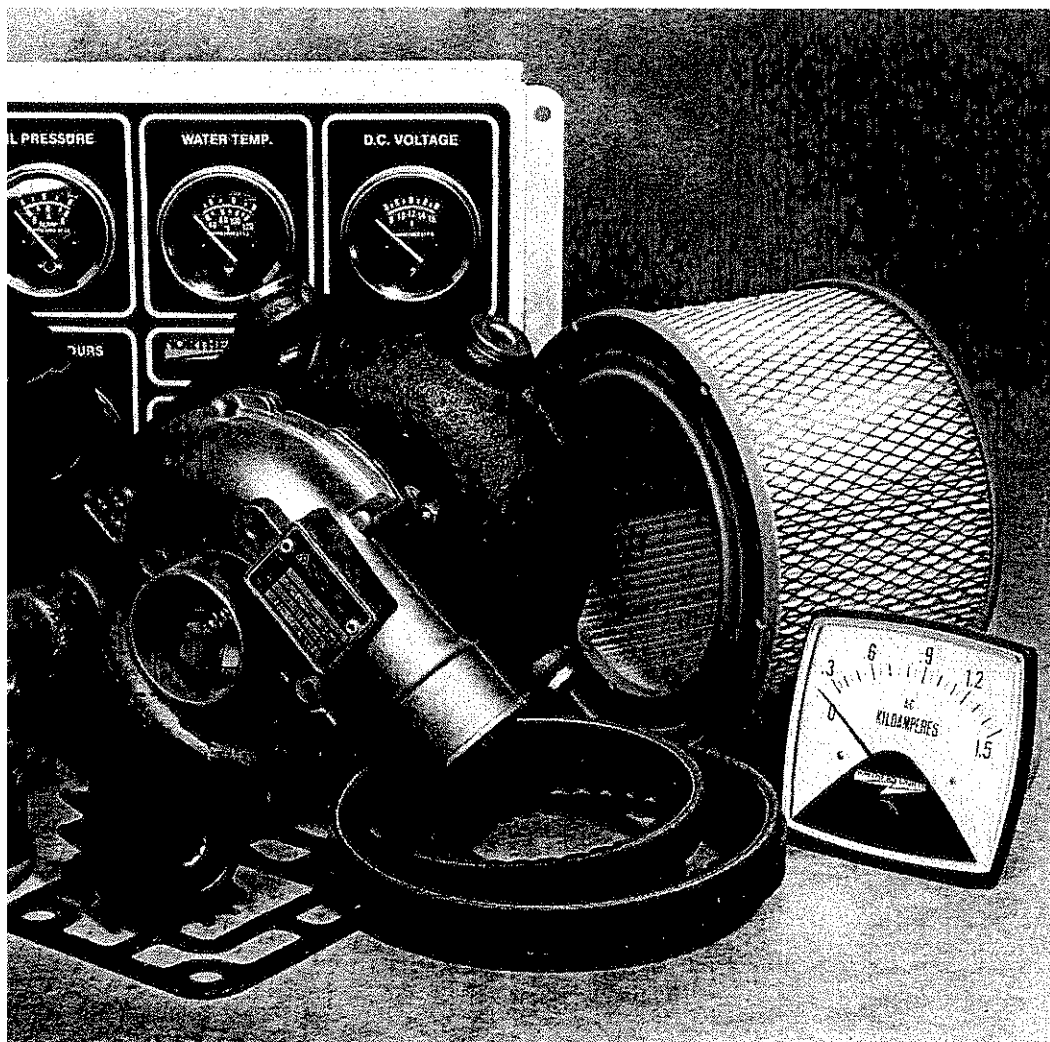


PARTS CATALOG

P668



8009

MODEL P668 PARTS MANUAL

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Please read thoroughly before attempting to use this manual.

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INTRODUCTION

MODEL DESIGNATION

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

L - M - NL

L- Lugger marine propulsion engine
M- Northern Lights marine generator set
NL- Northern Lights industrial generator set

668

Base Model #
 (Deere 6068 Series engine block)

65C-6 - 99C

C-Series
 kW for Commercial Application. (Deere 6068 engine block)

D, T, A

Aspiration
D Natural
T Turbo-charged
A Turbo-charged & aftercooled.

Q

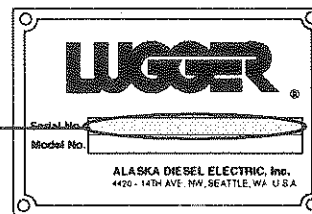
Q 1200 RPM Generator Set

L 668 D	Lugger naturally aspirated marine propulsion engine. John Deere model 6068 D.
L 668 T	Lugger turbocharged marine propulsion engine. John Deere model 6068 T.
M 668 D	Northern Lights naturally aspirated 1800 rpm marine diesel generator set. John Deere 6068 D.
M 65 C-6	Northern Lights naturally aspirated 1800 rpm C-Series commercial marine diesel generator set. John Deere 6068 D.
M 668 T	Northern Lights turbocharged 1800 rpm marine diesel generator set. John Deere 6068 T.
M 668 A	Northern Lights turbocharged and aftercooled 1800 rpm marine diesel generator set. John Deere 6068 T.
M 99 C	Northern Lights turbocharged 1800 rpm C-Series commercial marine diesel generator set. John Deere 6068 T.
M 668 Q	Northern Lights naturally aspirated 1200 rpm marine diesel generator set. John Deere 6068 D.
M 668 QT	Northern Lights turbo-charged 1200 rpm marine diesel generator set. John Deere 6068 T.
NL 668 D	Northern Lights naturally aspirated 1800 rpm marine diesel generator set. Radiator cooling. John Deere 6068 D.
NL 668 T	Northern Lights turbocharged 1800 rpm marine diesel generator set. Radiator cooling. John Deere 6068 T.

** When no suffix appears data will be applicable to all models*

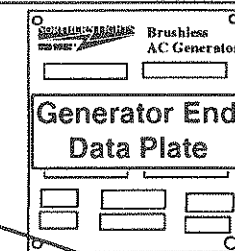
SERIAL NUMBERS

When ordering Lugger parts, refer to this serial number located on flywheel housing. Serial numbers for all Luggers and Northern Lights are eight digits, e.g. 1234-5678.

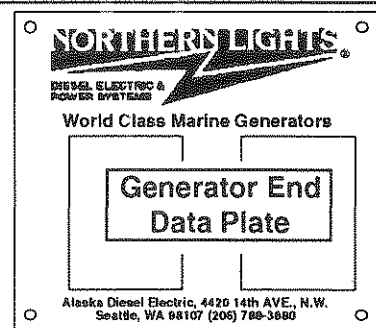


When ordering Northern Lights parts, refer to the serial number, highlighted here from the generator set data.

Every Northern Lights generator set has two data plates and two serial numbers, which may cause some confusion. One Serial number is for the generator end, and it is found on the Generator End Data Plate. The other serial number, found with the Generator Set Data Plate, should be used when ordering parts.



or



READING A PARTS PAGE

IMPORTANT:

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

1 — ELECTRICAL SYSTEM

Alternator Assembly M, NL668

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIALNUMBER
5	185046210	1	Alternator Assembly	11
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	-

14 — P668 09/93 **15**

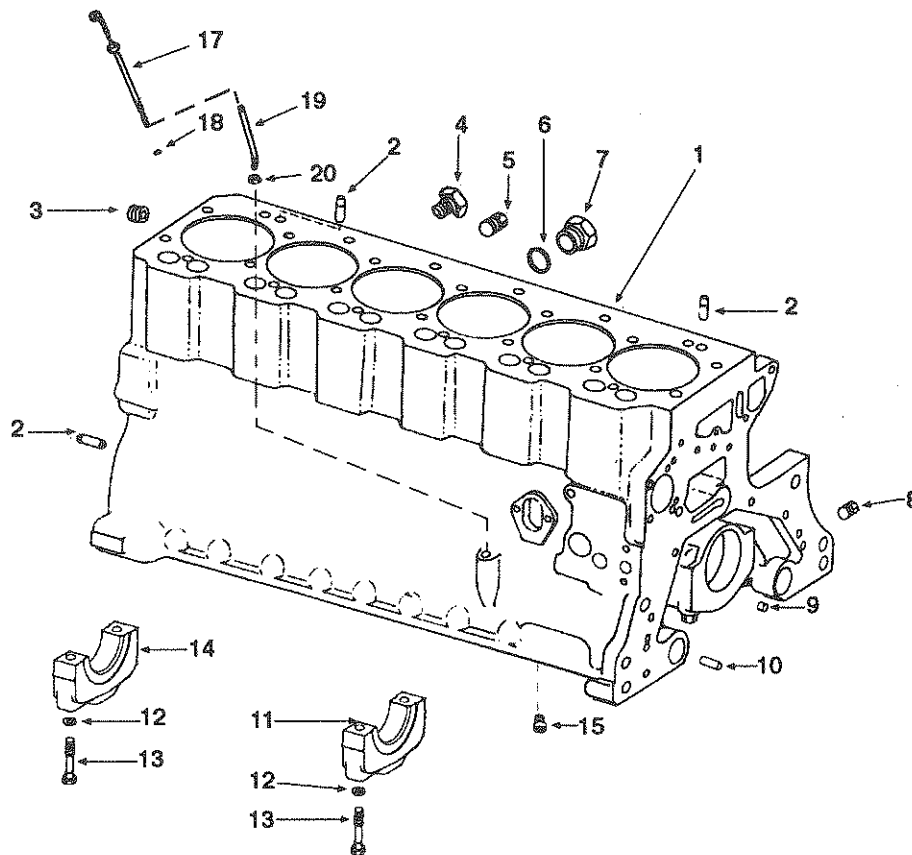
12 — 5-2 **13**

REFERENCES:

- Grouping section title.
- Model designation of equipment that use parts listed on this page. If no models indicated, parts page applies to all models covered in manual.
- Title and description of assembly.
- Item numbers that correspond to key column numbers for parts identification.
- (**) Denotes assembly or kit.
- Key column for locating parts shown on drawing.
- Part number.
- Quantity of parts used.
- Description of each component part.
- Part is used on units between these numbers. Check your unit's serial number before ordering parts. (See "SERIAL NUMBERS," page 2.)
- Assembly description and keys included.
- Grouping index number.
- Page number within the grouping index.
- Manual title.
- Page publication date. Books may include pages with different publication dates.

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

NOTES

CYLINDER BLOCK ASSEMBLY*Pre - Common Lube System*

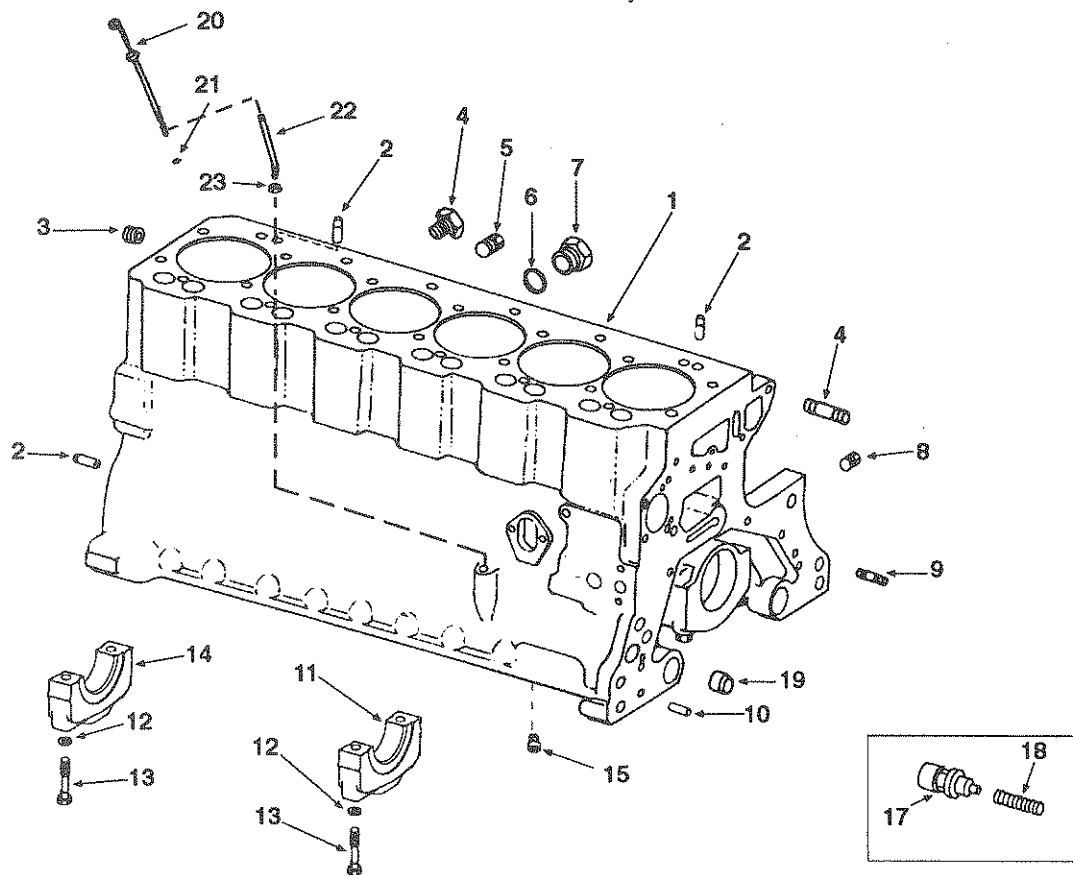
TP15500, TP28438

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE31656	1	Cylinder Block (marked R90171 - includes Keys 1-15)	up to S/N 362801
2	R48685	4	Dowel Pin	-
3	15H652	1	Plug 1"NPT	-
4	R55233	**	Plug	-
5	15H624	1	Plug 1/2NPT	-
6	U13639	1	O-Ring	-
7	R39741	1	Drain Plug	-
8	R104592	7	Plug	-
9	T18891	2	Cap	-
10	R26650	2	Dowel Pin	-
11	R65215	6	Main Bearing Cap #'s 1-6	-
12	T20168	14	Washer	-
13	T23474	14	Capscrew	-
14	R79089	1	Main Bearing Cap #7	-
15	R54802	6	Orifice	-
16	21-10002	**	Drain Cock 1/4NPT (not shown)	-
17	AT21535	1	Dipstick	-
18	R10093	1	O-Ring	-
19	R86819	1	Dipstick Tube	-
20	14H826	1	Hex Nut 1/2-13	-
** As Required				

ENGINE

CYLINDER BLOCK ASSEMBLY

Common Lube System

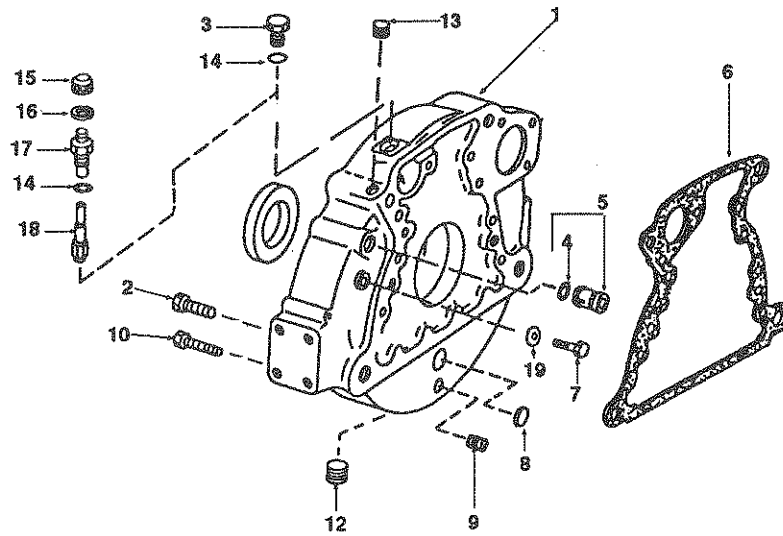


TP41941

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE50677	1	Cylinder Block (marked R112871 - includes Keys 1-15 & 21)	from S/N 362802
2	R48685	4	Dowel Pin	-
3	15H652	1	Plug 1"NPT	-
4	T33279	2	Stud	-
5	15H624	1	Plug 1/2NPT	-
6	U13639	1	O-Ring	-
7	R39741	1	Drain Plug	-
8	R104592	7	Plug	-
9	T25701	1	Stud	-
10	R26650	2	Dowel Pin	-
11	R65215	6	Main Bearing Cap #'s 1-6	-
12	T20168	14	Washer	-
13	T23474	14	Capscrew	-
14	R79089	1	Main Bearing Cap #7	-
15	R54802	6	Orifice	-
16	21-10002	**	Drain Cock 1/4NPT (not shown)	-
17	R111135	1	Valve, Oil Bypass	-
18	R111137	1	Spring	-
19	R26493	1	Bushing (oil pressure relief valve)	-
20	AT21535	1	Dipstick	-
21	R10093	1	O-Ring	-
22	R86819	1	Dipstick Tube	-
23	14H826	1	Hex Nut 1/2-13	-
** As Required				

ENGINE

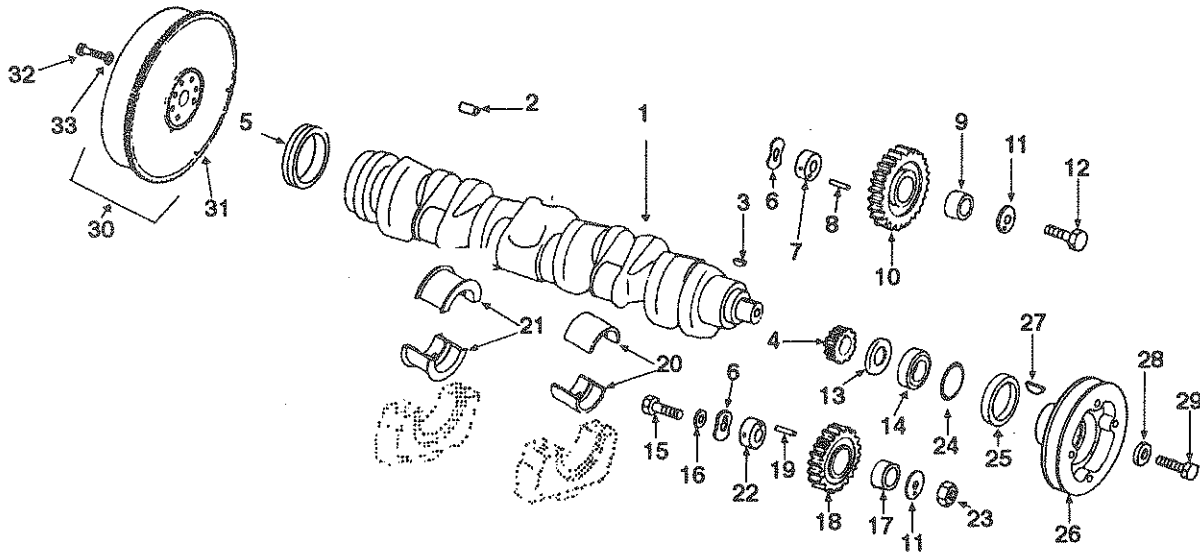
FLYWHEEL HOUSING SAE #2 & #3



KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R58967	1	Flywheel Housing SAE #2	-
	R76741	1	Flywheel Housing SAE #3	-
2	19H1100	8	Capscrew, Hex Head 3/8-16 x 1-3/8"	-
3	M1746T	1	Plug	-
4	R27149	1	O-Ring	-
5	AR61533	1	Plug (includes Key 4)	-
6	Gasket	1	Gasket	-
7	19H2351	1	Capscrew, Hex Head 1/2-13 x 1/2"	-
8	T13518	1	Cap (SAE #3 only)	-
9	21-11003	1	Plug, Socket Head 1/2NPT (SAE #3 only)	-
10	12-01318	4	Capscrew, Hex Head 5/8-11 x 2-1/2"	-
11	RE44574	1	Rear Main Seal	-
12	21-51905	1	Plug 1"NPT	-
13	21-51900	1	Plug 1/8NPT	-
14	T13213	1	Washer	-
15	B3362R	1	Cap	-
16	B3285R	1	Washer	-
17	T22537	1	Fitting	-
18	T22536	1	Gear	-
19	T20168	1	Washer	-

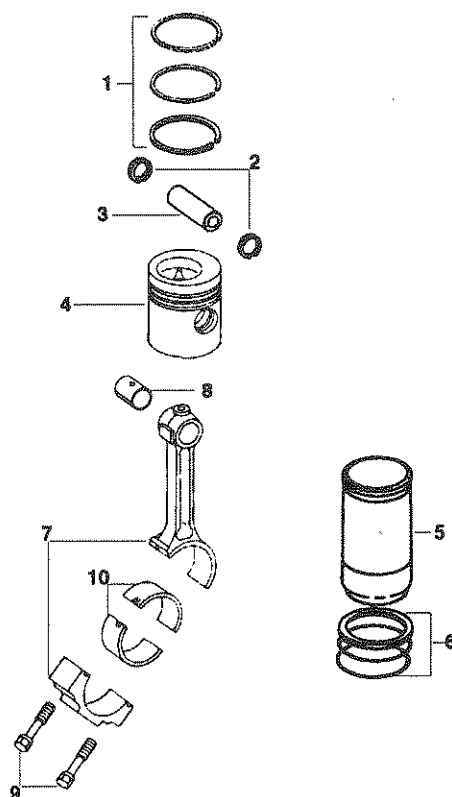
ENGINE

CRANKSHAFT ASSEMBLY



KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE33687	1	Crankshaft (includes Keys 2-4)	-
2	R48685	1	Dowel Pin	-
3	26H72	1	Key 1/8" x 5/8"	-
4	T20094	1	Gear 24 teeth	-
5	RE44574	1	Rear Main Seal (former #RE24959)	-
6	T26324	2	Thrust Washer	-
7	R89824	1	Pin	-
8	34H283	1	Spring Pin 3/16" x 1-1/8"	-
9	T20034	1	Bushing	-
10	AR91660	1	Gear 55 teeth (Marked R70182 - includes Key 9)	-
11	T26326	2	Thrust Washer	-
12	T26327	1	Screw	-
13	T20046	1	Oil Slinger	-
14	AR67942	1	Seal	-
15	19H3183	1	Capscrew, Hex Head 1/2-13 x 2-1/8" (Grade 8)	-
16	R100105	1	Washer (former #R76126)	-
17	T26321	1	Bushing	-
18	AT24252	1	Gear 45 Teeth (Marked T26322 - includes Key 17)	-
19	34H286	1	3/16" x 1-1/2"	-
20	AT21140	6	Bearing: Standard	-
	AT21110	6	Bearing: .010" Undersize	-
	AT21112	6	Bearing: .020" Undersize	-
	AT21114	6	Bearing: .030" Undersize	-
21	AT21139	1	Bearing: Standard	-
	AT21132	1	Bearing: .010" Undersize	-
	AT21134	1	Bearing: .020" Undersize	-
	AT21136	1	Bearing: .030" Undersize	-
22	R89824	1	Pin	-
23	E69392	1	Nut 1/2-13	-
24	H35244	1	O-Ring	-
25	R81989	1	Sleeve	-
26	RE12820	1	Pulley, with damper	-
27	26H27	1	Key 5/16" x 1-1/8"	-
28	R109086	1	Spacer (former #CD16045)	-
29	R84978	1	Capscrew	-
30	RE23941	1	Flywheel SAE #11-1/2 (includes Key 31)	-
31	R28811	1	Ring Gear	-
32	19H2993	4	Capscrew, Hex Head 1/2-13 x 1-1/2" (Grade 8)	-
33	T23891	4	Washer	-

CYLINDER LINER ASSEMBLY and CONNECTING ROD

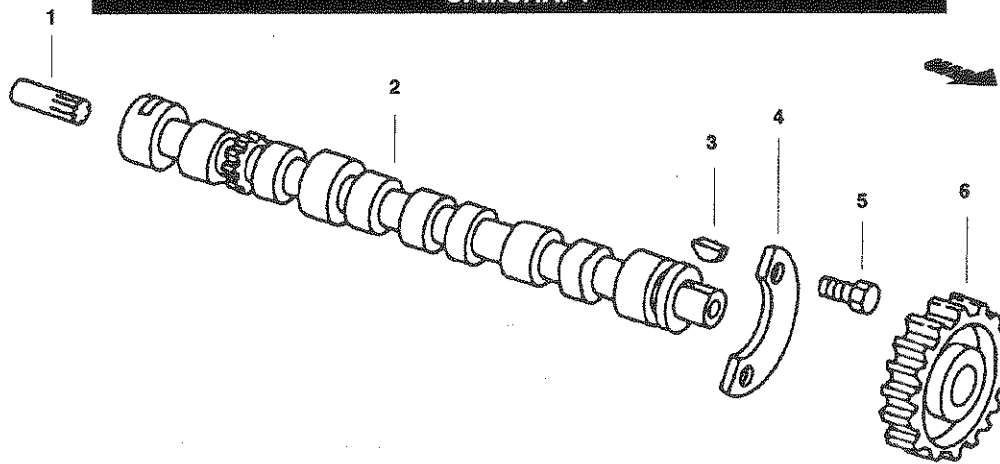


T59090F, TP15499

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	RE28966	6	Cylinder Liner Kit (includes Keys 1-6) 668D, 65C-6	-
**	RE50373	6	Cylinder Liner Kit (includes Keys 1-6) 668T, 99C	-
1	RE48818	6	Piston Ring Kit	-
2	R54114	12	Snap Ring	-
3	R56188	6	Piston Pin	-
4		6	Piston (not available separately - included in Cylinder Liner Kit)	-
5	R80500	6	Cylinder Liner	-
6	AR65507	6	O-Ring Seal Kit	-
7	AR66400	6	Connecting Rod (includes Keys 8-9)	-
8	R57451	6	Bushing	-
9	R74195	12	Screw	-
10	AR97517	6	Rod Bearing - Standard	-
	AR97653	6	Rod Bearing - .010" Undersize	-
	AR97654	6	Rod Bearing - .020" Undersize	-
	AR97655	6	Rod Bearing - .030" Undersize	-
Note: Cylinder Liner Shims .002" #CD15466 .004" #R65833 Refer to Workshop Manual CTM8 for application instructions.				

ENGINE

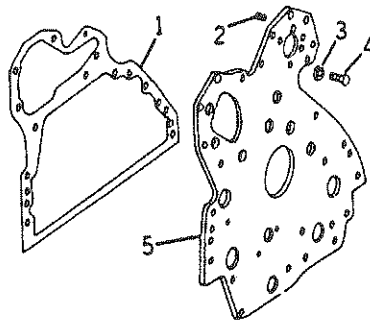
CAMSHAFT



TP14248

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R81514	1	Gear, Tachometer Drive 12 teeth	-
2	R82821	1	Camshaft	-
3	T28041	1	Key	-
4	T20072	1	Thrust Plate	-
5	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-
6	T20070	1	Gear 48 teeth	-

ENGINE FRONT PLATE

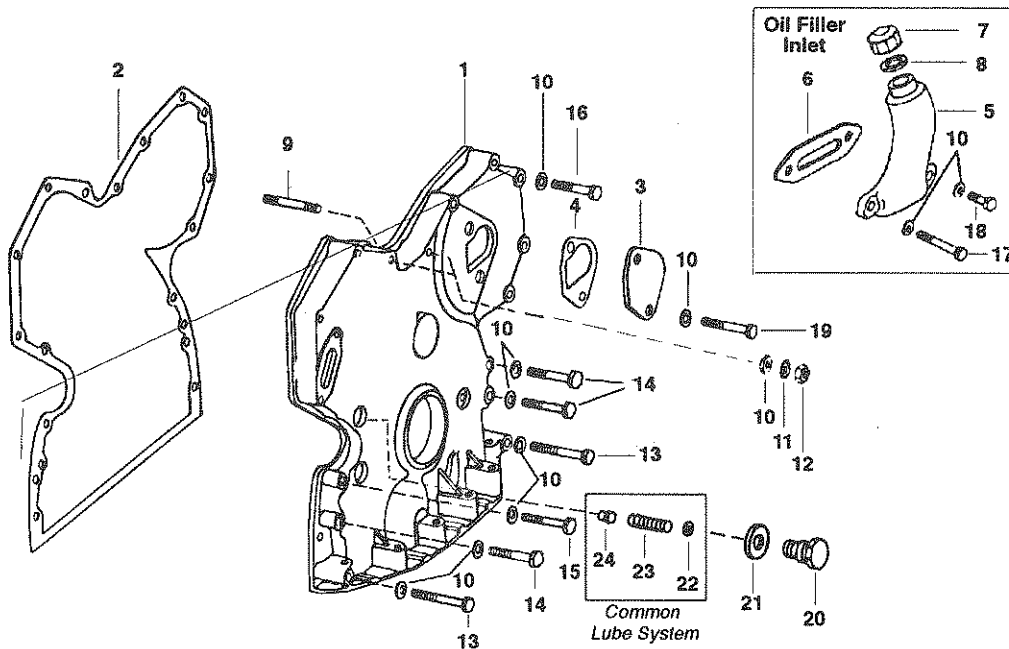


TP1130

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R90648	1	Gasket	-
2	AT21191	8	Set Screw	-
	AT22919	2	Set Screw	-
3	12H324	5	Star Washer 3/8", External Tooth	-
4	T20166	5	Screw	-
5	RE16149	1	Plate (also order 2ea AT22919 and 8ea AT21191)	-

ENGINE

TIMING GEAR COVER

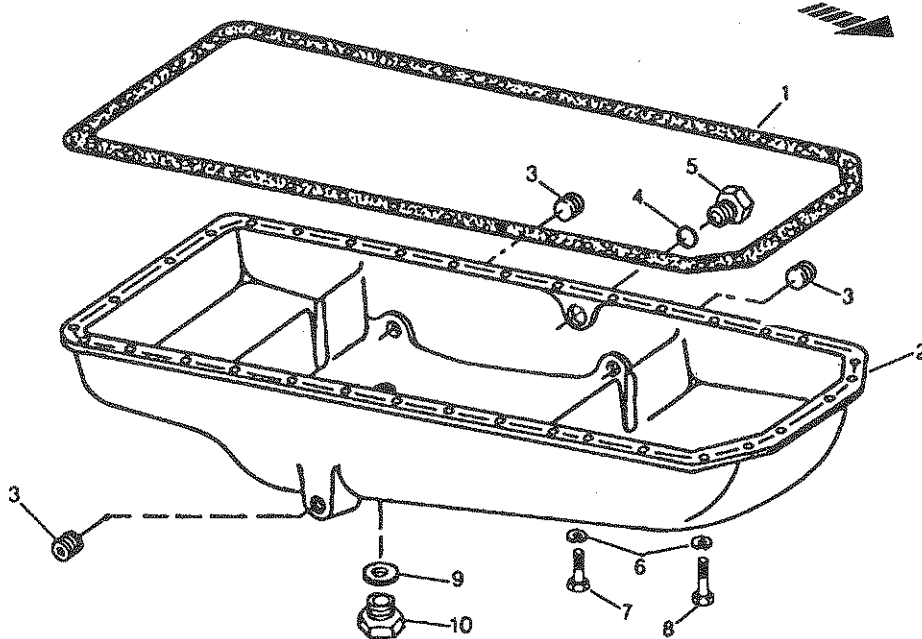


TP25609

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE39252	1	Timing Cover	-
2	R119269	2	Gasket	-
3	T20362	1	Cover	-
4	R97773	1	Gasket	-
5	RE25648	1	Filler Neck	-
6	R87259	1	Gasket (includes Key 6)	-
7	R90788	1	Cap	-
8	T20328	1	Gasket	-
9	T33279	2	Stud	-
10	15-00300	18	Flat Washer	-
11	15-00302	2	Lock Washer 3/8"	-
12	14-00311	2	Hex Nut 3/8-16	-
13	12-00318	2	Capscrew, Hex Head 3/8-16 x 2-1/2"	-
14	12-00315	4	Capscrew, Hex Head 3/8-16 x 1-3/4"	-
15	12-00317	1	Capscrew, Hex Head 3/8-16 x 2-1/4"	-
16	12-00301	5	Capscrew, Hex Head 3/8-16 x 1-3/8"	-
17	12-00310	3	Capscrew, Hex Head 3/8-16 x 3"	-
18	19H2665	1	Capscrew, Hex Head 3/8-16 x 1-5/8"	-
19	19H2284	2	Capscrew Hex Head 3/8-16 x 7/8"	-
20	T27657	1	Fitting Plug	-
21	A4827R	1	Washer	-
22	24H1290	**	Washer 21/64" x 3/4" x 0.035"	-
23	T27658	1	Spring	-
24	R83169	1	Valve	-

ENGINE

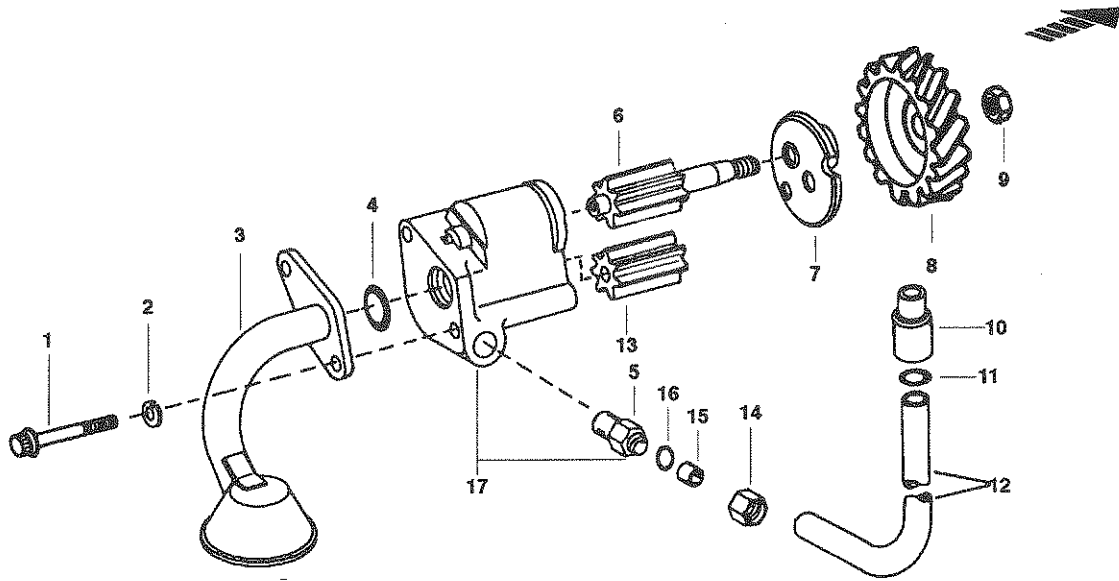
OIL PAN



TP28423

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R97344	1	Gasket	-
2	R106045	1	Oil Pan	-
3	21-13101	**	Plug 1/2NPT	-
4	R47151	1	O-Ring	-
5	R27474	1	Drain Plug	-
6	15-00302	8	Lock Washer 3/8"	-
7	19H3411	28	Capscrew, Flanged Head 3/8-16 x 1-1/8"	-
	12-00316	2	Capscrew, Hex Head 3/8-16 x 2"	-
8	12-00314	4	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
	12-00313	2	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
9	T13213	1	Washer	-
10	M1746T	1	Drain Plug	-

ENGINE OIL PUMP

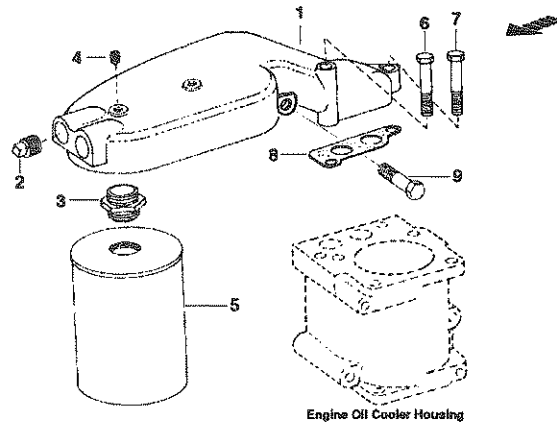


TP21298

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	AR79463	1	Oil Pump Assembly (includes Keys 1-7, 13 & 17)	-
1	R116424	2	Capscrew	-
2	R74553	2	Washer	-
3	RE52844	1	Oil Pump Intake	-
4	R61871	1	O-Ring	-
5	R79560	1	Adapter	-
6	AR85788	1	Gear & Shaft 7 teeth (also order #13 R66177)	-
7	R54632	1	Cover	-
8	T20298	1	Gear	-
9	14H826	1	Hex Nut 1/2-13	-
10	R54815	1	Oil Pump Tube Connector	-
11	R80632	**	O-Ring	-
	R97185	1	O-Ring (use with Cylinder Block marked R112871)	-
12	R79561	1	Tube	-
	R112867	1	Tube (use with Cylinder Block marked R112871)	-
13	R66177	1	Gear 7 teeth (also order #6 AR85788)	-
14	R79562	1	Fitting	-
15	R79563	1	Sleeve	-
16	R80632	1	O-Ring	-
17	RE15490	1	Housing (marked R54629)	-
** As Required				

ENGINE

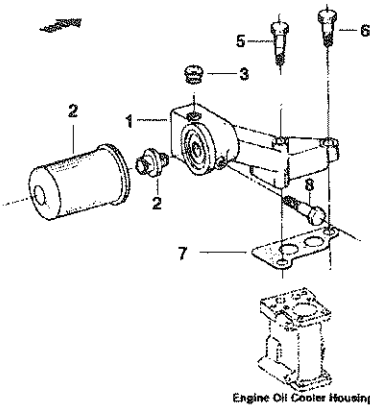
DUAL OIL FILTER HOUSING



TP1577

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	AR66403	1	Filter Housing (marked R56189 - includes Keys 2-4)	-
2	15H585	1	Plug	-
3	R54823	2	Adapter	-
4	21-51900	**	Plug 1/8NPT	-
5	24-00000	2	Oil Filter	-
6	12-00319	1	Capscrew, Hex Head 3/8-16 x 2-3/4"	-
7	12-00314	1	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
8	R98488	1	Gasket	-
9	12-00351	1	Capscrew, Hex Head 3/8-16 x 3-1/4"	-
** As Required				-

