



P6125H

For Models: L6125 and M6125

PARTS CATALOG

Marine Generators | Land-Based Generators





— CALIFORNIA —
Proposition 65 Warning:

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

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PART NO.: P6125 11/17



PARTS CATALOG

for Model L6125H

Please read thoroughly before attempting to use this manual:

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Proprietary Information

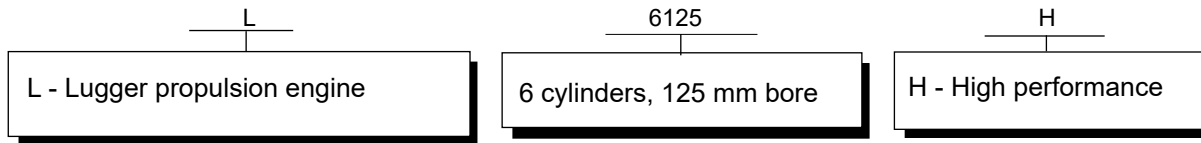
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INTRODUCTION

MODEL DESIGNATION

MODEL NUMBERS

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



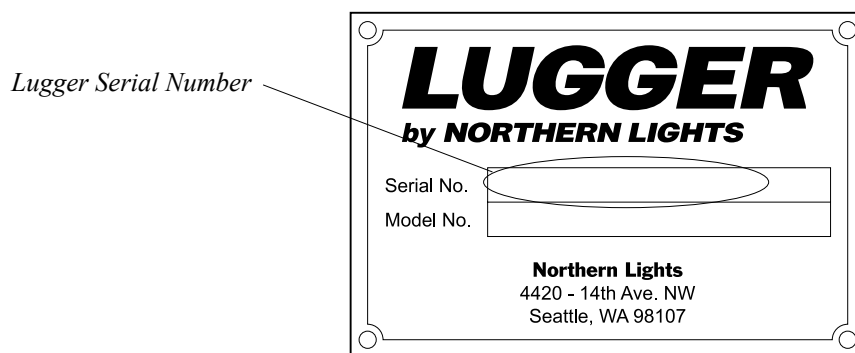
Example:

L6125H

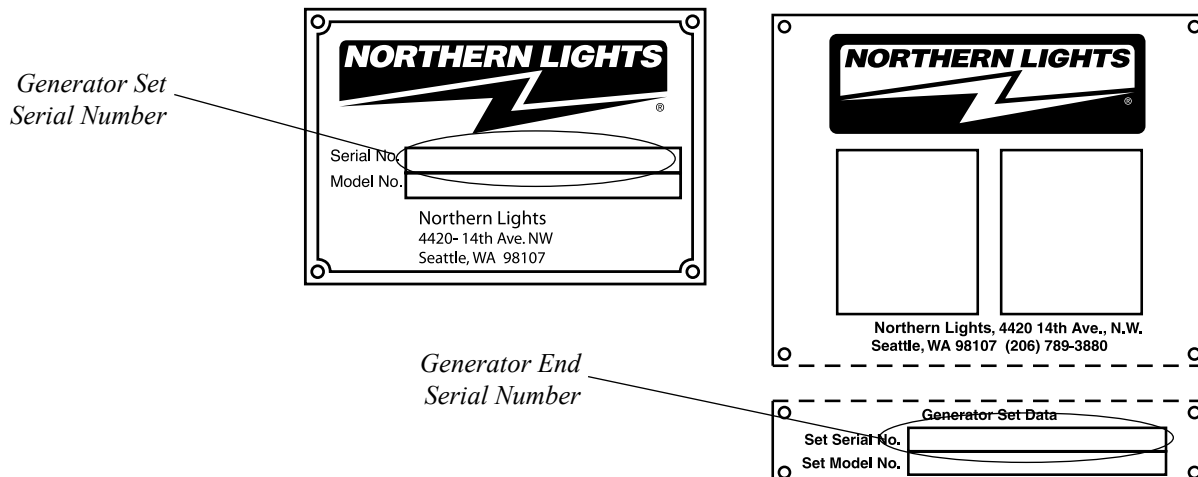
Lugger marine propulsion engine turbocharged and aftercooled, high pressure common rail.

SERIAL NUMBERS

LUGGER: Your Lugger propulsion engine has the serial number plate on the flywheel housing.



NORTHERN LIGHTS: 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. Serial Numbers for Northern Lights are eight digits. e.g. 1234-5678.

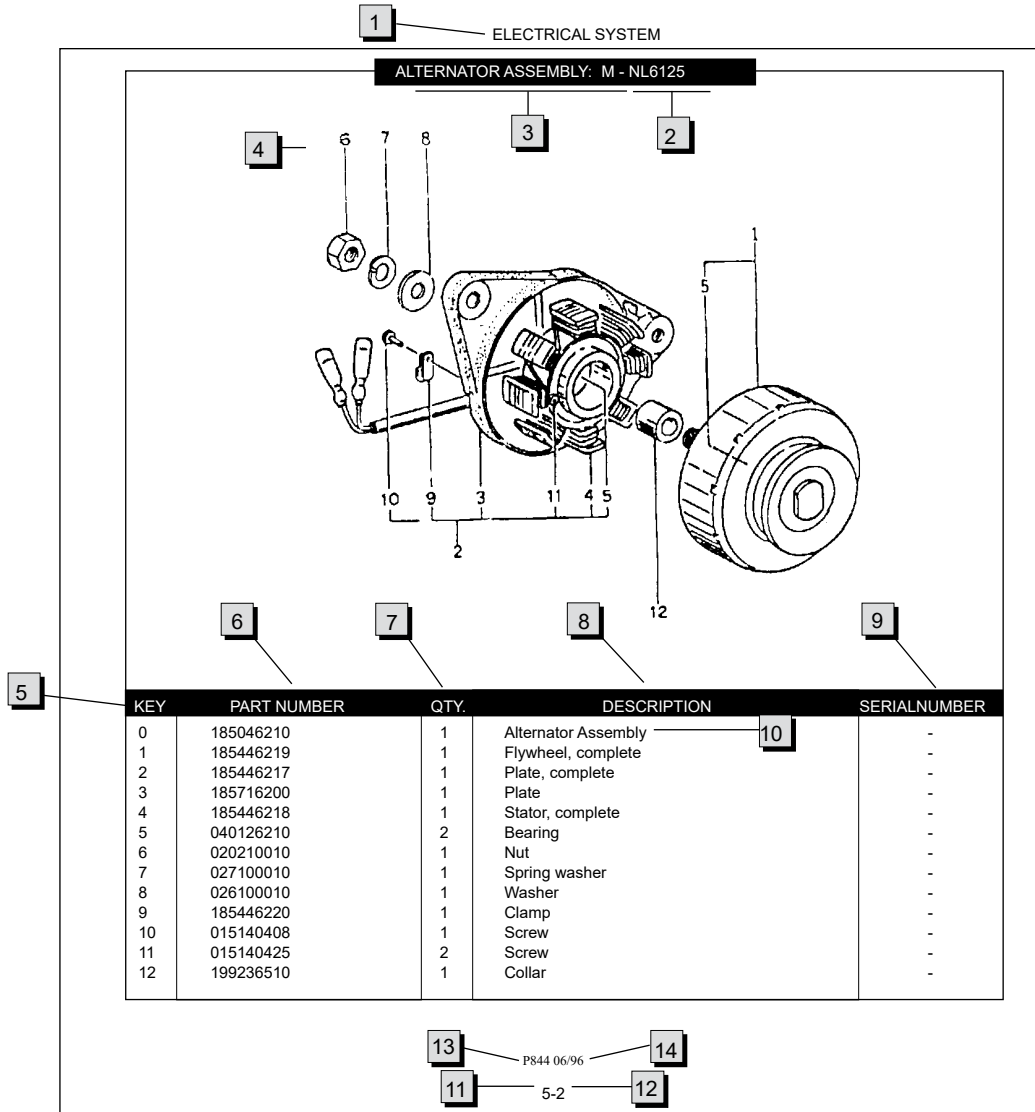


READING A PARTS PAGE

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.

**REFERENCES:**

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

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

CYLINDER BLOCK

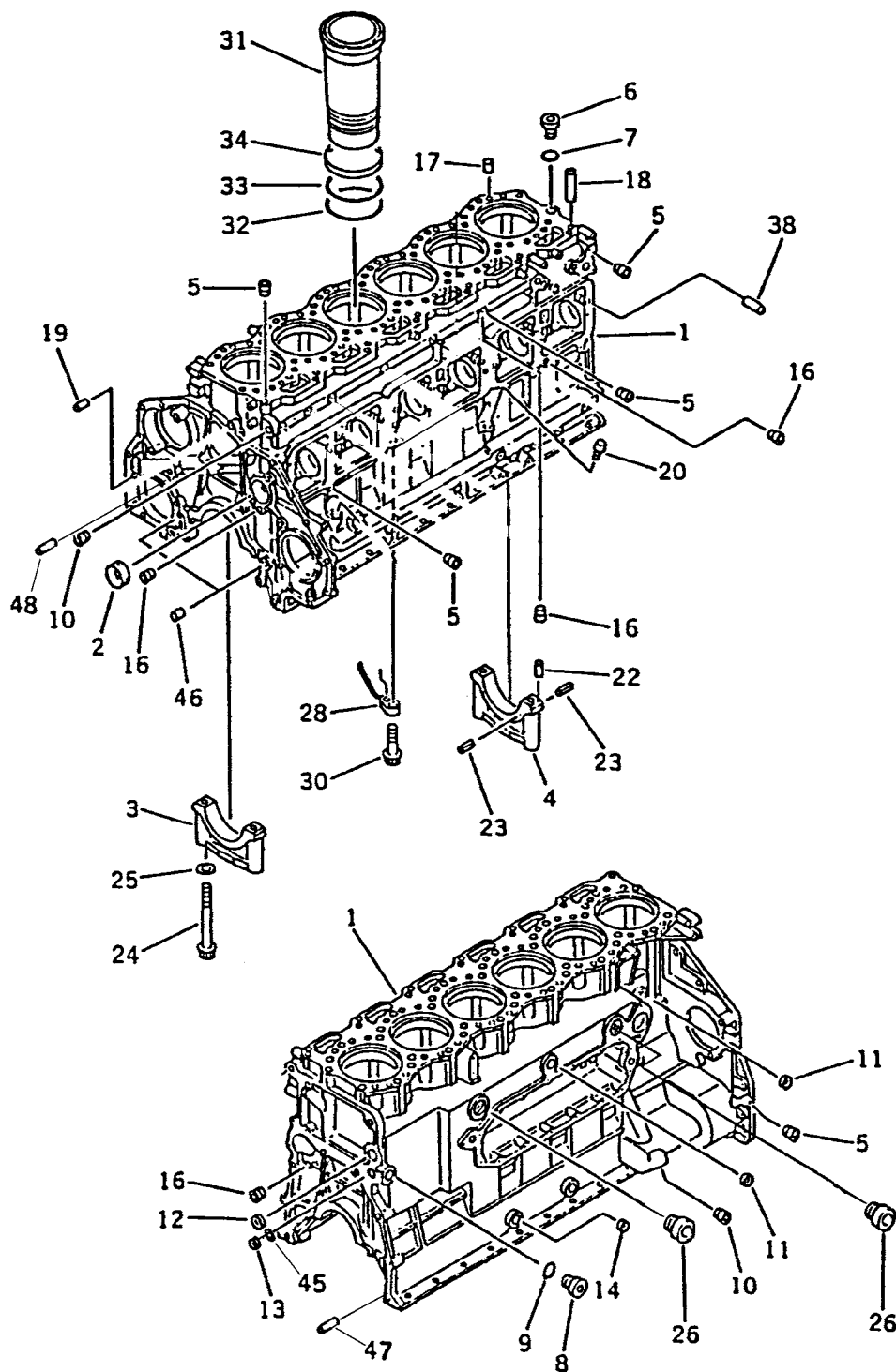


Fig. 201a

CYLINDER BLOCK

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6151-21-1100	1	Cylinder Block Assembly (includes keys 1-48)	-
2	6150-21-1490	7	Camshaft Bushing	-
3	6150-21-1210	6	Main Bearing Cap	-
4	6150-21-1250	1	Main Bearing Cap	-
5	07043-70108	8	Plug	-
6	07040-12414	1	Plug	-
7	07002-22434	1	O-ring	-
8	07040-13016	1	Plug	-
9	07002-23034	1	O-ring	-
10	07043-00617	3	Plug	-
11	07046-43016	3	Plug	-
12	07046-44016	1	Plug	-
13	6154-21-1981	1	Plug	-
16	07043-70211	3	Plug	-
17	04020-00820	12	Dowel Pin	-
18	6150-21-1170	1	Tube	-
19	6150-41-2430	1	Pin	-
22	04020-00514	2	Dowel Pin	-
23	04025-00408	6	Spring Pin	-
24	6150-21-1710	14	Bolt	-
25	01643-31645	14	Washer	-
26	07046-43516	3	Plug	-
28	6154-21-1810	6	Piston Cooling Nozzle	-
30	01435-00816	6	Bolt	-
31	6151-22-2220	6	Cylinder Liner	-
32	6150-21-2230	6	Lower O-ring	-
33	6150-21-2240	6	Upper O-ring	-
34	6150-21-2250	6	Crevice Seal	-
38	6150-41-2430	12	Pin	-
45	07000-72022	1	O-ring	-
46	6150-41-2440	2	Pin	-
47	6150-21-4770	2	Dowel Pin	-
48	04025-00512	1	Spring Pin	-

DIPSTICK , SIDE COVERS, CRANKCASE VENT

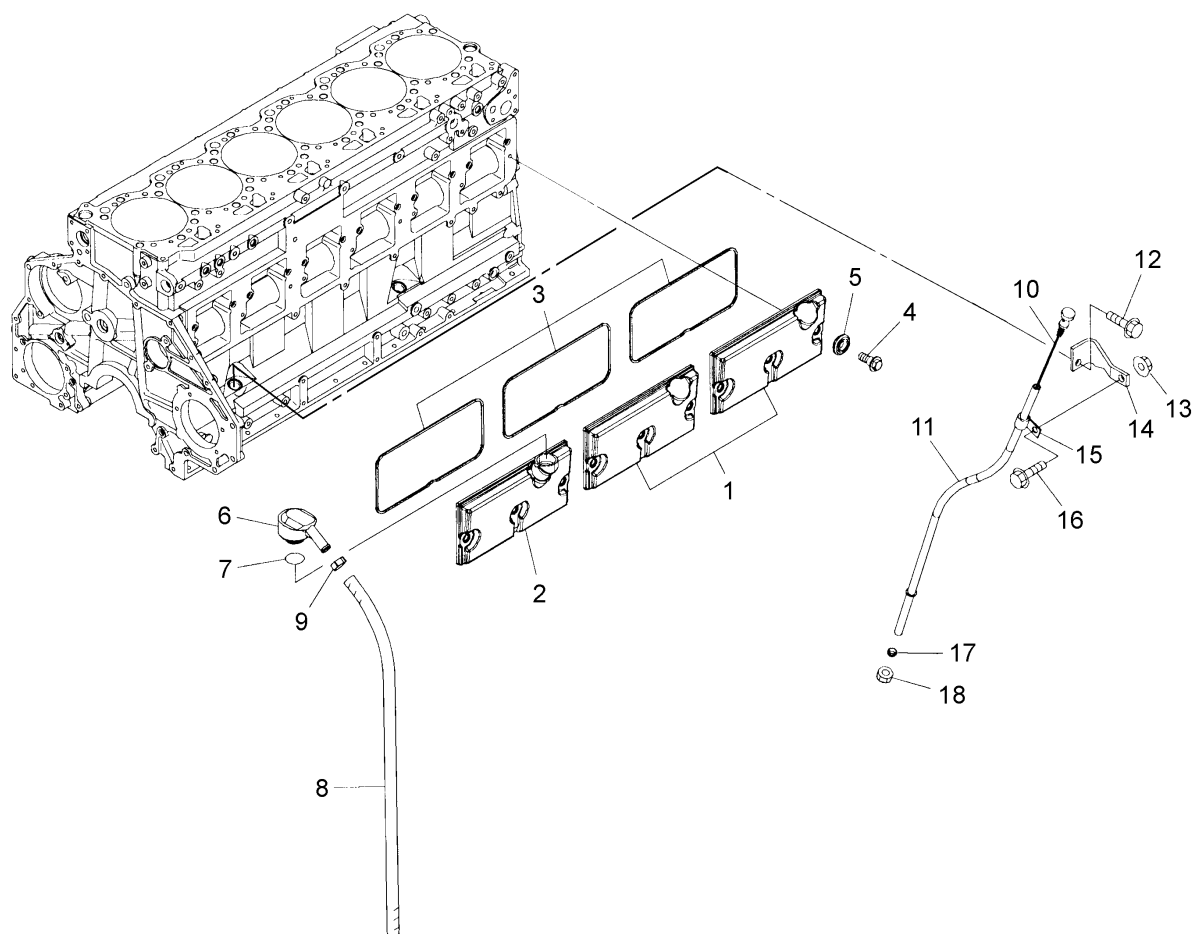


Fig. A2060A3H4

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6150-22-6430	2	Cam Follower Cover	-
2	6251-21-6700	1	Cam Follower Cover Assembly	-
3	6251-21-6450	3	Gasket	-
4	6210-21-6471	9	Bolt	-
5	6150-21-6391	9	Packing	-
6	6150-21-6710	1	Crankcase Breather	-
7	6114-21-5190	1	O-ring	-
8	07286-01985	1	Hose	-
9	07285-00220	1	Clip	-
10	6207-21-5340	1	Dipstick Gauge (or 6150-21-5650)	-
11	6151-21-5410	1	Dipstick Guide	-
12	01435-01055	1	Bolt	-
13	01584-01008	1	Nut	-
14	6251-51-7170	1	Bracket	-
15	04434-51310	1	Clip	-
16	01435-01020	1	Bolt	-
17	6150-21-5920	1	Collar	-
18	6150-21-5930	1	Nut	-

FLYWHEEL AND HOUSING

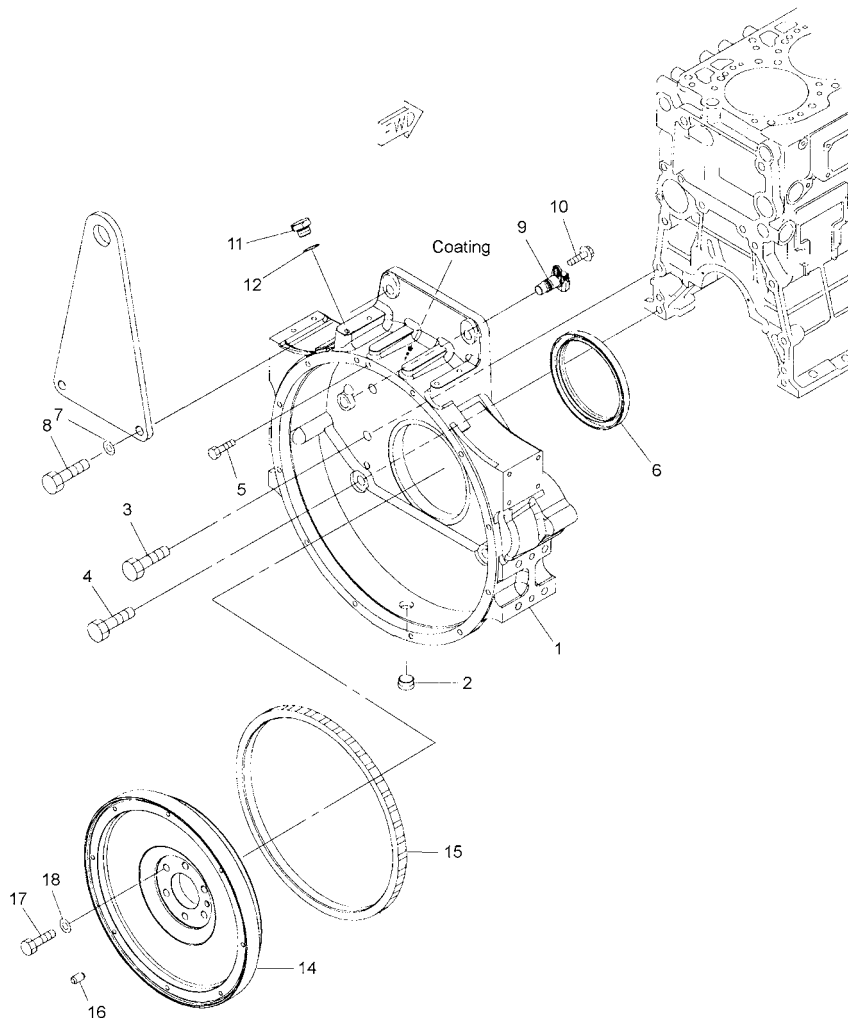


Fig.A2210-A3L2a

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-21-4170	1	Flywheel Housing	-
2	07043-70617	1	Plug	-
3	01010-61650	6	Bolt	-
4	01010-61660	2	Bolt	-
5	01010-81050	2	Bolt	-
6	6151-21-4161	1	Rear Seal	-
7	15-01000	2	Lock Washer M16	-
8	12-01512	2	Capscrew, Hex Head M16 x 2.0 x 70 mm	-
9	6261-81-2901	1	Revolution Sensor Assembly	-
10	01435-00820	1	Bolt	-
11	6114-11-8910	1	Plug	-
12	07005-02216	1	Gasket	-
13	09920-00150	**	Liquid Gasket (not shown)	-
14	6251-31-1630	1	Flywheel Assy SAE #14 (includes key #16)	-
15	6150-31-1351	1	Ring Gear (148 teeth)	-
16	6156-31-4610	1	Dowel Pin	-
17	01050-31645	6	Bolt	-
18	01643-31645	6	Washer	-



CRANKSHAFT

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
• •	6151-35-1010	1	Crankshaft Assembly	-
1	6151-31-1110	1	Crankshaft	-
2	6150-35-1120	1	Gear	-
3	6150-31-1130	1	Key	-
4	6251-31-1590	1	Pulley, Non-hardening	-
5	01051-61640	1	Bolt	-
6	6150-31-1810	1	Washer	-
7	01051-51635	5	Bolt	-
8	6150-31-1810	5	Washer	-
9	6151-31-8300	1	Damper	-
10	04020-01228	1	Dowel Pin	-
11	01010-81225	6	Bolt	-
• •	6150-21-8000	1	Main Bearing Set - Standard	-
12	6150-21-8010	7	Main Bearing - Standard	-
	6150-29-8010	7	Main Bearing - Undersize, 0.25 mm	-
	6150-28-8010	7	Main Bearing - Undersize, 0.50 mm	-
	6150-27-8010	7	Main Bearing - Undersize, 0.75 mm	-
	6150-26-8010	7	Main Bearing - Undersize, 1.00 mm	-
13	6150-21-8050	1	Thrust Bearing - Standard	-
	6150-29-8050	1	Thrust Bearing - Oversize, 0.25 mm	-
	6150-28-8050	1	Thrust Bearing - Oversize, 0.50 mm	-
	6150-27-8050	1	Thrust Bearing - Oversize, 0.75 mm	-
	6150-26-8050	1	Thrust Bearing - Oversize, 1.00 mm	-

