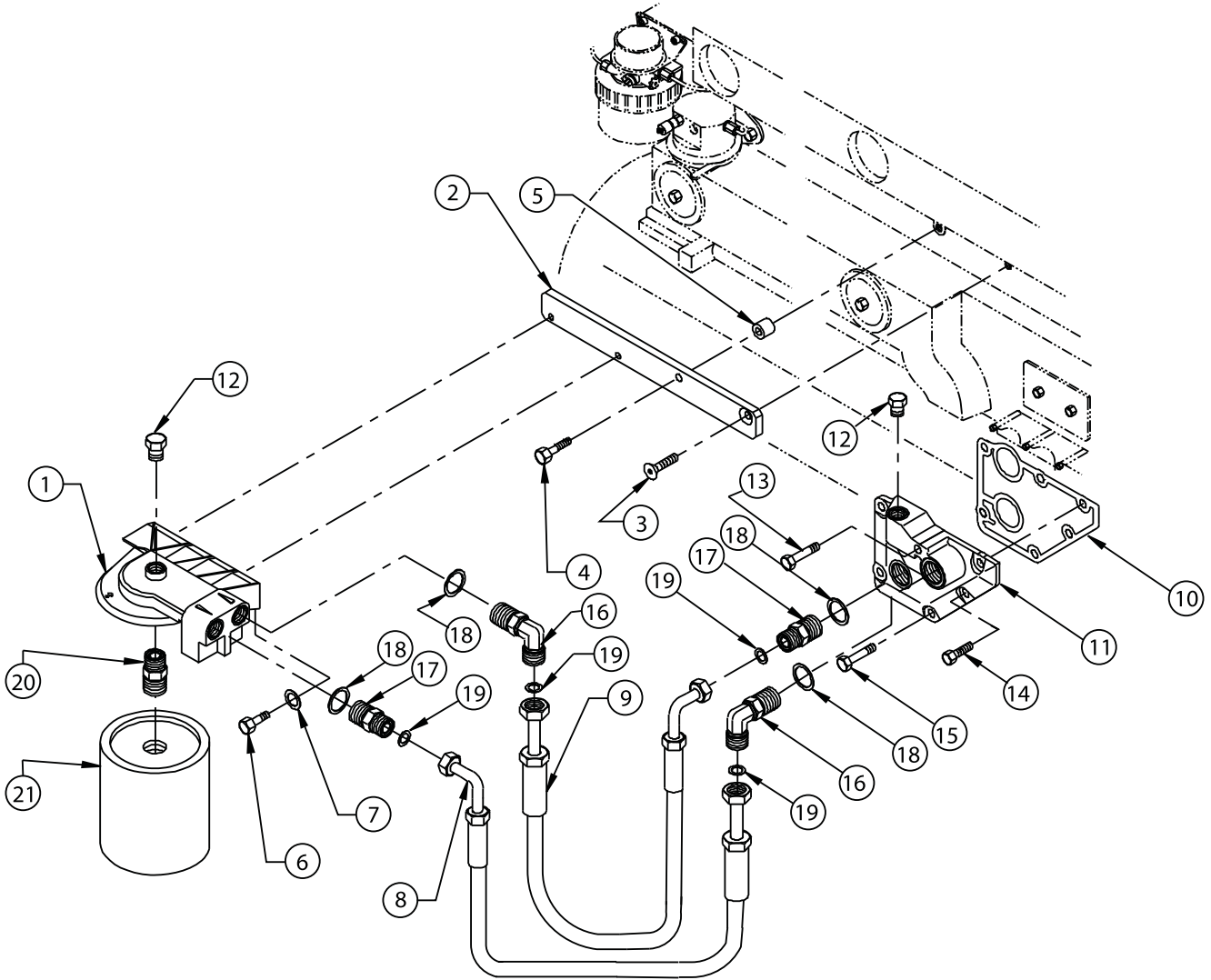
Early Production

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE60153	1	Oil Filter Head Assembly (Includes key #20)	-
2	23-09601	1	Bracket	-
3	12-10815	1	Capscrew, Flat Head, M10 x 1.5 x 40 mm	-
4	01435-01040	1	Capscrew, Hex Head Flanged, M10 x 1.5 x 40 mm	-
5	21-13110	1	Spacer	-
6	12-00809	2	Capscrew, Hex Head, M10 x 1.25 x 25 mm	-
7	15-00804	2	Wave Washer, M10	-
8	18-09601	1	Hose Assembly, 1/2" I.D. x 18"	-
9	18-09601	1	Hose Assembly, 1/2" I.D. x 18"	-
10	R123525	1	Gasket	-
11	RE71062	1	Adapter	-
12	RE52242	**	Plug	-
13	19M7913	1	Screw, M8 x 90	-
14	RE67238	1	Screw, M8 x 20 (with pre-applied sealant)	-
15	19M7802	4	Screw, M8 x 65	-
16	21-09505	4	Elbow Fitting (Includes keys #18 & 19)	-
17	21-09504	4	Adapter (Includes keys #18 & 19)	-
18	51M7045	4	O-ring	-
19	T77932	4	O-ring	-
20			Adapter (R123591 no longer available, replaced by RE60153)	-
21	24-01002	1	Oil Filter	-

**As required

Oil Filter Assembly and Mounting LP668

Late Production



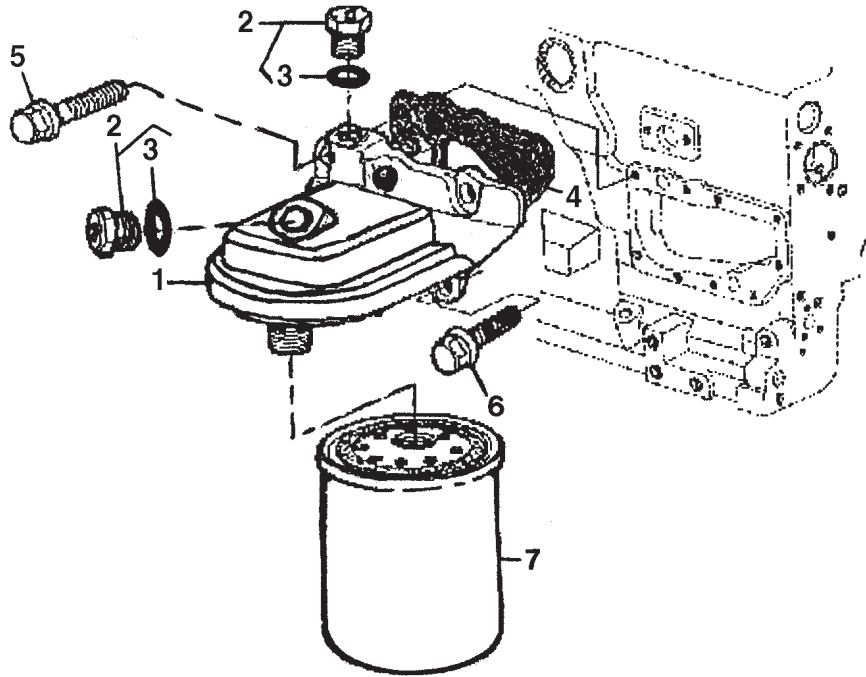
A-8771/ B-6183

Oil Filter Assembly and Mounting LP668

Late Production

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	31-79601	1	Oil Filter Head Assembly (Includes key #20)	-
2	23-09601	1	Bracket	-
3	12-10815	1	Capscrew, Flat Head, M10 x 1.5 x 40 mm	-
4	01435-01040	1	Capscrew, Hex Head Flanged, M10 x 1.5 x 40 mm	-
5	21-13110	1	Spacer	-
6	12-00809	2	Capscrew, Hex Head, M10 x 1.25 x 25 mm	-
7	15-00804	2	Wave Washer, M10	-
8	18-09401	1	Hose Assembly, 1/2" I.D. x 16"	-
9	18-09401	1	Hose Assembly, 1/2" I.D. x 16"	-
10	R123525	1	Gasket	-
11	RE71062	1	Adapter	-
12	RE52242	**	Plug	-
13	19M7913	1	Screw, M8 x 90	-
14	RE67238	1	Screw, M8 x 20 (with pre-applied sealant)	-
15	19M7802	4	Screw, M8 x 65	-
16	21-09504	4	Adapter (Includes keys #18 & 19)	-
17	21-09503	2	Plug, Socket Head M22 x 1.5 (Includes key#18)	-
18	51M7045	4	O-ring	-
19	T77932	4	O-ring	-
20			Adapter (no longer available separately - order #31-79601)	-
21	24-01002	1	Oil Filter	-
			**As required	

Oil Filter and Adapter

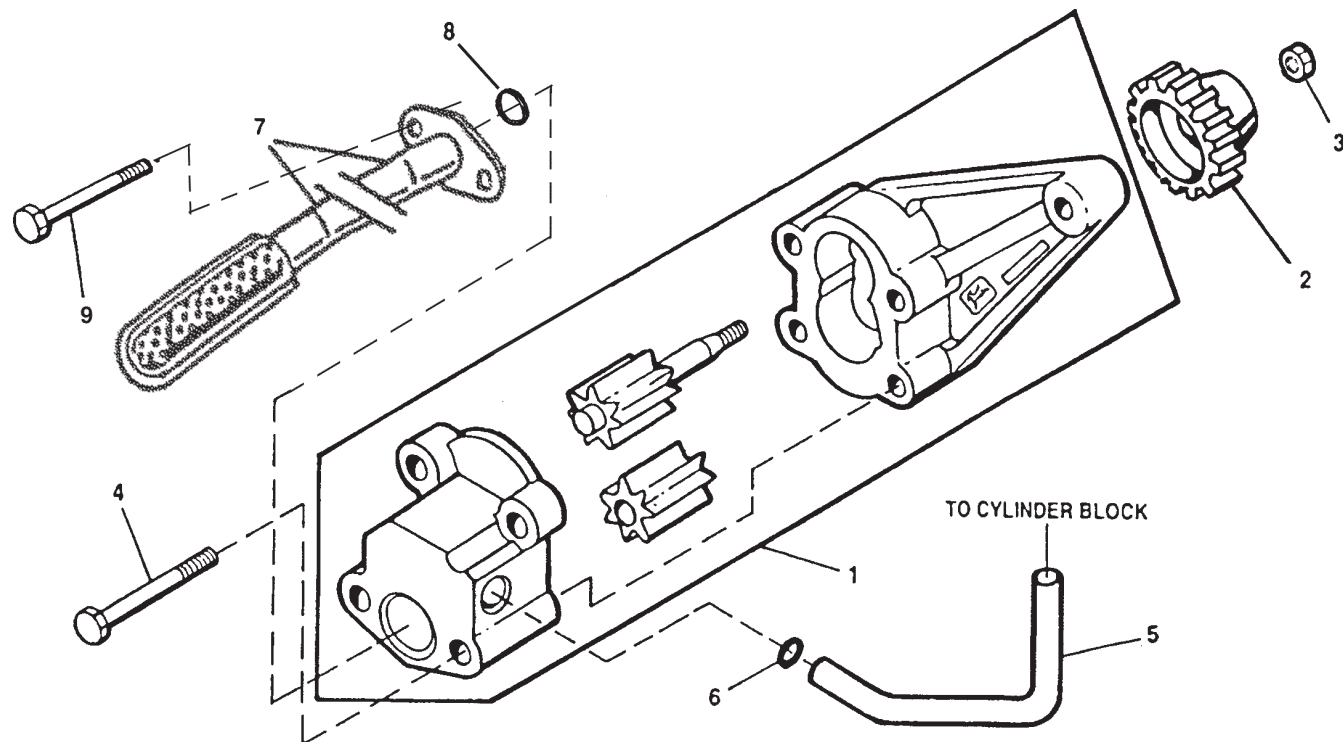


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TP61873

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE71598	1	Filter Head	-
2	RE52242	**	Plug (includes key #3)	-
3	51M7042	**	O-ring	-
4	R501484	1	Gasket	-
5	19M7802	5	Capscrew, M8 x 1.25 x 65 mm	-
6	RE67238	1	Capscrew, M8 x 1.25 x 20 mm	-
7	24-01002	1	Oil Filter	-
			**As required	

Oil Pump



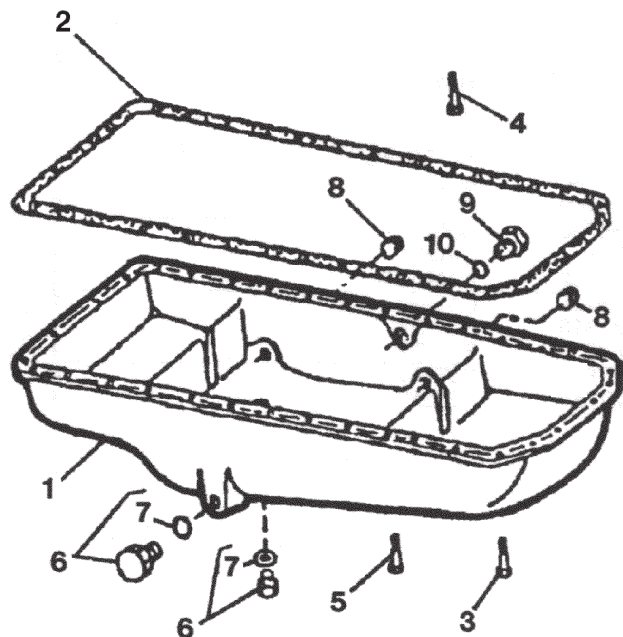
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TP49336& TP49656

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE504914	1	Oil Pump (marked R502687, formerly RE502269, RE70153, all marked R123179)	-
2	R120638	1	Gear (30 teeth)	-
3	14M7066	1	Nut, M12	-
4	19M8987	2	Screw, M8 x 65	-
5	R121376	1	Tube	-
6	R97185	1	O-ring	-
7	RE71143	1	Oil Pump Intake	-
8	R61871	1	O-ring	-
9	19M8986	2	Screw, M8 x 100	-

Oil Pan

Aluminum



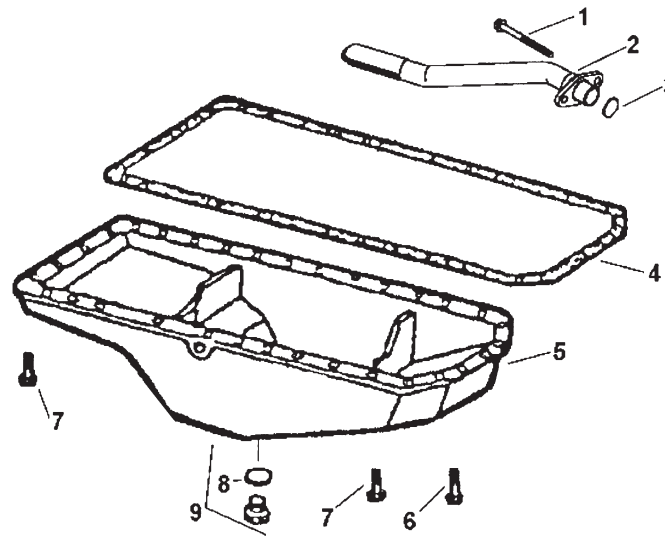
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TP62205

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R134898	1	Oil Pan	-
2	R123354	1	Gasket	-
3	12-80753	6	Screw, M8 x 30	-
4	19M7799	2	Screw, M8 x 45	-
5	19M7867	28	Screw, M8 x 25	-
6	RE46685	**	Plug, M18 x 1.5	-
7	16-09503	2	O-ring	-
8	21-13101	**	Plug, 1/2 NPT	-
9	RE46687	2	Plug	-
10	16-09501	1	O-ring	-
			**As required	

Oil Pan

Steel

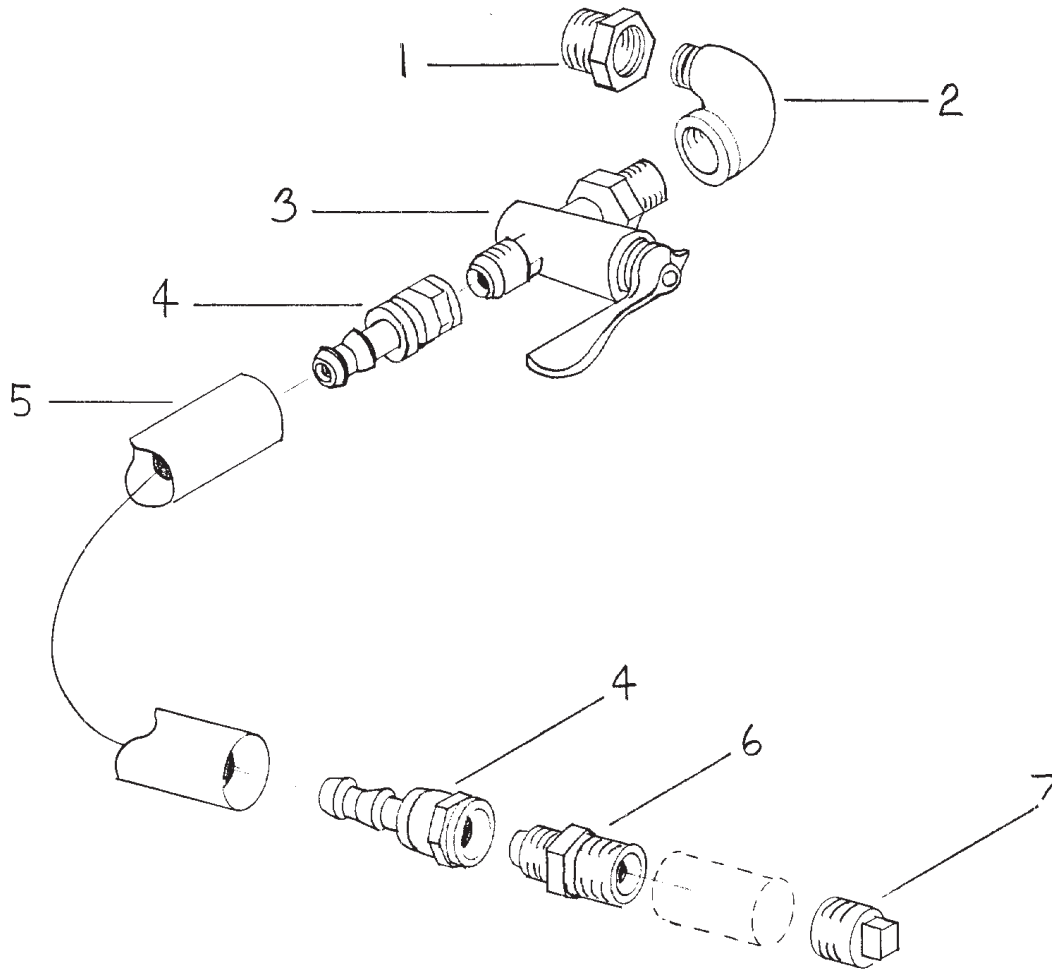


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RGP7618

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19M8986	2	Capscrew, M8 x 100	-
2	RE71143	1	Oil Pump Intake	-
3	R61871	1	O-ring	-
4	R500349	1	Gasket	-
5	RE500612	1	Oil Pan	-
6	19M8062	6	Capscrew, M8 x 20	-
7	19M8163	30	Capscrew, M8 x 16	-
8	16-09501	1	O-ring	-
9	RE46687	1	Drain Plug	-

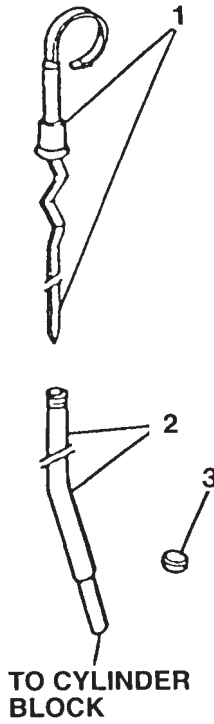
Oil Drain MP668



A-8425/ B-1563

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-79601	1	Female Swivel, Steel, M18 x 1.5 x 3/8-37T	-
2	21-00026	1	Female Elbow 90°, Steel, 3/8 NPT x 3/8-37T	-
3	36-71002	1	Shut off Valve	-
4	21-71042	2	Female Swivel, Brass, 1/2 Hose Barb x 1.2-45T	-
5	41-01032	18"	Hose, 1/2" I.D.	-
6	21-71040	1	Male Connector, Brass, 1/2 NPT x 1/2-45T	-
7	21-10005	1	Plug, Hex Head, Steel, 1/2 NPT	-
8	16-09503	1	O-ring (for adapter #1 - not shown)	-

Oil Dipstick



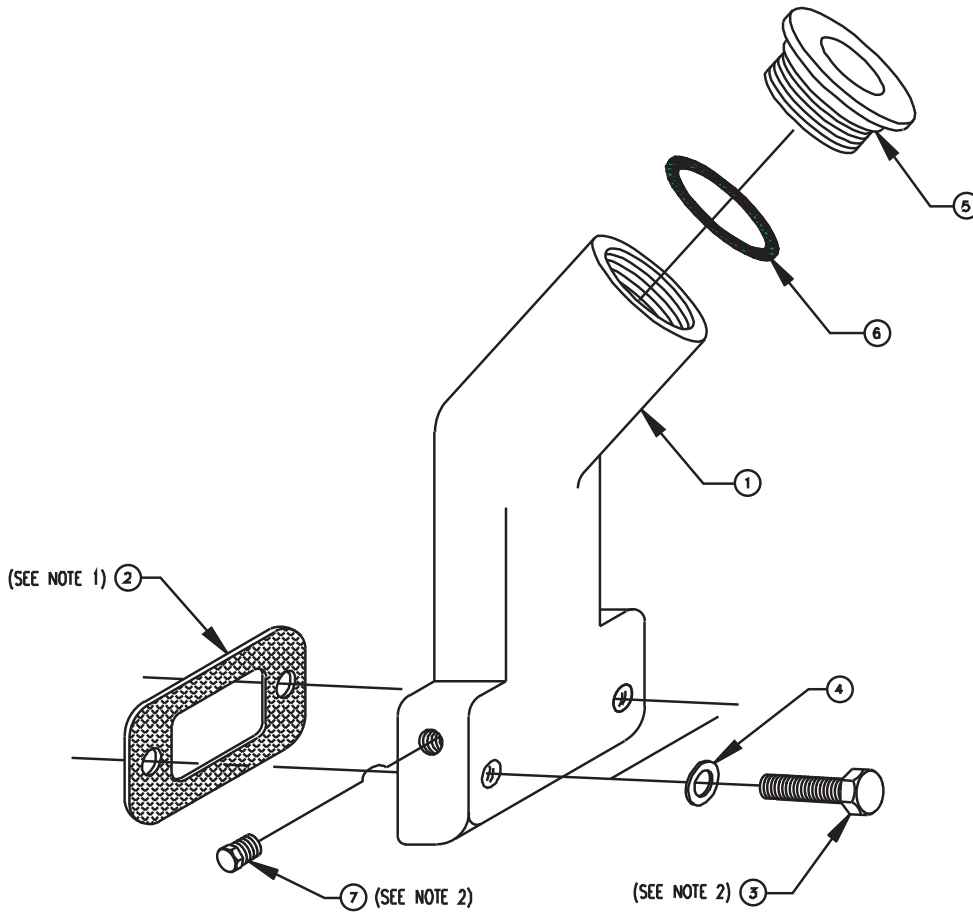
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TP50823

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE69243	1	Dipstick	-
2	R130055	1	Dipstick Tube	-
3	R134240	**	Plug (for unused tube location)	-
			**As required	

Oil Fill Assembly

Right Side or Left Side (Without Governor Actuator)



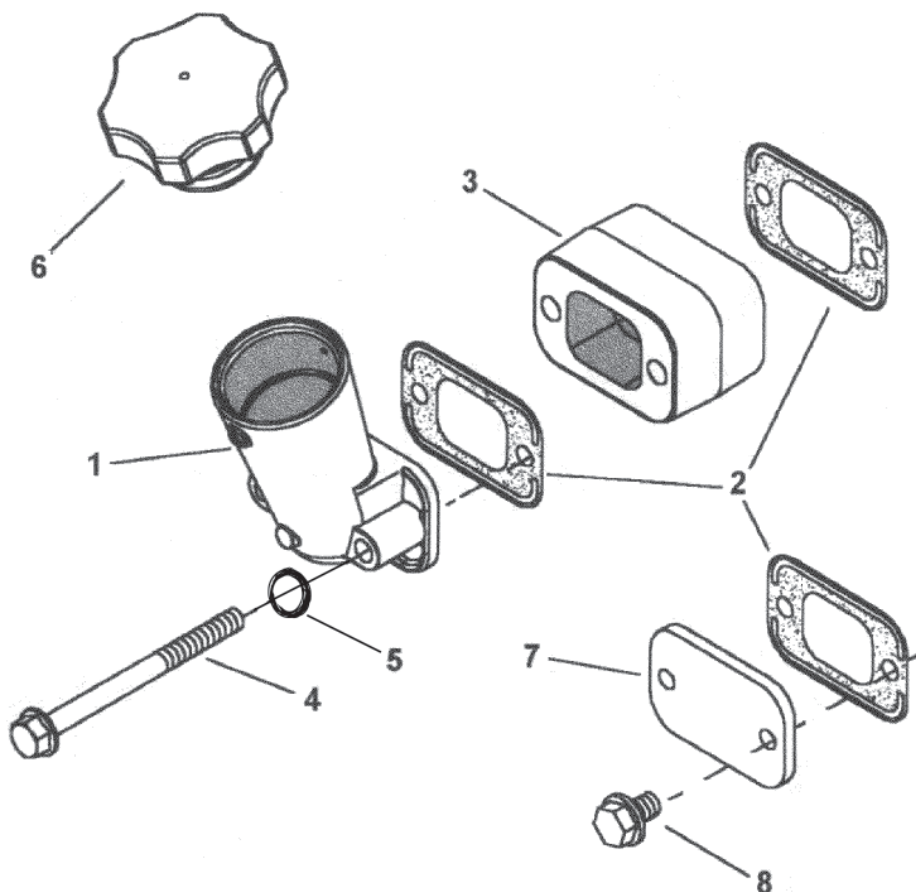
ASSEMBLY NOTES

- 1, INSTALL ITEM 2 WITH PREAPPLIED SEALANT TOWARDS ENGINE BLOCK.
- 2, INSTALL ITEMS 3 AND 7 WITH LOCTITE 567 (PST).

A-8347/ B-5846

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	36-01002	1	Oil Filler Neck	-
2	11-79501	1	Oil Filler Mounting Gasket	-
3	12-00714	2	Capscrew, Hex Head, M8 x 1.25 x 40 mm	-
4	15-00701	2	Flat Washer, M8	-
5	198436010	1	Oil Fill Cap	-
6	052300400	1	O-ring	-
7	21-00012	**	Plug, Hex Head, Brass, 1/8 NPT	-
			**As required	

Oil Fill Assembly, Left Side (with Governor Actuator) and Oil Fill Block-Off, Left or Right Side

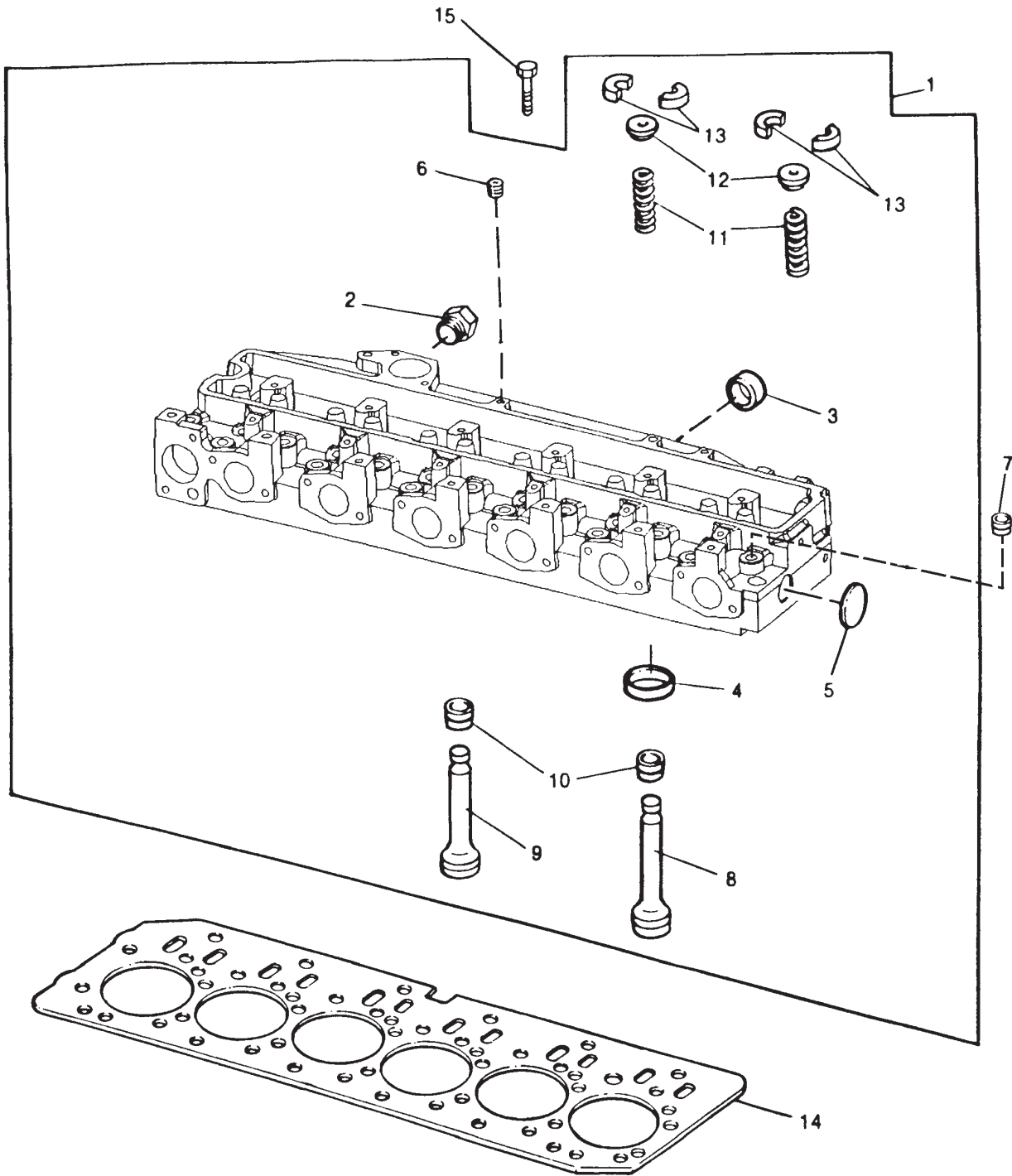


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RGP5993

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE501377	1	Filler Neck	-
2	11-79501	4	Gasket	-
3	R136514	1	Spacer	-
4	6132-11-4690	2	Capscrew, Hex Head, M8 x 1.25 x 115 mm	-
5	15-00805	2	Flat Washer, M8	-
6	RE500005	1	Filler Cap	-
7	R116296	1	Plate	-
8	RE67238	2	Screw, M8 x 20 (with pre-applied sealant)	-
9	21-79502	1	Spacer (use with actuator bracket, not shown)	-

Cylinder Head, Head Gasket, & Valves

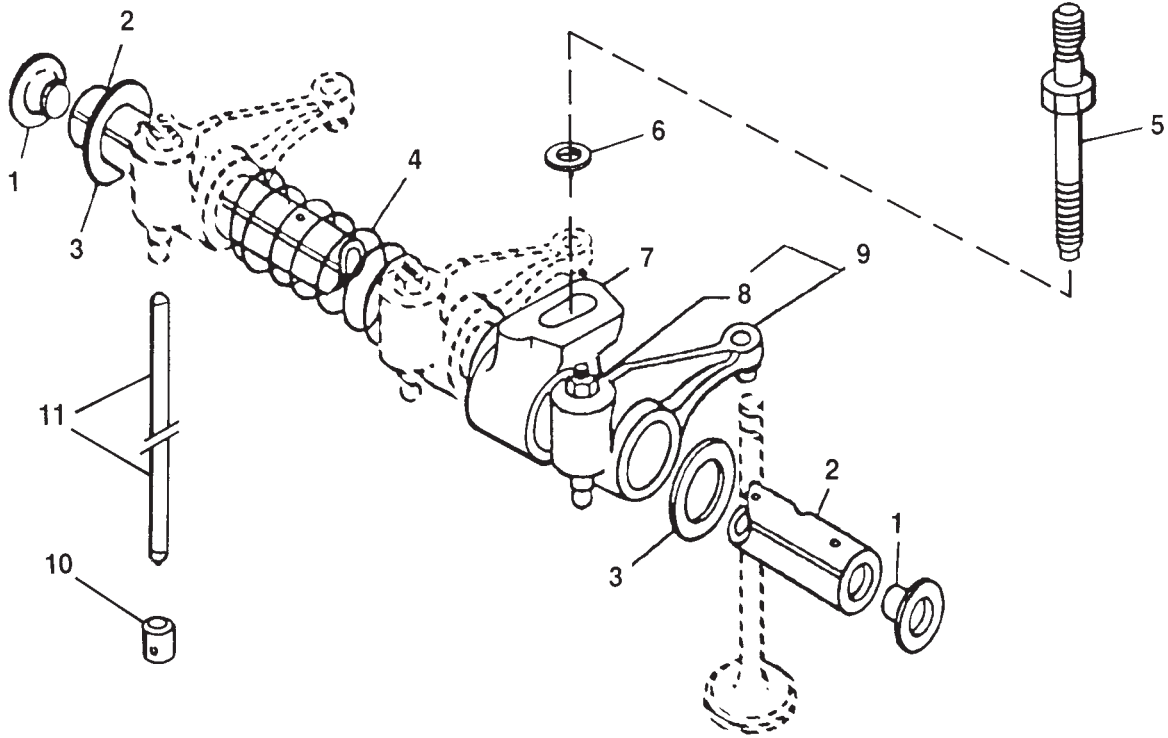


Cylinder Head, Head Gasket, & Valves

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE57237	1	Cylinder Head Assembly (LP668D, marked R121403, includes keys 2-6 & 8-13)	-
	RE57489	1	Cylinder Head Assembly (MP668T-H & NL668T2, marked R121608, includes keys 2-6 & 8-13)	-
2	21-09507	**	Plug, Socket Head 5/8 O-ring Port	-
3	R43409	3	Cap	-
4	R98063	6	Valve Seat Insert, Standard Size Intake Valve	-
	R98335	6	Valve Seat Insert, Oversize Intake Valve	-
	R85687	6	Valve Seat Insert, Standard Size Exhaust Valve	-
	R93910	6	Valve Seat Insert, Oversize Exhaust Valve	-
5	CD16284	1	Cap	-
6	R104592	1	Pipe Plug	-
7	21-13101	**	Plug, 1/2 NPT	-
8	R90692	6	Exhaust Valve, Standard	-
	R97492	**	Exhaust Valve, .015" Oversize	-
	R97493	**	Exhaust Valve, .030" Oversize	-
9	R98062	6	Intake Valve, Standard	-
	R97490	**	Intake Valve, .015" Oversize	-
	R97491	**	Intake Valve, .030" Oversize	-
10	RE31617	12	Seal	-
11	R26125	12	Spring	-
12	RE60005	12	Rotater	-
13	R91889	24	Retainer	-
14	R116516	1	Engine Cylinder Head Gasket	-
15	R85363	26	Capscrew	-

**As required

Rocker Arm Assembly & Push Rods

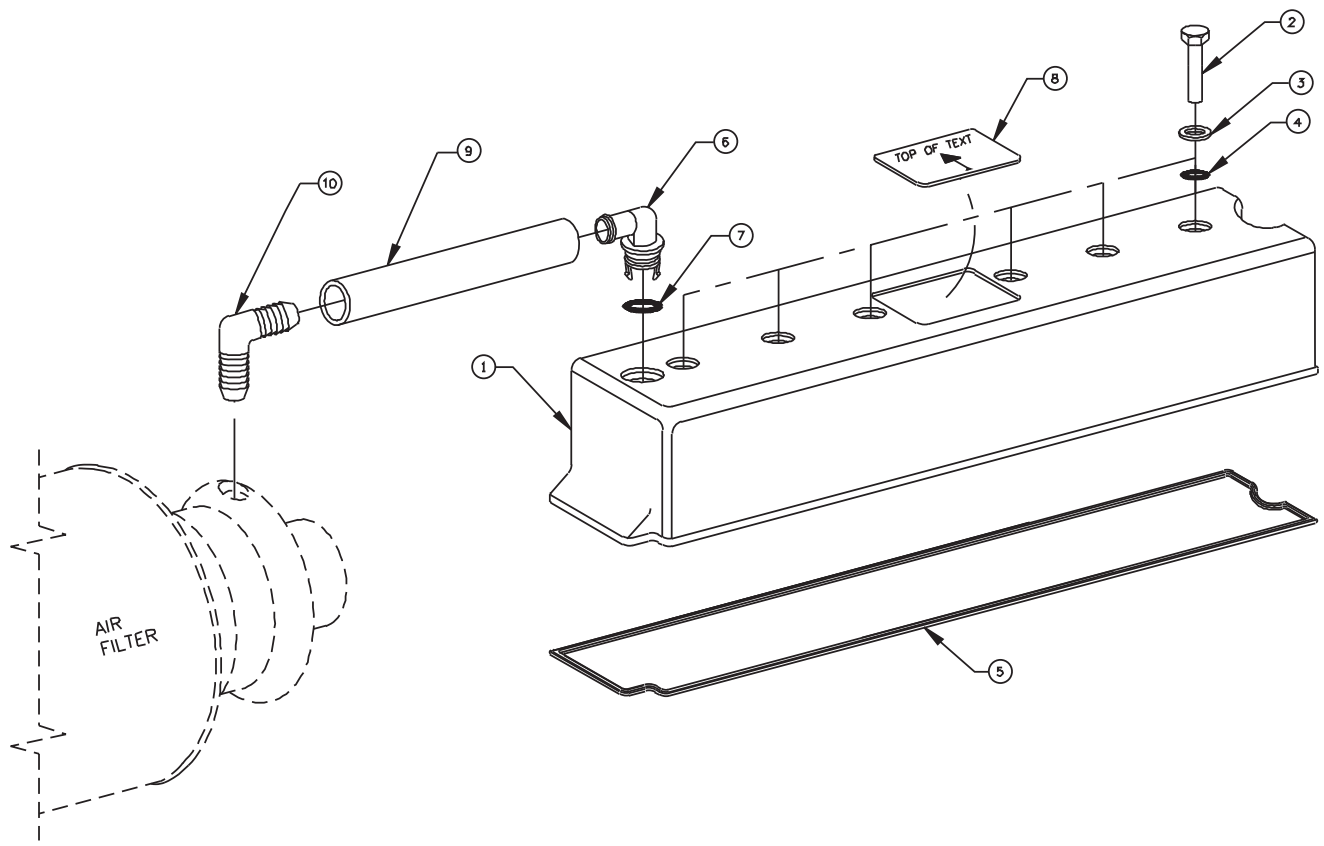


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TP49263

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R54565	2	Plug	-
2	R123514	1	Rocker Arm Shaft	-
3	T20316	2	Washer	-
4	T20314	3	Spring	-
5	R123271	6	Stud	-
6	R42729	6	Washer	-
7	R123161	6	Support	-
8	14M7273	1	Nut, M8	-
9	RE68695	12	Rocker Arm	-
10	R123565	12	Cam Follower	-
11	R107731	12	Push Rod	-

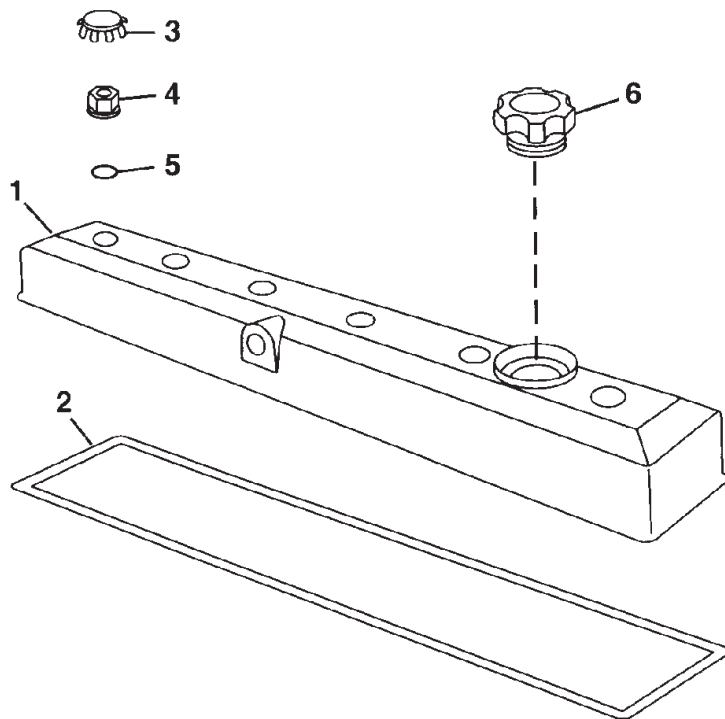
Rocker Arm Cover LP-MP668



A-8282/ C-4163

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-09602	1	Rocker Arm Cover	-
2	14-71002	6	Hex Nut, M8 x 1.25 x 53.5 mm, Special	-
3	15-09007	6	Flat Washer, M12 S/S	-
4	16-15005	6	O-ring	-
5	R123543	1	Gasket, Rocker Arm Cover Mounting	-
6	R120467	1	Elbow, Vent System Connection	-
7	16-01000	1	O-ring	-
8	00-09504	1	Label, "Powered by Luggier"	-
	00-09507	1	Label, "Northern Lights"	-
9	41-00004	**	Hose, 3/4" I.D. (sold per inch)	-
10	21-00025	1	Vent Elbow	-
			**As required	

Rocker Arm Cover NL668T2

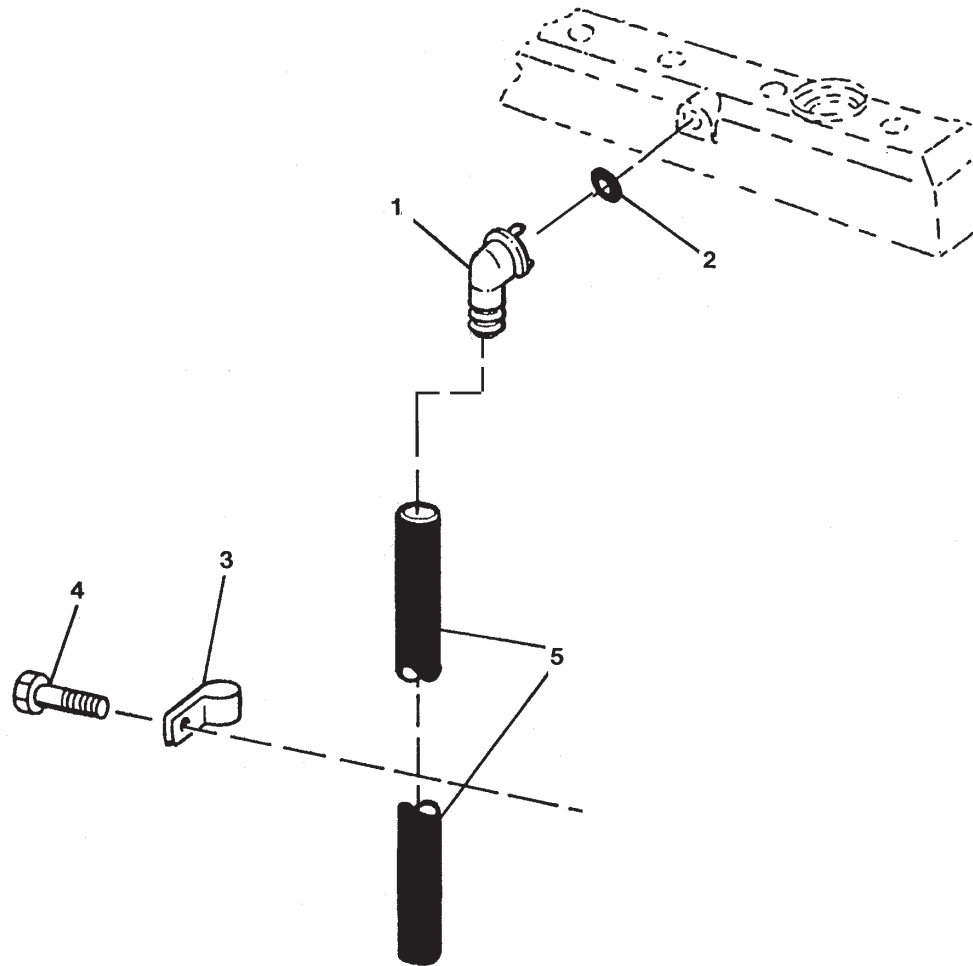


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TP55085

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE502987	1	Valve Cover	-
2	R123543	1	Gasket	-
3	H23125	6	Plug	-
4	R123574	6	Nut	-
5	R123575	6	O-ring	-
6	RE500005	1	Filler Cap	-