SINGLE OIL FILTER HOUSING

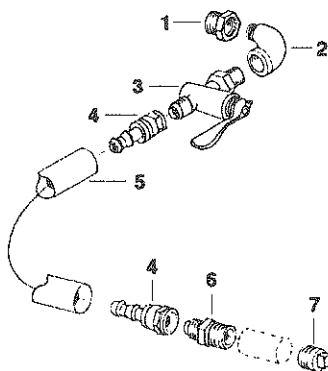


TP6655

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE31299	1	Adapter (marked R91597)	-
2	R54823	1	Adapter	-
3	21-10004	**	Plug 3/8NPT	-
4	21-10003	**	Plug 1/4NPT	-
5	24-00000	1	Oil Filter	-
6	12-00319	1	Capscrew, Hex Head 3/8-16 x 2-3/4"	-
7	12-00314	1	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
8	R98488	1	Gasket	-
9	12-00356	1	Capscrew, Hex Head 3/8-16 x 4-1/4"	-
** As Required				-

ENGINE

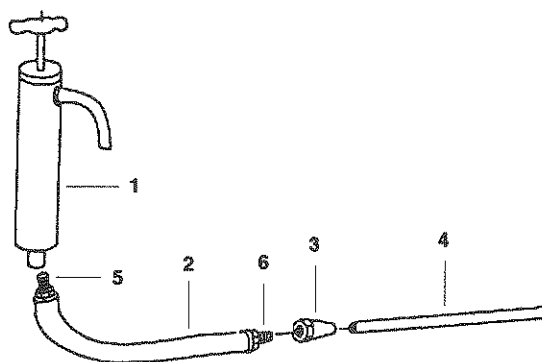
OIL DRAIN M - NL668



A240D/B-1563

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	21-00134	1	Bushing, Brass 1/2NPT x 3/8NPT	-
2	21-62506	1	Street Elbow 90° Steel 3/8NPT	-
3	36-71002	1	Shut Off Valve	-
4	21-71042	2	Female Swivel, Brass 1/2 Hose Barb x 1/2-45T	-
5	18-71035	1	Hose 1/2"ID x 17"	-
6	21-71040	1	Male Connector, Brass 1/2NPT x 1/2-45T	-
7	21-10005	1	Plug, Hex Head, Steel 1/2NPT	-

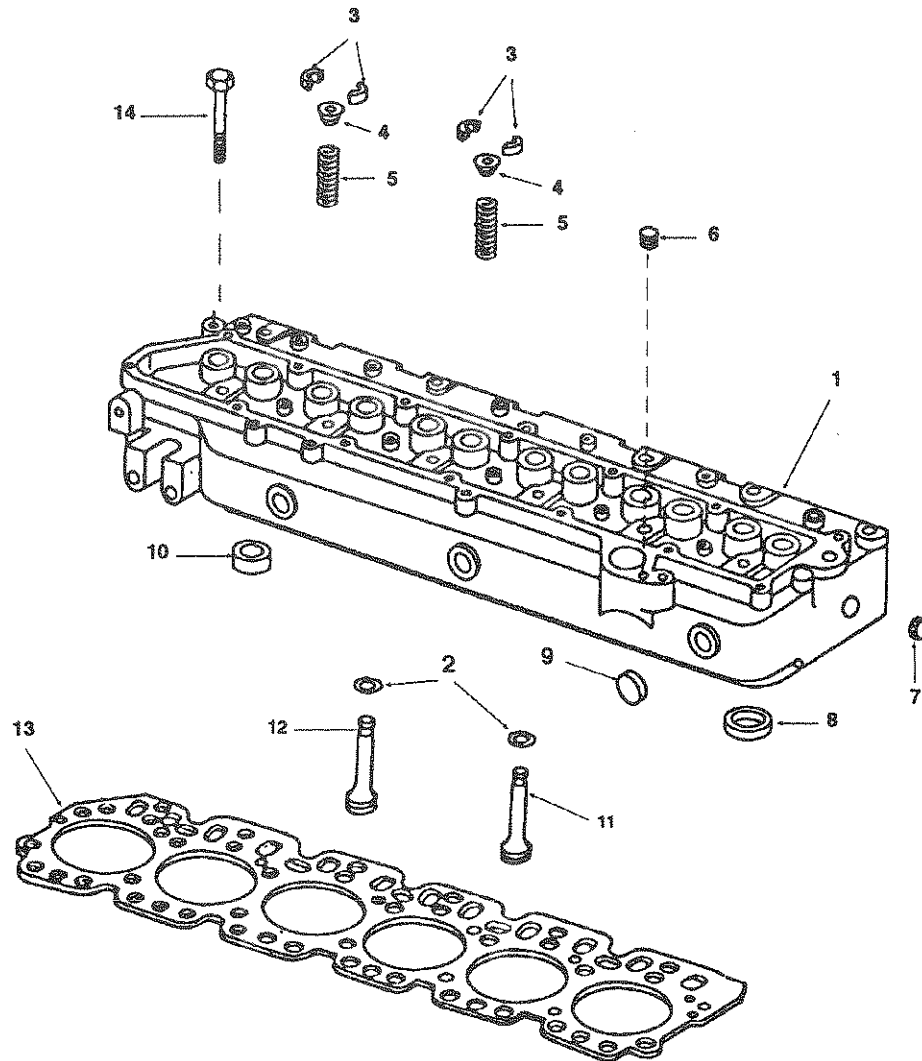
OIL DRAIN PUMP KIT L668



A957B/A-1380

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	36-71000	1	Oil Drain Pump Kit (includes all Keys)	-
1	36-71001	1	Hand Pump	-
2	18-71031	1	Hose 3/8" ID x 14"	-
3	21-71036	1	Flare Nut	-
4	21-71037	1	Tube	-
5	21-71030	1	Male Connector, Brass 1/4NPT x 3/8 Hose Barb	-
6	21-71031	1	Male Connector, Brass 3/8-45T x 3/8 Hose Barb	-

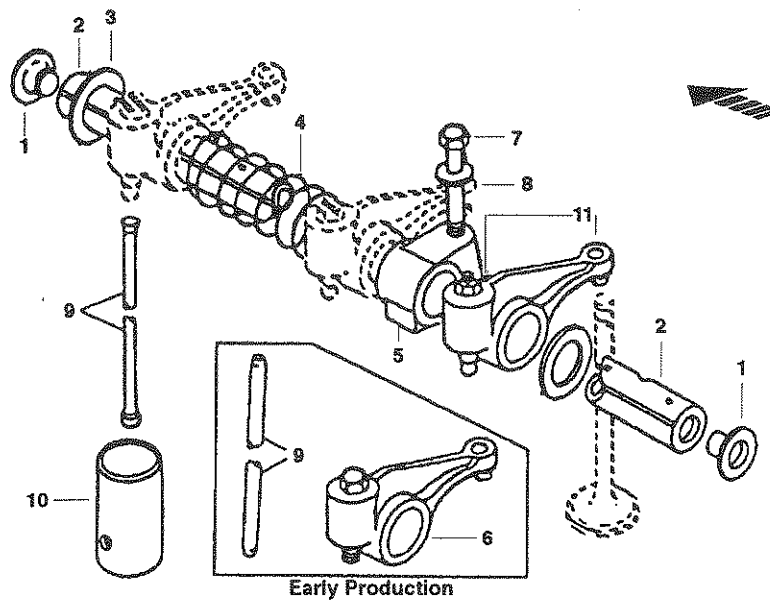
CYLINDER HEAD ASSEMBLY



TP28391

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	RE55527	1	Cylinder Head Assembly (includes Keys 1-12)	-
1	RE55526	1	Cylinder Head (includes Keys 7-10)	-
2	RE31617	12	Seal	-
3	R91889	24	Lock	-
4	RE31323	12	Rotator	-
5	R26125	12	Spring	-
6	R104592	1	Pipe Plug	-
7	A3910R	2	Cap	-
8	R98063	6	Valve Seat Insert - Standard	-
	R98335	6	Valve Seat Insert - Oversize	-
9	R43409	3	Cap	-
10	R85687	6	Valve Seat Insert - Standard	-
	R93910	6	Valve Seat Insert - Oversize	-
11	R90692	6	Exhaust Valve - Standard	-
	R97492	6	Exhaust Valve - .015" Oversize	-
	R97493	6	Exhaust Valve - .030" Oversize	-
12	R98062	6	Intake Valve - Standard	-
	R97490	6	Intake Valve - .015" Oversize	-
	R97491	6	Intake Valve - .030" Oversize	-
13	R92426	1	Gasket	-
14	R85363	26	Capscrew	-

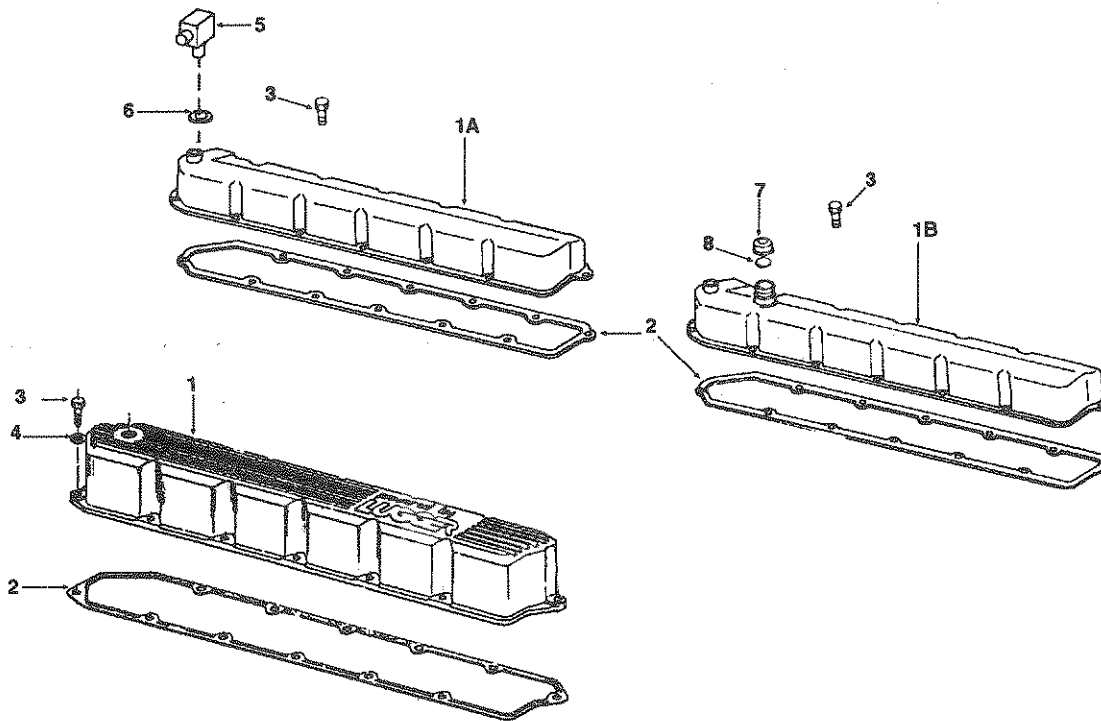
VALVE TRAIN COMPONENTS



TP42714

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R54565	2	Plug	-
2	R54986	1	Shaft	-
3	T20316	2	Washer	-
4	T20314	5	Spring	-
5	T20315	6	Support	-
6	RE31973	12	Rocker Arm	up to S/N 379968
	RE43384	12	Rocker Arm	from S/N 379969
7	12-00318	6	Capscrew, Hex Head 3/8-16 x 2-1/2"	-
8	R42729	6	Washer	-
9	R83429	12	Push Rod	up to S/N 379968
	R107731	12	Push Rod	from S/N 379969
10	T20073	12	Tappet	-
11	R119314	12	Lock Nut 3/8-24 HS SAE8 (Grade 8)	from S/N 379969

ROCKER ARM COVER

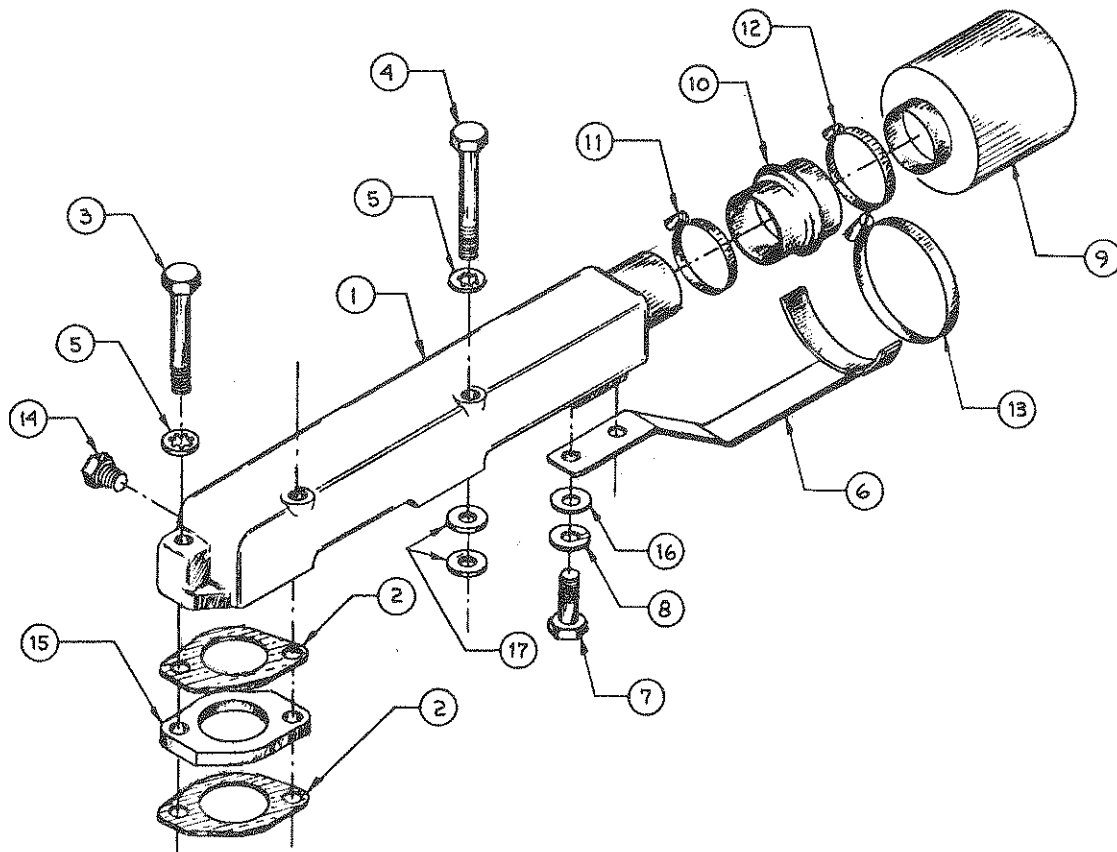


TP25871, A3556J, A3361D/C-2131E

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-71604	1	Rocker Arm Cover, Aluminum (L-M668)	-
1A	AT21679	1	Rocker Arm Cover, No Filler (NL&C-Series)	-
1B	AT18188	1	Rocker Arm Cover, Rear Filler (NL668)	-
2	R75728	1	Gasket	-
3	12-00112	12	Capscrew, Hex Head 1/2-20 x 1" (L-M668)	-
	AR45530	12	Screw with Washer (NL&C-Series)	-
4	15-00121	12	Flat Washer 1/4 (L-M668)	-
5	R92154	1	Elbow	-
6	R495R	1	O-Ring	-
7	T20294	1	Cap	-
8	T20328	1	Gasket	-
9	18-00011	1	Hose 3/4"ID x 4" (L-M668D&Q)	-
	18-72509	1	Hose 3/4"ID x 9-1/2" (L-M668T&A)	-
10	21-00025	1	Male Elbow 90°, PVC 3/4HB x 3/4HB	-

INTAKE & EXHAUST

INTAKE and FILTER L - M668D & Q

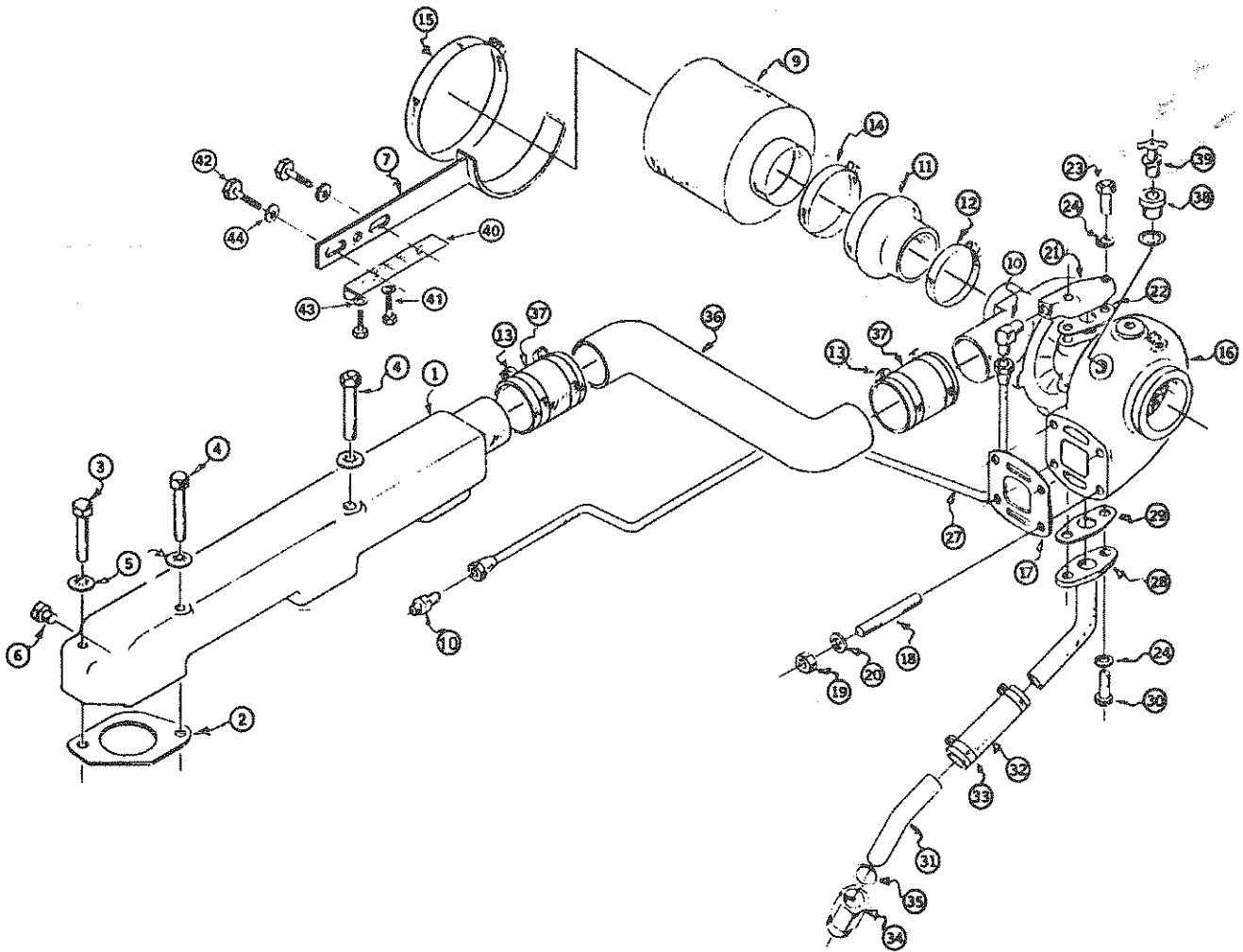


A966E/B-2222B

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-21607	1	Intake Manifold	-
2	11-21011	2	Gasket	-
3	12-00310	1	Capscrew, Hex Head 3/8-16 x 3"	-
4	12-00354	2	Capscrew, Hex Head 3/8-16 x 3-3/4"	-
5	15-00303	3	Star Washer, Internal 3/8	-
6	23-21610	1	Bracket	-
7	12-00311	2	Capscrew, Hex Head 3/8-16 x 3/4"	-
8	15-00302	2	Lock Washer, Helical 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 1/8NPT	-
15	28-21001	1	Spacer	-
16	15-00301	2	Flat Washer 3/8	-
17	15-00012	2	Stud Washer 3/8	-

INTAKE & EXHAUST

INTAKE and TURBOCHARGER M668T, QT & C-Series



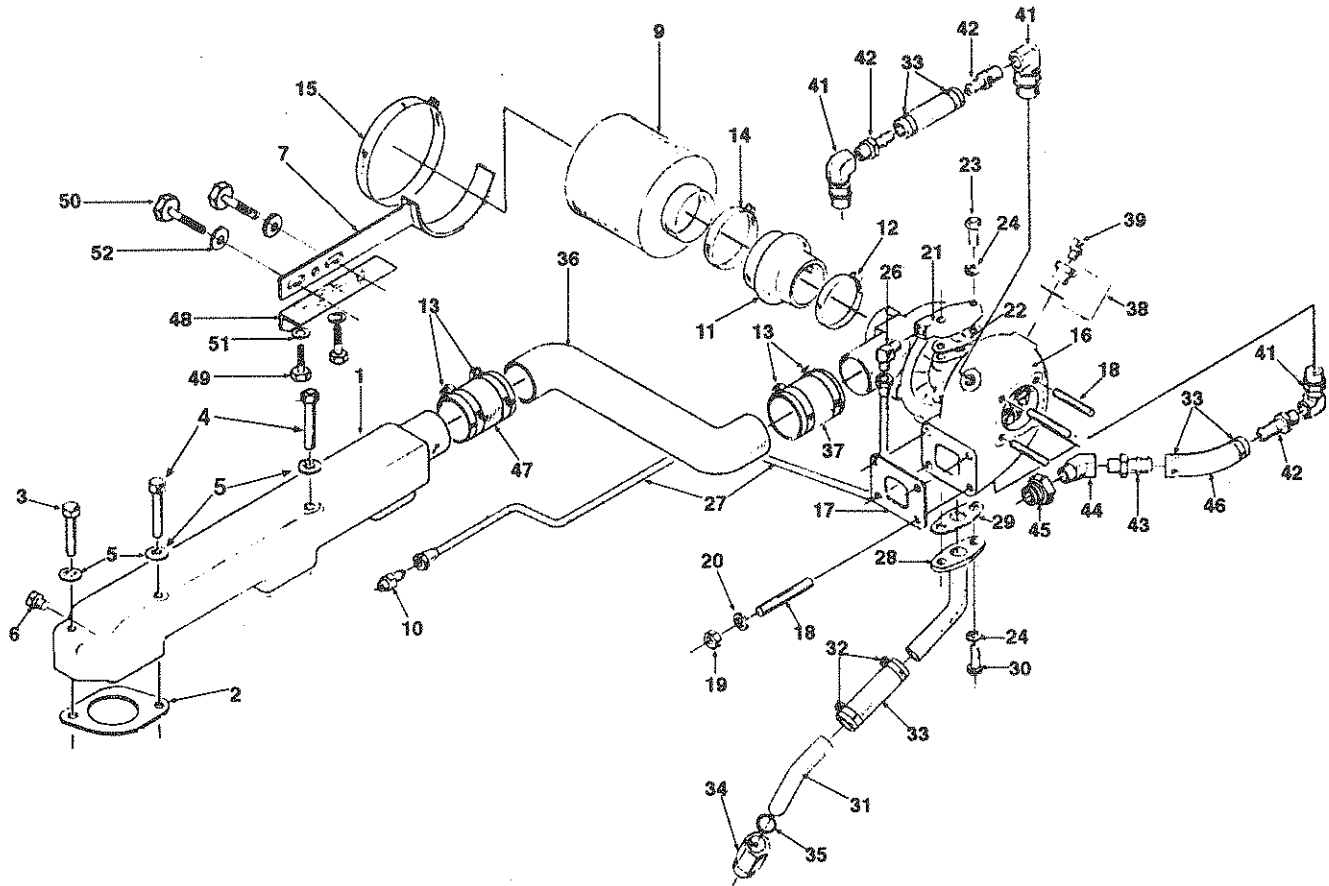
A909M & A5835/C-1392

INTAKE & EXHAUST

INTAKE and TURBOCHARGER M668T, QT & C-Series

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-21607	1	Intake Manifold	-
2	11-21011	1	Gasket	-
3	12-00319	1	Capscrew, Hex Head 3/8-16 x 2-3/4"	-
4	12-00300	1	Capscrew, Hex Head 3/8-16 x 3-1/2"	-
5	15-00301	1	Flatwasher 3/8	-
6	21-00012	1	Plug 1/8NPT	-
7	23-21000	1	Bracket	-
9	24-21000	1	Air Filter	-
10	21-52800	1	Male Connector, Steel 3/8NPT x 3/8-37T (twin Oil Filters)	-
	21-00035	1	Male Elbow, 45°, Steel 1/4NPT x 3/8-37T (single Oil Filter)	-
11	18-21004	1	Hump Hose (with vent hole - M668)	-
	18-21020	1	Hump Hose (w/o vent hole - C-Series)	-
12	19-00036	1	Hose Clamp #36	-
13	19-00032	1	Hose Clamp #32	-
14	19-00072	1	Hose Clamp #72	-
15	19-00128	1	Hose Clamp #128	-
16	30-31426	1	Turbocharger 1800 and 1500RPM (see parts detail)	-
	30-21400	1	Turbocharger 1200RPM (see parts detail)	-
17	11-31401	1	Gasket	-
18	13-00814	4	Stud M10 x 1.5 x 30mm	-
19	14-00817	4	Hex Nut, Stainless Steel M10 x 1.5	-
20	15-00804	4	Wave Washer M10	-
21	R43928	1	Turbo Oil Feed Adapter	-
22	11-31012	1	Gasket	-
23	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40mm	-
24	15-00702	4	Lock Washer M8	-
26	21-00606	1	Male Elbow 90°, Steel 3/8NPT x 3/8-37T	-
27	27-01600	1	Tube Assembly, Turbo Oil Supply (twin Oil Filters)	-
	27-31622	1	Tube Assembly, Turbo Oil Supply (single Oil Filter)	-
28	27-31602	1	Oil Return Pipe, Upper Half	-
29	11-31031	1	Gasket	-
30	12-00712	2	Capscrew, Hex Head M8 x 1.25 x 25mm	-
31	27-31402	1	Oil Return Pipe, Lower Half	-
32	18-11010	1	Hose 3/4" ID x 4-1/4"	-
33	19-00012	2	Hose Clamp #12	-
34	R41285	1	Adapter, O-Ring Seal x 1/2NPT	-
35	16-01000	1	O-Ring	-
36	27-21072	1	Tube, Air Inlet	-
37	18-21014	2	Hose, 2"ID x 2-3/8"	-
38	21-49999	1	Adapter, Steel 1/4NPTF x 5/8 O-Ring Port	-
39	21-10002	1	Drain Cock 1/4NPT	-
40	23-21101	1	Bracket	-
41	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-
42	12-00311	2	Capscrew, Hex Head 3/8-16 3/4"	-
43	15-00302	2	Lock Washer 3/8	-
44	15-00301	2	Flat Washer 3/8	-

INTAKE and TURBOCHARGER L668T



A914/C-1393

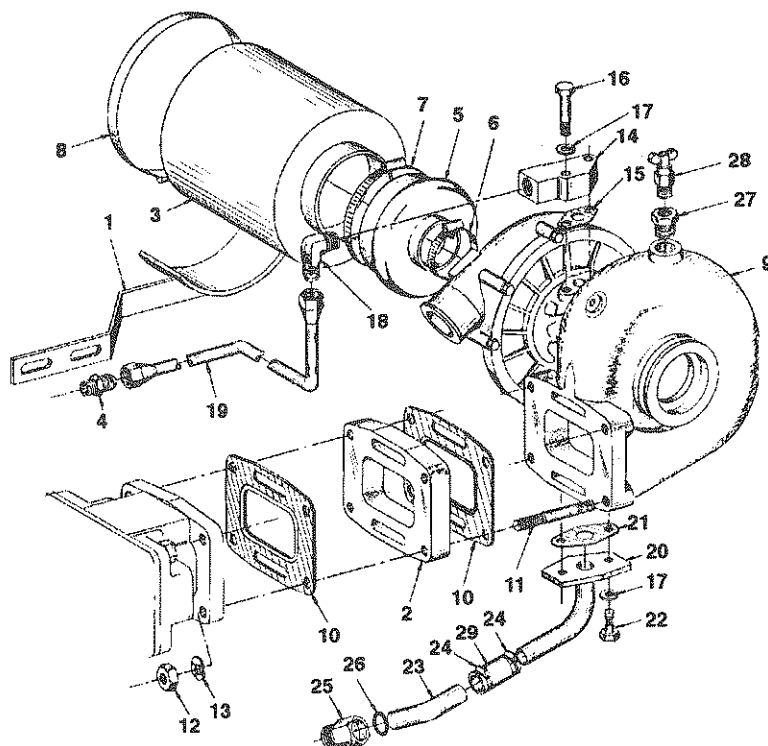
INTAKE & EXHAUST

INTAKE and TURBOCHARGER L668T

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-21607	1	Intake Manifold	-
2	11-21011	1	Gasket	-
3	12-00319	1	Capscrew, Hex Head 3/8-16 x 2-2/4"	-
4	12-00300	2	Capscrew, Hex Head 3/8-16 x 3-1/2"	-
5	15-00303	3	Star Washer, Internal 3/8	-
7	23-21000	1	Bracket	-
9	24-21000	1	Air Filter	-
10	21-00035	1	Male Elbow 40° Steel 1/4NPT x 3/8-37T (single Oil Filter)	-
	21-52800	1	Male Connector, Steel 3/8NPT x 3/8-37T (twin Oil Filters)	-
11	18-21003	**	Hump Hose (w/vent hole)	-
	18-21027	**	Hump Hose (w/o vent hole)	-
12	19-00044	1	Hose Clamp #44	-
13	19-00032	4	Hose Clamp #32	-
14	19-00072	1	Hose Clamp #72	-
15	19-00128	1	Hose Clamp #128	-
16	30-31627	1	Turbocharger	-
17	11-31615	1	Gasket	-
18	13-00814	8	Stud M10 x 1.5 x 30mm	-
19	14-00817	8	Hex Nut, Stainless Steel M10 x 1.5	-
20	15-00804	8	Wave Washer M10	-
21	R43928	1	Oil Feed Adapter	-
22	11-31012	1	Gasket	-
23	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40mm	-
24	15-00702	4	Lock Washer M8	-
26	21-00606	1	Male Elbow, 90° Steel 3/8NPT x 3/8-37T	-
27	27-31622	1	Tube Assembly, Oil Supply (single Oil Filter)	-
28	27-31602	1	Oil Return Pipe, Upper Half	-
29	11-31031	1	Gasket	-
30	12-00712	2	Capscrew, Hex Head M8 x 1.25 x 25mm	-
31	27-31402	1	Oil Return Pipe, Lower Half	-
32	18-11010	2	Hose 3/4" x 4-1/4" Silicon	-
33	19-00012	6	Hose Clamp #6	-
34	R41285	1	Oil Return Fitting	-
35	16-01000	1	O-Ring	-
36	27-21470	1	Tube, Air Inlet	-
37	18-21014	1	Hose 2"ID x 2-3/8"	-
38	21-49999	1	Adapter, Steel 1/4NPTF x 5/8 O-Ring Port	-
39	21-10002	1	Drain Cock 1/4NPT	-
41	21-03459	3	Female Elbow, 90° Steel 5/8 O-Ring Port x 1/2NPT	-
42	21-00129	3	Male Connector, Brass 1/2NPT x 3/4 Hose Barb	-
43	21-11902	1	Male Connector, Brass 3/4NPT x 3/4 Hose Barb	-
44	21-12545	1	Street Elbow 45°	-
46	18-11011	1	Hose 3/4" ID x 4-1/4" Silicon	-
48	23-21607	1	Bracket	-
49	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-
50	12-00311	2	Capscrew, Hex Head 3/8-16 x 3/4"	-
51	15-00302	2	Lock Washer 3/8	-
52	15-00301	2	Flat Washer 3/8	-
**As Required				

INTAKE & EXHAUST

INTAKE and TURBOCHARGER M668A

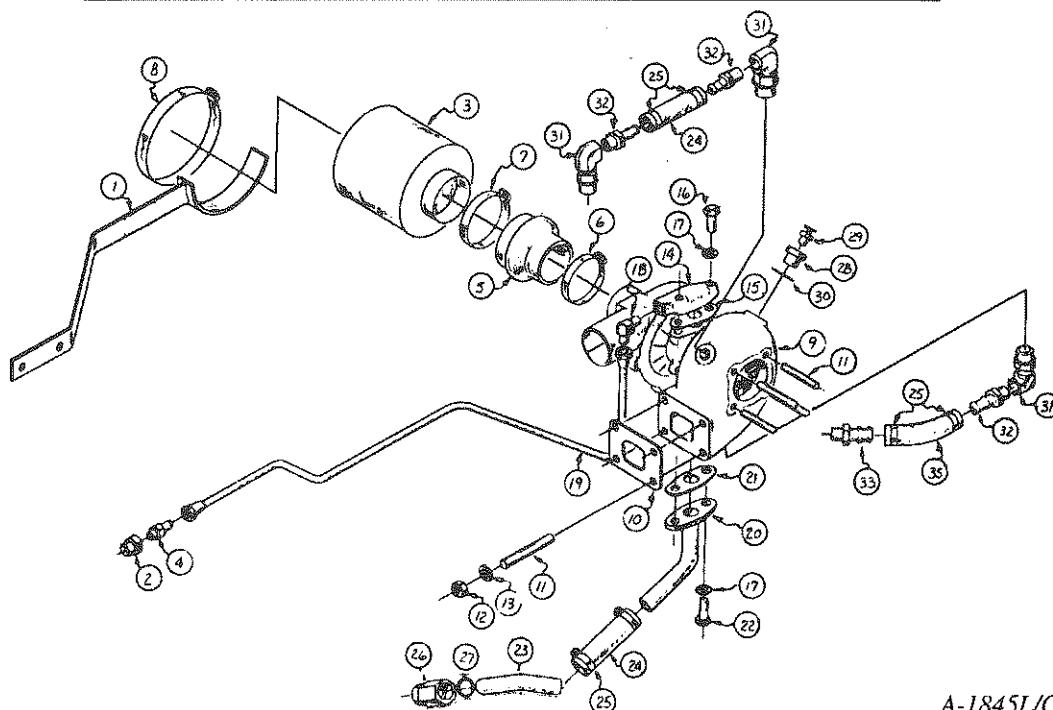


A-4511 & A5841/C-2404

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	23-21606	1	Bracket	-
2	21-31602	1	Spacer	-
3	24-21000	1	Air Filter	-
4	21-00035	1	Male Elbow, 45°, Steel 1/4NPT x 3/8-37T (single Oil Filter)	-
	21-52800	1	Male Connector, Steel 3/8NPT x 3/8-37T (twin Oil Filters)	-
5	18-21004	1	Hump Hose (with vent hole)	-
6	19-00036	1	Hose Clamp #36	-
7	19-00072	1	Hose Clamp #72	-
8	19-00128	1	Hose Clamp #128	-
9	30-31426	1	Turbocharger 1800RPM (see parts detail)	-
	30-21400	1	Turbocharger 1500RPM (see parts detail)	-
10	11-31401	2	Gasket	-
11	13-31600	4	Stud M10 x 1.5 x 65mm	-
12	14-00817	4	Hex Nut, Stainless Steel M10 x 1.5	-
13	15-00804	4	Wave Washer M10	-
14	R43928	1	Oil Feed Adapter	-
15	11-31012	1	Gasket	-
16	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40mm	-
17	15-00702	4	Lock Washer M8	-
18	21-00606	1	Male Elbow 90°, Steel 3/8NPT x 3/8-37T	-
19	27-31622	1	Tube Assembly (with single Oil Filter)	-
	27-01600	1	Tube Assembly (with twin Oil Filter)	-
20	27-31602	1	Oil Return Pipe, Upper Half	-
21	11-31031	1	Gasket	-
22	12-00712	2	Capscrew, Hex Head M8 x 1.25 x 25mm	-
23	27-31402	1	Oil Return Pipe, Lower Half	-
24	19-00012	2	Hose Clamp #12	-
25	R41285	1	Adapter, O-Ring Seal x 1/2NPT	-
26	16-01000	1	O-Ring	-
27	21-49999	1	Adapter 1/4NPTF x 5/8 O-Ring Port	-
28	21-10002	1	Drain Cock, Brass 1/4NPT	-
29	18-11012	1	Hose 3/4"ID x 4-3/4"	-