PISTON AND CONNECTING ROD

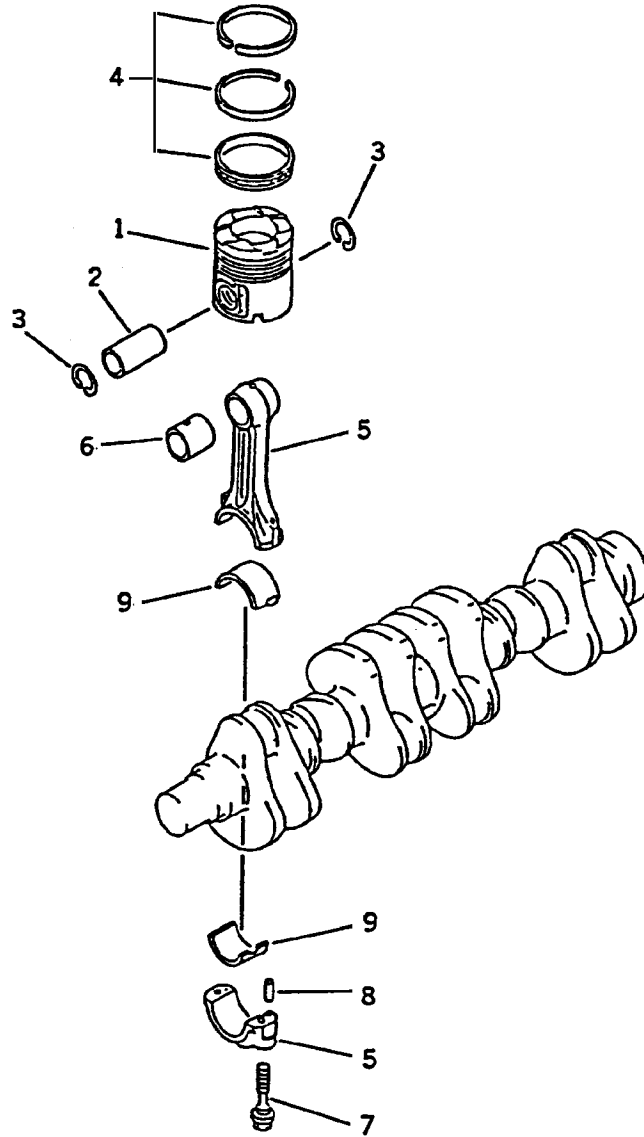


FIG. 235

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-31-2510	6	Piston	-
2	6151-31-2410	6	Piston Pin	-
3	04065-04818	12	Snap Ring	-
4	6251-31-2030	6	Piston Ring Set	-
5	6251-31-3100	6	Connecting Rod Assembly (includes keys #6 - #8)	-
6	6251-31-3130	1	Bushing	-
7	6150-31-3310	2	Bolt	-
8	02400-10413	2	Dowel Pin	-
9	6151-31-3050	6	Connecting Rod Bearing - Standard	-
	6151-39-3050	6	Bearing Assembly - Undersize, 0.25 mm	-
	6151-38-3050	6	Bearing Assembly - Undersize, 0.50 mm	-
	6151-37-3050	6	Bearing Assembly - Undersize, 0.75 mm	-
	6151-36-3050	6	Bearing Assembly - Undersize, 1.00 mm	-

CAMSHAFT

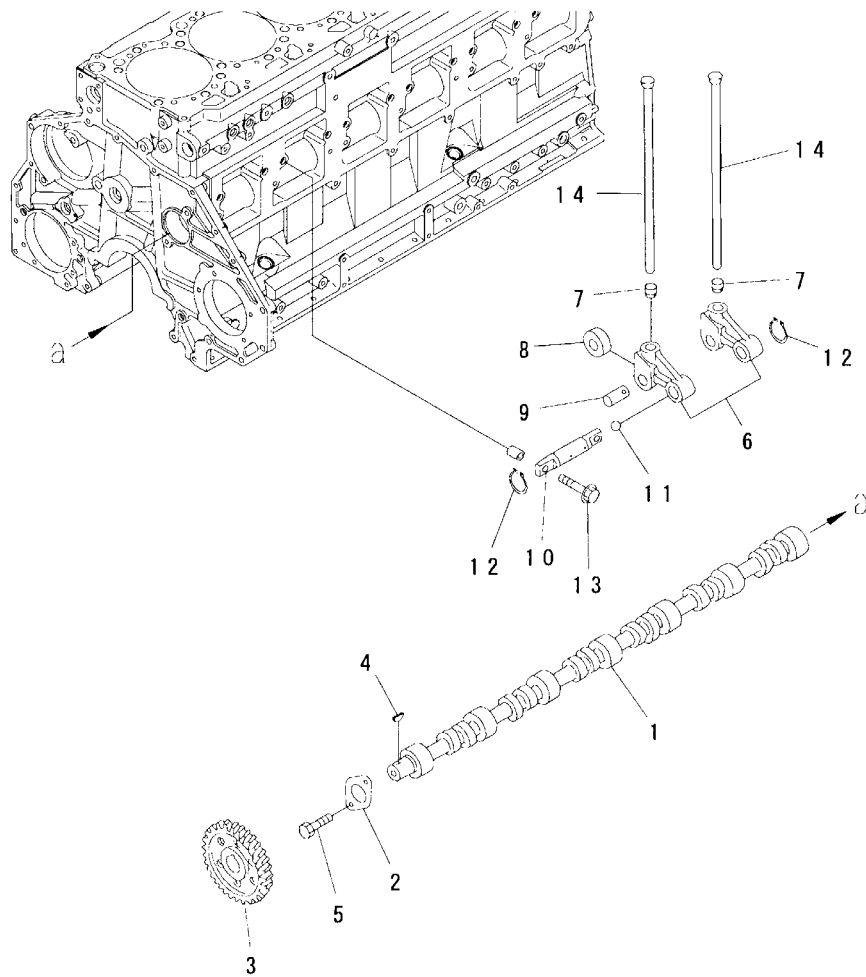


Fig.00045607

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6150-41-1012	1	Camshaft Assembly	-
2	6150-41-1130	1	Thrust Plate	-
3	6150-41-1120	1	Camshaft Gear	-
4	04010-00725	1	Key	-
5	01010-81022	2	Bolt	-
6	6150-41-2302	12	Lever Assembly	-
7		1	Socket*	-
8		1	Roller*	-
9		1	Pin*	-
10	6150-41-2401	6	Shaft Assembly	-
11	6150-81-8420	1	Ball	-
12	04064-02012	12	Snap Ring	-
13	6150-41-2450	12	Bolt	-
14	6150-41-3111	12	Push Rod	-
*not available separately				

TIMING GEAR

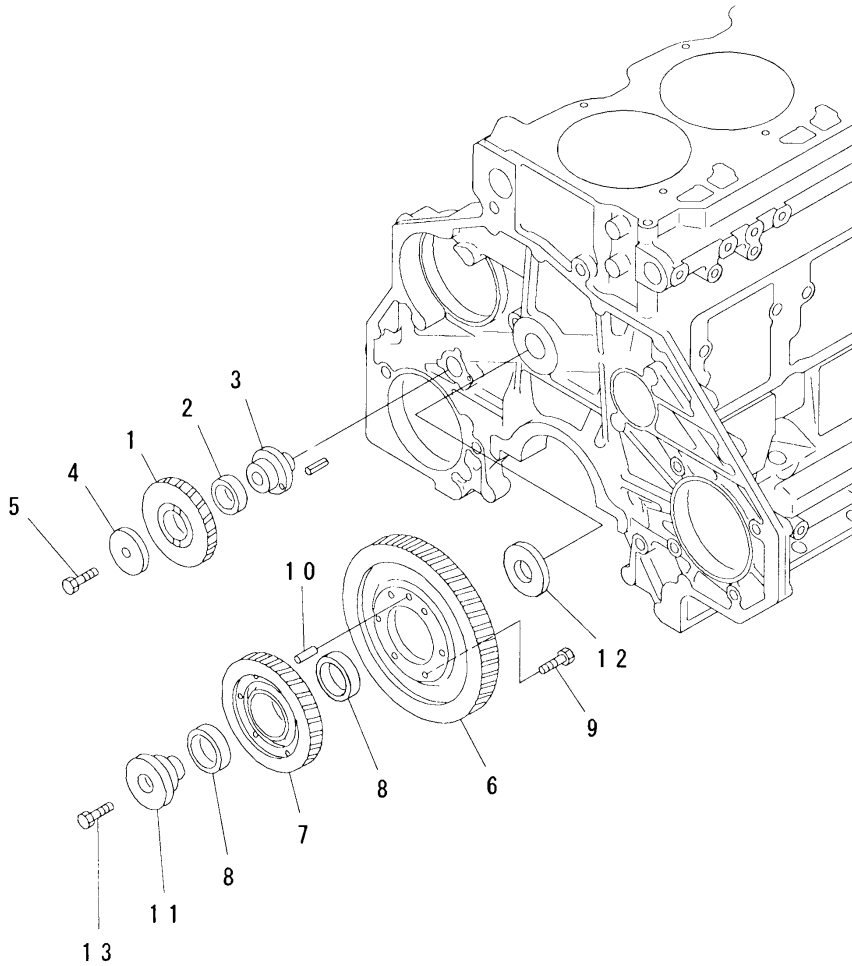


Fig.PJ6B385

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6150-31-6100	1	Gear Assembly	-
2	6150-31-6120	1	Bushing	-
3	6150-21-2510	1	Idler Gear Shaft	-
4	6152-32-6110	1	Thrust Plate	-
5	01010-61460	1	Bolt	-
6	6154-31-6310	1	Idler Gear	-
7	6154-31-6200	1	Gear Assembly	-
8	6150-31-6220	2	Bushing	-
9	01010-81025	6	Bolt	-
10	6127-21-1260	1	Dowel Pin	-
11	6150-21-2411	1	Idler Gear Shaft	-
12	6150-21-2421	1	Thrust Plate	-
13	6150-21-2431	1	Bolt	-

TIMING GEAR COVER

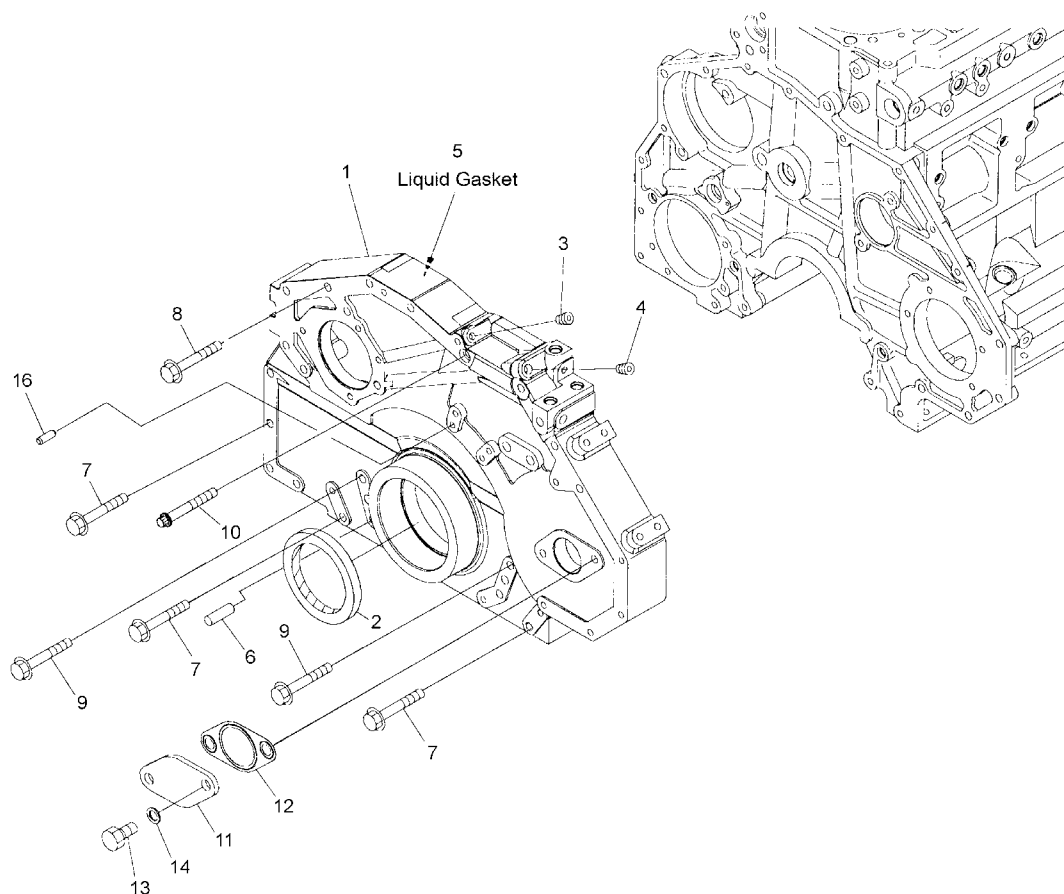
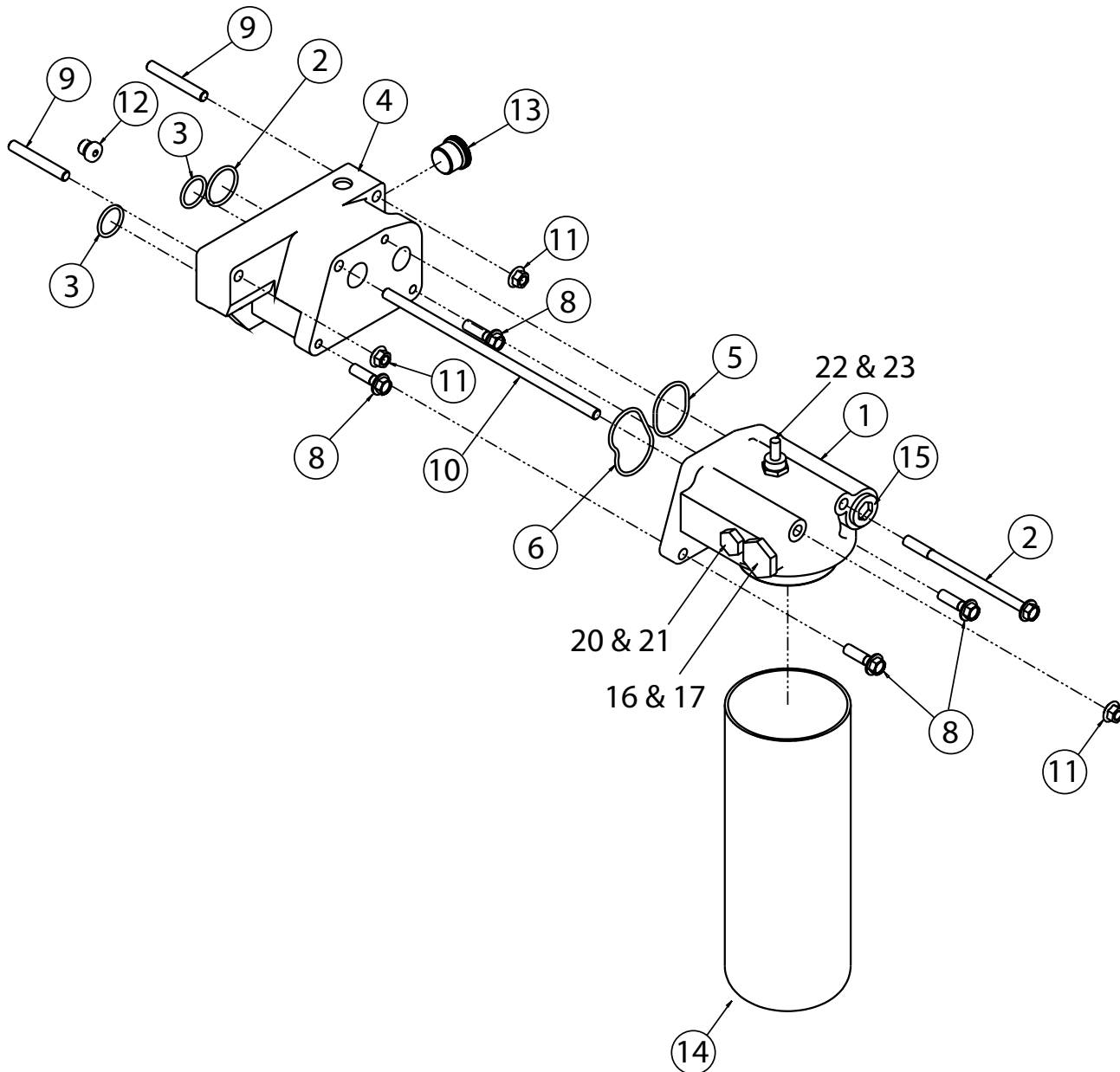


Fig.00045496a

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-21-3210	1	Timing Gear Cover	-
2	6150-21-3230	1	Front Seal	-
3	07043-70108	3	Plug	-
4	07043-70211	3	Plug	-
5	TB1207C	**	Liquid Gasket	-
6	04020-01228	2	Dowel Pin	-
7	01435-01070	8	Bolt	-
8	01435-01080	5	Bolt	-
9	01435-01075	2	Bolt	-
10	01437-01075	1	Bolt	-
11	6251-21-3211	1	Plate	-
12	6251-21-3231	1	Gasket	-
13	01050-51225	2	Bolt	-
14	6251-21-3250	2	Gasket	-
15	6150-81-9130	4	Bolt	-
16		1	Pointer	-
			**As required	

OIL FILTER AND MOUNTING



A-12348/ D-4397

OIL FILTER AND MOUNTING

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	6217-51-5653	1	Oil Filter Head Assembly	-
2	07000-73035	1	O-ring	-
3	07000-73028	2	O-ring	-
4	31-04801	1	Adapter, Oil Filter Assembly Mounting	-
5	07000-72045	1	O-ring	-
6	07000-72060	1	O-ring	-
7	01436-01060	1	Capscrew, Hex Head Flanged M10 x 1.5 x 160 mm Grade 10.9	-
8	01435-01035	4	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
9	13-00817	2	Stud, M10 x 1.5 x 60 mm (72 mm LOA) Grade 8.8	-
10	13-00845	1	Stud, M10 x 1.5 x 268 mm (280 mm LOA) Special	-
11	01584-01008	3	Hex Nut, Flanged M10 x 1.5	-
12	21-29502	1	Plug, Socket Head Steel M14 x 1.5	-
13	21-04815	13	Plug, Socket Head Steel M27 x 2	-
14	600-211-1340	1	Oil Filter Assembly	-
15	0704301019	1	Plug	-
16	6217-515650	1	Cap	-
17	6162-535430	1	Packing	-
18	600-2111890	1	Spring (not shown)	-
19	6162-555230	1	Valve (not shown)	-
20	600-217520	1	Plug	-
21	0700501412	1	Gasket	-
22	600-2111930	1	Alarm	-
23	0700501612	1	Gasket	-

OIL PUMP

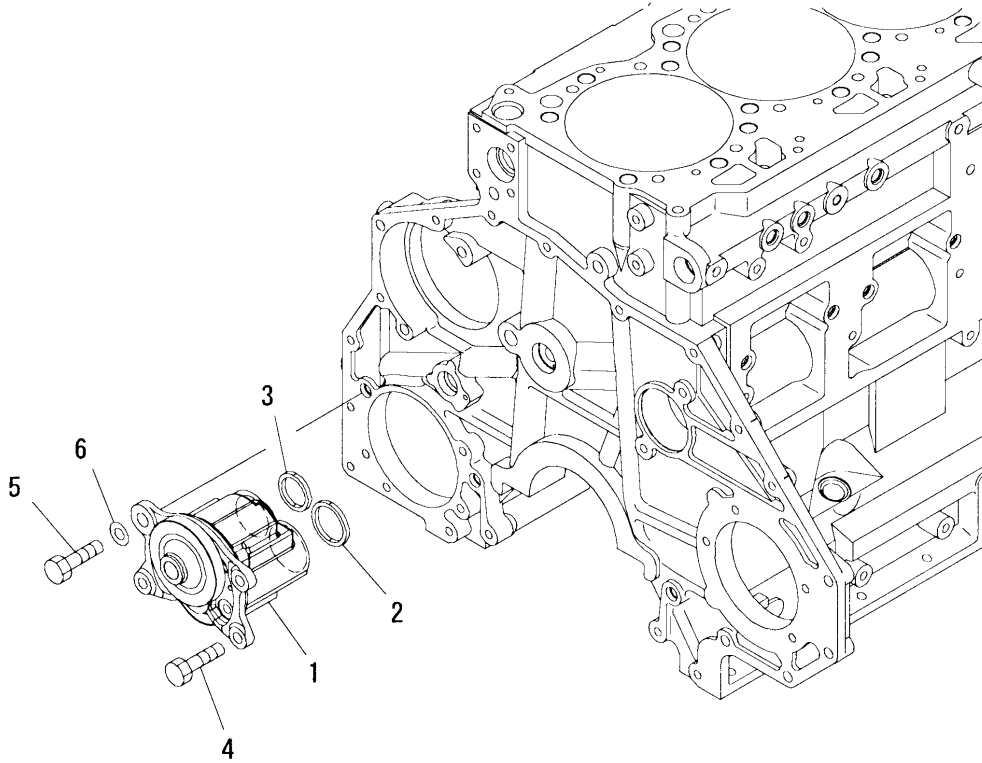


Fig.00045609

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-51-1000	1	Oil Pump Assembly (Parts not available separately)	-
2	6150-51-1710	1	Ring	-
3	6150-51-1720	1	Ring	-
4	01010-81025	3	Bolt	-
5	01010-81035	1	Bolt	-
6	01643-31032	1	Washer	-

OIL PAN

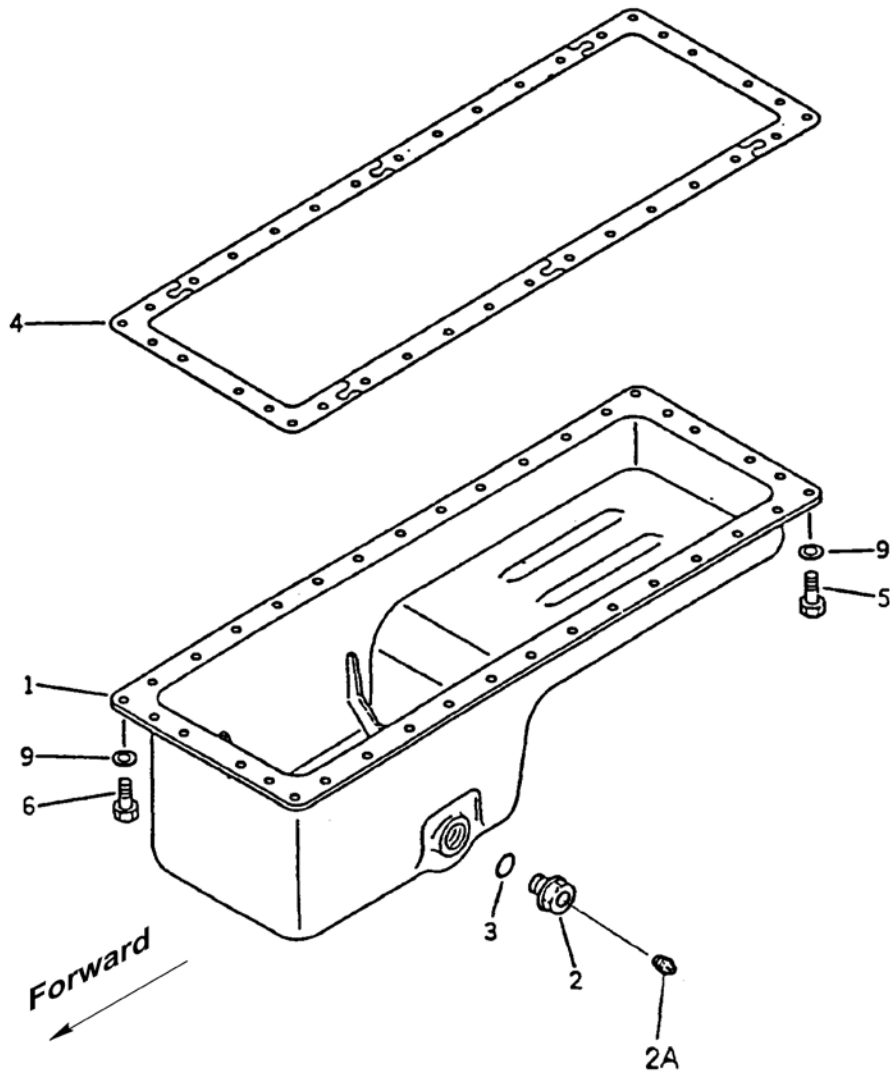


Fig.215

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6150-21-5110	1	Oil Pan (forward sump)	-
2	6150-21-5630	1	Bushing, Steel M36 x 1.5 x 1/2 BSPT	-
2A	07042-00415	1	Plug, Socket Head 1/2 BSPT	-
3	07002-03634	1	O-ring	-
4	6150-21-5812	1	Gasket	-
5	12-00831	30	Capscrew, Hex Head M10 x 1.5 x 25 mm	-
6	12-00832	6	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
9	15-00805	36	Flat Washer M10	-