Ventilating System



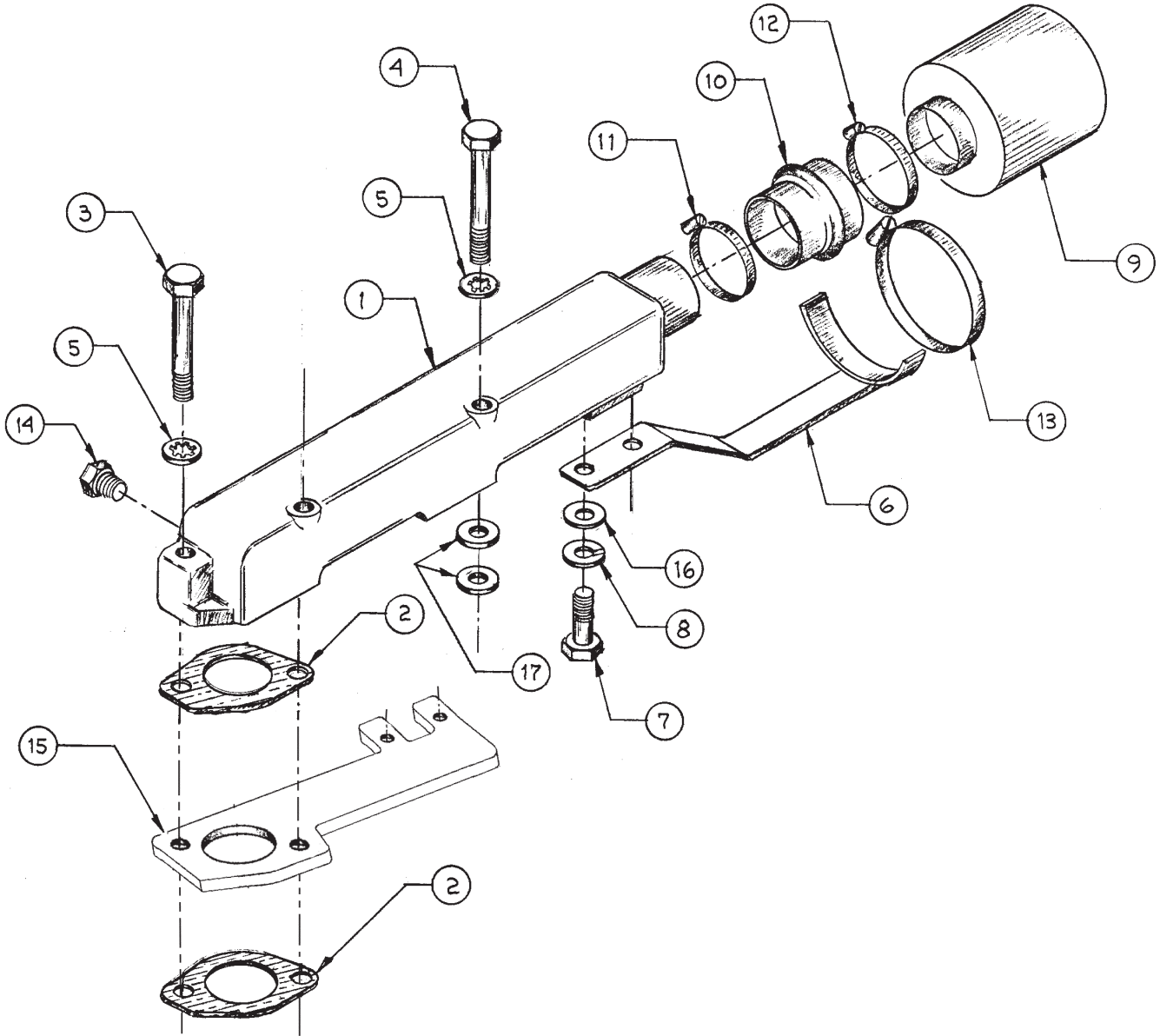
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TP61896

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R120467	1	Elbow Fitting, 90°	-
2	R72328	1	O-ring	-
3	R72659	1	Clamp	-
4	19M7866	1	Screw, M8 x 20	-
5	41-00004	53"	Hose, 3/4" I.D.	-

Intake Manifold & Air Filter LP668D

Propulsion Units



A-8425/ B-2222

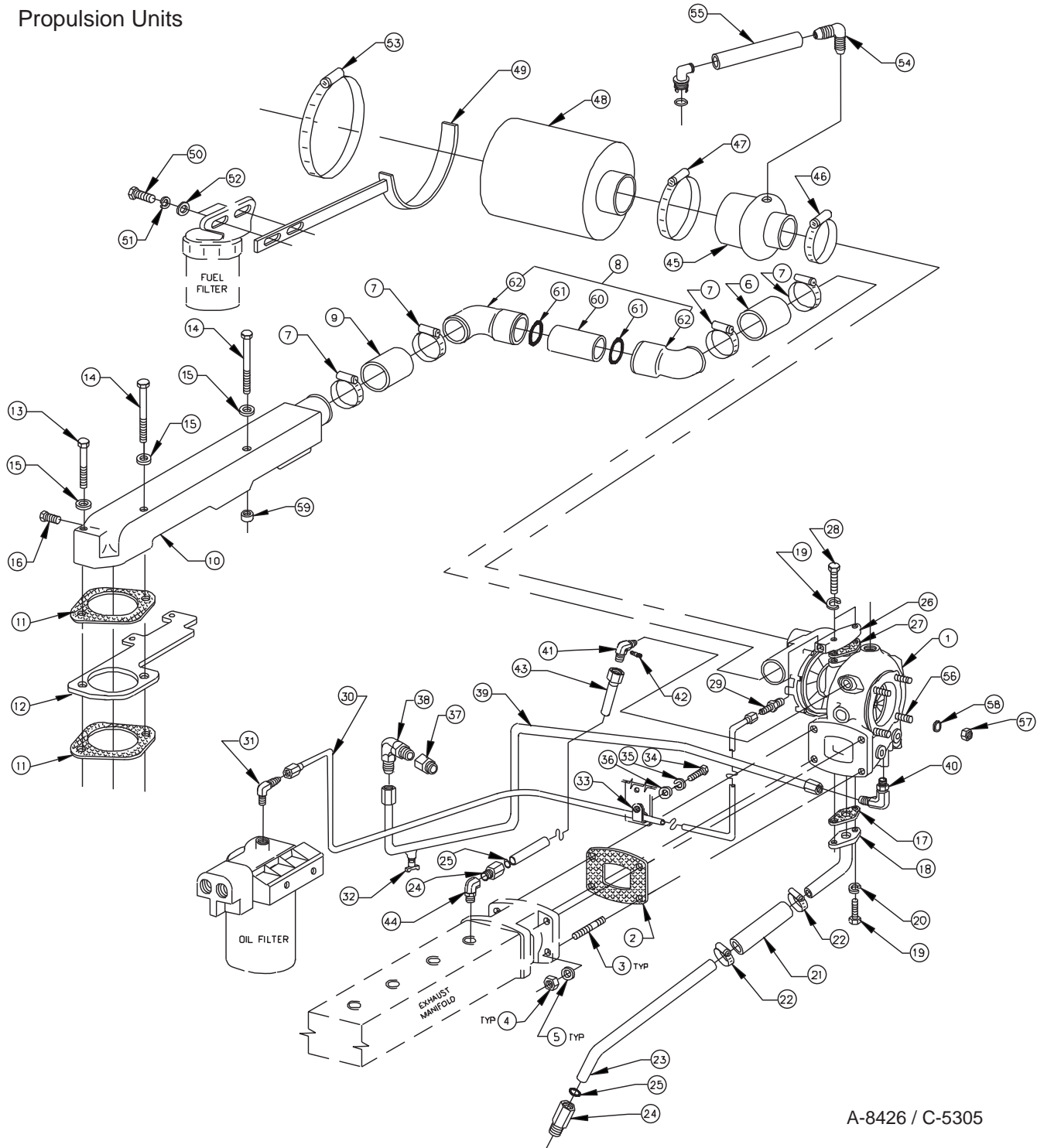
Intake Manifold & Air Filter LP668D

Propulsion Units

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-21607	1	Intake Manifold	-
2	11-21011	2	Gasket	-
3	12-00819	1	Capscrew, Hex Head, M10 x 1.5 x 75 mm	-
4	12-00088	2	Capscrew, Hex Head, M10 x 1.5 x 95 mm	-
5	15-00804	3	Wave Washer, M10	-
6	23-21610	1	Bracket	-
7	12-00311	2	Capscrew, Hex Head 3/8-16 x 3/4"	-
8	15-00302	2	Lock Washer 3/8"	-
9	24-21000	1	Air Filter	-
10	18-21004	1	Hump Hose	-
11	19-00036	1	Hose Clamp #36	-
12	19-00072	1	Hose Clamp #72	-
13	19-00128	1	Hose Clamp #128	-
14	21-00012	1	Plug, Hex Head, Brass 1/8 NPT	-
15	23-49507	1	Bracket, Circuit Breaker & Relay Panel Mounting	-
16	15-00301	2	Flat Washer 3/8"	-
17	15-00807	3	Stud Washer	-

Intake, Turbocharger, and Air Filter Assembly

Propulsion Units



A-8426 / C-5305

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	30-31627-1	1	Turbocharger - K27	-
2	11-31615	1	Gasket	-
3	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA)	-
4	14-00817	4	Hex Nut, M10 x 1.5 S/S	-
5	15-00804	4	Wave Washer, M10	-
6	18-21016	1	Hose, 2" I.D. x 1-3/4" 3 Ply Silicone	-
7	19-01028	4	Hose Clamp #28	-

Intake, Turbocharger, and Air Filter Assembly

Propulsion Units

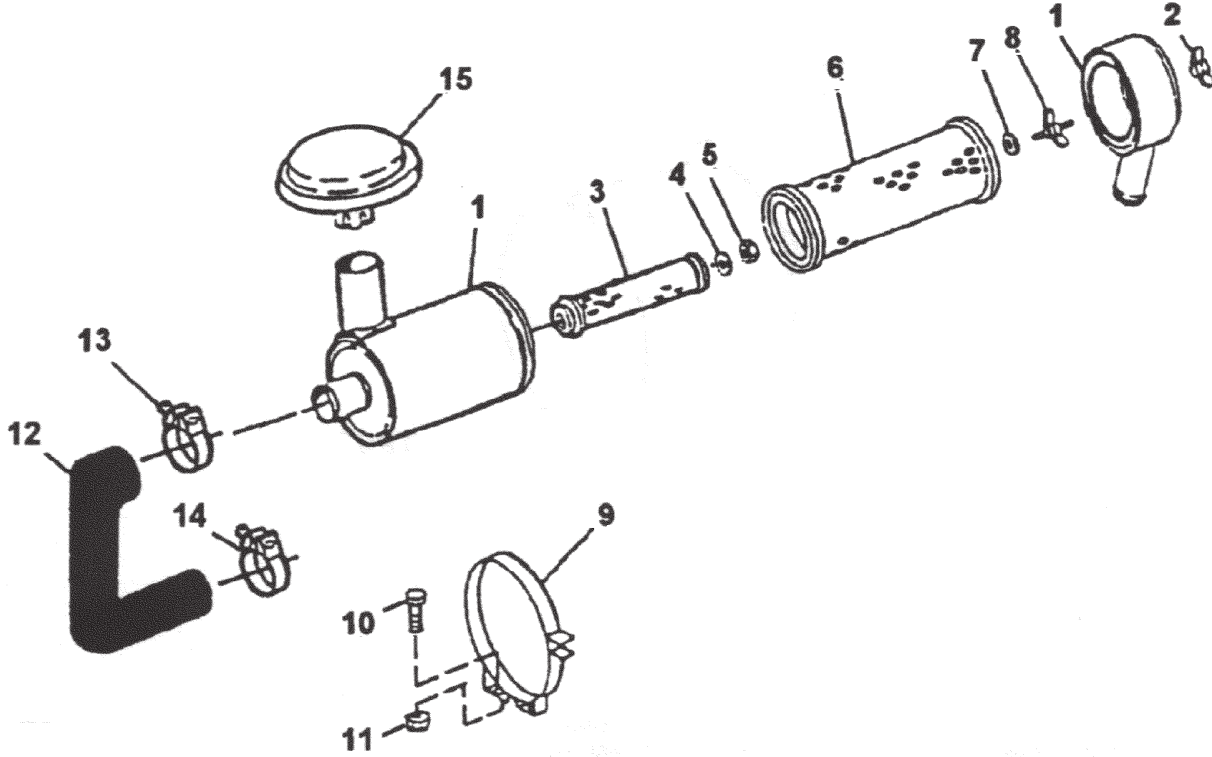
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
8	27-21010	1	Intake Tube Assembly (includes keys 60-62)	-
9	18-21014	1	Hose, 2" I.D. x 2-3/8"	-
10	10-21607	1	Intake Manifold	-
11	11-21011	1	Gasket	-
12	23-49507	1	Bracket, Circuit Breaker & Relay	-
13	12-00819	1	Capscrew, Hex Head M10 x 1.5 x 75 mm	-
14	12-00088	2	Capscrew, Hex Head M10 x 1.5 x 95 mm	-
15	15-00804	3	Wave Washer M10	-
16	21-00012	1	Plug, Hex Head Brass 1/8 NPT	-
17	11-31031	1	Gasket	-
18	27-31602	1	Pipe, Turbo Oil Return (Upper)	-
19	12-00711	2	Capscrew, Hex Head M8 x 1.25 x 20 mm	-
20	15-00702	4	Lock Washer, Helical M8	-
21	18-11010	1	Hose 3/4" ID x 4-1/4" 3 Ply Silicon	-
22	19-01012	2	Hose Clamp #12	-
23	27-31402	1	Pipe, Turbo Oil Return (Lower)	-
24	R41285	2	Adapter	-
25	16-01000	2	O-ring	-
26	R43928	1	Adapter	-
27	11-31012	1	Gasket	-
28	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40 mm	-
29	21-52800	1	Male Connector, Steel 3/8 NPT x 3/8-37T	-
30	27-39603	1	Tube Assembly, Turbo Oil Supply (supercedes 27-39602)	-
31	21-09501	1	Male Elbow 90° Steel M16 x 1.5 x 3/8-37T	-
32	21-10002	1	Drain Cock, Brass 1/4 NPT	-
33	19-72252	1	Adelle Clamp 3/8" ID x 3/8" Stud	-
34	12-00751	1	Capscrew, Hex Head M8 x 1.25 x 16 mm	-
35	15-00702	1	Lock Washer, Helical M8	-
36	15-00701	1	Flat Washer M8	-
37	21-60019	1	Female Adapter, Steel 1" NPT x 1-1/4	-
38	21-62800	1	Male Elbow 90° Steel 1" NPT x 3/4-37T	-
39	27-19605	1	Tube Assembly, Turbo Coolant Supply	-
40	21-14801	1	Male Elbow 90° Steel M22 x 1.5 x 3/4-37T	-
41	21-14817	1	Male Elbow 90° Steel M22 x 1.5 x 3/4-37T	-
42	21-10001	1	Drain Cock, Brass 1/8 NPT	-
43	27-39601	1	Tube Assembly, Turbo Coolant Return	-
44	21-03459	1	Female Elbow 90° Steel	-
45	18-21003	1	Hump Hose 4" x 2-3/4" x 4" LOA	-
46	19-00044	1	Hose Clamp #44	-
47	19-00072	1	Hose Clamp #72	-
48	24-21000	1	Air Filter	-
49	23-21000	1	Bracket, Air Filter Mtg.	-
50	12-00814	2	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
51	15-00802	2	Lock Washer, Helical M10	-
52	15-00805	2	Flat Washer M10	-
53	19-00128	1	Hose Clamp #128	-
54	21-00025	1	Male Elbow 90° PVC 3/4 HB x 3/4 HB	-
55	41-00004	9	Hose 3/4" ID 1 Ply, SAE	-
56	13-00814	4	Stud M10 x 1.5 x 30 mm	-
57	14-00817	4	Hex Nut M10 x 1.5 S/S	-
58	15-00804	4	Wave Washer M10	-
59	21-75402	1	Spacer	-
60	27-21002	1	Tube	-
61	16-21001	2	O-ring	-
62	27-21001	2	Intake Elbow	-

Intake, Turbocharger, and Air Filter Assembly

Marine Generator Units

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	30-21400-1	1	Turbocharger - MP668QT (see Parts Detail)	-
	30-31426-1	1	Turbocharger - MP668T-H (see Parts Detail)	-
2	11-31401	1	Gasket	-
3	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA)	-
4	14-00817	4	Hex Nut, M10 x 1.5 S/S	-
5	15-00804	4	Wave Washer, M10	-
6	18-21016	1	Hose, 2" I.D. x 1-3/4" 3 Ply Silicone	-
7	19-01028	4	Hose Clamp #28	-
8	27-21010	1	Intake Tube Assembly (Includes keys #50-52)	-
9	18-21014	1	Hose, 2" I.D. x 2-3/8"	-
10	10-21607	1	Intake Manifold	-
11	11-21011	1	Gasket	-
12	12-00071	1	Cap Screw, Hex Head, M10 x 1.5 x 70 mm	-
13	12-00051	2	Cap Screw, Hex Head, M10 x 1.5 x 90 mm	-
14	15-00804	3	Wave Washer, M10	-
15	21-00012	1	Plug, Hex Head, Brass 1/8 NPT	-
16	11-31031	1	Gasket	-
17	27-31602	1	Pipe, Turbo Oil Return (Upper)	-
18	12-00711	2	Cap Screw, Hex Head, M8 x 1.25 x 20 mm	-
19	15-00702	4	Lock Washer, Helical M8	-
20	18-11010	1	Hose, 3/4" I.D. x 4-1/4"	-
21	19-01012	2	Hose Clamp #12	-
22	27-31402	1	Pipe, Turbo Oil Return (Lower)	-
23	R41285	1	Adapter	-
24	16-01000	1	O-ring	-
25	R43928	1	Adapter	-
26	11-31012	1	Gasket	-
27	12-00714	2	Cap Screw, Hex Head, M8 x 1.25 x 40 mm, all thread	-
28	21-52800	1	Male Connector, Steel, 3/8 NPT x 3/8-37T	-
29	27-09601	1	Tube Assembly, Turbocharger oil supply	-
30	21-09502	1	Male Connector, Steel, 3/8-37T x M16 x 1.5	-
31	21-52213	1	Elbow, 90°, Swivel, Steel, 3/8-37T	-
32	19-72252	1	Adelle Clamp, 3/8" I.D. x 3/8" Stud	-
33	12-00751	1	Cap Screw, Hex Head, M8 x 1.25 x 16 mm	-
34	15-00702	1	Lock Washer, Helical, M8	-
35	15-00701	1	Flat Washer, M8	-
36	18-21004	1	Hump Hose	-
37	19-00036	1	Hose Clamp #36	-
38	19-00072	1	Hose Clamp #72	-
39	24-21000	1	Air Filter	-
40	23-21003	1	Bracket	-
41	12-00814	2	Cap Screw, Hex Head, M10 x 1.5 x 35 mm	-
42	15-00802	2	Lock Washer, Helical M10	-
43	15-00805	2	Flat Washer, M10	-
44	19-00128	1	Hose Clamp #128	-
45	21-00025	1	Male Elbow, 90°, PVC 3/4 HB x 3/4 HB	-
46	41-00004	8.3"	Hose, 3/4" I.D. 1 Ply	-
47	21-00077	1	Female Adapter, Steel, 1/8 NPT x M22 x 1.5	-
48	15-09501	1	Sealing Washer, Copper M22	-
49	21-10001	1	Drain Cock, Brass, 1/8 NPT	-
50	27-21002	1	Intake Tube	-
51	16-21001	2	O-Ring	-
52	27-21001	2	Intake Elbow	-

Air Filter Assembly NL668T2



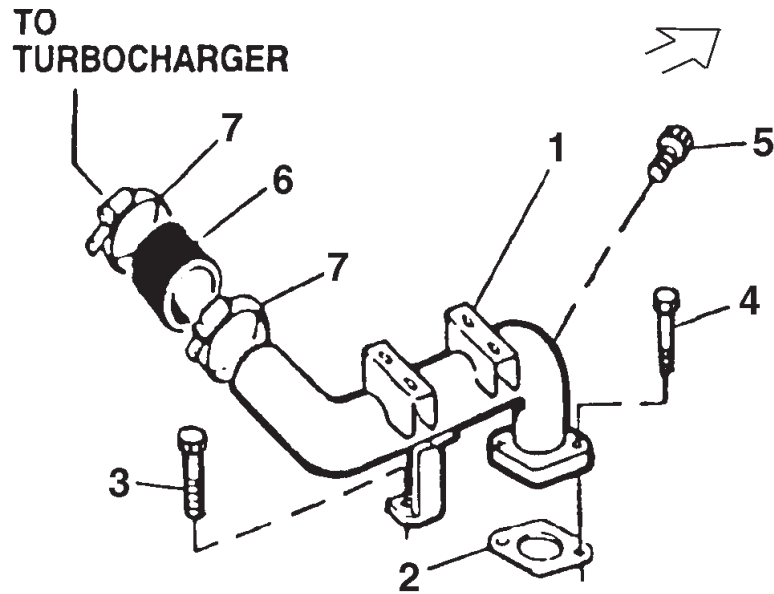
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TP62259

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR84565	1	Cover	-
2	R48723	1	Wing Nut	-
3	AR79680	1	Filter Element	-
4	AR52066	1	Packing	-
5	E17421	1	Lock Nut	-
6	AR79679	1	Air Filter	-
7	AR52065	1	Packing	-
8	AN191169	1	Wing Screw	-
9	AR64937	2	Band	-
10	19M7784	4	Screw	-
11	14M7296	4	Flange Nut, M10	-
12	R128438	1	Hose	-
13	AT56657	1	Clamp	-
14	AT50923	1	Clamp	-
15	AT175358	1	Cap	-

Intake Manifold NL668T2

Early Production



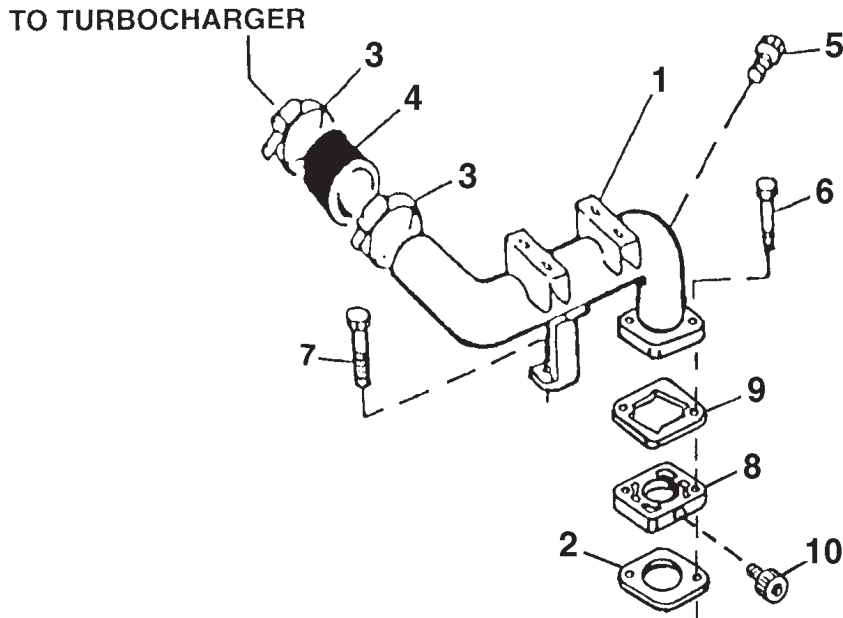
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TP60713

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE64105	1	Intake Manifold	-
2	R81275	1	Gasket	-
3	19M7784	1	Screw, M10 x 20	-
4	19M7785	2	Screw, M10 x 25	-
5	RE502903	1	Plug	-
6	R58551	1	Hose	-
7	R110531	2	Clamp	-

Intake Manifold NL668T2

Late Production

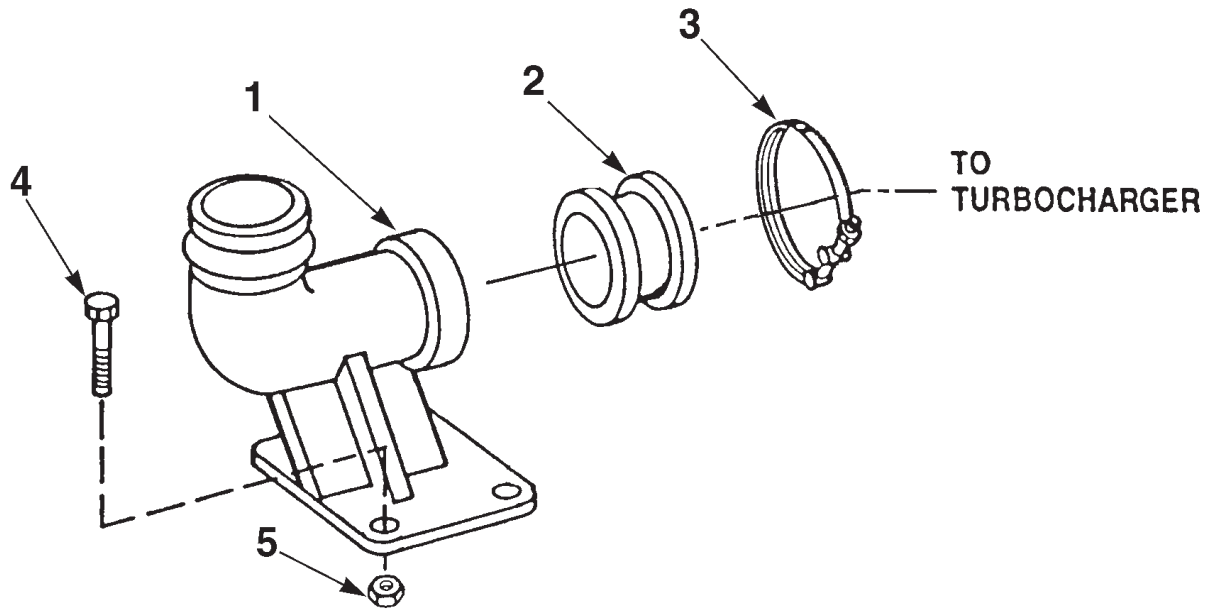


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TP61790

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE501891	1	Intake Manifold	-
2	R81275	1	Gasket	-
3	R110531	2	Clamp	-
4	R56551	1	Hose	-
5	RE502903	1	Plug	-
6	19M8292	2	Screw, M10 x 50 mm	-
7	19M7784	1	Screw, M10 x 20 mm	-
8	R501472	1	Spacer	-
9	R133893	1	Gasket	-
10	RE502903	1	Fitting	-

Exhaust Elbow NL668T2

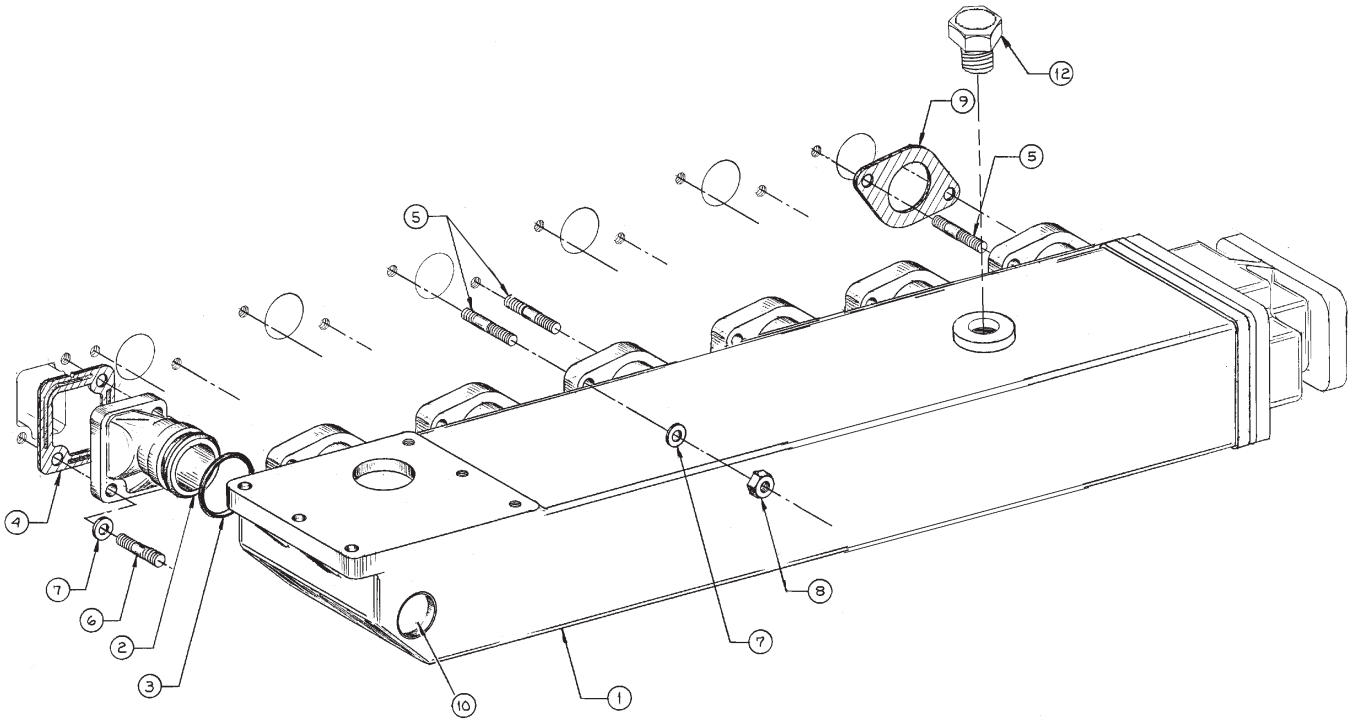


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TP49256

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R123246	1	Pipe Elbow	-
2	R87732	1	Adapter	-
3	RE70212	1	Clamp	-
4	19M8162	4	Cap Screw, M10 x 40	-
5	14M7296	4	Flange Nut, M10	-

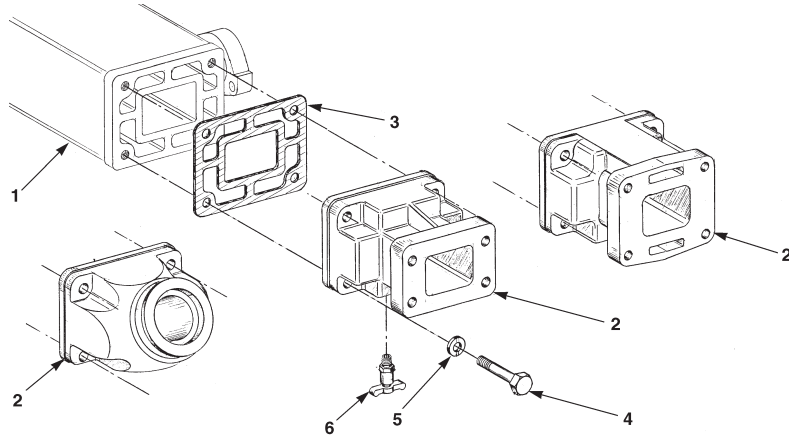
Exhaust Manifold - Marine Application



A-8397/ C-2632

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-39602	1	Exhaust Manifold Assembly w/ Dry Flange*	-
	10-39603	1	Exhaust Manifold Assembly w/ Wet Flange*	-
	10-39604	1	Exhaust Manifold Assembly w/ Wet Elbow Adapter*	-
2	27-11012	1	Coolant Connector	-
3	16-31000	1	O-ring	-
4	11-39501	1	Gasket	-
5	13-34801	12	Stud, M10 x 1.5 x 35 mm	-
6	13-05001	2	Stud, M10 x 1.5 x 25 mm	-
7	15-00300	14	Washer (special)	-
8	14-00810	14	Hex Nut M10 x 1.5	-
9	11-31011	6	Gasket	-
10	17-10005	**	Expansion Plug, 2-1/8"	-
11	17-10001	**	Expansion Plug, 1-5/8"	-
12	21-12502	**	Plug	-
			*See Exhaust Manifold & Adapter Detail for components	
			**As required	

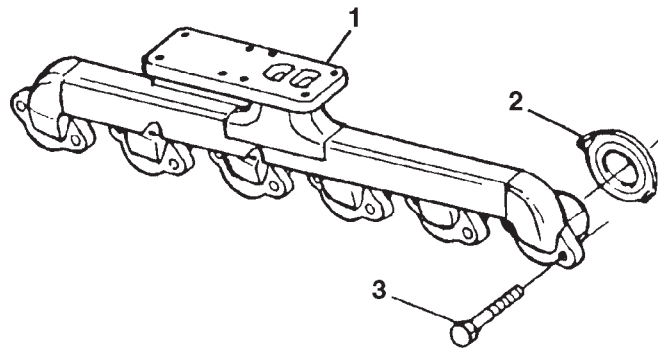
Exhaust Manifold and Adapter - Marine Application



A-4653, A-4654,
A-4655/ C-2648

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-39601	1	Exhaust Manifold	-
2	10-31513	1	Dry Exhaust Flange Adapter	-
	10-31506	1	Wet Exhaust Flange for Turbo Mounting	-
	31-31012	1	Wet Exhaust Elbow Adapter	-
3	11-30013	1	Gasket	-
4	12-00414	4	Capscrew, Hex Head, 7/16-14 x 1-1/2	-
5	15-00402	4	Lock Washer, 7/16	-
6	21-10001	1	Drain Cock, 1/8 NPT	-

Exhaust Manifold NL668T2



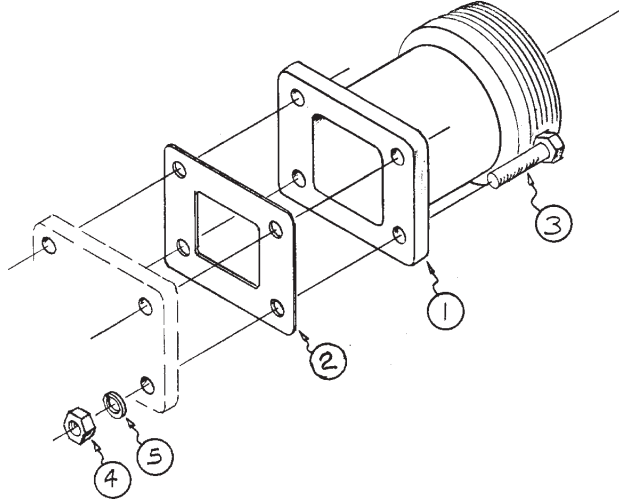
TP48960

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KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R132262	1	Exhaust Manifold	-
2	R90658	6	Gasket	-
3	19M7819	12	Screw, M10 x 90	-

GROUP 2 - INTAKE AND EXHAUST SYSTEMS

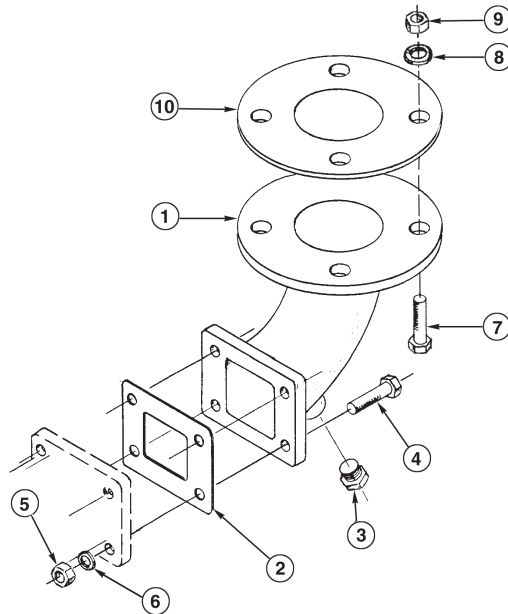
3" NPT Exhaust Adapter LP668D



A-459C/ B-1729B

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	31-31000	1	Exhaust Adapter 3" NPT	-
2	11-31615	1	Gasket	-
3	12-00315	4	Capscrew, Hex Head, 3/8-16 x 1-3/4"	-
4	14-00311	4	Hex Nut 3/8-16	-
5	15-00302	4	Lock Washer, Helical 3/8	-

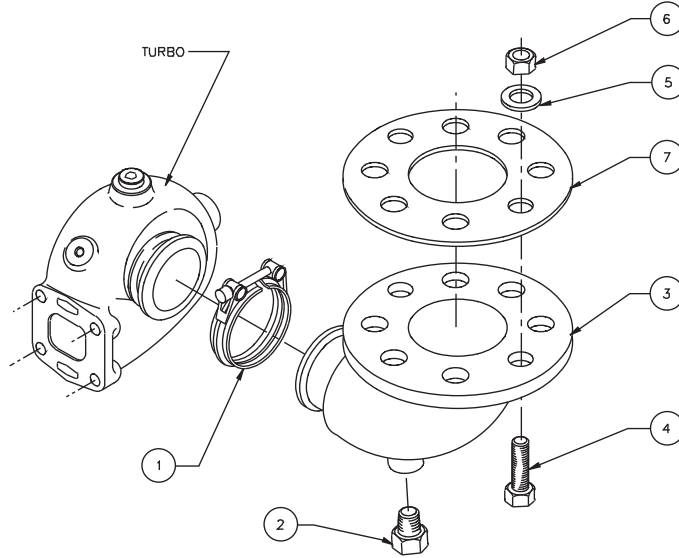
3" Dry Exhaust Elbow LP668D



A-457D/ B-1725

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-31011	1	Dry Exhaust Elbow 3"	-
2	11-31615	1	Gasket	-
3	21-31002	1	Plug, Square Head Brass 3/8 NPT	-
4	12-00315	4	Capscrew, Hex Head 3/8-16 x 1-3/4"	-
5	14-00311	4	Hex Nut 3/8-16	-
6	15-00302	4	Lock Washer, Helical 3/8	-
7	12-00914	4	Capscrew, Hex Head 5/8-11 x 1-3/4"	-
8	15-00902	4	Lock Washer, Helical 5/8	-
9	14-00911	4	Hex Nut 5/8-11	-
10	11-31094	1	Gasket	-

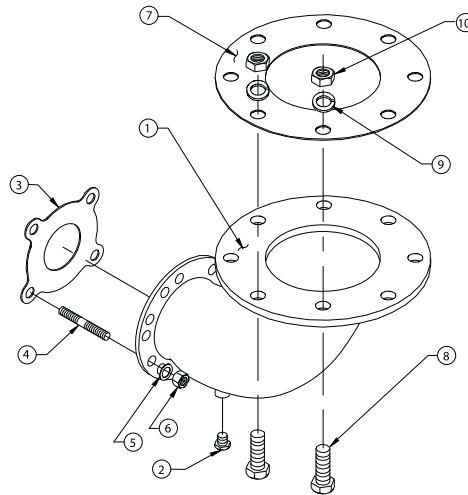
3" Dry Exhaust Elbow MP668T, TQ, & C-Series



A-6337/ B-4638

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19-31401	1	V-Clamp	-
2	21-31002	1	Plug, Square Head Brass 3/8 NPT	-
3	27-31407	1	Dry Exhaust Elbow 3" (with 4" 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	-

4" Dry Exhaust Elbow LP668T

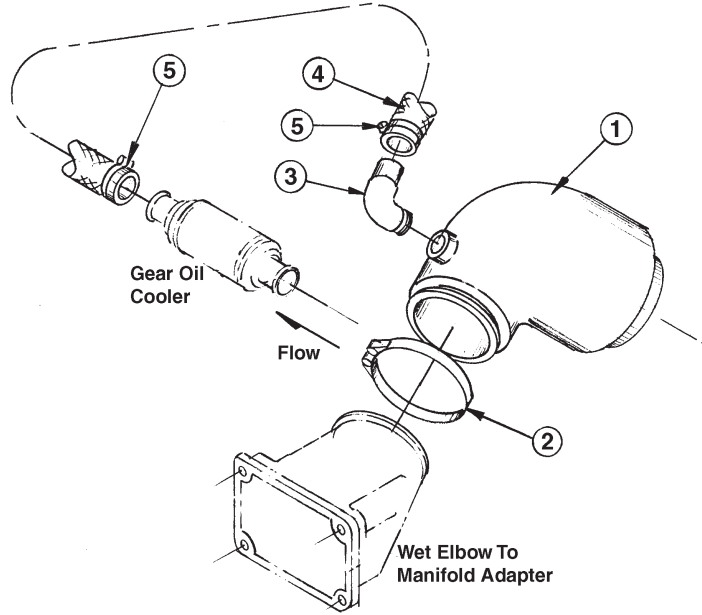


A-1102C/ B-2614B

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-32511	1	Dry Exhaust Elbow 4"	-
2	21-31002	1	Plug, Square Head Brass 3/8 NPT	-
3	11-31635	1	Gasket	-
4	13-00814	4	Stud, M10 x 1.5 x 30 mm	-
5	15-00804	4	Wave Washer, M10	-
6	14-00817	4	Hex Nut, Stainless Steel, M10 x 1.5 mm	-
7	11-31099	1	Gasket	-
8	12-00916	8	Capscrew, Hex Head 5/8-11 x 2.0"	-
9	15-00902	8	Lock Washer, Helical 5/8	-
10	14-00911	8	Hex Nut, 5/8-11	-

GROUP 2 - INTAKE AND EXHAUST SYSTEMS

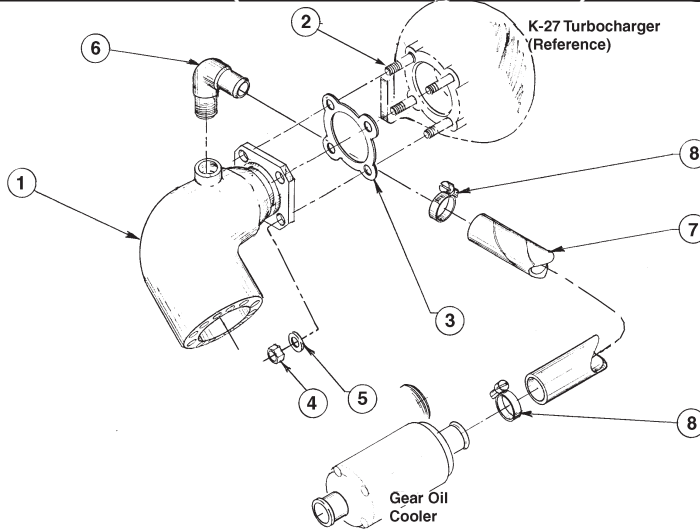
4" Wet Exhaust Elbow LP668D (Heat Exchanged Units)



A-3023/ B-2919

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-31412	1	Wet Exhaust Elbow 4"	-
2	19-31401	1	V-Clamp	-
3	21-31007	1	Male Elbow, Copper 1" NPT x 1-1/4" HB	-
4	18-31605	1	Hose, 1-1/4 x 32" Wire Reinforced	-
5	19-00016	2	Hose Clamp #16	-

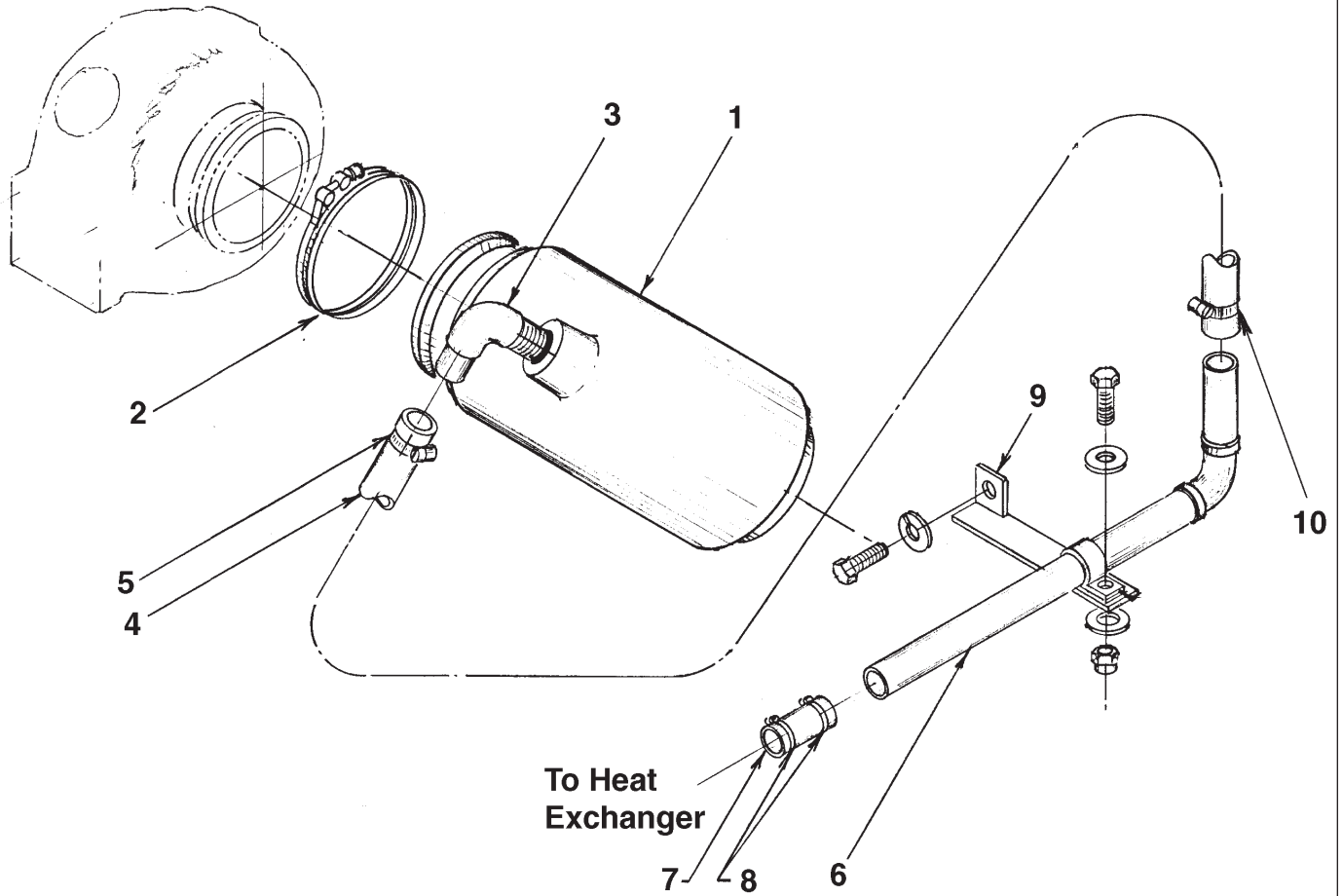
5" Wet Exhaust Elbow LP668T (Heat Exchanged Units)