INTAKE & EXHAUST

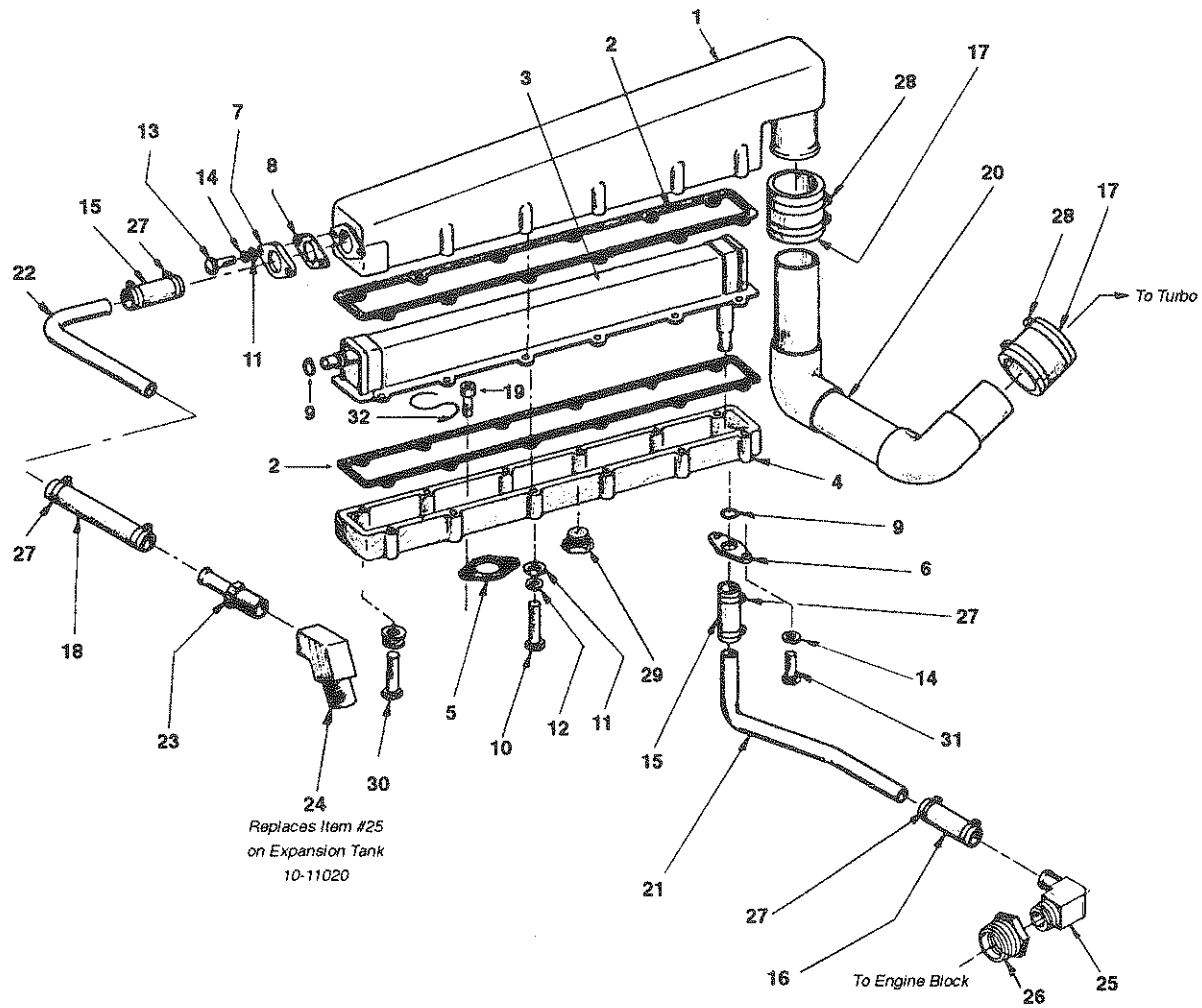
INTAKE and TURBOCHARGER L668A



A-1845L/C-1566C

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	23-21604	1	Bracket	-
3	24-21000	1	Air Filter	-
4	21-52800	1	Male Connector, Steel 3/8NPT x 3/8-37T	-
5	18-21027	**	Hump Hose (without vent hole)	-
	18-21003	**	Hump Hose (with vent hole)	-
6	19-00044	1	Hose Clamp #44	-
7	19-00072	1	Hose Clamp #72	-
8	19-00128	1	Hose Clamp #128	-
9	30-31627	1	Turbocharger (see parts detail)	-
10	11-31615	1	Gaske	-
11	13-00814	8	Stud M10 x 1.5 x 30mm	-
12	14-00817	8	Hex Nut, Stainless Steel M10 x 1.5	-
13	15-00804	8	Wave Washer M10	-
14	R43928	1	Oil Feed Adapter	-
15	11-31012	1	Gasket	-
16	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40mm	-
17	15-00702	4	Lock Washer M8	-
18	21-00606	1	Male Elbow 90°, Steel 3/8NPT x 3/8-37T	-
19	27-01600	1	Tube Assembly, Turbo Oil Supply	-
20	27-31602	1	Oil Pipe, Upper Half	-
21	11-31031	1	Gasket	-
22	12-00712	2	Capscrew, Hex Head M8 x 1.25 x 25mm	-
23	27-31402	1	Oil Return Pipe, Lower Half	-
24	18-11012	2	Hose 3/4"ID x 4-3/4"	-
25	19-00012	6	Hose Clamp #12	-
26	R41285	1	Adapter, O-Ring Seal x 1/2NPT	-
27	16-01000	1	O-Ring	-
28	21-49999	1	Adapter 1/4NPTF x 5/8 O-Ring Port	-
29	21-10002	1	Drain Cock 1/4NPT	-
31	21-03459	3	Female Elbow, 90°, Steel 5/8 O-Ring Port x 1/2NPT	-
32	21-00129	4	Male Connector, Brass 1/2NPT x 3/4 Hose Barb	-
33	21-11902	2	Male Connector, Brass 3/4NPT x 3/4 Hose Barb	-
35	18-11904	1	Hose 3/4" Pre-formed	-
		**	As Required	

AFTERCOOLER ASSEMBLY M668A

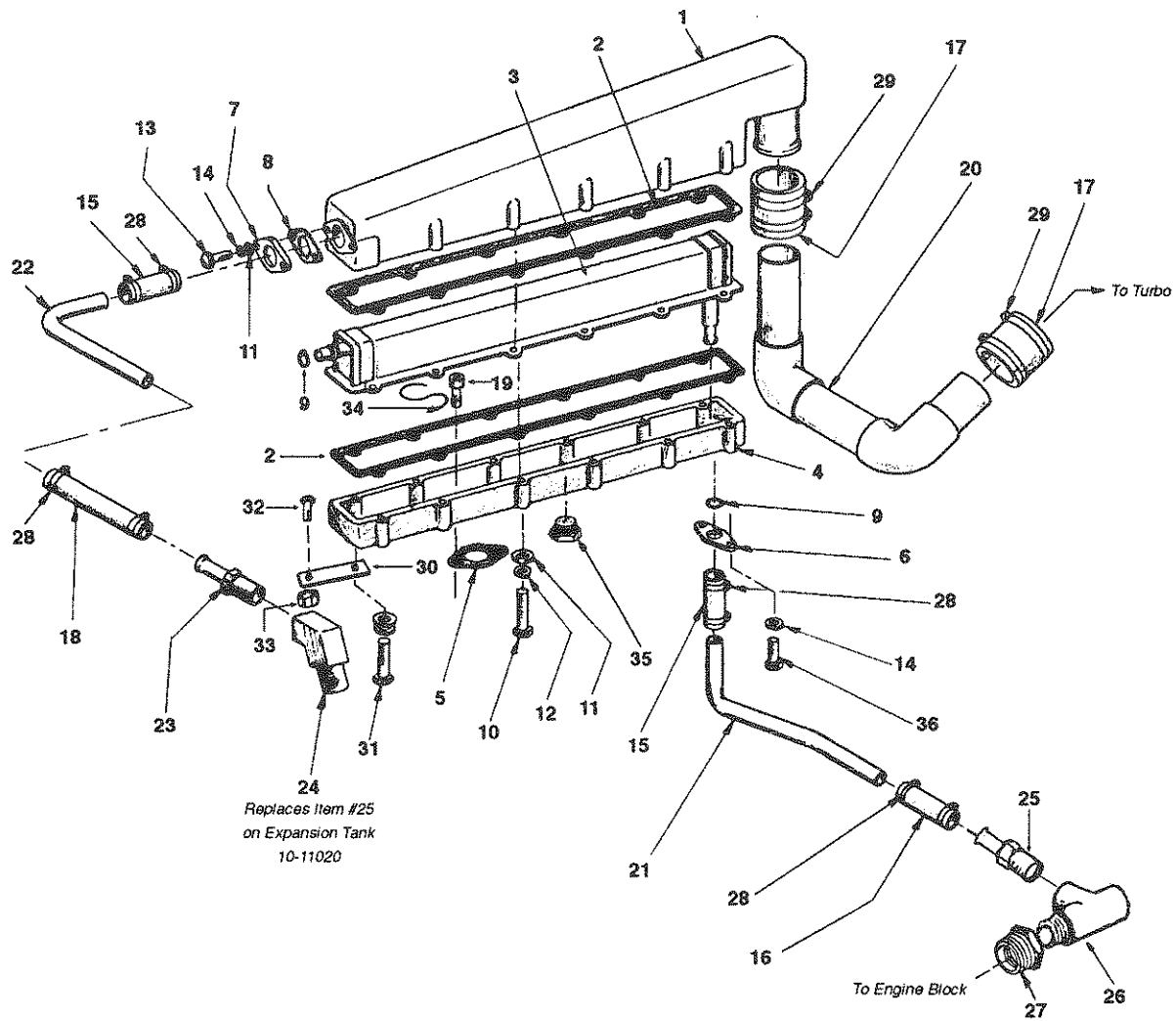


INTAKE & EXHAUST

AFTERCOOLER ASSEMBLY M668A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-22404	1	Aftercooler Cover	-
2	11-22599	2	Gasket	-
3	20-22500	1	Aftercooler Element	-
4	10-21608	1	Intake Manifold	-
5	11-21011	1	Gasket	-
6	R50400	1	Flange	-
7	R47314	1	Flange	-
8	11-21011	1	Gasket	-
9	R52811	2	O-Ring	-
10	12-00218	8	Capscrew, Hex Head 5/16-18 x 2-1/2"	-
11	15-00221	14	Flat Washer 5/16 SAE	-
12	15-00202	12	Lock Washer, Helical 5/16	-
13	12-00213	2	Capscrew, Hex Head 5/16-18 x 1-1/4"	-
14	15-00202	4	Lock Washer, Helical 5/16	-
15	18-00753	2	Hose 3/4"ID x 2-1/4"	-
16	18-12501	1	Hose 3/4"ID x 3"	-
17	R56551	2	Hose 2"ID x 2-1/2"	-
18	18-11010	1	Hose 3/4"ID x 4-1/4"	-
19	12-00036	3	Capscrew, Socket Head 3/8-16 x 1"	-
20	27-21603	1	Tube, Air Inlet	-
21	27-21604	1	Tube, Coolant Inlet	-
22	27-21605	1	Tube, Coolant Outlet	-
23	21-00129	1	Male Connector, Brass 1/2NPT x 3/4HB	-
24	21-00128	1	St. Elbow, 45°, Steel 1/2NPT x 1/2NPT	-
25	21-31902	1	Male Elbow, 90°, Brass 1/2NPT x 3/4HB	-
26	21-41101	1	Bushing, Brass 1"NPT x 1/2NPT	-
27	19-00012	8	Hose Clamp #12	-
28	19-00032	4	Hose Clamp #32	-
29	21-31624	1	Plug, Hex Head, Brass 1/4NPT	-
30	12-00216	2	Capscrew, Hex Head 5/16-18 x 2"	-
31	12-00219	2	Capscrew, Hex Head 5/16-18 x 2-3/4"	-
32	42-00011	**	Safety Wire, Stainless Steel, .032	-
			**As Required	

AFTERCOOLER ASSEMBLY L668A



A1844C/C-1565C

INTAKE & EXHAUST

AFTERCOOLER ASSEMBLY L668A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-22404	1	Aftercooler Cover	-
2	11-22599	2	Gasket	-
3	20-22500	1	Aftercooler Element	-
4	10-21608	1	Intake Manifold	-
5	11-21011	1	Gasket	-
6	R50400	1	Flange	-
7	R47314	1	Flange	-
8	11-21011	1	Gasket	-
9	16-52811	2	O-Ring	-
10	12-00218	8	Capscrew, Hex Head 5/16-18 x 2-1/2"	-
11	15-00221	14	Flat Washer 5/16 SAE	-
12	15-00202	12	Lock Washer, Helical 5/16	-
13	12-00213	2	Capscrew, Hex Head 5/16-18 x 1-1/4"	-
14	15-00202	4	Lock Washer, Helical 5/16	-
15	18-00753	2	Hose 3/4"ID x 2-1/4"	-
16	18-12501	1	Hose 3/4"ID x 3"	-
17	R56551	2	Hose 2"ID x 2-1/2"	-
18	18-11010	1	Hose 3/4"ID x 4-1/4"	-
19	12-00036	3	Capscrew, Socket Head 3/8-16 x 1"	-
20	27-21603	1	Tube, Air Inlet	-
21	27-21604	1	Tube, Coolant Inlet	-
22	27-21605	1	Tube, Coolant Outlet	-
23	21-00129	1	Male Connector, Brass 1/2NPT x 3/4 Hose Barb	-
24	21-00128	1	St. Elbow, 45°, Steel 1/2NPT x 1/2NPT	-
25	21-11902	1	Male Elbow, 90°, Brass 3/4NPT x 3/4 Hose Barb	-
26	21-42210	1	Male Tee 3/4NPT	-
27	21-73202	1	Bushing, Steel 1"NPT x 3/4NPT	-
28	19-00012	8	Hose Clamp #12	-
29	19-00032	4	Hose Clamp #32	-
30	23-41600	1	Bracket	-
31	12-00216	2	Capscrew, Hex Head 5/16-18 x 2"	-
32	12-00311	1	Capscrew, Hex Head 3/4-16 x 3/4"	-
33	14-00311	1	Hex Nut, Nylock 3/8-16"	-
34	42-00011	**	Safety Wire, Stainless Steel, .032	-
35	21-31624	1	Plug, Hex Brass, 1/4"NPT	-
36	12-00219	2	Capscrew, Hex Head, 5/16-18 x 2-3/4"	-
**As Required				

INTAKE and FILTER NL668D & C-Series

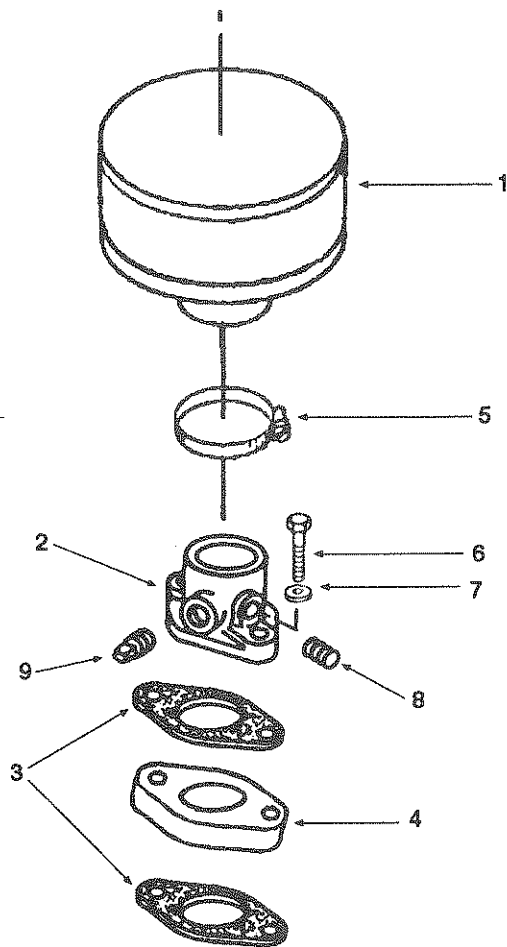


Figure "A"

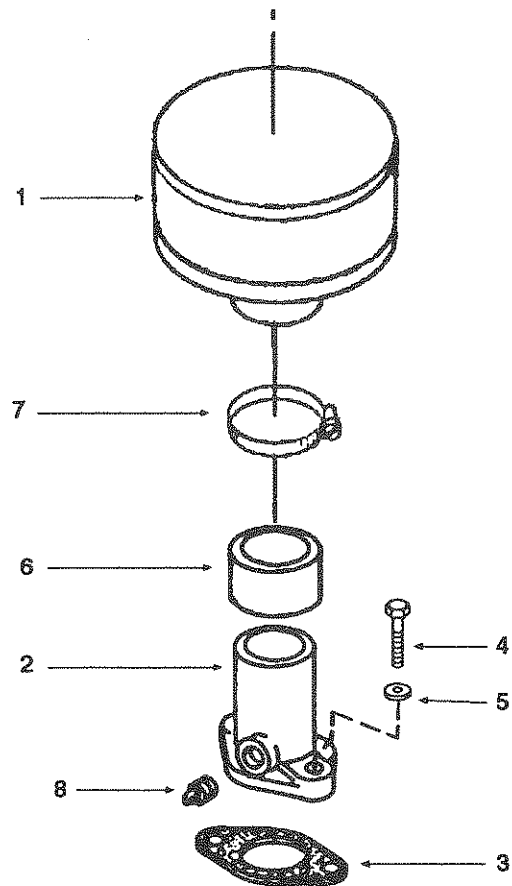
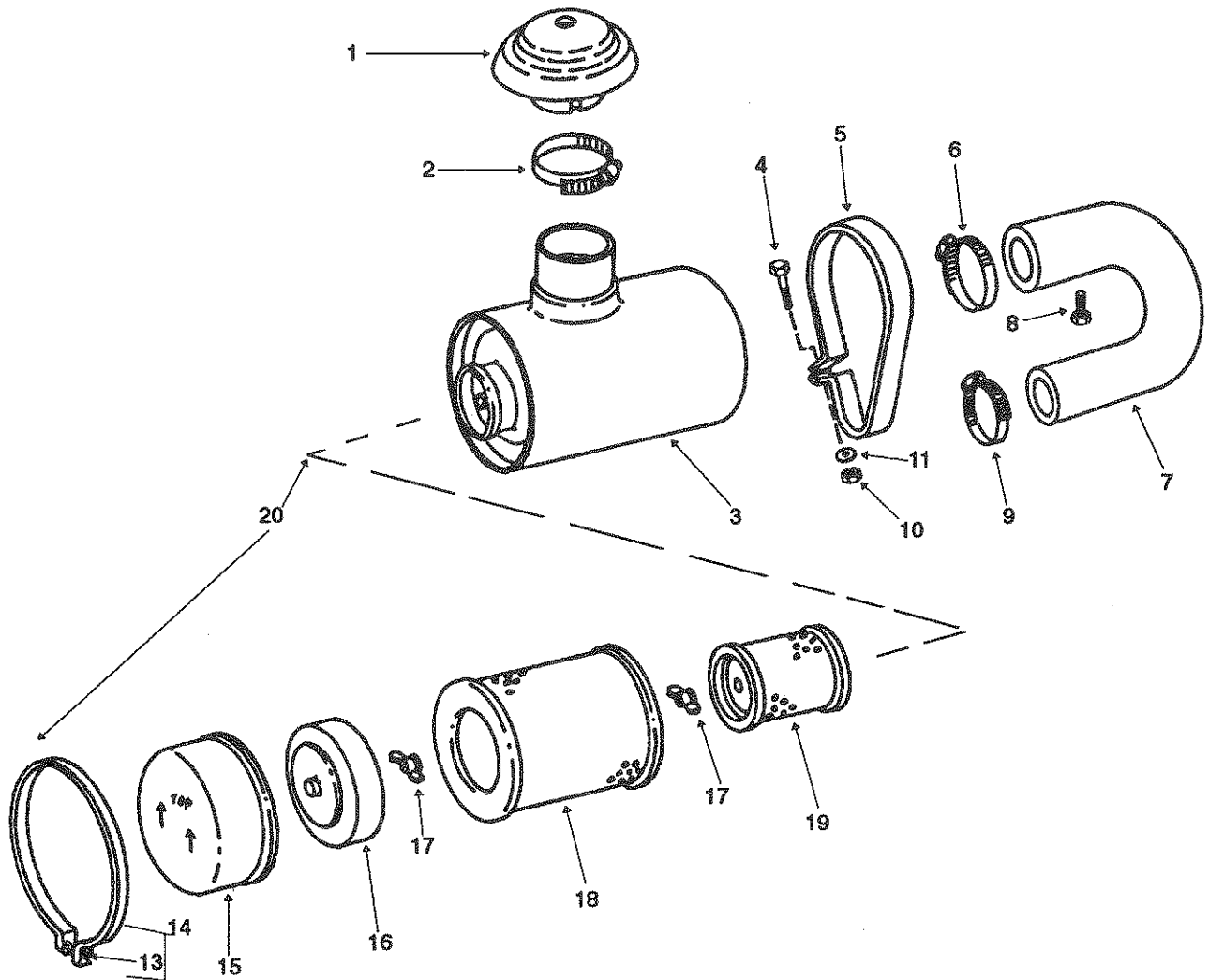


Figure "B"

A6511 & A5550

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
<i>Figure "A" Aluminum Air Inlet</i>				
1	24-20001	1	Air Filter	-
2	T31948	1	Air Inlet	-
3	11-21011	1	Gasket	-
4	28-21001	1	Spacer Plate	-
5	19-00044	1	Hose Clamp #44	-
6	12-00315	2	Capscrew, Hex Head 3/8-16 x 1-3/4"	-
7	15-00302	2	Lock Washer, Helical 3/8	-
8	21-00012	1	Plug, Hex Head, Brass 1/8NPT	-
9	21-31003	1	Plug, Hex Head, Brass 3/8NPT	-
<i>Figure "B" Cast Iron Air Inlet</i>				
1	24-20001	1	Air Filter	-
2	18-21005	1	Hose 2-1/4"ID x 1-1/2"	-
3	19-00044	1	Hose Clamp #44	-
4	T25829	1	Air Inlet	-
5	21-31003	1	Plug, Hex Head Brass 3/8NPT	-
6	11-21011	1	Gasket	-
7	12-00313	2	Cap Screw, Hex Head 3/8-16 x 1-1/4"	-
8	15-00302	2	Lock Washer, Helical 3/8	-

INTAKE and FILTER NL668T & QT

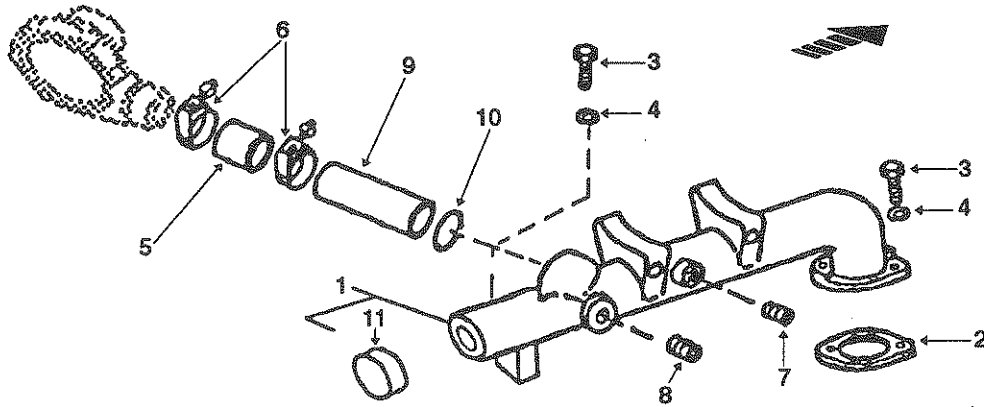


A6511 & A5550

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	AR94141	1	Air Filter Assembly (includes all Keys)	-
1	AR72337	1	Cap	-
2	C16054	1	Clamp	-
3	AR99578	1	Air Cleaner (includes Figs 13-20)	-
4	12-00216	2	Capscrew, Hex Head 5/16-18 x 2"	-
5	T90155	2	Clamp	-
6	AR21842	1	Hose Clamp	-
7	AT43866	1	Hose	-
8	21-00012	1	Plug, Hex Head, Brass 1/8NPT	-
9	AT25242	1	Hose Clamp	-
10	14-00212	2	Lock Nut 5/16-18	-
11	15-00301	2	Flat Washer 3/8"	-
12	R56902	1	Label	-
13	R28633	1	Bolt	-
14	AR40146	1	Clamp	-
15	AH21420	1	Cap	-
16	R36698	1	Cover	-
17	AH20849	2	Wing Nut	-
18	AT35155	1	Filter Element	-
19	AT31227	1	Filter Element	-
20		1	Housing (not available separately)	-

INTAKE & EXHAUST

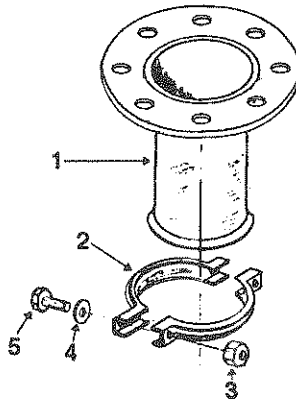
INTAKE MANIFOLD NL668T & QT



A6222/TP40591

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE48129	1	Intake Manifold (includes Key 11)	-
2	11-21011	1	Gasket	-
3	12-00313	3	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
4	15-00302	3	Lock Washer, Helical 3/8	-
5	R56551	1	Hose 2"ID x 2-1/2"	-
6	19-00032	2	Hose Clamp #32	-
7	21-00012	1	Plug, Hex Head Brass 1/8NPT	-
8	21-31003	1	Plug, Hex Head Brass 3/8NPT	-
9	R56904	1	Tube, Air Intake	-
10	R56905	1	O-Ring	-
11	R107413	1	Plug	-

4" EXHAUST ADAPTER NL668T & QT

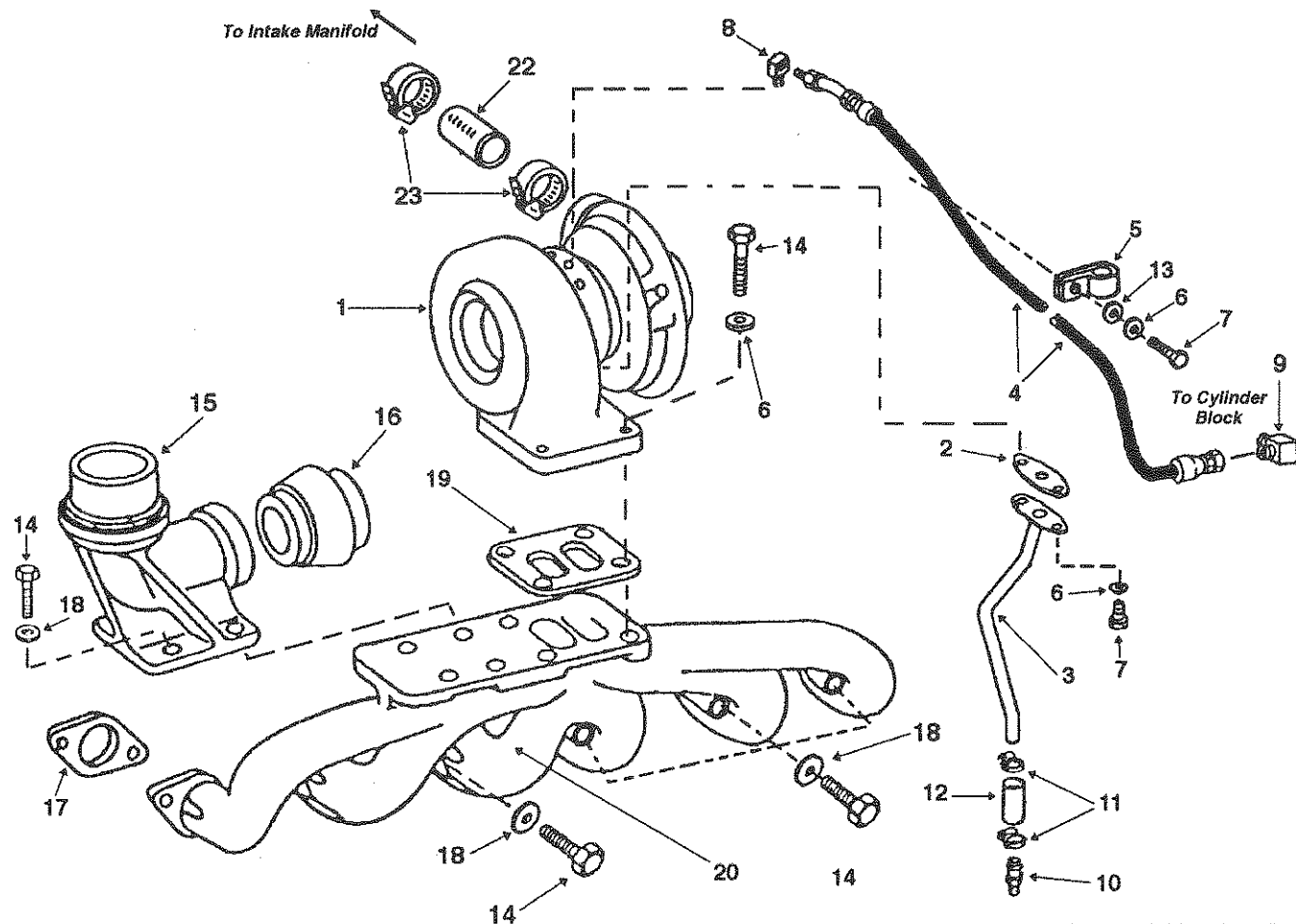


A1088/B-1566

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	31-31066	1	4" Exhaust Adapter	-
2	AT27164	2	1/2 Clamp	-
3	14-00311	2	Hex Nut 3/8-16	-
4	15-00321	4	Flat Washer, SAE 3/8"	-
5	12-00310	2	Capscrew, Hex Head 3/8-16 x 3"	-
6	12-00914	8	Capscrew, Hex Head 5/8-11 x 1-3/4"	-
7	15-00902	8	Lock Washer, Helical 5/8	-
8	14-00911	8	Hex Nut 5/8-11	-
9	11-31099	1	Gasket	-

INTAKE & EXHAUST

TURBOCHARGER and EXHAUST MANIFOLD NL667T & QT

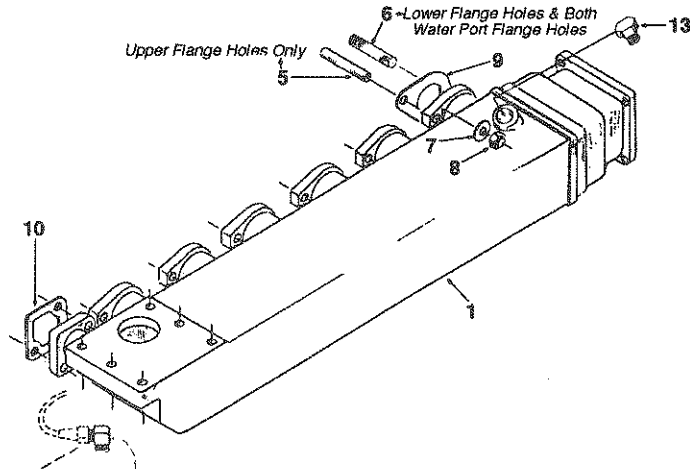


A1124, A6624/A-1152

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE44802	1	Turbocharger 1800RPM (includes Key 8)	-
	RE26342	1	Turbocharger 1200RPM (includes Key 8)	-
2	11-31031	1	Gasket	-
3	RE33058	1	Tube, Turbo Oil Return	-
4	RE45420	1	Hose Assembly, Turbo Oil Supply	-
5	19-41900	1	Adelle Clamp	-
6	15-00302	7	Lock Washer, Helical 3/8	-
7	12-00312	3	Capscrew, Hex Head 3/8-16 x 1"	-
8	T11180	1	Elbow 90° 1/4NPT x 3/8-45T Inverted Flare	-
9	21-00035	1	Male Elbow, Steel 1/4NPT x 3/8-37T	-
10	R39503	1	Male Connection, Steel 1/2NPT x 3/4HB	-
11	19-00012	2	Hose Clamp #12	-
12	18-11010	1	Hose 3/4"ID x 4-1/4" Silicon	-
13	15-00301	1	Flat Washer 3/8	-
14	12-00313	17	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
15	R57270	1	Exhaust Elbow	-
16	R43724	1	Adapter	-
17	11-31011	6	Gasket	-
18	15-00300	20	Flat Washer	-
19	R89879	1	Gasket	-
20	T30818	1	Exhaust Manifold	-
21	12-00300	3	Capscrew, Hex Head 3/8-16 x 3-1/2"	-
22	R56551	1	Hose 2"ID x 2-1/2"	-
23	19-00032	2	Hose Clamp #32	-

INTAKE & EXHAUST

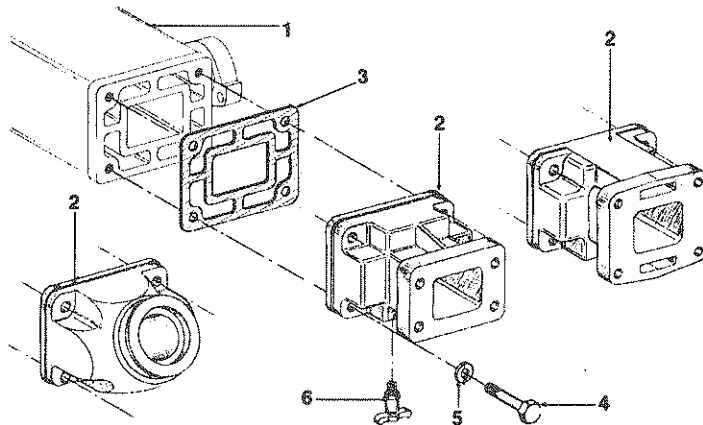
EXHAUST MANIFOLD – MARINE APPLICATION



A2736, A2735, A905, A478
B-2058, B-1746

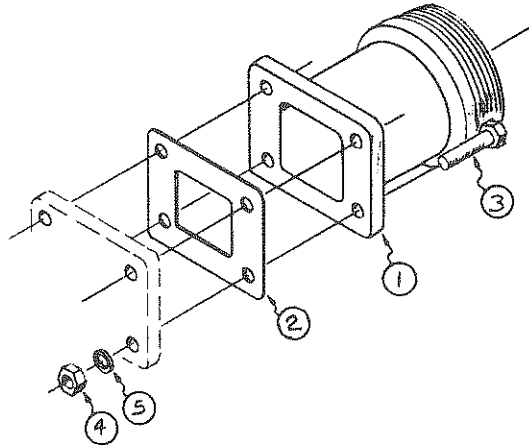
KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-31502D	1	Exhaust Manifold Sub-Assembly with Dry Flange*	-
	10-31502E	1	Exhaust Manifold Sub-Assembly with Wet Elbow Adapter*	-
	10-31502W	1	Exhaust Manifold Sub-Assembly with Wet Turbo Flange*	-
5	13-00337	1	Stud 3/8-16 x 3/8-24 x 2" (special)	-
6	13-00336	1	Stud 3/8-16 x 3/8-24 x 2"	-
7	15-00300	14	Flat Washer (special)	-
8	14-00321	14	Hex Nut 3/8-24	-
9	11-31011	6	Gasket	-
10	11-11611	1	Gasket	-
13	21-12502	1	Plug, Hex Head, Steel 5/8 O-Ring Port (7/8-14)	-
*See exploded view below for components				

EXHAUST MANIFOLD and FLANGE – MARINE APPLICATION



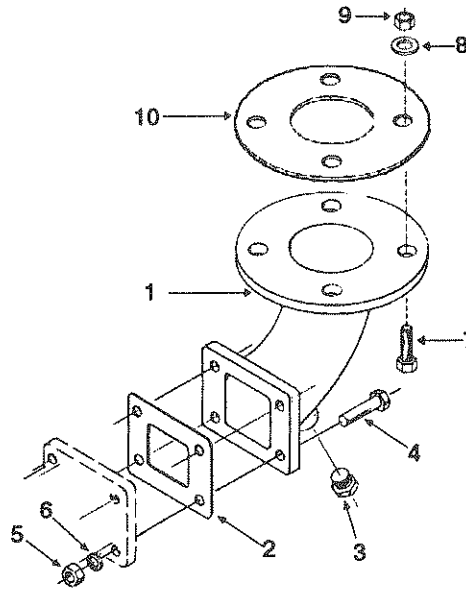
A2730, A2731, A2832
C-2648

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-31502	1	Exhaust Manifold	-
2	10-31513	1	Flange, Dry	-
	10-31506	1	Flange, Wet	-
	31-31012	1	Adapter, Wet Exhaust Elbow	-
3	11-30013	1	Gasket	-
4	12-00414	1	Capscrew, Hex Head 7/16-14 x 1-1/2"	-
5	15-00402	1	Lock Washer, Helical 7/16	-
6	21-10001	1	Drain Cock, Brass 1/8NPT	-
7	21-12502	1	Plug, Hex Head, Steel 5/8 O-Ring Port (7/8-14)	-

EXHAUST ADAPTER L-M668D, Q & C-Series


A459C/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	-

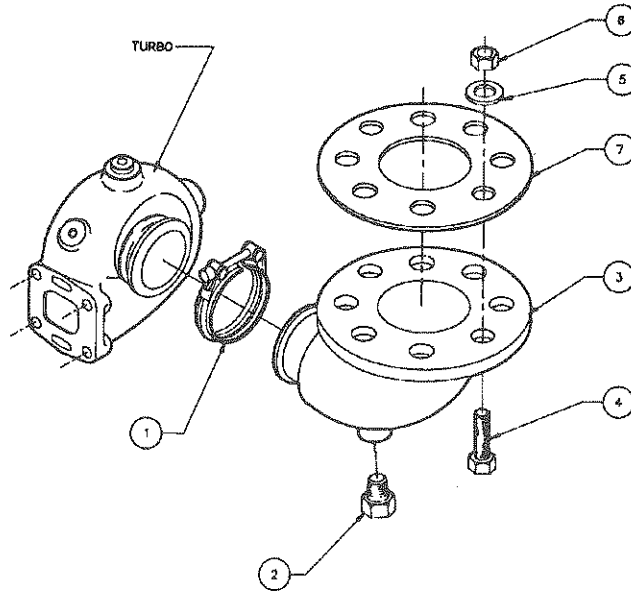
DRY EXHAUST ELBOW L-M668D, Q & C-Series


A457D/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 3/8NPT	-
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	-