OIL PICKUP

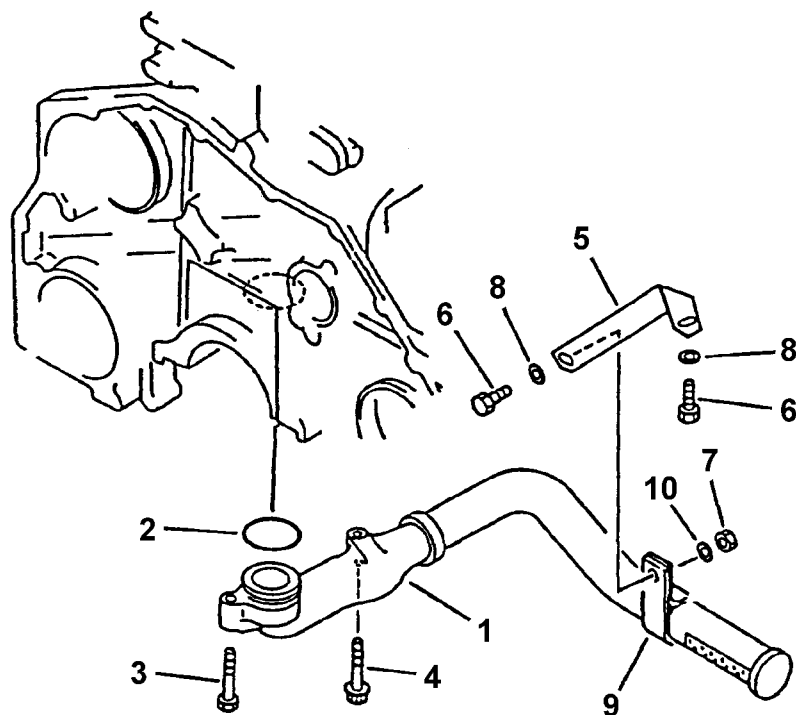
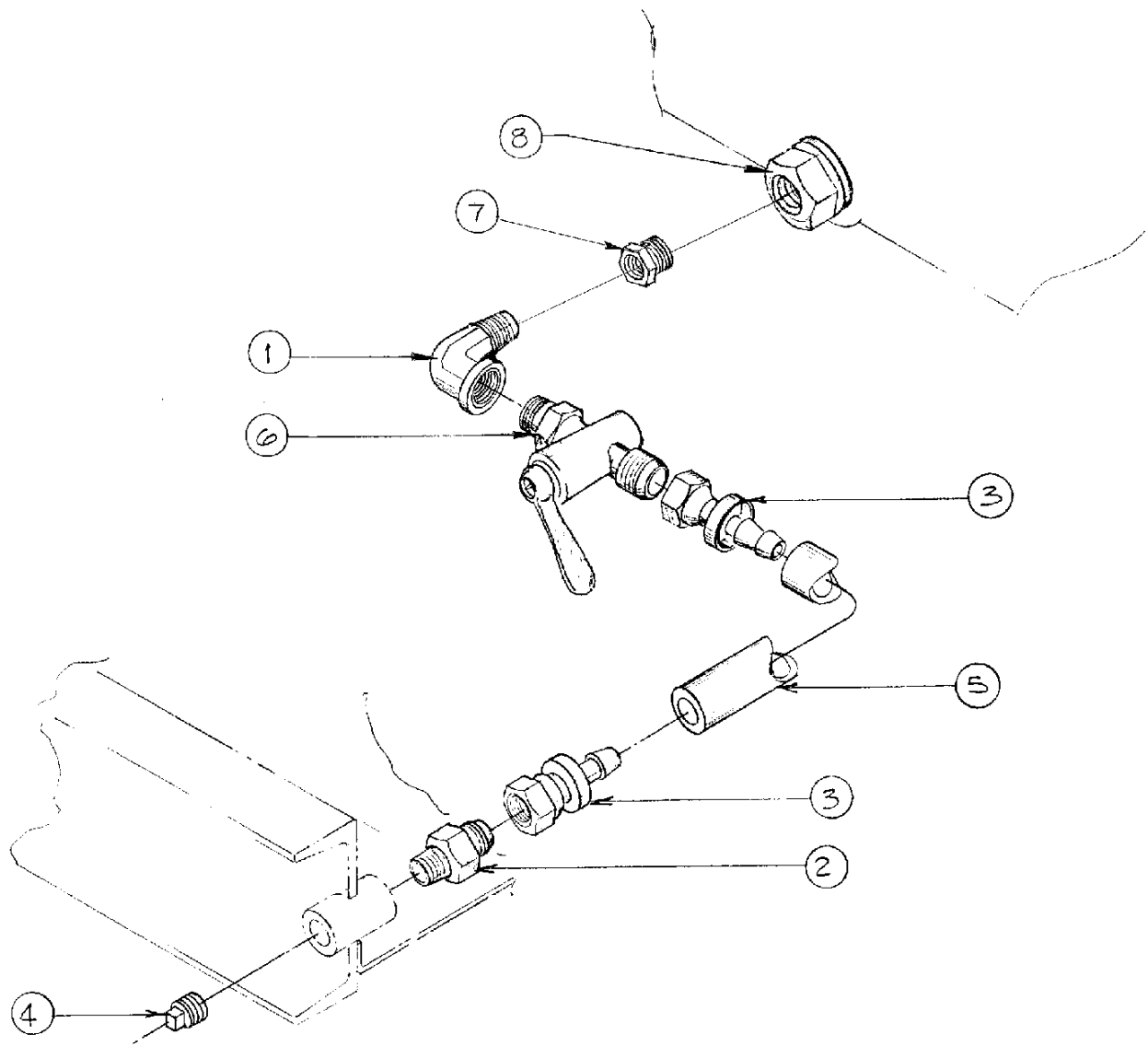


Fig.301a

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6150-51-6210	1	Oil Pickup, Forward Sump	-
2	07000-73045	1	O-ring	-
3	01010-31035	1	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
4	6150-81-9370	1	Capscrew, 12 Point, M10 x 1.5 x 45 mm (Black Oxide)	-
5	6150-51-6220	1	Strainer Bracket, Forward Sump	-
6	01010-E1020	2	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
7	01580-01008	1	Nut	-
8	01640-01016	2	Washer	-
9	6150-51-6270	1	Clamp	-
10	6115-61-4140	1	Washer	-

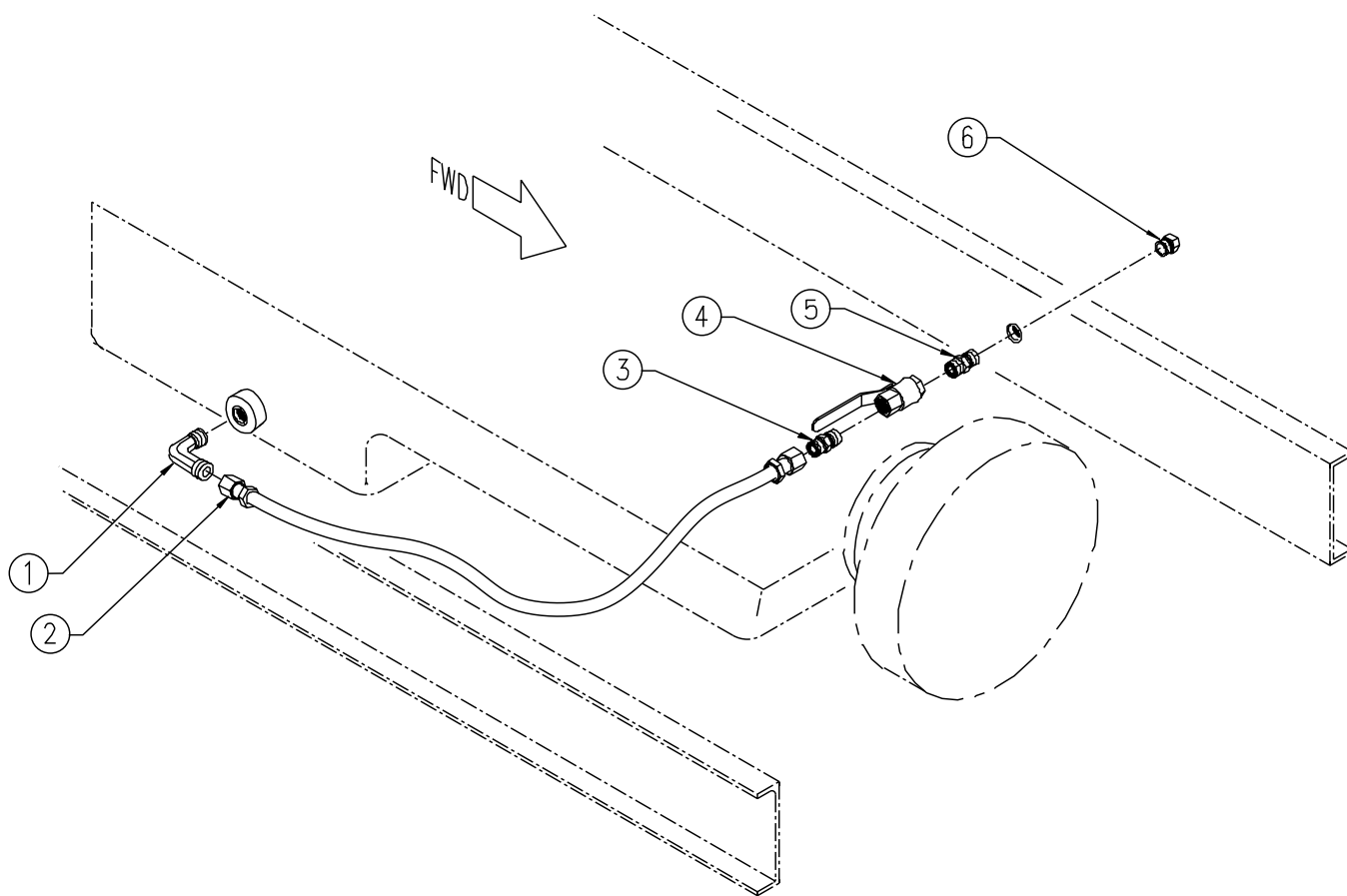
OIL DRAIN M6125

Right Side Outlet

A-2442B/ B-3890

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-62506	1	Street Elbow 90°, Steel 3/8 NPT	-
2	21-71040	1	Male Connector 1/2 NPT x 1/2-45T	-
3	21-71042	2	Swivel Fitting 1/2 HB x 1/2-45T	-
4	21-10005	1	Steel Hex Plug 1/2 NPT	-
5	18-72566	1	Hose, 1/2" ID x 15"	-
6	36-71002	1	Shut-off Valve 3/8 NPT x 1/2-45T	-
7	21-00134	1	Bushing, Brass 1/2 NPT x 3/8 NPT	-
8	6150-21-5630	1	Bushing, Steel M36 x 1.5 x 1/2 BSPT	-

OIL DRAIN M6125

Left Side Outlet

A-8891/ C-4468

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-62507	1	Male Elbow 90°, Steel 1/2 NPT x 5/8 -37T	-
2	18-74806	1	Hose Assembly 1/2" ID x 28"	-
3	21-62510	1	Male Connector, Steel 1/2 NPT x 5/8 -37T	-
4	36-70006	1	Ball Valve, Brass 1/2 NPT Female	-
5	21-00038	1	Hex Nipple, Steel 1/2 NPT	-
6	21-00530	1	Plug, Hex Head, Brass 1/2 NPT	-

NOTES

CYLINDER HEAD

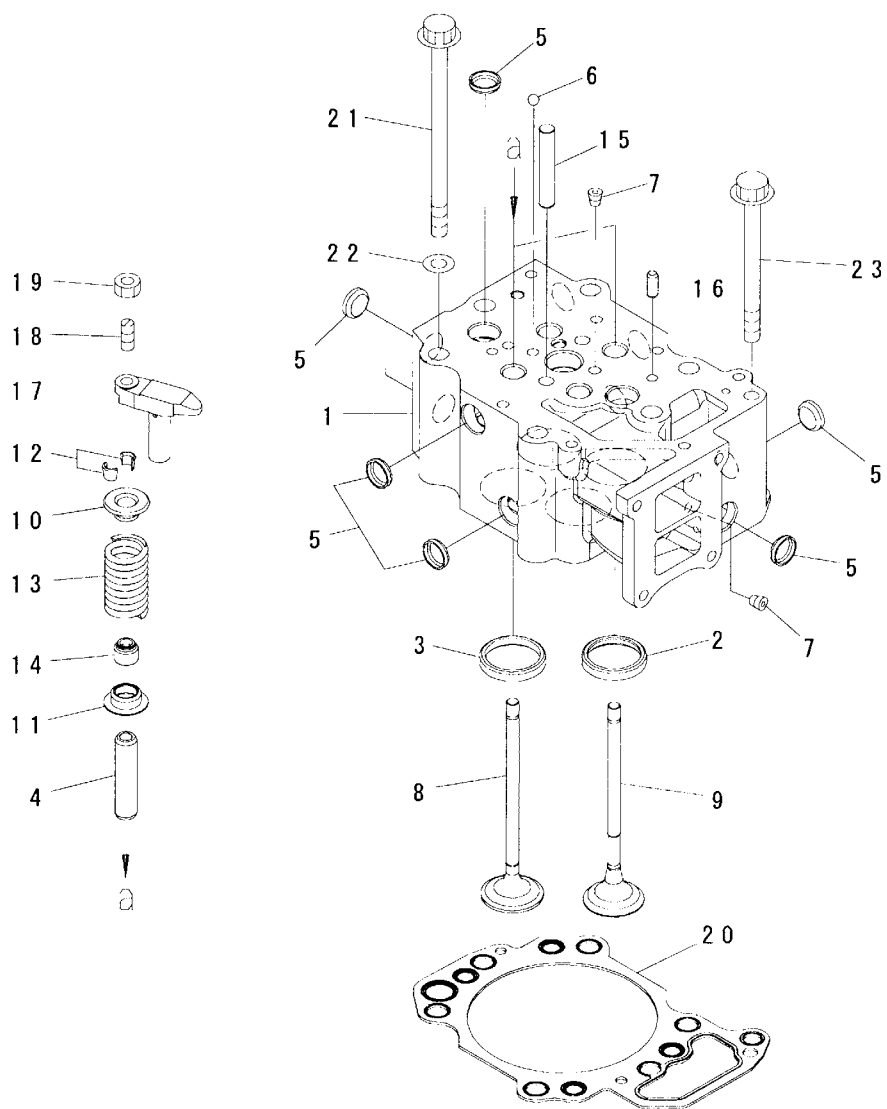


Fig.00045476

CYLINDER HEAD

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-11-1100	6	Cylinder Head Assembly	-
2	6150-11-1320	2	Exhaust Valve Seat, Standard	-
	6150-19-1320	2	Exhaust Valve Seat, Oversize 0.25 mm	-
	6150-18-1320	2	Exhaust Valve Seat, Oversize 0.50 mm	-
	6150-17-1320	2	Exhaust Valve Seat, Oversize 0.75 mm	-
	6150-16-1320	2	Exhaust Valve Seat, Oversize 1.00 mm	-
3	6251-11-1380	2	Intake Valve Seat, Standard	-
	6251-19-1380	2	Intake Valve Seat, Oversize 0.25 mm	-
	6251-18-1380	2	Intake Valve Seat, Oversize 0.50 mm	-
	6251-17-1380	2	Intake Valve Seat, Oversize 0.75 mm	-
	6251-16-1380	2	Intake Valve Seat, Oversize 1.00 mm	-
4	6150-12-1370	4	Valve Guide	-
5	6162-13-1150	11	Expansion Plug	-
6	04260-00793	1	Ball	-
7	07043-70108	3	Plug	-
8	6150-42-4110	12	Intake Valve	-
9	6150-42-4210	12	Exhaust Valve	-
10	6150-41-4510	24	Upper Rotater	-
11	6150-41-4430	24	Lower Rotater	-
12	6136-42-4520	48	Valve Cotter	-
13	6251-41-4450	24	Valve Spring	-
14	6150-41-4570	24	Valve Stem Seal	-
15	6210-11-1140	12	Crosshead Guide	-
16	04020-00820	12	Pin	-
17	6150-42-5600	12	Crosshead Assembly	-
	6150-42-5610	1	Crosshead	-
18	6150-41-5621	1	Screw	-
19	6150-41-5630	1	Nut	-
20	6251-11-1810	6	Cylinder Head Gasket	-
	6150-11-1970	1	Oil Grommet	-
	6150-11-1930	1	Oil Grommet	-
	6150-11-1950	4	Water Grommet	-
	6150-12-1960	1	Water Grommet	-
	6150-11-1960	5	Oil Grommet	-
21	6150-11-1620	36	Bolt	-
22	6164-31-3330	36	Washer	-
23	01438-01020	6	Bolt	-

ROCKER ARM AND HOUSING

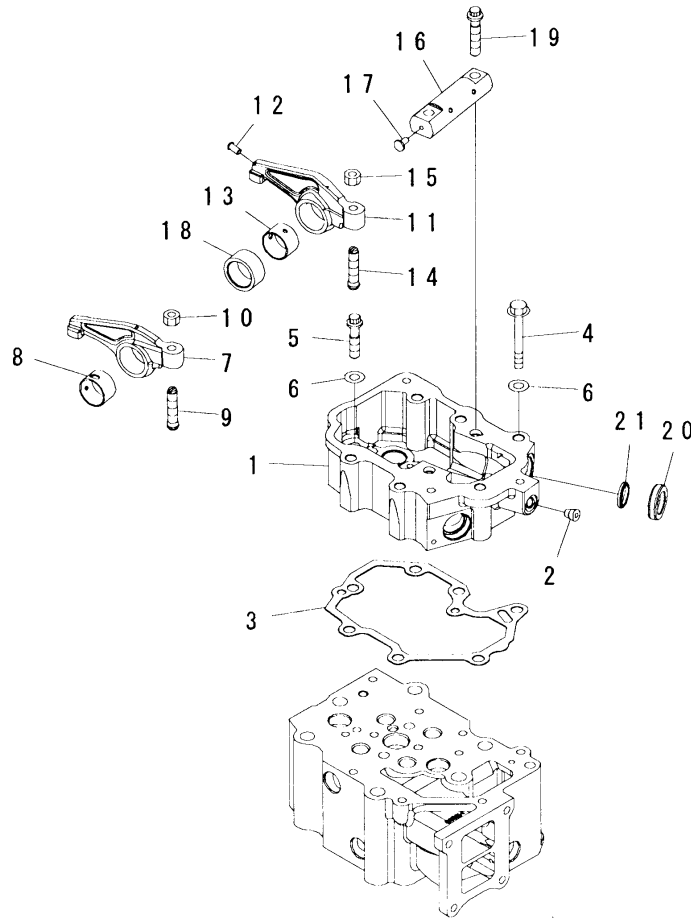


Fig.00045608

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	6251-11-7100	6	Rocker Arm Housing Assembly (includes keys 1-2)	-
1	6251-11-7110	1	Rocker Arm Housing	-
2	07043-30108	1	Plug	-
3	6251-11-7220	6	Gasket	-
4	01437-01075	32	Capscrew 12 ft M10 x 1.5 x 75 mm	-
	01435-01085	2	Capscrew, Hex Head Flanged M10 x 1.5 x 85 mm (for lifting eye brace - see heat exchanger assembly detail)	-
5	6251-71-1170	6	Bolt	-
6	01643-31032	40	Washer	-
7	6150-41-5400	6	Rocker Arm, Intake (includes key #8)	-
8	6150-41-5420	1	Bushing	-
9	6150-41-5541	6	Screw	-
10	01582-01008	6	Nut	-
11	6154-41-5500	6	Rocker Arm, Exhaust (includes keys 12-13)	-
12	6162-43-5340	1	Rivet	-
13	6150-41-5420	1	Bushing	-
14	6150-41-5541	6	Screw	-
15	01582-01008	6	Nut	-
16	6150-42-5300	6	Rocker Arm Shaft Assembly (includes key #17)	-
17	6710-41-5340	1	Rivet	-
18	6154-41-5321	6	Collar	-
19	6150-81-9370	12	Bolt	-
20	6251-11-8830	6	Seal	-
21	6251-11-8840	6	Ring	-

ROCKER ARM COVER

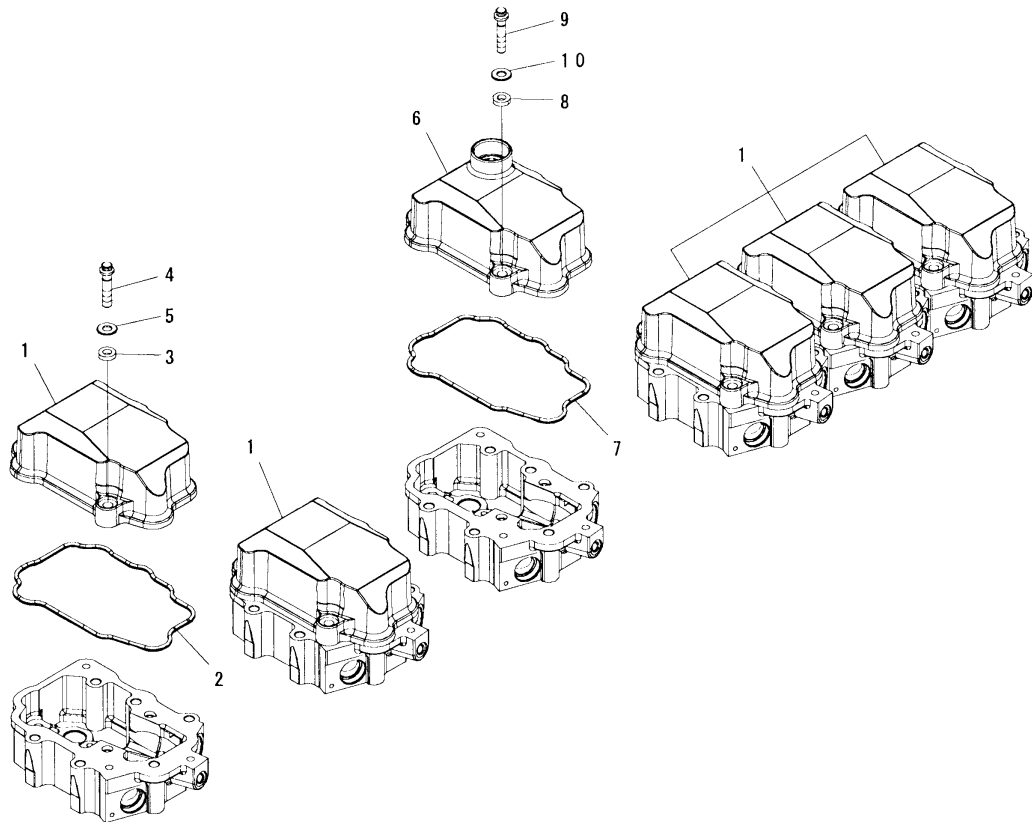


Fig.A1110-A3C8

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-11-8110	5	Rocker Arm Cover No. 1, 2, 4 , 5, and 6	-
2	6251-11-8810	5	Gasket	-
3	6150-11-8820	10	Rubber Gasket	-
4	6150-81-9370	10	Bolt	-
5	01640-21016	10	Washer	-
6	6251-11-8150	1	Cover, No. 3	-
7	6251-11-8810	1	Gasket	-
8	6150-11-8820	2	Rubber Gasket	-
9	6150-81-9370	2	Bolt	-
10	01640-21016	2	Washer	-