A-3014/ C-1866

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-31605	1	Wet Exhaust Elbow 5" (0° - 15° Installation angle)	-
	27-30031	1	Wet Exhaust Elbow 5" (15 - 75° Installation angle)	-
2	13-00814	4	Stud, M10 x 1.5 x 30 mm	-
3	11-31635	1	Gasket	-
4	14-00817	4	Hex Nut M10 x 1.5 Stainless Steel	-
5	15-00804	4	Wavewasher M10	-
6	21-31008	1	Male Elbow 90°, Copper 1 -1/4" NPT x 1 -1/4" HB	-
7	18-31605	1	Hose 1 -1/4" I.D. x 32" Wire Reinforced	-
8	19-00016	2	Hose Clamp #16	-

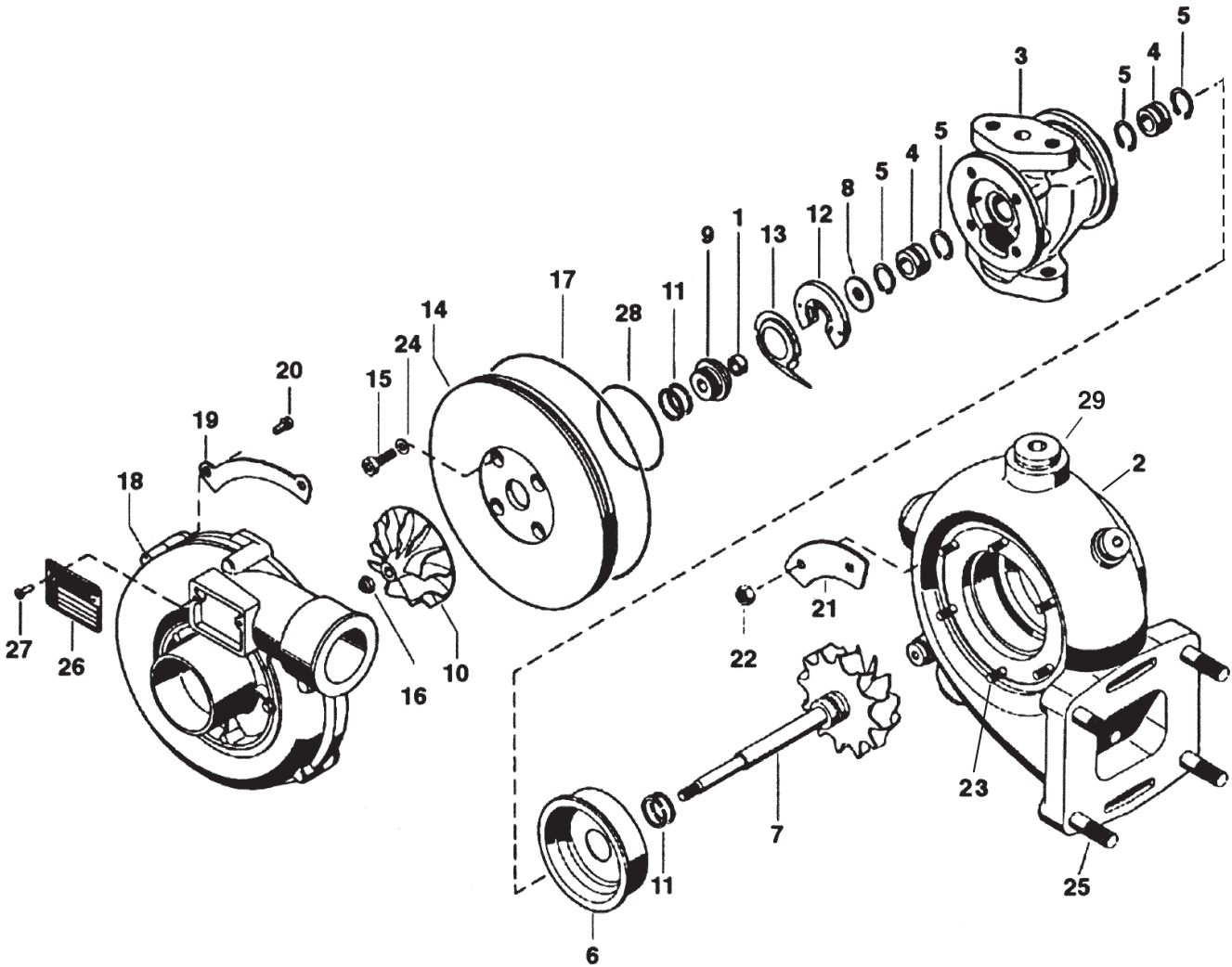
4" Wet Exhaust Elbow MP668T-H-QT (Heat Exchanged Units)



A-8518/ B-2628

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-31412	1	Wet Exhaust Elbow 4"	-
2	19-31401	1	V-Clamp	-
3	21-31007	1	Male Elbow, 90°, Copper, 1" NPT x 1-1/4 " OD	-
4	41-01070	24	Hose, 1-1/4" ID, Wire Reinforced	-
5	19-00020	2	Hose Clamp #20	-
6	27-19601	1	Tube, Raw Water Discharge 1-1/4" OD x 46"	-
7	18-19501	1	Hose, 1-1/4" ID x 2-1/2", 3 Ply Silicone	-
8	19-01020	2	Hose Clamp #20 Extended Band S/S	-
9	23-19503	1	Bracket, Tube Support	-
10	19-00016	1	Hose Clamp #16	-

K26 Turbocharger Assembly MP668T, QT, & C-Series

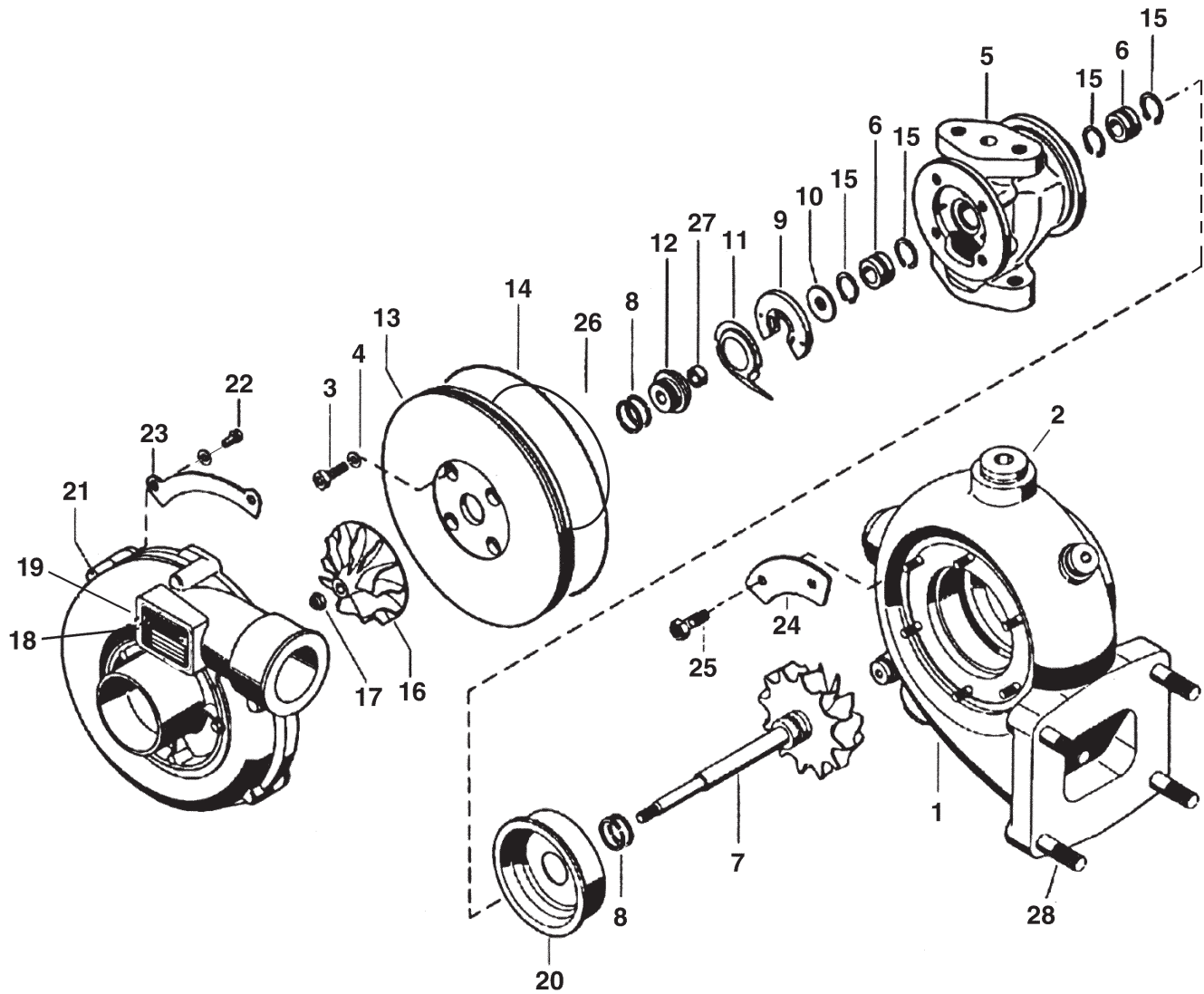


Turbo MP668T

K26 Turbocharger Assembly MP668T, QT, & C-Series

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	30-21400-1	1	Turbocharger Assembly (ID Tag #5326 970 (or 988) 60 90 - includes all keys)	-
••	30-31426-1	1	Turbocharger Assembly (ID Tag #5326 970 (or 988) 64 93 - includes all keys)	-
•	30-31430	1	Repair Kit (includes Keys 4,5, 11-17, 19-22, 24, & 28)	-
1	30-31429	1	Spacer Sleeve	-
2	30-31431	1	Turbine Housing	-
3	30-31433	1	Bearing Housing	-
4	30-31434	2	Bushing	-
5	30-31435	4	Snap Ring	-
6	30-31436	1	Heat Shield	-
7	30-31437	1	Shaft & Turbine Wheel Assembly	-
8	30-31438	1	Thrust Ring	-
9	30-31439	1	Flinger Sleeve	-
10	30-31440	1	Compressor Wheel (for Turbo 30-31426)	-
	30-21401	1	Compressor Wheel (for Turbo 30-21400)	-
11	30-31441	4	Piston Ring	-
12	30-31442	1	Thrust Bearing	-
13	30-31443	1	Oil Deflector	-
14	30-31444	1	Backing Plate	-
15	30-31445	4	Cap screw, Socket Head, M6 x 1.0 x 16 mm Grade 10.9	-
16	30-31446	1	Lock Nut	-
17	30-31447	1	O-ring	-
18	30-31432	1	Compressor Housing (for Turbo 30-31426)	-
	30-21402	1	Compressor Housing (for Turbo 30-21400)	-
19	30-31448	3	Clamp Plate	-
20	12-00030	6	Capscrew, Socket Head M6 x 1.0 x 16 mm	-
21	30-31450	3	Clamp Plate	-
22	14-01131	6	Hex Nut M6 x 1.0	-
23	30-31452	6	Stud, M6 x 1.0	-
24	30-31453	4	Flat Washer, M6	-
25	13-00814	4	Stud, M10 x 1.5 x 30 mm	-
26	30-31454	1	Name Plate	-
27	30-31455	2	Rivet	-
28	30-31428	1	O-ring	-
29	30-31631	2	Plug, Socket Head, Steel M22 x 1.5	-

K27 Turbocharger Assembly LP668T

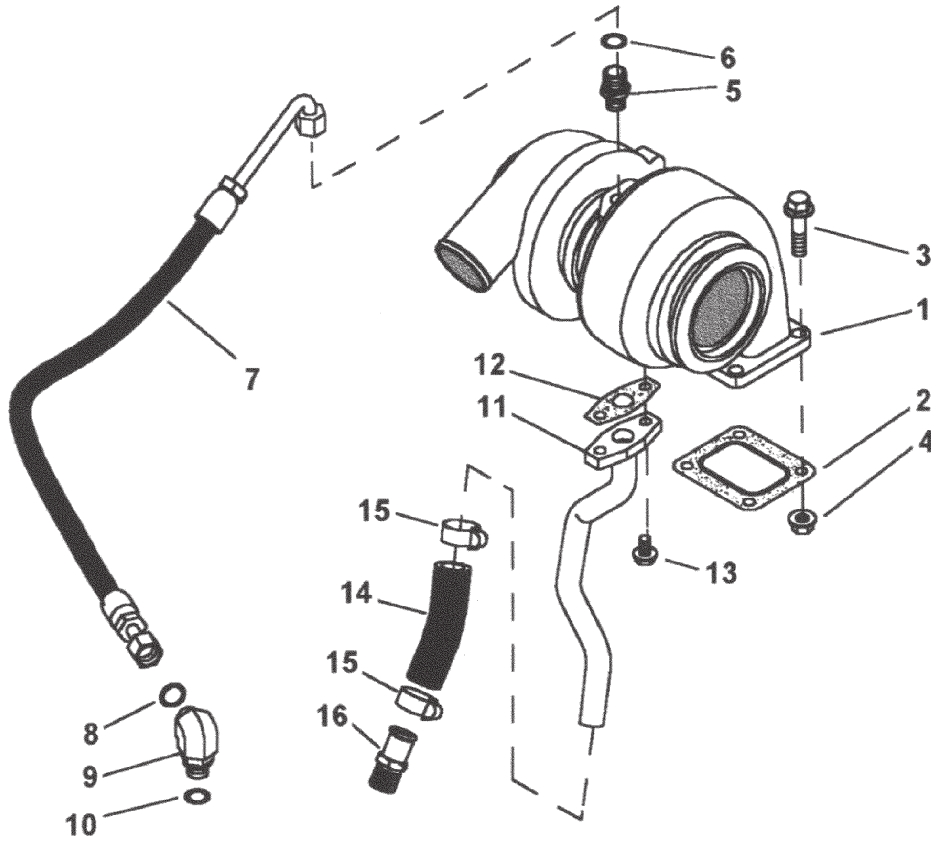


Turbo LP668

K27 Turbocharger Assembly LP668T

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	30-31627	1	Turbocharger Assembly (Includes all Keys 1-27)	-
•	30-31630	1	Repair Kit (Includes Keys 3, 4, 6, 8, 9, 11, 12, 14, 15, 17, 22-27)	-
1	30-31628	1	Turbine Housing	-
2	30-31631	6	Plug, Socket Head, Steel, M22 x 1.5	-
3	30-31445	4	Cap Screw, Socket Head, M6 x 1.0 x 16 mm Grade 10.9	-
4	30-31453	4	Flat Washer, M6	-
5	30-31633	1	Bearing Housing	-
6	30-31434	2	Bushing	-
7	30-31637	1	Shaft & Turbine Wheel Assembly	-
8	30-31441	4	Piston Ring	-
9	30-31442	1	Thrust Bearing	-
10	30-31438	1	Thrust Ring	-
11	30-31443	1	Oil Deflector	-
12	30-31439	1	Flinger Sleeve	-
13	30-31643	1	Backing Plate	-
14	30-31644	1	O-ring	-
15	30-31435	4	Snap Ring	-
16	30-31646	1	Compressor Wheel	-
17	30-31446	1	Lock Nut	-
18	30-31454	1	Name Plate	-
19	30-31649	2	Screw, Self Tapping	-
20	30-31659	1	Heat Shield	-
21	30-31629	1	Compressor Housing	-
22	12-00030	8	Cap Screw, Hex Head, M6 x 1.0 x 16 mm	-
23	30-31657	4	Clamp Plate	-
24	30-31654	3	Clamp Plate	-
25	30-31655	6	Bolt	-
26	30-31428	1	O-ring	-
27	30-31662	1	Spacer Sleeve	-
28	13-00814	4	Stud, M10 x 1.5 x 30 mm	-

Turbocharger NL668T2



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RGP6264

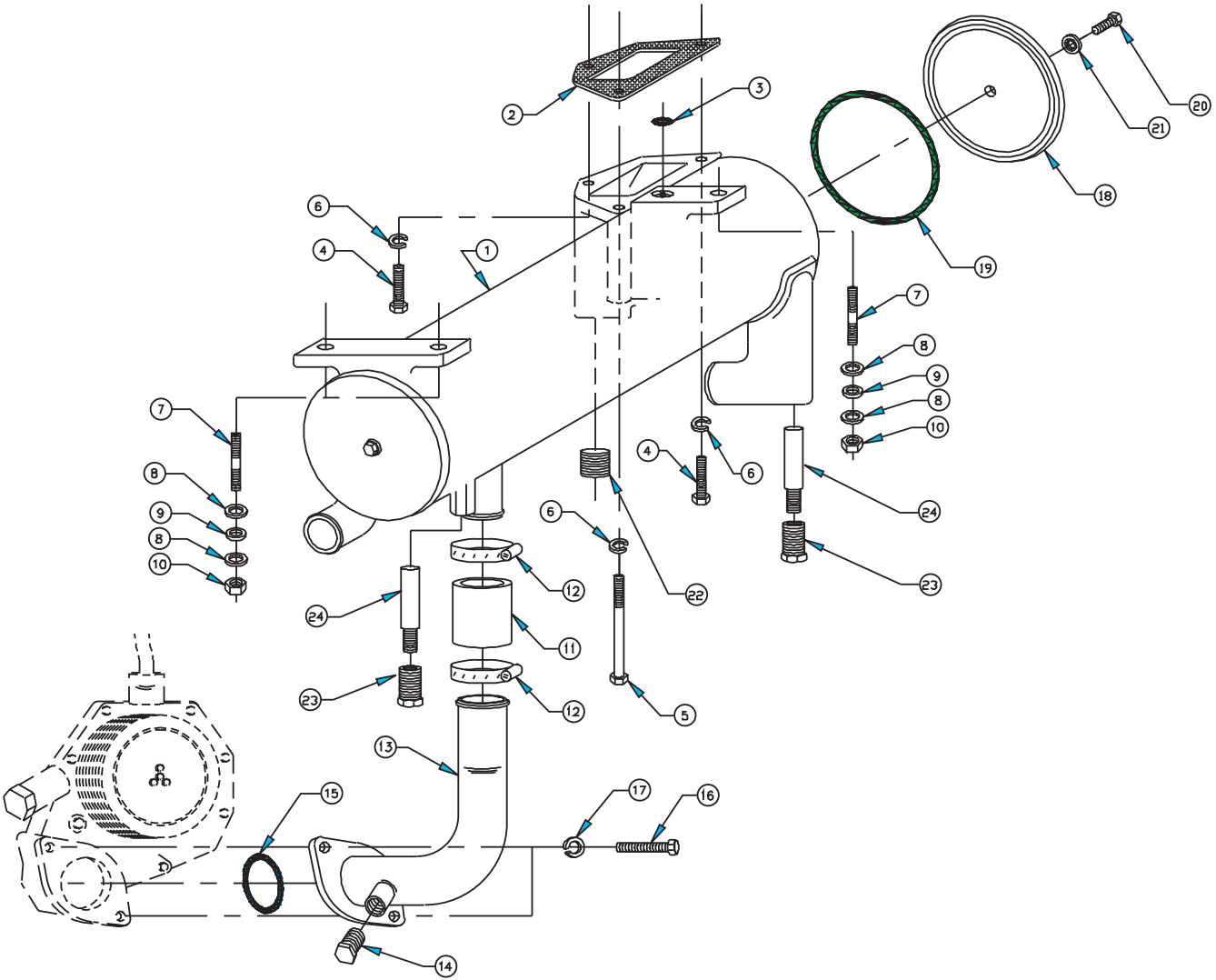
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE60077	1	Turbocharger, (remanufactured)	-
2	R123572	1	Gasket	-
3	19M7785	4	Screw, M10 x 25	-
4	14M7296	4	Flange Nut, M10	-
5	M87733	2	Adapter	-
6	R63548	2	O-ring	-
7	RE501260	1	Hose Assembly, Oil Supply (replaces RE59488)	-
8	R63548	2	O-ring	-
9	38H5154	1	Adapter	-
10	51M7042	2	O-ring	-
11	RE59438	1	Tube, Oil Return	-
12	R123570	1	Gasket	-
13	19M7866	2	Screw	-
14	R76973	1	Hose	-
15	19-01012	2	Clamp	-
16	RE54885	1	Hose Fitting (replaces R120757)	-

Notes

Expansion Tank Assembly

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-19501	1	Expansion Tank Assembly (includes keys 7-17 & 44)	-
2	10-11023	1	Filler Neck Assembly	-
3	11-11022	1	Gasket	-
4	12-20111	6	Capscrew, Socket Head, 1/4-20 x 3/4	-
5	15-00018	6	Lock Washer, High Collar, 1/4	-
6	21-10007	1	Filler Cap	-
7	17-10001	4	Expansion Plug	-
8	21-74801	1	Male Connector, Steel, 3/4 NPT x 5/8-37T	-
9	12-00098	1	Capscrew, Hex Head 1/4-20 x 1/2" S/S	-
10	15-19502	1	Sealing Washer	-
11	21-00530	**	Plug, Hex Head, Brass, 1/2 NPT	-
12	21-11003	**	Plug, Socket Head, Steel, 1/2 NPT	-
13	21-11004	1	Plug, Socket Head, Steel, 3/4 NPT	-
14	21-31003	**	Plug, Hex Head, Brass, 3/8 NPT	-
15	21-00136	1	Bushing, Brass, 1/2 NPT x 1/8 NPT	-
16	21-72044	1	Street Elbow 90 Degrees, Brass, 1/8 NPT	-
17	21-10001	1	Drain Cock, Brass, 1/8 NPT	-
18	12-00313	6	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
19	15-00302	9	Lock Washer, Helical 3/8	-
20	11-11023	1	Gasket	-
21	23-19502	1	Bracket	-
22	12-00831	2	Capscrew, Hex Head, M10 x 1.5 x 25 mm	-
23	15-00802	2	Lock Washer, Helical M10	-
24	12-00311	3	Capscrew, Hex Head, 3/8-16 x 3/4"	-
25	15-00301	3	Flat Washer, 3/8"	-
26	27-19501	1	Tube Assembly	-
27	35-11000	1	Thermostat, 180°F/ 82°C (formerly #35-10002)	-
	35-10004	1	Thermostat, 169°F/ 76°C (replaces 35-10003)	-
28	11-10015	2	Seal Ring	-
29	35-11004	1	Clamp	-
30	12-00223	2	Capscrew, Hex Head, 5/16-18 x 3/4" S/S	-
31	15-00222	2	Lock Washer, Helical 5/16" S/S	-
32	15-11000	2	Flat Washer, 5/16 USS S/S	-
33	10-11024	1	Cover	-
34	11-11013	1	Gasket	-
35	12-00212	4	Capscrew, Hex Head 5/16-18 x 1"	-
36	15-00202	4	Lock Washer, Helical 5/16	-
37	41-01013	30"	Hose, 5/16" I.D., Polyvinyl	-
38	00-71000	1	Nameplate "Lugger"	-
	00-00006	1	Nameplate "Northern Lights"	-
39	10-11006	1	Keel Cooling Outlet (Generator Units)	-
40	11-11043	1	Gasket	-
41	15-00302	3	Lock Washer, 3/8	-
42	12-00313	3	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
43	21-00027	**	Plug, Socket Head, Brass 1/8 NPT	-
44	21-51901	**	Plug, Socket Head, Brass 1/4 NPT	-
			**As required	

Heat Exchanger



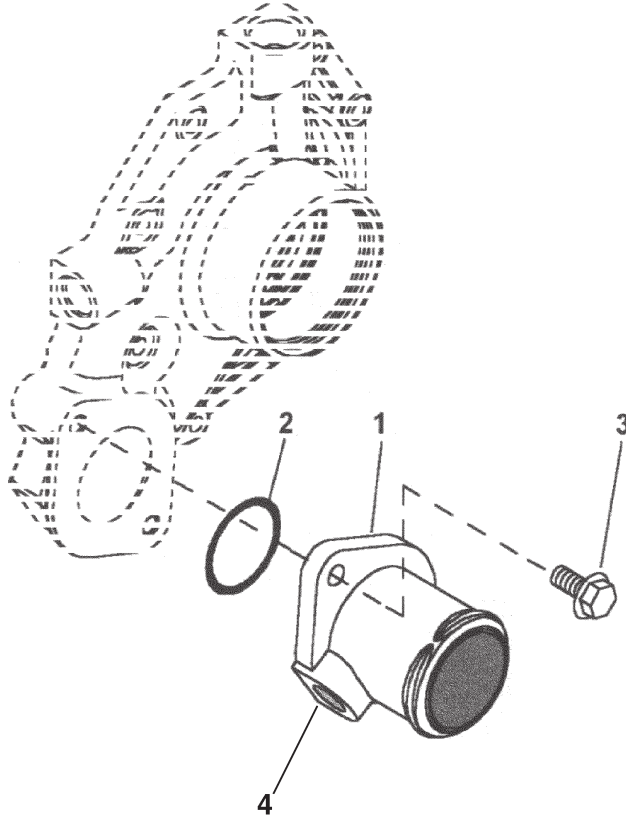
A-8348/ C-4143

Heat Exchanger

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	20-19501	1	Heat Exchanger Assembly (Includes Keys #18-24)	-
2	11-11043	1	Gasket	-
3	16-19502	1	O-Ring	-
4	12-00313	2	Cap Screw, Hex Head, 3/8-16 x 1-1/4"	-
5	12-00340	1	Cap Screw, Hex Head, 3/8-16 x 4"	-
6	15-00302	3	Lock Washer, Helical 3/8	-
7	13-00335	3	Stud, 3/8-16 x 3/8-24 x 1-1/4"	-
8	15-70007	6	Snubbing Washer	-
9	15-19504	3	Neoprene Washer	-
10	14-00322	3	Hex Nut, Nylock 3/8-24	-
11	18-62520	1	Hose, 1-3/4" I.D. x 2-1/4"	-
12	19-01028	2	Hose Clamp #28	-
13	27-11035	1	Tube, Coolant Pump Inlet	-
14	21-00530	1	Plug, Hex Head, Brass, 1/2 NPT	-
15	16-14804	1	O-Ring	-
16	12-00753	2	Cap Screw, Hex Head, M8 x 1.25 x 30 mm	-
17	15-00702	2	Lock Washer, Helical M8	-
18	20-19502	2	End Cover	-
19	16-19501	2	O-Ring	-
20	12-09312	2	Cap Screw, Hex Head, 3/8-16 x 1" S.S.	-
21	15-19501	2	Sealing Washer	-
22	21-51905	**	Plug, Socket Head, 1" NPT	-
23	21-10000	2	Zinc Plug	-
24	21-10010	2	Zinc Electrode	-

**As required

Coolant Pump Inlet

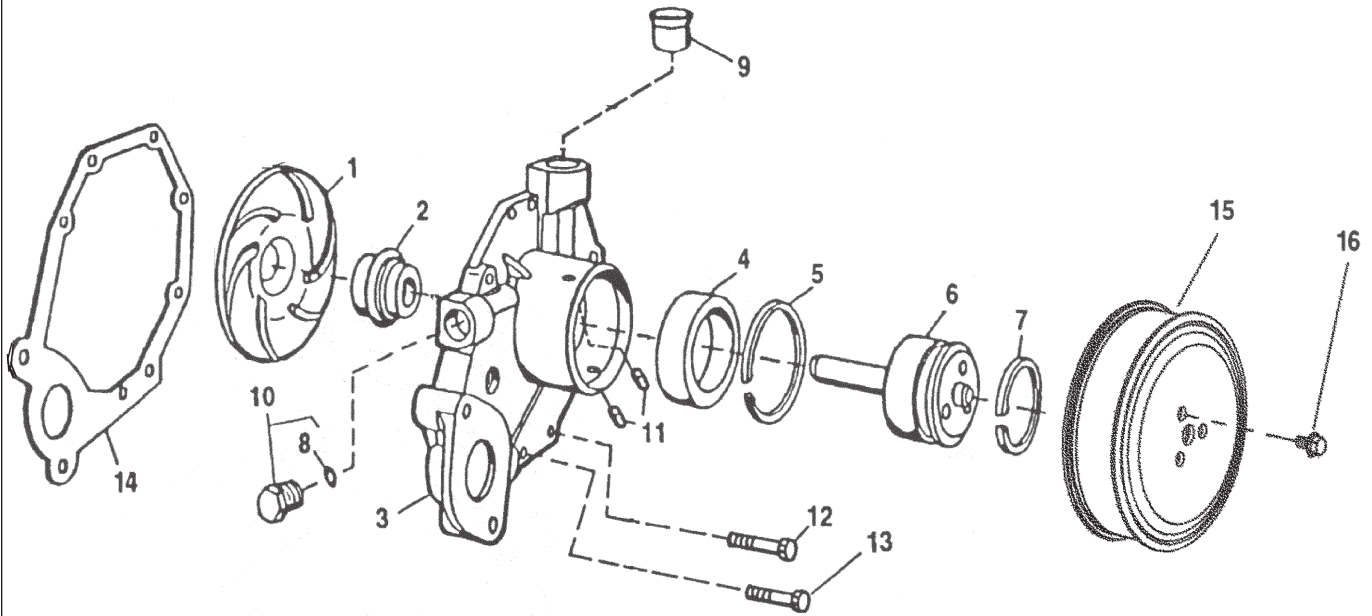


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RGP6248

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-19506	1	Inlet Adapter, 2-1/4" Hose Barb (Generator units)	-
	27-19507	1	Inlet Adapter, 2-3/8" Hose Barb (Propulsion units)	-
	R121634	1	Inlet Adapter, 2" Hose Barb (Industrial units)	-
2	16-14804	1	O-ring	-
3	19M7867	2	Screw, M8 x 25	-
4	21-13101	**	Plug, 1/2" NPT	-
			**As required	

Coolant Pump

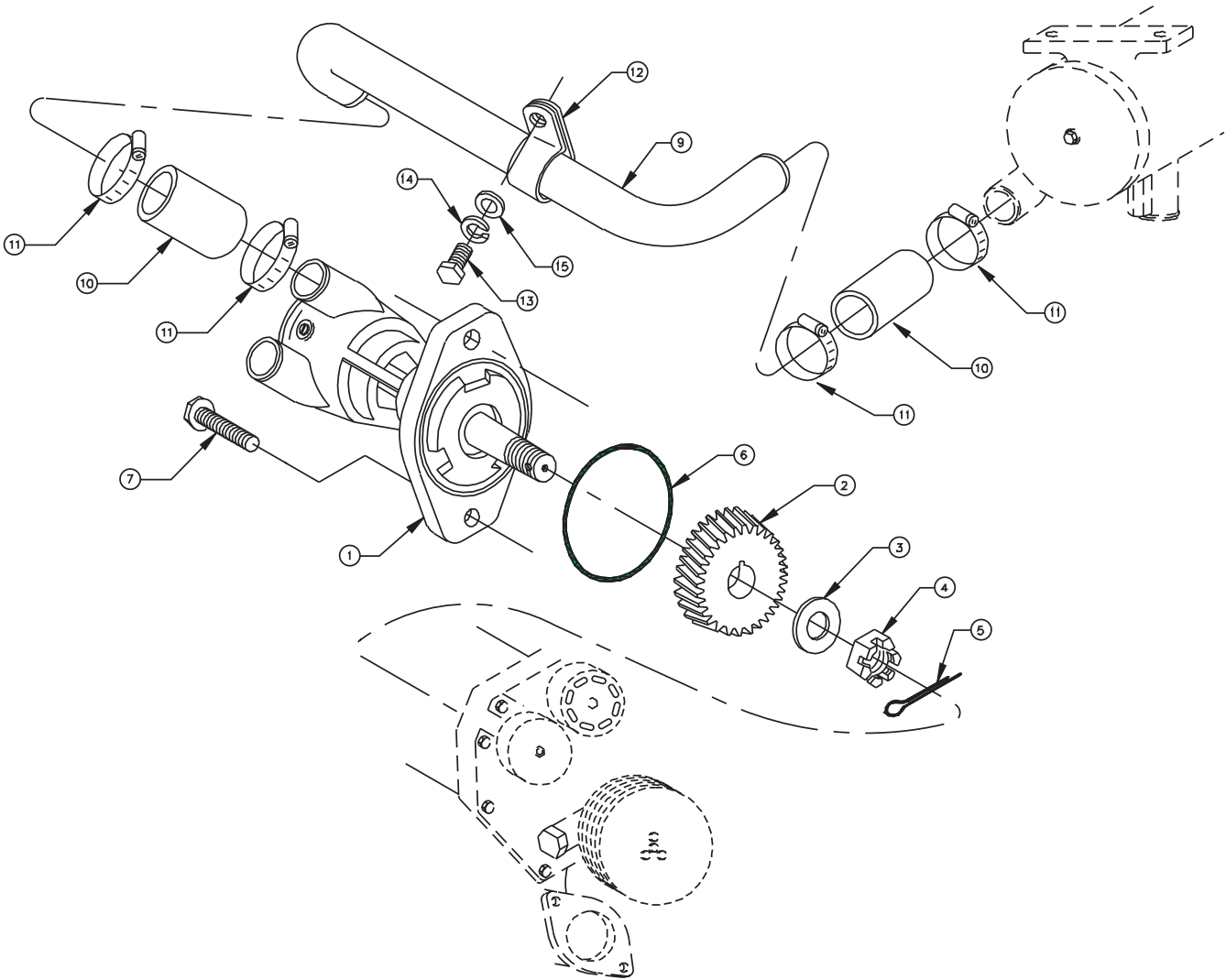


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TP50847 &RGP6114

KEY	PART NUMBER	QTY	DESCRIPTION	ENGINE BLOCK S/N
••	RE500734	1	Coolant Pump, Aluminum (marked RE500734, RE59646, or RE70985, replaced by Retrofit Kit #25-19600) **	up to S/N 162101 -
••	RE505980	1	Coolant Pump, Cast Iron (marked R503509)	from S/N 162102
•	RE509813	1	Repair Kit (formerly #RE70962)	-
1			Impeller (marked R123395) *	-
2			Seal *	-
3			Housing *	-
4			Ball Bearing *	-
5			Ring *	-
6			Shaft *	-
7	A364R	1	Snap Ring	-
8	51M7043	1	O-ring	-
9	R123226	1	Gasket	-
10	RE46685	1	Plug	-
11	R98527	2	Filter (use with RE70985)	-
	R100369	2	Filter (use with RE500734)	-
12	19M7863	5	Screw, M6 x 25	-
13	19M7796	3	Screw, M6 x 30	-
14	R123417	1	Gasket	-
15	R115250	1	Pulley, 93 mm OD	-
16	19M7784	3	Capscrew, Flanged Head M6 x 1.0 x 12 mm	-
			* Not available separately - order Pump Repair Kit or Coolant Pump Assembly	
			**Retrofit Kit includes Pump RE505980, Timing Cover Insert, Gaskets, and instructions.	

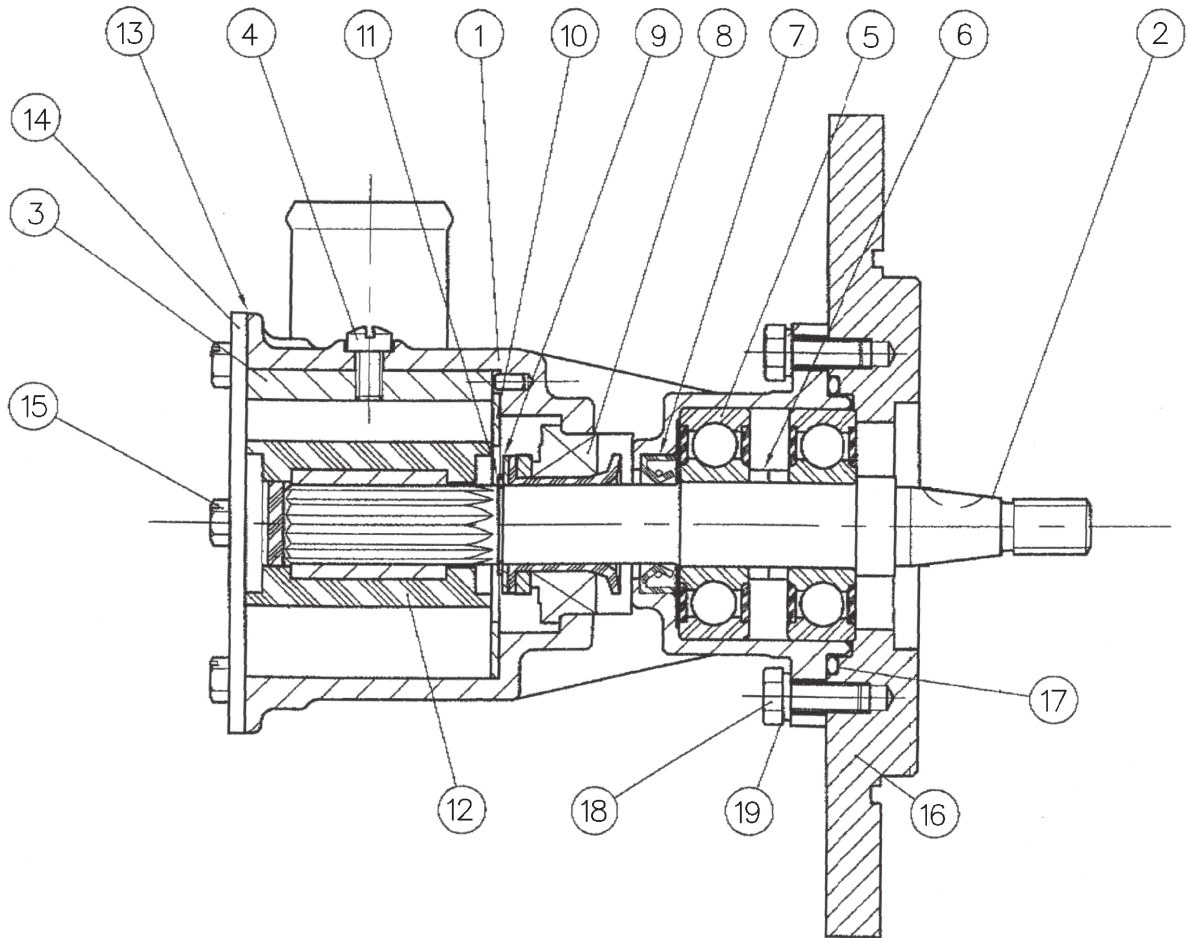
Raw Water Pump and Mounting



A-8362/ C-4177

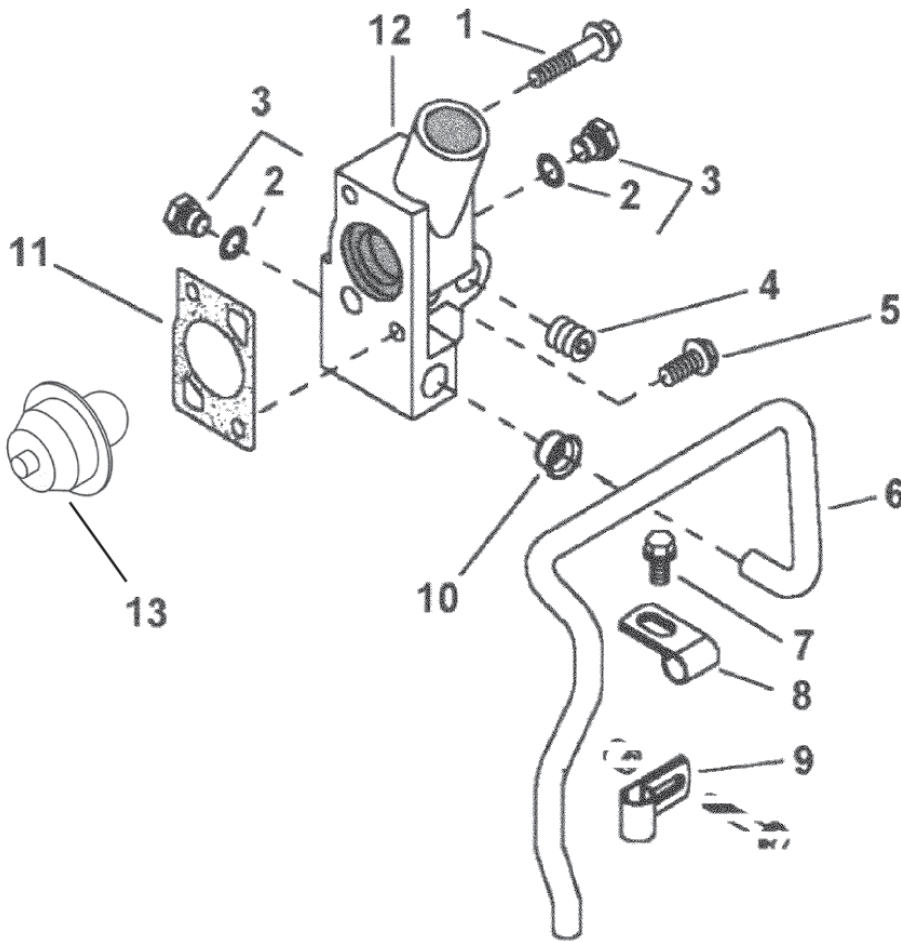
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	25-19501	1	Raw Water Pump (See Parts Detail)	-
2	R135101	1	Gear	-
3	15-19503	1	Shaft Flat Washer	-
4	14-19501	1	Hex Nut, Slotted	-
5	32-00005	1	Cotter Pin	-
6	16-19503	1	O-ring	-
7	19M8306	2	Capscrew, Hex Head Flanged, M12 x 1.75 x 50 mm	-
9	27-19502	1	Tube	-
10	18-19501	2	Hose, 1-1/4" I.D. x 2-1/2"	-
11	19-01020	4	Hose Clamp #20	-
12	19-71031	1	Adelle Clamp	-
13	12-00805	1	Capscrew, Hex Head, M10 x 1.5 x 20 mm	-
14	15-00802	1	Lock Washer, Helical M10	-
15	15-00805	1	Flat Washer, M10	-

Raw Water Pump Assembly



KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	25-19501	1	Raw Water Pump Assembly (Includes all keys)	
1	25-19502	1	Housing	-
2	25-19503	1	Shaft	-
3	25-11621	1	Cam	-
4	25-11619	1	Screw	-
5	25-19504	2	Bearing	-
6	25-19506	2	Spacer	-
7	25-19507	1	Seal, Lip Type	-
8	25-19508	1	Seal, Mechanical/Carbon	-
9	25-19509	1	Support Washer	-
10	25-19511	1	Wear Plate	-
11	25-19512	1	Snap Ring	-
12	25-11011	1	Impeller with Gasket	-
13	25-11017	1	Gasket	-
14	25-19513	1	Cover	-
15	25-19514	6	Screw	-
16	25-19516	1	Flange	-
17	25-19517	1	O-ring	-
18	12-00776	3	Capscrew, Hex Head, M8 x 1.25 x 20 mm S/S	-
19	15-00705	3	Lock Washer, Helical M8 S/S	-