INTAKE & EXHAUST

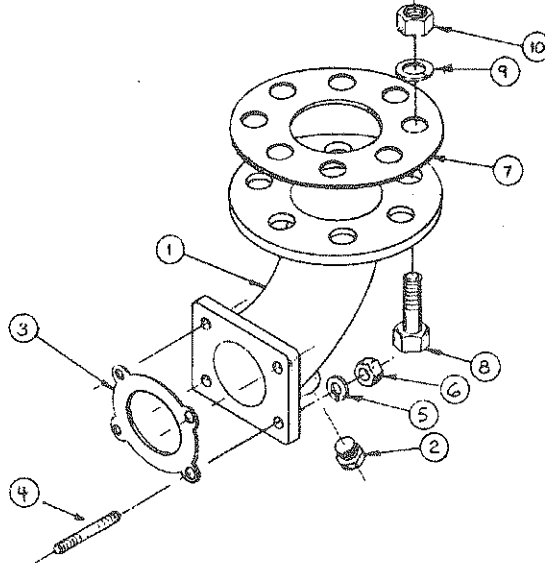
DRY EXHAUST ELBOW M668T, TQ & C-Series



A6337/B-4638

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	19-31401	1	V-Clamp	-
2	21-31002	1	Plug, Square Head Brass 3/8NPT	-
3	27-31407	1	Dry Exhaust Elbow 3"	-
4	12-00914	8	Capscrew, Hex Head 5/8-11 x 1-3/4"	-
5	15-00902	8	Lock Washer, Helical 5/8	-
6	14-00911	8	Hex Nut 5/8-11	-
7	11-31099	1	Gasket	-

DRY EXHAUST ELBOW L668T & A

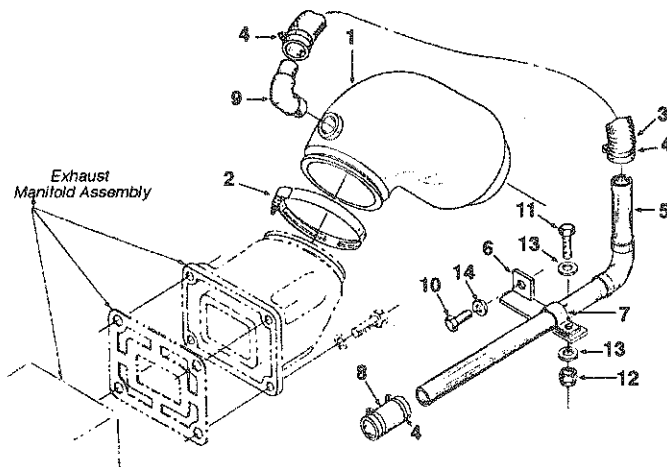


A1102C/B-2614A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	27-32511	1	Dry Exhaust Elbow 4"	-
2	21-31002	1	Plug, Square Head Brass 3/8NPT	-
3	11-31635	1	Gasket	-
4	13-00814	4	Stud M10 x 1.5 x 30mm	-
5	15-00804	4	Wave Washer M10	-
6	14-00817	4	Hex Nut, Stainless Steel M10 x 1.5mm	-
7	11-31096	1	Gasket	-
8	12-01216	8	Capscrew, Hex Head 3/4-10 x 2"	-
9	15-01202	8	Lock Washer, Helical 3/4	-
10	14-01211	8	Hex Nut 3/4-10	-

WET EXHAUST ELBOW MARINE GEN SET APPLICATION

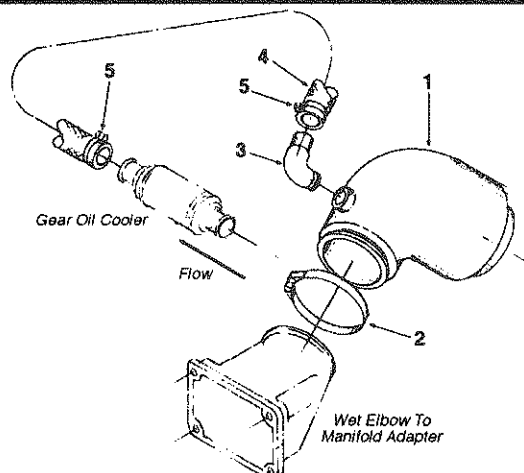
Without Turbocharger



A886F/B-1728C

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	27-31412	1	Wet Exhaust Elbow 4"	-
2	19-31401	1	V-Clamp (all)	-
3	18-11604	1	Hose 1-1/8 x 23"	-
4	19-00016	1	Hose Clamp #16	-
5	27-11601	1	Tube	-
6	23-62516	1	Bracket	-
7	19-71031	1	Adelle Clamp	-
8	18-11607	1	Hose 1-1/8 x 2-1/2"	-
9	21-31006	1	Male Elbow 90°, Copper 1"NPT x 1-1/8" HB	-
10	12-00314	1	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
11	12-00312	1	Capscrew, Hex Head 3/8-16 x 1"	-
12	14-00312	1	Nut, Nylock 3/8-16	-
13	15-00301	2	Flat Washer 3/8"	-
14	15-00302	1	Lock Washer 3/8"	-

WET EXHAUST ELBOW L668D



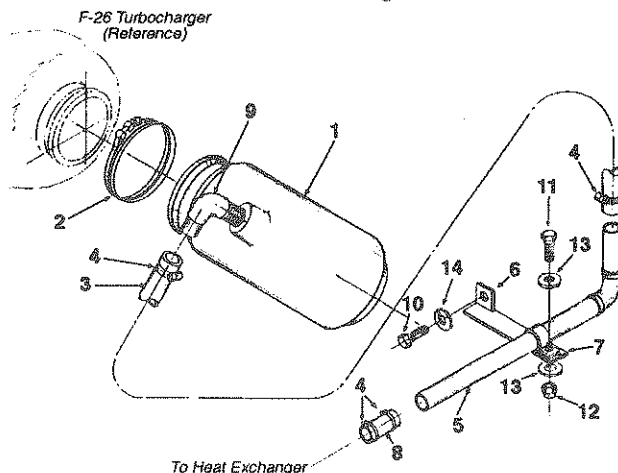
A3023/B-2919

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	-

INTAKE & EXHAUST

WET EXHAUST ELBOW – MARINE GEN SET APPLICATION

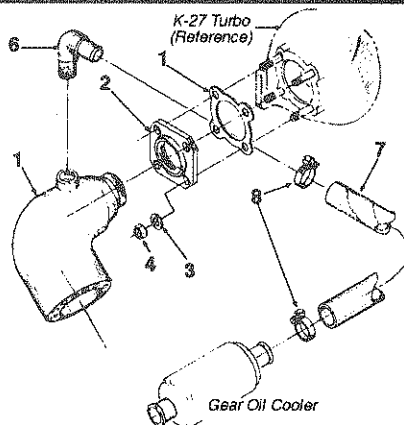
With Turbocharger



A943A/B-2628

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	27-31412	1	Wet Exhaust Elbow 4"	-
2	19-31401	1	V-Clamp (all)	-
3	18-11604	1	Hose 1-1/8 x 23"	-
4	19-00016	1	Hose Clamp #16	-
5	27-11603	1	Tube	-
6	23-62516	1	Bracket	-
7	19-71031	1	Adelle Clamp	-
8	18-11607	1	Hose 1-1/8 x 1/1/2"	-
9	21-31006	1	Male Elbow 90°, Copper, 1"NPT x 1-1/8" HB	-
10	12-00314	1	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
11	12-00312	1	Capscrew, Hex Head 3/8-16 x 1"	-
12	14-00312	1	Nut, Nylock 3/8-16	-
13	15-00301	2	Flat Washer 3/8"	-
14	15-00302	1	Lock Washer 3/8"	-

WET EXHAUST ELBOW L668T & A

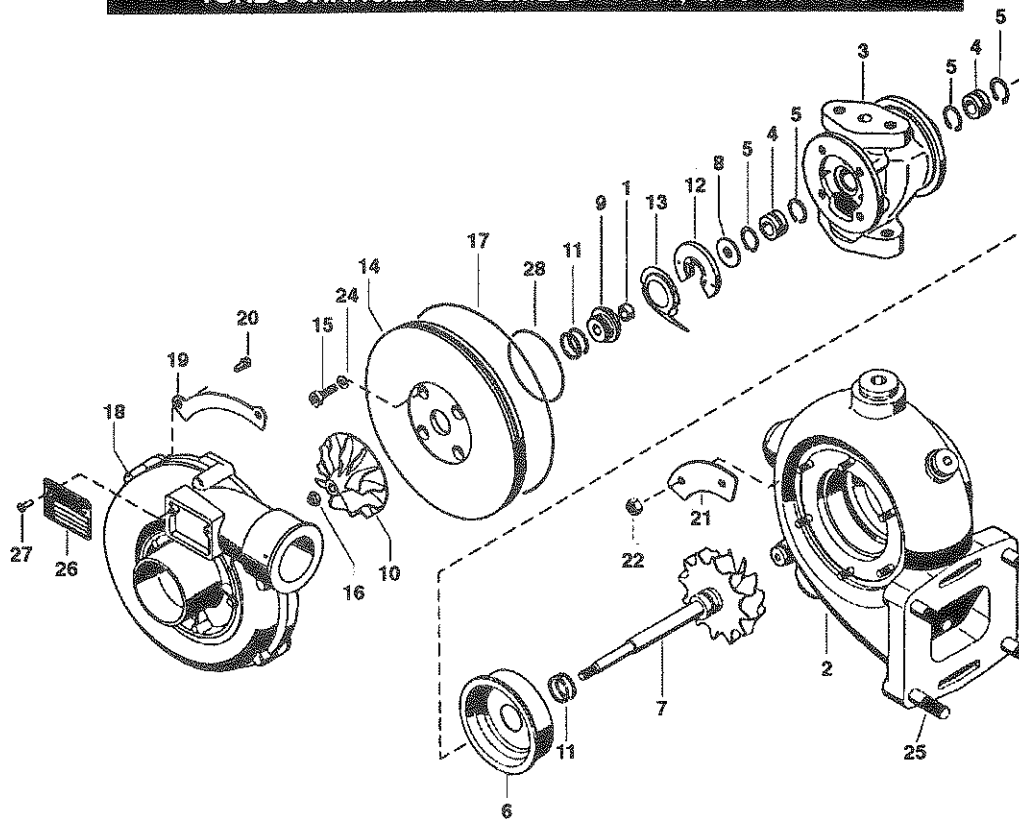


A3014M/C-1866

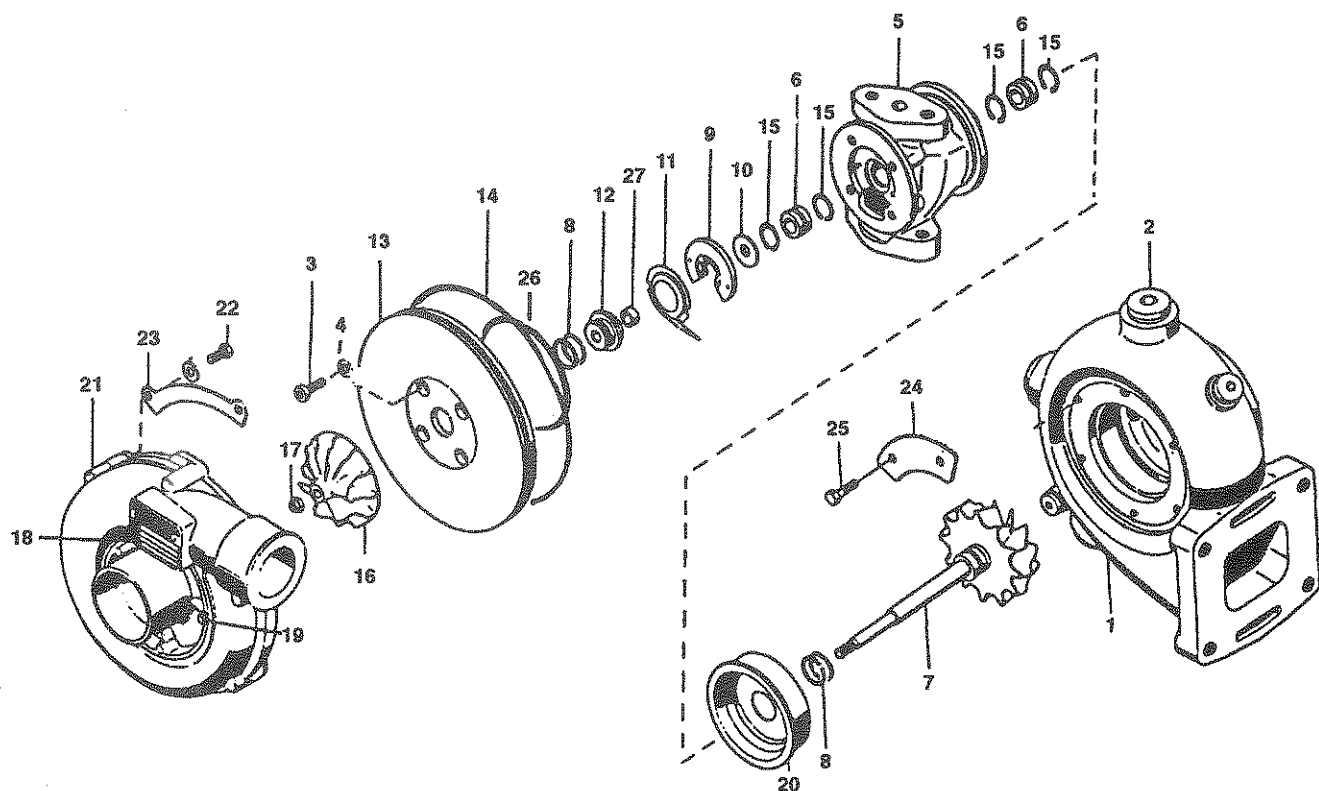
KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	27-31612	1	Wet Exhaust Elbow 5"	-
2	27-31613	1	Flange	-
3	11-31635	1	Gasket	-
4	14-00817	4	Hex Nut M10 x 1.5 Stainless Steel	-
5	15-00804	4	Wavewasher M10	-
6	21-31008	1	Male Elbow 90°, Copper 1-1/4"NPT x 1-1/4"HB	-
7	18-31605	1	Hose 1-1/4"ID x 32" Wire Reinforced	-
8	19-00016	2	Hose Clamp #16	-

INTAKE & EXHAUST

TURBOCHARGER ASSEMBLY M668T, QT & C-Series



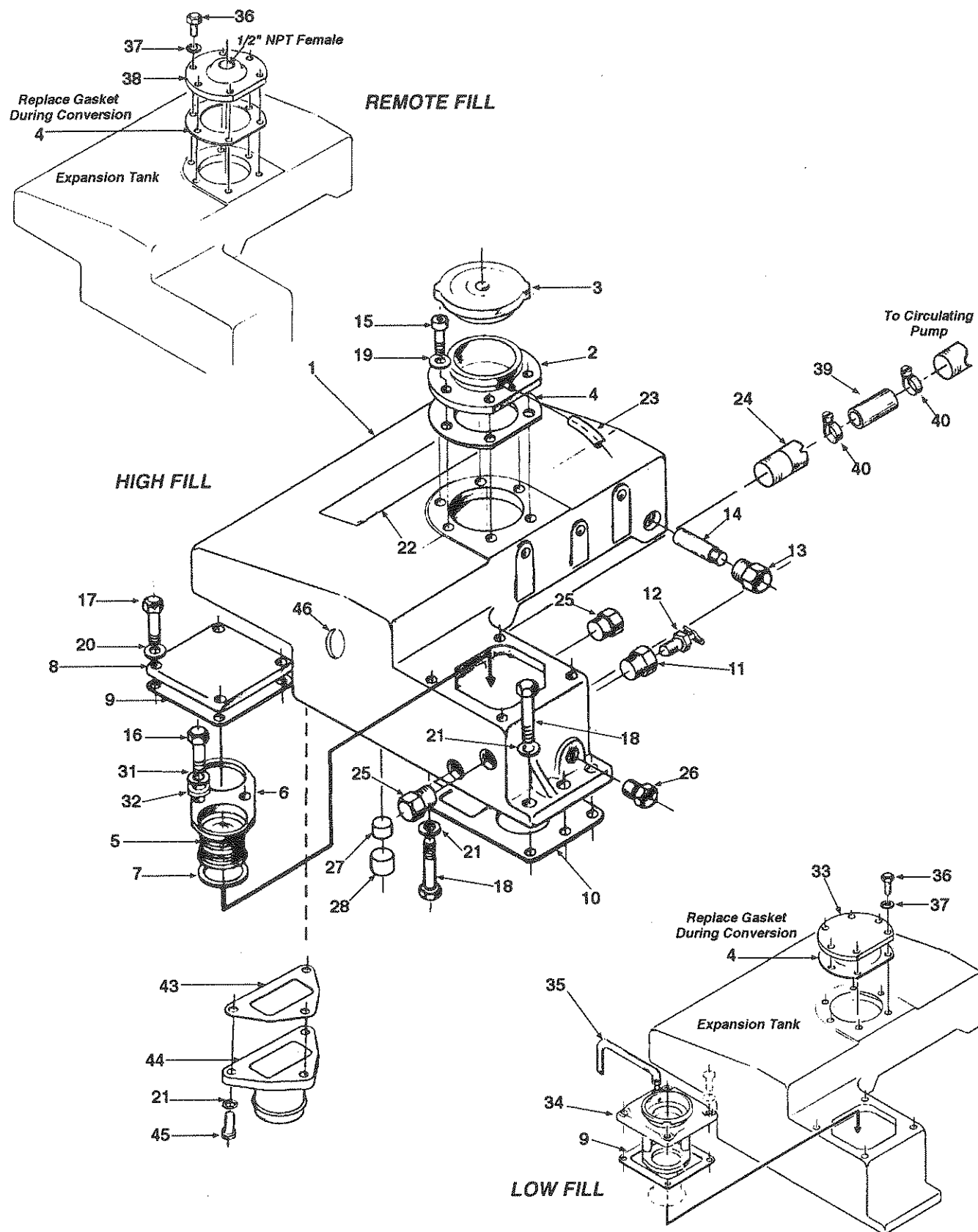
KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
∞	30-21400	1	Turbocharger Assembly (ID Tag #5326 970 60 90 - includes all Keys)	-
∞	30-31426	1	Turbocharger Assembly (ID Tag #5326 970 64 93 - includes all Keys)	-
•	30-31430	1	Repair Kit (includes Keys 4, 5, 11-17, 19-22, 24 & 28)	-
1	30-31429	1	Spacer 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 Plate	-
13	30-31443	1	Oil Deflector	-
14	30-31444	1	Backing Plate	-
15	30-31445	4	Screw	-
16	30-31446	1	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	30-31449	6	Capscrew, Socket Head M6 x 1.0 x 14mm	-
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	Lock Washer M6	-
25	13-00814	4	Stud M10 x 1.5 x 30mm	-
26	30-31454	1	Plate	-
27	30-31455	2	Rivet	-
28	30-14828	1	O-Ring	-

TURBOCHARGER ASSEMBLY L668T & A


KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
∞	30-31627	1	Turbocharger (includes all Keys)	-
•	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	-
3	30-31658	4	Screw	-
4	30-31660	4	Washer	-
5	30-31633	1	Bearing Housing	-
6	30-31635	2	Bearing Bushing	-
7	30-31637	1	Shaft & Turbine Wheel Assembly	-
8	30-31638	4	Piston Ring	-
9	30-31639	1	Thrust Plate	-
10	30-31640	1	Thrust Ring	-
11	30-31641	1	Oil Deflector	-
12	30-31642	1	Ring Holder	-
13	30-31643	1	Cover	-
14	30-31644	1	O-Ring	-
15	30-31645	4	Lock Ring	-
16	30-31646	1	Compressor Wheel	-
17	30-31647	1	Nut	-
18	30-31648	1	Name Plate	-
19	30-31649	2	Screw	-
20	30-31659	1	Heat Shield	-
21	30-31629	1	Compressor Housing	-
22	30-31651	8	Bolt	-
23	30-31657	4	Clamp Ring	-
24	30-31654	3	Clamp	-
25	30-31655	6	Bolt	-
26	30-31661	1	O-Ring	-
27	30-31662	1	Sleeve	-

NOTES

EXPANSION TANK ASSEMBLY – MARINE APPLICATION



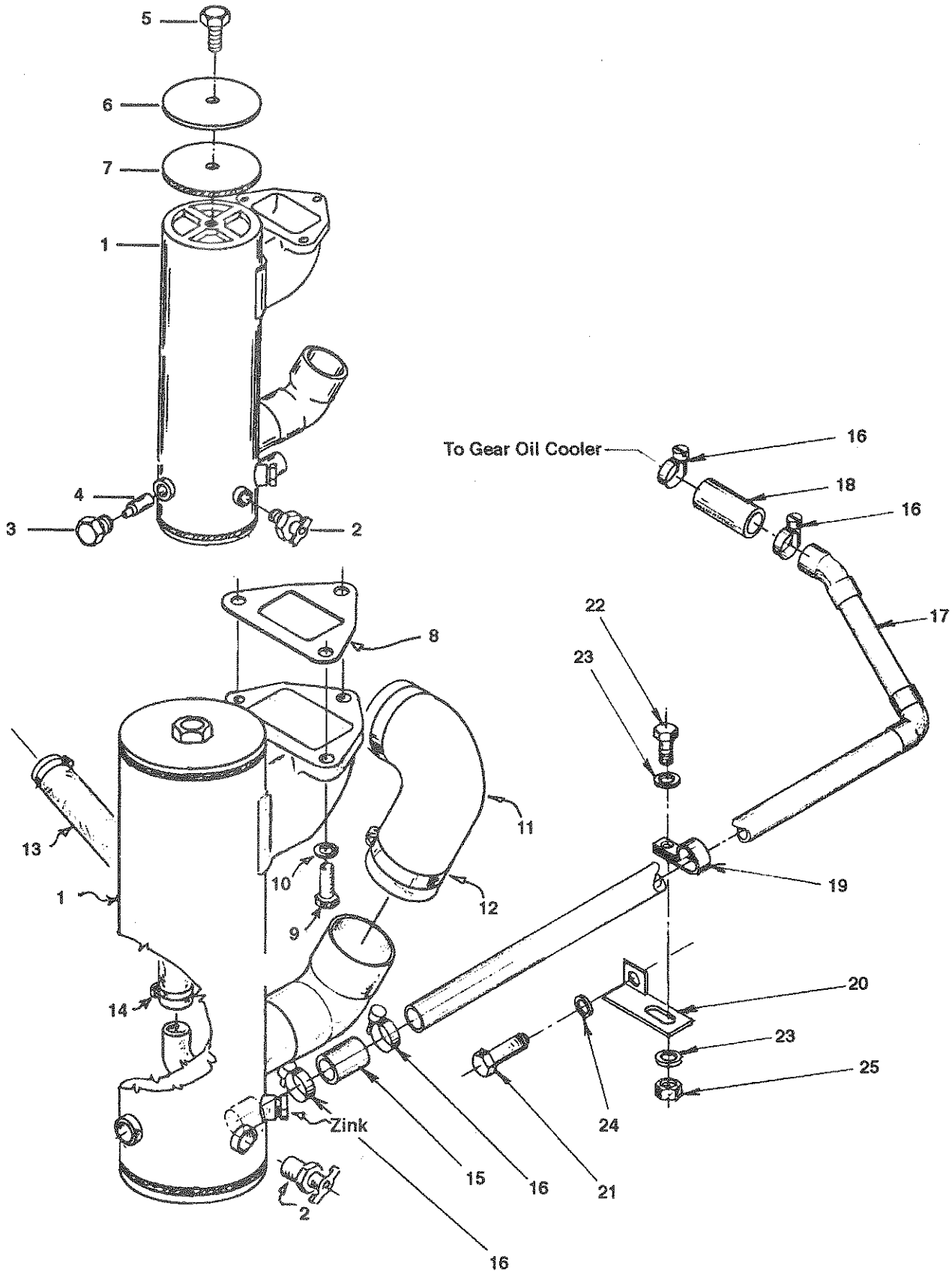
COOLING SYSTEM

EXPANSION TANK ASSEMBLY – MARINE APPLICATION

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-11022	1	Expansion Tank	-
2	10-11023	1	Filler Neck (Hi & Low Fill)	-
3	21-10007	1	Filler Cap 7 lb.	-
4	11-11022	1	Filler Neck Gasket (Hi & Low Fill)	-
5	35-11000	2	Thermostat	-
6	35-11004	1	Thermostat Retainer	-
7	11-10015	2	Gasket	-
8	10-11024	1	Thermostat Cover	-
9	11-11013	1	Gasket	-
10	11-11023	1	Manifold to Expansion Tank Gasket	-
11	21-00135	1	Brass Bushing 1/2 NPT x 1/4 NPT	-
12	21-10002	1	Drain Cock 1/4 NPT	-
13	21-10000	1	Plug 1/2 NPT x 7/16-14	-
14	21-10010	1	Zinc	-
15	12-20111	6	Capscrew, Socket Head 1/4-20 x 3/4"	-
16	12-00223	2	Capscrew, Hex Head Stainless Steel 5/16-18 x 3/4"	-
17	12-00212	4	Capscrew, Hex Head 5/16-18 x 1"	-
18	12-00313	2	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
19	15-00018	6	Lock Washer, High Collar 1/4	-
20	15-00202	4	Lock Washer 5/16"	-
21	15-00302	6	Lock Washer 3/8"	-
22	00-71000	1	Nameplate	-
	00-00001	1	Nameplate "Northern Lights"	-
23	18-12102	1	Overflow Hose 3/8" x 30"	-
24	21-31031	1	Special Nipple 3/4" NPT x 1-1/2"	-
25	21-00530	**	Brass Hex Plug 1/2 NPT	-
26	21-11002	1	Plug, Socket Head, 1/2 O-Ring Port - Early Production	-
	21-31008	1	Hex Plug 3/8 NPT (Late Production)	-
27	21-11003	1	Plug, Socket Head 1/2 NPT	-
28	21-11004	1	Plug, Socket Head 3/4 NPT	-
31	15-00222	2	Lock Washer, Stainless Steel 5/16	-
32	15-11000	2	Flat Washer, Stainless Steel 5/16	-
33	10-11025	1	Blocking Plate (low fill)	-
34	10-11031	1	Thermostat Cover (low fill)	-
35	18-00130	1	Hose 1/4" x 30" (low fill)	-
36	12-00111	6	Capscrew, Hex Head 1/4-20 x 3/4" (low fill)	-
37	15-00102	6	Lock Washer 1/4" (low fill, remote fill)	-
38	31-01002	1	Expansion tank adapter (remote fill)	-
39	18-11606	1	Hose	-
40	19-00020	2	Hose Clamp	-
41	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-
42	23-11401	1	Bracket	-
43	11-11043	1	Gasket	-
44	10-11006	1	Keel Cooling Connector (Keel Cooled Application Only)	-
45	12-00313	2	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
46	17-10001	4	Expansion Plug, Brass	-

COOLING SYSTEM

HEAT EXCHANGER - MARINE APPLICATION



A879F, A1767/B-1777

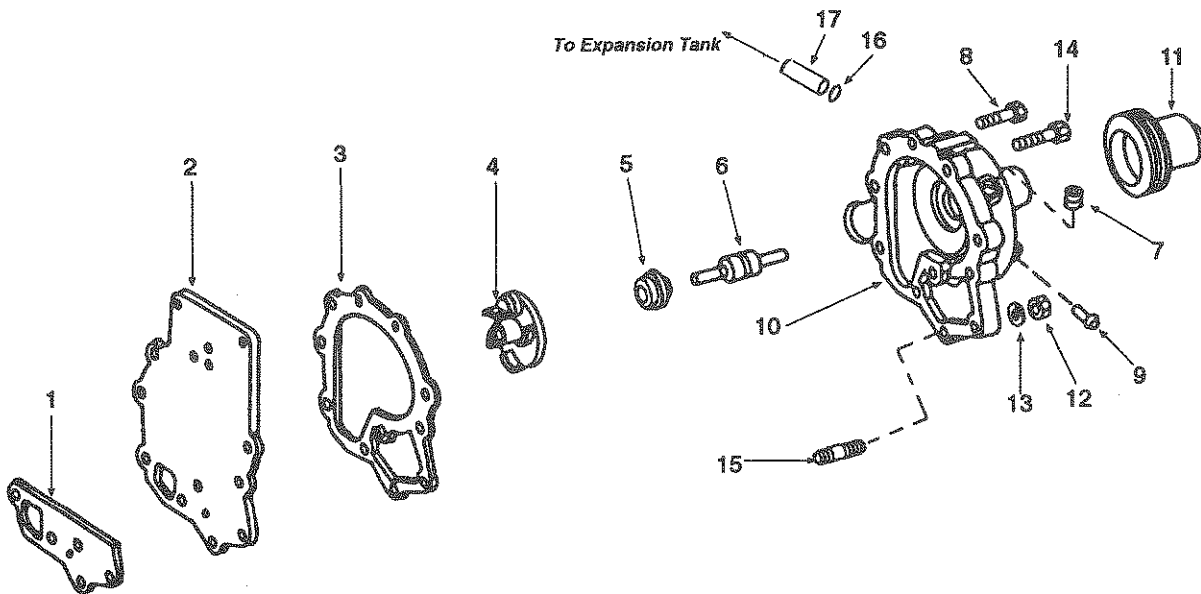
COOLING SYSTEM

HEAT EXCHANGER – MARINE APPLICATION

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	20-11617	1	Heat Exchanger, Cupronickel (M668, 65C-6&99C includes Keys 2-7)	-
	20-11616	1	Heat Exchanger, Copper (L668 - includes Keys 2-7)	-
2	21-10002	1	Drain Cock 1/4NPT	-
3	21-10000	2	Zinc Plug	-
4	21-10010	2	Zinc	-
5	12-11002	2	Capscrew, Hex Head 3/8-16 x 3/4" Stainless Steel	-
6	28-11603	2	End Cover	-
7	20-12522	2	Gasket	-
8	11-11043	1	Gasket	-
9	12-00313	3	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
10	15-00302	3	Lock Washer, Helical 3/8	-
11	18-11025	1	Hose	-
12	19-00036	2	Hose Clamp #36	-
13	18-11907	1	Hose 1-1/4" ID x 15"	-
14	19-00012	2	Hose Clamp #12	-
15	18-11607	1	Hose 1-1/8" ID x 2-1/2"	-
16	19-00016	**	Hose Clamp #16	-
17	27-61003	1	Tube	-
18	18-11003	1	Hose 1-1/4" ID x 2-1/2"	-
19	19-71031	1	Adelle Clamp	-
20	23-62506	1	Bracket	-
21	12-00314	1	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
22	12-00312	1	Capscrew, Hex Head 3/8-16 x 1"	-
23	15-00301	2	Flat Washer 3/8	-
24	15-00302	1	Lock Washer, Helical 3/8	-
25	14-00312	1	Hex Nut, Nylock 3/8-16	-
*Note: Keys 17 - 25 for Lugger only				
**As Required				

COOLING SYSTEM

CIRCULATING WATER PUMP ASSEMBLY



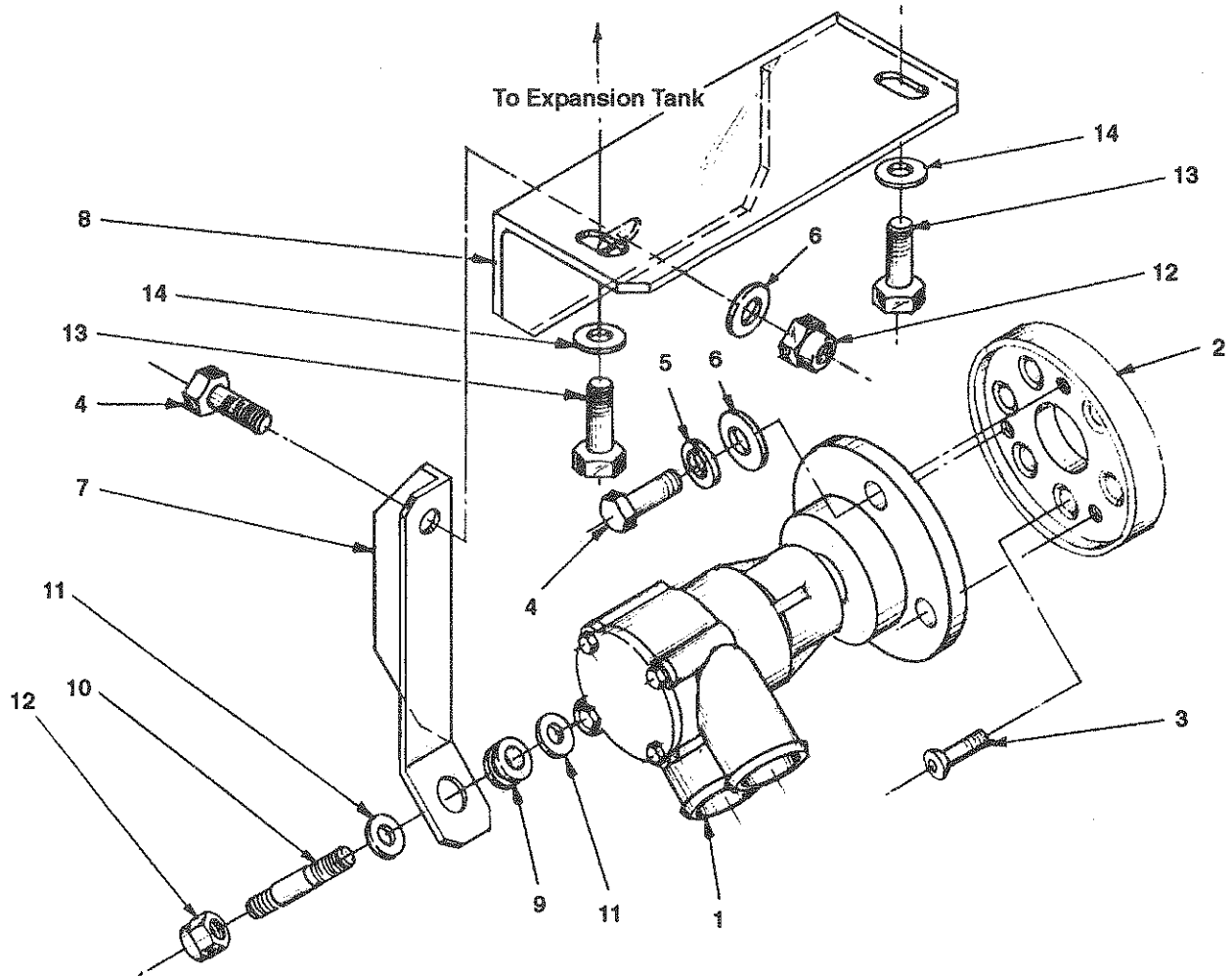
TP26804

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
∞	AR77142	1	Circulating Pump Assembly (includes Keys 2-11 & 14)	-
1	T20243	1	Gasket	-
2	R56070	1	Cover	-
3	R56809	1	Gasket	-
4	R56812	1	Impeller	-
5	AR101549	1	Seal Kit	-
6	JD8643	1	Bearing & Shaft Assembly	-
7	21-00531	1	Plug, Square Head 1/2NPT	-
8	12-00314	5	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
	12-00317	1	Capscrew, Hex Head 3/8-16 x 2-1/4"	-
	12-00312	1	Capscrew, Hex Head 3/8-16 x 1"	-
9	R34985	1	Line	-
10	AR80116	1	Housing (marked R90784 or R104648)	-
11	R56810	1	Pulley	-
12	14-00311	1	Hex Nut 3/8-16	-
13	15-00302	1	Lock Washer 3/8	-
14	12-00315	1	Capscrew, Hex Head 3/8-16 x 1-3/4"	-
	12-00318	1	Capscrew, Hex Head 3/8-16 x 2-1/2"	-
	12-00310	1	Capscrew, Hex Head 3/8-16 x 3"	-
15	T25701	1	Stud	-
16	R56461	1	O-Ring	-
17	R55967	1	Bypass Tube	-

COOLING SYSTEM

RAW WATER PUMP and MOUNTING – MARINE APPLICATION

(Without Aftercooler)