ROCKER ARM HOUSING COVER OIL FILL

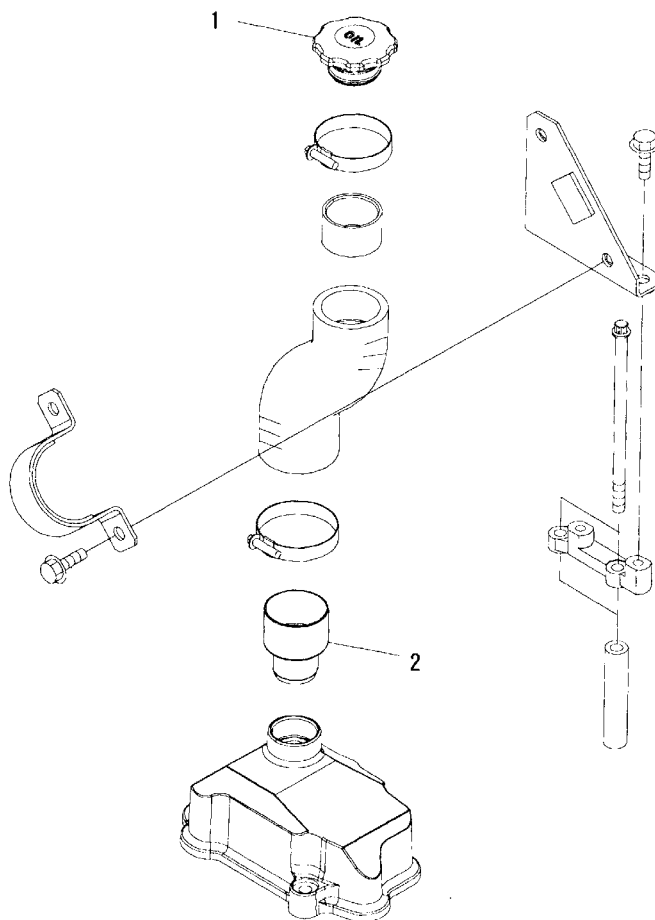


Fig.00049116

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6130-12-8610	1	Oil Fill Cap	-
2	6251-21-6521	1	Filler Tube	-

INTAKE MANIFOLD

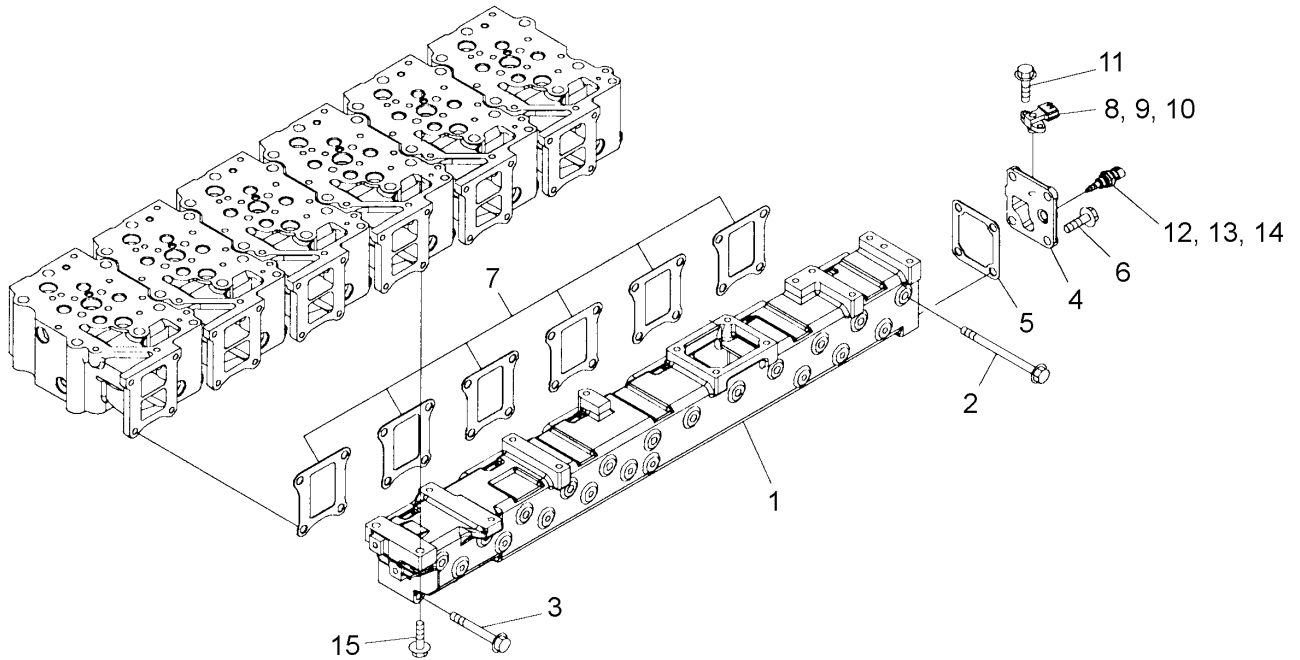
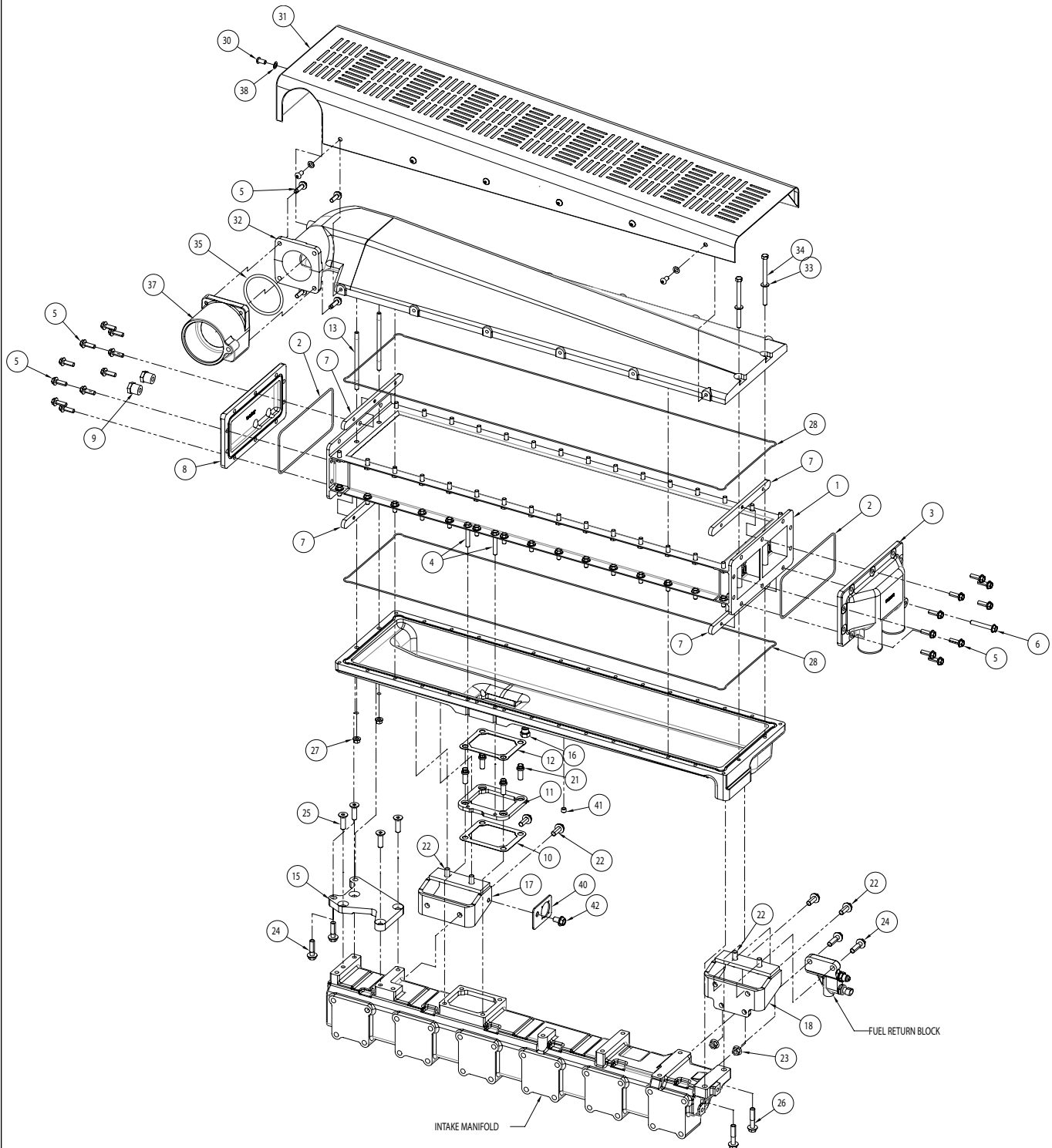


Fig.00049119

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-11-4110	1	Air Intake Manifold	-
2	01436-01030	12	Bolt	-
3	01435-01080	12	Bolt	-
4	6251-11-4250	1	Cover	-
5	6251-11-4260	1	Gasket	-
6	01435-01025	2	Bolt	-
7	6150-13-4810	6	Gasket	-
8	6261-81-2700	1	Sensor Assembly (includes keys #9-10)	-
9	6261-81-2710	1	Boost Pressure Sensor	-
10	6261-81-2720	1	O-ring	-
11	01435-00616	2	Bolt	-
12	6560-61-7300	1	Sensor Assembly (includes keys #13-14)	-
13	6560-61-7310	1	Boost Temperature Sensor	-
14	6735-21-1930	1	O-ring	-
15	01435-01040	2	Bolt	-

INTAKE AND AFTERCOOLER ASSEMBLY

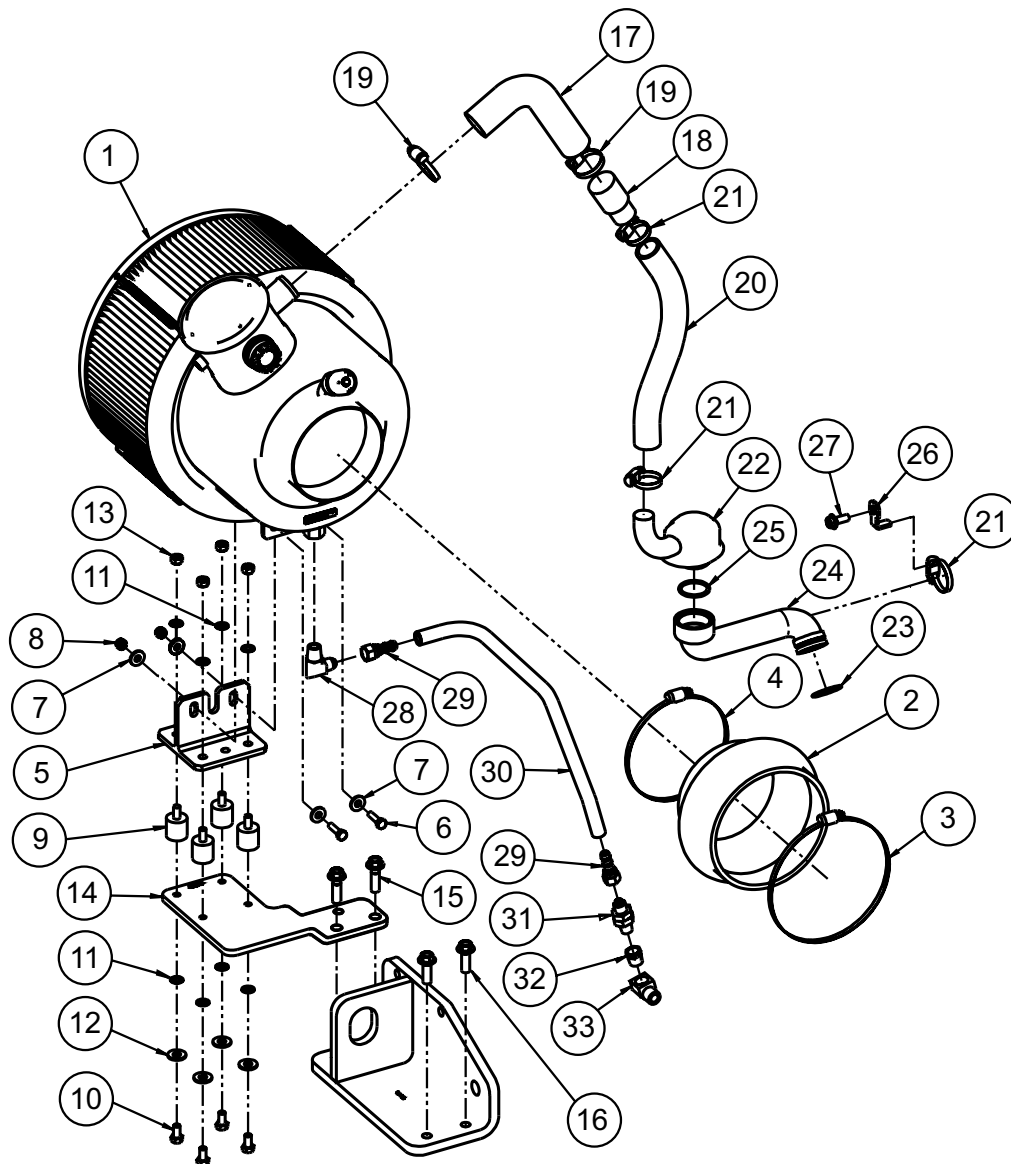


A-12297/ D-4392a

INTAKE AND AFTERCOOLER ASSEMBLY

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	20-24801	1	Element, Aftercooler	-
2	16-24803	2	O-ring	-
3	10-24816	1	End Cover, Aftercooler Front	-
4	01435-00850	2	Capscrew, Hex Head Flanged M8 x 1.25 x 50 mm Grade 10.9	-
5	01435-00825	19	Capscrew, Hex Head Flanged M8 x 1.25 x 25 mm Grade 10.9	-
6	01435-00855	1	Capscrew, Hex Head Flanged M8 x 1.25 x 55 mm Grade 10.9	-
7	28-04802	4	Plate, Threaded 3 Places	-
8	10-24817	1	End Cover, Aftercooler Rear	-
9	21-00530	2	Plug, Hex Head Brass 1/2 NPT	-
10	11-24806	1	Gasket, Air Intake (Standard)	-
	6251-11-4820	1	Gasket, Air Intake(Alternate)	-
11	28-24801	1	Plate, Air Intake Manifold/ Aftercooler	-
12	11-24806	1	Gasket, Air Intake	-
13	13-00721	2	Stud, Special M8 x 1.25 x 124 mm (140 mm LOA)	-
14	28-24802	**	Spacer Plate, Aftercooler Rear	-
15	23-24820	1	Bracket, Intake Manifold Rear Support	-
16	21-29503	1	Drain, Aftercooler Condensate S/S	-
17	23-24824	1	Bracket, Rear	-
18	23-24825	1	Bracket, Front	-
19	28-24803	**	Spacer Plate	-
20	10-24818	1	Housing, Lower	-
21	01437-01025	4	Capscrew, 12 Point M10 x 1.5 x 25 mm	-
22	01435-01025	8	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
23	01584-01008	2	Hex Nut, Flanged M10 x 1.5	-
24	01435-01035	4	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
25	12-10814	4	Capscrew, Flat Head Socket M10 x 1.5 x 35 mm Grade 10.9	-
26	01435-01045	2	Capscrew, Hex Head Flanged M10 x 1.5 x 45 mm Grade 10.9	-
27	01584-00806	10	Hex Nut, Flanged M8 x 1.25	-
28	16-24802	2	O-ring	-
29	01435-00816	60	Capscrew, Hex Head Flanged M8 x 1.25 x 16 mm Grade 10.9	-
30	12-99757	13	Capscrew, Button Head Socket M8 x 1.25 x 16 mm S/S	-
31	00-24803	1	Heat Shield, Aftercooler	-
32	10-24819	1	Aftercooler Top Cover	-
33	15-00701	2	Flat Washer M8	-
34	6132-11-4690	2	Capscrew, Hex Head M8 x 1.25 x 115 mm	-
35	16-25002	1	O-ring	-
36	01435-00825	4	Capscrew, Hex Head Flanged M8 x 1.25 x 25 mm Grade 10.9	-
37	31-24804	1	Adapter, Aftercooler Air Inlet	-
38	15-99707	13	Wave Washer M8 S/S	-
40	23-44841	1	Brackey, Diagnostic Connector Mtg	-
41	12-00027	1	Plug, Socket Head 1/8 NPT	-
42	01435-01016	1	Capscrew, Hex Head Flanged M10 x 1.5 x 16mm	-
			** As Required	

AIR FILTER/ CRANKCASE BREATHER SYSTEM

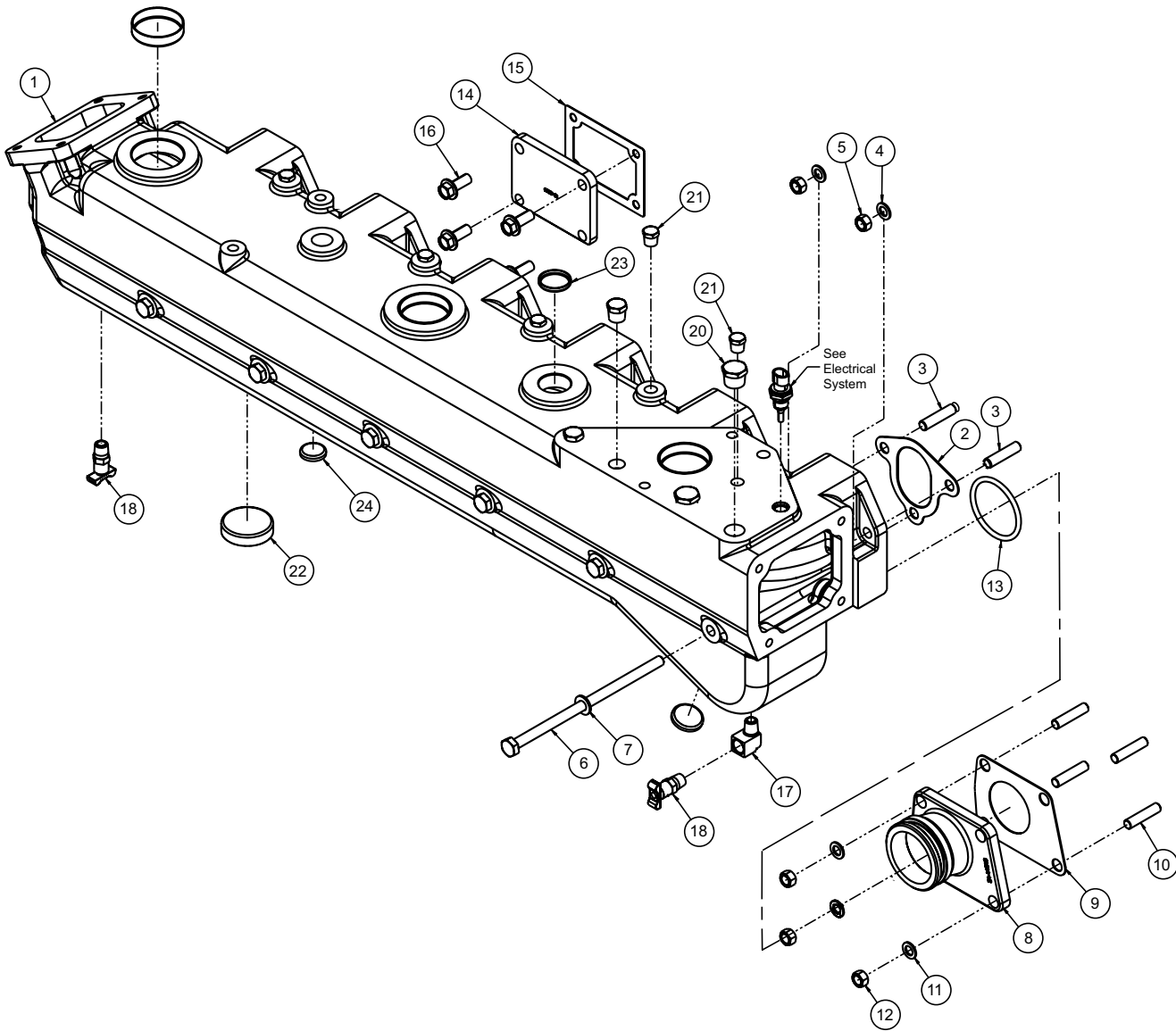


A-12354/ D-4396

AIR FILTER/ CRANKCASE BREATHER SYSTEM

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-26813	1	"Air Sep" Filter Assembly	-
2	18-26801	1	Hump Hose 6" I.D. x 5" I.D. x 4" LOA	-
3	19-00104	1	Hose Clamp #104	-
4	19-00088	1	Hose Clamp #88	-
5	23-24817	1	Bracket, "Air-Sep" Filter Support, Upper	-
6	12-00112	2	Capscrew, Hex Head 1/4-20 x 1"	-
7	15-00111	4	Flat Washer 1/4" USS	-
8	14-00112	2	Hex Nut, Nylock 1/4-20	-
9	33-70000	4	Mount, Sandwich 55 lb.	-
10	12-00204	4	Capscrew, Hex Head 5/16-18 x 5/8 Grade 8	-
11	15-00203	8	Star Washer, Internal 5/16"	-
12	15-00211	4	Flat Washer, 5/16" USS	-
13	14-00213	4	Hex Nut 5/16-18	-
14	23-24822	1	Bracket, "Air-Sep" Filter Support, Lower	-
15	01435-01035	2	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
16	01435-01030	2	Capscrew, Hex Head Flanged m10 x 1.5 x 30 mm Grade 10.9	-
17	18-20001	1	Hose, 1-1/4" I.D., 90° Molded	-
18	21-24802	1	Reducing Coupling, PVC 1-1/4" HB x 1" HB	-
19	19-00020	2	Hose Clamp #20	-
20	41-01059	12.5"	Hose, 1" I.D. Oil Resistant	-
21	19-00016	3	Hose Clamp #16	-
22	6150-21-6710	1	Breather	-
23	16-04801	1	O-ring	-
24	27-04803	1	Tube, Crankcase Breather Connection	-
25	16-15008	1	O-ring	-
26	23-24823	1	Bracket, Crankcase Breather Adapter Support	-
27	01435-00820	1	Capscrew, Hex Head Flanged M8 x 1.25 x 20 mm Grade 10.9	-
28	21-00606	1	Male Elbow, 90° Steel 3/8 NPT x 3/8-37T	-
29	21-71034	2	Female Swivel, Brass 3/8 HB x 3/8-37T Push-on	-
30	41-01020	21	Hose, 3/8" I.D. -40 to +212°F Push-on	-
31	21-20002	1	One Way Valve, Brass 1/4 NPT x 3/8-37T	-
32	21-51099	1	Bushing, Brass 3/8 NPT x 1/4 NPT	-
33	21-51097	1	Street Elbow 90° Brass 3/8 NPT	-