Thermostat & Housing Assembly NL668T2

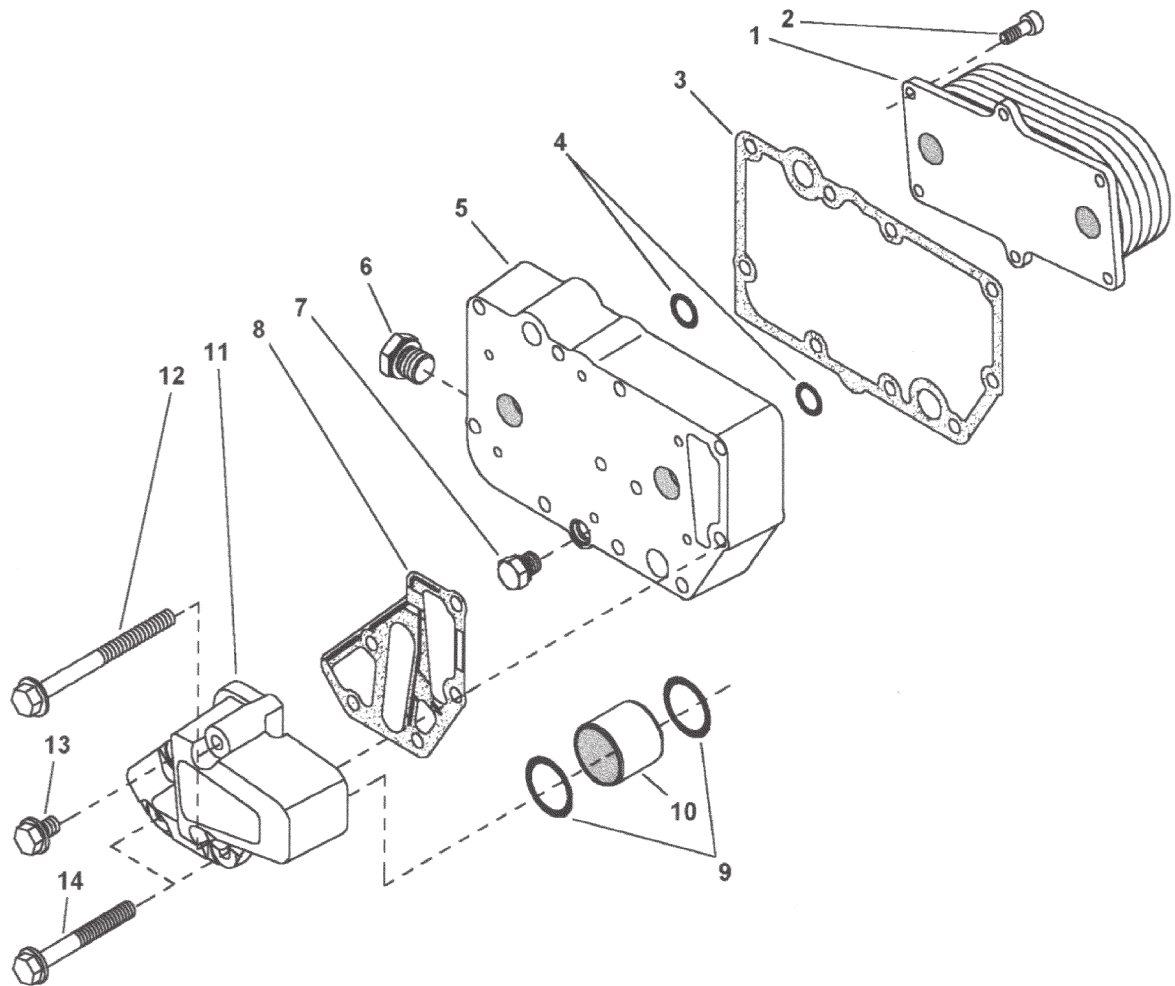


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RGP6117 &6121

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19M7809	1	Screw, M10 x 70	-
2	51M7041	**	O-ring	-
3	RE46684	**	Plug	-
4	15H624	3	Pipe Plug	-
5	19M7786	2	Screw, M10 x 30	-
6	R123629	1	Tube	-
7	19M7788	1	Screw, M12 x 25	-
8	R123323	1	Clamp	-
9	R123324	1	Clamp	-
10	R123226	1	Gasket	-
11	R135896	1	Gasket	-
12	R501556	1	Cover	-
13	RE64354	1	Thermostat, 180°F/ 82°C	-
			**As required	

Engine Oil Cooler

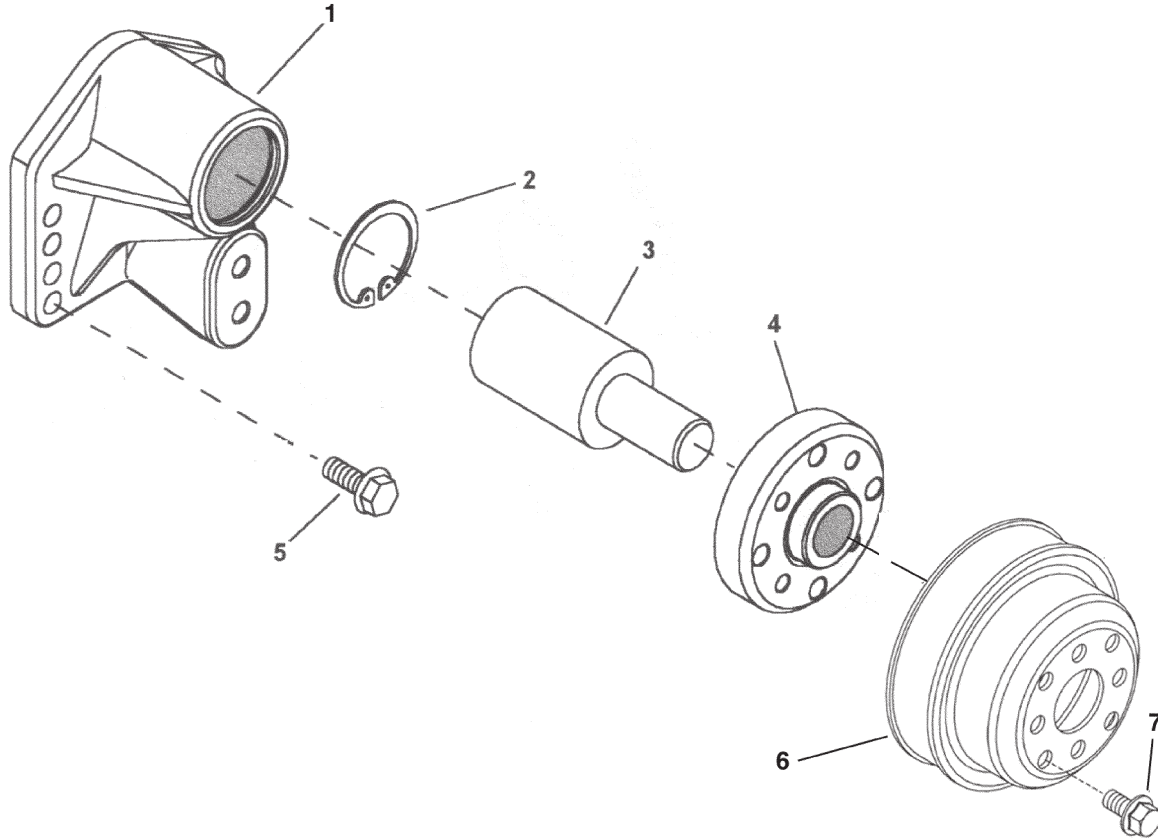


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RGP6253

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE59296	1	Oil Cooler Element (without turbocharger)	-
	RE56690	1	Oil Cooler Element (with turbocharger)	-
2	RE67231	1	Screw, M6 x 16	-
3	R123501	1	Gasket	-
4	T122075	2	O-ring	-
5	R123471	1	Housing	-
6	RE46685	1	Plug, M18 x 1.5	-
7	RE46686	1	Plug	-
8	R501428	1	Gasket	-
9	R61105	2	O-ring	-
10	R115252	1	Tube	-
11	R135177	1	Adapter	-
12	19M7970	2	Screw, M8 x 100	-
13	RE67238	1	Screw, M8 x 20	-
14	19M7802	2	Screw, M8 x 65	-

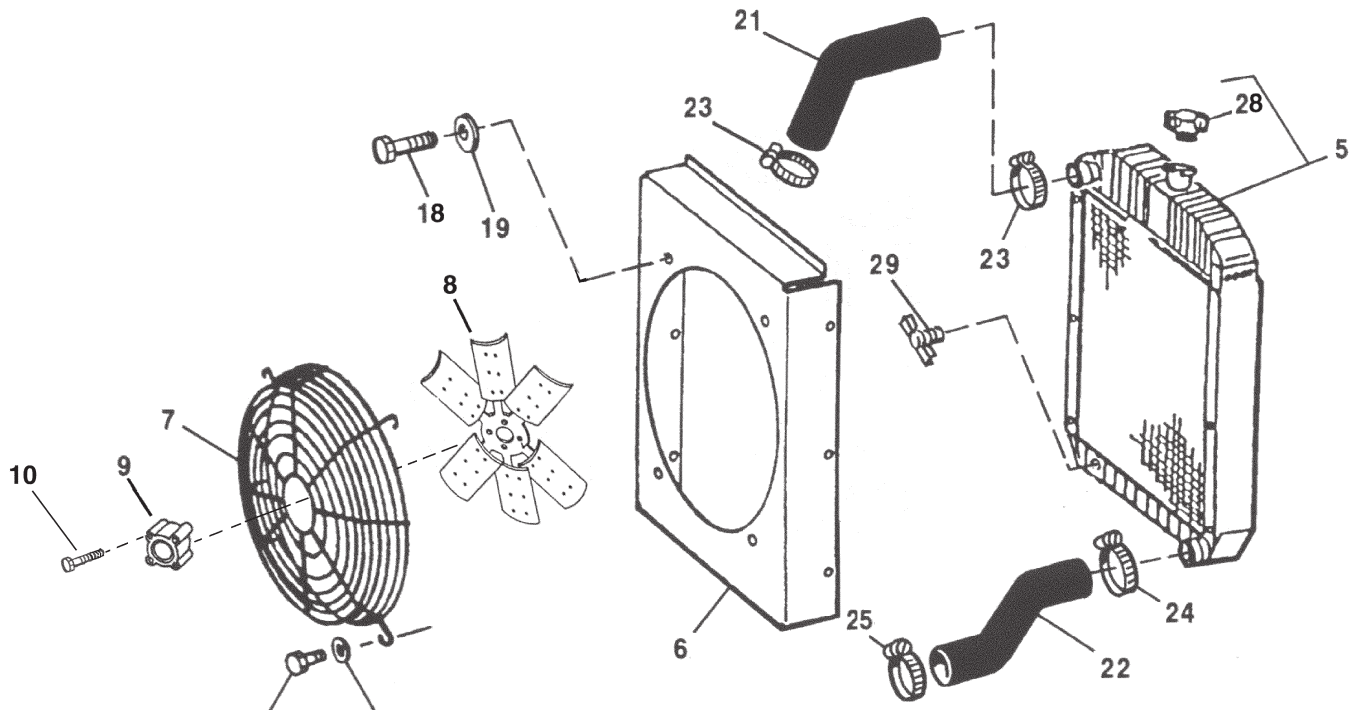
Idler Shaft Assembly



RGP6123 & RGP6278

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500539	1	Idler Shaft (includes keys 2-4)	-
2	H80753	1	Snap Ring	-
3		1	Bearing*	-
4	R500598	1	Hub	-
5	19M7835	4	Screw	-
6	R128660	1	Pulley, 168 mm O.D.	-
	R128658	1	Pulley, 140 mm O.D. (NL668T2 only)	-
7	19M7784	4	Screw	-
			*No longer available separately - use RE500539	

Radiator & Mounting



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TP49658 & TP55258

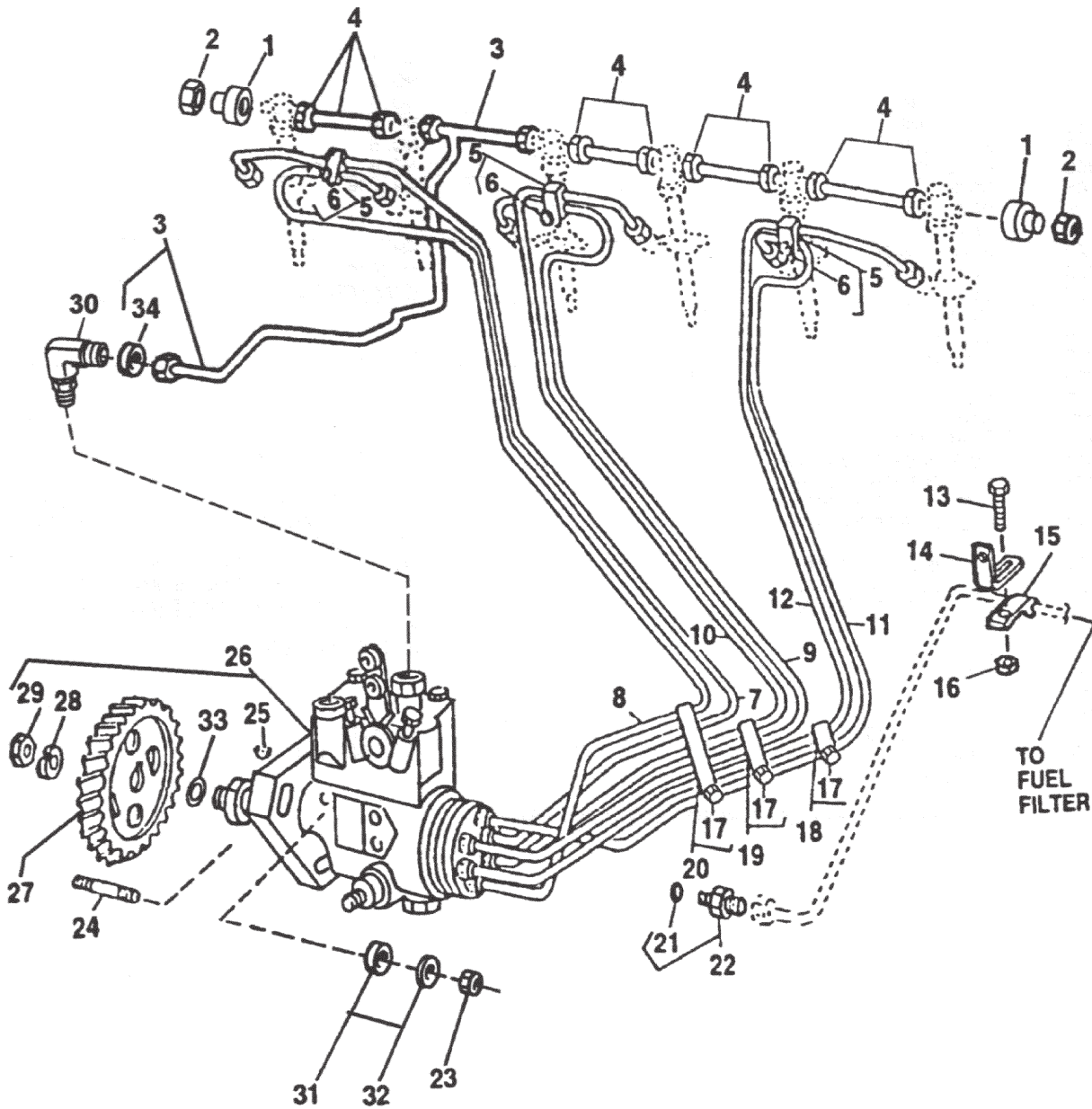
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-11015	2	Side Panel, Modular Radiator Guard**	-
2	39-11016	1	Top Panel, Modular Radiator Guard**	-
3	23-11010	2	Radiator Mounting Bracket**	-
4	39-11017	1	Grille**	-
5	RE64110	1	Radiator (includes key #28)	-
6	RE64109	1	Fan Shroud	-
7	RE64108	1	Fan Guard	-
8	RE47518	1	Fan 18" (Blower)	-
9	R128442	1	Spacer, Fan Mounting	-
10	12-80049	4	Capscrew, Hex Head Flanged, M10 x 1.5 x 80 mm	-
11	12-00312	4	Capscrew, Hex Head, 3/8-16 x 1" **	-
12	12-00311	12	Capscrew, Hex Head, 3/8-16 x 3/4" **	-
13	12-00362	6	Capscrew, Hex Head, 3/8-16 x 1/2" **	-
14	15-00321	18	Flat Washer, 3/8" **	-
15	15-00302	8	Lock Washer, Helical 3/8" **	-
16	14-00312	12	Hex Nut, Nylock 3/8-16 **	-
17	14-00301	6	U-Nut 3/8-16 **	-
18	12-00209	16	Capscrew, Hex Head, 5/16-18 x 3/4"	-
19	15-00202	20	Lock Washer, Helical 5/16	-
20	15-00221	8	Flat Washer 5/16" SAE	-
21	R128455	1	Hose, Radiator Inlet	-
22	R128456	1	Hose, Radiator Outlet	-
23	19-00028	2	Hose Clamp, #28	-
24	19-00036	1	Hose Clamp, #36	-
25	19-00032	1	Hose Clamp, #32	-
26	00-70074	1	Label, "Northern Lights Generators" **	-
27	41-01013	36	Hose, 5/16" I.D. Polyvinyl **	-
28	RE64092	1	Cap, 10 PSI	-
29	AT13740	1	Drain Cock	-

**Not shown

Fuel Injection System LP668D

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR85519	2	Plug	-
2	R123593	2	Nut	-
	R51936	10	Packing (use with R123593 nut)	-
3	RE68899	1	Tube Assembly (includes key #34)	-
4	RE68748	4	Tube	-
5	RE19797	4	Clamp	-
6	19M7300	3	Capscrew, M6 x 10	-
7	RE60049	1	Fuel Line, No. 1	-
8	RE60050	1	Fuel Line, No. 2	-
9	RE60051	1	Fuel Line, No. 3	-
10	RE60052	1	Fuel Line, No. 4	-
11	RE60053	1	Fuel Line, No. 5	-
12	RE60054	1	Fuel Line, No. 6	-
13	19M7865	1	Screw, M8 x 16	-
14	R116116	1	Bracket	-
15	T14050	1	Clamp	-
	T74410	**	Clamp	-
16	14M7298	1	Flange Nut	-
17	19M7300	3	Capscrew, M6 x 10	-
18	12M7065	3	Lock Washer	-
19	RE19799	1	Clamp	-
20	RE19800	1	Clamp	-
21	51M7040	1	O-ring	-
22	RE60029	1	Fitting	-
23	14M7273	3	Nut, M8	-
24	R116386	3	Stud	-
25	26H10	1	Shaft Key	-
26		1	Fuel Injection Pump (refer to Injection Pump Applications on page 4-4)	-
27	R132267	1	Gear	-
28	R132874	1	Washer	-
29	R91360	1	Nut	-
30	RE502173	1	Fitting (replaces RE60185)	-
31	T27860	3	Washer	-
32	26-59601	1	Solenoid (12 Volt, Energize-to-stop)*	-
	22-59501	1	Solenoid (12 Volt, Energize-to-stop, Isolated Ground)	-
33	R128799	1	O-ring	-
34	R51936	2	Packing	-
			*Replaced by Solenoid 22-59501 & Harness Assembly 22-59504)	
			**As required	

Fuel Injection System LP668T - MP668T-H & NL668T2

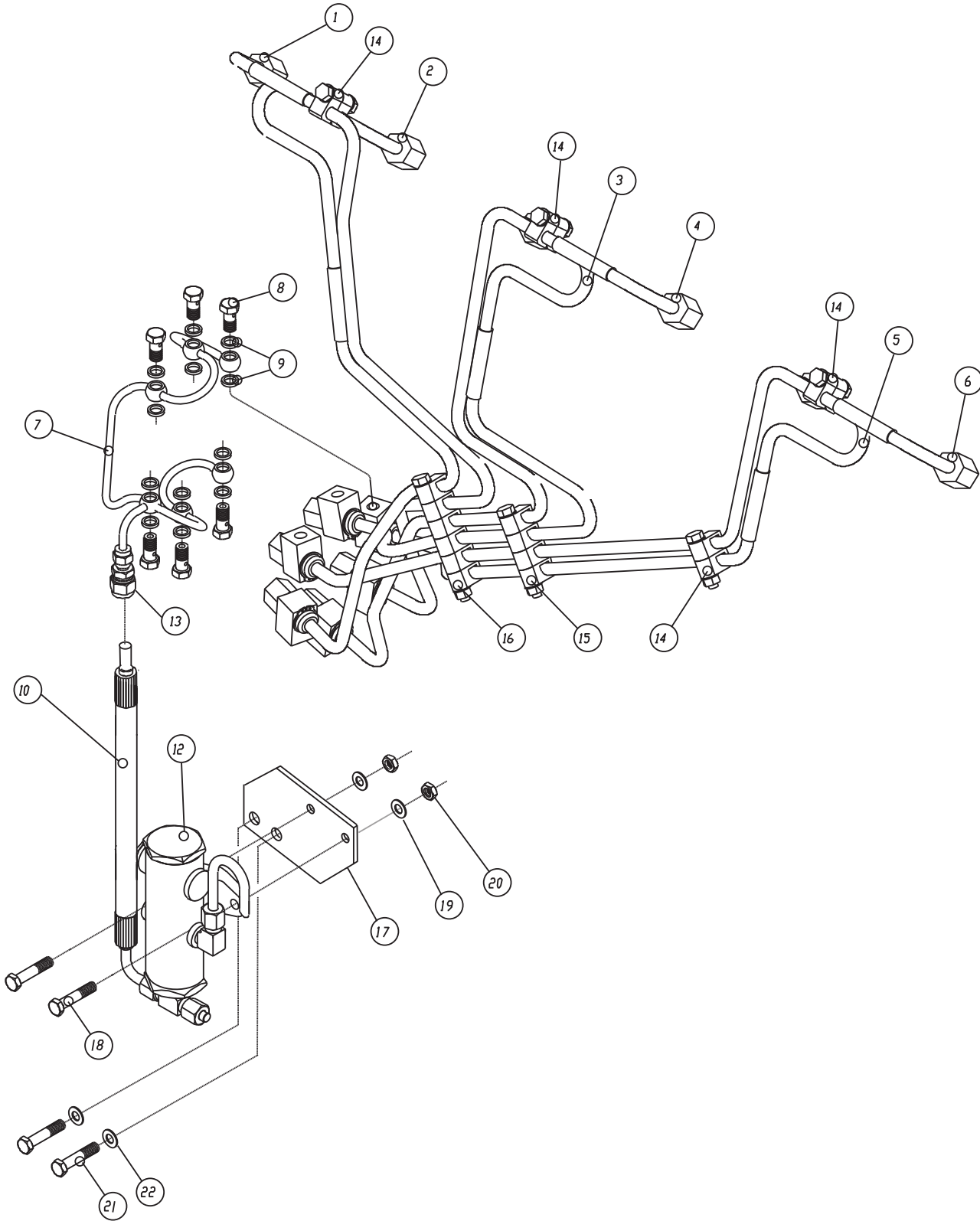


Fuel Injection System LP668T - MP668T-H & NL668T2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR85519	2	Plug	-
2	R123593	2	Nut	-
3	RE70848	1	Line, Leak-off	-
4	RE68748	4	Tube	-
5	RE19797	3	Clamp	-
6	19M7300	3	Capscrew, M6 x 10	-
7	RE60055	1	Fuel Line, No. 1	-
8	RE60056	1	Fuel Line, No. 2	-
9	RE60057	1	Fuel Line, No. 3	-
10	RE60058	1	Fuel Line, No. 4	-
11	RE60059	1	Fuel Line, No. 5	-
12	RE60060	1	Fuel Line, No. 6	-
13	19M7865	1	Screw, M8 x 16	-
14	R116116	1	Bracket	-
15	T14050	1	Clamp	-
16	14M7298	1	Flange Nut, M8	-
17	19M7300	**	Capscrew, M6 x 10	-
18	RE19797	**	Clamp	-
19	RE19799	1	Clamp	-
20	RE19800	1	Clamp	-
21	51M7040	1	O-ring	-
22	RE60029	1	Fitting	-
23	14M7273	3	Nut, M8	-
24	R116386	3	Stud	-
25	26H10	1	Shaft Key	-
26		1	Fuel Injection Pump (refer to Injection Pump Applications on page 4-6)	-
27	R132267	1	Gear, 60 Teeth	-
28	R132874	1	Washer (replaces R48600)	-
29	R91360	1	Nut	-
30	RE67364	1	Elbow Fitting	-
31	T27860	3	Washer	-
32	12M7065	3	Lock Washer	-
33	R502076	1	O-ring (replaces R89944)	-
34	R51936	2	Packing	-

Double Wall Fuel Lines

M668T - H



A-8507/ STI3213-1Giro

Double Wall Fuel Lines

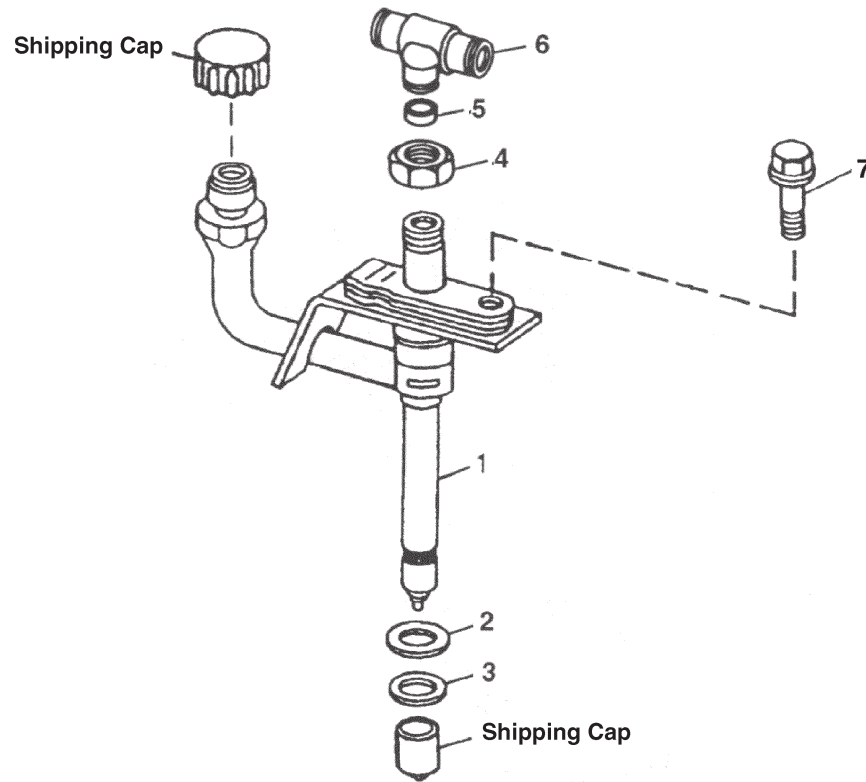
M668T - H

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-59601	1	Injection Line #1 Double Wall	-
2	27-59602	1	Injection Line #2 Double Wall	-
3	27-59603	1	Injection Line #3 Double Wall	-
4	27-59604	1	Injection Line #4 Double Wall	-
5	27-59605	1	Injection Line #5 Double Wall	-
6	27-59606	1	Injection Line #6 Double Wall	-
7	10-51602	1	Drain Manifold	-
8	21-59504	6	Banjo Bolt M8 x 0.75 x 16 mm	-
9	15-59501	12	Sealing Washer, Copper M8	-
10	18-51604	1	Hose Assembly 1/4" ID x 242 mm S/S	-
12	10-50002	1	Alarm Tank Assembly	-
13	21-50041	1	Reducing Union, Brass 3/16 x 5/16	-
14	19-55701	4	Clamp Assembly, 2 Lines	-
15	19-50011	1	Clamp Assembly, 4 Lines	-
16	19-50013	1	Clamp Assembly, 6 Lines	-
17	23-59601	1	Bracket, Alarm Tank Mtg.	-
18	12-00753	2	Capscrew, Hex Head M8 x 1.25 x 30 mm	-
19	15-00701	2	Flat Washer M8	-
20	14-04802	2	Hex Nut, Nylock M8 x 1.25	-
21	12-00911	2	Capscrew, Hex Head M12 x 1.75 x 20 mm	-
22	15-00912	2	Lock Washer, Helical M12	-

Injection Pump Applications

PART NUMBER	DESCRIPTION
	Marine & Industrial Generator Units - Energize-to-run
	MP668T & MP80C
RE67572	1800 RPM 12 Volt
RE67571	1800 RPM 24 Volt
26-59602	1500 RPM 12 Volt
26-59603	1500 RPM 24 Volt
	MP668H - MP99C - NL668T2
RE67573	1800 RPM 12 Volt
RE67574	1800 RPM 24 Volt
26-59604	1500 RPM 12 Volt
26-59606	1500 RPM 24 Volt
	MP668QT
26-59601	1200 RPM 12 Volt
	Propulsion Units - Energize-to-stop
	LP668D
RE59861XD	12 Volt Standard Ground* (Replaced by RE505929)
RE505929	12 Volt Isolated Ground
	LP668T
RE69791XD	12 Volt Standard Ground
RE69792XD	24 Volt Standard Ground
	Note: Basic injection pump part numbers are listed above. Alaska Diesel Electric also provides special accessories. Injection pump part numbers may show suffix letters indicating an optional configuration. Please order replacement pumps using complete part number on data plate. Example: RE67572XB - Pump has been configured to isolated ground Solenoid and includes lever for use with Governor Actuator. *Propulsion Unit LP668D with screw-in Fuel Solenoid may not have suffix letters after basic part number - do not order from John Deere without installing correct Fuel Solenoid (ADE # 22-59601). Standard ground available until stock depleted or #22-59505 isolated ground kit with Adapter Harness. Units with isolated ground (2 pole) Solenoid use #22-59501.

Fuel Injector

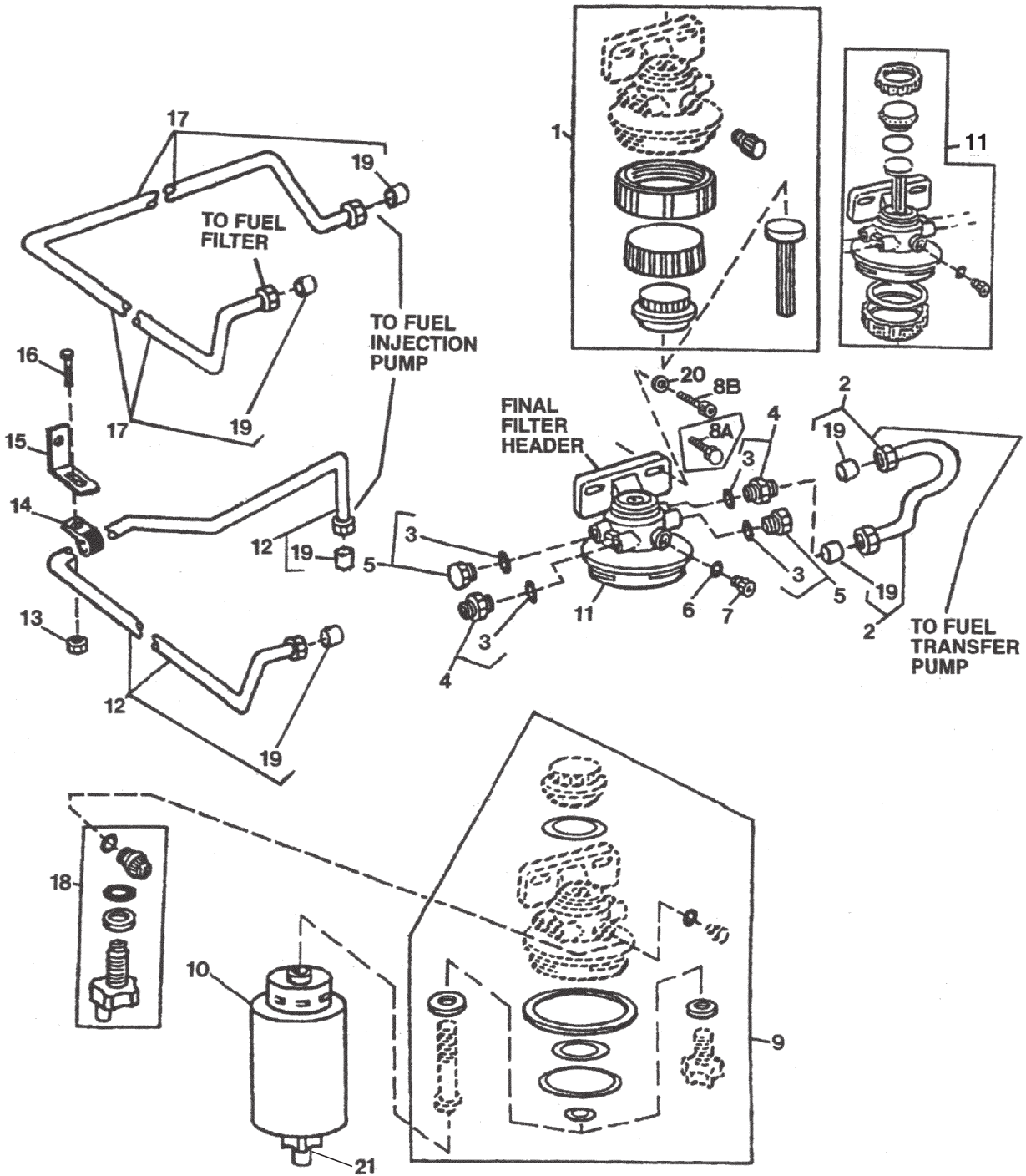


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RGP6035

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE48786	1	Fuel Injector (with turbocharger, includes keys 2-3)	-
	RE60062	1	Fuel Injector (without turbocharger, includes keys 2-3)	-
2	R92352	1	Packing	-
3	R500390	1	Washer	-
4	R79604	1	Nut	-
5	R79605	1	Packing	-
6	R79606	1	Tee Fitting	-
7	R116366	1	Screw	-

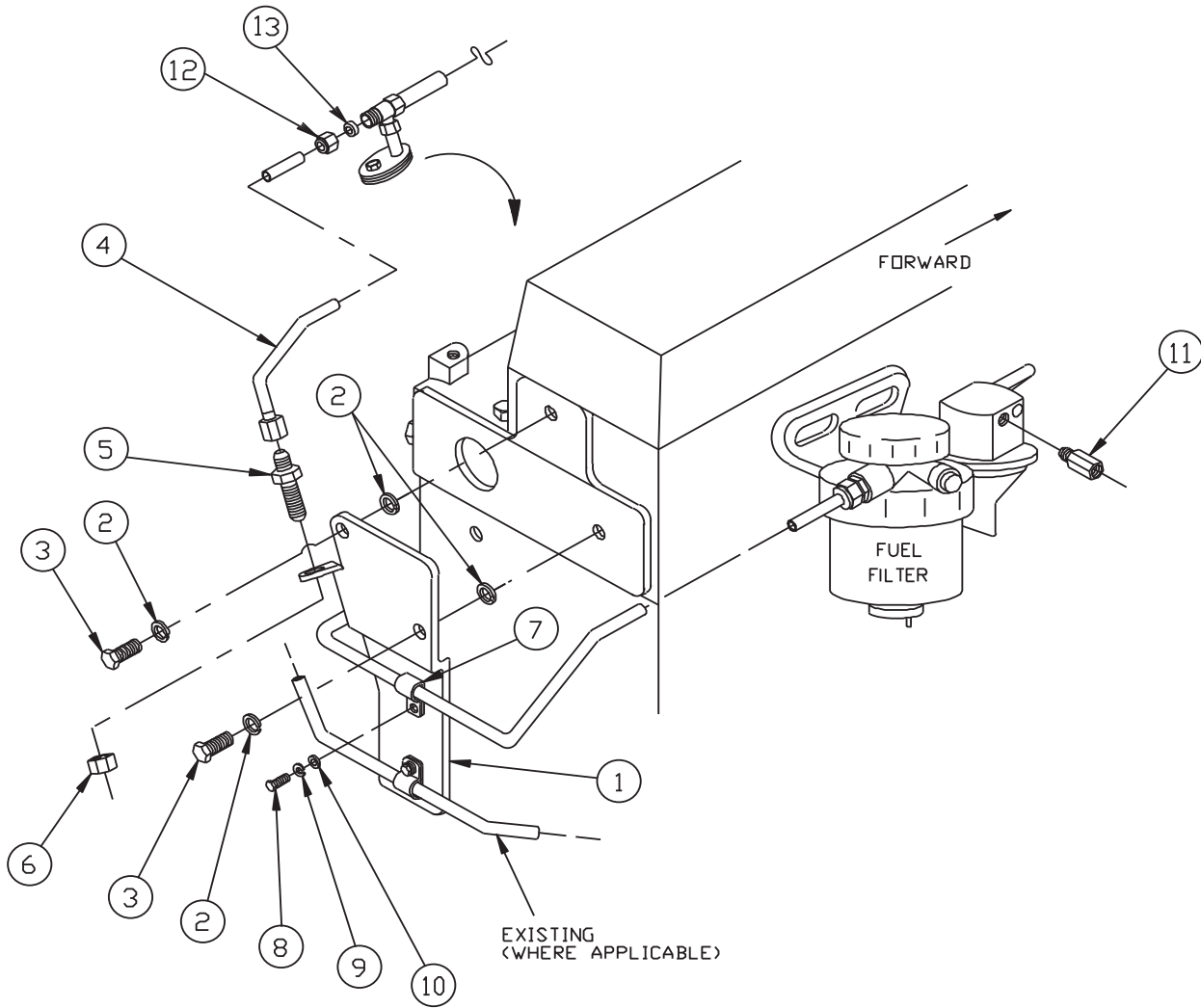
Fuel Filter and Fuel Lines



Fuel Filter and Fuel Lines

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	RE51649	1	Kit	-
2	RE60037	1	Tube Assembly (includes key #19)	-
3	51M7040	1	O-ring	-
4	RE59487	2	Fitting	up to - 706976
	RE60029	2	Fitting	from 706977 -
5	RE56323	2	Plug	up to - 706976
	RE46686	2	Plug, M12 x 1.5	from 706977 -
6	16-59501	1	O-ring	-
7	21-59505	1	Vent Plug Assembly (includes key #6)	-
8A	19M7785	2	Screw, M10 x 25	up to - 795805
8B	19M8328	2	Screw, M10 x 25	from 795806 -
9	RE16553	1	Seal Kit, Fuel Filter (formerly #RE50752)	-
10	24-51003	1	Fuel Filter without Drain Valve	-
	24-51004	1	Fuel Filter with Plastic Drain Valve (NL668T2 only)	-
	24-51005	1	Fuel Filter with Metal Drain Valve (can use on all applications)	-
11	RE63181	1	Filter Head Assembly (replaces RE70358, also order (2) RE60029 and (2) 51M7040)	up to - 706976
	RE70358	1	Filter Head Assembly (Metric ports)	from 706977 -
12	RE60007	1	Tube Assembly (LP668D only)	-
13	14M7298	1	Flange Nut, M8	-
14	T14050	1	Clamp	-
15	R116116	1	Bracket	-
16	19M7865	1	Screw, M8 x 16	-
17	RE60026	1	Tube Assembly	-
18	RE60854	1	Valve & Vent Kit (Industrial Units only)	-
19	R74012	6	Tube Seal	-
20	24M7096	2	Washer	from 795806 -
21	54-51006	1	Drain Valve, Metal	-
	24-51002	1	Drain Valve, Plastic (Industrial Units only)	-

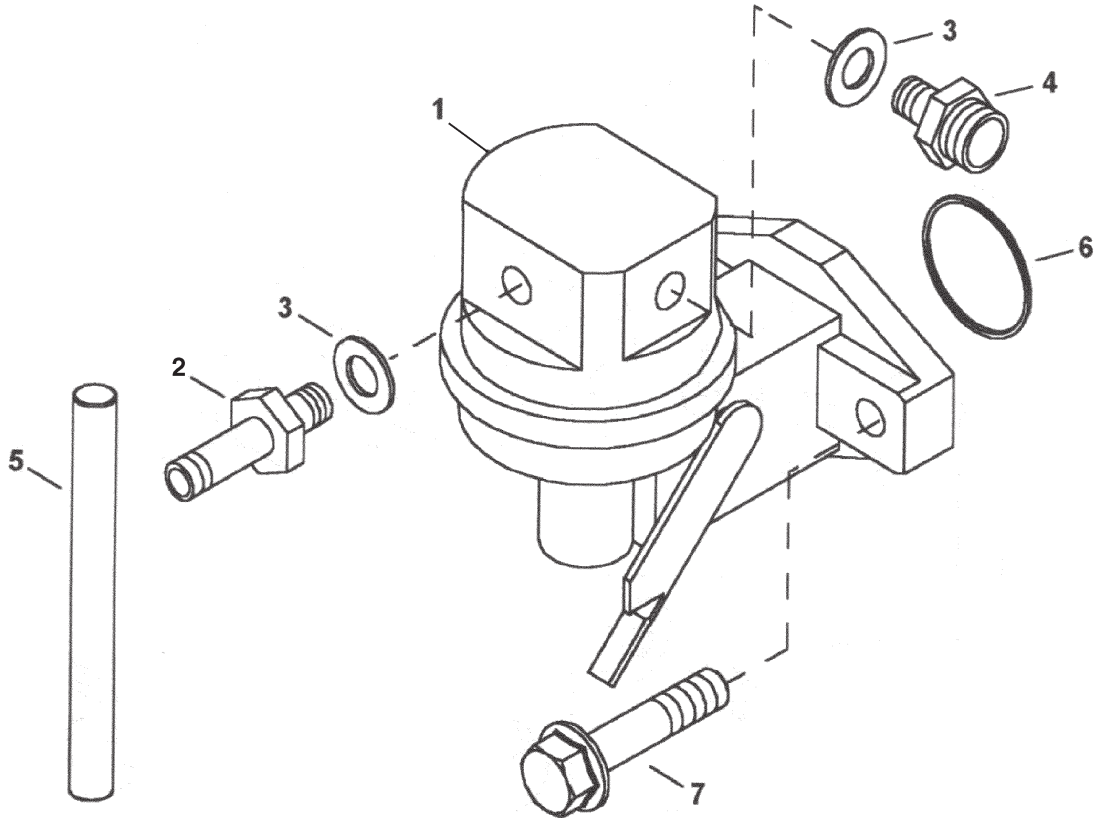
Fuel Supply & Return Connections



A-8507/ C-4210

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-09501	1	Bracket, Tube Support	-
2	15-00802	4	Lock Washer, Helical M10	-
3	12-00805	2	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
4	27-59501	1	Tube Assembly, Fuel Return	-
5	21-52211	1	Bulkhead Union, Steel 1/4-37T	-
6	14-00012	1	Bulkhead Nut, 7/16-20 (1/4-37T)	-
7	19-72252	1	Adelle Clamp 3/8" ID x 3/8" Stud	-
8	12-00751	1	Capscrew, Hex Head M8 x 1.25 x 16 mm	-
9	15-00702	1	Lock Washer, Helical M8	-
10	15-00701	1	Flat Washer M8	-
11	21-60009	1	Flat Adapter, Steel 1/8 NPT x M10 x 1.0	-
12	R123593	1	Nut	-
13	R51936	1	Tube Seal	-

Fuel Transfer Pump

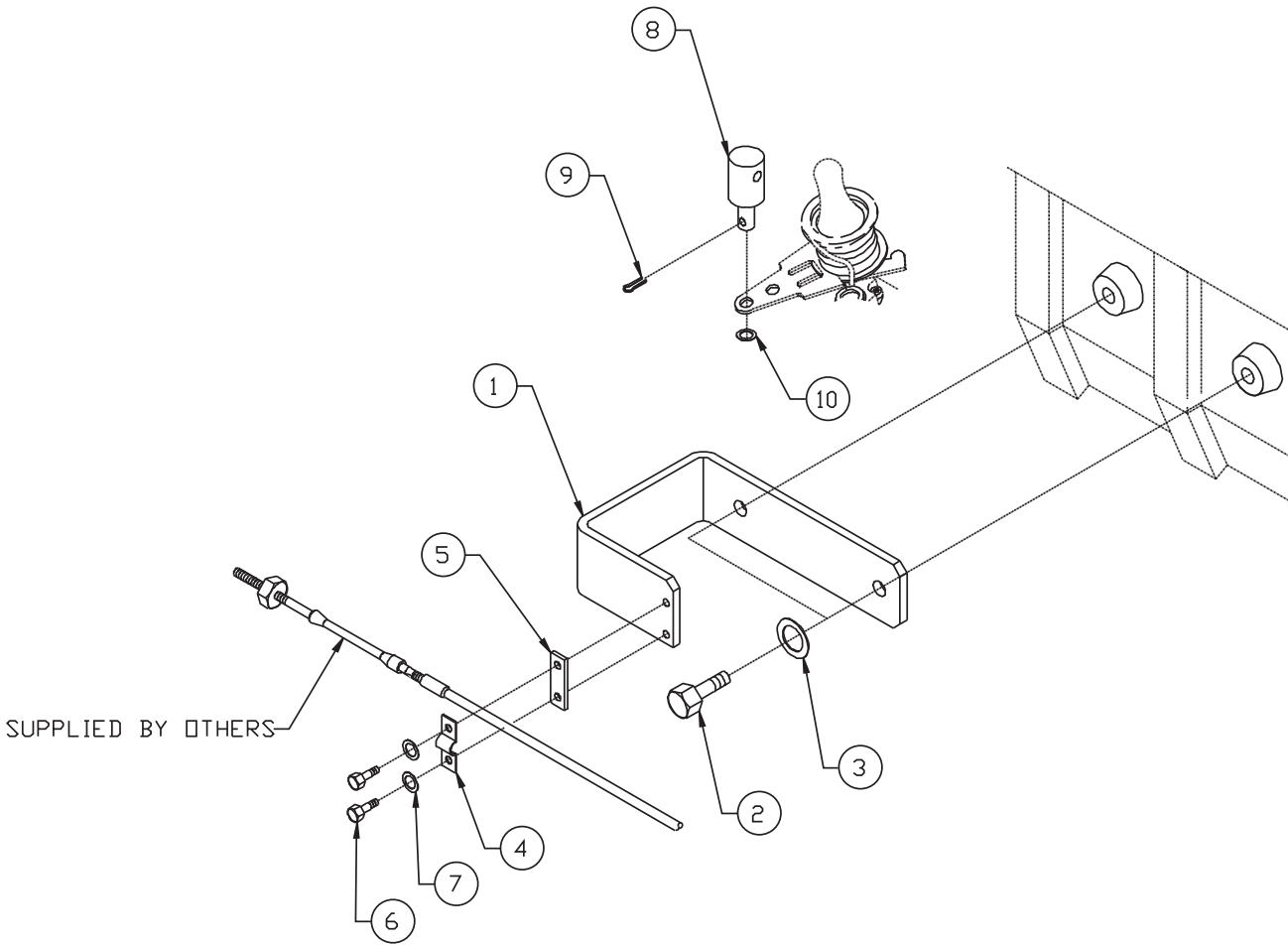


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RGP6186

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE68345	1	Fuel Pump (includes keys 2-5)	-
2	R500269	**	Fitting	-
3	R500271	2	O-ring	-
4	R500270	1	Fitting	-
5	R133405	1	Push Rod	-
6	R123273	1	O-ring	-
7	RE504233	2	Capscrew	-