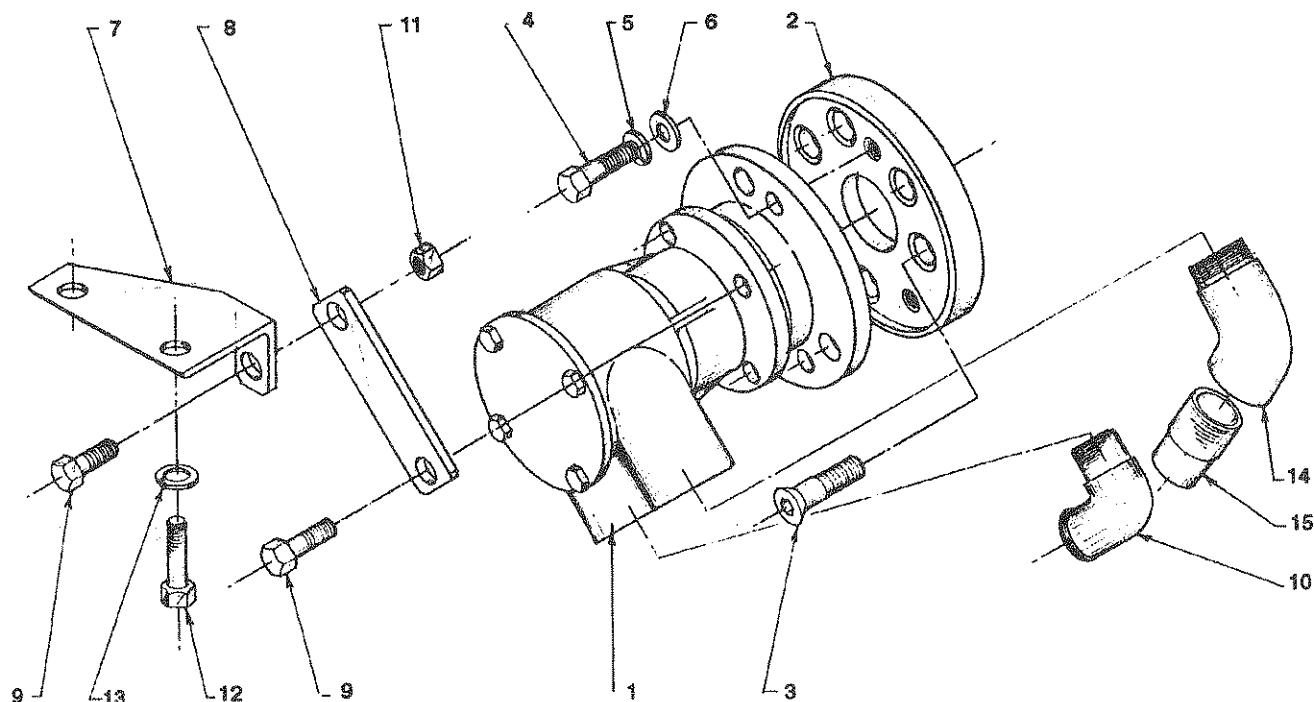
A5571/B-4179A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	25-11030	1	Raw Water Pump (see parts detail)	-
2	31-11005	1	Adapter Plate	-
3	12-03310	2	Flat Head Socket Screw 3/8-16 x 3/4"	-
4	12-11003	4	Capscrew, Hex Head 5/16-18 x 7/8"	-
5	15-00202	3	Lock Washer 5/16"	-
6	15-00221	4	Flat Washer 5/16"	-
7	23-11609	1	Bracket	-
8	23-11007	1	Bracket	-
9	12-00111	1	Capscrew, Hex Head 1/4-20 x 3/4"	-
10	13-11001	1	Stud 5/16-18 x 5/16-18 x 1-1/2"	-
11	15-00211	2	Flat Washer 5/16"	-
12	14-00212	2	Nylock Nut 5/16-18	-
13	12-00311	2	Capscrew, Hex Head 3/8-16 x 3/4"	-
14	15-00302	2	Lock Washer 3/8"	-

COOLING SYSTEM

RAW WATER PUMP and MOUNTING MARINE APPLICATION

(With Aftercooler)



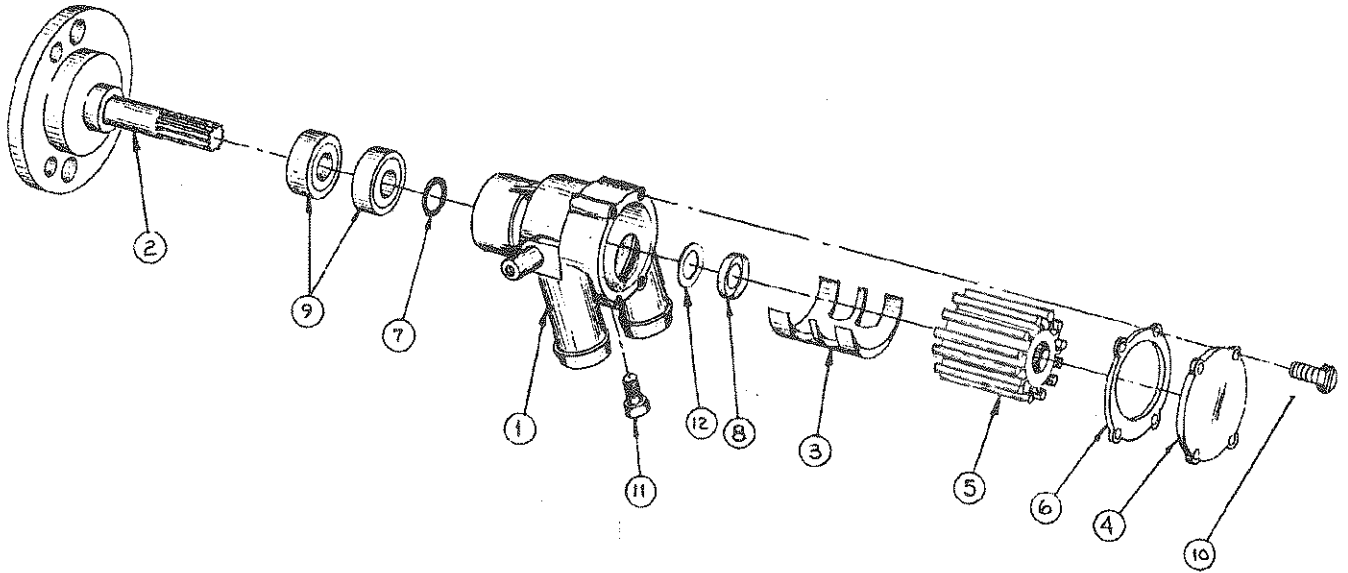
A3712/B-3345

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	25-11624	1	Raw Water Pump (see parts detail)	-
2	31-11005	1	Adapter Plate	-
3	12-03310	2	Flathead Socket Screw 5/16-16 x 3/4"	-
4	12-11003	3	Capscrew Hex Head 5/16-18 x 7/8"	-
5	15-00202	3	Lock Washer 5/16"	-
6	15-00221	3	Flat Washer 5/16"	-
7	23-11608	1	Bracket	-
8	23-11606	1	Strap	-
9	12-00111	2	Capscrew, Hex Head 1/4-20 x 3/4"	-
10	21-31005	1	Male Elbow, 90° Copper, 1"NPT x 1-5/8"HB	-
11	14-00112	2	Hex Nut, Nylock 1/4-20	-
12	12-00311	2	Capscrew, Hex Head 3/8-16 x 3/4"	-
13	15-00302	2	Lock Washer, Helical 3/8	-
14	21-00138	1	Street Elbow, 45° Brass, 1"NPT	-
15	21-10025	1	Hose Nipple, Brass 1"NPT x 2"	-

COOLING SYSTEM

RAW WATER PUMP ASSEMBLY – MARINE APPLICATION

(Without Aftercooler)



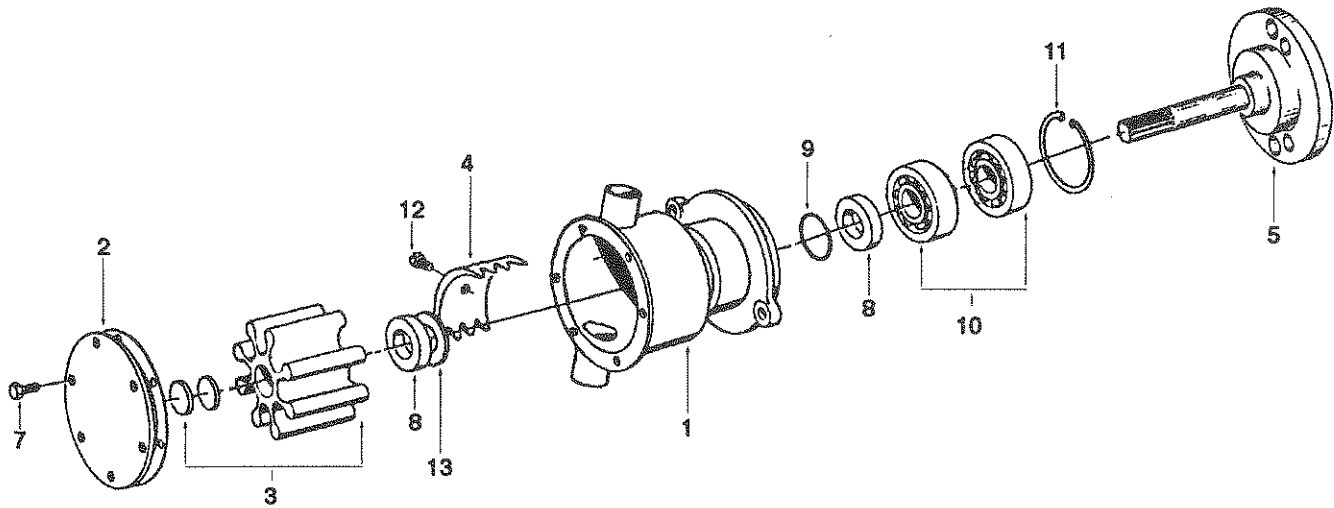
C-2016A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	25-11030	1	Raw Water Pump (includes all Keys)	-
1	25-11045	1	Housing	-
2	25-11040	1	Carrier Assembly (includes Key #9)	-
3	25-11037	1	Cam	-
4	25-11041	1	Cover	-
5	25-11031	1	Impeller	-
6	25-11032	1	Gasket	-
7	25-11024	1	O-Ring	-
8	25-11033	1	Seal	-
9	25-11034	2	Bearing	-
10	25-11035	4	Screw	-
11	25-11036	1	Screw	-
12	25-11044	1	Washer	-

COOLING SYSTEM

RAW WATER PUMP – MARINE APPLICATION

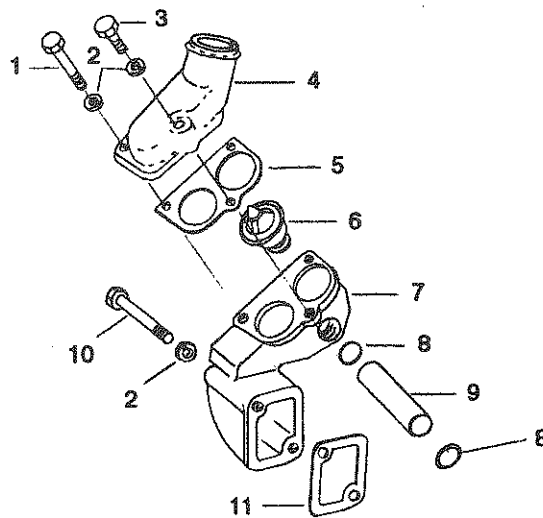
(With Aftercooler)



A4886

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	25-11624	1	Raw Water Pump Assembly (includes all Keys)	-
1	25-11008	1	Pump Body	-
2	25-11009	1	End Cover	-
3	25-11011	1	Impeller	-
4	25-11621	1	Cam	-
5		1	Shaft and Flange Assembly	-
6	25-11017	1	Gasket	-
7	25-11036	6	Screw	-
8	25-11023	2	Seal	-
9	25-11024	1	Slinger	-
10	25-11034	1	Bearing	-
11	25-11026	1	Snap Ring	-
12	25-11619	1	Screw	-
13	25-11027	1	Washer	-

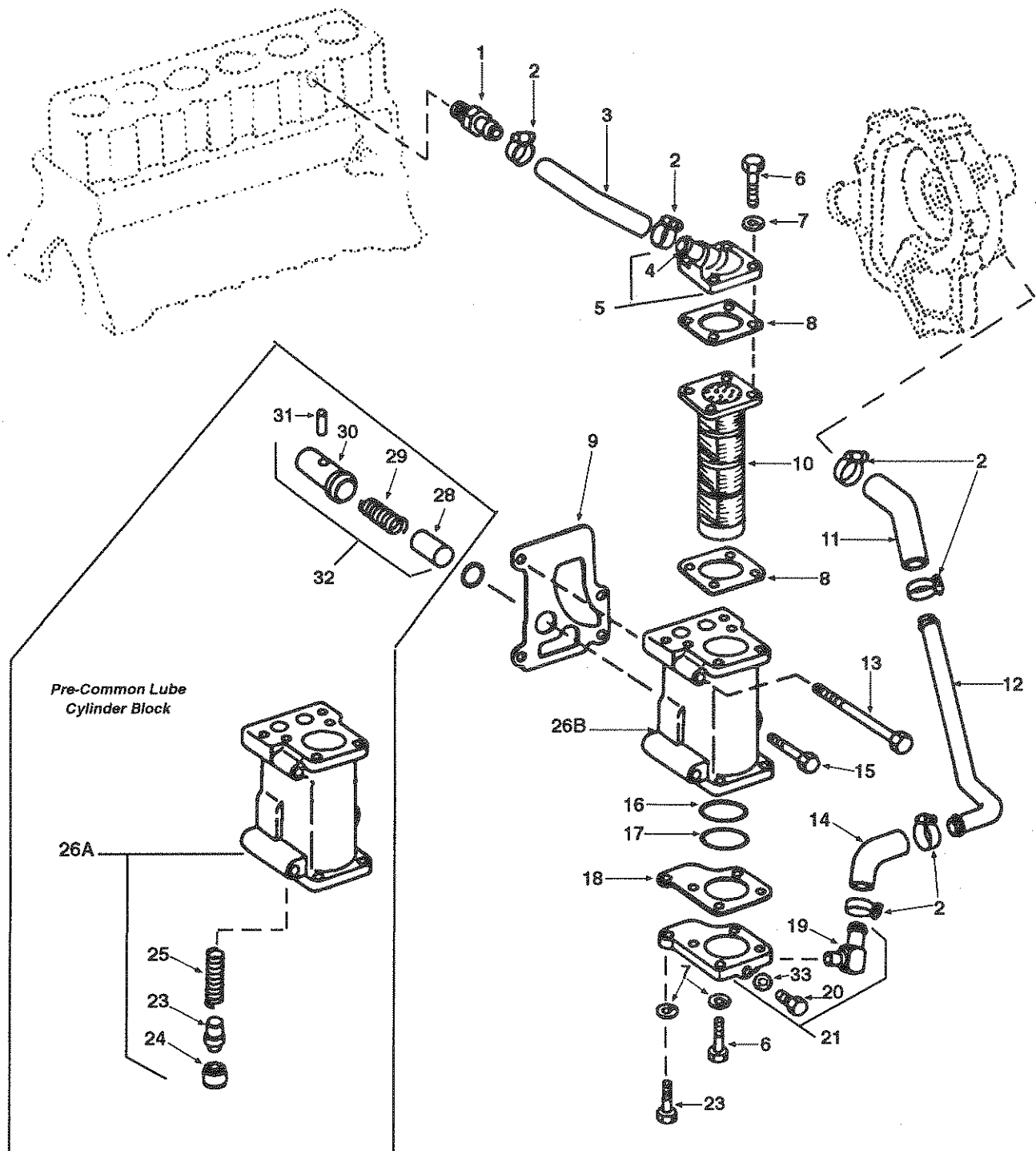
THERMOSTAT HOUSING – INDUSTRIAL APPLICATION



A221/B-1543B

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	12-00316	2	Capscrew, Hex Head 3/8-16 x 2"	-
2	15-00302	5	Lock Washer, Helical 3/8	-
3	12-00312	1	Capscrew, Hex Head 3/8-16 x 1"	-
4	R54639	1	Cover	-
5	R54638	1	Gasket	-
6	AR48675	2	Thermostat 180°F	-
7	R54637	1	Housing	-
8	R56461	2	O-Ring	-
9	R55967	1	Tube	-
10	12-00354	2	Capscrew, Hex Head 3/8-16 x 3-3/4"	-
11	11-11611	1	Gasket	-

LUBRICATING OIL COOLER - SMALL

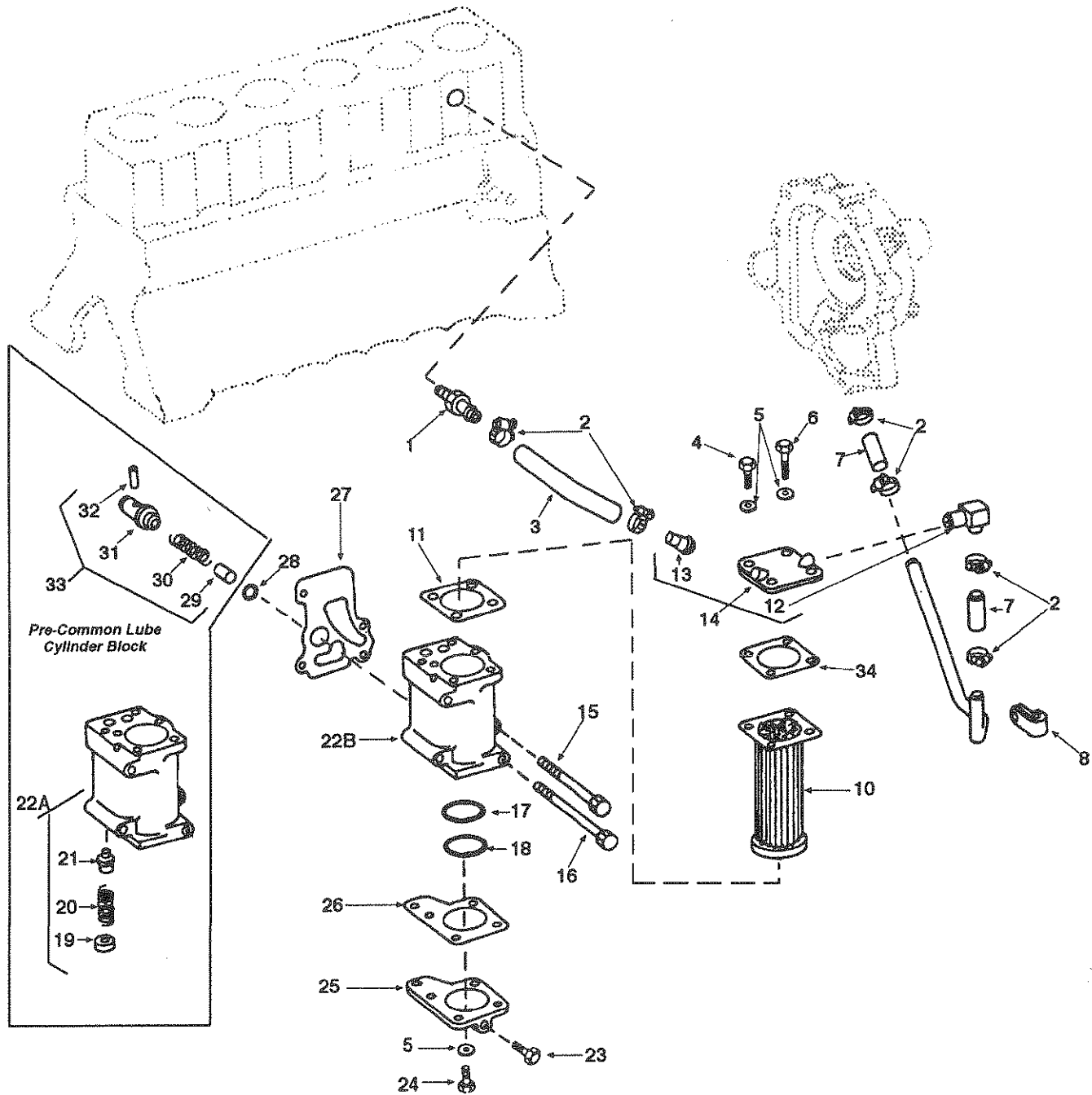


COOLING SYSTEM

LUBRICATING OIL COOLER – SMALL

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R39503	1	Hose Fitting	-
2	19-00020	6	Hose Clamp #20	-
3	R54826	1	Hose	-
4	R34985	1	Tube	-
5	AR70464	1	Cover (marked R58632 – includes Key 4)	-
6	12-00213	1	Capscrew, Hex Head 5/16" x 1-1/4"	-
7	15-00202	9	Lock Washer 5/16"	-
8	R98486	2	Gasket	-
9	R98489	1	Gasket	-
10	RE31089	1	Oil Cooler Element	-
11	R26905	1	Hose	-
12	R54830	1	Tube	-
13	12-00356	3	Capscrew, Hex Head 3/8" x 4-1/4"	-
14	R54829	1	Hose	-
15	12-00316	2	Capscrew, Hex Head 3/8-16 x 2"	-
16	R56814	1	O-Ring (inner)	-
17	R56815	1	O-Ring (outer)	-
18	R98487	1	Gasket	-
19	AR26732	1	Elbow Fitting	-
20	21-00012	1	Plug, Hex Head 1/8NPT	-
21	AR63356	1	Cover (marked R54828)	-
22	12-00212	1	Capscrew, Hex Head 5/16-18 x 1"	-
23			Valve Seat Insert (not available separately – order Key 26A)	Up to 362801
24	R73189	1	Valve, Oil Bypass	Up to 362801
25	R46625	1	Spring	Up to 362801
26A	AR103165	1	Housing (marked R76241)	Up to 362801
26B	R110562	1	Housing	From 362802
27	R61871	1	O-Ring	-
28		1	Valve (not available separately – order Key 32)	Up to 362801
29	R46625	1	Spring	Up to 362801
30		1	Housing (not available separately – order Key 32)	Up to 362801
31	34H184	1	Spring Pin 1/8 x 1-1/8"	Up to 362801
32	AR63351	1	Valve Assembly, Pressure Regulating (includes Keys 23 - 25)	Up to 362801
NOTE: Engines may be equipped with Large or Small Oil Coolers. For easy identification, check coolant connections: Small Cooler – Bottom Inlet, Top Outlet Large Cooler – Top Inlet and Outlet				

LUBRICATING OIL COOLER - LARGE



COOLING SYSTEM

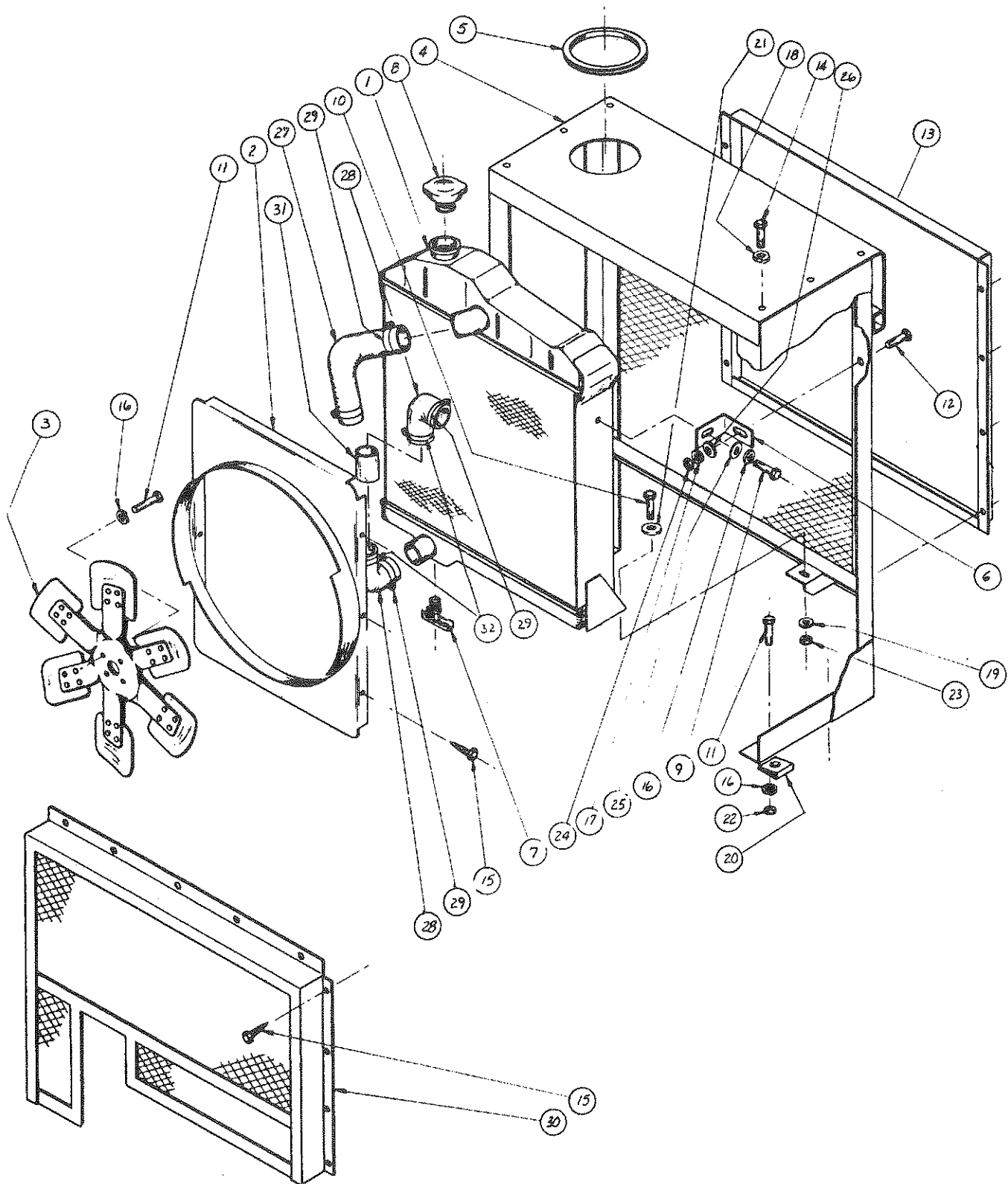
LUBRICATING OIL COOLER – LARGE

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	R39503	1	Hose Fitting	-
2	19-00020	6	Hose Clamp #20	-
3	R54826	1	Hose	-
4	12-00314	3	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
5	1500302	11	Lock Washer 3/8"	-
6	12-00316	1	Capscrew, Hex Heax 3/8-16 x 2"	-
7	R26905	2	Hose 3/4"ID x 2-1/2"	-
8	T38959	1	Clamp	-
9	R60961	1	Tube	-
10	RE31286	1	Oil Cooler Element	-
11	R98404	1	Gasket	-
12	AR26732	1	Elbow Fitting	-
13	R34985	1	Tube	-
14	AR66406	1	Cover (market R56195 – includes Keys 12 - 13)	-
15	12-00359	2	Capscrew, Hex Head 3/8-16 x 5"	-
16	12-00022	2	Capscrew, Hex Head 3/8-16 x 5-3/4"	-
17	R56192	1	O-Ring	-
18	R56193	1	O-Ring	-
19		1	Valve Seat (not available separately – order Key 22A)	-
20	R46625	1	Spring	-
21	R73139	1	Valve, Oil Bypass	-
22A	AR103164	1	Housing (includes Keys 9 - 21)	Up to 362801
22B	BR110563	1	Housing	From 362802
23	R42852	1	Pipe Plug	-
24	19H3483	5	Capscrew, Hex Head 3/8-16 x 1-1/8"	-
25	R56197	1	Cover	-
26	R98485	1	Gasket	-
27	R98489	1	Gasket	-
28	A4830R	1	O-Ring	-
29		1	Valve (not available separately – order Key 33)	Up to 362801
30	R46625	1	Spring	Up to 362801
31		1	Housing (not available separately – order Key 33)	Up to 362801
32	34H184	1	Spring Pin 1/8" x 1-1/8"	Up to 362801
33	AR63351	1	Valve Assembly, Pressure Regulating (includes Keys 29–32)	Up to 362801
34	R98471	1	Gasket	-
NOTE: Engines may be equipped with Large or Small Oil Coolers. For easy identification, check coolant connections: Small Cooler – Bottom Inlet, Top Outlet Large Cooler – Top Inlet and Outlet				

COOLING SYSTEM

RADIATOR and MOUNTING NL668

440 Frame Generators



A1120G/C-1406B

COOLING SYSTEM

RADIATOR and MOUNTING NL668

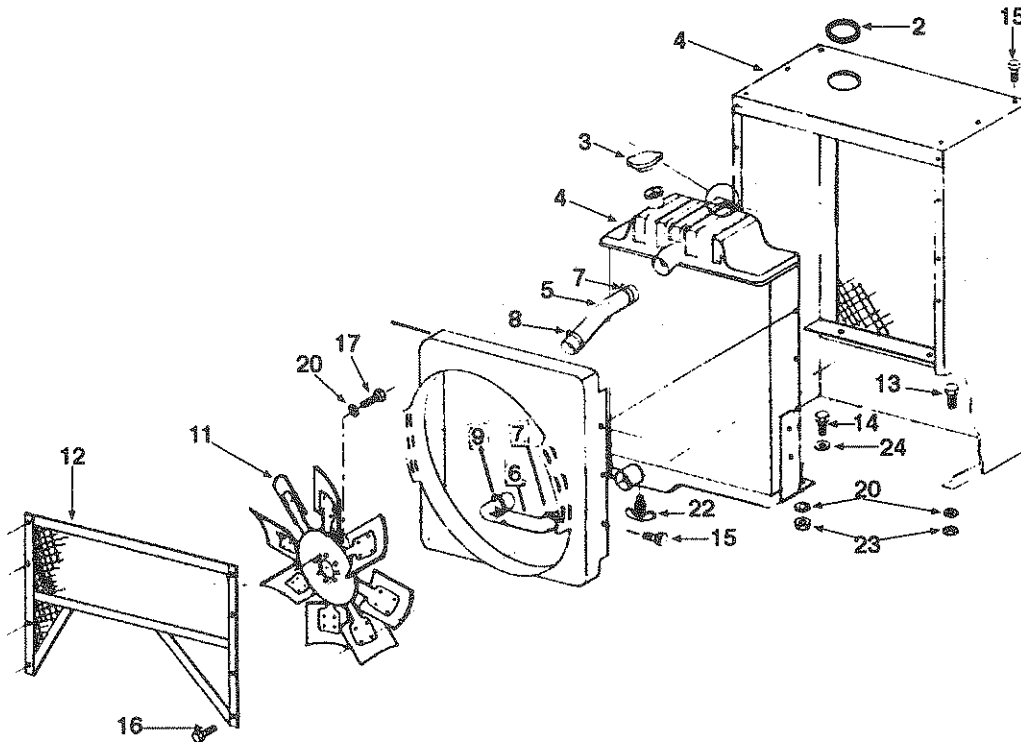
440 Frame Generators

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	AR43945	1	Radiator	-
2	R46522	1	Shroud	-
3	AT24834	1	Fan (Pusher)	-
4	39-11616	1	Radiator Guard	-
5	00-41077	1	Grommet	-
6	23-11605	2	Bracket, Radiator Mount	-
7	21-10002	1	Drain Cock, Brass 1/4NPT	-
8	21-12009	1	Radiator Cap 7 lb.	-
9	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-
10	12-00513	2	Capscrew, Hex Head 1/2-13 x 1-1/4"	-
11	12-00314	8	Capscrew, Hex Head 3/8-16 x 1-1/2"	-
12	12-00212	2	Capscrew, Hex Head 5/16-18 x 1"	-
13	31-12402	1	Adapter, Air Duct Connection (optional)	-
14	12-00100	10	Capscrew, Hex Head 1/4-20 x 1/2"	-
15	12-00140	20	Capscrew, Self-tapping 1/4-20 x 1/2"	-
16	15-00302	10	Lock Washer 3/8	-
17	15-00202	2	Lock Washer 5/16	-
18	15-00102	10	Lock Washer 1/4	-
19	15-00502	2	Lock Washer 1/2	-
20	15-00310	4	Bevel Washer 3/8	-
21	15-00501	2	Flat Washer 1/2"	-
22	14-00311	6	Nut 3/8-16	-
23	14-00511	2	Nut 1/2-13	-
24	14-00213	2	Nut 5/16-18	-
25	15-00301	2	Flat Washer 3/8	-
26	15-00211	2	Flat Washer 5/16	-
27	R54534	1	Hose, Upper	-
28	18-11603	2	Hose, Lower	-
29	19-00040	4	Hose Clamp #40	-
30	39-11600	1	Fan Guard	-
31	27-11602	1	Tube	-
32	19-00032	2	Hose Clamp #32	-
33	12-00203	8	Capscrew, Hex Head 5/16-18 x 1/2"	-
34	15-70000	8	Lock Washer 5/16	-

COOLING SYSTEM

RADIATOR and MOUNTING NL668

360 Frame Generators



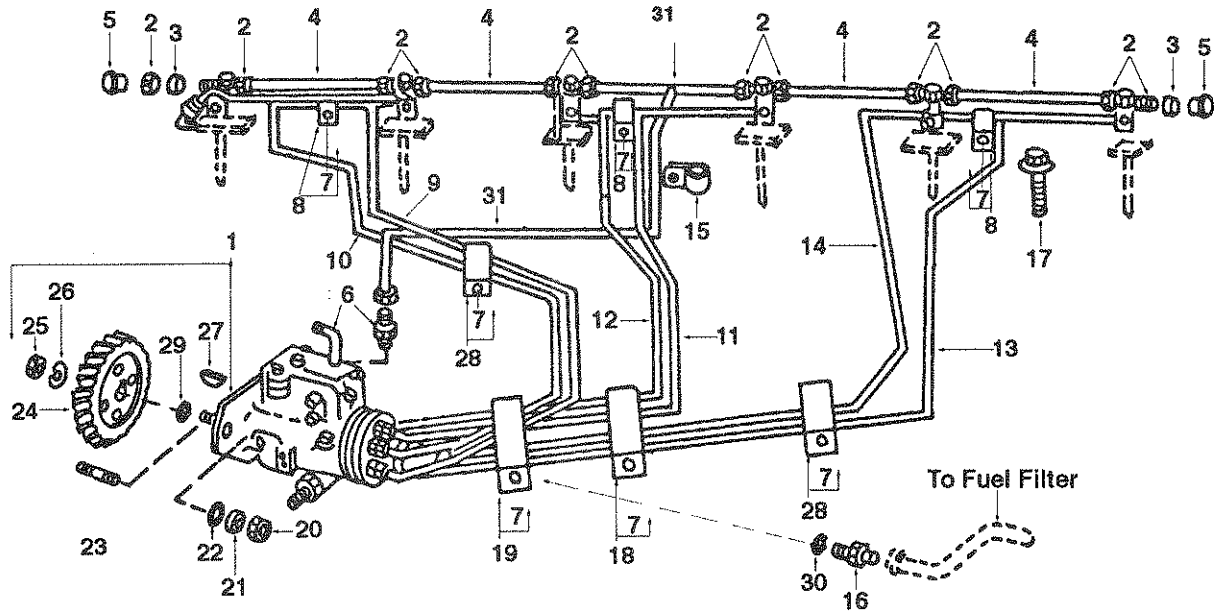
A1243E/C-1454B

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	39-11602	1	Radiator Guard	-
2	00-41077	1	Continuous Grommet	-
3	21-12007	1	Radiator Cap 7 lb.	-
4	AR61880	1	Radiator	-
5	R54534	1	Hose, Upper	-
6	R53550	1	Hose, Lower	-
7	19-00032	2	Clamp, Hose #32	-
8	19-00036	1	Clamp, Hose #36	-
9	19-00040	1	Clamp, Hose #40	-
10	R72856	1	Shroud, Radiator	-
11	AT31819	1	Fan (pusher)	-
12	39-11615	1	Fan Guard	-
13	12-00314	4	Cap Screw, Hex Head 3/8-16 x 1-1/2"	-
14	12-00316	2	Cap Screw, Hex Head 3/8-16 x 2"	-
15	12-00140	12	Cap Screw, Self-tapping 1/4-20 x 1/2"	-
16	12-00141	8	Cap Screw, Self-tapping 1/4-20 x 3/4"	-
17	12-00312	4	Cap Screw, Hex Head 3/8-16 x 1"	-
20	15-00303	9	Lock Washer 3/8"	-
22	21-10002	1	Drain Cock, Brass 1/4"NPT	-
23	14-00311	6	Nut 3/8-16	-
24	15-00301	2	Flat Washer 3/8"	-

NOTES

FUEL SYSTEM

FUEL INJECTION PUMP and FUEL LINES



TP41046

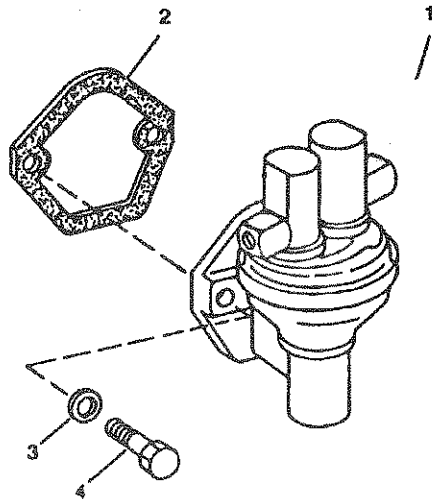
FUEL SYSTEM

FUEL INJECTION PUMP and FUEL LINES

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE47184	1	Fuel Injection Pump (L668T 2200RPM – former #RE42094)*	-
	RE47182	1	Fuel Injection Pump (L668D 2500RPM – former #RE42092)*	-
	RE42695	1	Fuel Injection Pump (L668D 2200RPM)*	-
	26-51627	1	Fuel Injection Pump (L668A 2500RPM)*	-
	26-51630	1	Fuel Injection Pump (M-NL668D & C-Series – former #26-51612)	-
	26-51632	1	Fuel Injection Pump (M668Q – former #26-51619)	-
	26-51629	1	Fuel Injection Pump (M-NL668T & C-Series – former #26-51613)	-
	26-51631	1	Fuel Injection Pump (M668QT – former #26-51609)	-
	26-51628	1	Fuel Injection Pump (M668A – former #26-51626)	-
2	R51937	12	Tube Nut	-
3	R51936	12	Packing	-
4	R66090	4	Tube	-
5	16H658	1	Plug	-
6	27-71053	1	Male Elbow 90°, Steel 1/8NPT x 1/4-37T (Marine)	-
	21-52204	1	Male Connector, Brass (Industrial)	-
7	12-00062	4	Capscrew, Hex Head M6 x 1.0 x 10mm	-
8	RE19797	3	Clamp (includes Key 7)	-
9	RE43986	1	Injection Line #1	up to 389613
	RE53856	2	Injection Line #1	after 389614
10	RE40383	1	Injection Line #2	up to 389613
	RE53857	2	Injection Line #2	after 389614
11	RE40384	1	Injection Line #3	up to 389613
	RE53858	1	Injection Line #3	after 389614
12	RE40385	1	Injection Line #4	up to 389613
	RE53859	1	Injection Line #4	after 389614
13	RE40386	1	Injection Line #5	up to 389613
	RE53860	1	Injection Line #5	after 389614
14	RE40387	1	Injection Line #6	up to 389613
	RE53861	1	Injection Line #6	after 389614
15	T29969	1	Clamp (Industrial only)	-
16	R27272	1	Fitting	-
17	R101201	6	Capscrew	-
18	RE19799	1	Clamp (includes Key 7)	-
19	RE19800	1	Clamp (includes Key 7)	-
20	14-00213	3	Hex Nut 5/16-18	-
21	15-00202	3	Lock Washer 5/16"	-
22	T27860	3	Washer	-
23	T23442	3	Stud	-
24	R104907	1	Gear 48 teeth	-
25	R91360	1	Nut	-
26	R48600	1	Lock Washer	-
27	R56424	1	Shaft Key	-
28	RE19798	2	Clamp (includes Key 7)	-
29	R89944	**	O-Ring	-
30	R26286	1	O-Ring	-
31	27-51004	1	Return Line (Marine)	-
	AR85615	1	Return Line (Industrial)	-
*Note: All Injection Pumps for propulsion applications are equipped with inboard throttle arrangements.				
**As Required				