EXHAUST MANIFOLD

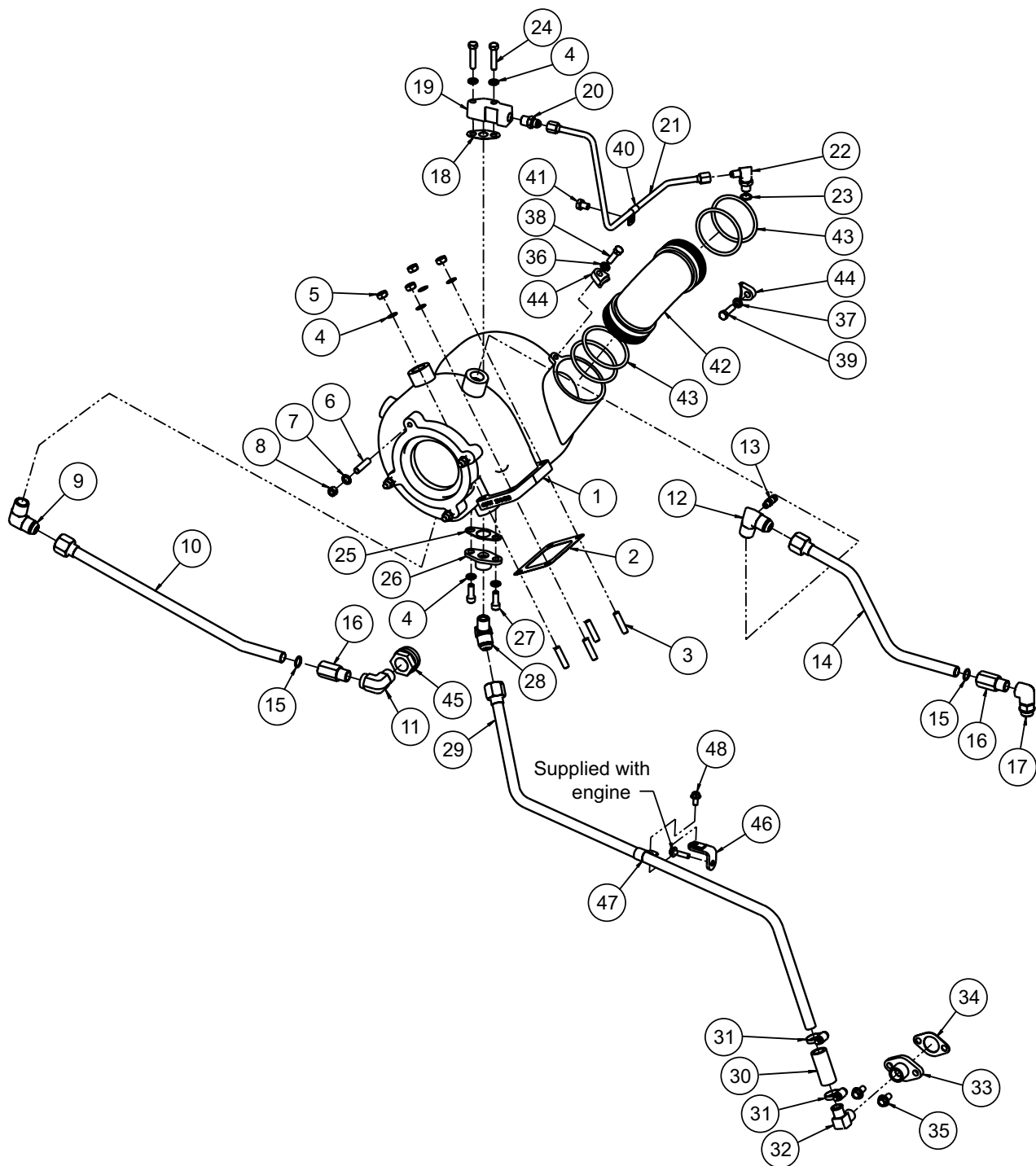


A-12298/ D-4393

EXHAUST MANIFOLD

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-34803	1	Exhaust Manifold	-
2	6151-15-5810	6	Gasket	-
3	13-00814	12	Stud, M10 x 1.5 x 30 mm, 42 mm LOA Grade 8.8	-
4	15-00300	12	Flat Washer 13/32 x 11/16	-
5	14-00810	12	Hex Nut M10 x 1.5	-
6	12-00844	6	Capscrew, Hex Head M10 x 1.5 x 205 mm	-
7	15-00805	6	Flat Washer M10	-
8	31-14810	1	Adapter, Coolant Inlet	-
9	6150-22-6490	1	Gasket	-
10	13-05001	4	Stud, M10 x 1.5 x 25 mm, 37 mm LOA Grade 8.8	-
11	15-00300	4	Flat Washer 13/32 x 11/16	-
12	14-00810	4	Hex Nut M10 x 1.5	-
13	16-14806	1	O-ring	-
14	28-15003	1	Blind Plate	-
15	6210-21-1971	1	Gasket	-
16	01435-01025	4	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
17	21-51098	1	Street Elbow 90° Brass 1/4 NPT	-
18	21-10002	2	Drain Cock Brass 1/4 NPT	-
21	21-31624	5	Plug, Hex Head Brass 1/4 NPT	-
22	17-14802	5	Expansion Plug Brass 2"	-
23	17-10054	3	Expansion Plug Brass 1-1/4"	-
24	17-10002	2	Expansion Plug Brass 1"	-

4MFW TURBOCHARGER & MOUNTING



A-12299/ D-4394

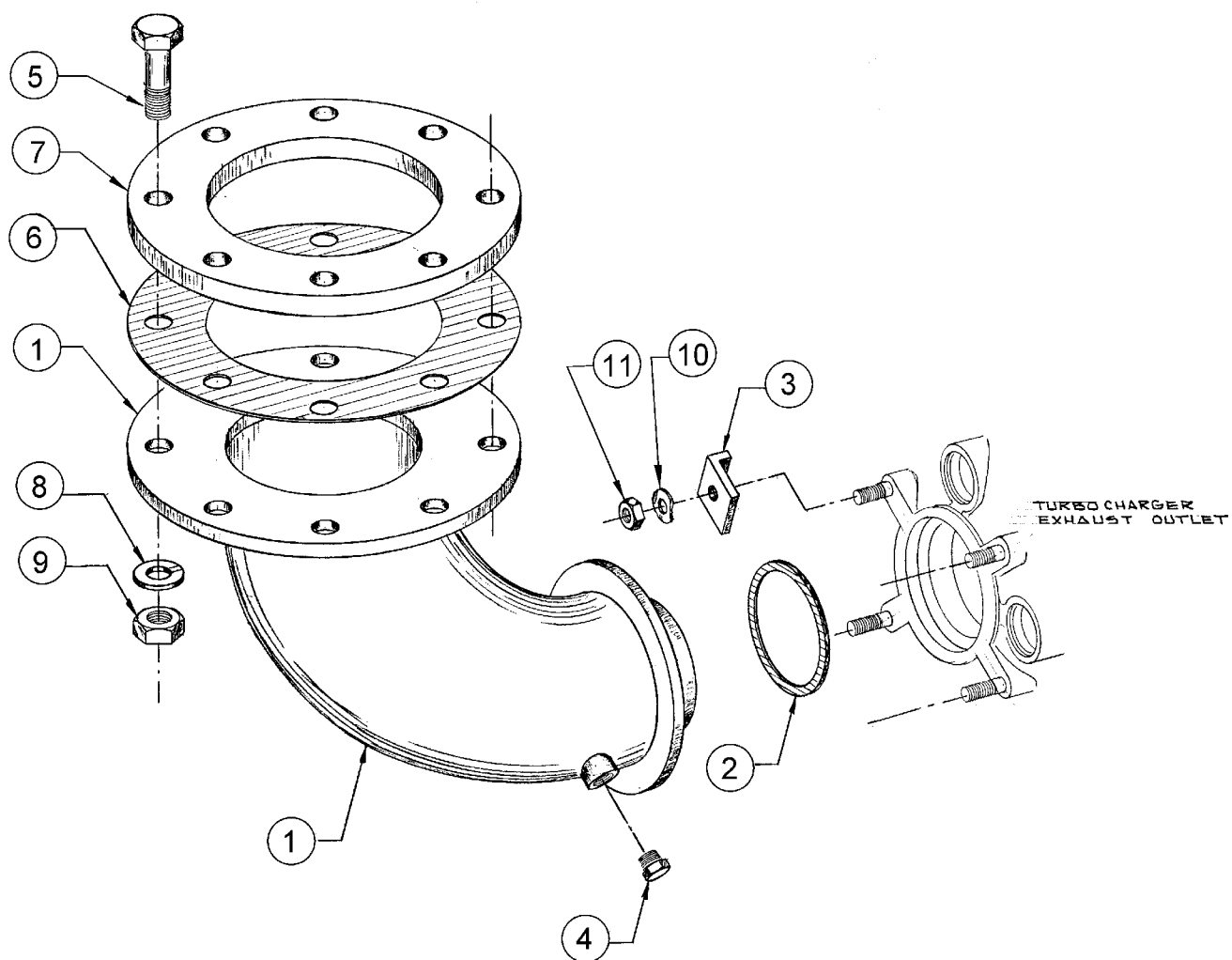
4MFW TURBOCHARGER & MOUNTING

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	30-34833	1	Turbocharger (See parts detail)	-
2	11-34804	1	Gasket	-
3	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA) **	-
4	15-00302	2	Helical Lock Washer 3/8	-
5	14-00817	4	Hex Nut, M10 x 1.5 S/S	-
6	13-00335	4	Stud 3/8-16 x 3/8-24 x 1-1/4" (1 - 3/4" LOA)	-
7	15-00804	8	Wave Washer M10	-
8	14-05001	4	Hex Nut 3/8-24, Stainless Steel	-
9	21-64801	1	Male Elbow 90° Steel 3/4 NPT x 3/4-37T	-
10	27-14851	1	Tube Assembly, Turbo Coolant Supply	-
11	21-04816	1	Street Elbow, 90° Steel 3/4 NPT x 1/2 NPT	-
12	21-15001	1	Male Elbow, 90° Steel 3/4 NPT x 3/4-37T Tapped 1/8 NPT	-
13	21-10001	1	Drain Cock, Brass 1/8 NPT	-
14	27-14856	1	Tube Assembly, Turbo Coolant Return	-
15	16-01000	2	O-ring	-
16	R41285	2	Adapter, O-ring seal x 1/2 NPT	-
17	21-03459	1	Female Elbow 90°, Steel 5/8 O-ring Port x 1/2 NPT	-
18	11-31014	1	Turbo Oil Inlet Gasket	-
19	31-31047	1	Turbo Oil Inlet Adapter	-
20	21-52800	1	Male Connector 3/8 NPT x 3/8-37T	-
21	27-34843	1	Tube Assembly, Turbo Oil Supply	-
22	21-09501	1	Male Elbow, 90° Steel M16 x 1.5 x 3/8-37T	-
23	51M7042	1	O-ring	-
24	12-00315	2	Capscrew, Hex Head 3/8-16 x 1-3/4"	-
25	11-31013	1	Turbo Oil Return Gasket	-
26	31-74800	1	Turbo Oil Return Adapter	-
27	12-20312	2	Capscrew, Socket Head, 3/8-16 x 1"	-
28	21-14807	1	Male Elbow 45° 1/2 NPT x 3/4-37T	-
29	27-34844	1	Tube Assembly, Turbo Oil Return	-
30	41-00004	2.5"	Hose, 3/4 I.D. 1 Ply SAE 100R6 -40/+275°F 300 PSI	-
31	19-00010	2	Hose Clamp #10	-
	19-00012	2	Hose Clamp #12	-
32	21-31902	1	Male Elbow 90° Brass 1/2 NPT x 3/4 HB	-
33	31-74812	1	Adapter, Turbo Oil Return	-
34	11-34809	1	Gasket, Oil Return Adapter Mounting	-
	6154-51-8310	1	Gasket	-
35	01435-01020	2	Capscrew, Hex Head Flanged M10 x 1.5 x 20 mm Grade 10.9	-
36	15-00302	1	Lock Washer, Helical 3/8"	-
37	15-00302	1	Lock Washer, Helical 3/8"	-
38	12-00313	1	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
39	12-00313	1	Capscrew, Hex Head 3/8-16 x 1-1/4"	-
40	19-72252	1	Adelle Clamp 3/8" I.D. x 3/8" Stud	-
41	12-00822	1	Capscrew, Hex Head M10 x 1.5 x 14 mm	-
42	10-24806	1	Elbow, Air Inlet	-
43	16-25002	4	O-ring	-
44	00-24802	2	Clamp Dog Clip	-
45	6150-25-1190	1	Adapter, Steel 3/4 NPT x 1-3/4-18	-
46	23-09606	1	Bracket	-
47	19-41900	1	Adelle Clamp 3/4" I.D. x 3/8" Stud	-
48	01435-00816	1	Capscrew, Hex Head Flanged M8 x 1.25 x 16 mm Grade 10.9	-

SCHWITZER TURBOCHARGER ASSEMBLY 4MFW

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	30-34833	1	Turbocharger (ID tag# 199383)	-
•	30-00025	1	Repair Kit	-
•	30-04809	1	Cartridge Assembly 3 (includes keys 2-9, 12-16, 18, 20, 21, 26-27)	-
1	30-04802	1	Compressor Cover	-
2	30-05002	1	Lock Nut	-
3	30-04804	1	Compressor Wheel	-
4	30-00001	1	Flinger Sleeve	-
5	30-00002	1	Piston Ring	-
6	30-00003	1	Oil Deflector	-
7	30-00004	1	Snap Ring	-
8	30-00005	1	Compressor Insert	-
9	30-00006	1	O-ring	-
11	30-00007	1	V-Clamp	-
12	30-04805	1	Thrust Bearing Assembly	-
13	30-00008	1	Spacer Sleeve	-
14	30-00009	1	Pin	-
15	30-00010	2	Bearing	-
16	30-00011	4	Snap Ring	-
17	30-00012	1	V-Clamp	-
18	30-00013	1	Bearing Housing Assembly	-
19	30-04810	1	Turbine Housing Assembly (includes keys 28 & 29)	-
20	30-04807	1	Shaft and Turbine Wheel Assembly	-
21	30-00014	2	Thrust Ring	-
22	30-00020	1	Rivet (not shown)	-
23	30-00015	1	Name Plate (not shown)	-
24	30-00016	2	Clamp Nut	-
26	30-00017	1	Turbine Backplate	-
27	30-00018	1	Piston Ring	-
28	30-04808	7	Plug	-
29	30-00019	5	Plug	-

DRY EXHAUST ELBOW - 5" & 6"

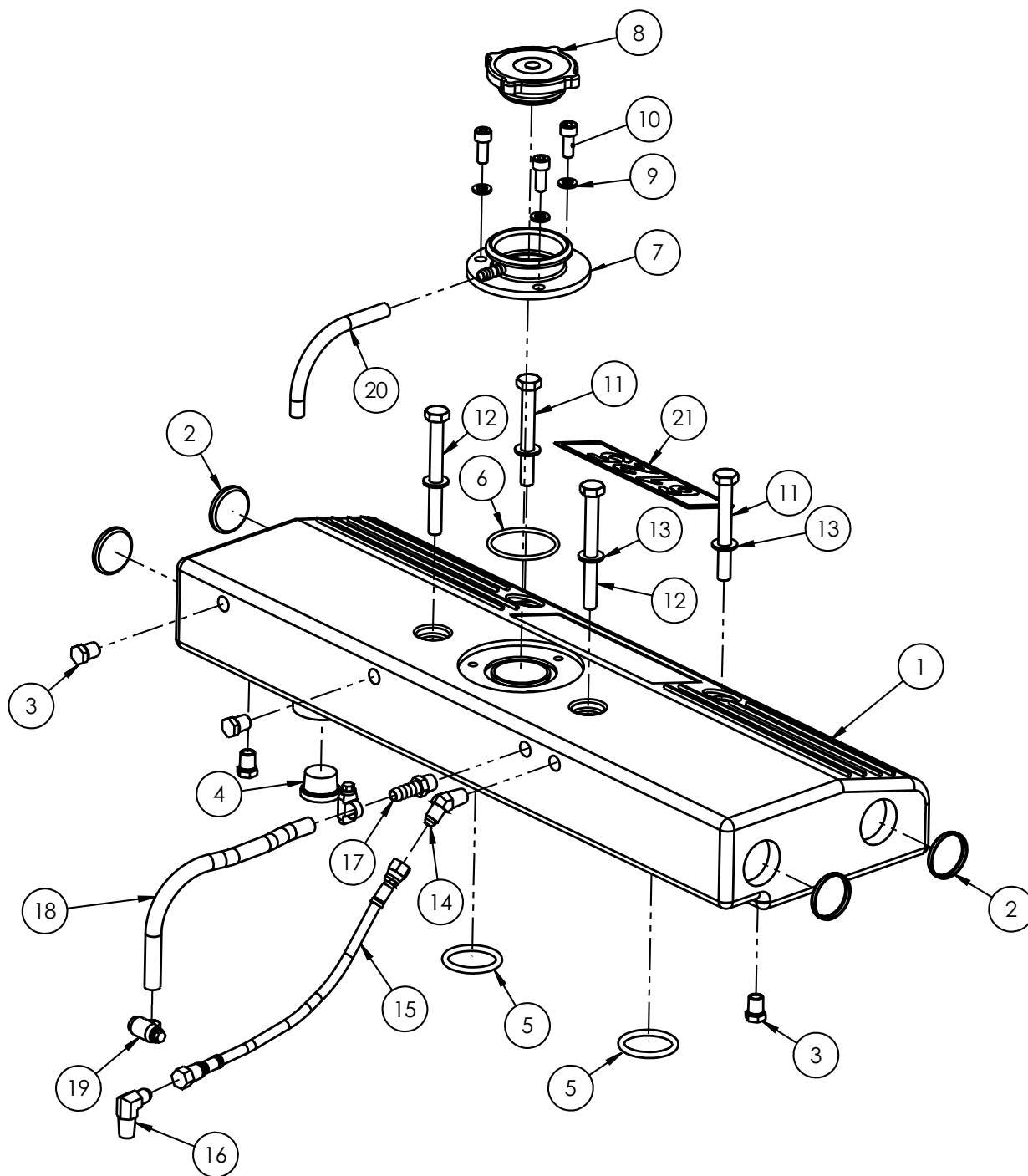


A-5148, A-4708 / C-2497

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-34831	1	Dry Exhaust Elbow 5" (formerly #27-34825)	-
	27-35021	1	Dry Exhaust Elbow 6" (formerly #27-35008)	-
2	11-34808	1	Gasket	-
3	00-30005	4	Retaining Clip	-
4	21-31624	1	Brass Plug 1/4 NPT	-
5	12-01217	8	Capscrew, Hex Head 3/4-10 x 2-1/2"	-
6	11-31096	1	Gasket (5")	-
	11-31097	1	Gasket (6")	-
7	28-32801	1	Companion Flange (5")	-
	28-34802	1	Companion Flange (6")	-
8	15-01202	8	Helical Lock Washer 3/4	-
9	14-01211	8	Hex Nut 3/4-10	-
10	15-00804	4	Wave Washer M10	-
11	14-05001	4	Hex Nut, Stainless Steel 3/8-24	-

NOTES

EXPANSION TANK



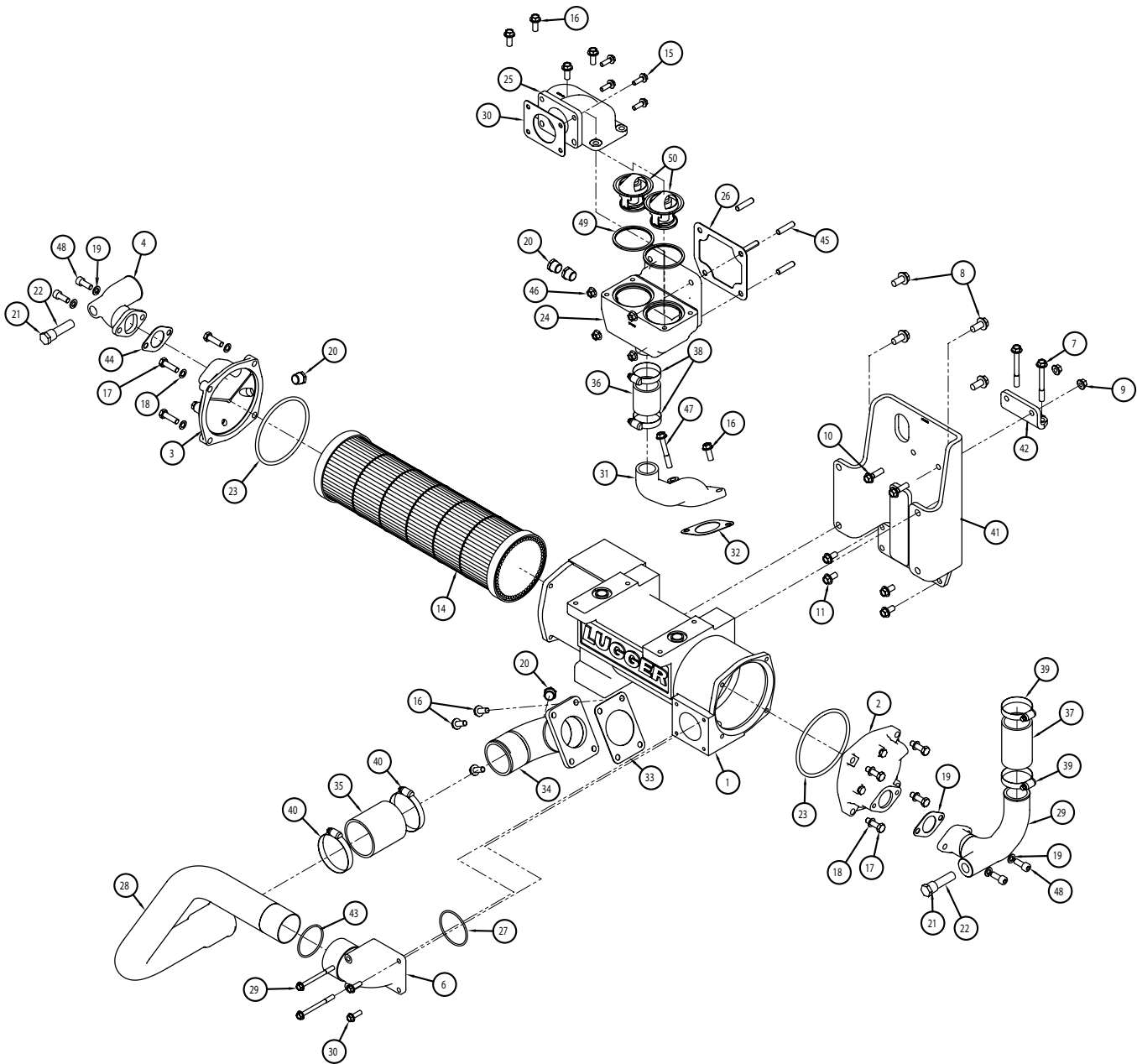
A-12300 / B-9673

EXPANSION TANK

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-15008	1	Expansion Tank	-
2	17-15000	4	Expansion Plug, Brass 1-1/2"	-
3	21-31624	4	Plug, Hex Head Brass 1/4 NPT	-
4	21-19703	1	Plug, Socket Head Steel 3/4 O-ring port	-
5	16-15006	2	O-ring	-
6	16-14804	1	O-ring	-
7	10-14811	1	Filler Neck Assembly	-
8	21-10007	1	Filler Cap 7 PSI	-
9	15-00702	3	Lock Washer, Helical M8	-
10	12-00055	3	Capscrew, Socket head M8 x 1.25 x 20 mm	-
11	12-00050	2	Capscrew, Hex Head M10 x 1.5 x 85 mm	-
12	12-00070	2	Capscrew, Hex Head M10 x 1.5 x 100 mm	-
13	15-00805	4	Flat Washer M10	-
14	21-05404	1	Male Elbow 45° Steel 1/4 NPT x 1/4-37T	-
15	18-14812	1	Hose Assembly 1/4" I.D. x 11-1/2"	-
16	21-71049	1	Male Elbow 90° Steel 1/4 NPT x 1/4-37T	-
17	21-71030	1	Male Connector, Brass 1/4 NPT x 3/8 HB	-
18	41-01020	9"	Hose, 3/8" I.D. -40 to +212°F Push-on	-
19	19-00004	2	Hose Clamp #4	-
20	41-01013	42"	Hose, Polyvinyl 5/16" I.D. x 7/16" O.D.	-
21	00-04808	1	Nameplate "6125"	-