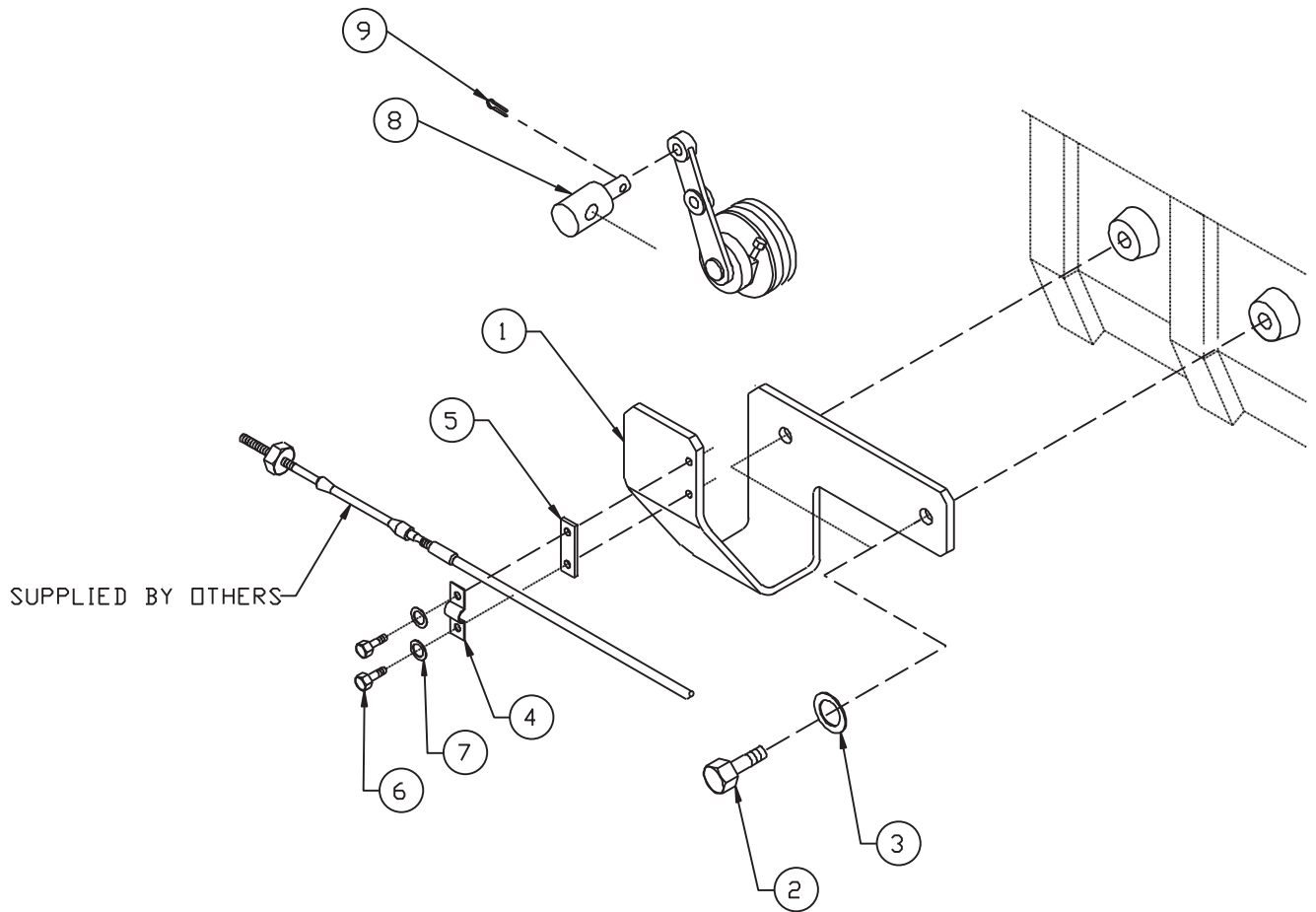
Throttle LP668D



A-8767/ B-6142

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-99601	1	Bracket, Throttle Connection	-
2	12-00831	2	Capscrew, Hex Head, M10 x 1.5 x 25 mm	-
3	15-00804	2	Wave Washer, M10	-
4	23-91001	1	Cable Clamp	-
5	23-91002	1	Clamp Shim	-
6	12-00000	2	Machined Screw, BH Slotted, #10-32 x 1/2"	-
7	15-00033	2	Lock Washer, Helical #10	-
8	23-91003	1	Throttle Pivot	-
9	00-54801	1	Cotter Pin	-
10	15-01134	3	Flat Washer, M6 S/S	-

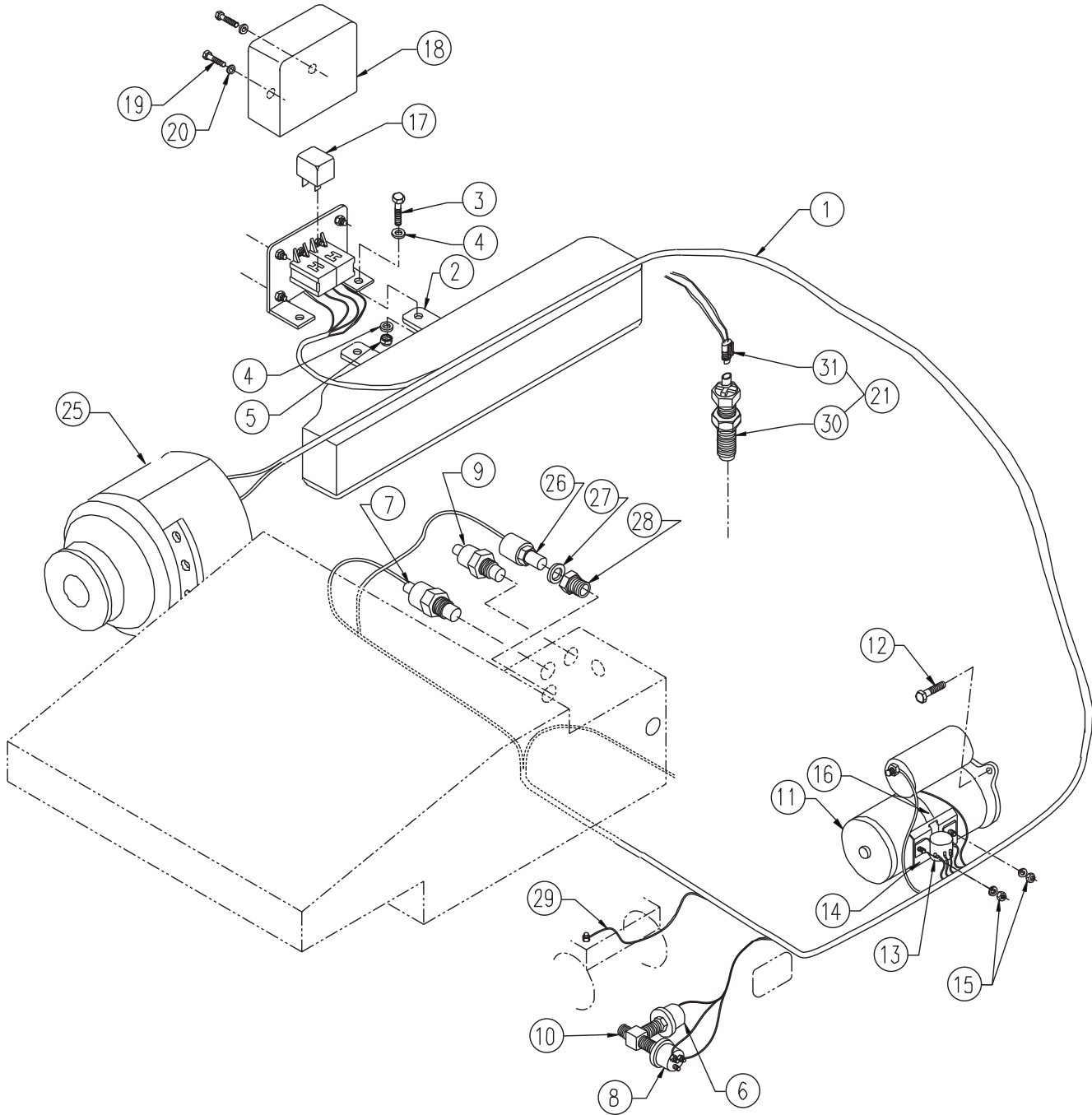
Throttle LP668T



A-8981/ B-8268

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-99602	1	Bracket, Throttle Connection	-
2	12-00831	2	Capscrew, Hex Head, M10 x 1.5 x 25 mm	-
3	15-00804	2	Wave Washer, M10	-
4	23-91001	1	Cable Clamp	-
5	23-91002	1	Clamp Shim	-
6	12-00000	2	Machined Screw, BH Slotted, #10-32 x 1/2"	-
7	15-00033	2	Lock Washer, Helical #10	-
8	23-91003	1	Throttle Pivot	-
9	00-54801	1	Cotter Pin	-

Engine Electrical Kit 12 Volt Standard LP668

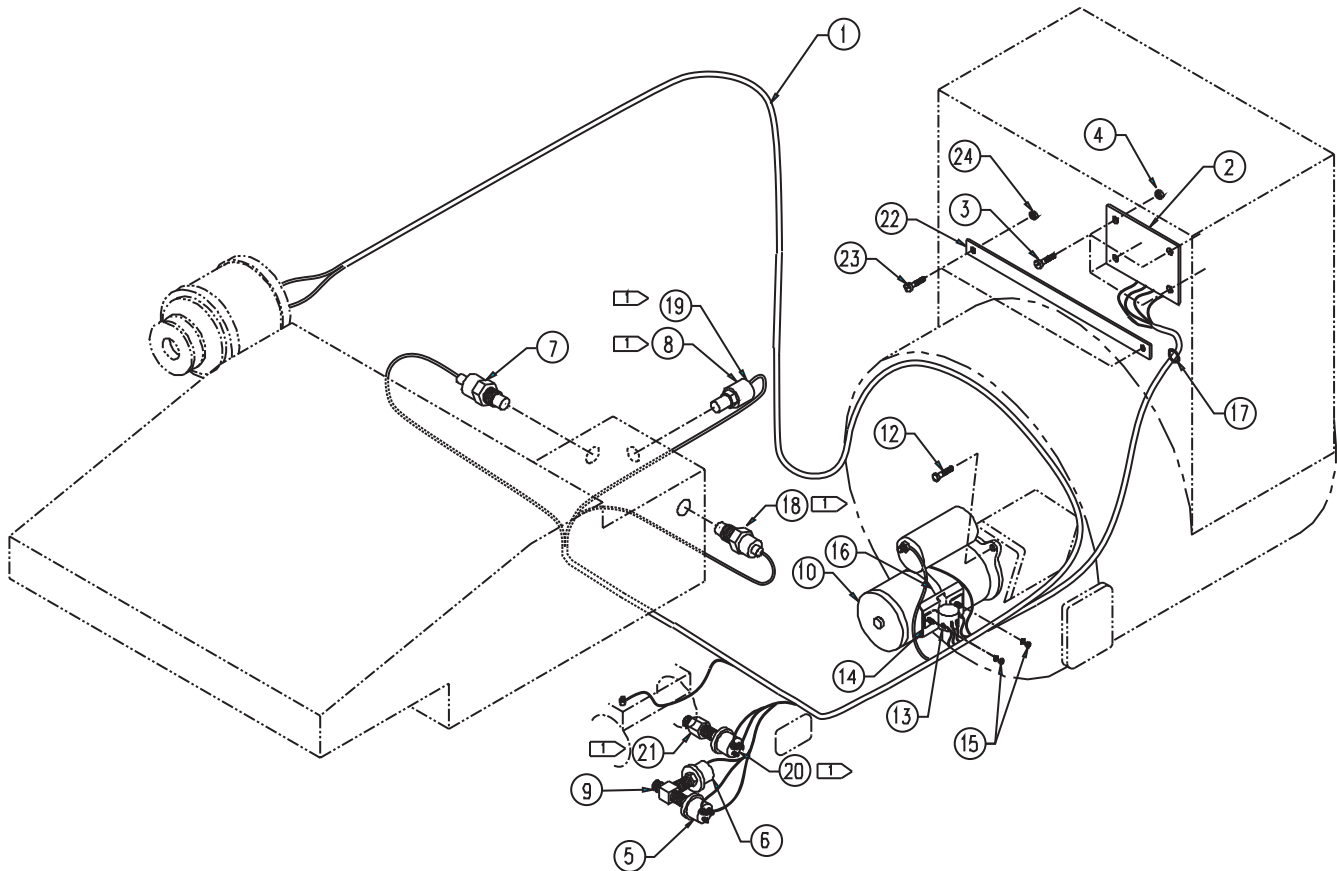


A-8768A/ C-5396

Engine Electrical Kit 12 Volt Standard LP668

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49602	1	Engine Wire Harness, Standard Ground LP668	-
2	23-49507	1	Circuit Breaker and Relay Bracket	-
3	12-00111	2	Capscrew, Hex Head 1/4 -20 x 1"	-
4	15-00121	4	Flat Washer 1/4 SAE	-
5	14-00112	2	Nylock Nut 1/4 -20 x 1"	-
6	22-41016	1	Pressure Sender, 0-80 PSI Standard Ground	-
7	22-41026	1	Temperature Sender, 250°F, Standard Ground	-
8	22-40233	1	Oil Pressure Switch, 15 PSI, N.C. 1/8 NPT, Standard Ground	-
9	22-40920	1	Temperature Switch, 205°F N.O., Standard Ground	-
10	21-05400	1	Street Tee, Steel 1/8 NPT	-
11	RE65190	1	Starter, 12 Volt Standard Ground (Marked RE59593)	-
12	12-80832	3	Cap Screw, Hex Head, Flanged M10 x 1.5 x 30 mm	-
13	22-41080	1	Solenoid, 12 Volt DC 65 amp N.O. Isolated Ground	-
14	23-40009	1	Solenoid Mounting Bracket	-
15	14-00112	2	Hex Nut, Nylock 1/4-20	-
16	19-00088	1	Hose Clamp #88	-
17	22-42047	2	Relay, 12 Volt	-
18	00-44801	1	Circuit Breaker and Relay Cover	-
19	12-00094	2	Machine Screw #10 -32 x 3/8" S/S	-
20	15-70002	2	Flat Washer #10 S/S	-
21	22-40440	1	Magnetic Pick-up & Harness (includes keys #30-31)	-
	22-44812	1	Magnetic Pick-up (replaced by 22-40440)	-
22	22-44813	**	Rubber Boot (not shown)	-
23	22-99600	1	Main Instrument Panel 12 Volt (see parts detail)	-
24	22-41002	1	20' Wire Harness Extension, Double Plug	-
25		1	Alternator & Mounting (See Assembly Detail as required)	-
26	RE503243	1	Temperature Switch (LP668D only)	-
27	16-00005	1	O-ring (LP668D only)	-
28	21-09601	1	Bushing, Steel, 1/2 NPT x M14 x 1.5 (LP668D only)	-
29	22-59504	1	Harness Assembly, Fuel Solenoid (LP668D only)	-
30	22-40439	1	Magnetic Pick-up	-
31	22-40453	1	Connection Harness Assembly	-

Engine Electrical 12 Volt Standard Ground MP668



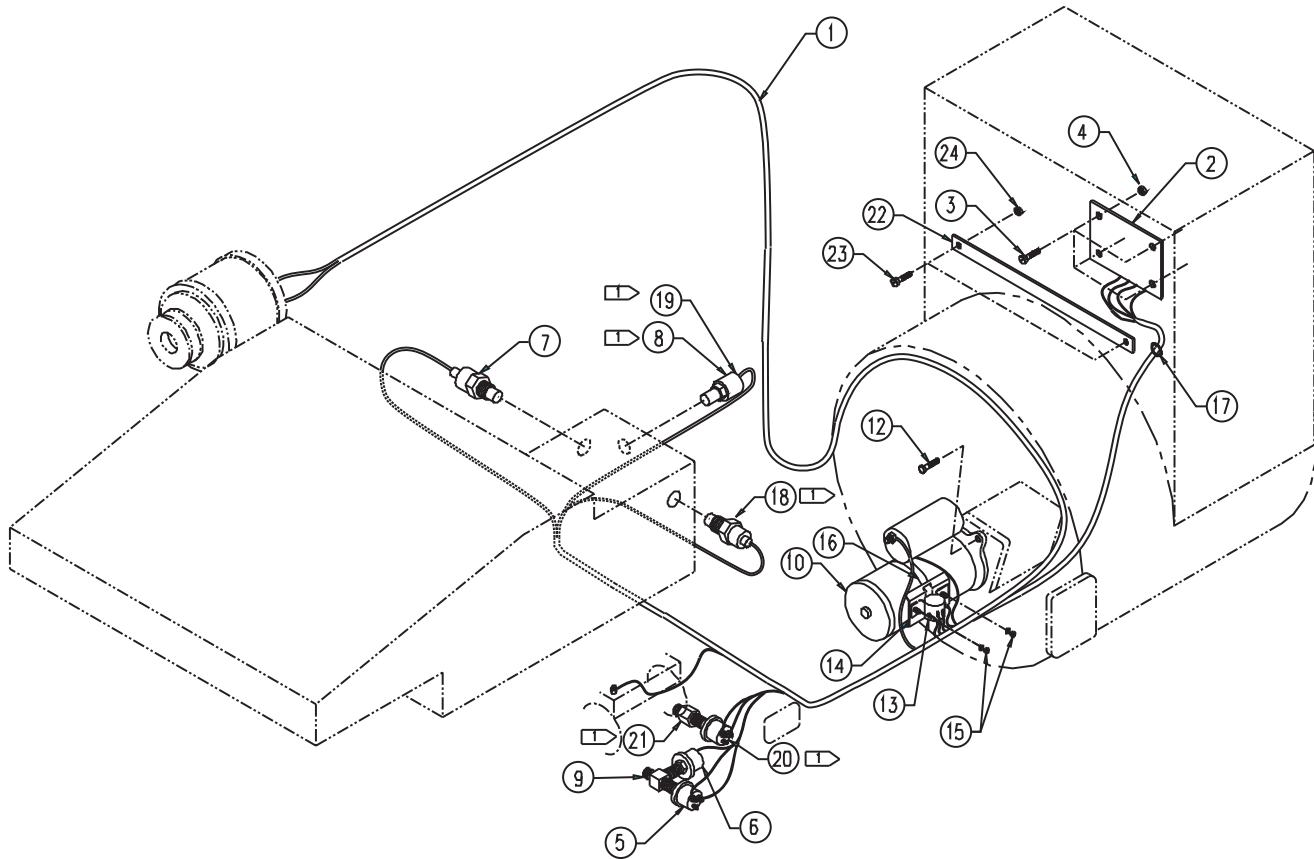
NOTE: 1) INSTALLATION OF PRE-ALARM SWITCHES
REQUIRES DELETION OF EXISTING TEMPERATURE
SHUT-DOWN SWITCH #8. INSTALL NEW TEMPERATURE
SWITCH #18, TEMPERATURE PRE-ALARM SWITCH #19
& PRESSURE PRE-ALARM SWITCH #20(+ ADAPTER #21)
AS SHOWN.

A-8423/ C-4470

Engine Electrical 12 Volt Standard Ground MP668

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49601	1	Engine Wire Harness, Standard Ground	-
2	22-70083	1	Relay Board Assembly, 12 Volt (see parts detail)	-
	22-70086	1	Relay Board Assembly, 12 Volt (Autostart units - see parts detail)	-
3	12-00001	4	Machine Screw, #10-32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-41016	1	Pressure Sender, 0-80 PSI Standard Ground	-
7	22-41026	1	Temperature Sender, 250°F, Standard Ground	-
8	22-40907	1	Temperature Switch, 205°F, (Standard)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	RE65190	1	Starter, 12 Volt Standard Ground (Marked RE59593)	-
12	12-80832	3	Cap Screw, Hex Head, Flanged M10 x 1.5 x 30 mm	-
13	22-41080	1	Solenoid, 12 Volt DC 65 amp N.O. Isolated Ground	-
14	23-40009	1	Solenoid Mounting Bracket	-
15	14-00112	2	Hex Nut, Nylock 1/4-20	-
16	19-00088	1	Hose Clamp #88	-
17	00-40028	1	Grommet	-
18	22-40902	1	Temperature Switch 205°F (with Pre-alarm option)	-
19	22-40910	1	Temperature Switch 195°F (with Pre-alarm option)	-
20	22-40901	1	Pressure Switch, 25 PSI (with Pre-alarm option)	-
21	21-00023	1	Adapter, 1/8 NPT (with Pre-alarm option)	-
22	22-41077	1	Terminal Strip (with Pre-alarm option)	-
23	12-00005	2	Machine Screw #8-32 x 3/4"	-
24	14-00003	2	Nylock Nut #8-32	-

Engine Electrical 12 Volt Isolated Ground MP668



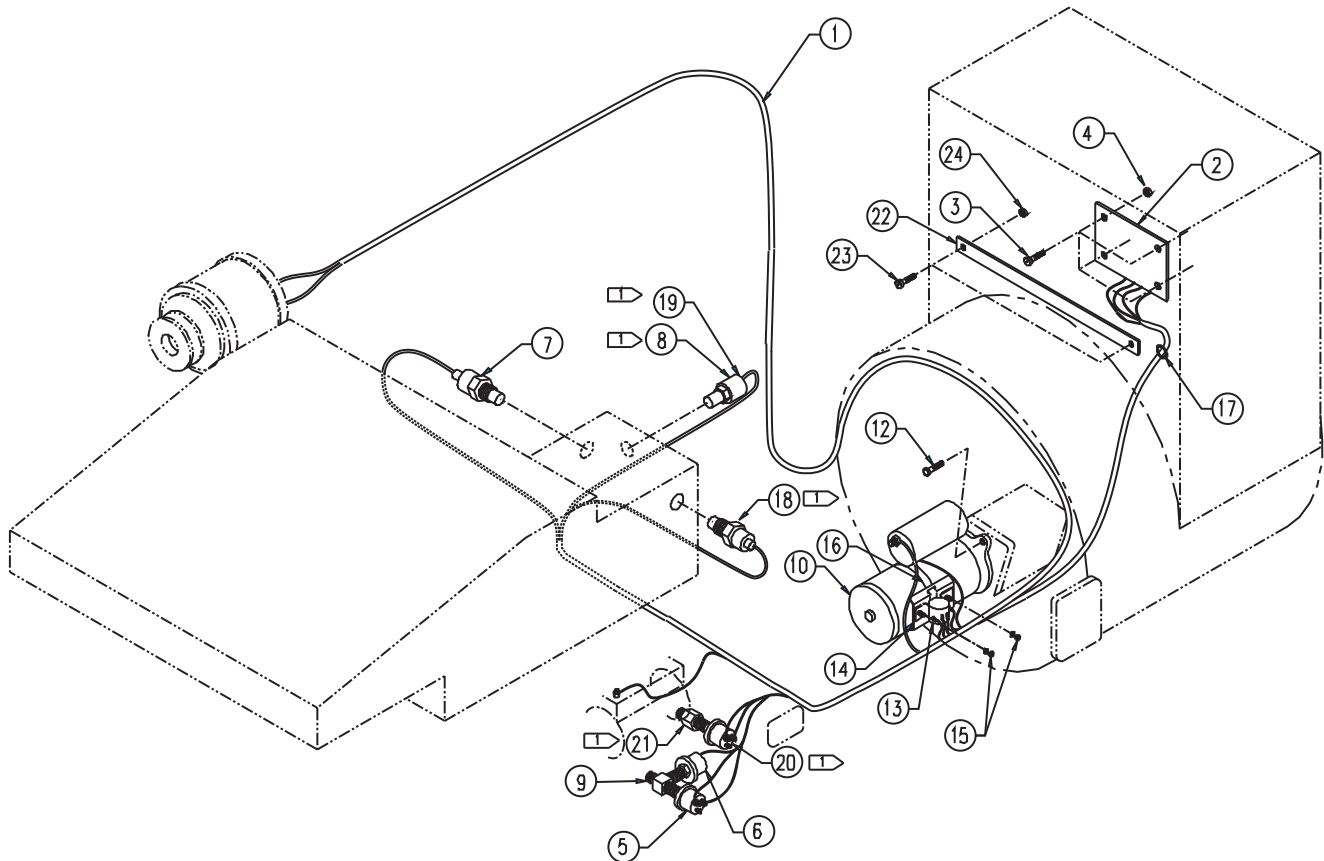
NOTE: 1) INSTALLATION OF PRE-ALARM SWITCHES
 REQUIRES DELETION OF EXISTING TEMPERATURE
 SHUT-DOWN SWITCH #8, INSTALL NEW TEMPERATURE
 SWITCH #18, TEMPERATURE PRE-ALARM SWITCH #19
 & PRESSURE PRE-ALARM SWITCH #20(+ ADAPTER #21)
 AS SHOWN.

A-8527/ C-4470

Engine Electrical 12 Volt Isolated Ground MP668

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49604	1	Engine Wire Harness, Isolated Ground MP668	-
2	22-70083	1	Relay Board Assembly 12 Volt (see parts detail)	-
	22-70086	1	Relay Board Assembly 12 Volt (Autostart units - see parts detail)	-
3	12-00001	4	Machine Screw, BH Slotted, #10-32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-42803	1	Pressure Sender, 0-80 PSI Isolated Ground	-
7	22-42802	1	Temperature Sender, 250°F, Isolated Ground	-
8	22-40907	1	Temperature Switch, 205°F, (Standard)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	22-41647	1	Starter, 12 Volt Isolated Ground	-
12	12-80832	3	Cap Screw, Hex Head, Flanged M10 x 1.5 x 30 mm	-
13	22-41080	1	Solenoid, 12 Volt DC 65 amp N.O. Isolated Ground	-
14	23-40009	1	Solenoid Mounting Bracket	-
15	14-00112	2	Hex Nut, Nylock 1/4-20	-
16	19-00088	1	Hose Clamp #88	-
17	00-40028	1	Grommet	-
18	22-40902	1	Temperature Switch 205°F (with Pre-alarm option)	-
19	22-40910	1	Temperature Switch 195°F (with Pre-alarm option)	-
20	22-40901	1	Pressure Switch, 25 PSI (with Pre-alarm option)	-
21	21-00023	1	Adapter, 1/8 NPT (with Pre-alarm option)	-
22	22-41077	1	Terminal Strip (with Pre-alarm option)	-
23	12-00005	2	Machine Screw #8-32 x 3/4"	-
24	14-00003	2	Nylock Nut #8-32	-

Engine Electrical 24 Volt Standard Ground MP668



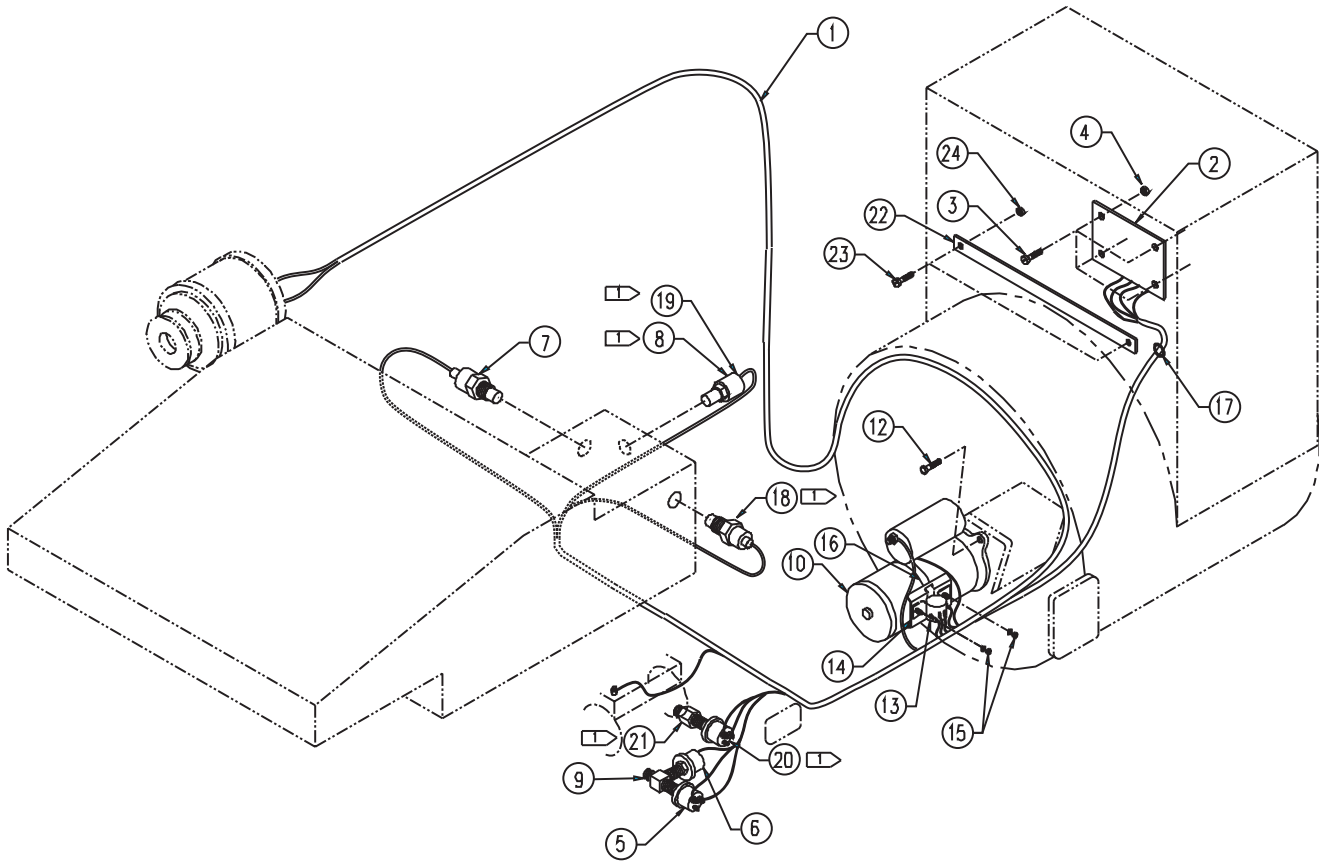
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 SHUT-DOWN SWITCH #8. INSTALL NEW TEMPERATURE
 SWITCH #18, TEMPERATURE PRE-ALARM SWITCH #19
 & PRESSURE PRE-ALARM SWITCH #20(+ ADAPTER #21)
 AS SHOWN.

A-8528/ C-4470

Engine Electrical 24 Volt Standard Ground MP668

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49601	1	Engine Wire Harness, Standard Ground MP6	-
2	22-70084	1	Relay Board Assembly 24 Volt (see parts detail)	-
	22-70087	1	Relay Board Assembly 24 Volt (Autostart units - see parts detail)	-
3	12-00001	4	Machine Screw, BH Slotted, #10-32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-41016	1	Pressure Sender, 0-80 PSI Standard Ground	-
7	22-41026	1	Temperature Sender, 250°F, Standard Ground	-
8	22-40907	1	Temperature Switch, 205°F (Standard)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	22-41648	1	Starter, 24 Volt Isolated Ground	-
12	12-80832	3	Cap Screw, Hex Head, Flanged M10 x 1.5 x 30 mm	-
13	22-41079	1	Solenoid, 24 Volt DC 65 amp N.O. Isolated Ground	-
14	23-40009	1	Solenoid Mounting Bracket	-
15	14-00112	2	Hex Nut, Nylock 1/4-20	-
16	19-00088	1	Hose Clamp #88	-
17	00-40028	1	Grommet, 7/8" I.D. x 1-3/8" O.D. 5/64" G.W.	-
18	22-40902	1	Temperature Switch 205°F (with Pre-alarm option)	-
19	22-40910	1	Temperature Switch 195°F (with Pre-alarm option)	-
20	22-40901	1	Pressure Switch, 25 PSI (with Pre-alarm option)	-
21	21-00023	1	Adapter, 1/8 NPT (with Pre-alarm option)	-
22	22-41077	1	Terminal Strip (with Pre-alarm option)	-
23	12-00005	2	Machine Screw #8-32 x 3/4"	-
24	14-00003	2	Nylock Nut #8-32	-

Engine Electrical 24 Volt Isolated Ground MP668



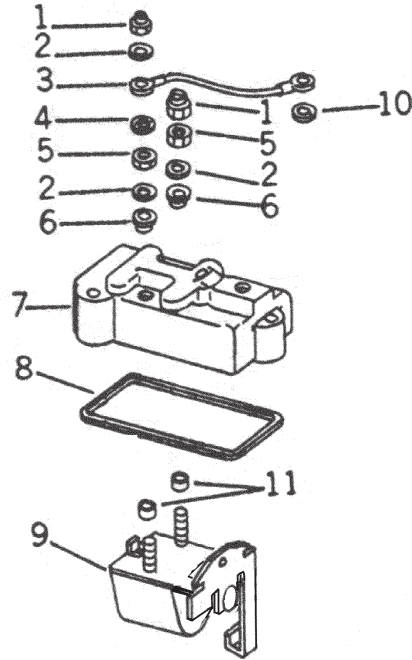
NOTE: 1) INSTALLATION OF PRE-ALARM SWITCHES
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SHUT-DOWN SWITCH #8. INSTALL NEW TEMPERATURE
SWITCH #18, TEMPERATURE PRE-ALARM SWITCH #19
& PRESSURE PRE-ALARM SWITCH #20(+ ADAPTER #21)
AS SHOWN.

A-8529/ C-4470

Engine Electrical 24 Volt Isolated Ground MP668

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49604	1	Engine Wire Harness, Isolated Ground MP6	-
2	22-70084	1	Relay Board Assembly 24 Volt (see parts detail)	-
	22-70087	1	Relay Board Assembly 24 Volt (Autostart units - see parts detail)	-
3	12-00001	4	Machine Screw, #10-32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-42803	1	Pressure Sender, 0-80 PSI Isolated Ground	-
7	22-42802	1	Temperature Sender, 250°F, Isolated Ground	-
8	22-40907	1	Temperature Switch, 205°F (Standard)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	22-41648	1	Starter, 24 Volt Isolated Ground	-
12	12-80832	3	Cap Screw, Hex Head, Flanged M10 x 1.5 x 30 mm	-
13	22-41079	1	Solenoid, 24 Volt DC 65 amp N.O. Isolated Ground	-
14	23-40009	1	Solenoid Mounting Bracket	-
15	14-00112	2	Hex Nut, Nylock 1/4-20	-
16	19-00088	1	Hose Clamp #88	-
17	00-40028	1	Grommet	-
18	22-40902	1	Temperature Switch 205°F (with Pre-alarm option)	-
19	22-40910	1	Temperature Switch 195°F (with Pre-alarm option)	-
20	22-40901	1	Pressure Switch, 25 PSI (with Pre-alarm option)	-
21	21-00023	1	Adapter, 1/8 NPT (with Pre-alarm option)	-
22	22-41077	1	Terminal Strip (with Pre-alarm option)	-
23	12-00005	2	Machine Screw #8-32 x 3/4"	-
24	14-00003	2	Nylock Nut #8-32	-

Stop Solenoid 12 and 24 Volt (Injection Pump Mounted)



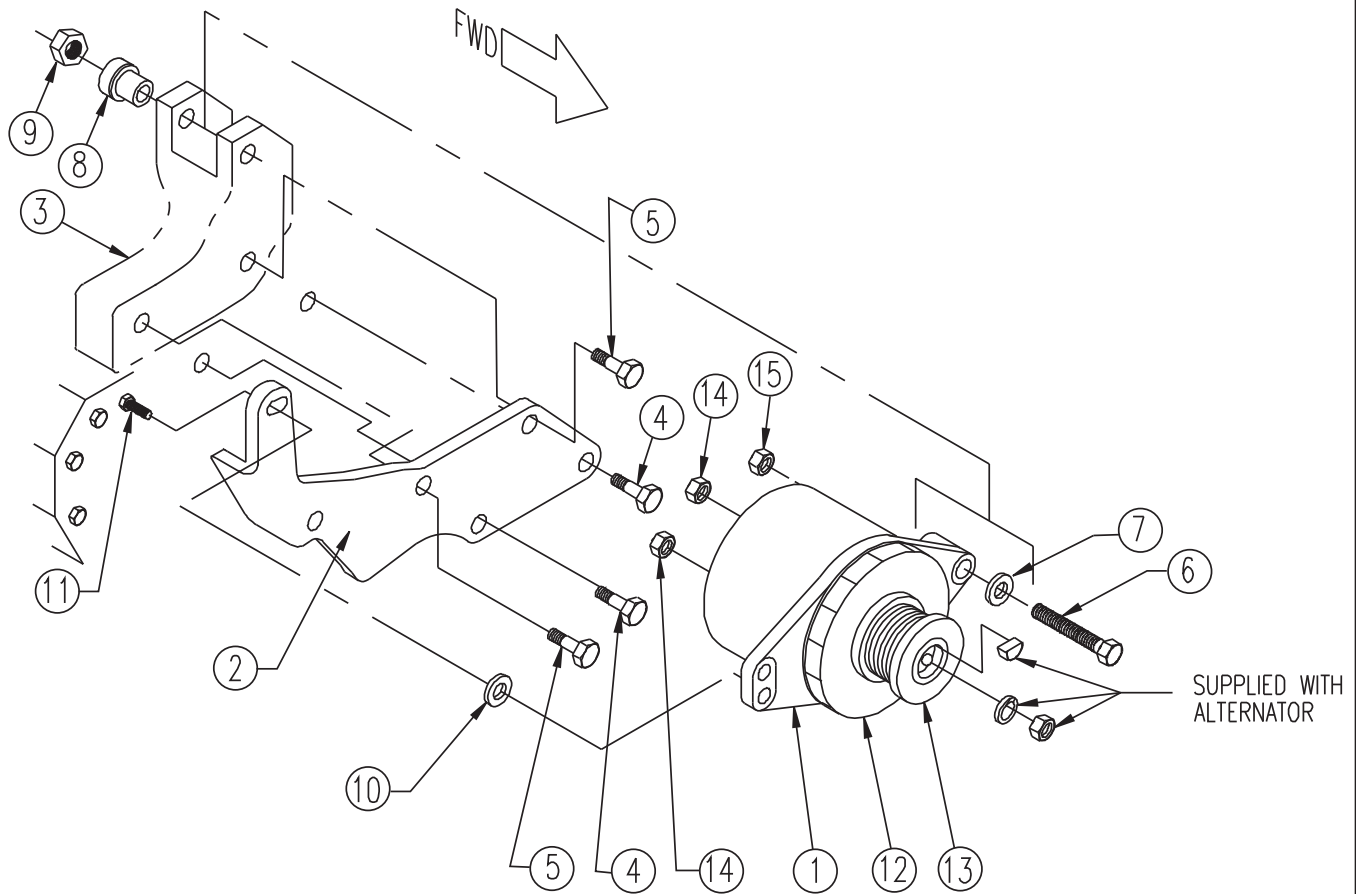
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T20527

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE37091	1	Hardware Kit (Includes Keys #1-6 and 10)	
1	M63431	2	Lock Nut	-
2		3	Washer *	-
3	AR50874	**	Strap	-
4	R47077	1	Lock Washer	-
5		2	Nut *	-
6		2	Washer *	-
7	T11919	1	Cover (without penetrations for solenoid terminals - manual shut-off)	-
	26-41001	1	Cover (with penetrations for solenoid terminals)	-
8	T11918	1	Gasket	-
9	RE37089	1	Solenoid Assembly, 12 Volt (Generator Units - Energize-to-run, includes keys 11)	-
	22-51000	1	Solenoid Assembly, 24Volt (Generator Units - Energize-to-run, includes key 11)	-
	22-51002	1	Solenoid Assembly, 6 Volt (Propulsion Units - Energize-to-stop, 12 Volt System use, includes key 11)	-
	22-51003	1	Solenoid Assembly, 12 Volt (Propulsion Units - Energize-to-stop, 24 Volt System use, includes key 11)	-
10	12H295	1	Internal Star Washer #10	-
11	T11937	2	Insulator	-
			* Not available separately.	
			** As required.	