FUEL SYSTEM

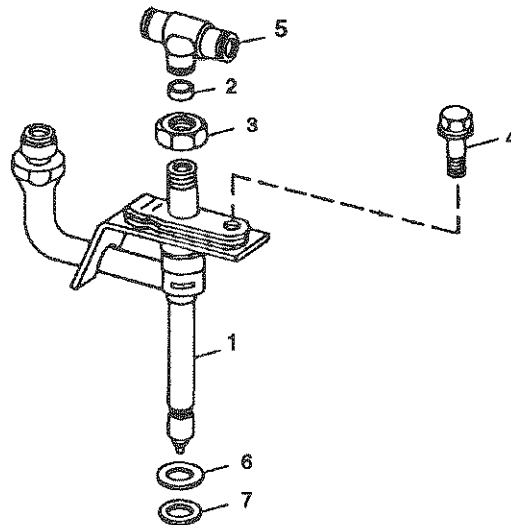
FUEL TRANSFER PUMP



TP26493

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE42211	1	Fuel Transfer Pump (former # RE277667)	-
2	R97350	1	Gasket	-
3	T27860	2	Washer	-
4	12-00213	1	Capscrew, Hex Head 5/16-18 x 1-1/4"	-

FUEL INJECTION NOZZLE



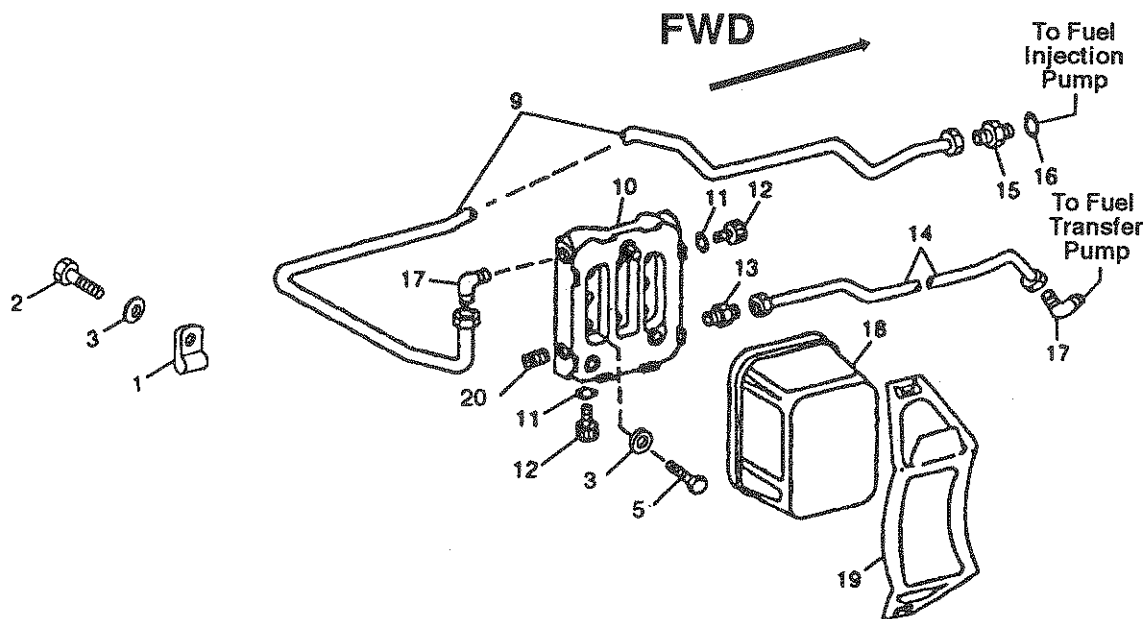
TP26862

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE38087	1	Fuel Injector (includes Keys 6-7)	-
2	R79605	1	Washer	-
3	R79604	1	Tube Nut	-
4	R101201	1	Capscrew	-
5	R79606	1	Tee Fitting	-
6	R92352	1	Packing	-
7	R48000	1	Seal	-

FUEL SYSTEM

FUEL FILTER and FUEL LINES

Clamp-on Style

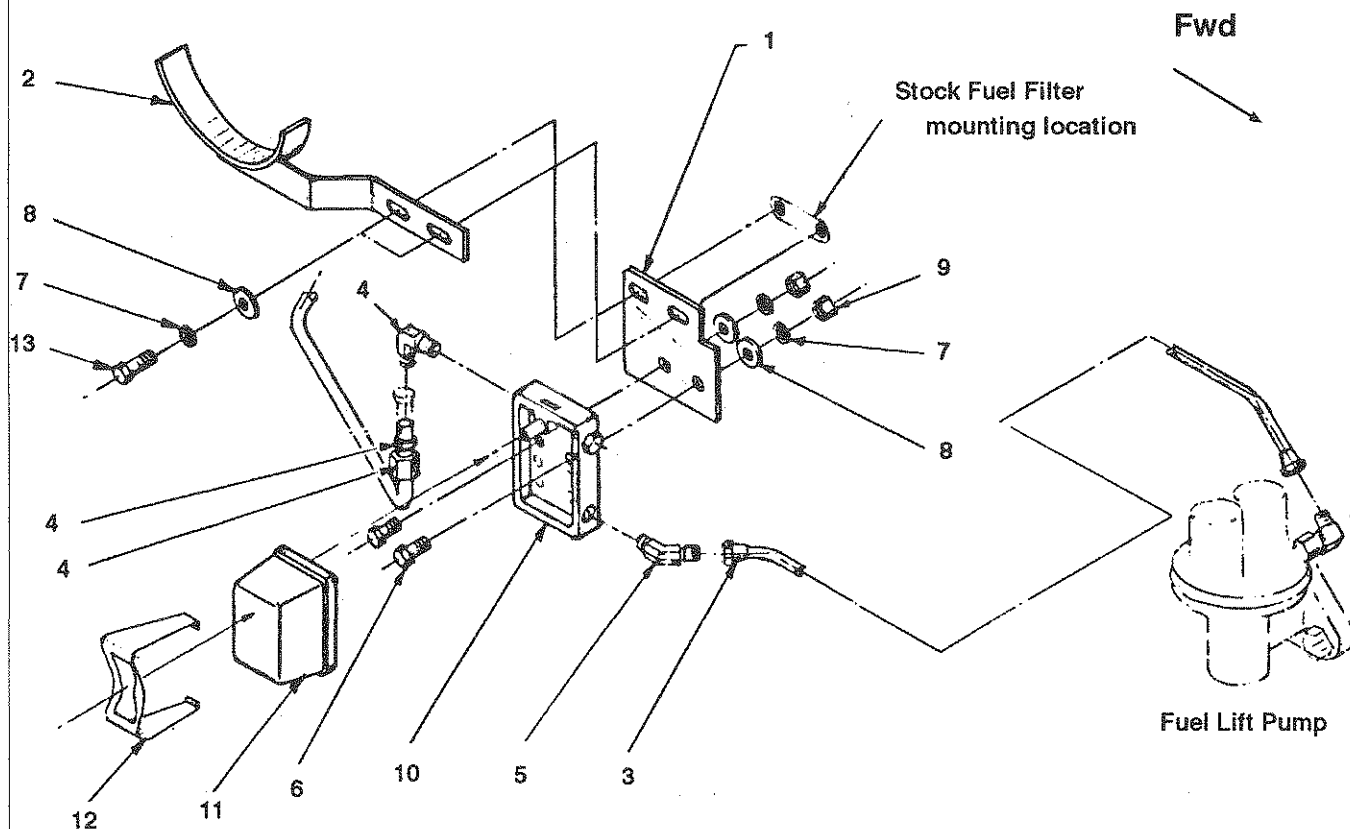


TP42644

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	T29527	1	Clamp	-
2	12-00311	1	Capscrew, Hex Head 3/8-16 x 3/4"	-
3	15-00321	4	Flat Washer 3/8 SAE	-
4	R56588	1	Strap, Tube Support (not shown)	-
5	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-
6	24M1754	1	Washer	-
7	15-00312	1	Lock Washer 3/8"	-
8	14-00311	1	Nylock Nut 3/8-16	-
9	RE41764	1	Fuel Line	-
10	24-52255	1	Housing	-
11	R34447	2	Washer	-
12	R48071	2	Drain Plug	-
13	R27346	1	Fitting	-
14	RE41765	1	Fuel Line	-
15	R27272	1	Fitting	-
16	R26286	1	O-Ring	-
17	R82131	2	Male Elbow 90°, Brass 1/8NPT x 5/16-45T	-
18	24-52259	1	Fuel Filter	-
19	24-52256	2	Clamp	-
20	21-00027	1	Plug, Socket Head 1/8NPT	-

FUEL SYSTEM

FUEL FILTER ARRANGEMENT L-M668A

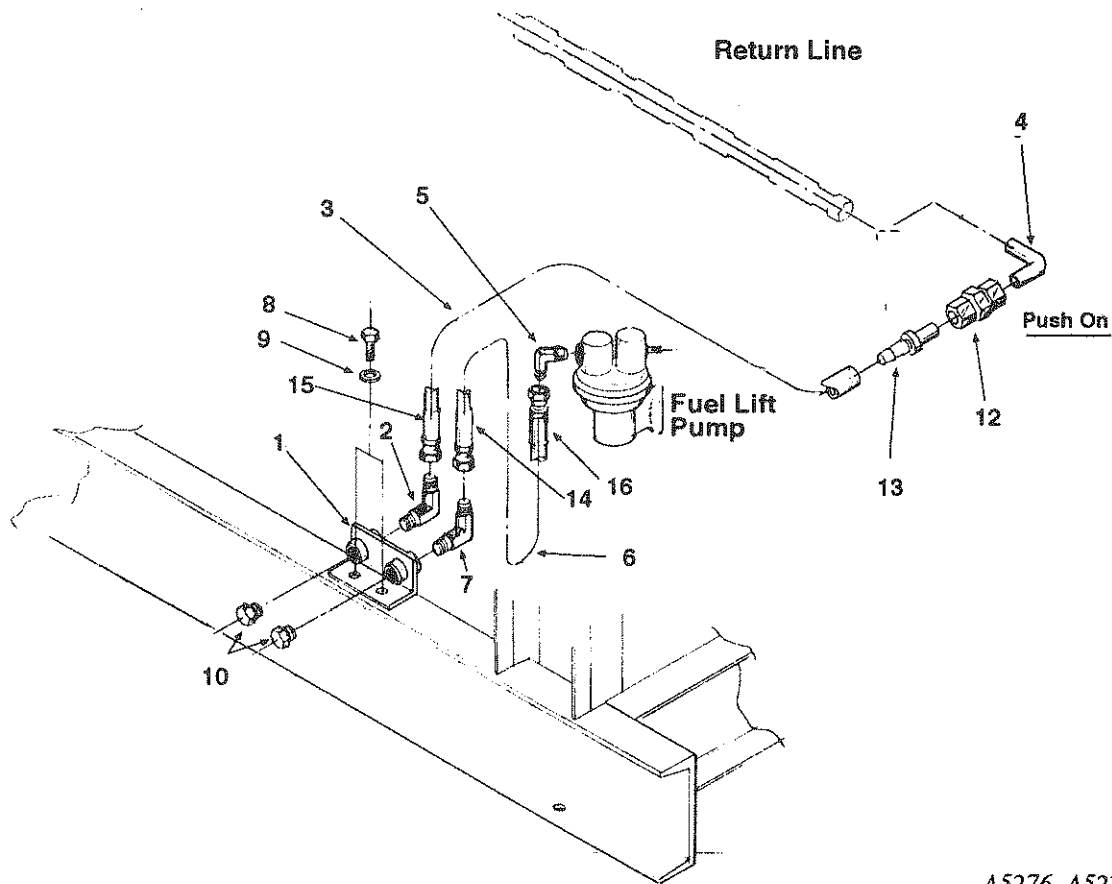


A5553/B-4157

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	23-51603	1	Bracket, Fuel Filter Mounting	-
2	23-21606	1	Bracket, Air Filter Mounting	-
3	27-51601	1	Tube Assy. Fuel Filter Supply	-
4	21-51101	1	Elbow 90° 1/8NPT x 5/16T Flareless	-
5	21-51103	1	Male Elbow 45° Stainless Steel 1/8NPT x 5/16-37T	-
6	12-00311	2	Capscrew, Hex Head 3/8-16 x 3/4"	-
7	15-00302	4	Lock Washer, Helical 3/8	-
8	15-00301	4	Flat Washer 3/8	-
9	14-00311	2	Hex Nut 3/8-16	-
10	24-52255	1	Fuel Filter Base	-
11	24-52259	1	Fuel filter (Metal Case)	-
12	24-52256	1	Spring Clamp	-
13	12-00312	2	Capscrew, Hex Head 3/8-16 x 1"	-

FUEL SYSTEM

PUSH-ON FUEL LINES – GENERATOR SET APPLICATION

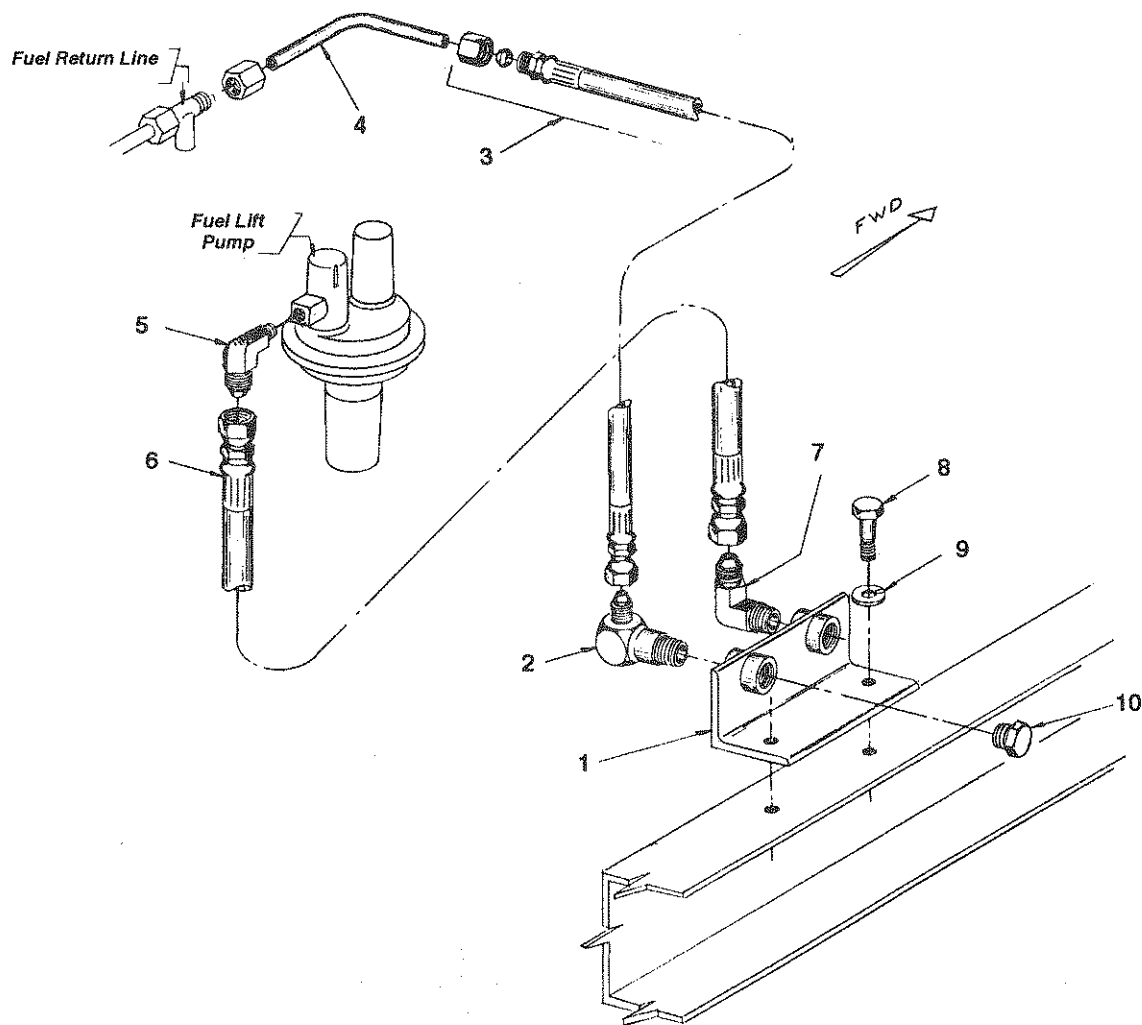


A5276, A5275A/B-4630

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-51098	1	Fuel Manifold 3/8NPT	-
2	21-01014	1	Male Elbow, 90° Brass 3/8NPT x 1/4-45T	-
3	18-51001	1	Hose 1/4"ID x 36" (Standard Mounts – Marine & Industrial Gen Sets)	-
	18-51006	1	Hose 1/4"ID x 39-1/2" (Hydrolastic Mounts – Marine Gen Sets)	-
4	27-50004	1	Tube	-
5	21-71055	1	Male Elbow, 90° Steel 1/8NPT x 3/8-37T	-
6	18-51614	1	Hose 3/8"ID x 16" (Standard Mounts – Marine & Industrial Gen Sets)	-
	18-54803	1	Hose 3/8"ID x 21" (Hydrolastic Mounts – Marine Gen Sets)	-
7	21-01015	1	Male Elbow, 90° Brass 3/8NPT x 3/8-45T	-
8	12-00111	2	Capscrew, Hex Head 1/4-20 x 3/4"	-
9	15-00102	2	Lock Washer 1/4	-
10	21-10004	2	Plug, Hex Head Steel 3/8NPT	-
12	21-51004	1	Compression Tube Union 1/4"	-
13	21-51045	1	Compression Tube Fitting 1/4HB x 1/4Comp.	-
14	21-71032	1	Female Swivel 3/8HB x 3/8-45T	-
15	21-71045	1	Female Swivel 1/4HB x 1/4-45T	-
16	21-71034	1	Female Swivel 3/8HB x 3/8-37T	-

FUEL SYSTEM

U.S. COAST GUARD APPROVED FUEL LINES – MARINE GEN SET APPLICATION

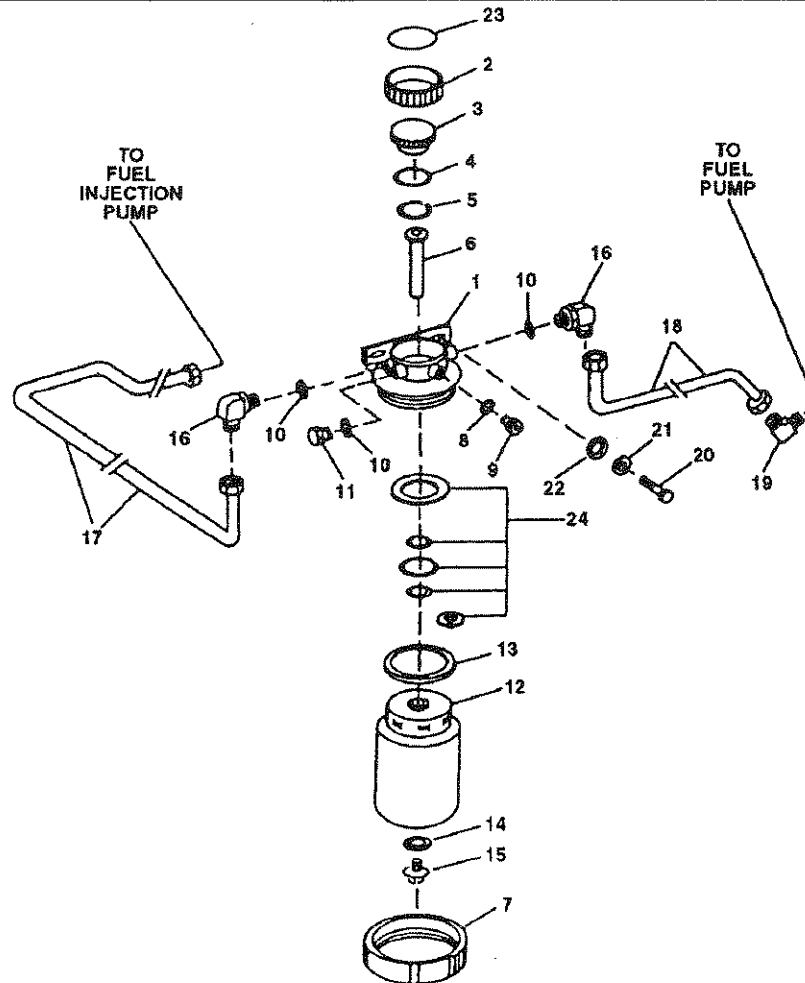


A4554, A4543B/C-2416

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-51098	1	Fuel Manifold 3/8NPT	-
2	21-51601	1	Male Elbow, 90° Steel 3/8NPT x 1/4-37T	-
3	18-51009	1	Hose Assembly 1/4"ID x 35" (Standard Mounts)	-
	18-50001	1	Hose Assembly 1/4"ID x 42" (Hydrolastic Mounts)	-
4	27-50004	1	Tube	-
5	21-71005	1	Male Elbow 90° 1/8NPT x 3/8-37T	-
6	18-72201	1	Hose Assembly 3/8"ID x 16" (Standard Mounts)	-
	18-54805	1	Hose Assembly 3/8"ID x 21" (Hydrolastic Mounts)	-
7	21-00606	1	Male Elbow, 90° Steel 3/8NPT x 3/8-37T	-
8	12-00111	2	Capscrew, Hex Head 1/4-20 x 3/4"	-
9	15-00102	2	Lock Washer, Helical 1/4	-
10	21-10004	2	Plug, Steel 3/8NPT	-

FUEL SYSTEM

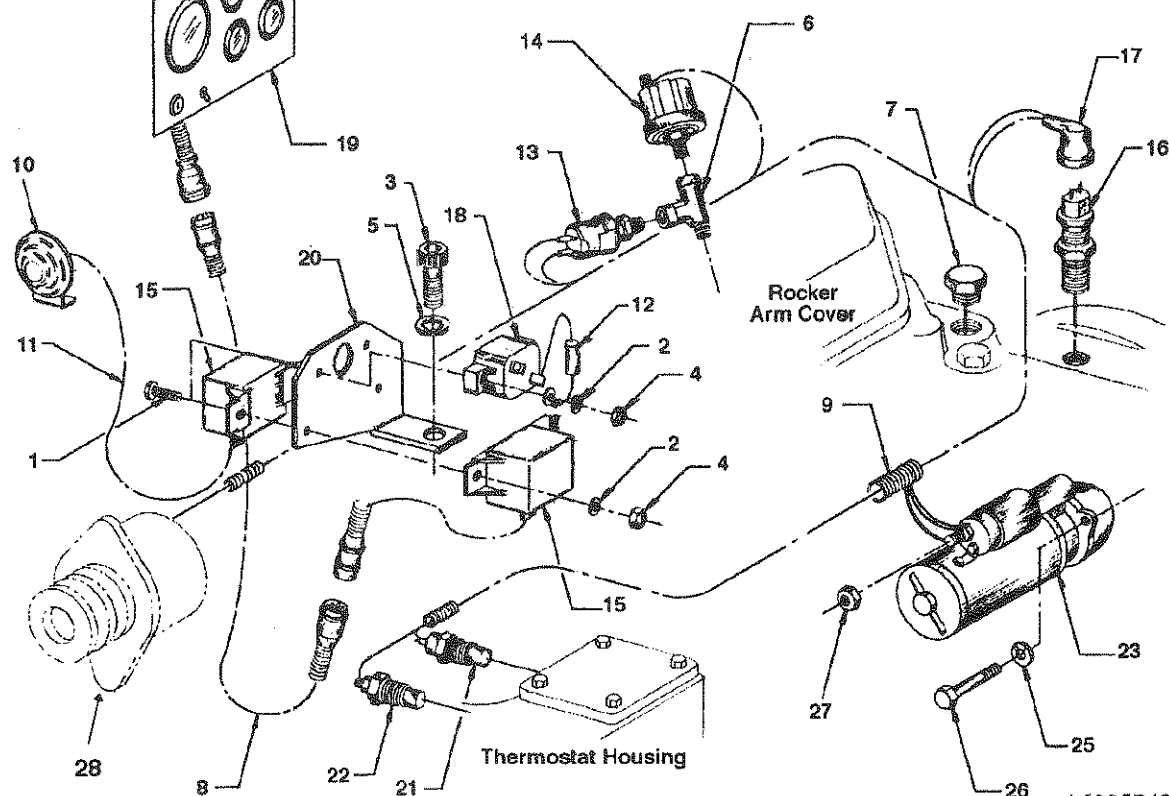
FUEL FILTER & MOUNTING -RING CLAMP STYLE



KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	RE51649	1	Repair Kit (includes keys # 2,3,6,&9)	
1	RE55762	1	Filter Head	
2	N/A separately	1	Retainer (included in Repair Kit RE51649)	
3	N/A separately	1	Cap (included in Repair Kit RE51649)	
4	N/A separately	1	Packing (included in Seal Kit RE50752)	
5	N/A separately	1	O-Ring (included in Seal Kit RE50752)	
6	N/A separately	1	Valve (included in Repair Kit RE51649)	
7	N/A separately	1	Clamp Ring (included in Repair Kit RE51649)	
8	R113562	1	O-Ring	
9	R113563	1	Vent Plug	
10	R26286	4	O-Ring	
11	R27094	2	Plug	
12	24-51005	1	Filter Element (includes keys #13, 14, 15)	
13	R113565	1	Packing	
14	15-51001	1	Sealing Washer	
15	21-51005	1	Drain Plug	
16	AT32333	1	Male Elbow 90° Steel, 5/16 o-ring port x 5/16-37T	
17	RE57241	1	Tube Assembly, Filter Outlet	
18	RE53547	1	Tube Assembly, Filter Inlet	
19	21-00048	1	Male Elbow 90° Brass, 1/8 NPT x 5/16 - 45T	
20	12-00312	2	Cap Screw, Hex Head, 3/8-16 x 1" w/o turbocharger	
	12-00314	2	Cap Screw, Hex Head, 3/8-16 x 1-1/2" with turbocharger	
21	15-00302	2	Lock Washer 3/8	
22	15-00301	2	Flat Washer 3/8	
23	00-51001	1	Warning Label	
24	RE50752	1	Seal Kit (includes keys # 4,5,8 & 13)	

ELECTRICAL SYSTEM

12 VOLT ENGINE ELECTRICAL SYSTEM

Marine Propulsion

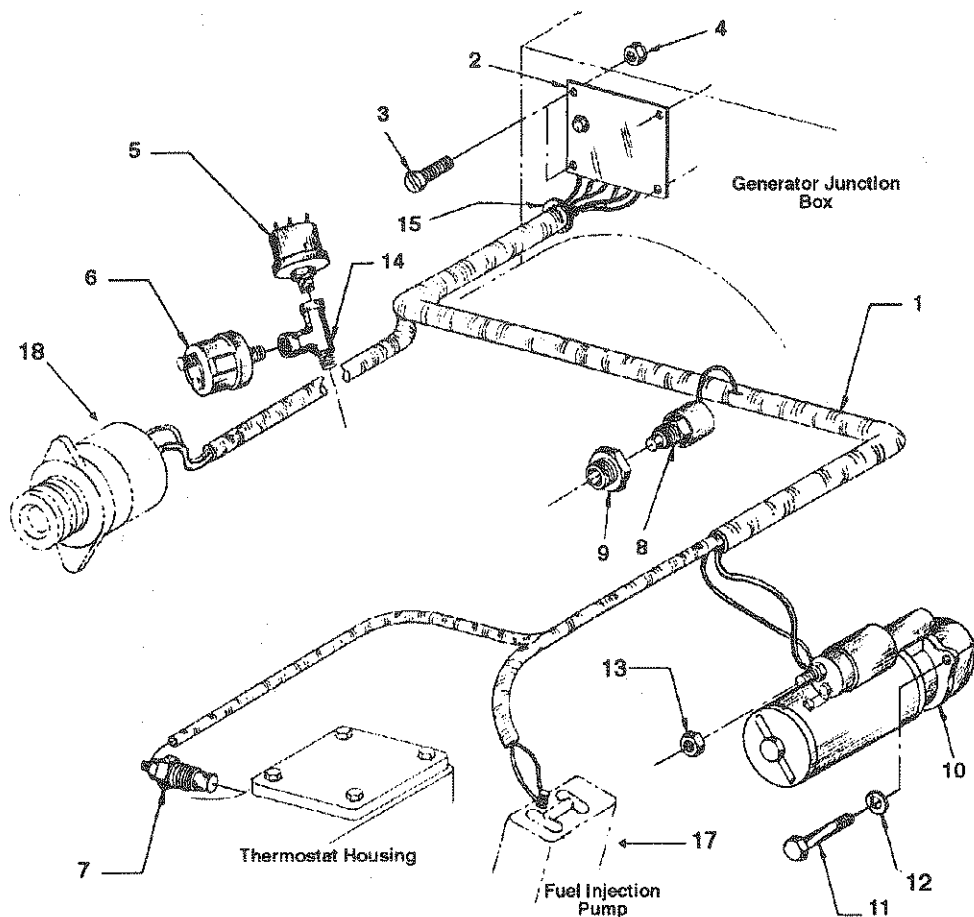
A6385B/C-2940

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	12-00003	4	Machine Screw, Phillips #10-32 x 1"	-
2	15-00032	4	Flat Washer #10	-
3	12-81051	1	Capscrew, Socket Head 1/2-13 x 3/4"	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	15-00503	1	Star Washer 1/2"	-
6	21-05400	1	Street Tee, Steel 1/8NPT	-
7	21-00530	1	Plug, Hex Head, Brass 1/2NPT	-
8	22-00025	1	20' Wire Harness Extension	-
9	22-00022	1	Engine Wire Harness	-
10	22-41007	1	Horn	-
11	22-41009	1	Horn Wire 14-2 x 6'	-
12	22-41013	1	Capacitor	-
13	22-42805	1	Switch, Oil Pressure	-
14	22-41016	1	Sender, Oil Pressure	-
15	22-41030	2	Relay (also order 1 ea. 385620140)	-
16	22-44812	1	Sender, Tachometer	-
17	22-44813	1	Rubber Boot	-
18	22-41070	1	Circuit Breaker 40Amp	-
19	22-91600	1	Main Instrument Panel 12Volt	-
20	23-41037	1	Bracket	-
21	22-41025	1	Switch, Water Temperature	-
22	22-41026	1	Sender, Water Temperature	-
23	RE13722	1	Starter (see mounting detail)	-
25	15-00302	3	Lock Washer, Helical 3/8	-
26	12-00313	3	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
27	14-00311	1	Hex Nut 3/8-16	-
28	RE31694	1	Alternator 12Volt 78Amp (see assembly detail)	-

ELECTRICAL SYSTEM

12 & 24 VOLT ENGINE ELECTRICAL STANDARD GROUND

Marine and Industrial Generator Sets



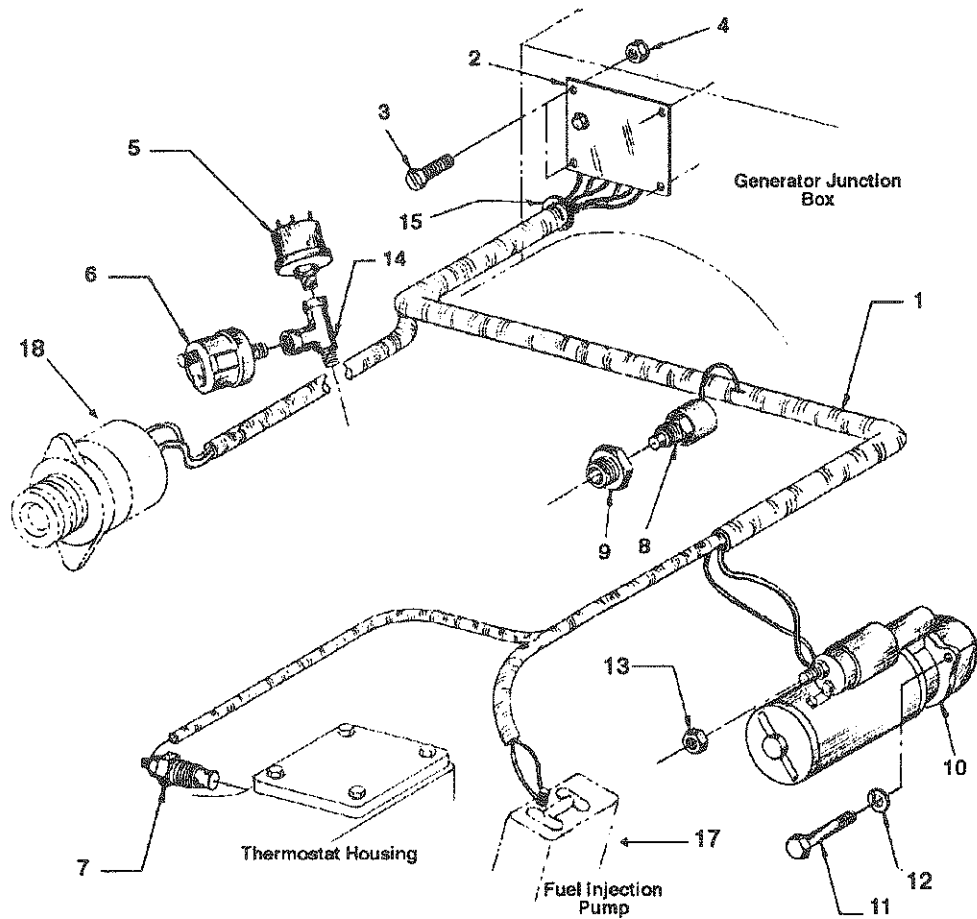
A6074, A6076/C-2938

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	22-41651	1	Wire Harness	-
2	22-70007	1	Dual Station Relay Board, 12Volt (see parts detail)	-
	22-70018	1	Dual Station Relay Board, 24Volt (see parts detail)	-
3	12-00001	4	Machine Screw, Stainless 10-32 3/4"	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Switch, Oil Pressure	-
6	22-41016	1	Sender, Oil Pressure	-
7	22-41026	1	Sender, Water Temperature	-
8	22-40925	1	Temperature Switch 215°F	-
9	21-41101	1	Bushing, Brass 1/2NPT	-
10	RE13722	1	Starter Motor, 12Volt (see mounting detail)	-
	22-41639	1	Starter Motor, 24Volt (former #22-41637 – see mounting detail)	-
11	12-00313	3	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
12	15-00302	3	Lock Washer, Helical 3/8	-
13	14-00311	1	Hex Nut 3/8-16	-
14	21-05400	1	Street Tee, Steel 1/8NPT	-
15	00-41015	1	Universal Bushing, Plastic	-
16	22-40402	1	Ground Wire with Terminals #8AWG (24 Volt Starter – not shown)	-
17	RE37089	1	Stop Solenoid, 12 Volt	-
	22-51000	1	Stop Solenoid, 24 Volt	-
18	RE31694	1	Alternator, 12Volt/78AMP (see assembly detail)	-
	22-71051	1	Alternator, 24Volt/42AMP (see assembly detail)	-
19	22-40402	1	Ground Wire with Terminals #8AWG (24 Volt Starter – not shown)	-