HEAT EXCHANGER AND THERMOSTAT HOUSING L-M6125H2

Generator sets & propulsion engines with water jet drives or transmission mounted gear oil coolers



HEAT EXCHANGER AND THERMOSTAT HOUSING L-M6125H2

Generator sets & propulsion engines with water jet drives or transmission mounted gear oil coolers

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-14832	1	Heat Exchanger Housing	-
2	20-14819	1	End Cover, Heat Exchanger	-
3	20-14814	1	End Cover, Heat Exchanger	-
4	21-15007	1	Elbow, Raw Water Connection	-
5	21-31624	4	Plug, Hex Head Brass 1/4 NPT	-
6	21-15024	1	Elbow, Coolant Outlet	-
7	01435-01085	2	Capscrew, Hex Head Flanged M10 x 1.5 x 85 mm Grade 10.9	-
8	01435-01225	4	Capscrew, Hex Head Flanged m12 x 1.75 x 25 mm Grade 10.9	-
9	01584-01008	2	Hex Nut, Flanged M10 x 1.5	-
10	01435-01035	2	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
11	01435-01020	5	Capscrew, Hex Head Flanged M10 x 1.5 x 20 mm Grade 10.9	-
12	01435-00890	2	Capscrew, Hex Head Flanged M8 x 1.25 x 90 mm Grade 10.9	-
13	01435-00825	2	Capscrew, Hex Head Flanged M8 x 1.25 x 25 mm Grade 10.9	-
14	20-15000	1	Element, Heat Exchanger	-
15	01435-00825	4	Capscrew, Hex Head Flanged M8 x 1.25 x 25 mm Grade 10.9	-
16	01435-01025	95	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
17	12-09814	8	Capscrew, Hex Head M10 x 1.5 x 35 mm S/S	-
18	15-09805	8	Flat Washer M10 S/S	-
19	15-00808	4	Lock Washer, Helical M10 S/S	-
20	21-00530	1	Plug, Hex Head Brass 1/2 NPT	-
21	21-10000	2	Plug, Hex Head Brass 1/2 NPT	-
22	21-10010	2	Zinc Anode	-
23	16-14802	2	O-ring	-
24	10-14831	1	Thermostat Housing	-
25	20-14821	1	Thermostat Cover	-
26	11-14808	1	Gasket, Thermostat Housing	-
27	16-15705	1	O-ring	-
28	27-14852	1	Tube, Heat Exchanger Outlet	-
29	27-14855	1	Elbow, Aftercooler Raw Water Outlet	-
30	11-15001	1	Gasket, Coolant Outlet to Heat Exchanger	-
31	27-14850	1	Connector, Coolant Bypass	-
32	6150-61-1821	1	Gasket	-
33	11-19701	1	Gasket, Heat Exchanger & Gear oil Cooler Outlet	-
34	27-14853	1	Elbow, Coolant Pump Inlet	-
35	18-75001	1	Hose, 2-7/8" I.D. x 3-1/2" 3 Ply Silicone	-
36	18-22002	1	Hose, 1-3/4" I.D. x 2-1/4" 3 Ply Silicone	-
37	18-26002	1	Hose, 2" I.D. x 3-3/4" 3 Ply Silicone	-
38	19-01028	2	Hose Clamp #28 Extended Band S/S	-
39	19-01032	2	Hose Clamp #32 Extended Band S/S	-
40	19-01048	2	Hose Clamp #48 Extended Band S/S	-
41	23-04813	1	Bracket, Heat Exchanger Support & Front Lifting Eye	-
42	23-84856	1	Bracket, Lifting Eye Brace	-
43	16-13101	1	O-ring	-
44	11-14804	2	Gasket	-
45	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA) Grade 8.8	-
46	01584-01008	4	Hex Nut, Flanged M10 x 1.5	-
47	01435-01065	1	Capscrew, Hex Head Flanged M10 x 1.5 x 65 mm Grade 10.9	-
48	12-34805	4	Capscrew, Socket Head M10 x 1.5 x 25 mm S/S	-
49	6138-11-6810	2	Gasket, Thermostat Seal	-
50	600-421-6320	2	Thermostat 180°F/ 82°C	-

This exploded view diagram illustrates the assembly of a LUGGER fog machine. The central component is the fog nozzle, labeled 'LUGGER', which is connected to a large cylindrical fog canister (14) via a long, curved hose (28). The canister is secured with a cap (23) and a gasket (20). The nozzle assembly includes a handle (41) and a trigger gun (31) connected by a cable (8). The trigger gun has a trigger (7) and a safety lock (9). The nozzle is also connected to a power source (1) via a cable (11). The power source is connected to a power cord (50) and a power plug (12). The power plug is connected to a power outlet (13). The power source is also connected to a power switch (15) and a power button (16). The power switch is connected to a power indicator light (17) and a power meter (18). The power meter is connected to a power meter (19) and a power meter (20). The power meter (20) is connected to a power meter (21) and a power meter (22). The power meter (22) is connected to a power meter (23) and a power meter (24). The power meter (24) is connected to a power meter (25) and a power meter (26). The power meter (26) is connected to a power meter (27) and a power meter (28). The power meter (28) is connected to a power meter (29) and a power meter (30). The power meter (30) is connected to a power meter (31) and a power meter (32). The power meter (32) is connected to a power meter (33) and a power meter (34). The power meter (34) is connected to a power meter (35) and a power meter (36). The power meter (36) is connected to a power meter (37) and a power meter (38). The power meter (38) is connected to a power meter (39) and a power meter (40). The power meter (40) is connected to a power meter (41) and a power meter (42). The power meter (42) is connected to a power meter (43) and a power meter (44). The power meter (44) is connected to a power meter (45) and a power meter (46). The power meter (46) is connected to a power meter (47) and a power meter (48). The power meter (48) is connected to a power meter (49) and a power meter (50). The power meter (50) is connected to a power meter (51) and a power meter (52).

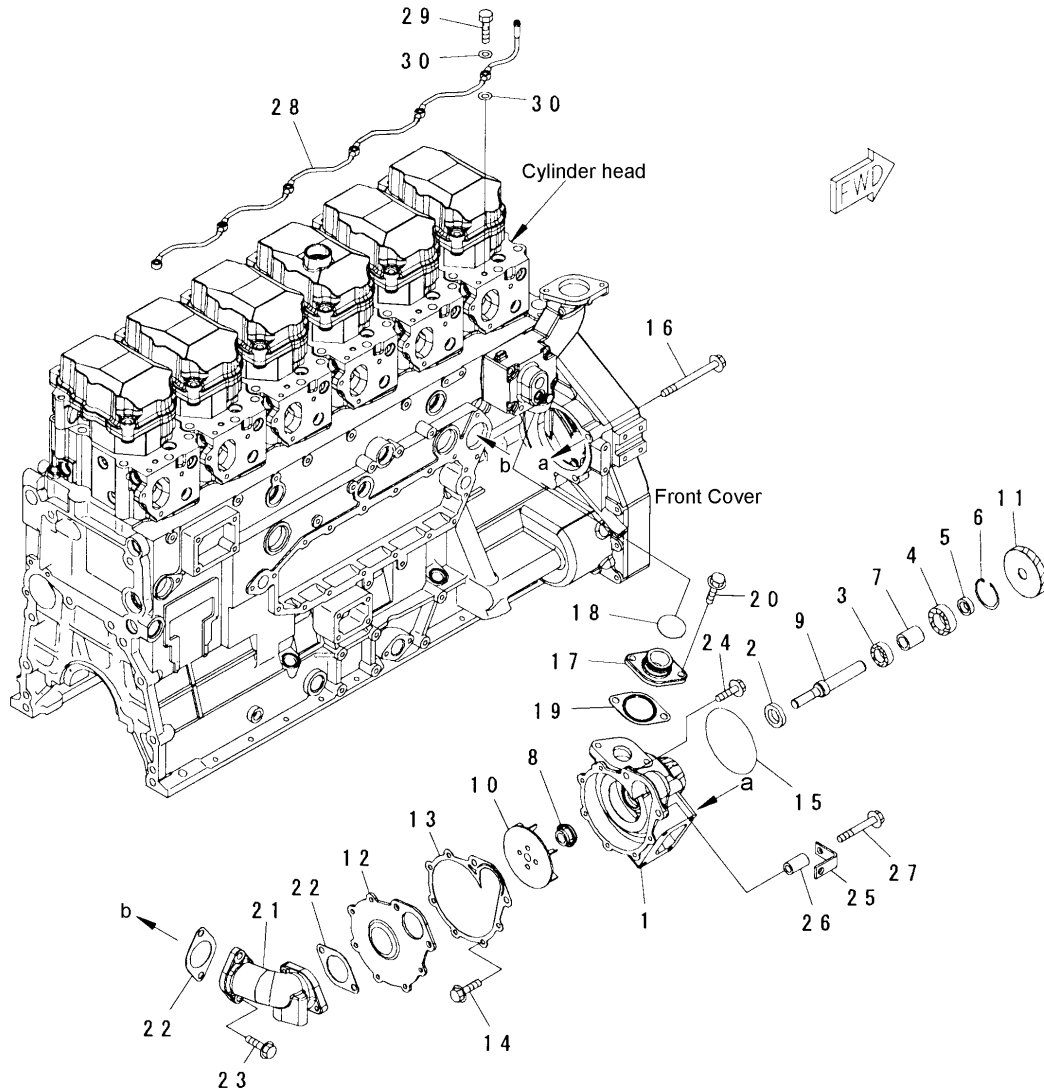
3 - 4

HEAT EXCHANGER AND THERMOSTAT HOUSING

Propulsion engines with coolant pump inlet mounted gear oil cooler.

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-14832	1	Heat Exchanger Housing	-
2	20-14819	1	End Cover, Heat Exchanger	-
3	20-14814	1	End Cover, Heat Exchanger	-
4	21-15007	1	Elbow, Raw Water Connection	-
5	21-31624	4	Plug, Hex Head Brass 1/4 NPT	-
6	21-15024	1	Elbow, Coolant Outlet	-
7	01435-01085	2	Capscrew, Hex Head Flanged M10 x 1.5 x 85 mm Grade 10.9	-
8	01435-01225	4	Capscrew, Hex Head Flanged m12 x 1.75 x 25 mm Grade 10.9	-
9	01584-01008	2	Hex Nut, Flanged M10 x 1.5	-
10	01435-01035	2	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
11	01435-01020	5	Capscrew, Hex Head Flanged M10 x 1.5 x 20 mm Grade 10.9	-
12	01435-00890	2	Capscrew, Hex Head Flanged M8 x 1.25 x 90 mm Grade 10.9	-
13	01435-00825	2	Capscrew, Hex Head Flanged M8 x 1.25 x 25 mm Grade 10.9	-
14	20-15000	1	Element, Heat Exchanger	-
15	01435-00825	4	Capscrew, Hex Head Flanged M8 x 1.25 x 25 mm Grade 10.9	-
16	01435-01025	5	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
17	12-09814	6	Capscrew, Hex Head M10 x 1.5 x 35 mm S/S	-
18	15-09805	8	Flat Washer M10 S/S	-
19	15-00808	4	Lock Washer, Helical M10 S/S	-
20	21-00530	2	Plug, Hex Head Brass 1/2 NPT	-
21	21-10000	2	Plug, Hex Head Brass 1/2 NPT	-
22	21-10010	2	Zinc Anode	-
23	16-14802	2	O-ring	-
24	10-14831	1	Thermostat Housing	-
25	20-14821	1	Thermostat Cover	-
26	11-14808	1	Gasket, Thermostat Housing	-
27	16-15705	1	O-ring	-
28	27-14857	1	Tube, Gear Oil Cooler Inlet	-
29	27-14855	1	Elbow, Aftercooler Raw Water Outlet	-
30	11-15001	1	Gasket, Coolant Outlet to Heat Exchanger	-
31	27-14850	1	Connector, Coolant Bypass	-
32	6150-61-1821	1	Gasket	-
33	6138-11-6810	2	Gasket, Thermostat Seal	-
34	600-421-6320	2	Thermostat 180°F/ 82°C	-
35	18-75001	1	Hose, 2-7/8" I.D. x 3-1/2" 3 Ply Silicone	-
36	18-22002	1	Hose, 1-3/4" I.D. x 2-1/4" 3 Ply Silicone	-
37	18-26002	1	Hose, 2" I.D. x 3-3/4" 3 Ply Silicone	-
38	19-01028	2	Hose Clamp #28 Extended Band S/S	-
39	19-01032	2	Hose Clamp #32 Extended Band S/S	-
40	19-01048	2	Hose Clamp #48 Extended Band S/S	-
41	23-04813	1	Bracket, Heat Exchanger Support & Front Lifting Eye	-
42	23-84856	1	Bracket, Lifting Eye Brace	-
43	16-13101	1	O-ring	-
44	11-14804	2	Gasket	-
45	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA) Grade 8.8	-
46	01584-01008	5	Hex Nut, Flanged M10 x 1.5	-
47	01435-01065	1	Capscrew, Hex Head Flanged M10 x 1.5 x 65 mm Grade 10.9	-
48	12-34805	4	Capscrew, Socket Head M10 x 1.5 x 25 mm S/S	-
49	23-14820	1	Bracket	-
50	19-14820	1	Adelle Clamp 2-1/2"	-
51	12-09812	1	Capscrew, Hex Head M10 x 1.5 x 40mm S/S	-

COOLANT PUMP

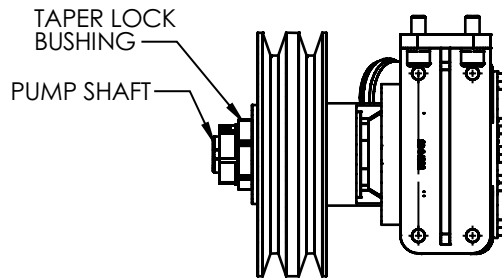


FigA5010-A3N6

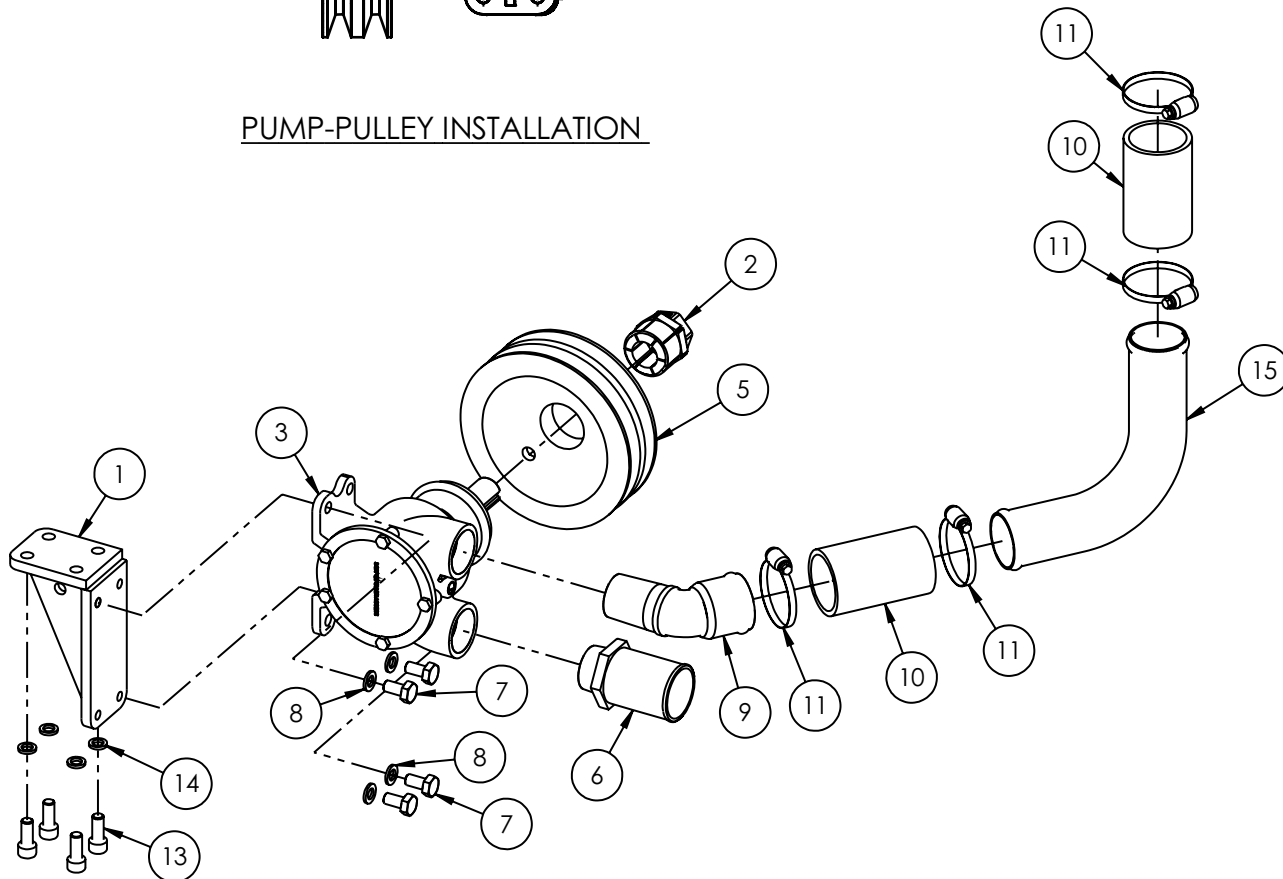
COOLANT PUMP

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-61-1100	1	Coolant Pump Assembly	-
2	6150-61-1510	1	Oil Seal	-
3	06030-06004	1	Ball Bearing	-
4	06030-06304	1	Ball Bearing	-
5	6150-61-1350	1	Spacer	-
6	04065-05220	1	Snap Ring	-
7	6151-61-1360	1	Spacer	-
8	6211-61-1532	1	Water Seal	-
9	6151-62-1310	1	Shaft	-
10	6251-61-1210	1	Impeller	-
11	6150-61-1410	1	Gear	-
12	6154-61-1150	1	Cover	-
13	6151-61-1162	1	Gasket	-
14	01435-00816	6	Bolt	-
15	07000-72115	1	O-ring	-
16	01436-01025	3	Bolt	-
17	6150-62-6510	1	Connector	-
18	02893-05037	1	O-ring	-
19	6150-61-1821	1	Gasket	-
20	01435-01020	2	Bolt	-
21	6251-61-6310	1	Connector	-
22	6150-61-1821	2	Gasket	-
23	01435-01030	2	Bolt	-
24	01435-01035	1	Bolt	-
25	6934-71-5860	1	Bracket	-
26	6142-22-4640	1	Spacer	-
27	01435-01080	1	Bolt	-
28	6251-11-6460	1	Air Vent Tube	-
29	07206-30710	6	Joint Bolt	-
30	07005-01012	12	Gasket	-

RAW WATER PUMP & MOUNTING



PUMP-PULLEY INSTALLATION



A-12302/ B-9674

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-14822	1	Bracket, Raw Water Pump Mounting	-
2	34-14804	1	Bushing, Tapered Locking type	-
3	25-14801	1	Raw Water Pump	-
5	34-14803	1	Pulley, 2-A/B x 6-3/4"	-
6	21-14831	1	Male Connector, Copper 1-1/4" NPT x 2" HB	-
7	12-00805	4	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
8	15-00802	4	Lock Washer, Helical M10	-
9	21-14832	1	Male Elbow, 55° Copper 1-1/4" NPT x 2" HB	-
10	18-26002	2	Hose, 2" I.D. x 3-3/4" 3 Ply Silicone	-
11	19-01032	4	Hose Clamp #32 Extended Band S/S	-
13	12-34803	4	Capscrew, Socket Head M10 x 1.5 x 25 mm	-
14	15-00803	4	Lock Washer, Hi-collar M10	-
15	27-14854	1	Tube, Aftercooler Raw Water Inlet	-

LUBRICATING OIL COOLER

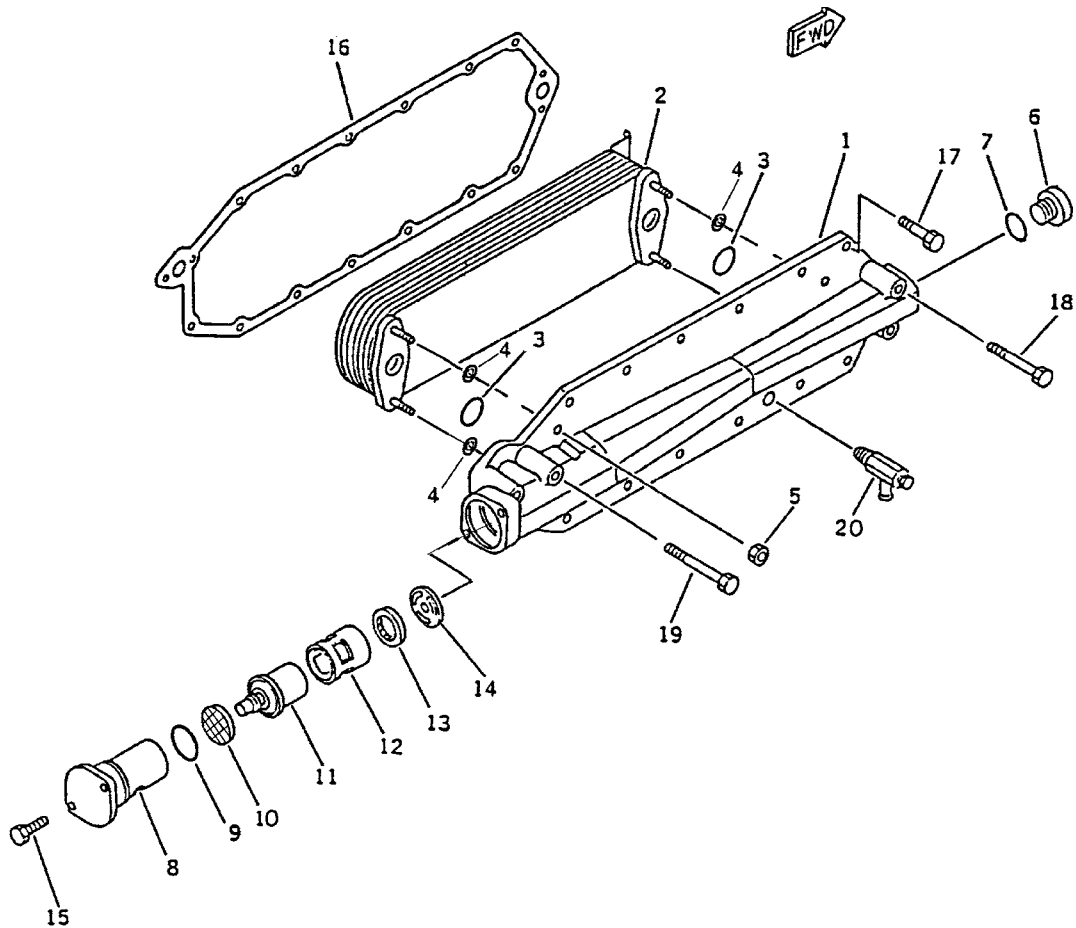
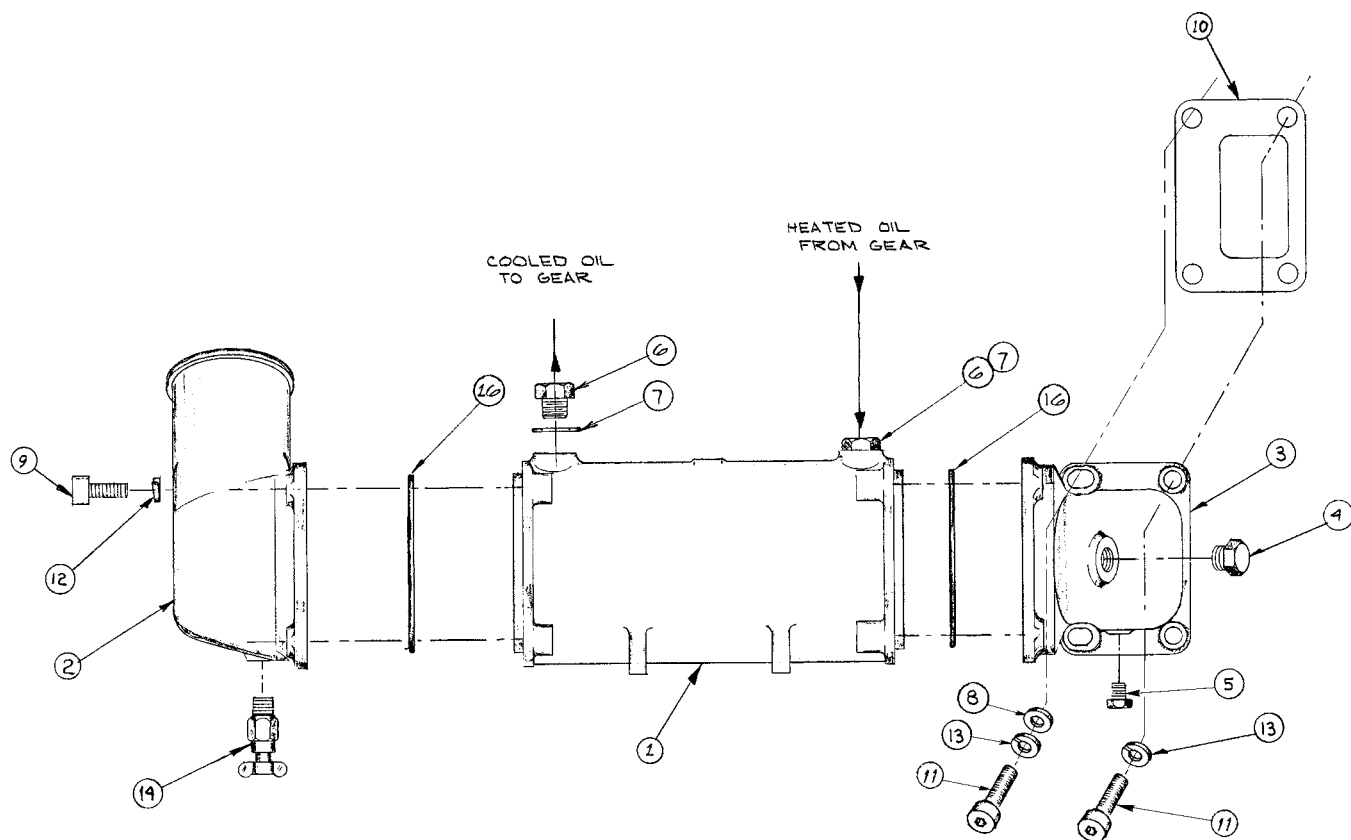