12 Volt 55 Amp Medium Frame Alternator & Mounting

Marine Generator & Propulsion Units

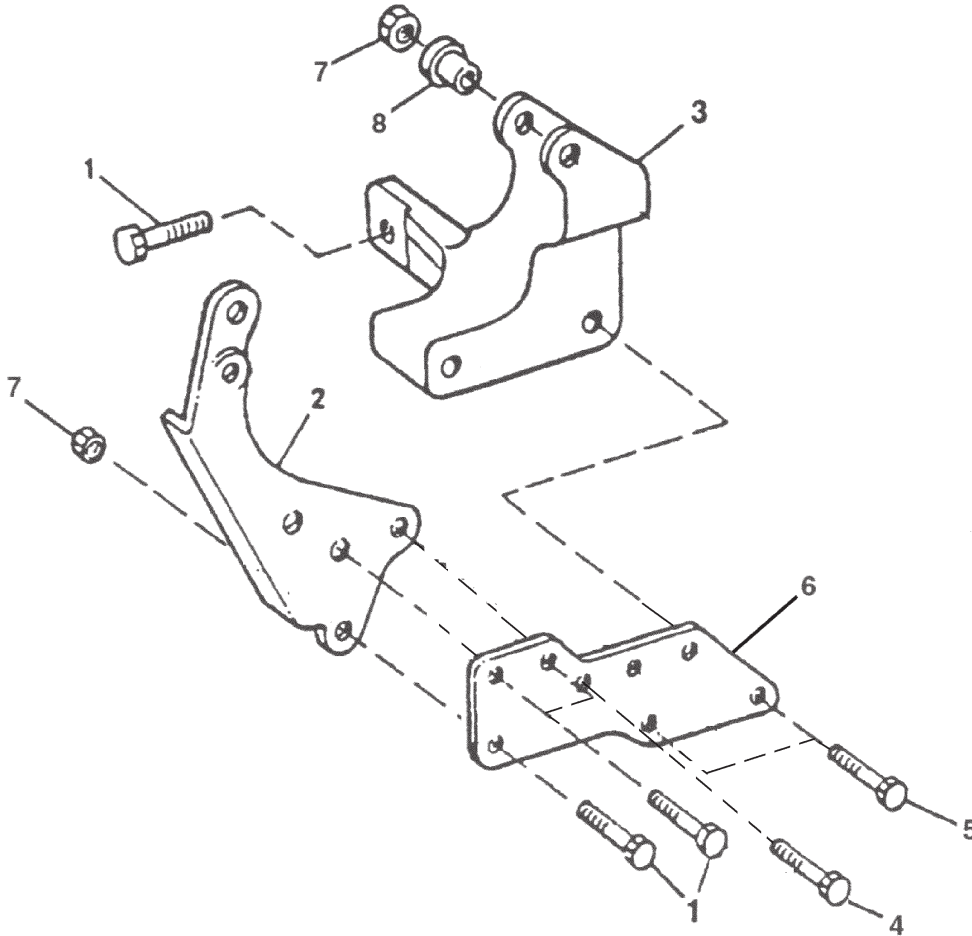


A-8530/ B-6406A

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE506196	1	Alternator, 12 Volt 55 Amp, Standard Ground (includes keys 12-15, formerly #RE506134)	-
2	23-49501	1	Bracket, Medium Frame Alternator Mounting	-
3	R132166	1	Bracket	-
4	19M7801	2	Capscrew, Hex Head, Flanged, M8 x 1.25 x 60 mm	-
5	19M7785	2	Capscrew, Hex Head, Flanged, M10 x 1.5 x 25 mm	-
6	12-80088	1	Capscrew, Hex Head, Flanged, M10 x 1.5 x 95 mm	-
7	R64525	1	Shim	-
8	R100377	1	Bushing	-
9	14-80811	1	Flange Nut	-
10	15-49501	**	Spacer	-
11	12-80753	1	Capscrew, Hex Head, Flanged, M8 x 1.25 x 30 mm	-
12	T158584	1	Fan	-
13	R501192	1	Pulley	-
14	14M7265	2	Lock Nut	-
15	14M7165	1	Lock Nut	-

Medium Frame Alternator Mounting

Industrial Generator Units



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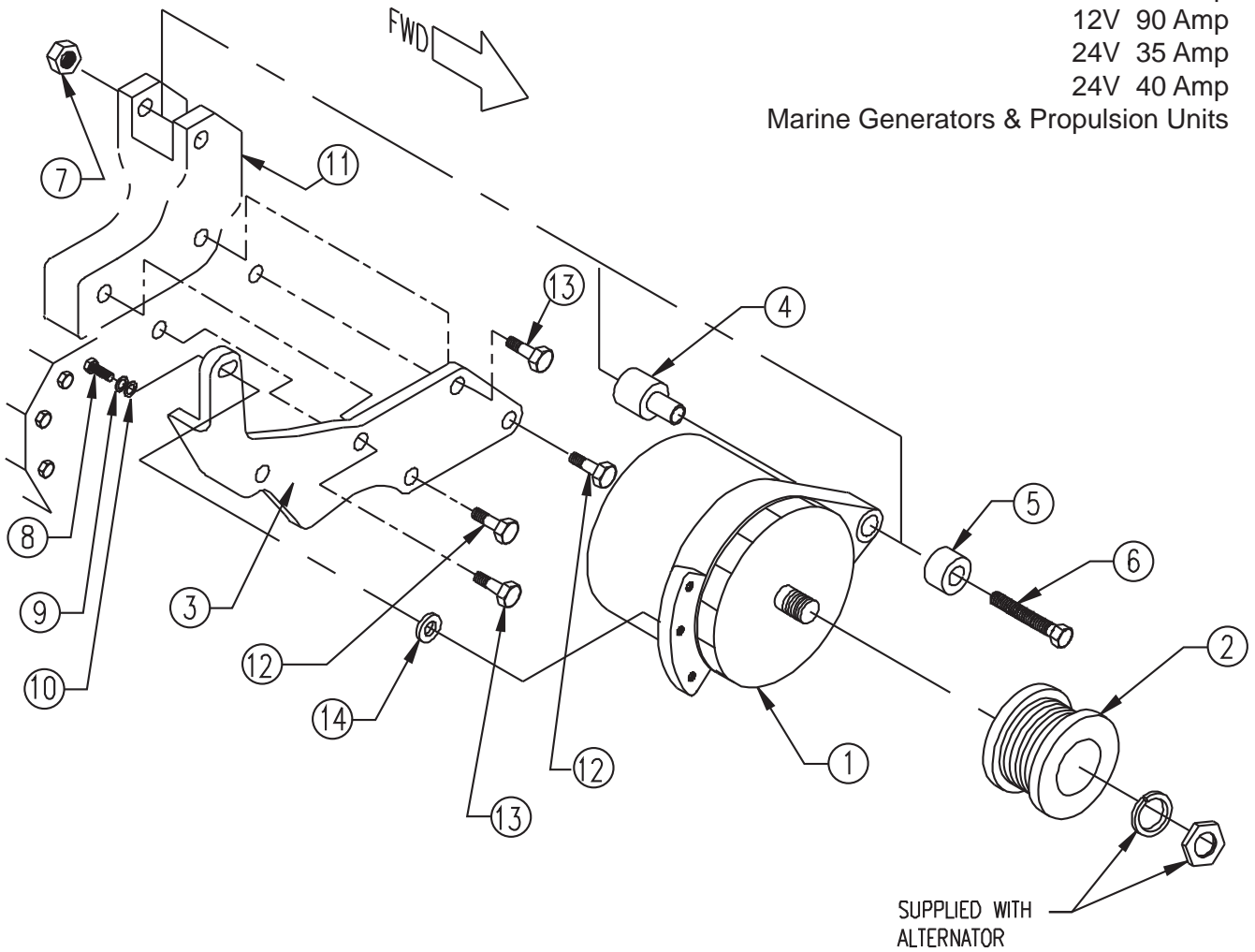
RGP6256

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	19M7786	5	Screw, M10 x 30	-
2	R132167	1	Strap	-
3	R132166	1	Bracket	-
4	19M7785	2	Cap Screw, M10 x 25	-
5	19M7801	2	Screw, M8 x 60	-
6	R132913	1	Support	-
7	14M7296	3	Flange Nut, M10	-
8	R100377	1	Bushing	-

Medium Frame Alternators & Mounting

12V 65 Amp
 12V 90 Amp
 24V 35 Amp
 24V 40 Amp

Marine Generators & Propulsion Units

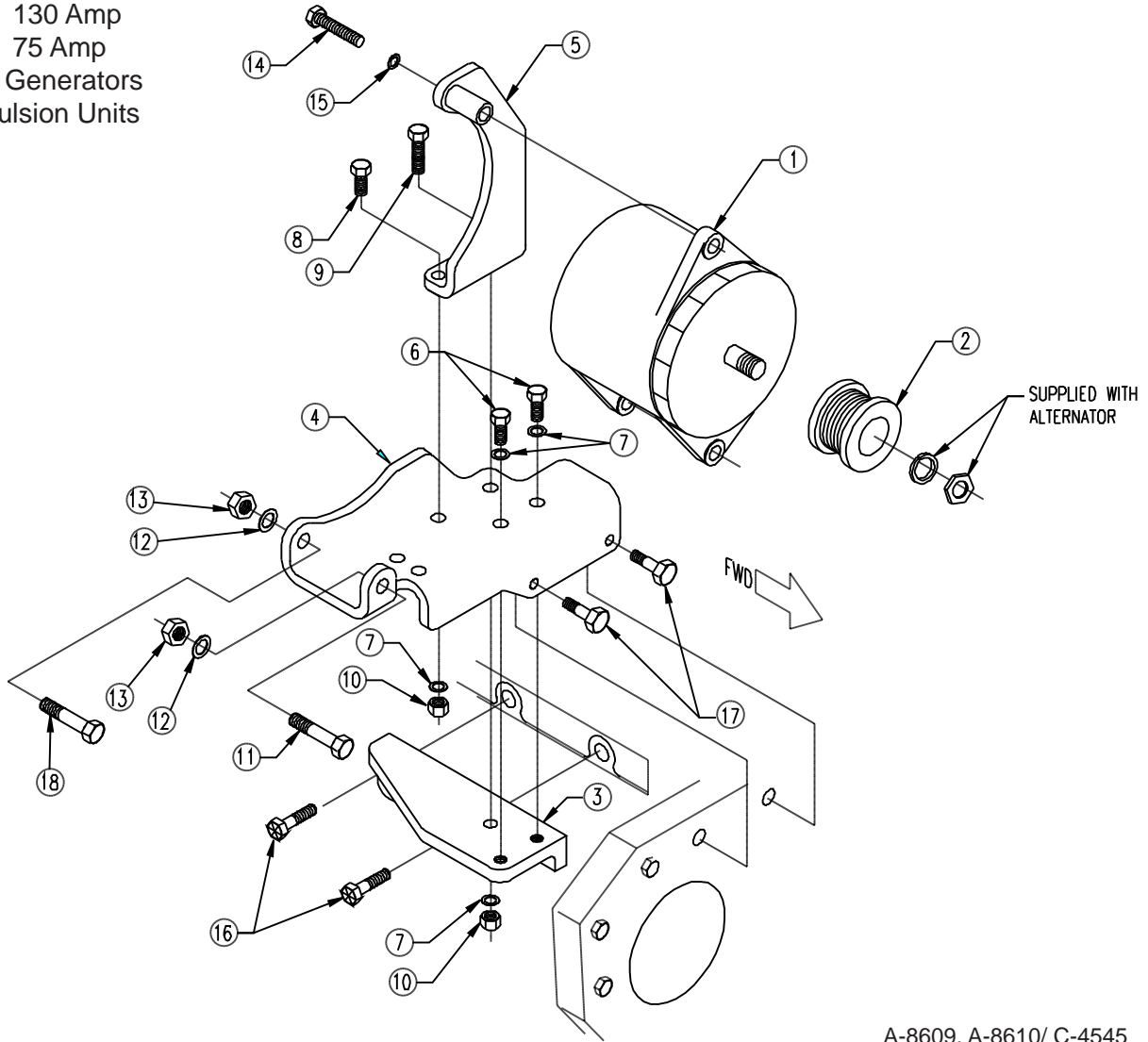


A-8531, A-8532, A-8533/ B-6405

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-40276	1	Alternator, 12 Volt 65 Amp Standard Ground	-
	22-40332	1	Alternator, 12 Volt 90 Amp Isolated Ground	-
	22-71052	1	Alternator, 24 Volt 35 Amp Isolated Ground	-
	22-40278	1	Alternator, 24 Volt 40 Amp Standard Ground	-
2	34-49502	1	Pulley, 8 Groove, 2.36" O.D. x 5/8" I.D.	-
3	23-49501	1	Medium Frame Alternator Mounting Bracket	-
4	31-49501	1	Alternator Mounting Adapter	-
5	21-49502	1	Spacer, Steel, 1" O.D. x 13/32" I.D. x 6.8 mm	-
6	12-80088	1	Capscrew, Hex Head Flanged, M10 x 1.5 x 95 mm	-
7	14-80811	1	Hex Nut, Flanged, M10 x 1.5	-
8	12-00213	1	Capscrew, Hex Head 5/16-18 x 1-1/4"	-
9	15-00202	1	Lock Washer, Helical 5/16	-
10	15-00221	1	Flat Washer 5/16" SAE	-
11	R132166	1	Bracket	-
12	19M7801	2	Capscrew, Hex Head, Flanged, M8 x 1.25 x 60 mm	-
13	19M7785	2	Capscrew, Hex Head, Flanged, M10 x 1.5 x 25 mm	-
14	15-49501	**	Spacer (**As required)	-

Large Frame Alternators & Mounting

12 Volt 130 Amp
 24 Volt 75 Amp
 Marine Generators
 & Propulsion Units

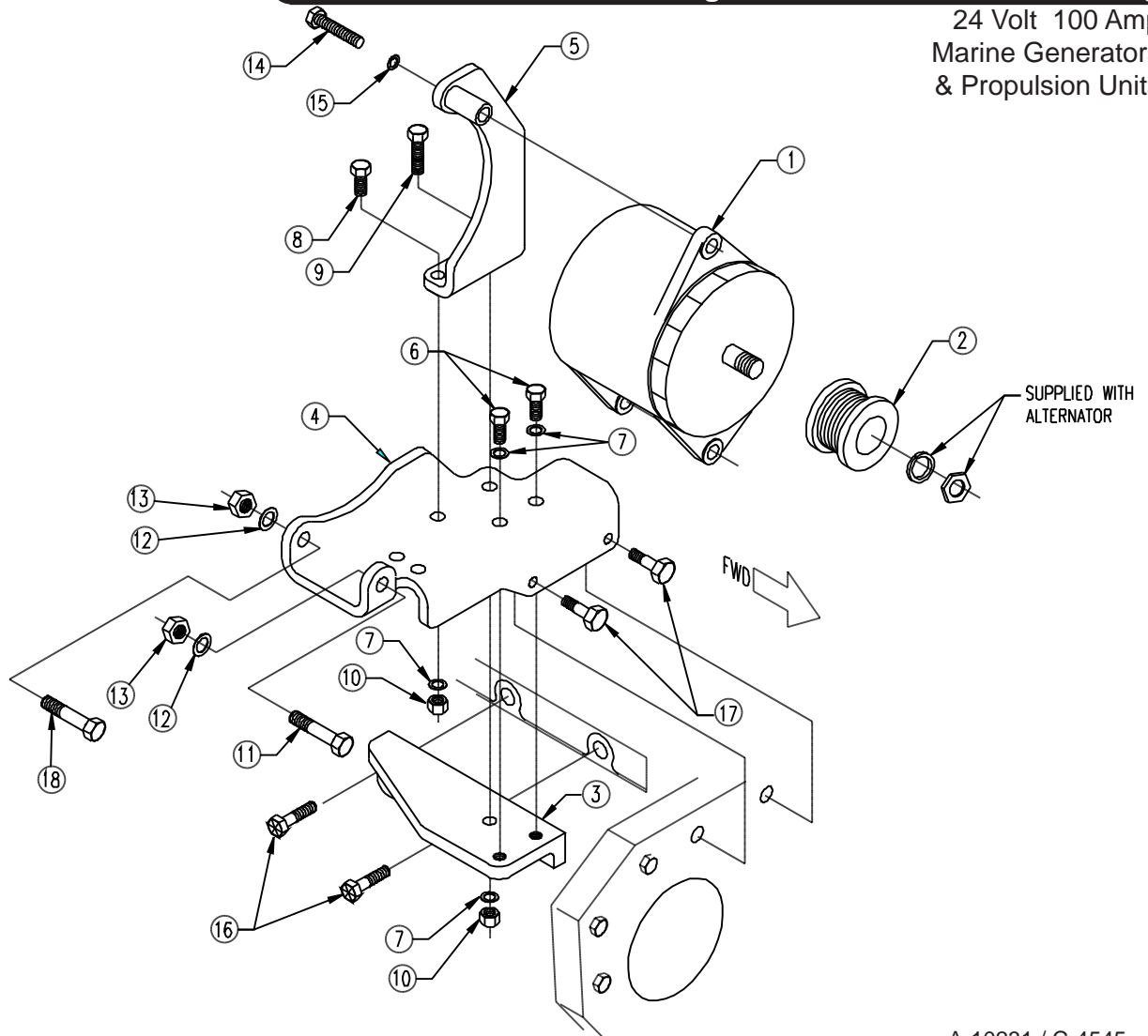


A-8609, A-8610/ C-4545

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-40282	1	Alternator, 12 Volt 130 Amp Isolated Ground	-
	22-40277	1	Alternator, 24 Volt 75 Amp Isolated Ground	-
2	34-49503	1	Pulley, 8 Groove, 3-1/4" O.D. x 7/8" I.D.	-
3	23-49502	1	Alternator Support Mounting Bracket	-
4	23-49503	1	Alternator Mounting Bracket	-
5	23-49504	1	Alternator Mounting Bracket	-
6	12-00831	2	Cap Screw, Hex Head Flanged, M10 x 1.5 x 25 mm	-
7	15-00802	4	Lock Washer, Helical, M10	-
8	12-00814	1	Capscrew, Hex Head, M10 x 1.5 x 35 mm	-
9	12-00812	1	Capscrew, Hex Head, M10 x 1.5 x 40 mm	-
10	14-00811	2	Hex Nut, M10 x 1.5	-
11	12-00515	1	Capscrew, Hex Head 1/2-13 x 1-3/4"	-
12	15-00504	3	Flat Washer, 1/2" SAE	-
13	14-00512	2	Hex Nut, Nylock 1/2-13	-
14	12-00518	1	Capscrew, Hex Head, 1/2-13 x 2-1/2"	-
15	15-00502	1	Lock Washer, Helical 1/2"	-
16	19M7786	**	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm (**As required)	-
17	19M7801	2	Capscrew, Hex Head Flanged M8 x 1.25 x 60 mm	-
18	12-00516	1	Capscrew, Hex Head 1/2-13 x 2"	-

Large Frame Alternator & Mounting

24 Volt 100 Amp
Marine Generators
& Propulsion Units

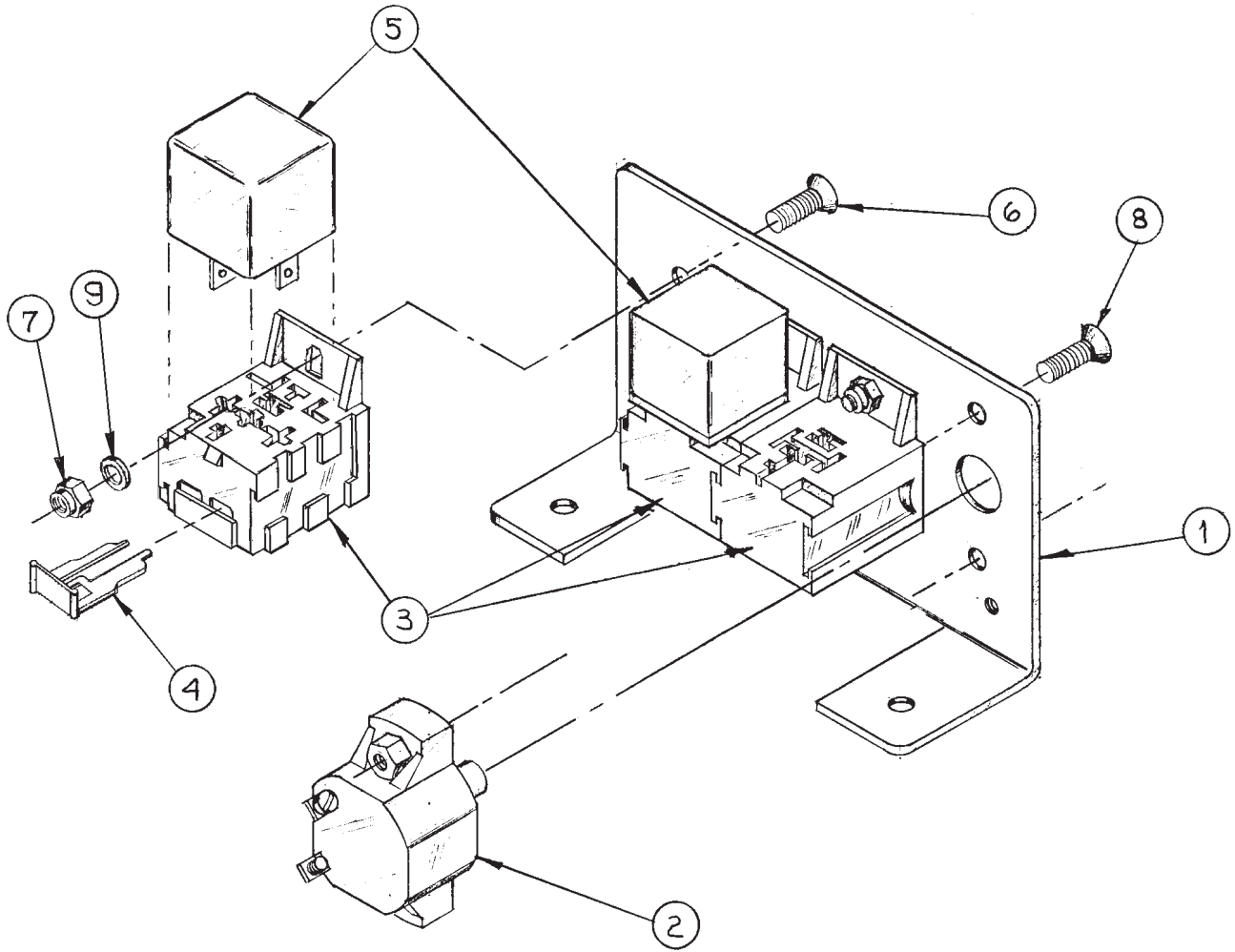


A-10231 / C-4545

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-45018	1	Alternator, 24 Volt 100 Amp Isolated Ground	-
2	34-40002	1	Pulley, 8 Groove, 3-1/4" O.D. x 7/8" I.D.	-
3	23-49502	1	Alternator Support Mounting Bracket	-
4	23-49503	1	Alternator Mounting Bracket	-
5	23-49505	1	Alternator Mounting Bracket	-
6	12-00831	2	Capscrew, Hex Head Flanged, M10 x 1.5 x 25 mm	-
7	15-00802	4	Lock Washer, Helical, M10	-
8	12-00814	1	Capscrew, Hex Head, M10 x 1.5 x 35 mm	-
9	12-00812	1	Capscrew, Hex Head, M10 x 1.5 x 40 mm	-
10	14-00811	2	Hex Nut, M10 x 1.5	-
11	12-00515	1	Capscrew, Hex Head 1/2-13 x 1-3/4"	-
12	15-00504	3	Flat Washer, 1/2" SAE	-
13	14-00512	2	Hex Nut, Nylock 1/2-13	-
14	12-00518	1	Capscrew, Hex Head, 1/2-13 x 2-1/2"	-
15	15-00502	1	Lock Washer, Helical 1/2"	-
16	19M7786	**	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm (**As required)	-
17	19M7801	2	Capscrew, Hex Head Flanged M8 x 1.25 x 60 mm	-
18	12-00516	1	Capscrew, Hex Head 1/2-13 x 2"	-

Harness Assembly with Circuit Breaker and Relay Panel

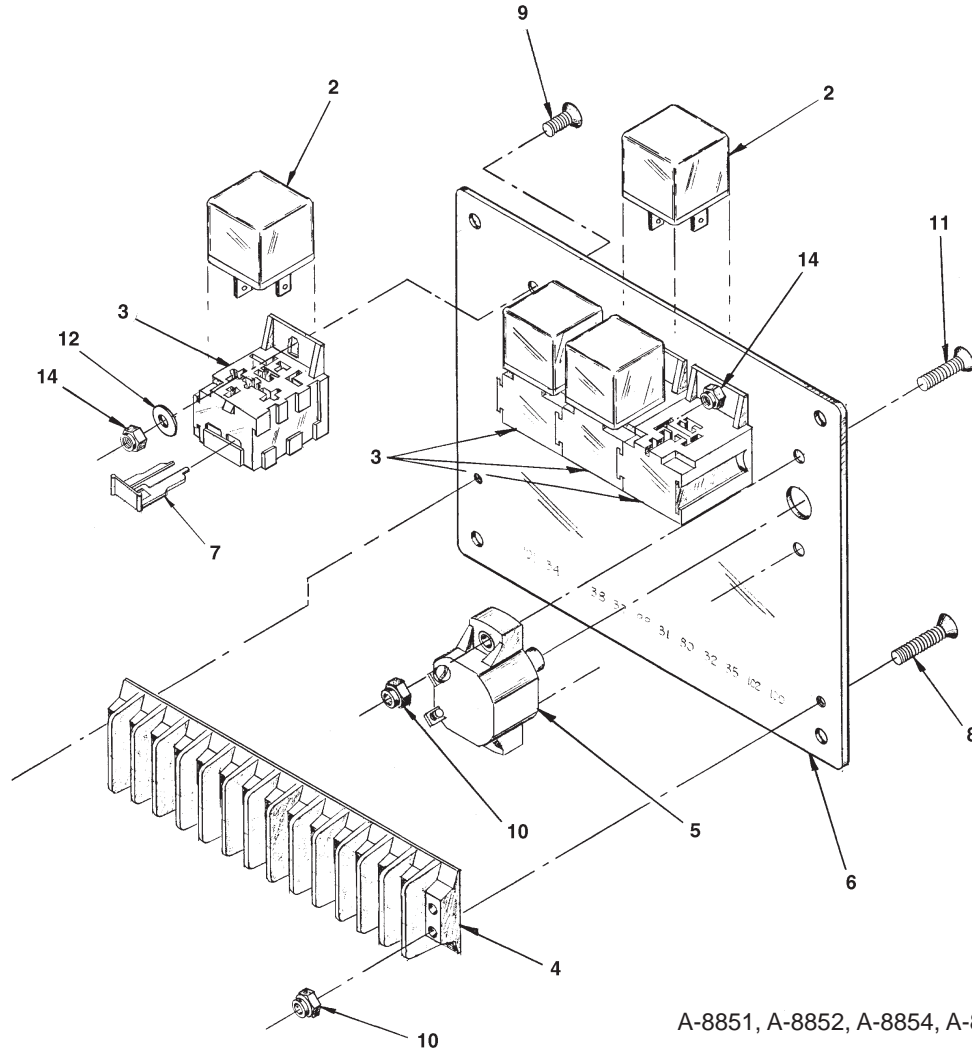
Propulsion Units



A-8805/ B-3139z

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-49602	1	Wire Harness Assembly with Relay Bases (w/o Relays)	-
1	23-40019	1	Bracket	-
2	22-41070	1	40 Amp Circuit Breaker	-
3	22-40391	2	Relay Base	-
4	22-40393	2	Terminal Retainer	-
5	22-42047	2	12 Volt Start Relay	-
	22-40085	2	24 Volt Start Relay	-
6	12-03010	2	Machine Screw, 10 -32 x 3/8", 100°	-
7	14-00001	4	Hex Nut, 10 -32	-
8	12-03011	2	Countersunk Machine Screw, 10 -32 x 3/4", 100° Flathead	-
9	15-00032	2	Flat Washer #10	-

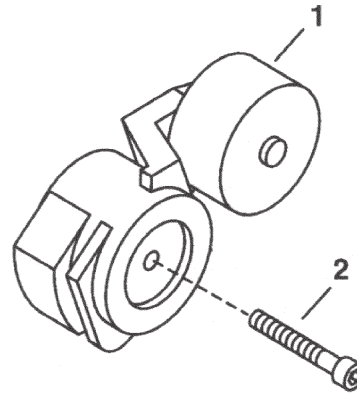
12 & 24 Volt Relay Logic Board



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

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	-
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- Manual Start	-
	28-90018	1	Relay Board Mounting Plate- Autostart	-
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	2	Hex Nut, Nylock, #8 x 32	-
11	12-40225	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	} Not shown
	22-40392	1	Wire Harness, Autostart	
14	14-00000	4	Hex Nut #8- 32	-

Drive Belts

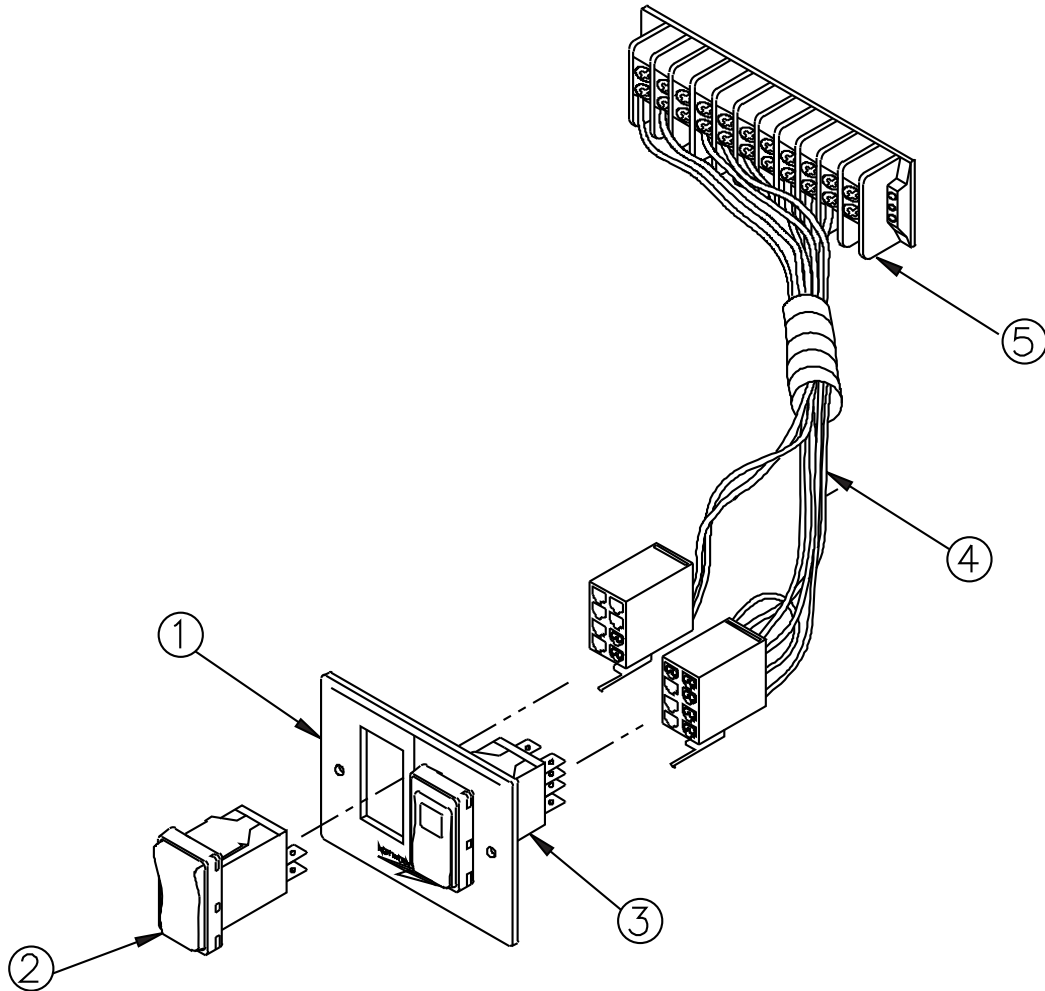


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RGP6132 & 6280

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
			Standard or Optional Medium Frame Size Alternators - 12V/ 55A - 12V/ 90A - 24V/ 35A - 24V/ 40A	
	R123439	1	Drive Belt, LP668D (non-turbo)	-
	R123437	1	Drive Belt, LP-MP668T-H (with turbo)	-
	R123454	1	Drive Belt, NL668T2 (with turbo)	-
			Optional Large Frame Size Alternators - 12V/ 130A - 24V/ 75A	
	R123464	1	Drive Belt, LP668D (non-turbo, replaces R123463)	-
	R123457	1	Drive Belt LP-MP668T-H (wth turbo, formerly #R123464)	-
			NOTE: ADE supplies an additional spare belt on units equipped with front power take-off. Contact dealer or factory for belts on custom engineered accessories (unit serial number required).	
2	19M8131	1	Screw	-
1	RE518097	1	Belt Tensioner Assembly (replaces RE70536)*	-
			*Belt Guard on earlier models may require modification to clear late model tensioner.	

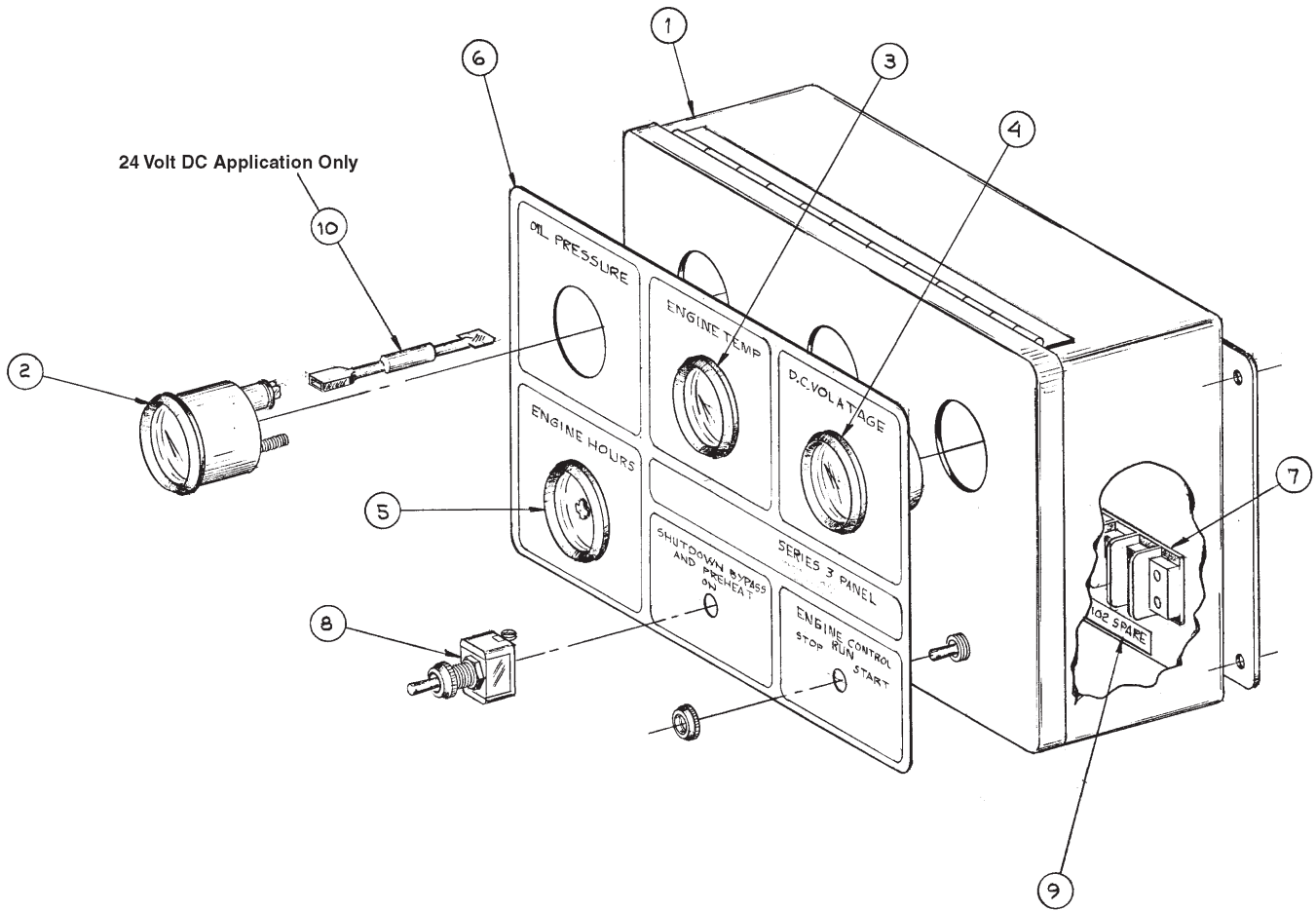
S-1 Control Panel 12 & 24 Volt



A-8555-6/ B-5970

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-90610	1	S-1 Control Panel Assembly, 12 Volt (includes all keys)	-
••	22-90615	1	S-1 Control Panel Assembly, 24 Volt (includes all keys)	-
1	00-40013	1	Plate, S-1 Control Panel	-
2	22-90167	1	Rocker Switch	-
3	22-90168	1	Rocker Switch	-
4	22-40388	1	Wire Harness, 12 Volt	-
	22-40389	1	Wire Harness, 24 Volt	-
5	22-41077	1	Terminal Strip	-
6	22-40012	1	Resistor, 24 Volt	-
7	00-00013	1	Label "12 Volt" *	-
	00-00014	1	Label "24 Volt" *	-
8	22-00052	1	Number Strip, Flush Panel *	-
			*Not shown	

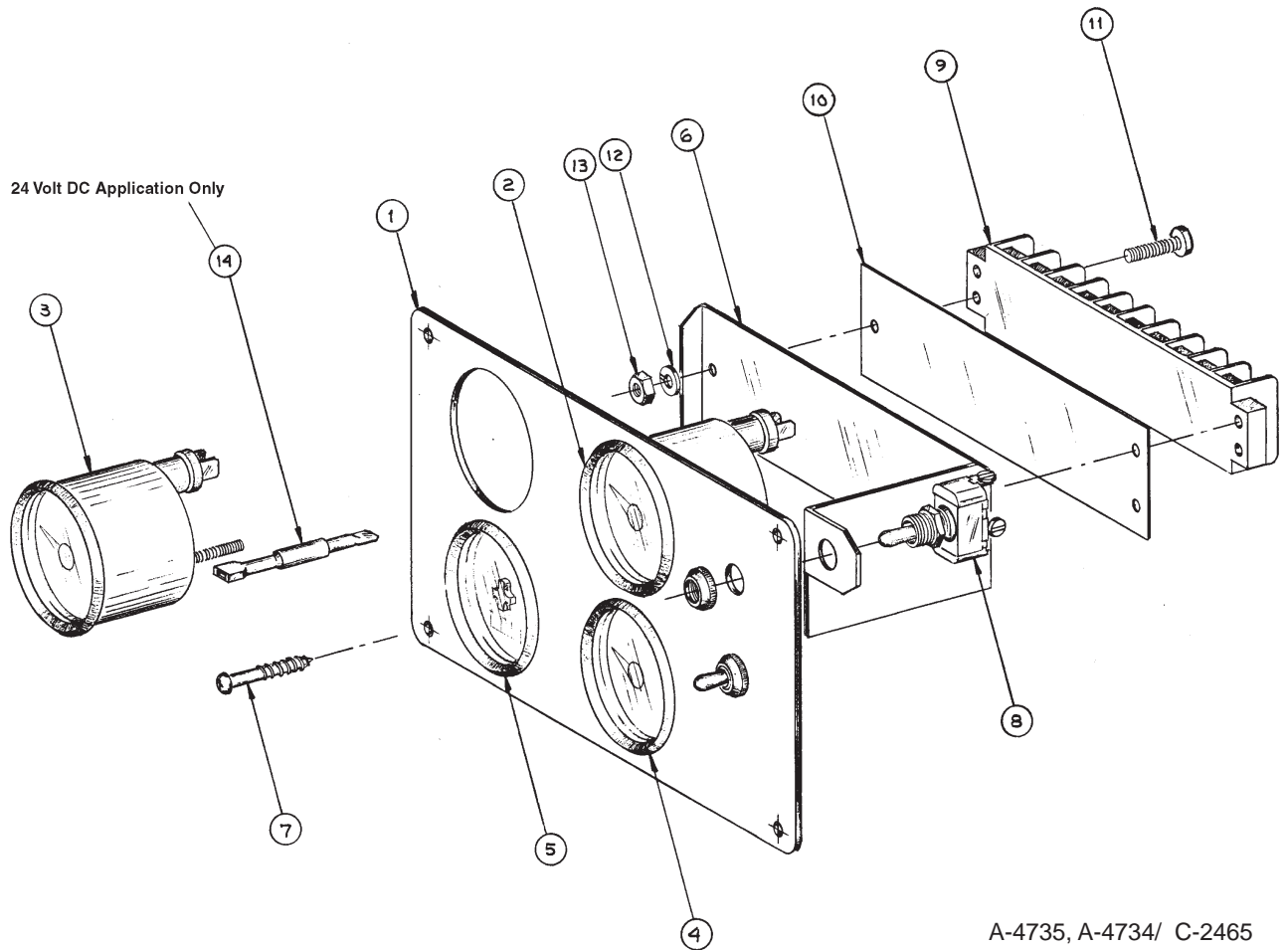
S-3B Control Panel 12 & 24 Volt



A-4722/ C-2470

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-91065	1	S-3B Control Panel Assembly, 12 Volt (includes all keys)	-
••	22-91066	1	S-3B Control Panel Assembly, 24 Volt (includes all keys)	-
1	39-40008	1	Enclosure	-
2	37-40010	1	Oil Pressure Gauge	-
3	37-40011	1	Engine Temperature Gauge	-
4	37-40012	1	DC Volt Meter, 12 Volt	-
	37-40014	1	DC Volt Meter, 24 Volt	-
5	37-40013	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	22-40004	2	Resistor Kit (24 Volt Panel only)	-
11	22-44852	**	Bulb, 12 Volt *	-
	22-44853	**	Bulb, 24 Volt *	-
12	22-40257	1	Wire Harness *	-
			*Not shown	**As required

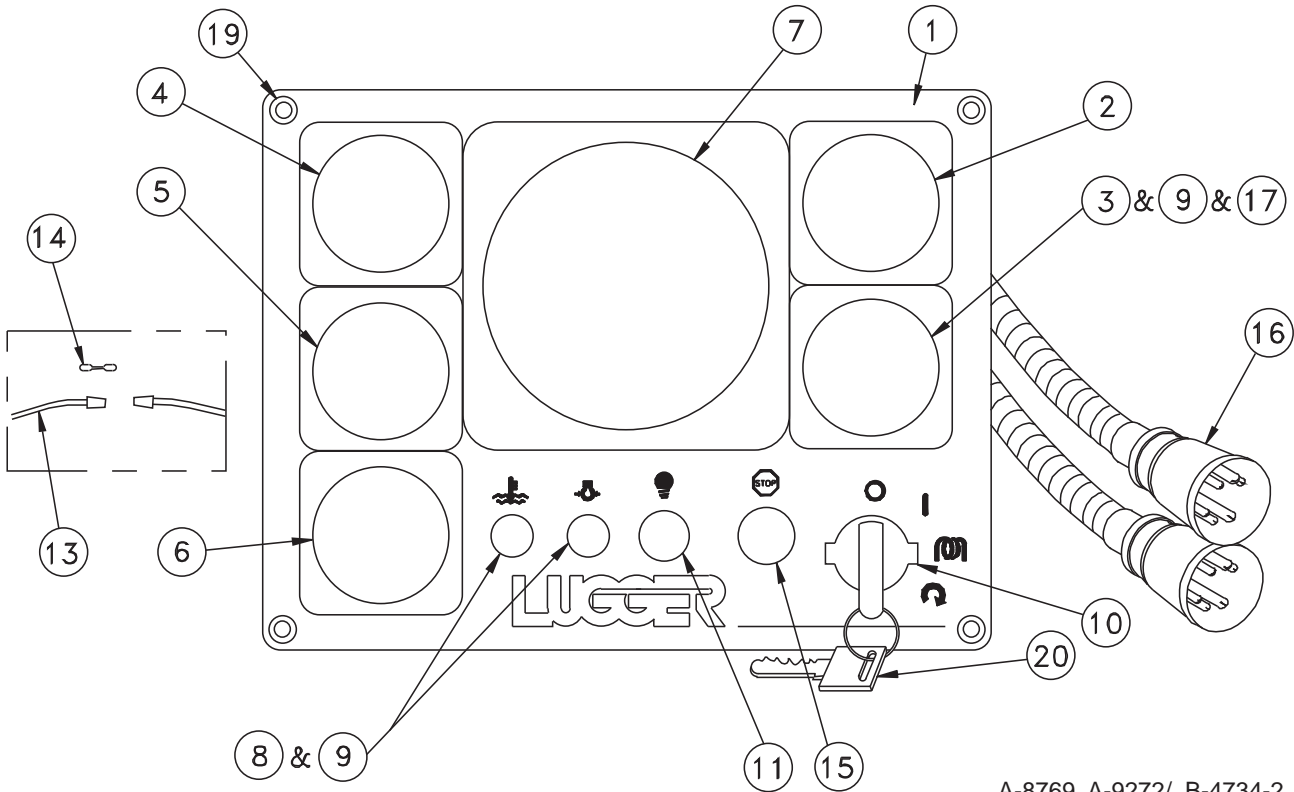
S-3C Control Panel 12 & 24 Volt



A-4735, A-4734/ C-2465

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-91070	1	S-3C Control Panel Assembly, 12 Volt (includes all keys)	-
••	22-91071	1	S-3C Control Panel Assembly, 24 Volt (includes all keys)	-
1	28-90010	1	Plate	-
2	37-40010	1	Oil Pressure Gauge, 0-80 PSI	-
3	37-40011	1	Engine Temperature Gauge, 250°	-
4	37-40012	1	DC Volt Meter, 12 Volt	-
	37-40014	1	DC Volt Meter, 24 Volt	-
5	37-40013	1	Hour Meter	-
6	23-91019	1	Bracket	-
7	12-90001	4	Screw, Philips Round Head #6 x 1" Black	-
8	22-41051	2	Switch	-
9	22-41077	1	Terminal Board	-
10	22-00052	1	Number Strip	-
11	12-00005	2	Machine Screw, #8-32 x 3/4"	-
12	15-00000	2	Lock Washer, Helical #8	-
13	14-00000	2	Hex Nut, Steel #8-32	-
14	22-40004	2	Resistor Kit (24 Volt Panel only)	-
15	22-44852	**	Bulb, 12 Volt*	-
	22-44853	**	Bulb, 24 Volt*	-
			*Not shown	**As required

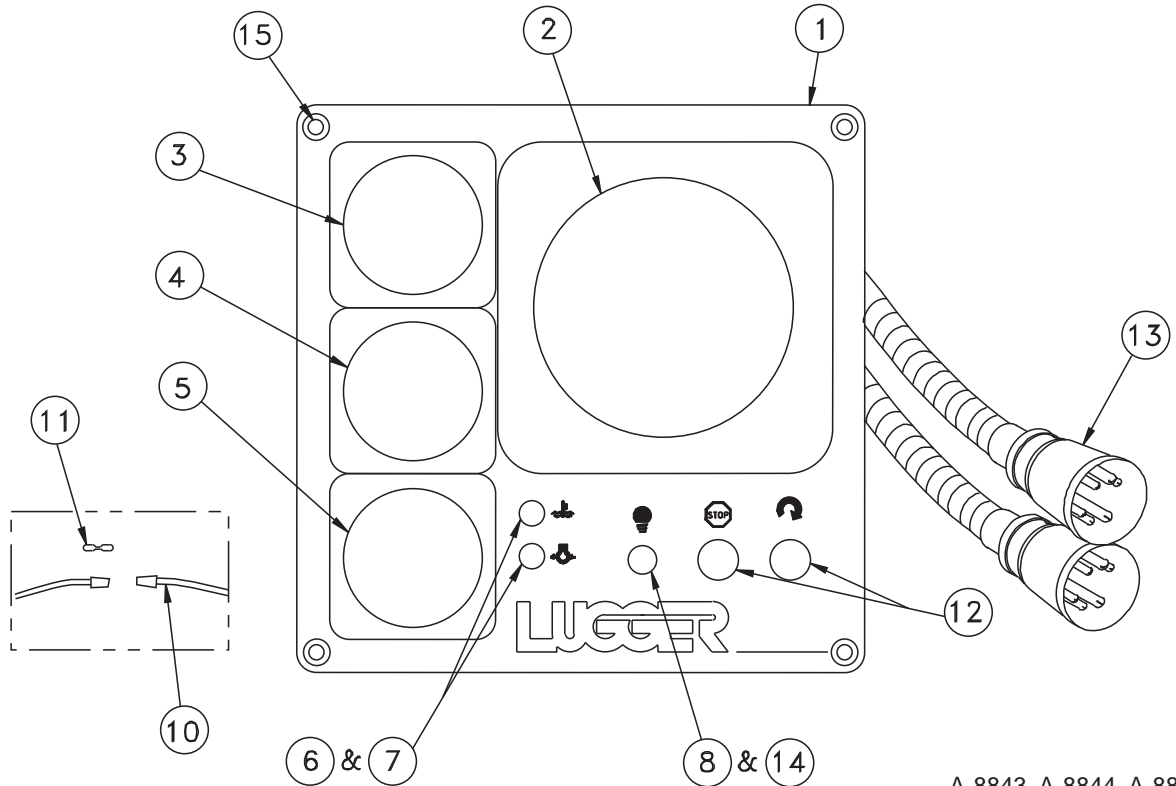
Main Instrument Panel 12 & 24 Volt LP668