ELECTRICAL SYSTEM

12 & 24 VOLT ENGINE ELECTRICAL ISOLATED GROUND

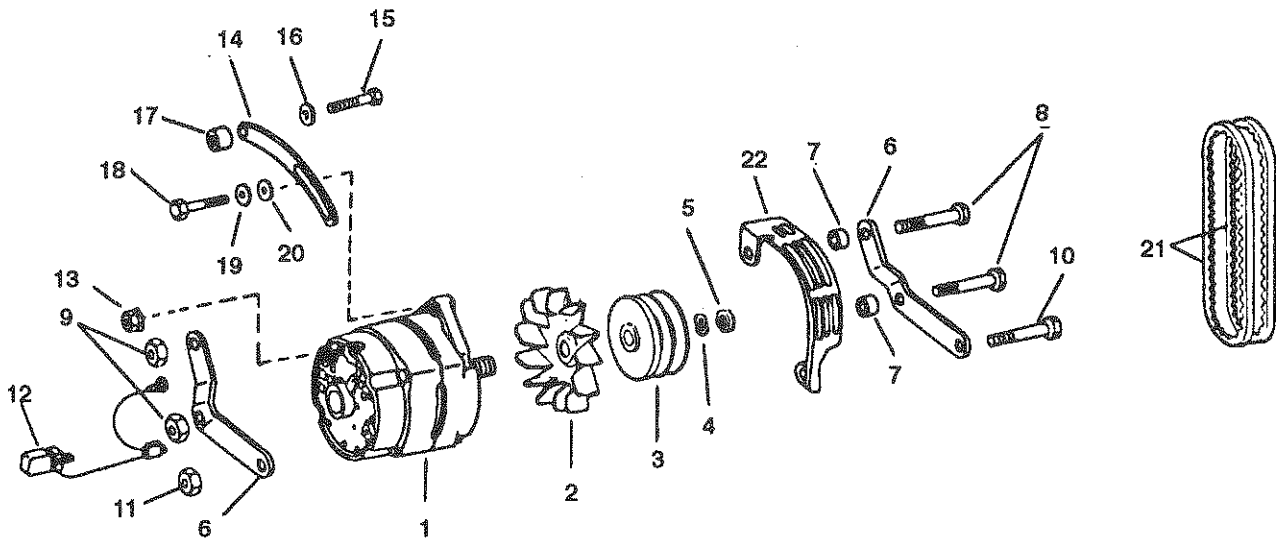
Marine Generator Sets Only



A6077, A6075/C-2938A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	22-41627	1	Wire Harness	-
2	22-70007	1	Dual Station Relay Board, 12Volt (see parts detail)	-
	22-70018	1	Dual Station Relay Board, 24Volt (see parts detail)	-
3	12-00001	4	Machine Screw, Stainless 10-32 3/4"	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Switch, Oil Pressure	-
6	22-42803	1	Sender, Oil Pressure	-
7	22-42802	1	Sender, Water Temperature	-
8	22-40925	1	Temperature Switch 215°F	-
9	21-41101	1	Bushing, Brass 1/2NPT	-
10	22-41636	1	Starter Motor, 12Volt Isolated Ground (see mounting detail)	-
	22-41639	1	Starter Motor, 24Volt Isolated Ground (former #22-41637 – see mounting detail)	-
11	12-00313	3	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
12	15-00302	3	Lock Washer, Helical 3/8	-
13	14-00311	1	Hex Nut 3/8-16	-
14	21-05400	1	Street Tee, Steel 1/8NPT	-
15	00-41015	1	Universal Bushing, Plastic	-
17	RE37089	1	Stop Solenoid, 12 Volt	-
	22-51000	1	Stop Solenoid, 24 Volt	-
18	10-134	1	Alternator, 12Volt/72AMP Isolated Ground (see assembly detail)	-
	22-71052	1	Alternator, 24Volt/35AMP Isolated Ground (see assembly detail)	-

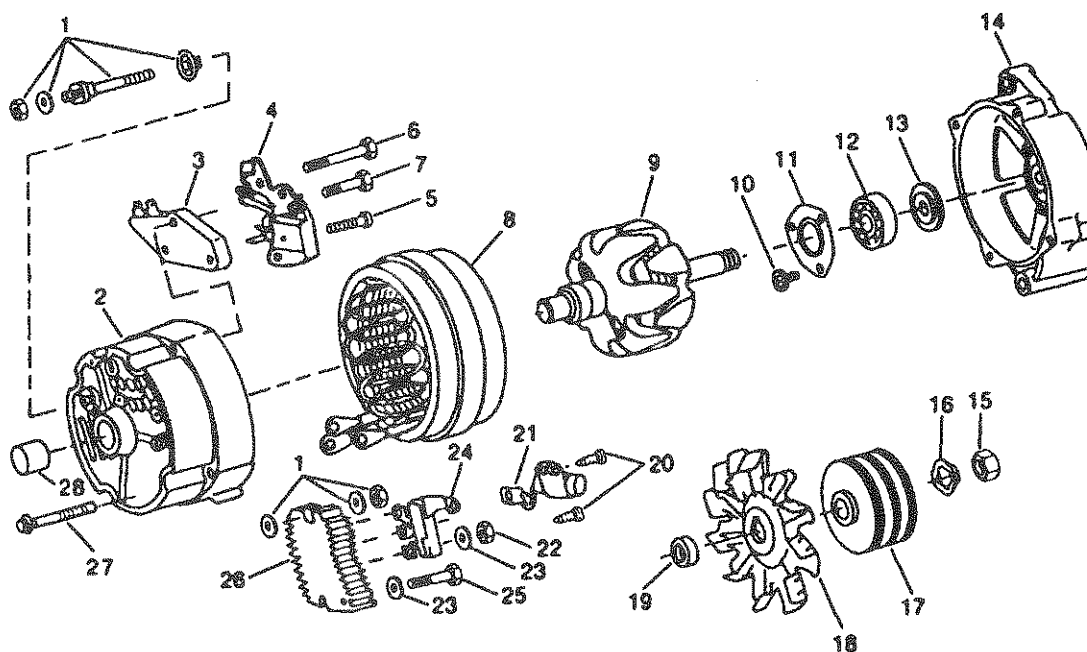
ELECTRICAL SYSTEM

12 VOLT/78 AMP ALTERNATOR and MOUNTING

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE31694	1	Alternator (includes Keys 4-5 & 23 – see parts detail)	-
2	R87764	1	Fan	-
3	T42171	1	Pulley 1800 RPM & Variable Speed	-
	34-41016	1	Pulley 1200 RPM	-
4	T10745	1	Washer	-
5	R11049	1	Hex Nut	-
6	R57260	2	Mounting Bracket	-
7	28H862	2	Spacer	-
8	12-00310	2	Capscrew, Hex Head 3/8-1 x 3"	-
9	14-00311	2	Hex Nut 3/8-16	-
10	12-00049	1	Capscrew, Hex Head M10 x 1.5 x 80mm	-
11	14-00812	1	Nylock Nut M10 x 1.5	-
12	AR55283	1	Wire Harness	-
13	14-04803	1	Nylock Nut M6 x 1.0	-
14	R108404	1	Tensioner	-
15	12-00316	1	Capscrew, Hex Head 3/8-16 x 2"	-
16	15-00300	3	Flat Washer 3/8 (special)	-
17	28H1518	1	Spacer	-
18	12-00712	1	Capscrew, Hex Head M8 x 1.25 x 25mm	-
19	15-00702	1	Lock Washer M8	-
20	15-00201	1	Stud Washer	-
21	RE51551	1	Belt Set 1800 RPM & Variable Speed	-
	AT24833	1	Belt Set 1200 RPM	-
22	R56012	**	Guard	-
23	R69645	1	Fan Spacer (not shown)	-
**As Required				

ELECTRICAL SYSTEM

ALTERNATOR 12 VOLT 78AMP

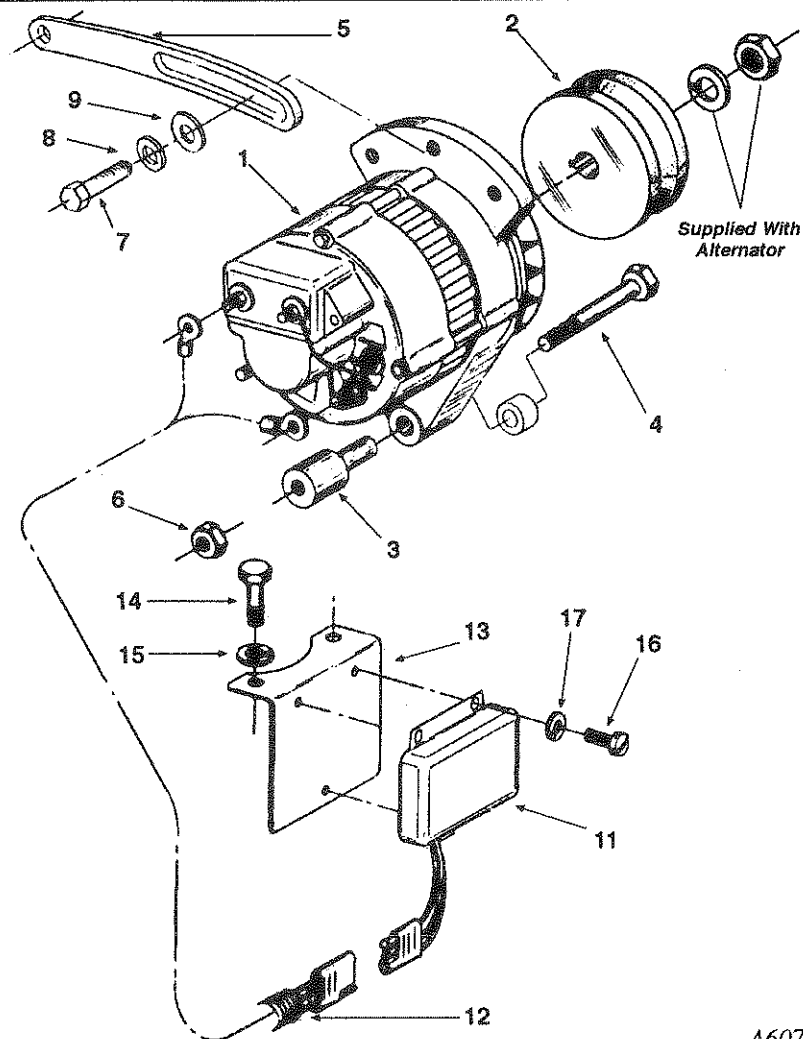


TP26835, T59439

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
∞	RE31694	1	Alternator Assembly (includes Keys 1-6 & 19-28)	-
1	AR93945	1	Nut	-
2	R71400	1	Housing	-
3	AR55827	1	Voltage Regulator	-
4	AR85941	1	Brush Holder	-
5	R66302	1	Screw	-
6	R76186	1	Screw	-
7	R51530	2	Screw	-
9	RE13801	1	Rotor	-
10	21H1301	3	Screw	-
11	R78755	1	Retainer	-
12	JD9449	1	Ball Bearing	-
13	R51534	1	Shim	-
14	R71399	1	Housing	-
15	R11049	1	Nut	-
16	T10745	1	Washer	-
17	T42171	1	Pulley	-
18	R87764	1	Fan	-
19	R69645	1	Washer	-
20	37H2	2	Screw	-
21	AR55835	1	Capacitor	-
22	14H605	3	Nut	-
23	12H290	3	Washer #8	-
24	RE13798	1	Diode	-
25	21H1319	1	Screw	-
26	AR55832	1	Rectifier	-
27	R51535	4	Bolt	-
28	AR77851	1	Roller Bearing	-

ELECTRICAL SYSTEM

OPTIONAL ALTERNATORS and MOUNTING

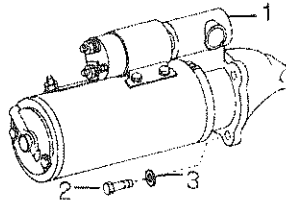


A6079, A6080, A6081/C-2968

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-134	1	Alternator – 12Volt 72Amp, Isolated Ground	-
	22-71051	1	Alternator – 24Volt 42Amp, Standard Ground	-
	22-71052	1	Alternator – 24Volt 35Amp, Isolated Ground	-
2	34-41019	1	Pulley, 2 Groove	-
3	31-71101	1	Adapter	-
4	12-00819	1	Capscrew, Hex Head M10 x 1.5 x 75mm	-
5	R108404	1	Tensioning Arm	-
6	14-00812	1	Hex Nut, Nylock M10 x 1.5mm	-
7	12-00312	1	Capscrew, Hex Head 3/8-16 x 1" (12Volt)	-
	12-00212	1	Capscrew, Hex Head 5/16-18 x 1" (24Volt)	-
8	15-00302	1	Lock Washer, Helical 3/8 (12Volt)	-
	15-00202	1	Lock Washer, Helical 5/16 (24Volt)	-
9	15-00012	1	Stud Washer 3/8 (12Volt)	-
	15-00201	1	Stud Washer 5/16 (24Volt)	-
10	21-41103	1	Spacer 25mm OD x 10mm ID x 8.5mm	-
11	5-141	1	D.C. Voltage Regulator*	-
12	16-1	1	Wire Harness*	-
13	23-41005	1	Bracket*	-
14	12-00214	2	Capscrew, Hex Head 5/16-18 x 1-1/2"	-
15	15-00202	2	Lock Washer, Helical 5/16"	-
16	15-00033	3	Lock Washer, Helical #10"	-
17	12-00015	1	Machine Screw, BH Phillips #10-32 x 3/8"	-

*For 12Volt 72Amp Alternator only.

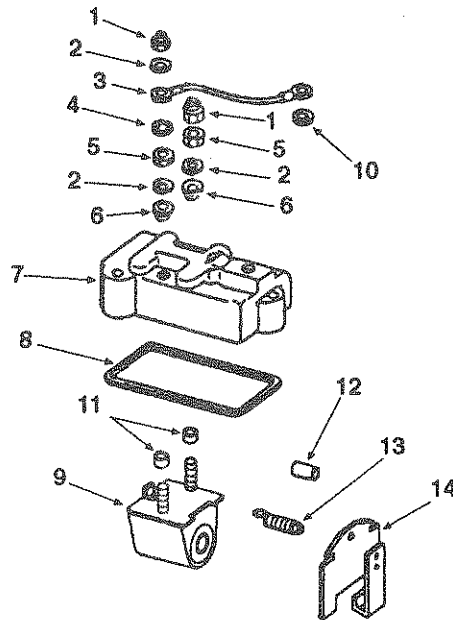
ELECTRICAL SYSTEM

STARTER MOTOR and ATTACHING PARTS*(12 Volt Standard Ground)*

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	RE13722	1	Starter 12Volt Standard Ground*	-
	22-41629	1	Starter 12Volt Isolated Ground*	-
	22-41636	1	Starter 12Volt Isolated Ground*	-
	22-41630	1	Starter 24Volt Standard Ground*	-
	22-41637	1	Starter 24Volt Isolated Ground*	-
	22-41639	1	Starter 24Volt Isolated Ground*	-
2	12-00313	3	Capscrew 3/8-16 x 1-1/4"	-
3	15-00302	3	Lockwasher 3/8"	-
			* Solenoid Assemblies for above Starters	
	RE13732	1	Solenoid for RE13722	
	22-41633	1	Solenoid for 22-41629 & 22-41636	
	22-41634	1	Solenoid for 22-41630	
	22-41638	1	Solenoid for 22-41637	
	22-41641	1	Solenoid for 22-41639	
			* Starters 22-41629, 22-41630 & 22-41637 will be discontinued when stock depleted. Current starters, which are direct replacements, will be supplied.	

ELECTRICAL SYSTEM

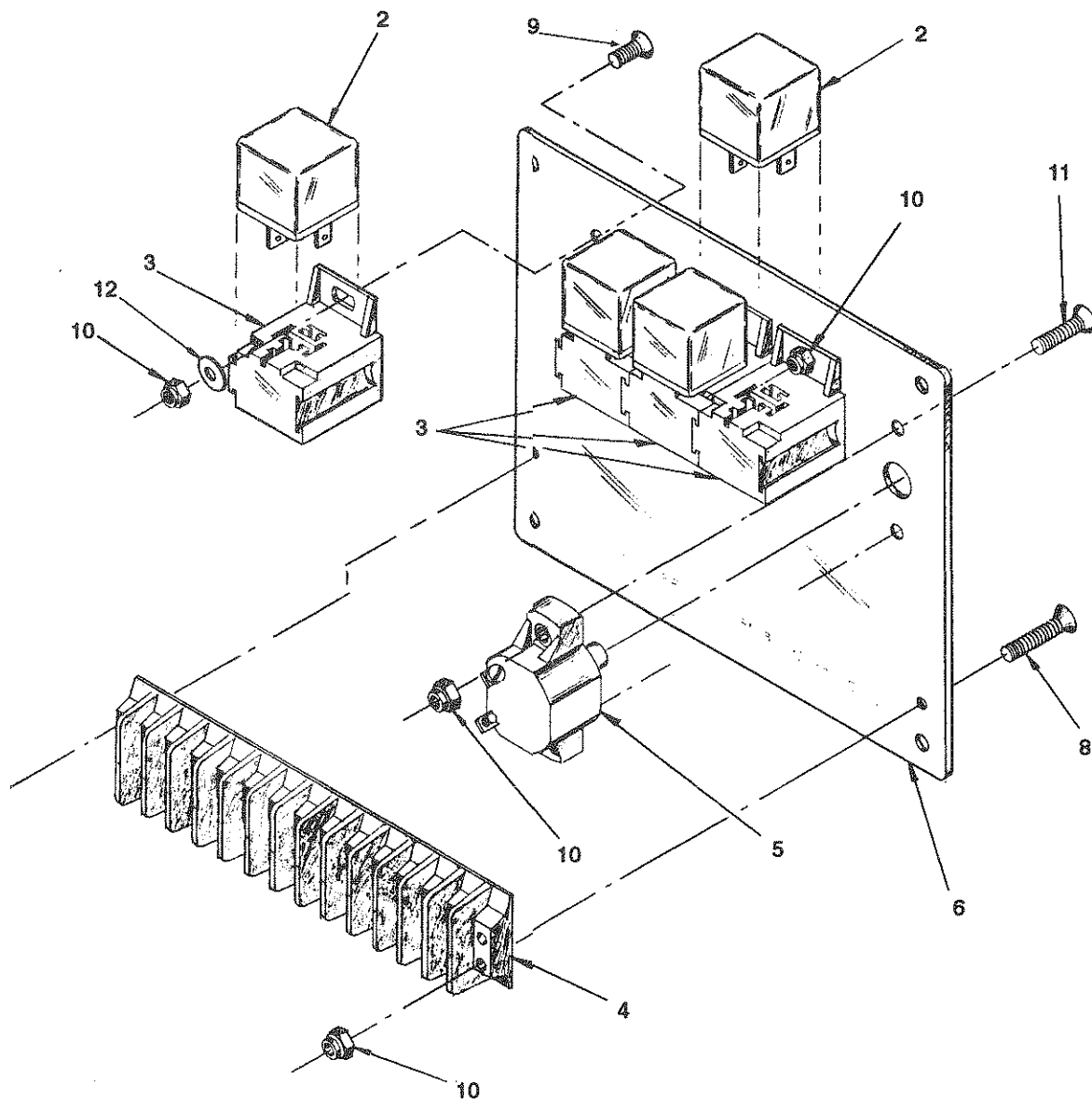
STOP SOLENOID 12 and 24 VOLT (INJECTION PUMP MOUNTED)



KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
∞	RE37091	1	Hardware Kit includes keys 1-6 & 10	-
1	M63431	2	Lock Nut	-
2		3	Washer (not available separately)	-
3	AR50874	1	Strap	-
4	R47077	1	Lock Washer	-
5		2	Nut (not available separately)	-
6		2	Washer (not available separately)	-
7	T11919	1	Cover	-
8	T11918	1	Gasket	-
9	RE37089	1	Solenoid Assy. 12Volt "High Force" (long body with molded plastic covering) includes keys 11-14.	-
	22-51000	1	Solenoid Assy. 24Volt "High Force" (long body with molded plastic covering) includes keys 11-14.	-
10	12H295	1	Internal Star Washer #10	-
11	T11937	2	Insulator	-
12	R48795	1	Sleeve	-
13	T11935	1	Spring	-
14		1	Shut-off Lever (not available separately)	-

ELECTRICAL SYSTEM

12 & 24 VOLT RELAY LOGIC BOARD



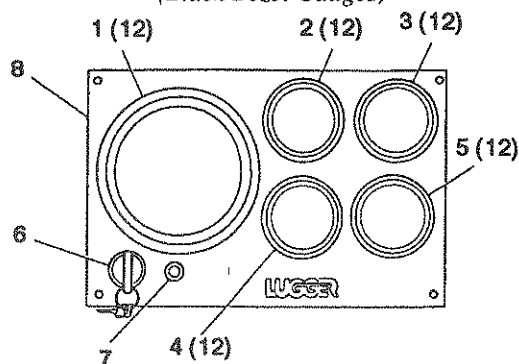
A-3122 & A-2931/C-2041B

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
..	22-70007	1	12V Relay Logic Board, complete (includes all keys)	-
..	22-70018	1	24V Relay Logic Board, complete (includes all keys)	-
1	22-41060	2	6AMP Diode (not shown)	-
2	22-42047	4	12Volt Relay SPDT	-
	22-42085	4	24Volt Relay SPDT	-
3	22-41032	4	Relay Base	-
4	22-41093	1	12 Connection Terminal Board, 600 VAC	-
5	22-40018	1	10AMP Circuit Breaker	-
6	28-40001	1	Relay Board Mounting Plate	-
8	12-00083	2	Machine Screw, Flat Head Countersunk #8-32 x 3/4"	-
9	12-00082	4	Machine Screw, Flat Head Countersunk #8-32 x 3/8"	-
10	14-00003	4	Nylock Hex Nut #8 x 32	-
11	12-00089	2	Machine Screw, Flat Head Countersunk #8-32 x 7/8"	-
12	15-00001	4	Flat Washer #8	-

ELECTRICAL SYSTEM

MAIN INSTRUMENT PANEL 12 VOLT L668

(Black Bezel Gauges)

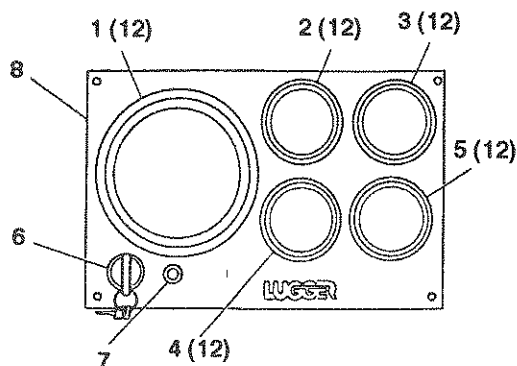


A-6629

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	22-91600	1	Main Instrument Panel (includes all Keys)	-
1	37-91602	1	Tachometer 0-3000RPM	-
2	37-40010	1	Oil Pressure Gauge 0-80PSI	-
3	37-40011	1	Temperature Gauge 250°F	-
4	37-40012	1	Voltmeter	-
5	37-40013	1	Hour Meter	-
6	37-91005	1	Ignition Switch	-
7	22-41049	1	Toggle Switch for Gauge Lights	-
8	37-91000	1	Plate	-
9	22-90004	1	Wire Harness (not shown)	-
10	22-00044	1	In-Line Fuse Holder (not shown)	-
11	22-41008	1	Fuse 7-1/2Amp (not shown)	-
12	22-44853	**	Bulb, Clear 12Volt	-
			**As Required	

MAIN INSTRUMENT PANEL 12 VOLT L668

(Chrome Bezel Gauges)



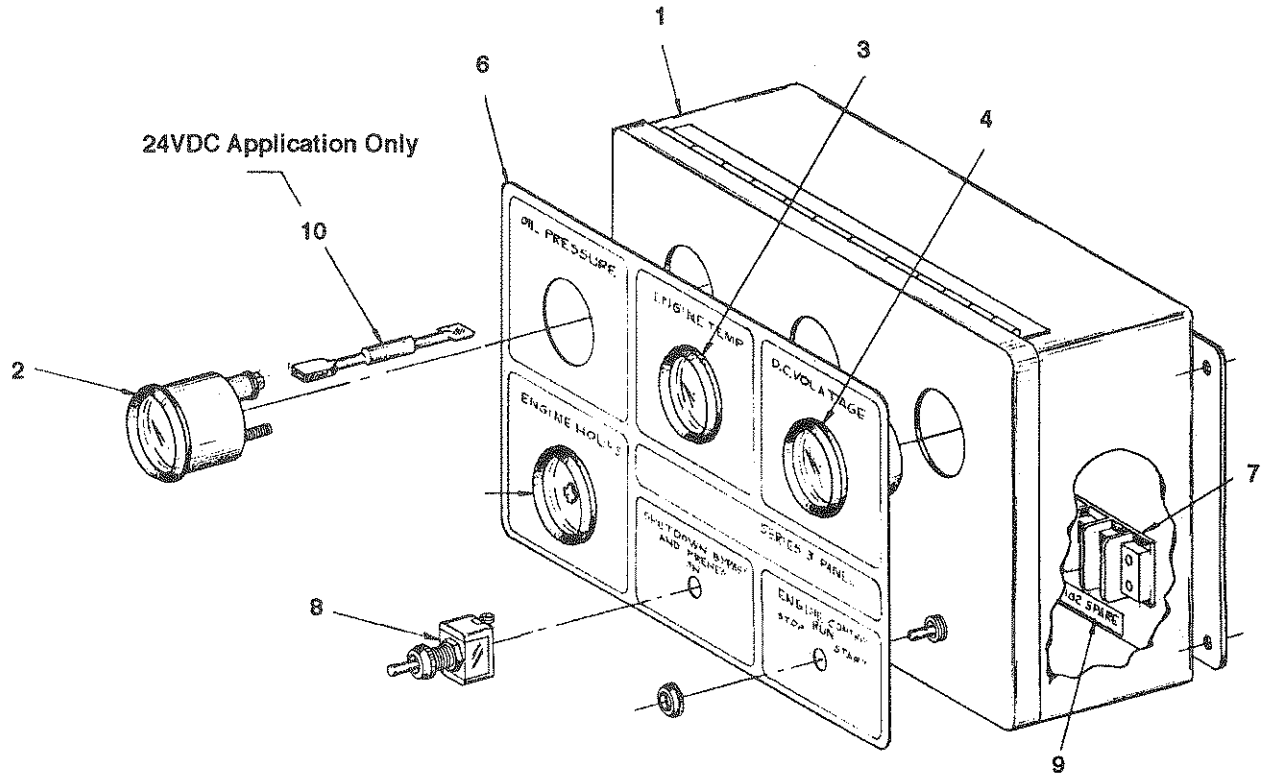
A-1541

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	22-41602	1	Main Instrument Panel (includes all Keys)	-
1	37-91029	1	Tachometer 0-3000RPM	-
2	37-92100	1	Oil Pressure Gauge 0-80PSI	-
3	37-91052	1	Temperature Gauge 250°F	-
4	37-91058	1	Voltmeter	-
5	37-91059	1	Hour Meter	-
6	37-91005	1	Ignition Switch	-
7	22-41049	1	Toggle Switch for Gauge Lights	-
8	37-91000	1	Plate	-
9	22-90004	1	Wire Harness (not shown)	-
10	22-00044	1	In-Line Fuse Holder (not shown)	-
11	22-41008	1	Fuse 7-1/2Amp (not shown)	-
12	22-44853	**	Bulb, Clear 12Volt	-
			**As Required	

ELECTRICAL SYSTEM

S-3B CONTROL PANEL 12 & 24 VOLT

Marine and Industrial Generators Sets



A4722, A4723/C-2470

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	22-91065	1	S-3B Control Panel 12 Volt (includes all Keys)	
**	22-91066	1	S-3B Control Panel 24 Volt (includes all Keys)	-
1	39-41008	1	Enclosure	-
2	37-40010	1	Oil Pressure Gauge	-
3	37-40012	1	Engine Temperature Gauge	-
4	37-40012	1	D.C. Volt Meter, 12Volt	-
	37-40014	1	D.C. Volt Meter, 24Volt	-
5	37-40013	1	Hour Meter	-
6	00-91018	1	Decal	-
7	22-41077	1	Terminal Board	-
8	22-41051	2	Switch	-
9	22-00051	1	Number Strip	-
10	22-40004	2	Resistor Kit (24Volt panel only)	-
11	22-44852	**	Bulb, 12Volt (not shown)	-
	22-44853	**	Bulb, 24Vott (not shown)	-

DRIVE BELTS and BELT GUARD APPLICATION CHART**Heat Exchanged & Keel Cooled****Alternators**

12 Volt 72 Amp
 12 Volt 78 Amp
 24 Volt 35 Amp
 24 Volt 42 Amp

Drive Belts M – NL668 & C-Series

RE51551 1500 – 1800 RPM
 AT24833 1200 RPM (12Volt 78Amp Alternator only)

Belt Guard M668 only

00-71698 Standard or 4-Groove Pulley (all RPM's)
 00-71695 With PTO (all RPM's)

Alternator

12 Volt 130 AMP

Drive Belt M – NL668 & C-Series

AR54592 1500 – 1800 RPM only

Belt Guard M668 only

00-71038 Standard or 4-Groove Pulley (all RPM's)
 00-71039 With PTO (all RPM's)

GASKET SETS

OVERHAUL GASKET SET M668 & C-Series

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	29-01600	1	Gasket Kit for Engine Overhaul (without Turbocharger)	
**	29-01605	1	Gasket Kit for Engine Overhaul (with Turbocharger)	
**	29-01610	1	Gasket Kit for Engine Overhaul (with Turbocharger/Aftercooler)	
1	RE38555	1	Gasket (John Deere components)	
2	11-11013	1	Gasket, Thermostat Cover	-
3	11-11043	1	Gasket, Heat Exchange/Keel Cooled Adapter Mounting	-
4	11-11023	1	Gasket, Expansion Tank Mounting	-
5	11-30013	1	Gasket, Exhaust Flange	-
6	11-10015	2	Gasket, Thermostat	-
7	11-31615	1	Gasket Exhaust Flange	-
8	11-31011	7	Gasket, Exhaust Port/After Cooler Port	-
9	11-21011	2	Gasket, Intake Port	-
10	11-11611	1	Gasket, Water Port	-
11	11-31031	1	Gasket, Turbo Oil Return	-
12	11-31012	1	Gasket, Turbo Oil Feed	-
13	16-01000	1	O-Ring, Turbo Oil Return	-
14	11-31401	1	Gasket, Turbo Mounting	-
15	11-22599	2	Gasket, Aftercooler Cover	-
16	R52811	2	O-Ring, Aftercooler Inlet/Outlet	-
17	AR67942	1	Crankshaft Seal, Front	-
18	RE44574	1	Crankshaft Seal, Rear	-
20	20-12522	2	End Cap Gasket for Heat Exchanger	-
			Note: Also order, as required	
		6	AR65507 Cylinder Liner Seal Kit	
		6	RE32011 Injector Packing Kit	
		6	R48000 Injector Tip Seal	
			All Gaskets Listed, Kit Contents Varied on Application	

CYLINDER HEAD REMOVAL

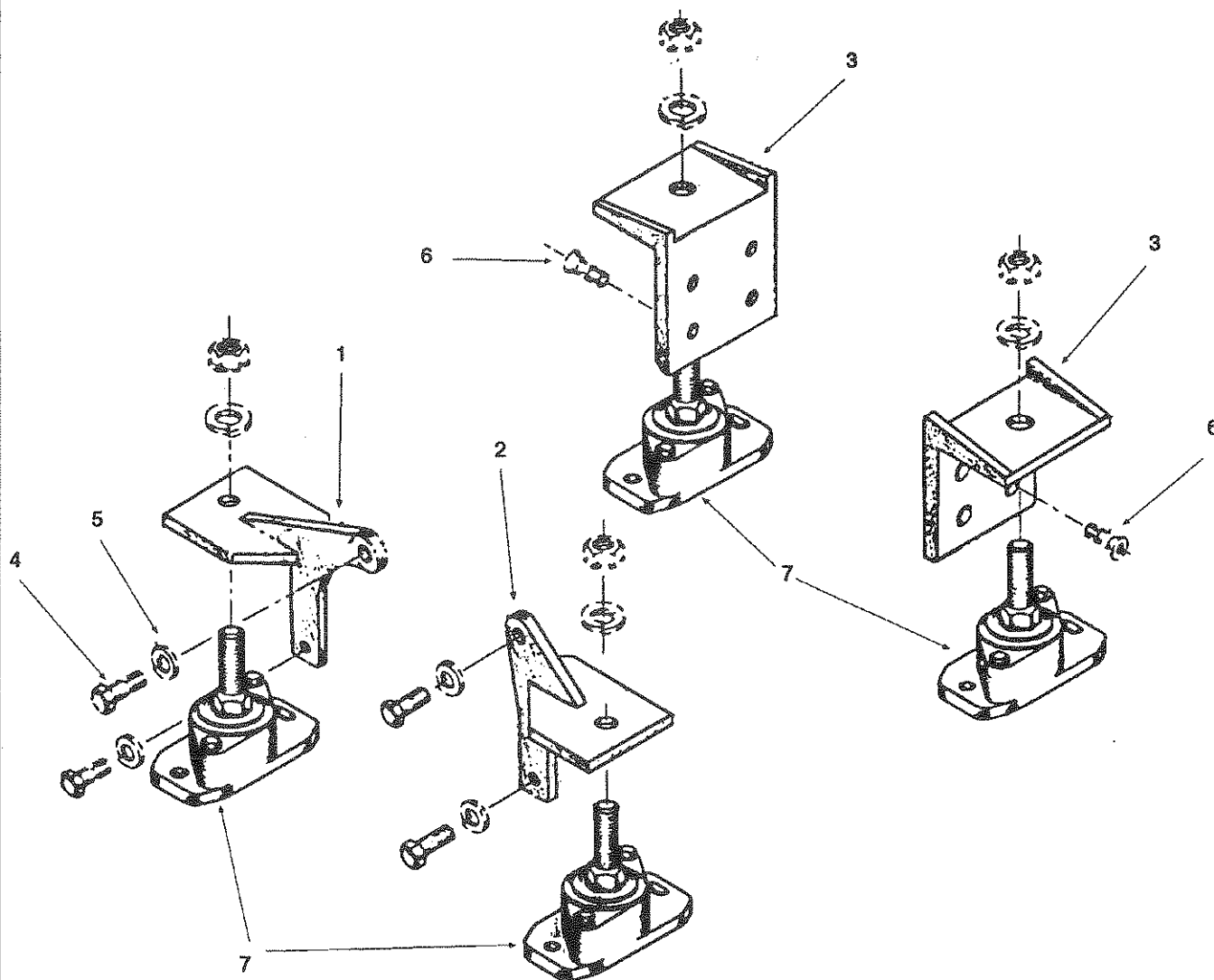
KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	RE38852	1	Gasket Set*	
1	R54638	1	Gasket, Thermostat Cover	-
2	R75728	1	Gasket, Rocker Arm Cover	-
3	R81275	2	Gasket, Air Inlet	-
4	R90658	6	Gasket, Exhaust Manifold	-
5	R56463	1	O-Ring, Vent Tube	-
6	R54641	1	Gasket, Thermostat Housing	-
7	R89879	1	Gasket, Turbocharger	-
8	R105346	1	Gasket, Turbocharger Oil Outlet	-
9	R97348	1	Gasket, Turbocharger Oil Inlet	-
10	R92426	1	Gasket	-
11	R87627	12	O-Ring, Valve Stem	-
12	R56461	1	O-Ring Thermostat Housing Bypass Tube	-
			Note: Also order as required	
			RE32011 6ea Gasket Kit for Fuel Injectors	
			R48000 6ea Seal Kit for Fuel Injectors	

GASKET SETS

ENGINE OVERHAUL				
KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	RE38555	1	Gasket Kit for Engine Overhaul (includes all Keys)	
1	R75728	1	Gasket, Rocker Arm Cover	-
2	R80632	2	O-Ring, Oil Pump Connector&Oil Pump Outlet Tube	-
3	R90648	1	Gasket, Cylinder Block Plate	-
4	R90658	6	Gasket, Exhaust Manifold	-
5	R77773	1	Gasket, Injection Pump Gear Cover	
6	R119269	1	Gasket, Timing Gear Cover	-
7	R56193	1	Gasket,Oil Cooler Housing, Outer	-
8	U13639	1	O-Ring, Coolant Heater Plug	-
9	R26286	1	O-Ring, To Injection Pump	-
10	R92426	1	Gasket, Cylinder Head	-
11	R56463	1	O-Ring, Vent Tube	-
12	R97351	1	Gasket, Flywheel Housing	-
13	R56192	1	O-Ring, Oil Cooler Housing, Inner	-
14	R54638	1	Gasket, Thermostat Cover	-
15	R98489	1	Gasket, Oil Cooler to Cylinder Block	-
16	R98488	1	Gasket, Oil Cooler	
17	R81275	3	Gasket, Air Inlet	-
18	R97352	1	Gasket, Oil Filler Inlet Cover	-
19	R98485	1	Gasket, Oil Cooler Lower Cover	-
20	R98484	1	Gasket, Oil Cooler	-
	R98471	1	Gasket, Oil Cooler Upper Cover	-
21	R89879	1	Gasket, Turbocharger	-
22	T20328	1	Gasket, Oil Filler Cap	-
23	AR65507	6	O-Ring Kit, Cylinder Liner Packing	-
24	R97344	1	Gasket, Oil Pan	
25	T20273	1	Gasket, Timing Gear Cover Opening	-
26	R105346	1	Gasket	-
27	R97350	1	Gasket, Fuel Pump	-
28	R61871	1	O-Ring, Oil Pump Intake	
29	R54641	1	Gasket, Water Outlet Housing	-
30	R97348	1	Gasket, Turbocharger to Oil Inlet Adapter	-
31	R56461	2	O-Ring, Water Bypass Tube	-
32	T20243	1	Gasket, Water Pump	-
Note: Also order, as required				
AR67942 1ea Crankshaft Seal, Front				
RE44574 1ea Crankshaft Seal, Rear				
AR65507 6ea Cylinder Liner Seal Kit				
RE32011 6ea Injector Packing Kit				
RE48000 6ea Injector Tip Seal				