Fig. 341a

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	6251-61-2300	1	Oil Cooler Assembly (includes keys 1-15)	-
1	6152-61-2125	1	Cover	-
2	6152-62-2210	1	Element	-
3	6150-61-2510	2	O-ring	-
4	6150-61-2520	4	O-ring	-
5	6150-61-2580	4	Nut	-
6	6150-61-2530	1	Plug	-
7	6150-61-2550	1	O-ring	-
8	6151-62-2130	1	Cover	-
9	07000-63042	1	O-ring	-
10	6151-62-2180	1	Strainer	-
11	6251-61-2610	1	Thermostat	-
12	6150-61-2141	1	Case	-
13	6150-61-2151	1	Seal	-
14	6150-61-2151	1	Plate	-
15	01435-00825	2	Capscrew, Hex Head Flanged M8 x 1.25 x 25mm	-
16	6150-61-2815	1	Oil Cooler Gasket	-
17	01435-01025	13	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm	-
18	01435-01065	2	Capscrew, Hex Head Flanged M10 x 1.5 x 65 mm	-
19	01435-01080	2	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm	-
20	6140-61-6512	1	Valve	-

GEAR OIL COOLER

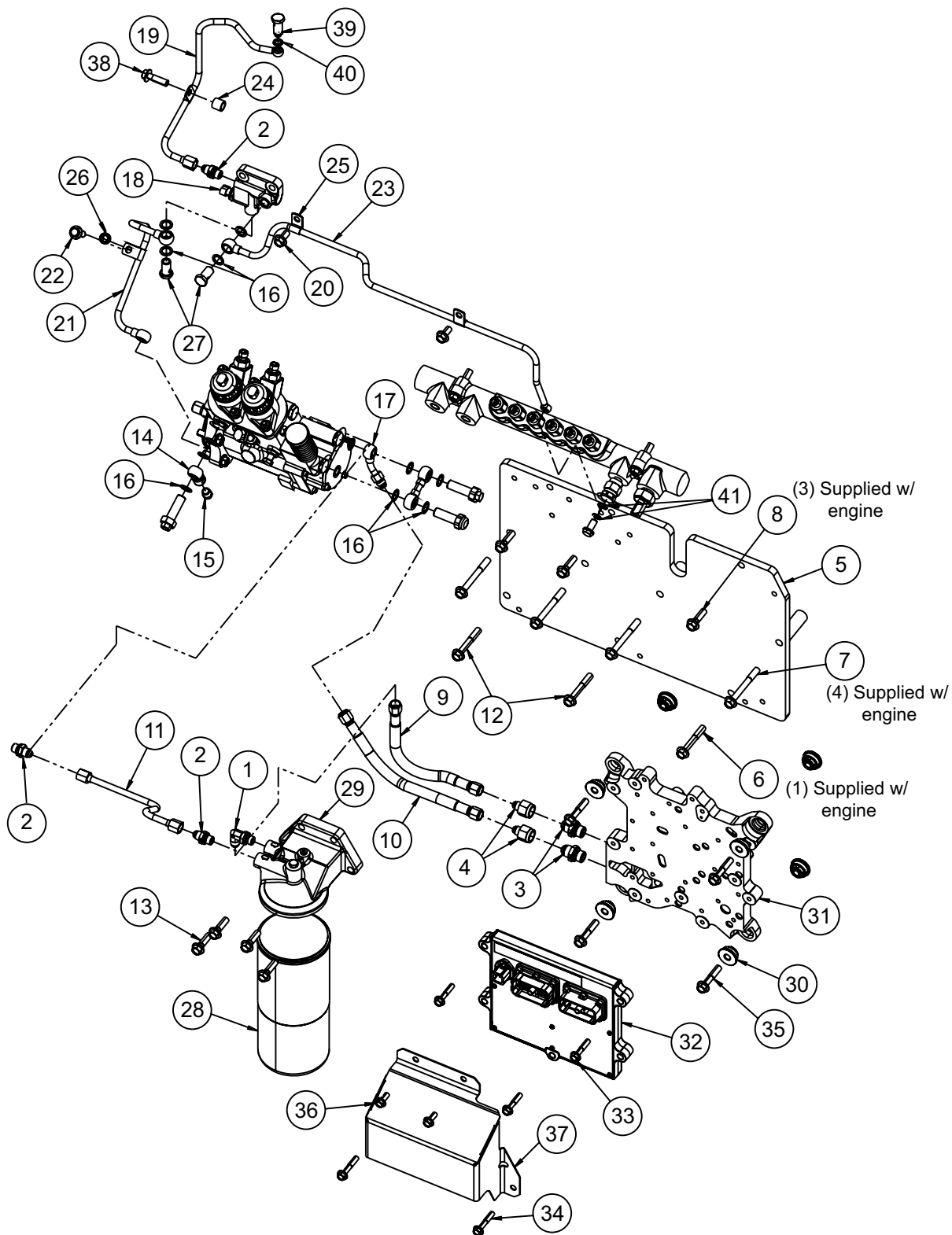


A-2313/ C-1682

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	20-64800	1	Gear Oil Cooler (includes keys 1, 15, & 16)	-
1	10-04803	1	Housing	-
2	20-14800	1	End Cap (Inlet)	-
3	20-14801	1	End Cap (Outlet)	-
4	21-00530	1	Brass Plug, Hex Head 1/2 NPT	-
5	21-31624	1	Brass Plug, Hex Head 1/4 NPT	-
6	31-14802	2	Bushing 1-1/4 BSPP x 3/4 NPT	-
7	11-14807	2	Gasket	-
8	15-00805	2	Flat Washer M10	-
9	12-14802	8	Capscrew, Socket Head M8 x 1.25 x 30 mm	-
10	6150-61-6910	1	Gasket (can use 11-14806)	-
11	12-34802	4	Capscrew, Socket Head M10 x 1.5 x 30 mm	-
12	15-00704	8	Lock Washer, High Collar	-
13	15-00803	4	Lock Washer, High Collar	-
14	21-10002	1	Drain Cock 1/4 NPT	-
15	20-64802	1	Element (not shown)	-
16	16-64801	2	O-ring	-

NOTES

FUEL SYSTEM - GENERAL ARRANGEMENT

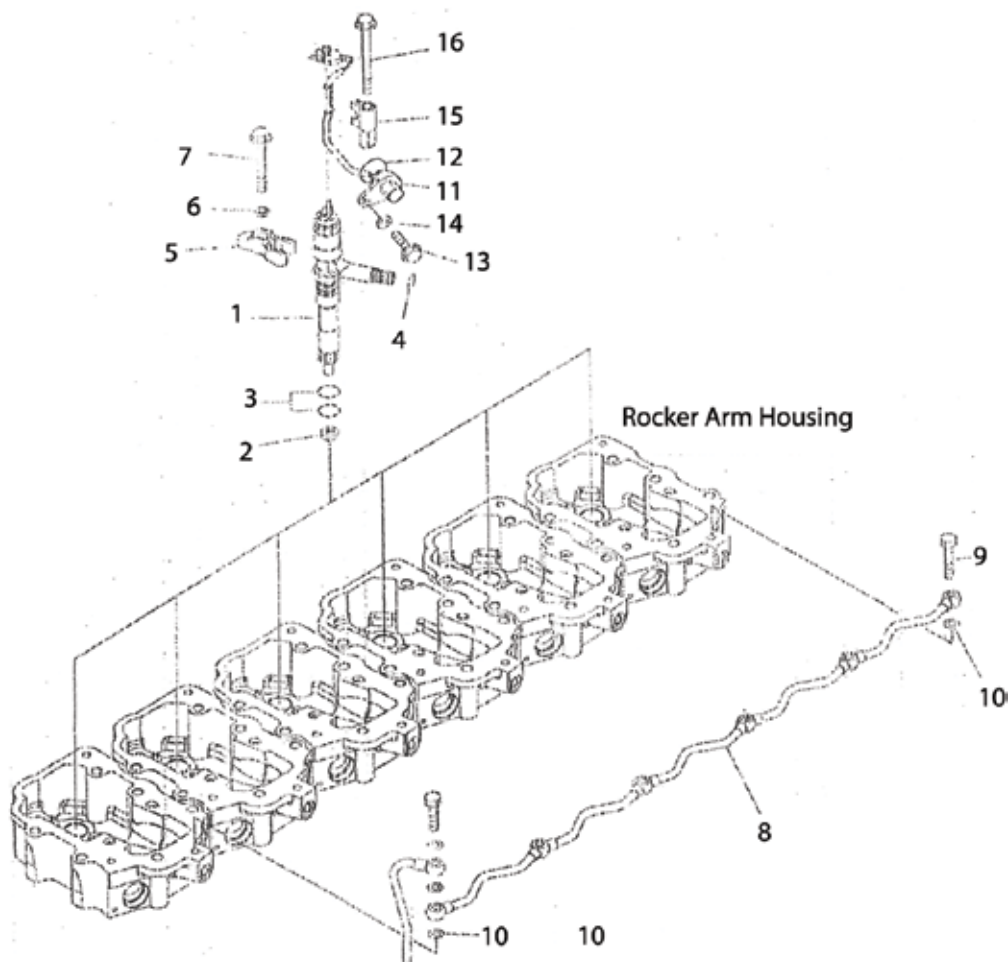


A-12355/ C-6711

FUEL SYSTEM - GENERAL ARRANGEMENT

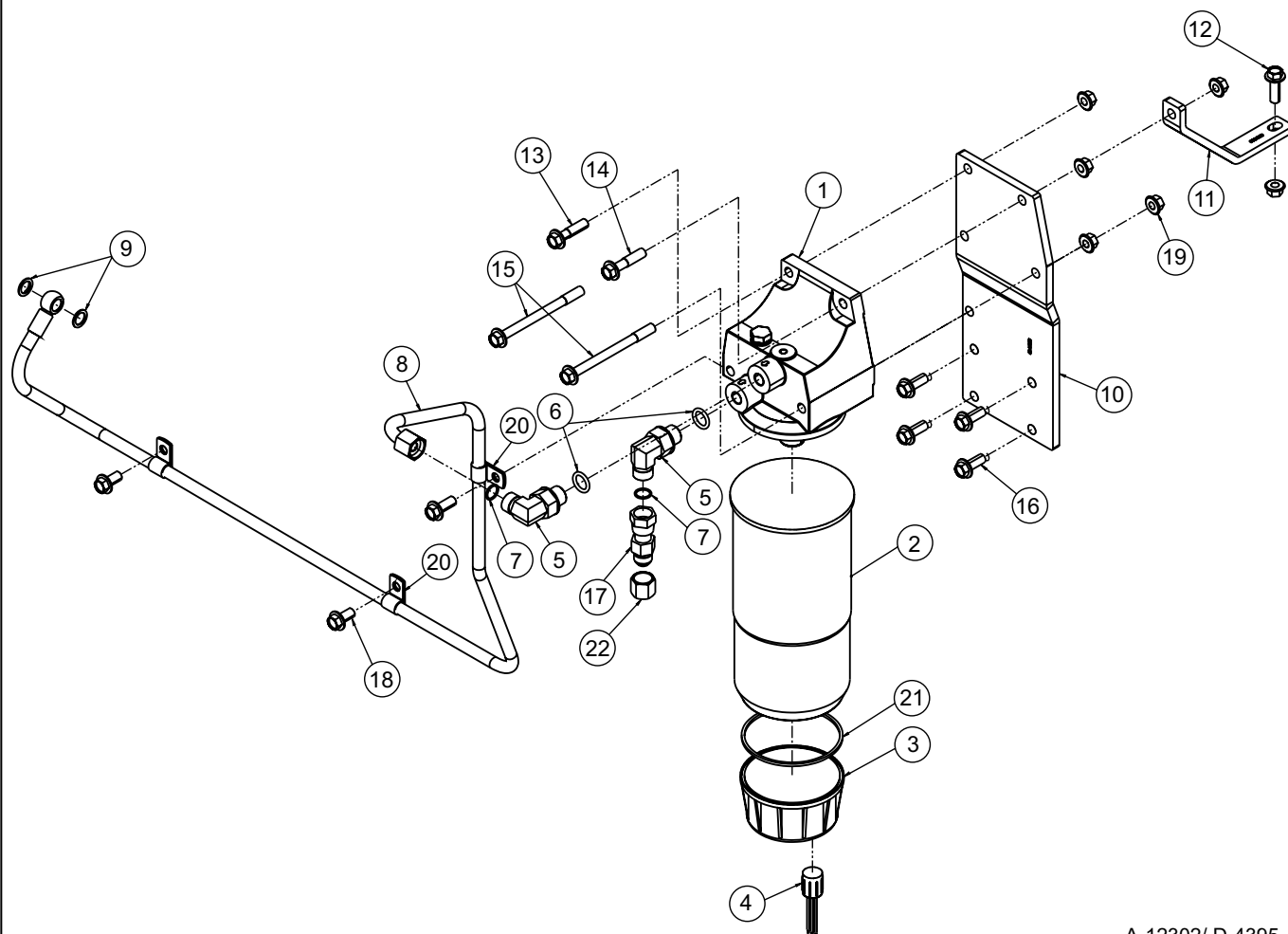
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-54901	1	Male Elbow, 90° Steel M14 x 1.5 x 3/8-37T	-
2	21-56802	3	Male Connector, Steel 3/8-37T x M14 x 1.5	-
3	21-69602	2	Male Connector, Steel 1/2-37T x M18 x 1.5	-
4	21-64917	2	Tube Reducer, Steel 1/2-37T x 3/8-37T	-
5	28-54801	1	Plate, Fuel Filter & Cooler Mounting	-
6	01435-01065	1	Capscrew, Hex Head Flanged M10 x 1.5 x 65 mm Grade 10.9	-
7	01435-01085	4	Capscrew, Hex Head Flanged M10 x 1.5 x 85 mm Grade 10.9	-
8	01435-01035	3	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
9	18-54816	1	Hose Assembly, 5/16" I.D. x 10-1/4" USCG A-1 SAE J1942	-
10	18-54815	1	Hose Assembly, 5/16" I.D. x 12" USCG A-1 SAE J1942	-
11	27-54810	1	Tube Assembly, Fuel Injection Pump Inlet	-
12	01435-01065	2	Capscrew, Hex Head Flanged M10 x 1.5 x 65 mm Grade 10.9	-
13	01435-01035	4	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
14	21-52203	1	Banjo Fitting, Steel 14 mm x 1/4 NPT Female	-
15	21-31624	1	Plug, Hex Head Brass 1/4 NPT	-
16	07005-01412	8	Sealing Washer, Bonded M14	-
17	27-54809	1	Tube Assembly, Fuel Injection Pump Outlet	-
18	6261-81-6900	1	Temperature Sensor	-
19	27-54805	1	Tube Assembly, Leak-off Return	-
20	01435-01020	2	Capscrew, Hex Head Flanged M10 x 1.5 x 20 mm Grade 10.9	-
21	27-54806	1	Tube, Fuel Return to Injection Pump	-
22	01435-01030	1	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm Grade 10.9	-
23	27-54807	1	Tube Assembly, HPCR Manifold Pressure Relief	-
24	21-42202	1	Spacer	-
25	19-72252	4	Adelle Clamp	-
26	21-42208	1	Spacer	-
27	07206-11014	2	Banjo Bolt, M14 x 1.5 x 25 mm	-
28	600-319-3550	1	Element, Final Fuel Filter	-
29	6217-71-7300	1	Final Fuel Filter Head Assembly	-
30	6251-81-7210	8	Grommet	-
31	6261-81-7110	1	Fuel Cooler	-
32	26-9480124H470		Engine Control Unit 470HP@2300rpm	-
	26-9480124H440		Engine Control Unit 440HP@2200rpm	-
	26-9480124H350		Engine Control Unit 350HP@1800rpm	-
33	01435-00840	3	Capscrew, Hex Head Flanged M8 x 1.25 x 40 mm Grade 10.9	-
34	01435-00845	2	Capscrew, Hex Head Flanged M8 x 1.25 x 45 mm Grade 10.9	-
35	01435-01050	4	Capscrew, Hex Head Flanged M10 x 1.5 x 50 mm Grade 10.9	-
36	01435-00820	2	Capscrew, Hex Head Flanged M8 x 1.25 x 20 mm Grade 10.9	-
37	6261-81-7330	1	Cover, Engine Control Unit	-
38	01435-01035	1	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-
39	6215-11-6560	1	Banjo Bolt, Double Line M10 x 1.25 x 35 mm	-
40	07005-01012	1	Sealing Washer, Bonded M10	-

FUEL INJECTOR AND SPILL TUBE



KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6251-11-3100	6	Injector Assembly	-
2	6217-713100	6	Gasket	-
3	6219-71-1150	12	Gasket	-
4	6219-71-1150	6	Gasket	-
5	6156-71-1161	6	Holder, Support	-
6	6217-71-1140	6	Washer	-
7	01437-01075	6	Bolt	-
8	6251-71-5340	1	Tube	-
9	6934-72-7190	5	Bolt, Joint	-
10	07005-01012	11	Gasket	-
11	6156-81-9110	6	Wiring Harness	-
12	07000-E3024	6	O-Ring	-
13	6156-81-9130	6	Bolt	-
14	01640-20610	6	Washer	-
15	6156-81-9150	6	Holder, Harness	-
16	01435-00870	6	Bolt	-

PRIMARY FUEL FILTER



A-12302/ D-4395

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	6151-71-7100	1	Fuel Filter Head Assembly	-
2	600-319-4540	1	Element, Primary Fuel Filter	-
3	6261-81-9250	1	Clear Bowl Assembly	-
4	6261-81-9260	1	Water Sensor	-
5	02782-10422	2	Male Elbow 90° Steel M20 x 1.5	-
6	07002-12034	2	O-ring	-
7	02896-11012	2	O-ring	-
8	27-54808	1	Tube Assembly	-
9	07005-01412	2	Sealing Washer M14	-
10	23-54808	1	Bracket	-
11	23-54809	1	Bracket	-
12	01435-01030	1	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm Grade 10.9	-
13	01435-01040	1	Capscrew, Hex Head Flanged M10 x 1.5 x 40 mm Grade 10.9	-
14	01435-01045	1	Capscrew, Hex Head Flanged M10 x 1.5 x 45 mm Grade 10.9	-
15	01436-01020	2	Capscrew, Hex Head Flanged M10 x 1.5 x 120 mm Grade 10.9	-
16	01435-01025	5	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
17	21-50049	1	Female Connector, Steel 1/2 O-ring face x 1/2-37T	-
18	01435-01020	2	Capscrew, Hex Head Flanged M10 x 1.5 x 20 mm Grade 10.9	-
19	01584-01008	6	Hex Nut, Flanged M10 x 1.5	-
20	19-43201	3	Adelle Clamp 1/2" I.D. x 3/8" Stud	-
21	21-00006	1	Cap, Hex Head Steel 1/2-37T	-

24 VOLT ISOLATED GROUND ELECTRICAL

A-12385/

24 VOLT ISOLATED GROUND ELECTRICAL

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-44881	1	Wire Harness	-
2	22-45078	1	Starter, 24 Volt Isolated Ground	-
3	12-45001	3	Capscrew, 12 Point M16 x 2 x 40 mm	-
4	22-41079	1	Solenoid 24 Volt DC 85 Amp Isolated Ground	-
5	23-40009	1	Bracket, Solenoid Mtg.	-
6	19-00088	1	Hose Clamp #88	-
7	14-00112	2	Hex Nut, Nylock 1/4-20	-
8	15-00121	2	Flat Washer 1/4" SAE	-
9	23-44838	1	Bracket, Circuit Breaker & Relay Panel Mtg.	-
10	22-44879	1	Engine Wire Harness Assembly, Isolated Ground	-
11	00-44801	1	Cover, Circuit Breaker & Relays	-
12	12-00094	2	Machine Screw, Phillips Head #10-32 x 3/8" S/S	-
13	15-70002	2	Flat Washer #10 S/S	-
14	12-00100	2	Capscrew, Hex Head 1/4-20 x 1/2	-
15	14-00111	2	Hex Nut, 1/2-20	-
16	15-00102	2	Lock Washer, Helical 1/4"	-
17	12-03009	2	Machine Screw, Phillips #10-32 x 7/8 S/S	-
18	23-40019	1	Bracket	-
19	22-40537	1	Circuit Breaker 30 Amp	-