A-8769, A-9272/ B-4734-2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99600	1	Main Instrument Panel, 12 Volt (includes all keys)	-
••	22-99615	1	Main Instrument Panel, 24 Volt (includes all keys)	-
1	37-96801	1	Panel Plate	-
2	37-90022	1	Voltmeter, 12 Volt	-
	37-90023	1	Voltmeter, 24 Volt	-
3	37-90024	1	Hourmeter	-
4	37-90025	1	Temperature Gauge, 12 Volt	-
	37-90026	1	Temperature Gauge, 24 Volt	-
5	37-90033	1	Oil Pressure Gauge, 0-80 PSI, 12 Volt	-
	37-90034	1	Oil Pressure Gauge, 0-80 PSI, 24 Volt	-
6	22-40263	1	Alarm Horn 12/24 Volt	-
7	37-99601	1	Tachometer, 0-3000 RPM, 24 Volt	-
	37-99602	1	Tachometer, 0-3000 RPM, 12 Volt	-
8	22-44851	2	Fault Lamp Holder, Amber	-
9	22-44852	**	Bulb, Clear 12 Volt	-
	22-44853	**	Bulb, Clear 24 Volt	-
10	37-94803	1	Key Switch	-
11	22-40247	1	Toggle Switch (for panel lights)	-
12	22-41060	2	Diode	-
13	22-00044	1	Fuse Holder	-
14	22-41008	1	Fuse, 7-1/2 Amp	-
15	37-91007	1	Push Button	-
16	22-44859	2	Wire Harness	-
17	22-44861	1	Red Diffuser (for hourmeter)	-
19	12-90002	4	Screw, Self Tapping #8	-
20	37-96805	1	Key, Double Sided	-
			**As required	

Flybridge Panel 12 & 24 Volt

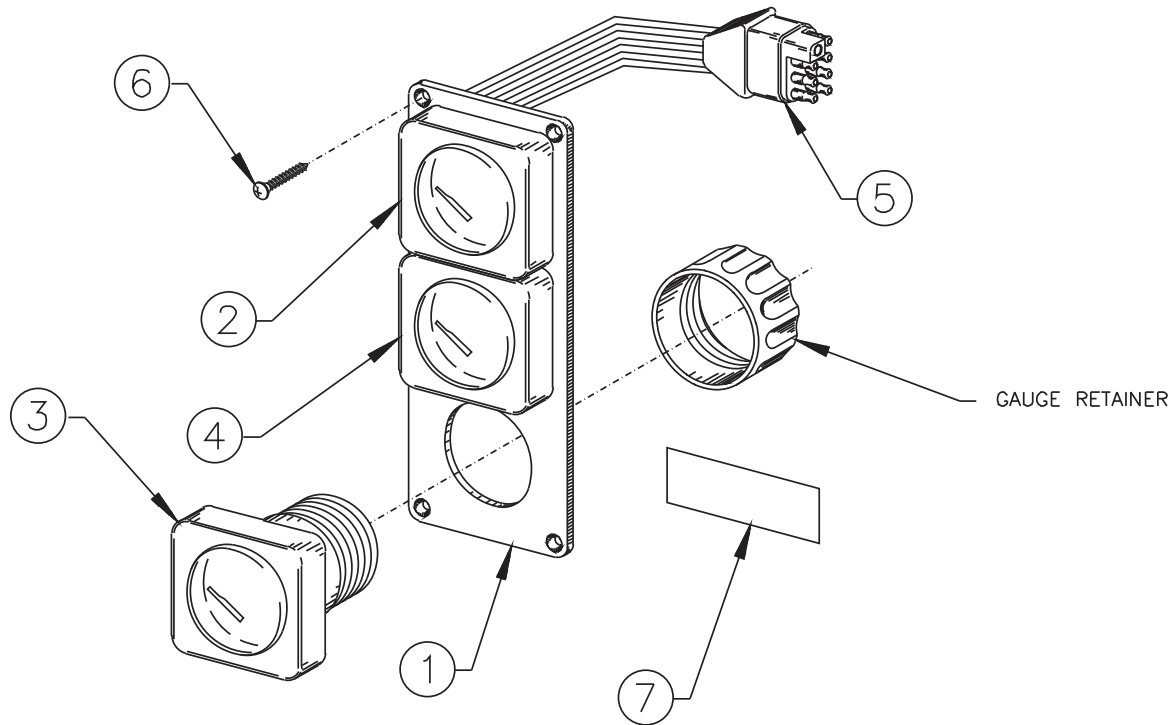


A-8843, A-8844, A-8887,
A-8888/ B-4734-3

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99605	1	Flybridge Panel Kit, 12 Volt (includes all keys)	-
••	22-99610	1	Flybridge Panel Kit, 24 Volt (includes all keys)	-
•	22-99604	1	Flybridge Panel Kit, 12 Volt (includes all keys)	-
•	22-99609	1	Flybridge Panel Kit, 24 Volt (includes all keys)	-
1	28-96802	1	Panel Plate	-
2	37-99601	1	Tachometer 0-3000 RPM, 12 Volt	-
	37-99602	1	Tachometer 0-3000 RPM, 24 Volt	-
3	37-90033	1	Oil Pressure Gauge, 0-80 PSI, 12 Volt	-
	37-90034	1	Oil Pressure Gauge, 0-80 PSI, 24 Volt	-
4	37-90025	1	Temperature Gauge, 12 Volt	-
	37-90026	1	Temperature Gauge, 24 Volt	-
5	22-40263	1	Alarm Horn - 12/24 Volt	-
6	22-44851	2	Fault Lamp Holder, Amber	-
7	22-44852	**	Bulb, Clear - 12 Volt	-
	22-44853	**	Bulb, Clear - 24 Volt	-
8	22-40247	1	Toggle Switch (for panel lights)	-
9	22-41060	2	6 Amp 50 Volt Diode	-
10	22-00044	1	In-Line Fuse Holder	-
11	22-41008	1	7.5 Amp Fuse	-
12	37-91007	2	Push Button Weatherproof	-
13	22-90003	2	Wire Harness	-
14	22-40361	1	Toggle Switch Boot	-
15	12-90002	4	Self Tapping Screw #8 x 1, Type AB Philips	-
16	22-41001	1	Extension Harness 10 ft. (not shown)	-
17	22-71009	1	Double Plug "Y" Harness (not shown)	-
			**As required	

Auxiliary Instrument Panel 12 & 24 Volt

Turbocharged Propulsion Applications

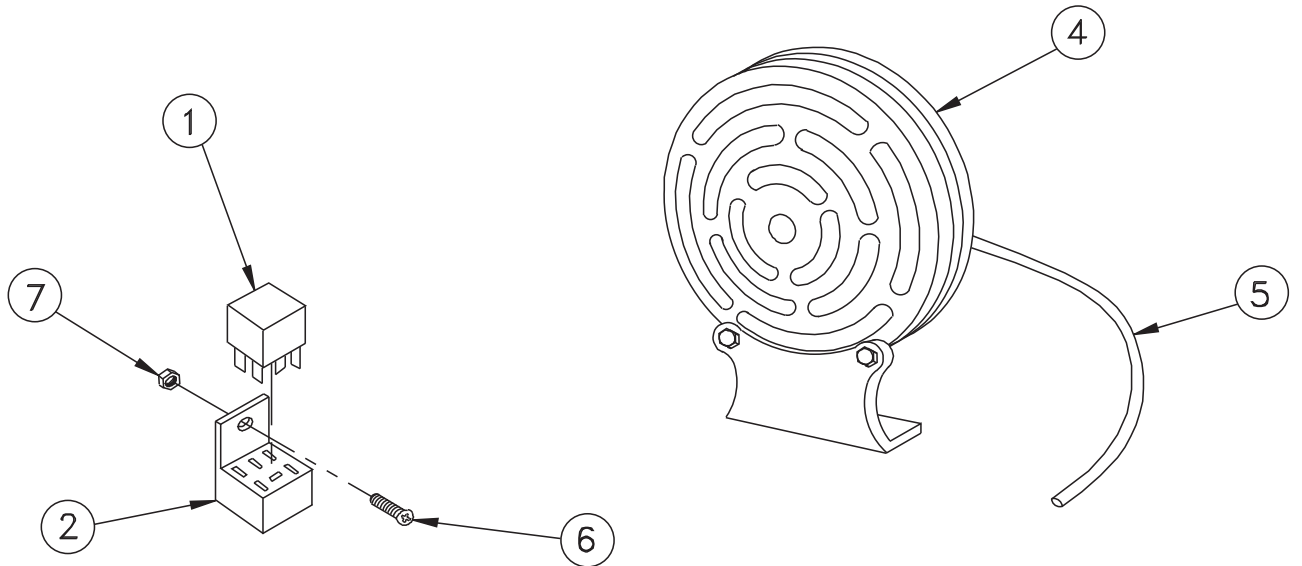


A-8845, A-8846, A-8865,
A-8866/ B-4766

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-90640	1	12 Volt Auxiliary Panel Kit (includes all keys)	-
••	22-90645	1	24 Volt Auxiliary Panel Kit (includes all keys)	-
•	22-90639	1	12 Volt Auxiliary Panel (includes keys #1 - #7)	-
•	22-90644	1	24 Volt Auxiliary Panel (includes keys #1 - #7)	-
1	28-74801	1	Panel Plate	-
2	37-90029	1	Pyrometer Assembly (includes thermocouple & harness)	-
	37-90030	1	Pyrometer (gauge only)	-
	21-34802	1	Pyrometer Probe Connector (not shown)	-
3	37-90035	1	Oil Pressure Gauge, 0-400 PSI, 12 Volt	-
	37-90036	1	Oil Pressure Gauge, 0-400 PSI, 24 Volt	-
4	37-90063	1	Pressure Gauge, 0-28 PSI, 12 Volt	-
	37-90064	1	Pressure Gauge, 0-28 PSI, 24 Volt	-
5	22-44865	1	Wire Harness	-
6	12-90002	4	Self Taping Screw #8 x 1 Type AB Phillips	-
7	22-44852	**	Bulb, Clear - 12 Volt	-
	22-44853	**	Bulb, Clear - 24 Volt	-
	37-41004	**	Bulb, Clear - 12 Volt	-
	37-41003	**	Bulb, Clear - 24 Volt	-
8	22-41094	1	Pressure Sender 0-30 PSI (not shown)	-
9	22-40239	1	Pressure Sender 400 PSI (not shown)	-
10	21-00139	1	Adapter 1/8 BSPT x 1/8 NPT (not shown)	-
11	22-94803	1	Extension Harness 3 Ft. (not shown)	-
12	21-34802	1	Connector (for Thermocouple - included in 37-90029, not shown)	-
			**As required	

Remote 12 & 24 Volt Loud Alarm

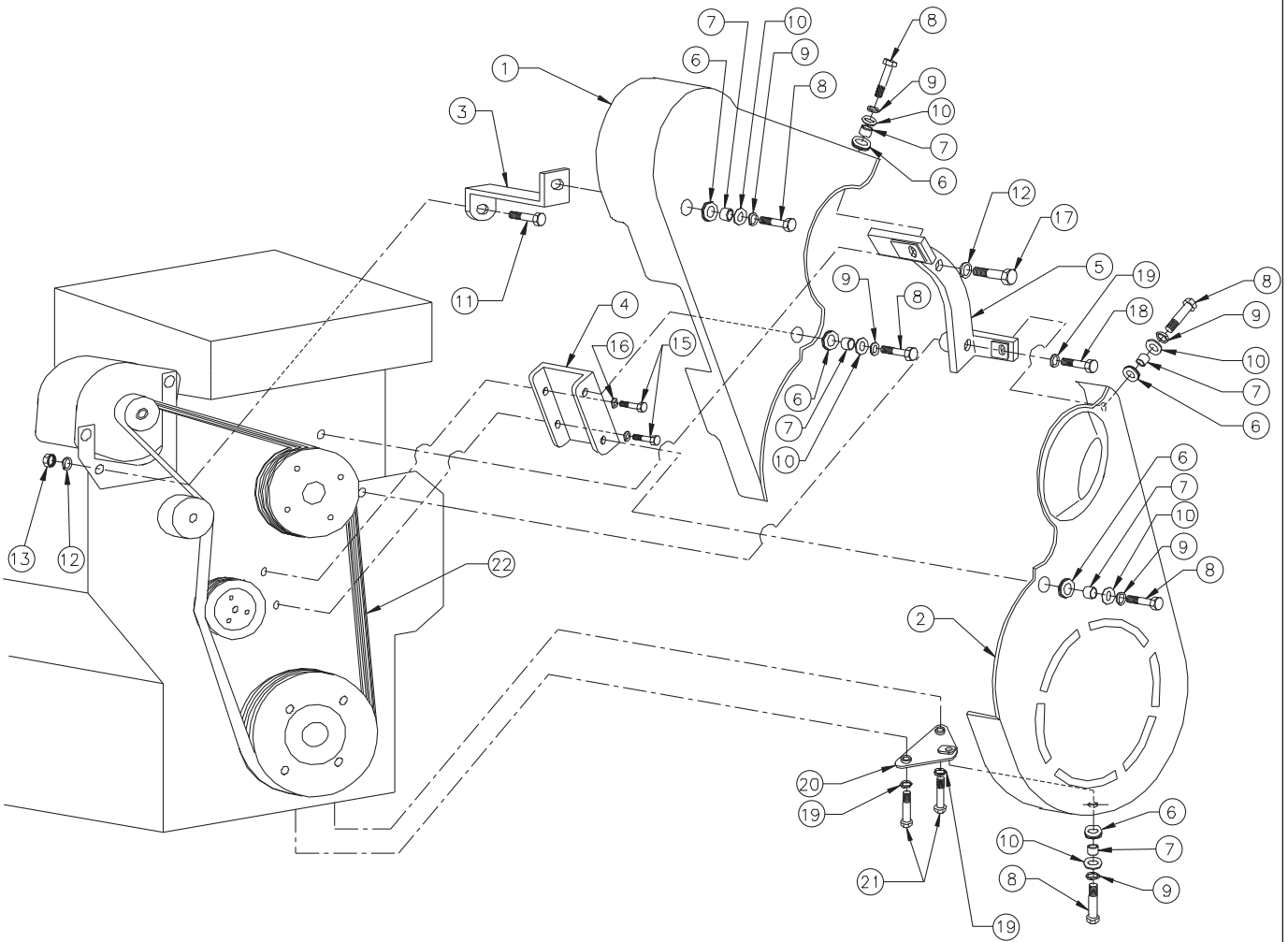
Propulsion Application



A-4186A/ Ptalarm

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-42047	1	12 Volt Relay SPST	-
	22-40085	1	24 Volt Relay SPST	-
2	22-41032	1	Relay Base	-
3	22-41060	2	6 Amp Diode	-
4	22-41007	1	Alarm Horn, 12 Volt	-
	22-40933	1	Alarm Horn, 24 Volt	-
5	22-74814	1	Wire Harness Assembly	-
6	12-03010	1	Machine Screw #10 - 32 x 3/8 100 F.H. CSK	-
7	14-00001	1	Hex Nut, #10 - 32	-

Belt Guard, Medium Frame Alternators w/o PTO

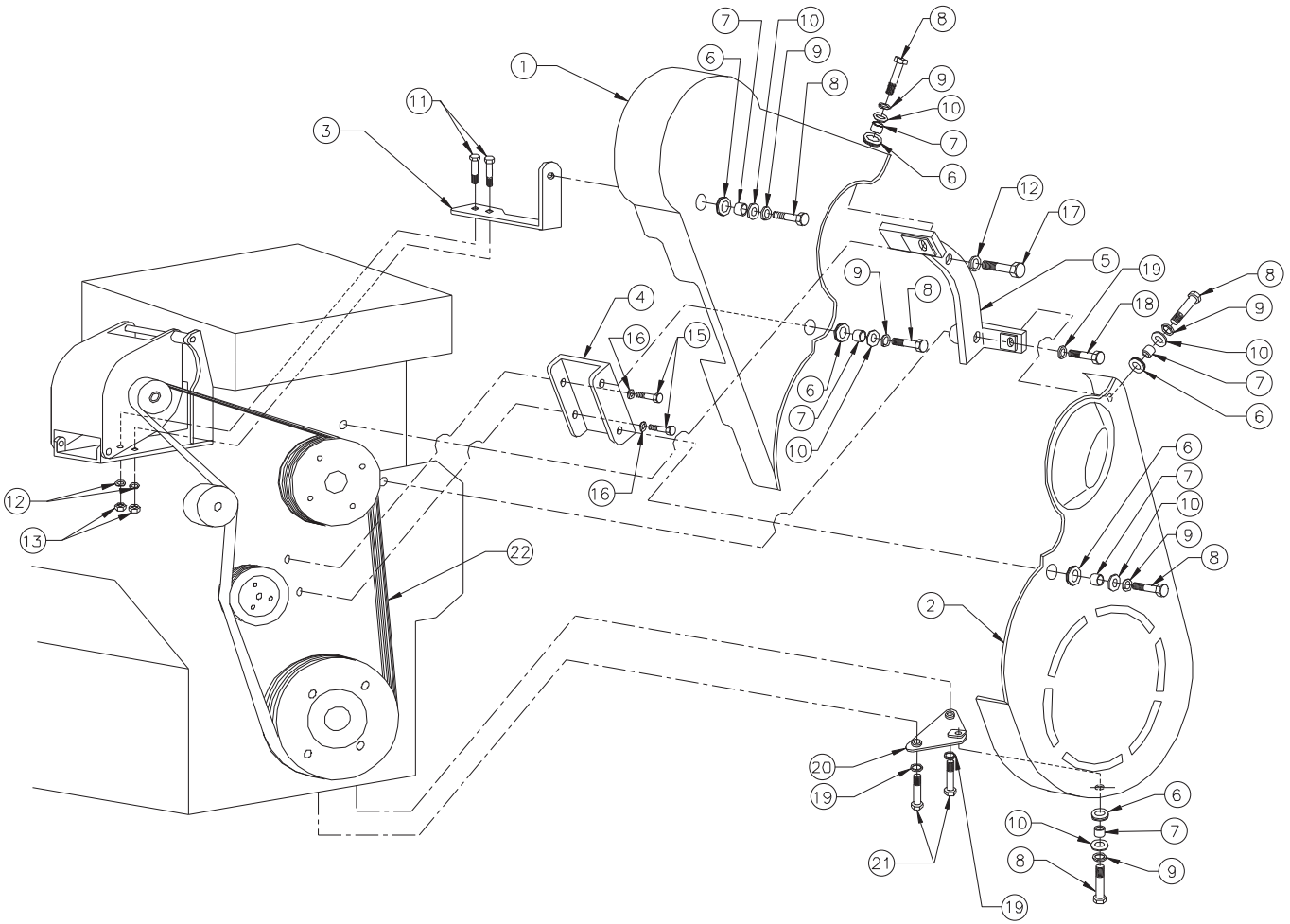


A-8536/ C-5053

Belt Guard, Medium Frame Alternators w/o PTO

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-09501	1	Belt Guard, Upper 1/2	-
2	00-09602	1	Belt Guard, Lower 1/2	-
3	23-09502	1	Bracket	-
4	23-09503	1	Bracket	-
5	23-09507	1	Bracket	-
6	00-00017	6	Grommet	-
7	21-05002	6	Spacer	-
8	12-09712	6	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-00805	6	Flat Washer M10	-
10	15-70004	6	Snubbing Washer S/S	-
11	12-00832	1	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
12	15-00802	2	Lock Washer, Helical M10	-
13	14-00811	1	Hex Nut M10 x 1.5	-
15	12-00072	2	Capscrew, Socket Head M6 x 1.0 x 30 mm	-
16	15-00018	2	Lock Washer	-
17	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
18	12-00717	1	Capscrew, Hex Head M8 x 1.25 x 60 mm	-
19	15-00702	2	Lock Washer	-
20	23-09506	1	Bracket	-
21	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40 mm	-
22		1	Drive Belt, Poly-V (see application chart)	-

Belt Guard, Large Frame Alternators w/o PTO



A-8598/ C-5056

Belt Guard, Large Frame Alternators w/o PTO

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-09503	1	Belt Guard, Upper 1/2	-
2	00-09602	1	Belt Guard, Lower 1/2	-
3	23-09508	1	Bracket	-
4	23-09503	1	Bracket	-
5	23-09507	1	Bracket	-
6	00-00017	6	Grommet	-
7	21-05002	6	Spacer	-
8	12-09712	6	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-00705	6	Lock Washer M8 S/S	-
10	15-70004	6	Snubbing Washer S/S	-
11	12-00814	2	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
12	15-00802	3	Lock Washer, Helical M10	-
13	14-00811	2	Hex Nut M10 x 1.5	-
15	12-00072	2	Capscrew, Socket Head M6 x 1.0 x 30 mm	-
16	15-00018	2	Lock Washer, Hi-collar 1/4	-
17	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
18	12-00717	1	Capscrew, Hex Head M8 x 1.25 x 60 mm	-
19	15-00702	3	Lock Washer, Helical M8	-
20	23-09506	1	Bracket	-
21	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40 mm	-
22		1	Drive Belt, Poly-V (see application chart)	-

GROUP 6 - GASKET SETS

Gasket Set, Engine Overhaul

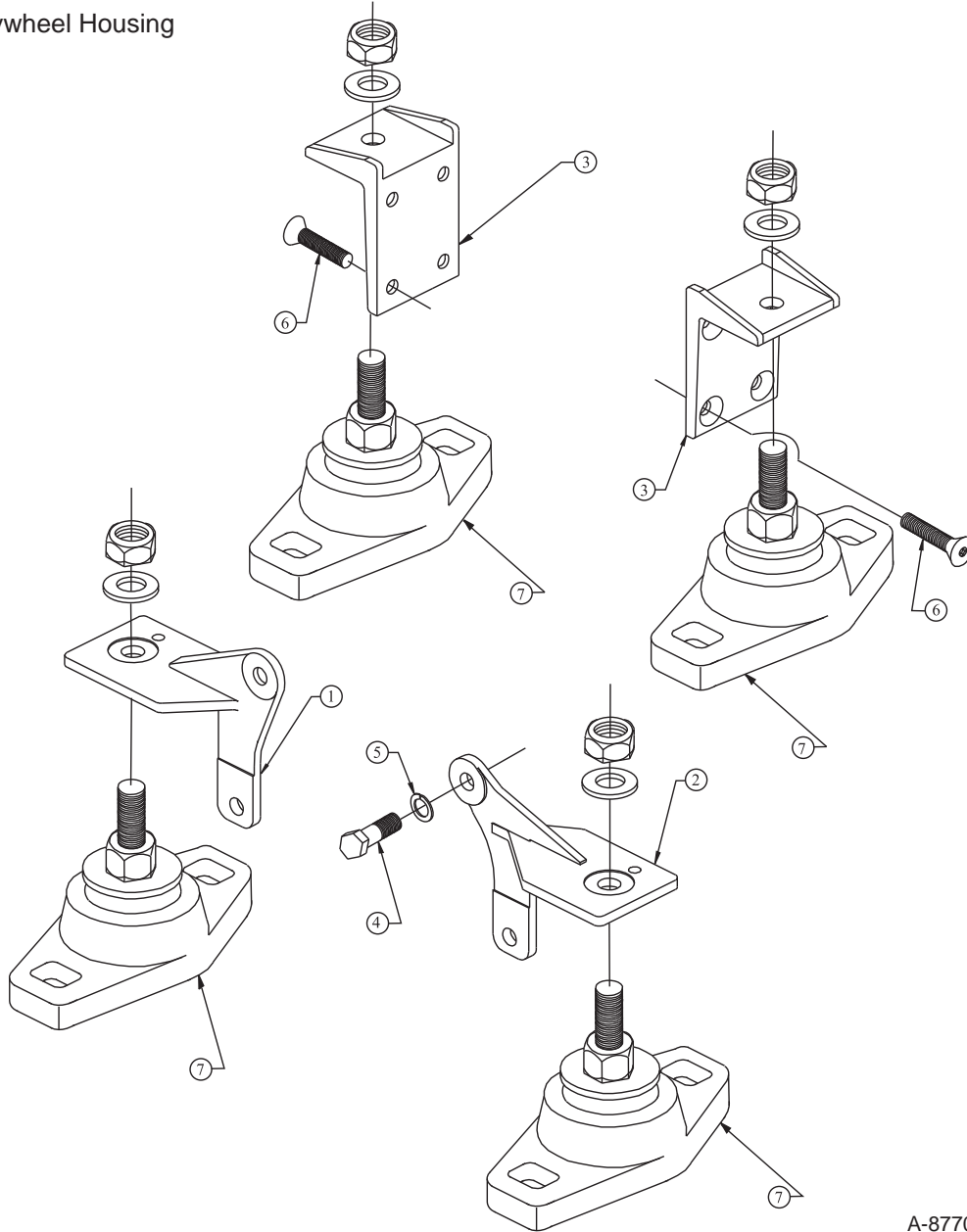
KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
			LP - MP668	
••	29-09600	1	Gasket Set (includes all keys)	-
1	R123543	1	Gasket, Rocker Arm Cover	-
2	R90658	6	Gasket, Exhaust Manifold	-
3	R135896	1	Gasket, Thermostat Cover	-
4	R123226	2	Gasket, Water By-pass Tube	-
5	R123345	1	Gasket, Thermostat Housing	-
6	R123570	1	Gasket, Turbocharger Oil Outlet Tube	-
7	R123575	4	Gasket, Rocker Arm Cover Hold Down Stud	-
8	R116516	1	Gasket, Cylinder Head	-
9	R501373	1	Gasket, Thermostat Cover	-
10	R81275	1	Gasket, Air Inlet	-
11	R123572	1	Gasket, Turbocharger Mounting	-
12	R123354	1	Gasket, Engine Oil Pan	-
13	R501428	1	Gasket, Coolant Passage Adapter	-
14	R75892	1	O-ring, Oil Pump Tube Connector	-
15	R97185	1	O-ring, Oil Pump Outlet Tube to Cover	-
16	R61871	1	O-ring, Oil Pump Intake Tube	-
17	A4827R	1	Washer, Oil Pressure Regulator Plug	-
18	RE44574	1	Seal, Rear Oil	-
19	RE59810	1	Front Oil Seal Kit	-
20	R123273	1	O-ring, Fuel Transfer Pump	-
21	R123417	1	Gasket, Water Pump	-
22	R136516	1	Gasket, Timing Gear Cover	-
	R136515	1	Gasket, Timing Gear Cover, for Auxiliary Drive	-
23	R123501	1	Gasket, Oil Cooler Housing	-
24	R123504	1	Gasket, Remote Oil Filter Adapter	-
25	R123525	1	Gasket, Oil Filter Header	up to - 766852
26	R53108	1	Gasket, Starting Motor	-
27	R72328	4	O-ring, Remote Oil Filter Tubes	-
28	R89944	1	O-ring, Water Pump Inlet	-
29	R61105	2	O-ring, Connector Tube to Timing Gear Cover	-
30	T122075	2	O-ring, Oil Cooler to Housing	-
31	R136495	2	Gasket, Oil Fill Cover	-
32	R500374	1	Gasket, Oil Filter Header	from 766853 -
33	16-15005	6	O-ring	-
34	16-01000	2	O-ring	-
35	16-31000	1	O-ring	-
36	052300400	1	O-ring	-
37	11-31011	6	Gasket, Exhaust	-
38	11-30013	1	Gasket, Exhaust Flange	-
39	11-31401	1	Gasket, K26 Turbo Mounting	-
40	11-21011	2	Gasket, Intake Port	-
41	11-31031	1	Gasket, Turbo Oil Return	-
42	11-31012	1	Gasket	-
43	11-11022	1	Gasket, Filler Neck Mounting	-
44	11-11023	1	Gasket, Manifold to Expansion Tank	-
45	11-10015	2	Thermostat Seal Ring	-
46	11-11013	1	Gasket, Thermostat Cover Mounting	-
47	11-11043	1	Gasket, Expansion Tank Connection	-
48	16-19502	1	O-ring, 7/16" I.D. x 3/16" Nitrile	-

Gasket Set, Engine Overhaul

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
49	16-14804	1	O-ring, 2" I.D. x 1/8" Nitrile	-
50	16-19503	1	O-ring, 4-1/4" I.D. x 3/32" Nitrile	-
51	16-19501	2	O-ring, 4-1/2" I.D. x 1/8" Nitrile	-
52	15-09501	2	Sealing Washer, Copper, M22	-
53	11-31615	1	Gasket, Turbo/Exhaust Mounting	-
54	11-31635	1	Gasket, Turbo Exhaust (K27)	-
			NL668T2	
••	RE501456	1	Gasket Set	-
1	R123543	1	Gasket, Rocker Arm Cover	-
2	R90658	6	Gasket, Exhaust Manifold	-
3	R135896	1	Gasket, Thermostat Cover	-
4	R123226	2	Gasket, Water By-pass Tube	-
5	R123345	1	Gasket, Thermostat Housing	-
6	R123570	1	Gasket, Turbocharger Oil Outlet Tube	-
7	R123575	4	Gasket, Rocker Arm Cover Hold Down Stud	-
8	R116516	1	Gasket, Cylinder Head	-
9	R501373	1	Gasket, Thermostat Cover	-
10	R81275	1	Gasket, Air Inlet	-
11	R123572	1	Gasket, Turbocharger Mounting	-
12	R123354	1	Gasket, Engine Oil Pan	-
13	R501428	1	Gasket, Coolant Passage Adapter	-
14	R75892	1	O-ring, Oil Pump Tube Connector	-
15	R97185	1	O-ring, Oil Pump Outlet Tube to Cover	-
16	R61871	1	O-ring, Oil Pump Intake Tube	-
17	A4827R	1	Washer, Oil Pressure Regulator Plug	-
18	RE44574	1	Seal, Rear Oil	-
19	RE59810	1	Front Oil Seal Kit	-
20	R123273	1	O-ring, Fuel Transfer Pump	-
21	R123417	1	Gasket, Water Pump	-
22	R136516	1	Gasket, Timing Gear Cover	-
	R136515	1	Gasket, Timing Gear Cover, for Auxiliary Drive	-
23	R123501	1	Gasket, Oil Cooler Housing	-
24	R123504	1	Gasket, Remote Oil Filter Adapter	-
25	R123525	1	Gasket, Oil Filter Header	up to - 766852
26	R53108	1	Gasket, Starting Motor	-
27	R72328	4	O-ring, Remote Oil Filter Tubes	-
28	R89944	1	O-ring, Water Pump Inlet	-
29	R61105	2	O-ring, Connector Tube to Timing Gear Cover	-
30	T122075	2	O-ring, Oil Cooler to Housing	-
31	R136495	2	Gasket, Oil Fill Cover	-
32	R500374	1	Gasket, Oil Filter Header	from 766853 -

Engine Mounting LP668

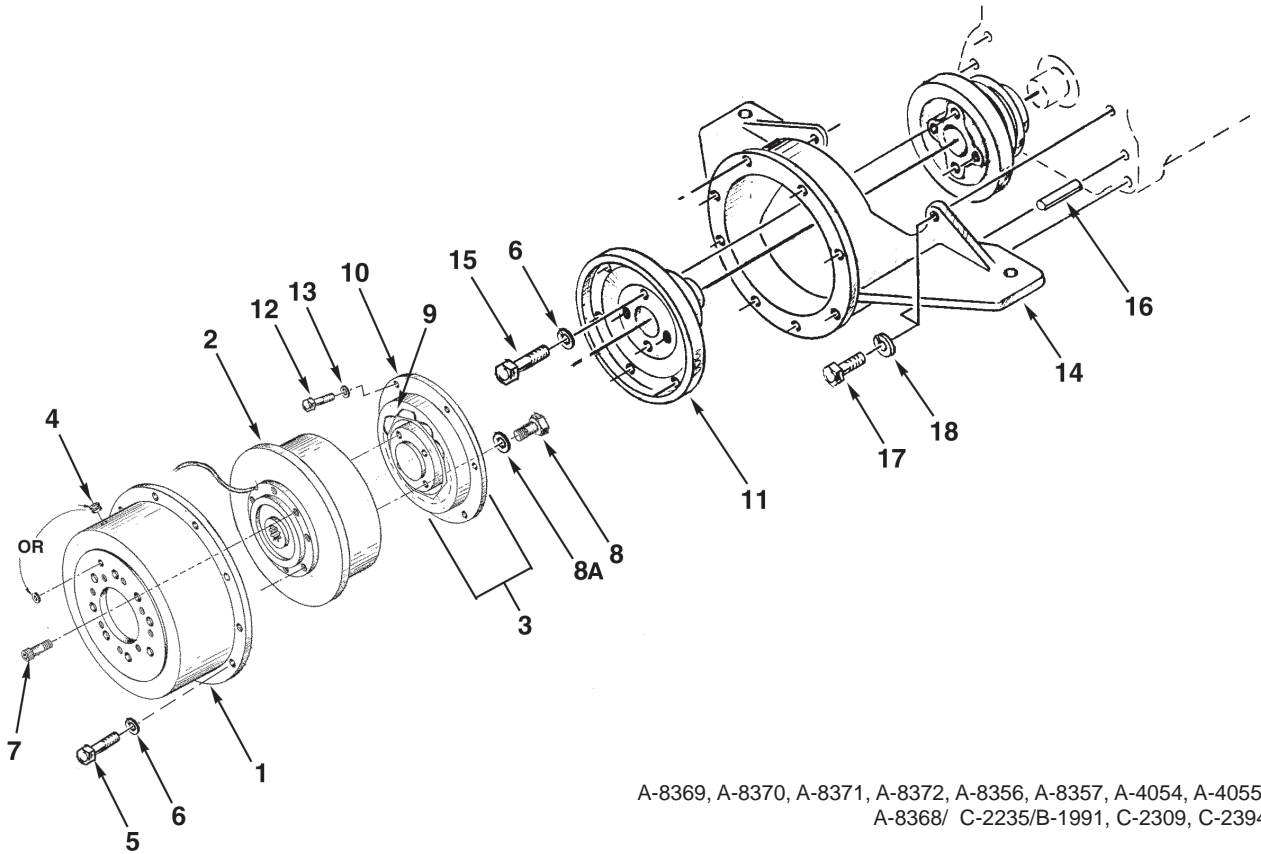
SAE #2 Flywheel Housing



A-8904/ B-1739
A-8770, A-8889/ B-2237A

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-81001	1	Mounting Bracket, Engine R/H front	-
2	23-81002	1	Mounting Bracket, Engine L/H front	-
3	23-89601	2	Mounting Bracket, Rear Engine (Tapped for Jack Screw)	-
	23-89602	2	Mounting Bracket, Rear Engine (Use with Flex Mounts)	-
4	12-04803	4	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
5	15-01000	4	Lock Washer M16	-
6	12-10913	8	Capscrew, Flathead Socket M12 x 1.25 x 30 mm	-
7	33-74801	4	Flexible Mount, 600 lb.	-

Electric Clutch and PTO Assembly LP-MP668 & C Series

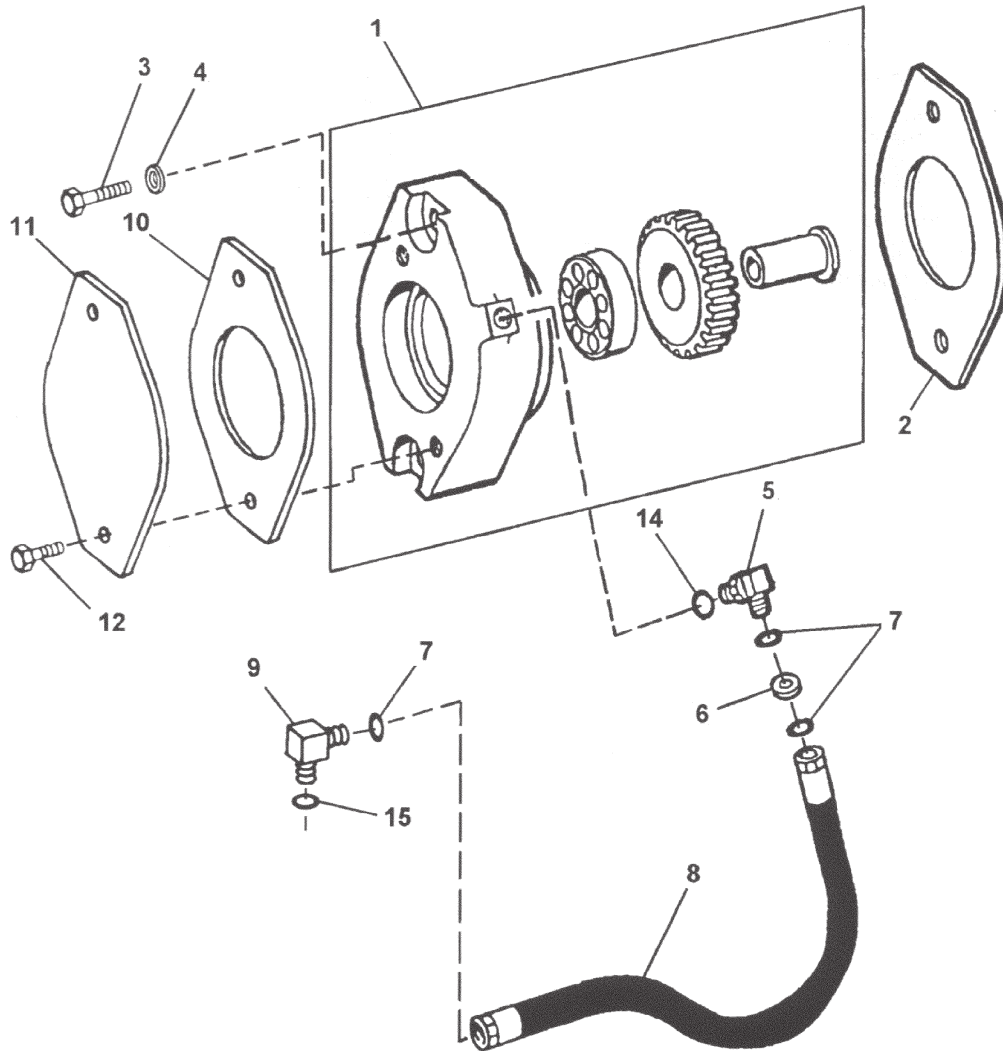


A-8369, A-8370, A-8371, A-8372, A-8356, A-8357, A-4054, A-4055,
A-8368/ C-2235/B-1991, C-2309, C-2394

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-60004	1	Housing, B-Pad	-
	10-60003	1	Housing, C-Pad	-
2	34-60020	1	Electric Clutch, H-36 B-Spline 12 Volt	-
	34-60018	1	Electric Clutch, H-36 C-Spline 12 Volt	-
	34-60028	1	Electric Clutch, H-36 B-Spline 24 Volt	-
	34-60027	1	Electric Clutch, H-36 C-Spline 24 Volt	-
3	34-61455	1	Drive Assembly (includes keys 9 & 10)	-
4	00-61003	1	Grommet	-
5	12-00319	8	Capscrew, Hex Head 3/8-16 x 2 -3/4"	-
6	15-00321	12	Flat Washer, 3/8 SAE	-
7	12-00035	8	Capscrew, Socket Head 3/8 -16 x 3/4"	-
8	12-60001	4	Capscrew, Hex Head 7/16 -20 x 1 -3/4"	-
8a	15-00404	4	Flat Washer SAE 7/16	-
9	00-61001	**	Drive Block (**As required)	-
10	34-60053	1	Drive Ring	-
	34-60054	1	Drive Spider	-
	34-60056	1	Drive Hub	-
11	34-69401	1	PTO Carrier, SAE #8	-
12	12-00312	6	Capscrew, Hex Head, 3/8 -16 x 1"	-
13	15-00301	6	Flat Washer, 3/8	-
14	23-71001	1	Bracket, SAE #5	-
15	12-00314	4	Capscrew, Hex Head 3/8 -16 x 1 -1/2"	-
16	32-81001	2	Dowel Pin, .625 x 1.5"	-
17	12-04803	4	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
18	15-01000	4	Lock Washer, Helical M16	-
19	31-69601	1	Housing Spacer Ring (not shown)	-

Hydraulic Pump Drive Assembly

Oil Supply from Cylinder Block



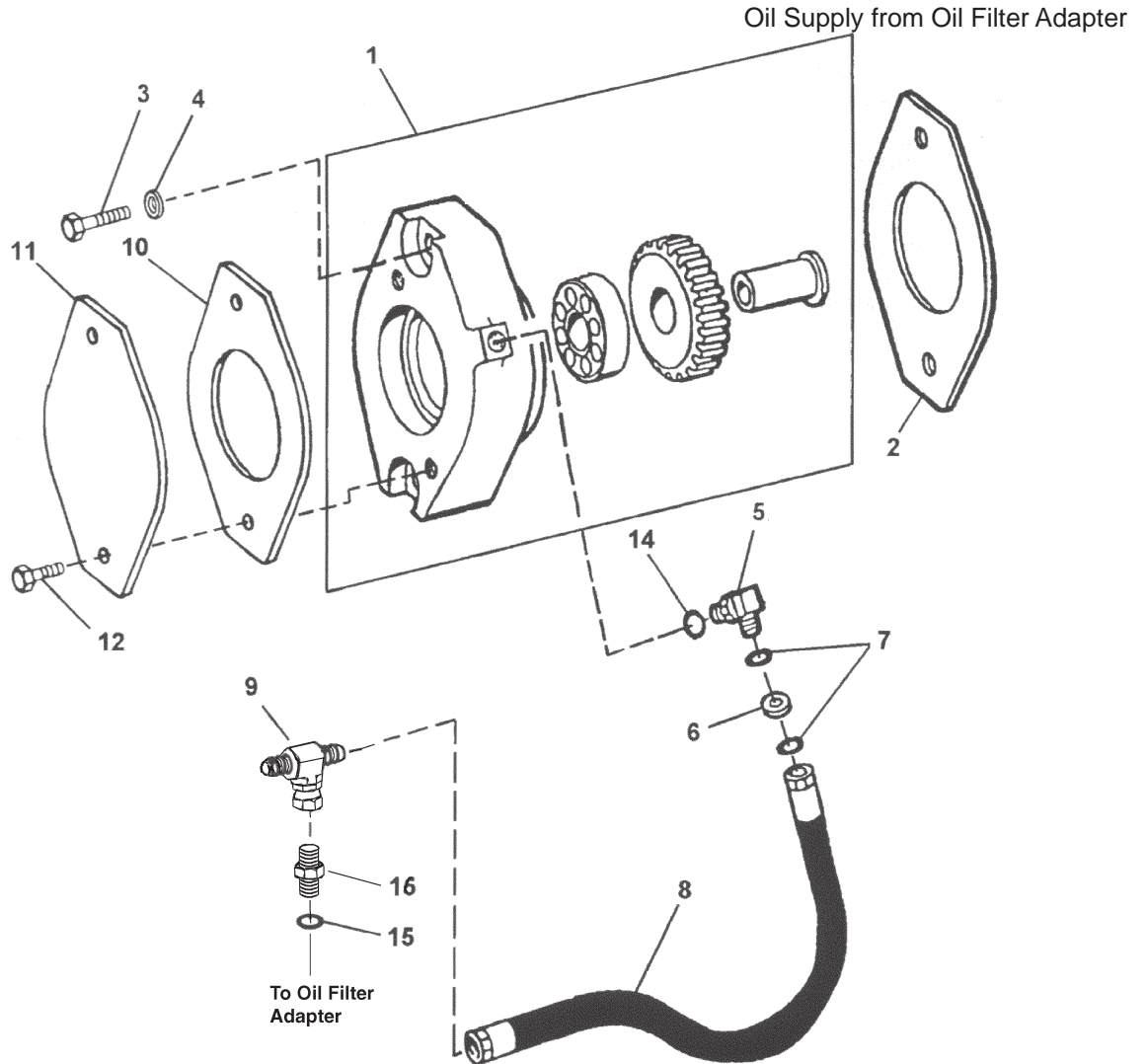
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RGP6232