FRAME & MOUNTING

ENGINE MOUNTING L668



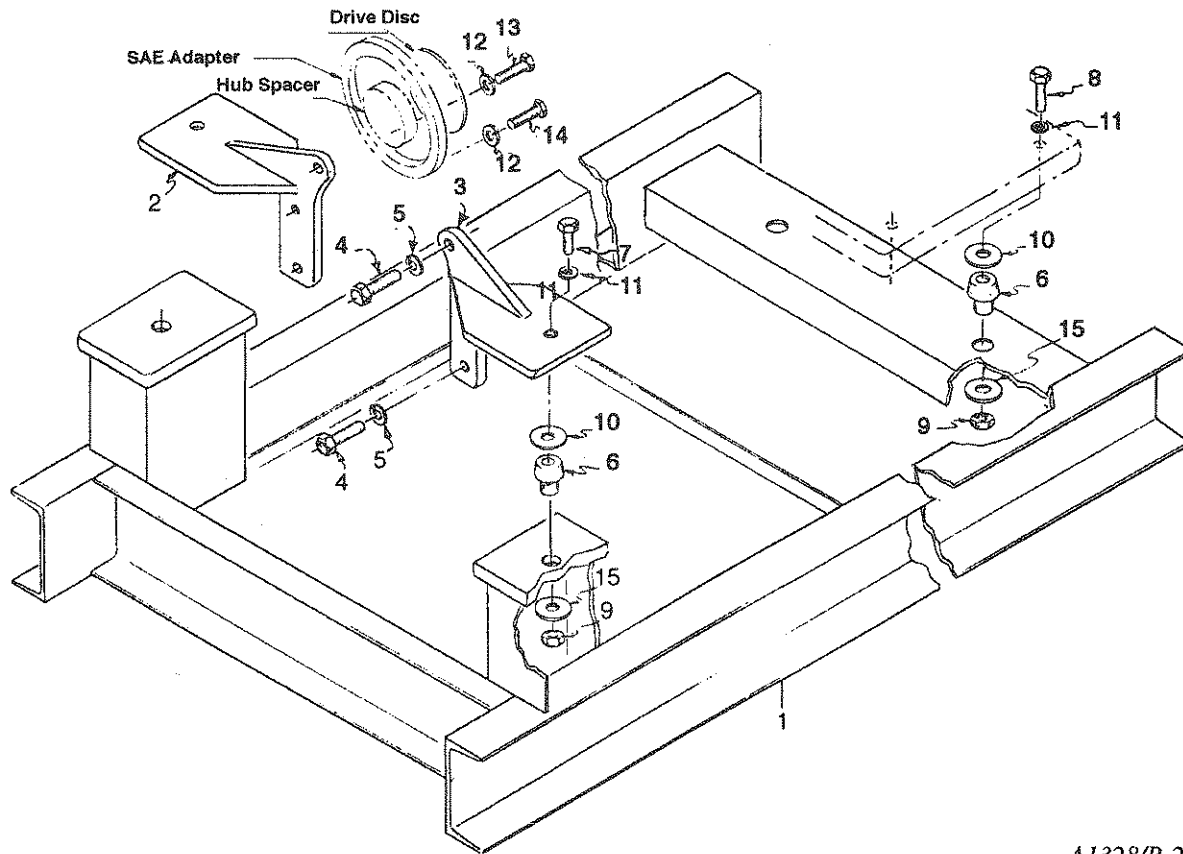
A470, A960, A1075D/B2086

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	23-81003	2	Mounting Bracket, Rear Engine	-
	23-81018	2	Mounting Bracket, Rear (used with Flex Mounts #7)	-
4	12-00913	4	Capscrew, Hex Head 5/8-11 x 1-1/2"	-
5	15-00902	4	Lock Washer 5/8"	-
6	12-81053	8	Screw, Flathead Socket 1/2-13 x 1-1/4"	-
7	33-74801	4	Flexible Mount (Optional)	-

FRAME & MOUNTING

BASE FRAME with CENTERBONDED MOUNTS for YACHT UNITS

Lima 360 Frame Generators

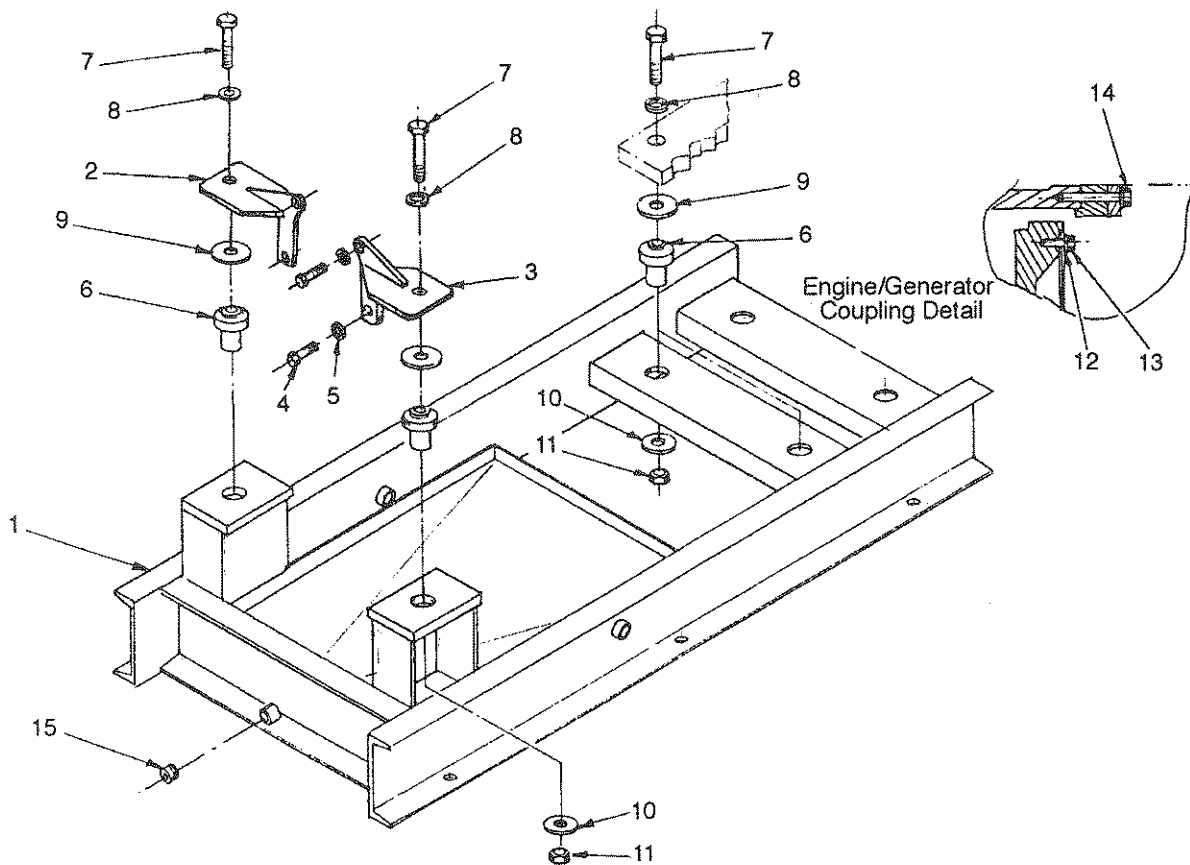


A1328/B-2220C

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	39-31612	1	Base Frame, Steel	-
	39-81642	1	Base Frame, Aluminum	-
2	23-81001	1	Mounting Bracket, Right Front	-
3	23-81002	1	Mounting Bracket, Left Front	-
4	12-00913	4	Capscrew Hex Head 5/8-11 x 1-1/2"	-
5	15-00902	4	Lock Washer 5/8	-
6	33-81002	4	Mount	-
7	12-00034	2	Capscrew Hex Head 5/8-11 x 3-1/2"	-
8	12-01430	2	Capscrew Hex Head 5/8-11 x 3-3/4"	-
9	14-00912	4	Hex Nut, Nylock 5/8-11	-
10	15-00015	4	Head Washer	-
11	15-01330	4	Flat Washer 5/8 SAE	-
12	15-00302	8	Lock Washer, Helical 3/8	-
13	12-00311	8	Capscrew, Hex Head 3/8-16 x 3/4"	-
14	12-20312	12	Capscrew, Socket Head 3/8-16 x 1"	-
15	15-00025	4	Tail Washer	-

BASE FRAME with CENTERBONDED MOUNTS for YACHT UNITS

Lima 440 Frame Generators

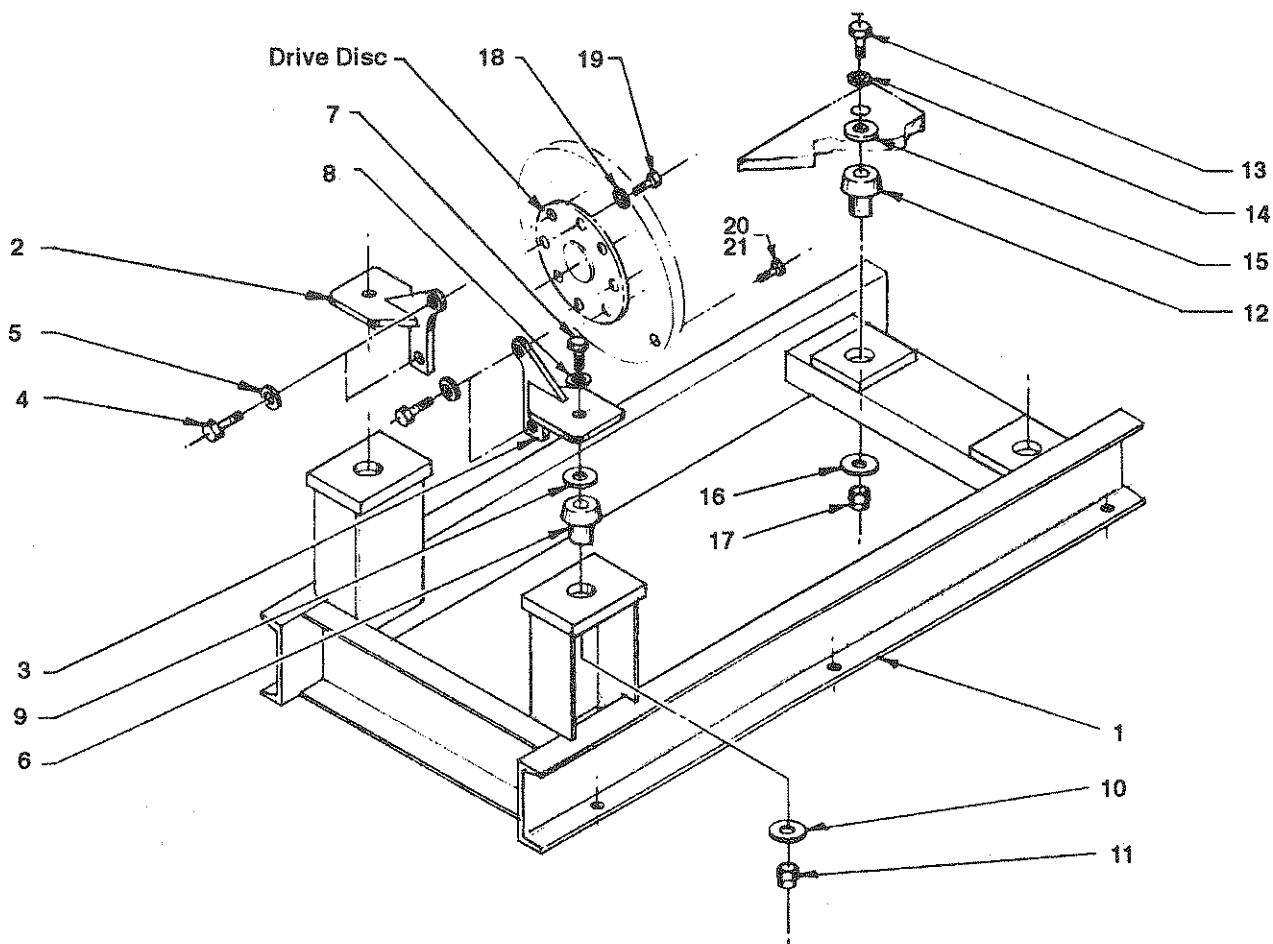


A1329, A3205/B-4528

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	39-81611	1	Base Frame, Steel	-
	23-81624	1	Base Frame, Aluminum	-
2	23-81001	1	Mounting Bracket, Right Front	-
3	23-81002	1	Mounting Bracket, Left Front	-
4	12-00913	4	Capscrew Hex Head 5/8-11 x 1-1/2"	-
5	15-00902	4	Lock Washer 5/8	-
6	33-81002	6	Mount	-
7	12-00034	6	Capscrew Hex Head 5/8-11 x 3-1/2"	-
8	15-01330	6	Flat Washer 5/8 SAE	-
9	15-00015	6	Head Washer	-
10	15-00025	6	Tail Washer	-
11	14-00912	6	Hex Nut, Nylock 5/8-11	-
12	15-00302	8	Lock Washer, Helical 3/8	-
13	12-00312	8	Capscrew, Hex Head 3/8-16 x 1"	-
14	12-20312	12	Capscrew, Socket Head 3/8-16 x 1"	-
15	21-00530	1	Plug, Hex Head Brass 1/2NPT	-

BASE FRAME with CENTERBONDED MOUNTS for C-Series

Lima and Stamford Generators



FRAME & MOUNTING

BASE FRAME with CENTERBONDED MOUNTS for C-Series

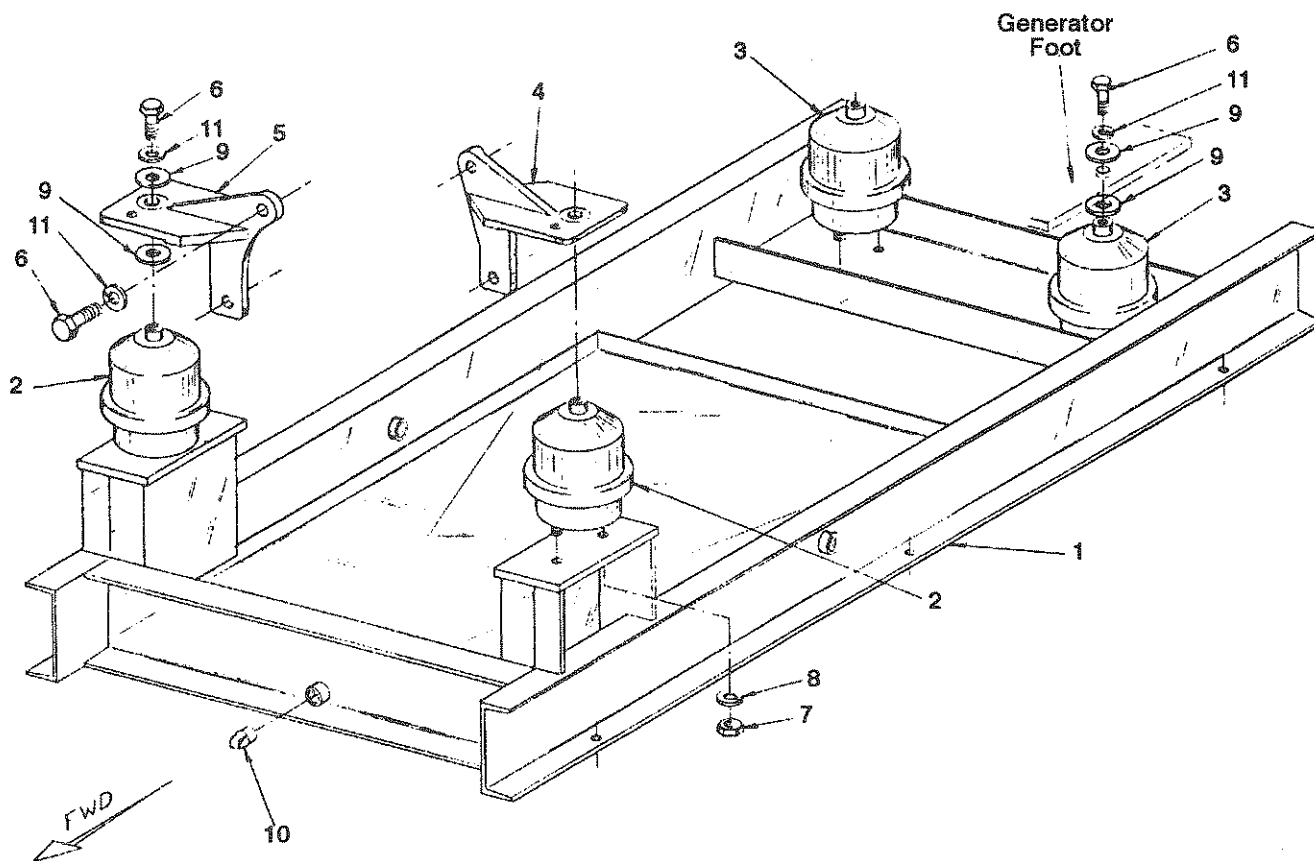
Lima and Stamford Generators

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	39-81011	1	Base Frame, M60C6 (Lima)	-
	39-81652	1	Base Frame, M60C6 (Stamford)	-
	39-81648	1	Base Frame, M80C (Lima)	-
2	23-81001	1	Bracket, Right Front Engine Mounting	-
3	23-81002	1	Bracket, Left Front Engine Mounting	-
4	12-00913	4	Capscrew, Hex Head 5/8-11 x 1-1/2"	-
5	15-00902	4	Lock Washer, Helical 5/8	-
6	33-81002	2	Mount	-
7	12-00034	2	Capscrew, Hex Head 5/8-11 x 3-1/2"	-
8	15-01330	2	Flat Washer 5/8 SAE	-
9	15-00015	2	Head Washer	-
10	15-00025	2	Tail Washer	-
11	14-00912	2	Hex Nut, Nylock 5/8-11	-
12	33-81002	2	Mount, M60C6 (Lima)	-
	33-85001	2	Mount M60C6 (Stamford)	-
	33-85001	2	Mount M80C (Lima)	-
13	12-01430	2	Capscrew, Hex Head 5/8-11 x 3-3/4", M65C-6 (Lima)	-
	12-01222	2	Capscrew, Hex Head 3/4-10 x 4" M65C-6 (Stamford)	-
	12-01224	2	Capscrew, Hex Head 3/4-10 x 4-1/2" M99C (Lima)	-
14	15-01330	2	Flat Washer, 5/8 SAE M65C-6 (Lima)	-
	15-01211	2	Flat Washer, 3/4 SAE M65C-6 (Stamford)	-
	15-01211	2	Flat Washer, 3/4 SAE M99C (Lima)	-
15	15-00015	2	Head Washer, M65C-6 (Lima)	-
	15-85000	2	Head Washer, M65C-6 (Stamford)	-
	15-85000	2	Head Washer, M99C (Lima)	-
16	15-00025	2	Tail Washer, M65C-6 (Lima)	-
	15-85001	2	Tail Washer, M65C-6 (Stamford)	-
	15-85001	2	Tail Washer, M99C (Lima)	-
17	14-00912	2	Hex Nut, Nylock 5/8-11 M65C-6 (Lima)	-
	14-01212	2	Hex Nut, Nylock 3/4-10 M65C-6 (Stamford)	-
	14-01212	2	Hex Nut, Nylock 3/4-10 M99C (Lima)	-
18	15-00302	8	Lock Washer, Helical 3/8 M65C-6 (Lima)	-
	15-00302	20	Lock Washer, Helical 3/8 M65C-6 (Stamford)	-
	15-00302	8	Lock Washer, Helical 3/8 M99C (Lima)	-
19	12-00311	8	Capscrew, Hex Head 3/8-16 x 3/4" M65C-6 (Lima&Stamford)	-
	12-00312	8	Capscrew, Hex Head 3/8-16 x 1" M99C (Lima)	-
20	12-00312	12	Capscrew, Socket Head 3/8-16 x 1" M65C-6 (Lima)	-
	12-00313	8	Capscrew, Hex Head 3/8-16 x 1-1/4" M65C-6 (Stamford)	-
	12-00312	12	Capscrew, Socket Head 3/8-16 x 1" M99C (Lima)	-
21	12-00314	4	Capscrew, Hex Head 3/8-16 x 1-1/2" (Lima&Stamford)	-

FRAME & MOUNTING

BASE FRAME with HYDROLASTIC MOUNTS for YACHT UNITS

Lima 360 Frame Generators



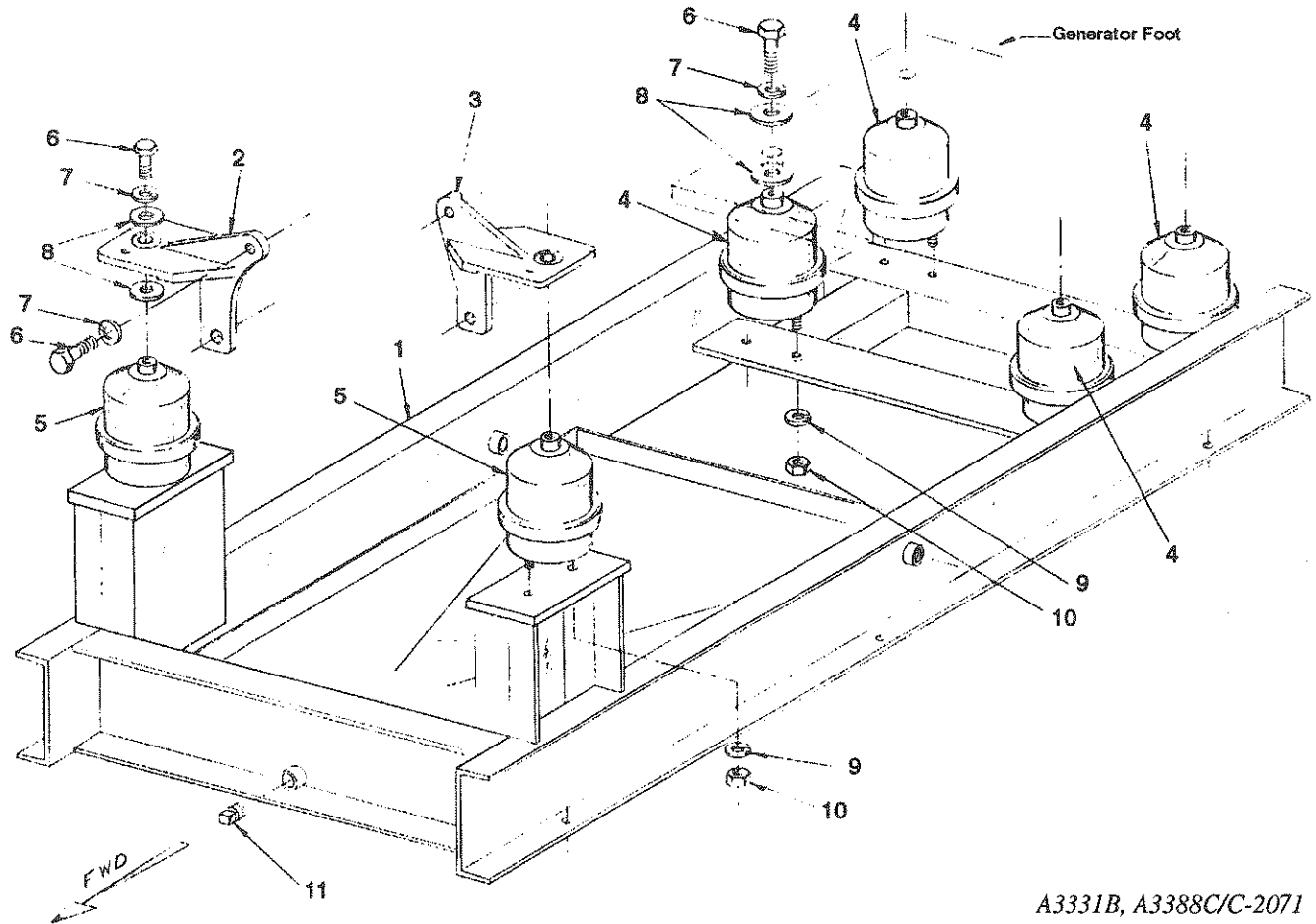
A3384, A3389B/C-2234

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	39-31635	1	Base Frame, Steel	-
	39-81636	1	Base Frame, Aluminum	-
2	33-81013	2	Hydrolastic Mount, Front	-
3	23-81014	2	Hydrolastic Mount, Rear	-
4	23-81002	1	Mounting Bracket, Left Front	-
5	23-81001	1	Mounting Bracket, Right Front	-
6	12-00913	8	Capscrew, Hex Head 5/8-11 x 1-1/2"	-
7	14-00511	8	Hex Nut 1/2-13	-
8	15-00502	8	Lock Washer 1/2	-
9	15-00901	8	Flat Washer 5/8	-
10	21-00531	2	Plug, Brass 1/2NPT	-
11	15-00902	4	Lock Washer 5/8	-
12	15-00302	8	Lock Washer 3/8*	-
13	12-00311	8	Capscrew, Hex Head 3/8-16 x 3/4**	-
14	12-20312	12	Capscrew, Hex Head 3/8-16 x 1"	-
*Note: Keys 12-14 for generator connection, not shown.				

FRAME & MOUNTING

BASE FRAMES with HYDROLASTIC MOUNTS for YACHT UNITS

Lima 440 Frame Generators

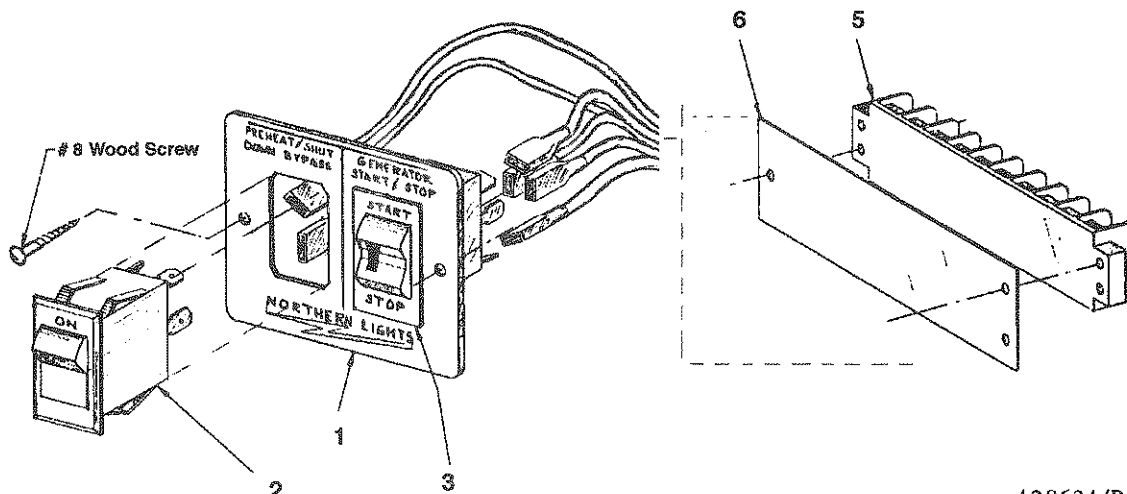


A3331B, A3388C/C-2071

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	39-31630	1	Base Frame, Steel	-
	39-81640	1	Base Frame, Aluminum	-
2	23-81001	1	Mounting Bracket, Right Front	-
3	23-81002	1	Mounting Bracket, Left Front	-
4	33-81012	4	Hydrolastic Mount, Rear	-
5	23-81014	2	Hydrolastic Mount, Front	-
6	12-00913	10	Capscrew, Hex Head 5/8-11 x 1-1/2"	-
7	15-00902	6	Lock Washer 5/8	-
8	15-00901	12	Flat Washer 5/8	-
9	15-00502	12	Lock Washer 1/2	-
10	14-00511	12	Hex Nut 1/2-13	-
11	21-00531	2	Plug, Brass 1/2NPT	-
12	15-00302	8	Lock Washer 3/8*	-
13	12-00312	8	Capscrew, Hex Head 3/8-16 x 1"	-
14	12-20312	12	Capscrew, Socket Head 3/8-16 x 1"	-
*Note: Keys 12-14 for generator connection, not shown.				

ACCESSORIES & OPTIONAL EQUIPMENT

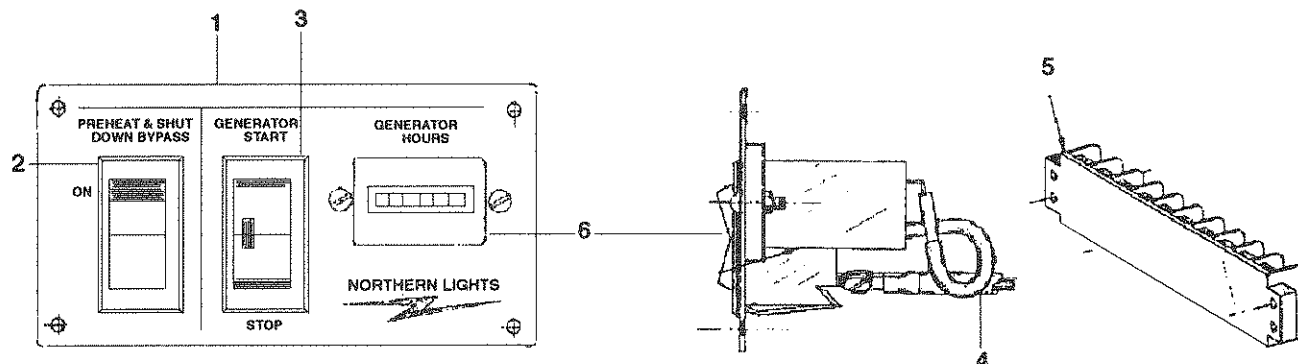
SERIES 1 CONTROL PANEL



A2863A/B-2873A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	22-90005	1	Series 1 Control Panel – 12 Volt (includes all Keys)	-
**	22-95435	1	Series 1 Control Panel – 24 Volt (includes all Keys)	-
1	00-40013	1	Plate, Series 1 Control Panel	-
2	22-90007	1	Rocker Switch (Shut Down By Pass)	-
3	22-90008	1	Rocker Switch (Start Stop)	-
4	22-40019	1	Wire Harness 18"	-
5	22-41077	1	Terminal Strip	-
6	22-00052	1	Number Strip	-
7	22-40012	1	Resistor (24 Volt Only – not shown)	-

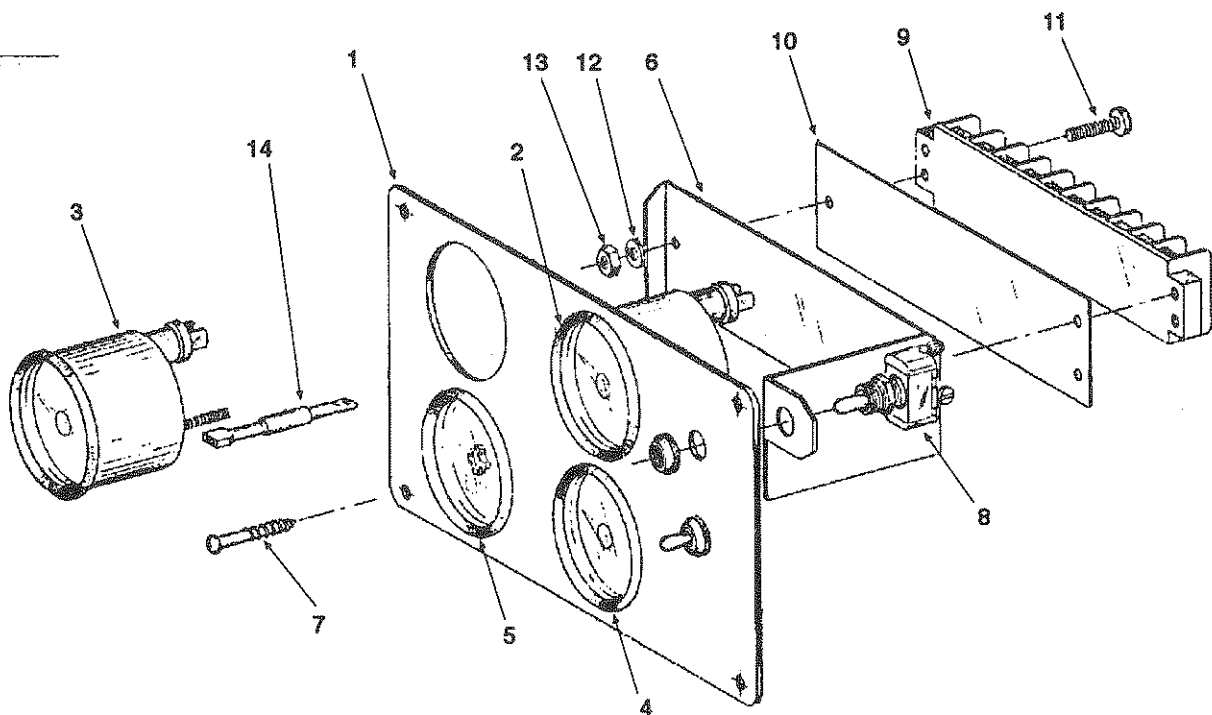
SERIES 1B CONTROL PANEL



A3171C/B-2986A

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	22-90006	1	Series 1B Control Panel – 12Volt (includes all Keys)	-
**	22-95430	1	Series 1B Control Panel – 24Volt (includes all Keys)	-
1	22-90003	1	Plate, Series 1 Control Panel	-
2	22-90007	1	Rocker Switch (Shut Down By Pass)	-
3	22-90008	1	Rocker Switch (Start Stop)	-
4	22-40019	1	Wire Harness 18"	-
5	22-41077	1	Terminal Strip	-
6	22-90009	1	Hour Meter	-
7	22-40012	1	Resistor (24 Volt Only - not shown)	-

SERIES S-3C FLUSH CONTROL PANEL



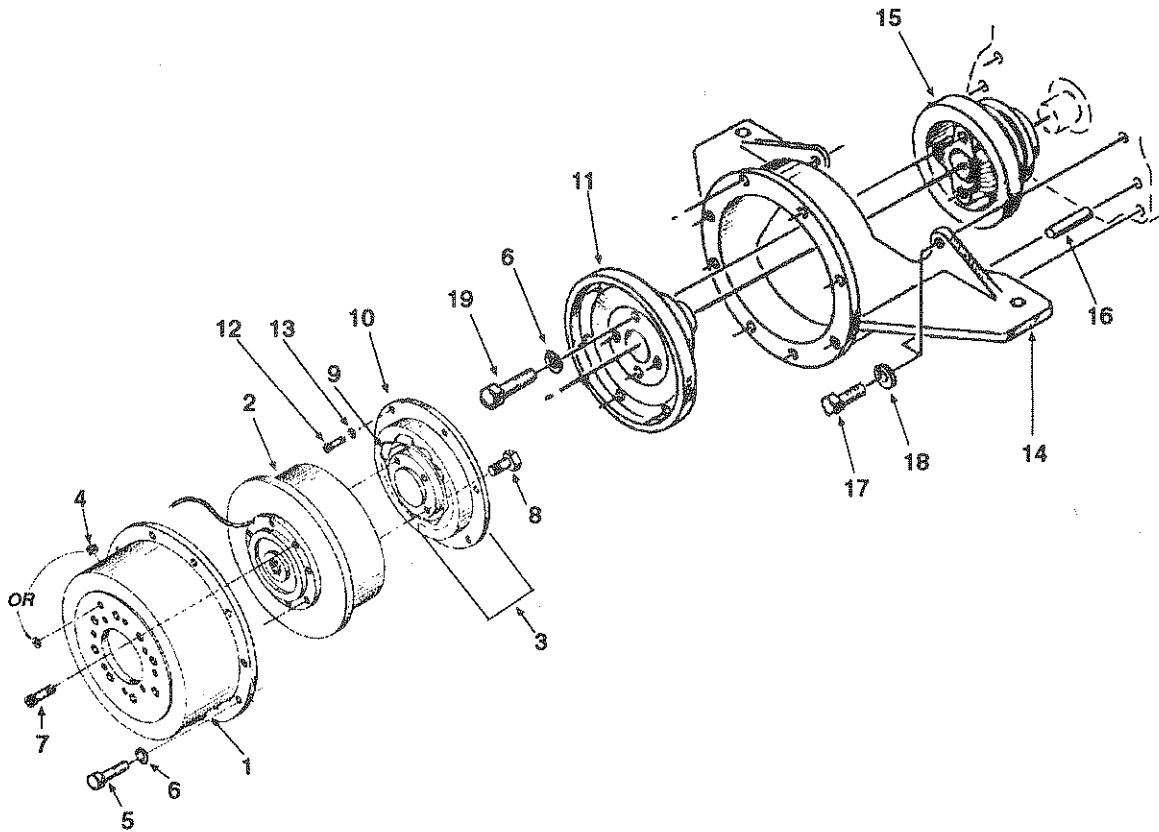
A4734/C-2465

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
**	22-91070	1	S-3C Flush Control Panel -12Volt (includes all Keys)	-
**	22-91071	1	S-3C Flush Control Panel - 24Volt (includes all Keys)	-
1	28-90010	1	Plate	-
2	37-40010	1	Oil Pressure Gauge 0 - 80PSI	-
3	37-40011	1	Engine Temperature Gauge 250°F	-
4	37-40012	1	D.C. Voltmeter 12Volt	-
	37-40014	1	D.C. Voltmeter 24Volt	-
5	37-40013	1	Engine Hour Meter	-
6	23-91019	1	Bracket	-
7	12-90001	4	Screw, Philips Round Head #6 x 1" Black	-
8	22-41051	2	Switch, Toggle	-
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 (24Volt Panel only)	-
15	22-44852	**	Bulb 12Volt (not shown)	-
	22-44853	**	Bulb 24Volt (not shown)	-
			**As Required	

ACCESSORIES & OPTIONAL EQUIPMENT

ELECTRIC CLUTCH and PTO ASSEMBLY L – M668

SAE 5/C-108



B-1991, C-2235, C-2309/A-4070B,
A-4071B, A-3856, A-3857B, A697

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-60004	1	Housing, B-Spline	-
	10-60003	1	Housing, C-Spline	-
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	12-00313	8	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
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"	-
9	34-72505	1	Spider Assembly	-
10	34-61452	1	Drive Ring	-
11	34-61612	1	PTO Carrier	-
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	-
15	34-61609	1	Damper	-
16	32-81001	2	Dowel Pin .625 x 1.5"	-
17	12-00913	4	Capscrew, Hex Head 5/8-11 x 1-1/2"	-
18	15-00902	4	Lock Washer, Helical 5/8	-
19	12-00314	4	Capscrew, Hex Head 3/8-16 x 1-1/2"	-

P668 12/93

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