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500825	1	Auxiliary Drive Assembly SAE A Pad, 9 Tooth Spline	-
2	R134465	1	Gasket	-
3	12-00955	2	Capscrew, Hex Head M12 x 1.75 x 60 mm	-
4	15-00007	2	Flat Washer, M12	-
5	21-69501	1	Male Elbow 90°, M12 x 1.5 x 3/8 O-ring Face Seal (includes keys 7 & 14)	-
6	N275799	1	Restriction Orifice	-
7	16-69501	3	O-ring	-
8	RE60017	1	Hose Assembly, 1/4" I.D. x 18"	-
9	21-69502	1	Male Elbow 90° M16 x 1.5 x 3/8 O-ring Face Seal (includes keys 7 & 15)	-
10	R96935	1	Gasket*	-
11	R85145	1	Plate*	-
12	12-00832	2	Capscrew, Hex Head M10 x 1.5 x 30 mm*	-
13	15-00804	2	Wave Washer, M10*	-
14	51M7040	1	O-ring	-
15	51M7042	1	O-ring	-

*For shipping

Hydraulic Pump Drive Assembly



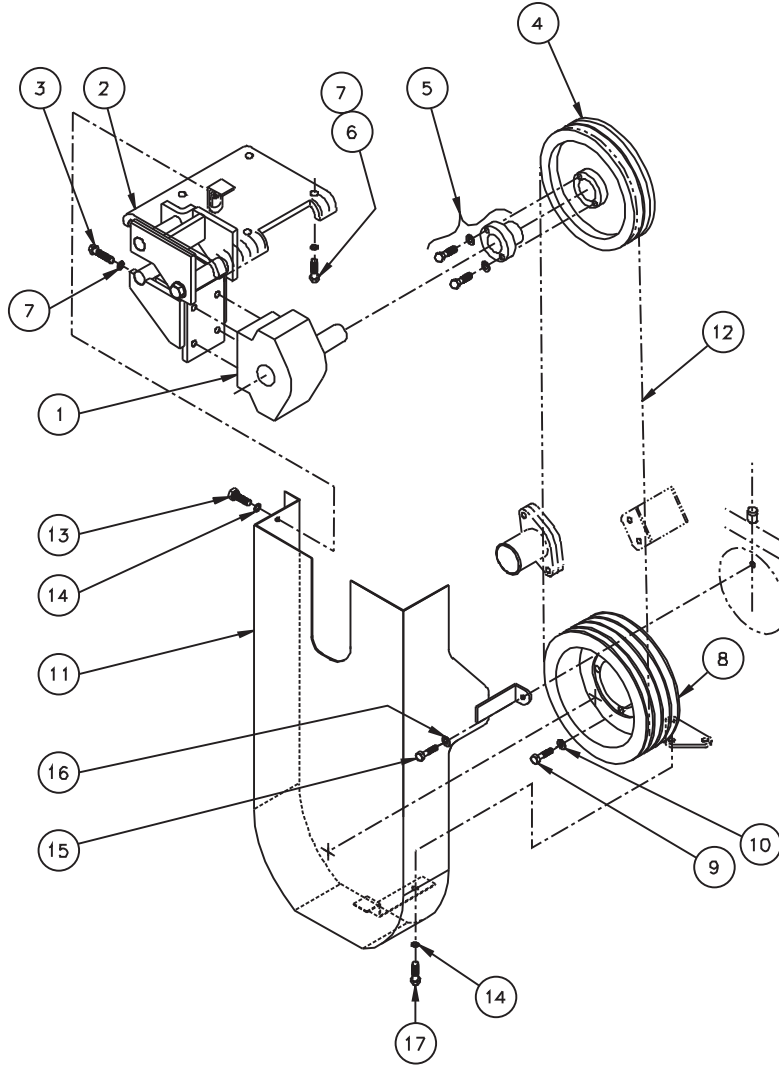
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RGP6232

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500825	1	Auxiliary Drive Assembly SAE A Pad, 9 Tooth Spline	-
2	R134465	1	Gasket	-
3	12-00955	2	Capscrew, Hex Head M12 x 1.75 x 60 mm	-
4	15-00007	2	Flat Washer, M12	-
5	21-69501	1	Male Elbow 90°, M12 x 1.5 x 3/8 O-ring Face Seal (includes keys 7 & 14)	-
6	N275799	1	Restriction Orifice	-
7	16-69501	2	O-ring	-
8	18-69603	1	Hose Assembly, 1/4" I.D. x 34"	-
9	21-09506	1	Female Branch Tee 3/8 -37T	-
10	R96935	1	Gasket*	-
11	R85145	1	Plate*	-
12	12-00832	2	Capscrew, Hex Head M10 x 1.5 x 30 mm*	-
13	15-00804	2	Wave Washer, M10*	-
14	51M7040	1	O-ring	-
15	51M7042	1	O-ring	-
16	21-09502	1	Male Connector, Steel M16 x 1.5 x 3/8- 37T	-

*For shipping

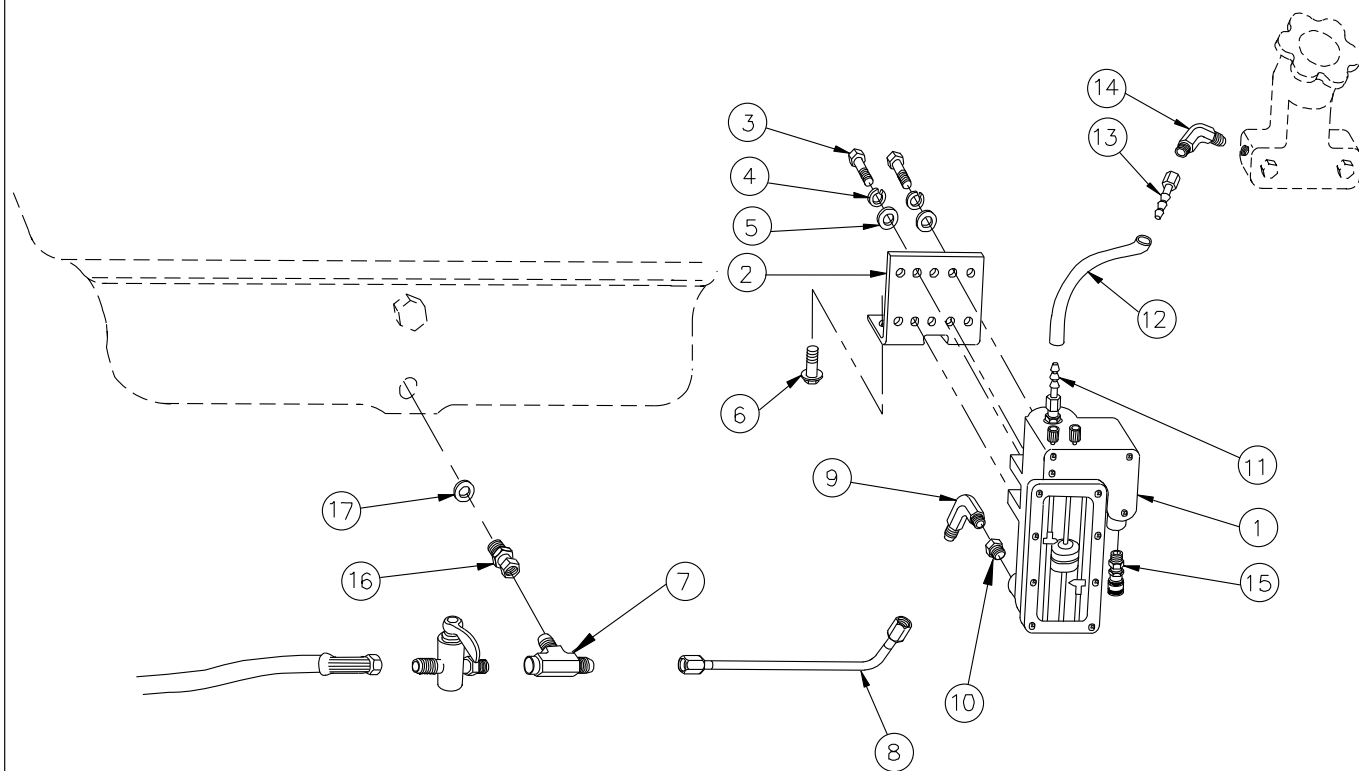
Hydraulic Pump Drive Assembly



A-8916/ C-4435

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	34-60058	1	Hydraulic Pump Drive SAE "A" Pad	-
2	23-69601	1	Bracket, Hydraulic Pump Drive Mounting	-
3	12-00313	4	Capscrew, Hex Head, 3/8-16 x 1-1/4"	-
4	34-61622	1	Pulley, 2-A x 7"	-
5	34-60061	1	Taper Lock Bushing, Type "H" 1-1/4"	-
6	12-00312	4	Capscrew, Hex Head Flanged 3/8-16 x 1"	-
7	15-00302	8	Lock Washer, Helical 3/8	-
8	34-69501	1	Crankshaft Pulley 4-A x 8"	-
9	12-00318	4	Capscrew, Hex Head 3/8-16 x 2-1/2"	-
10	15-00321	4	Flat Washer 3/8" SAE	-
11	00-69601	1	Belt Guard, (see also application with Left Side Alternator)	-
12	40-01602	2	Drive Belt	-
13	12-00751	1	Capscrew, Hex Head M8 x 1.25 x 16 mm	-
14	15-00701	2	Flat Washer, M8	-
15	12-01131	1	Capscrew, Hex Head M6 x 1.0 x 20 mm	-
16	15-00008	1	Flat Washer M6	-
17	12-00708	1	Capscrew, Hex Head M8 x 1.25 x 45 mm	-

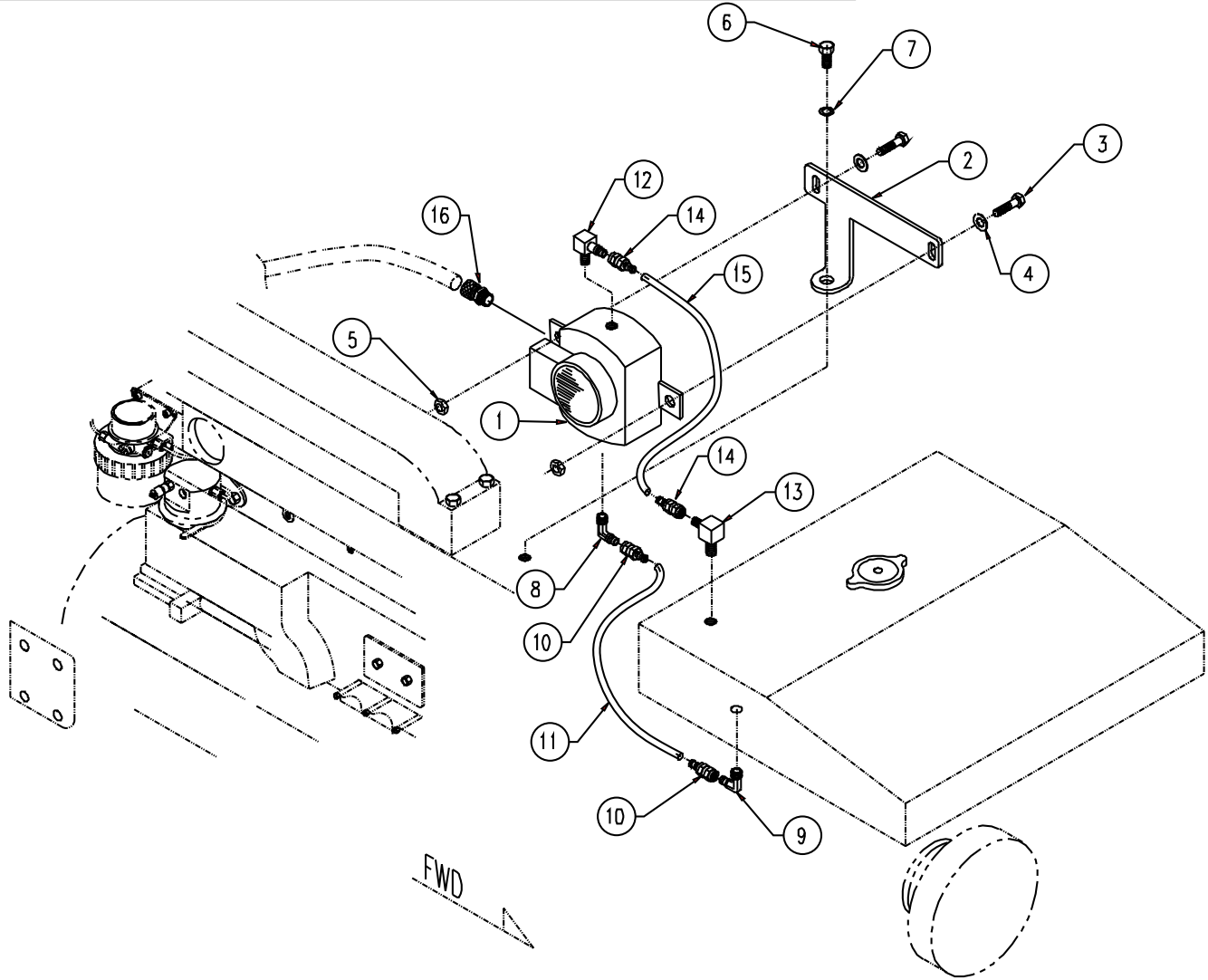
Low Oil Level Switch/ Gauge



A-8602/ C-5543a

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-10004	1	Oil Level Switch/ Gauge	-
2	23-71018	1	Bracket, Oil Level Switch Gauge Mounting	-
3	12-00111	4	Capscrew, Hex Head, 1/4 -20 x 3/4"	-
4	15-00102	4	Lock Washer, Helical 1/4"	-
5	15-00111	4	Flat Washer 1/4"	-
6	01435-00855	2	Capscrew, Hex Head Flanged M8 x 1.25 x 55 mm	-
7	21-79604	1	Female Run Tee, Steel 3/8 NPT x 3/8 -37T	-
8	27-09602	1	Tube Assembly, Low Oil Level Switch/ Gauge	-
9	21-79501	1	Male Elbow 90° Steel 1/4 NPT x 3/8 -37T	-
10	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT	-
11	21-51045	1	Male Compression Fitting Brass 1/4" Tube x 1/4 HB	-
12	41-01011	9	Hose 1/4" ID Push-on	-
13	21-71045	1	Female Swivel Brass 1/4HB x 1/4 -45T	-
14	21-14810	1	Male Elbow 45° Steel 1/8 NPT x 1/4 -37T	-
15	00-40016	1	Strain Relief Connection 1/2 NPT	-
16	21-79501	1	Female Swivel M18 x 1.5 x 3/8- 37T	-
17	16-09503	1	O-ring	-

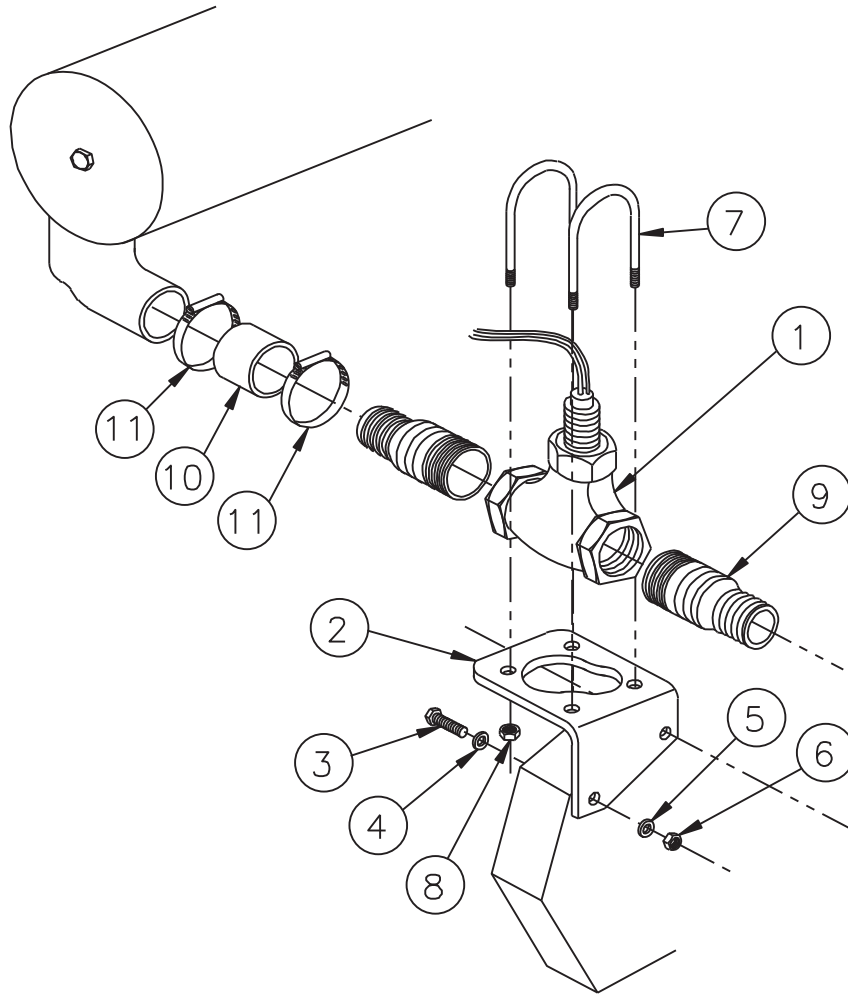
Low Coolant Level Switch/ Gauge



A-8350/ C-4519

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-10003	1	Coolant Level Switch/ Gauge (Isolated Ground)	-
2	23-09509	1	Gauge Bracket	-
3	12-00031	2	Cap Screw, Hex Head, M6 x 1.0 x 25 mm	-
4	15-00008	2	Flat Washer, M6	-
5	14-04803	2	Hex Nut, Nylock, M6 x 1.0	-
6	12-20913	1	Cap Screw, Socket Head, M12 x 1.75 x 30 mm	-
7	15-04802	1	Lock Washer, High Collar, M12	-
8	21-70011	1	Male Elbow, 90°, Steel, 1/2 NPT x 3/8 -37T	-
9	21-00015	1	Male Elbow, 90°, Steel, 1/4 NPT x 3/8 -37T	-
10	21-71034	2	Female Swivel, Brass, 3/8 HB x 3/8-37T, Push-on	-
11	41-01020	10	Hose, 3/8" I.D., Push-on	-
12	21-71044	1	Male Elbow, 90°, Brass, 1/4 NPT x 1/4-45T	-
13	21-71043	1	Male Elbow, 90°, Brass, 1/8 NPT x 1/4-45T	-
14	21-71045	2	Female Swivel, Brass, 3/8 HB x 1/4-45T, Push-on	-
15	41-01011	10	Hose, 1/4" I.D., Push-on	-
16	00-40016	1	Strain Relief Connection, 1/2 NPT	-

Raw Water Flow Switch with Dry Exhaust

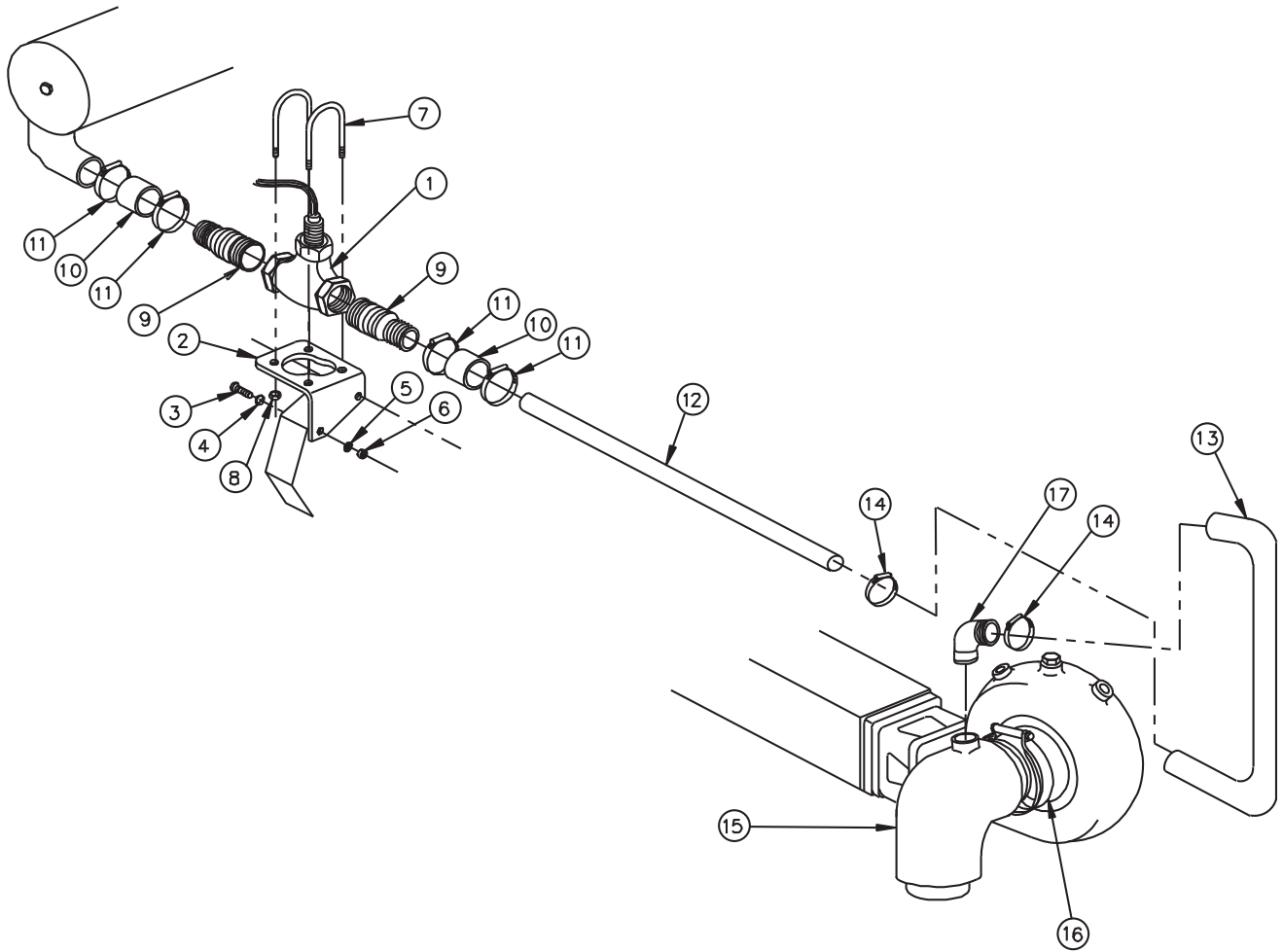


A-8516, A-9081/ B-8012

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-11004	1	Flow Switch 10 GPM 1 -1/4 NPT (Generator Set)	-
	37-11006	1	Flow Switch 6 GPM 1 -1/4 NPT (Propulsion Unit)	-
2	23-19501	1	Bracket, Flow Switch Mounting	-
3	12-00716	2	Capscrew, Hex Head M8 x 1.25 x 55 mm	-
4	15-00701	2	Flat Washer M8	-
5	15-00702	2	Lock Washer Helical M8	-
6	14-00711	2	Hex Nut M8 x 1.25	-
7	19-19501	2	U-Bolt 1 -1/2" ID x 3/8 -16 S/S	-
8	14-00302	2	Lock Nut, Plain Flanged 3/8 -16	-
9	21-15017	2	Male Connector Brass 1 -1/4 NPT x 1 -1/4" HB	-
10	18-19501	1	Hose 1 -1/4" ID x 2 -1/2"	-
11	19-01020	2	Hose Clamp #20 Extended Band S/S	-

Raw Water Flow Switch & Wet Exhaust Elbow, 4"

Heat Exchanged



A-8519 / B-8014

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	37-11004	1	Flow Switch, Bronze 10 GPM	-
2	23-19501	1	Bracket, Flow Switch Mounting	-
3	12-00716	2	Capscrew, Hex Head M8 x 1.25 x 55 mm	-
4	15-00701	2	Flat Washer M8	-
5	15-00702	2	Lock Washer Helical M8	-
6	14-00711	2	Hex Nut M8 x 1.25	-
7	19-19501	2	U-Bolt 1 -1/2" ID x 3/8 -16 S/S	-
8	14-00302	4	Lock Nut Plain Flanged 3/8 -16	-
9	21-15017	2	Male Connector Brass 1 -1/4 NPT x 1 -1/4" HB	-
10	18-19501	2	Hose 1 -1/4" ID x 2 -1/2"	-
11	19-01020	4	Hose Clamp #20 Extended Band S/S	-
12	27-19503	1	Tube, Raw Water Discharge S/S	-
13	41-01070	24	Hose 1 -1/4" ID	-
14	19-00020	4	Hose Clamp #20	-
15	27-31412	1	Elbow, Wet Exhaust 4"	-
16	19-31401	1	V-clamp	-
17	21-31007	1	Male Elbow, 90° Copper 1" NPT x 1-1/4" HB	-

Raw Water Flow Switch & Wet Exhaust Elbow, 5"

Keel Cooled

Picture not available at time of printing.

A-9127/

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	37-11004	1	Flow Switch, Bronze 10 GPM	-
2	23-19504	1	Bracket, Flow Switch Mounting	-
7	19-19501	2	U-Bolt 1 -1/2" ID x 3/8 -16 S/S	-
8	14-00302	4	Lock Nut Plain Flanged 3/8 -16	-
9	21-15017	2	Male Connector Brass 1 -1/4 NPT x 1 -1/4" HB	-
10	27-31605	1	Elbow, Wet Exhaust 5" S/S	-
11	11-31635	1	Gasket, Turbo Exhaust	-
12	21-31008	1	Male Elbow 90° Copper 1 -1/4 NPT x 1 -1/4" HB	-
13	41-01070	24	Hose 1 -1/4" ID	-
14	19-00020	4	Hose Clamp #20	-
15	27-19603	1	Tube, Raw Water Discharge S/S	-
16	18-19501	2	Hose 1 -1/4" ID x 2 -1/2"	-
17	19-01020	4	Hose Clamp #20 Extended Band S/S	-
18	25-19501	1	Raw Water Pump	-
19	R135101	1	Gear, Raw Water Pump Drive	-
20	15-19503	1	Shaft Flat Washer M20	-
21	14-19501	1	Hex Nut	-
22	32-00005	1	Cotter Pin S/S 1/8" x 1 -1/4"	-
23	16-19503	1	O-ring	-
24	12-00954	2	Capscrew, Hex Head M12 x 1.75 x 35 mm	-
25	15-00912	2	Lock Washer, Helical M12	-
26	27-19502	1	Tube, Raw Water Pump Outlet	-
27	18-19501	1	Hose 1 -1/4" ID x 2 -1/2"	-
28	19-01020	1	Hose Clamp #20 Extended Band S/S	-
29	19-71031	1	Adelle Clamp 1 -1/4" ID x 1/2" stud	-
30	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
31	15-00802	1	Lock Washer, Helical M10	-
32	15-00805	1	Flat Washer M10	-
33	23-19505	1	Bracket, Tube Support	-
34	21-42202	1	Spacer	-

GROUP 9 - ACCESSORIES & OPTIONAL EQUIPMENT

Raw Water Flow Switch & Wet Exhaust Elbow, 4"

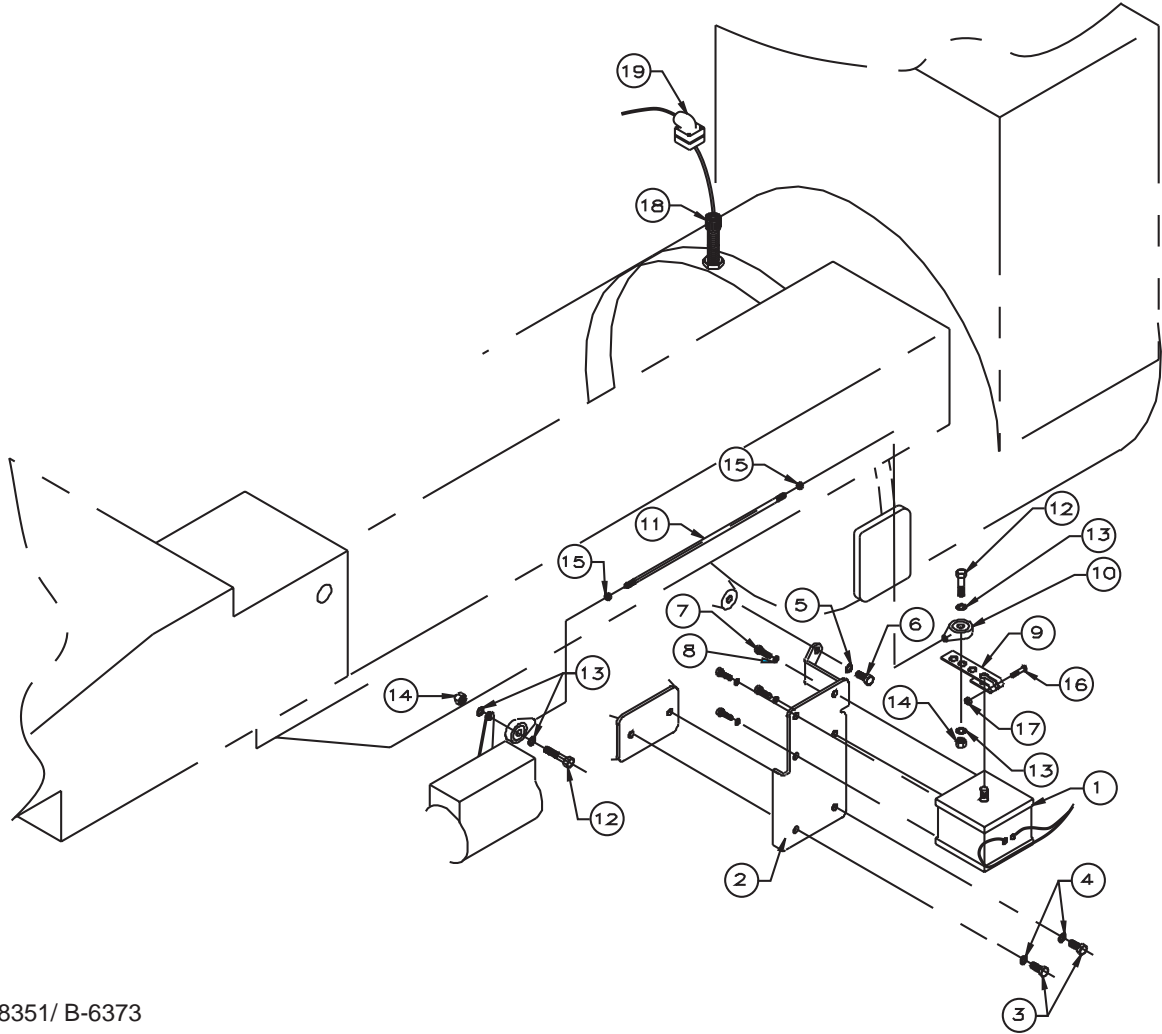
Keel Cooled

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A-9402

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	37-11004	1	Flow Switch, Bronze 10 GPM	-
2	23-19504	1	Bracket, Flow Switch Mounting	-
7	19-19501	2	U-Bolt 1 -1/2" ID x 3/8 -16 S/S	-
8	14-00302	4	Lock Nut Plain Flanged 3/8 -16	-
9	21-15017	2	Male Connector Brass 1 -1/4 NPT x 1 -1/4" HB	-
10	27-31412	1	Elbow, Wet Exhaust 4"	-
11	19-31401	1	V-clamp	-
12	21-31007	1	Male Elbow 90° Copper 1" NPT x 1 -1/4" HB	-
13	41-01070	24	Hose 1 -1/4" ID	-
14	19-00020	4	Hose Clamp #20	-
15	27-19603	1	Tube, Raw Water Discharge S/S	-
16	18-19501	2	Hose 1 -1/4" ID x 2 -1/2"	-
17	19-01020	4	Hose Clamp #20 Extended Band S/S	-
18	25-19501	1	Raw Water Pump	-
19	R135101	1	Gear, Raw Water Pump Drive	-
20	15-19503	1	Shaft Flat Washer M20	-
21	14-19501	1	Hex Nut	-
22	32-00005	1	Cotter Pin S/S 1/8" x 1 -1/4"	-
23	16-19503	1	O-ring	-
24	12-00954	2	Capscrew, Hex Head M12 x 1.75 x 35 mm	-
25	15-00912	2	Lock Washer, Helical M12	-
26	27-19502	1	Tube, Raw Water Pump Outlet	-
27	18-19501	1	Hose 1 -1/4" ID x 2 -1/2"	-
28	19-01020	1	Hose Clamp #20 Extended Band S/S	-
29	19-71031	1	Adelle Clamp 1 -1/4" ID x 1/2" stud	-
30	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
31	15-00802	1	Lock Washer, Helical M10	-
32	15-00805	1	Flat Washer M10	-
33	23-19505	1	Bracket, Tube Support	-
34	21-42202	1	Spacer	-

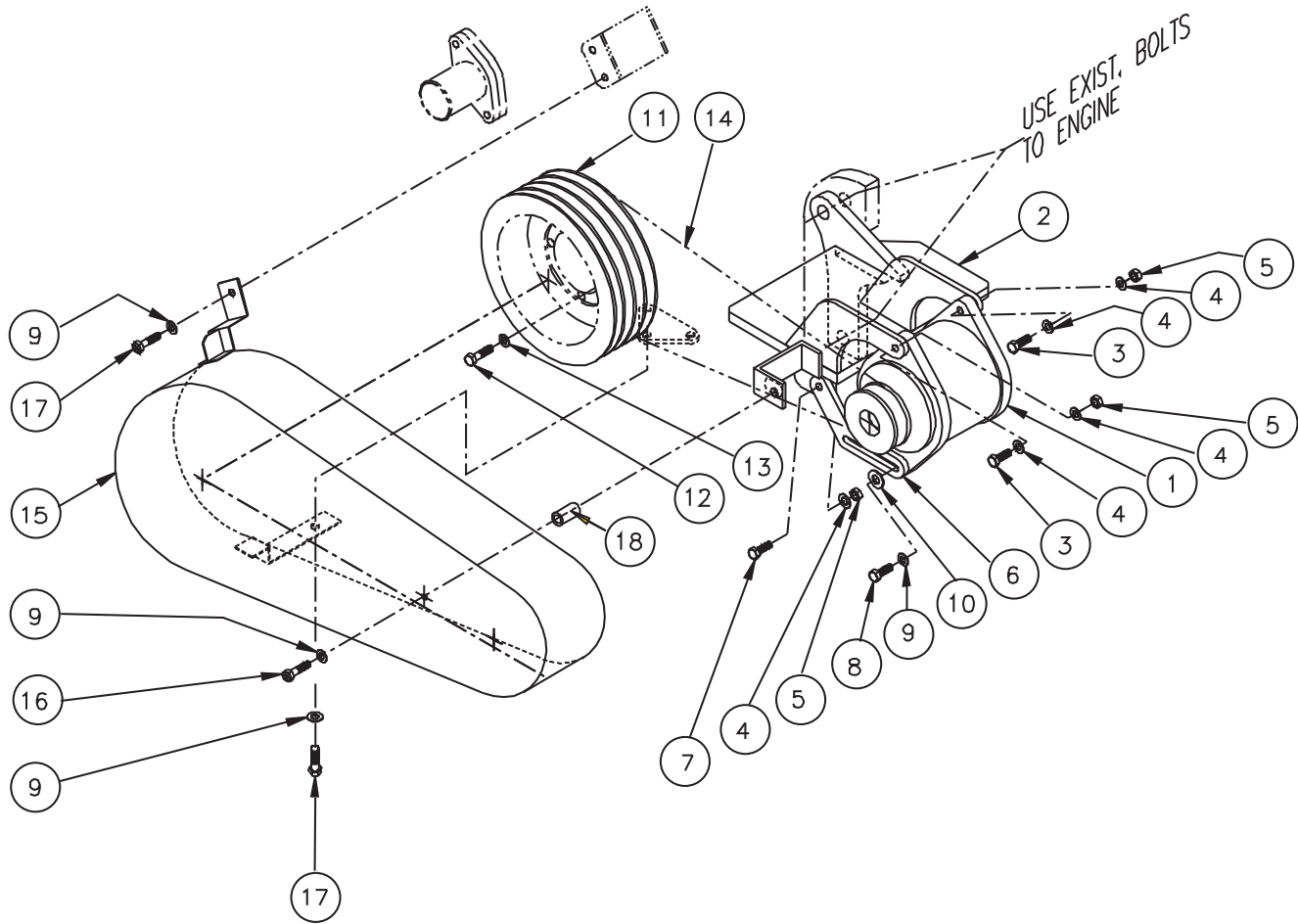
12 & 24 Volt Governor Actuator & Mounting



A-8351/ B-6373

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-71035	1	Governor Actuator, 12 Volt	-
	22-71037	1	Governor Actuator, 24 Volt	-
2	23-99501	1	Bracket, Governor Actuator Mounting	-
3	12-00753	2	Cap Screw, Hex Head, M8 x 1.25 x 30 mm	-
4	15-00702	2	Lock Washer, Helical M8	-
5	12-00831	1	Cap Screw, Hex Head, M10 x 1.5 x 25 mm	-
6	15-00802	1	Lock Washer, Helical M10	-
7	12-00111	4	Cap Screw, Hex Head, 1/4-20 x 3/4"	-
8	15-00102	4	Lock Washer, Helical 1/4	-
9	23-99502	1	Governor Actuator Lever	-
10	00-99501	2	Rod End, 5/16" I.D. x 5/16-24	-
11	00-99502	1	Control Rod, 5/16-24 x 7.76"	-
12	12-00213	2	Cap Screw, Hex Head, 5/16-18 x 1-1/4"	-
13	15-05001	6	Lock Washer, High Collar, 5/16	-
14	14-00212	2	Hex Nut, Nylock 5/16-18	-
15	14-00214	2	Hex Nut, 5/16-24	-
16	12-00113	1	Cap Screw, Hex Head, 1/4-20 x 1-1/4"	-
17	14-00112	1	Hex Nut, Nylock, 1/4-20	-
18	22-43208	1	Magnetic Sender, 5/8-18 x 2-3/8"	-
19	22-70036	1	Connector Assembly, 90°	-

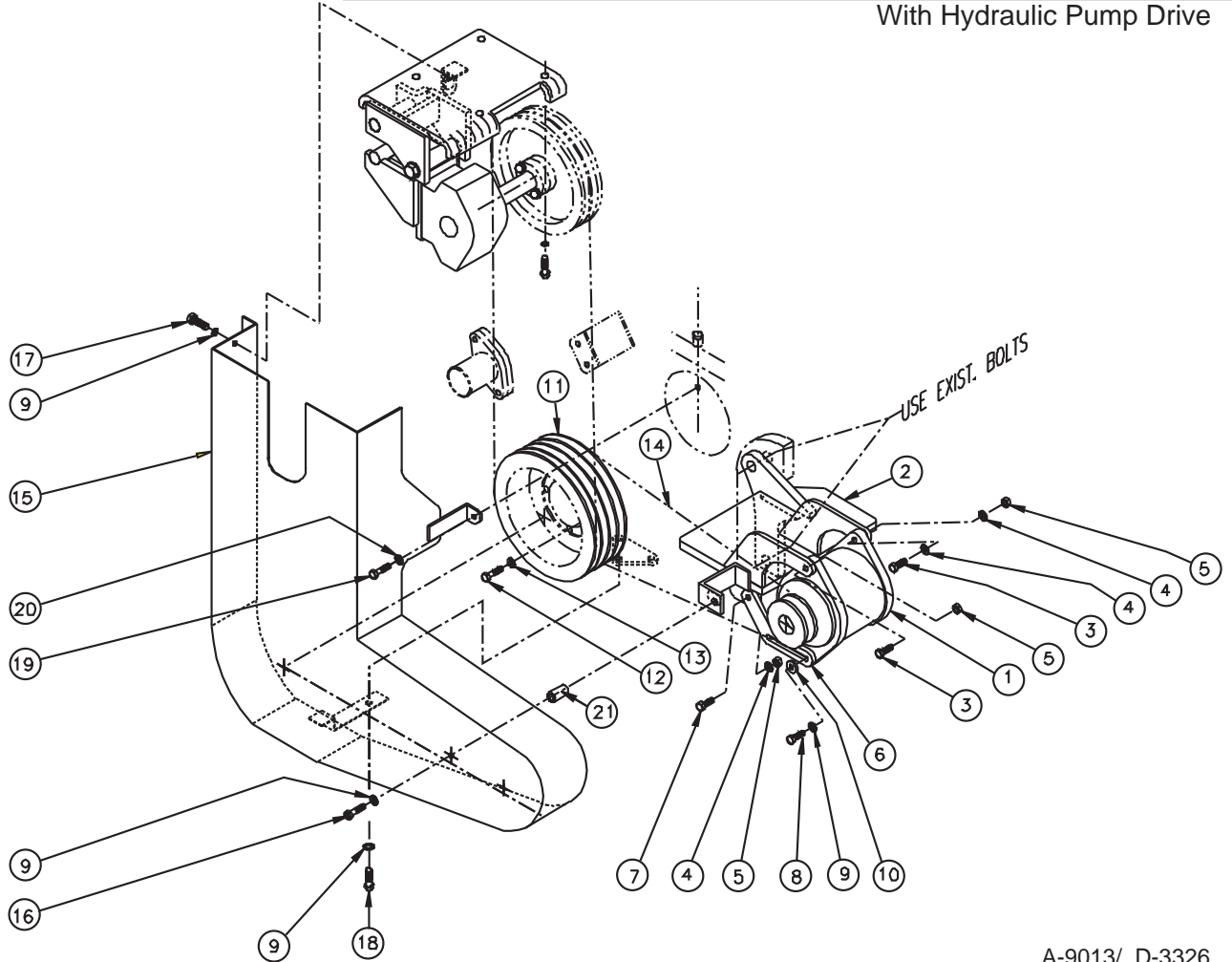
12 Volt 40 Amp Alternator, Left Side Mounted



A-8902/ C-4434

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27060-78301-71	1	Alternator, 12 Volt 40 Amp	-
2	23-89501	1	Alternator & Engine Mounting Bracket	-
3	12-00714	2	Capscrew, Hex Head, M8 x 1.25 x 40 mm	-
4	15-00701	5	Flat Washer, M8	-
5	14-04802	3	Hex Nut, Nylock, M8 x 1.25	-
6	23-70025	1	Tensioning Arm	-
7	12-00753	1	Capscrew, Hex Head, M8 x 1.25 x 30 mm	-
8	12-00712	1	Capscrew, Hex Head, M8 x 1.25 x 25 mm	-
9	15-00702	4	Lock Washer, Helical, M8	-
10	15-00201	1	Stud Washer, 5/16	-
11	34-69501	1	Crankshaft Pulley, 4-A x 8"	-
12	12-00318	4	Capscrew, Hex Head, 3/8-16 x 2-1/2"	-
13	15-00321	4	Flat Washer, 3/8" SAE	-
14	40-01601	1	Drive Belt	-
15	00-49602	1	Belt Guard, (see also application with hydraulic pump drive)	-
16	12-00714	1	Capscrew, Hex Head, M8 x 1.25 x 40 mm	-
17	12-00711	1	Capscrew, Hex Head, M8 x 1.25 x 20 mm	-
18	12-00751	1	Capscrew, Hex Head, M8 x 1.25 x 16 mm	-

12 Volt 40 Amp Alternator , Left Side Mounted
 With Hydraulic Pump Drive



A-9013/ D-3326

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27060-78301-71	1	Alternator, 12 Volt 40 Amp	-
2	23-89501	1	Alternator & Engine Mounting Bracket	-
3	12-00714	2	Capscrew, Hex Head, M8 x 1.25 x 40 mm	-
4	15-00701	5	Flat Washer, M8	-
5	14-04802	3	Hex Nut, Nylock, M8 x 1.25	-
6	23-70025	1	Tensioning Arm	-
7	12-00753	1	Capscrew, Hex Head, M8 x 1.25 x 30 mm	-
8	12-00712	1	Capscrew, Hex Head, M8 x 1.25 x 25 mm	-
9	15-00702	4	Lock Washer, Helical M8	-
10	15-00201	1	Stud Washer, 5/16	-
11	34-69501	1	Crankshaft Pulley, 4-A x 8"	-
12	12-00318	4	Cap Screw, Hex Head, 3/8-16 x 2-1/2"	-
13	15-00321	4	Flat Washer, 3/8" SAE	-
14	40-01601	1	Drive Belt 31/64" x 50-7/8"	-
15	00-69602	1	Belt Guard, Alternator & Hydraulic Pump Drive	-
16	12-00714	1	Capscrew, Hex Head, M8 x 1.25 x 40 mm	-
17	12-00711	1	Capscrew, Hex Head, M8 x 1.25 x 20 mm	-
18	12-00751	1	Capscrew, Hex Head, M8 x 1.25 x 16 mm	-
19	12-01131	1	Capscrew, Hex Head, M6 x 1.0 x 20 mm	-
20	15-00008	1	Flat Washer, M6	-
21	21-26801	**	Spacer, (**as required)	-