STARTING MOTOR AND MOUNTING

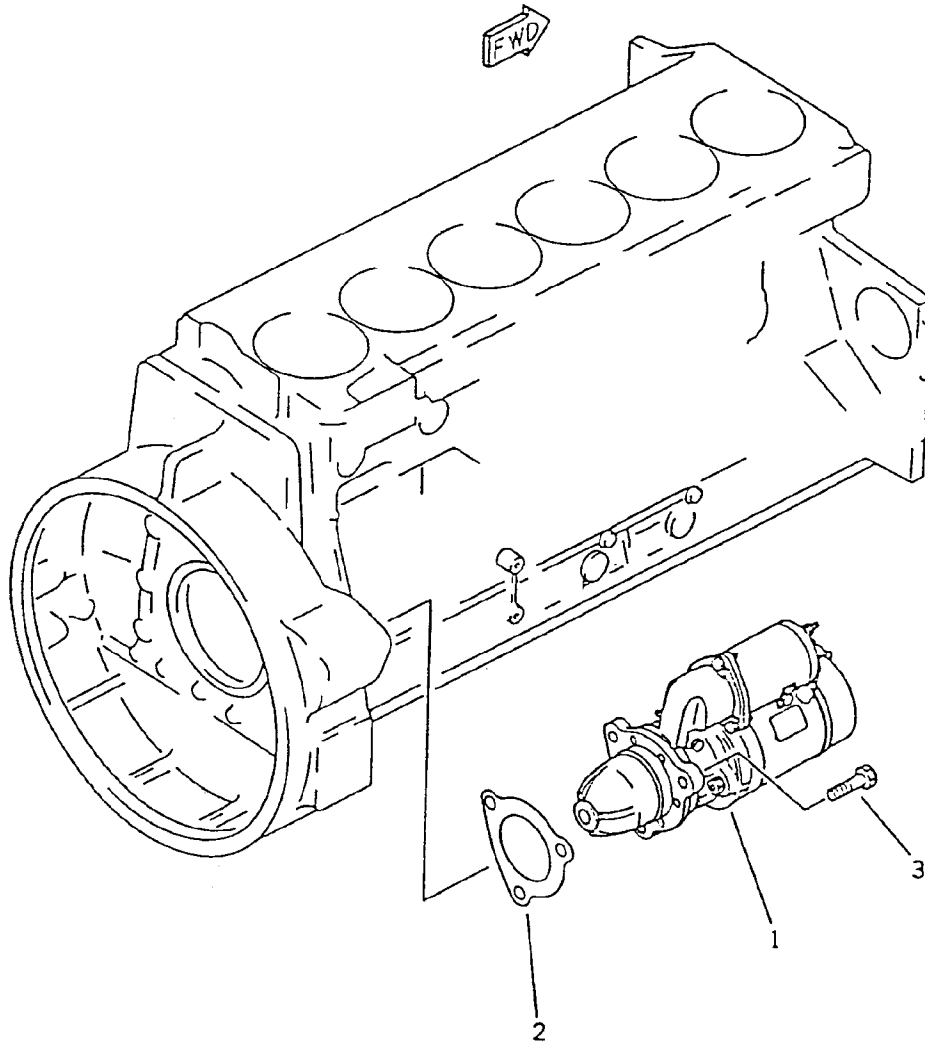
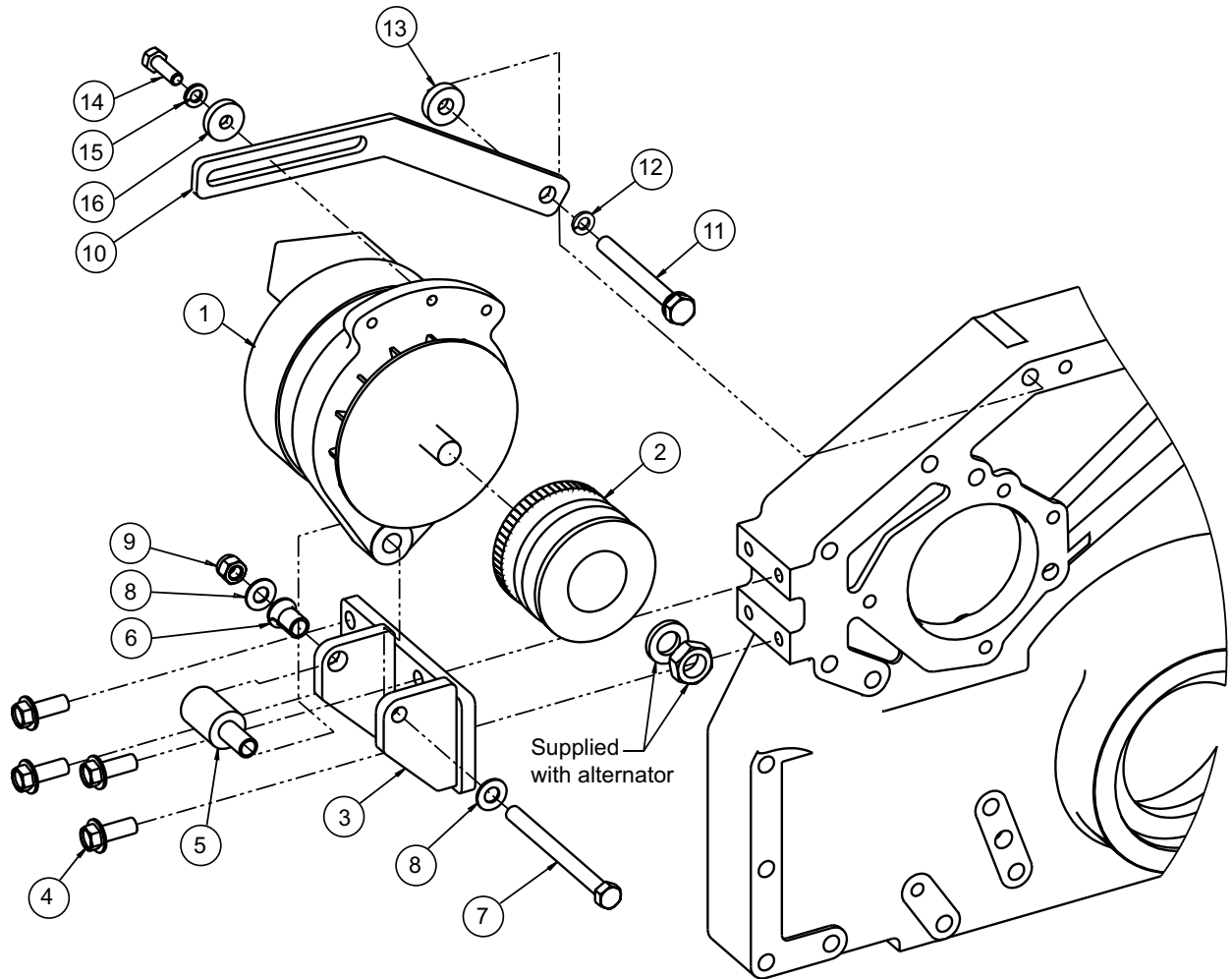


fig. 6101

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-45078	1	Starting Motor, 24 Volt	-
	22-45039	1	Starting Motor, 12 Volt	-
2	6221-81-6810	1	Gasket	-
3	12-45001	3	Capscrew, 12 Point M16 x 2.0 x 40 mm	-

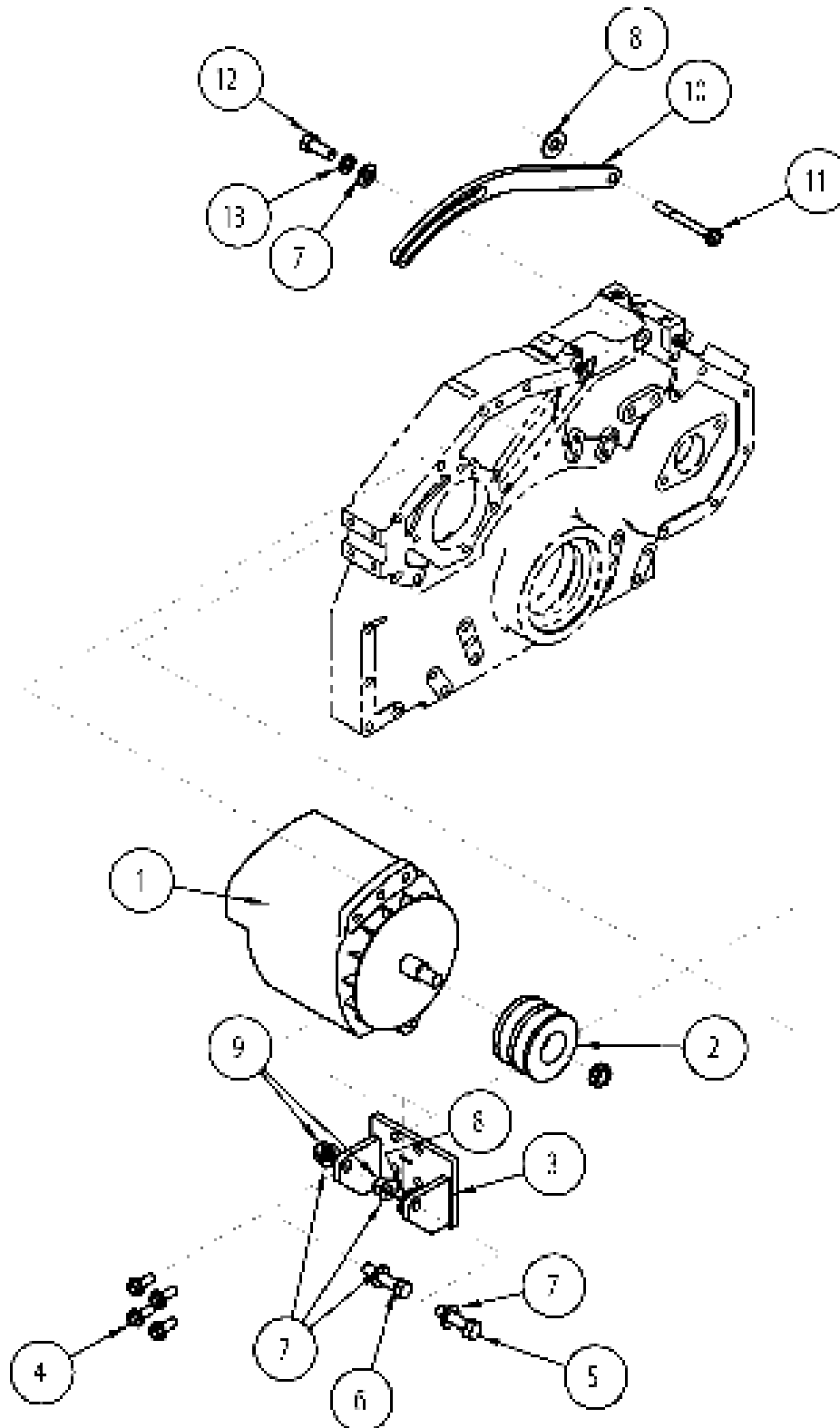
24 VOLT/ 35 AMP ALTERNATOR



A-12331/ C-6710

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-71052	1	Alternator, 24 Volt/ 35 Amp ISO Ground	-
2	34-44801	1	Pulley, 2-A/B x 3-1/4" x 5/8" I.D.	-
3	23-44830	1	Bracket, Medium Frame Alternator	-
4	01435-01025	4	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
5	31-45401	1	Adapter, Alternator Mtg.	-
6	R100377	1	Bushing	-
7	12-00309	1	Capscrew, Hex Head 3/8-16 x 4-1/2"	-
8	15-00321	2	Flat Washer 3/8" SAE	-
9	14-00312	1	Hex Nut, Nylock 3/8-16	-
10	23-44802	1	Tensioning Arm	-
11	12-00051	1	Capscrew, Hex Head M10 x 1.5 x 90 mm Grade 8.8	-
12	15-00802	1	Lock Washer, Helical M10	-
13	21-49502	1	Spacer	-
14	12-00212	1	Capscrew, Hex Head 5/16- 18 x 1"	-
15	15-00202	1	Lock Washer, Helical 5/16	-
16	15-00201	1	Stud Washer 5/16	-

24 VOLT/ 100 AMP ALTERNATOR L - M6125H2



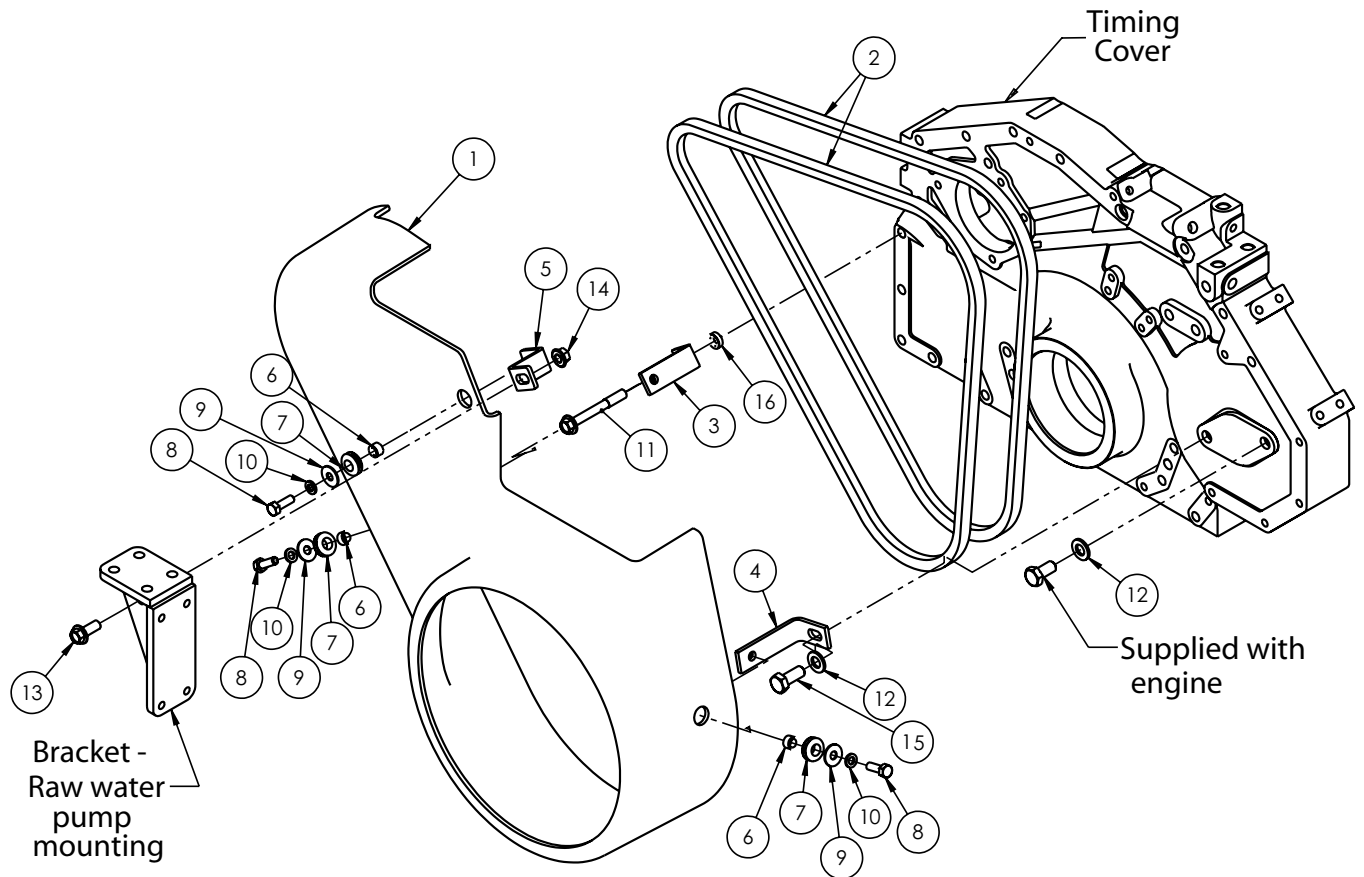
B-10063

24 VOLT/ 100 AMP ALTERNATOR L - M6125H2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-45018	1	Alternator 24V/ 100 Amp Isolated Ground	-
2	34-44802	1	Pulley 2-A/B x 3-1/4" x 7/8" I.D.	-
3	23-44835	1	Bracket, Large Frame Alternator Mtg	-
4	01435-01025	4	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
5	12-00516	1	Capscrew, Hex Head 1/2-13 x 2"	-
6	12-00517	1	Capscrew, Hex Head 1/2-13 x 2-1/4"	-
7	15-00504	5	Flat Washer 1/2" SAE	-
8	15-00501	2	Flat Washer 1/2" USS	-
9	14-00512	2	Hex Nut, Nylock 1/2-13	-
10	23-44837	1	Tensioning Arm	-
11	12-00051	1	Capscrew, Hex Head Flanged M10 x 1.5 x 90 mm	-
12	12-00513	1	Capscrew, Hex Head 1/2-13 x 1-1/4"	-
13	15-00502	2	Lock Washer, Helical 1/2" Grade 10.9	-
14	22-46801	1	Cable #2 AWG x 35 1/2" Positive	-
15	22-46802	1	Cable #2 AWG x 38 3/4" Negative	-

} not shown

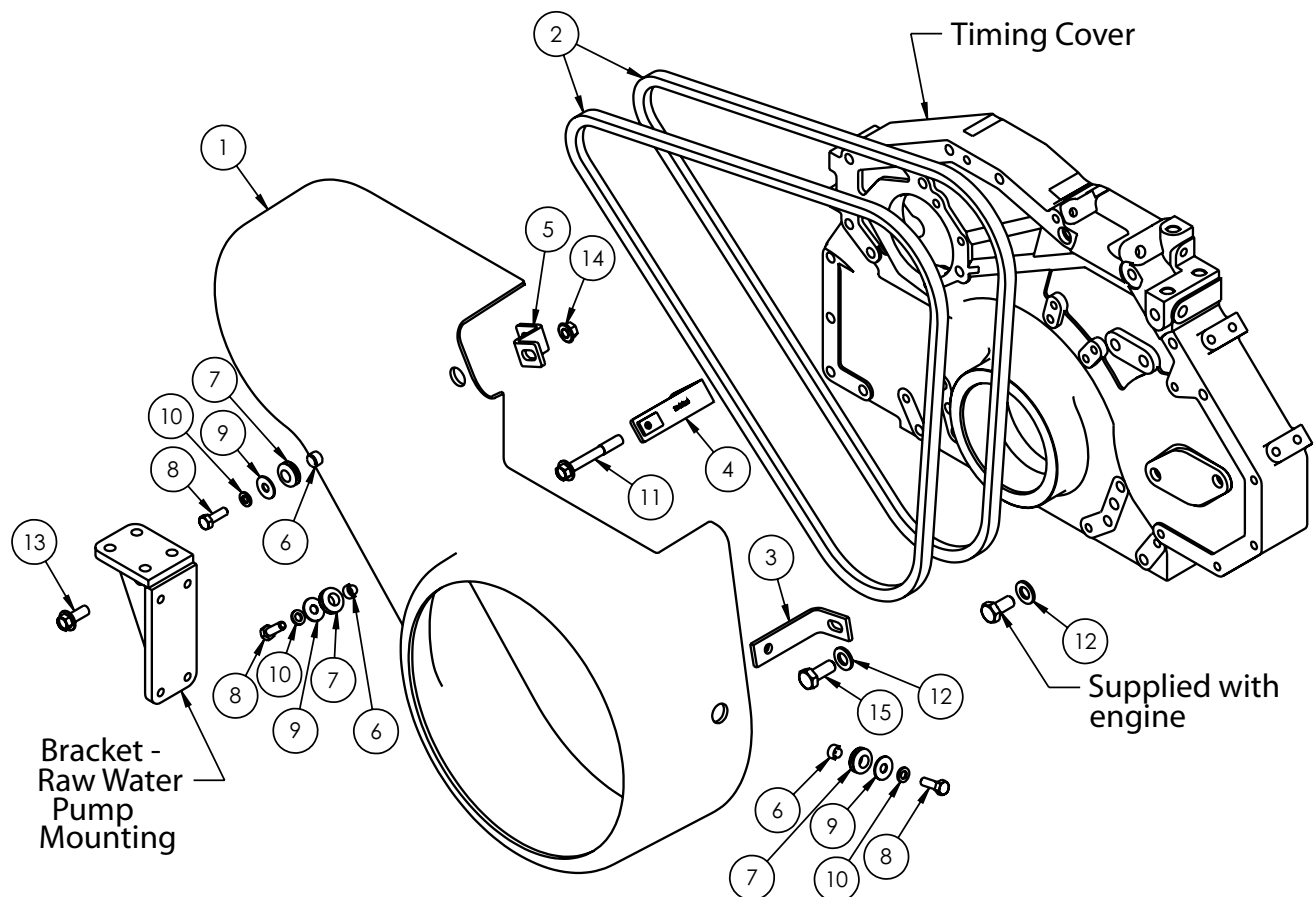
NOTES

BELT GUARD - MEDIUM FRAME ALTERNATOR

A-12431/ B-9688

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-04811	1	Belt Guard, Medium Frame Alternator without PTO	-
2	40-44802	1	Drive Belt Set	-
3	23-04801	1	Bracket	-
4	23-04802	1	Bracket	-
5	23-04805	1	Bracket	-
6	21-05002	3	Spacer	-
7	00-00017	3	Grommet	-
8	12-09712	3	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-70004	3	Snubbing Washer S/S	-
10	15-00705	3	Lock Washer Helical M8 S/S	-
11	01435-01080	1	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm Grade 10.9	-
12	15-09007	2	Flat Washer M12 S/S	-
13	01435-01025	1	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
14	01584-01008	1	Hex Nut, Flanged M10 x 1.5	-
15	01050-51230	1	Capscrew, Hex Head M12 x 1.5 x 30 mm	-
16	21-42208	1	Spacer	-

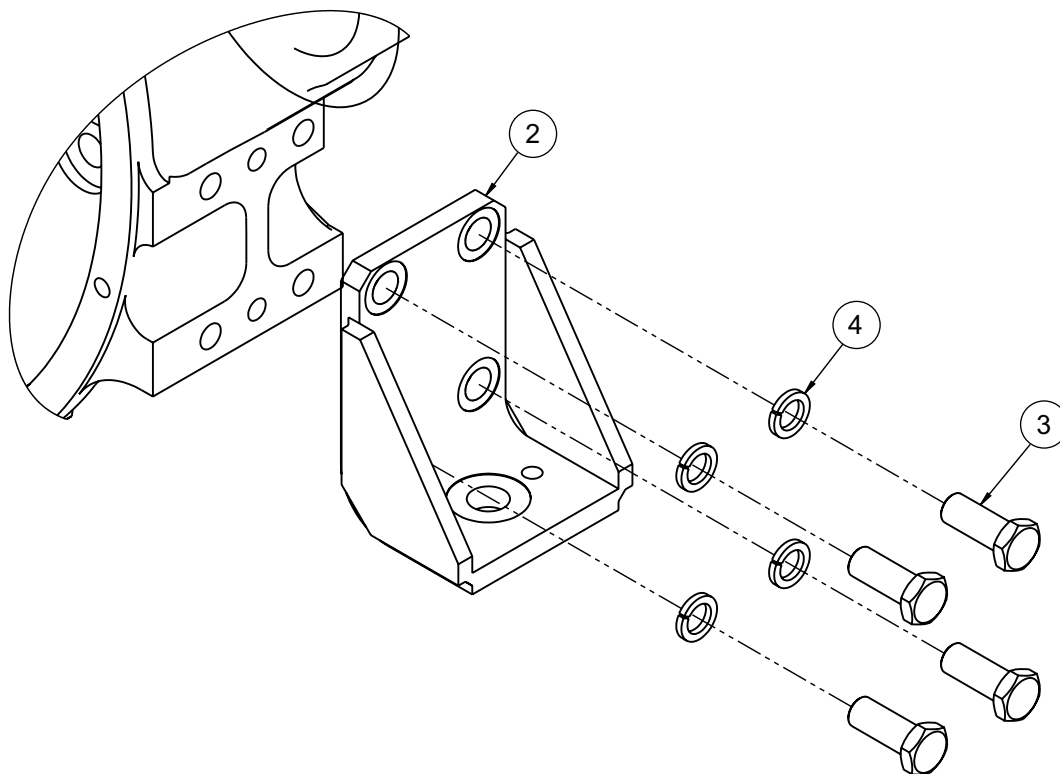
BELT GUARD - LARGE FRAME ALTERNATOR



A-1/ B-96

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-04811	1	Belt Guard, Large Frame Alternator without PTO	-
2	40-44802	1	Drive Belt Set	-
3	23-04802	1	Bracket	-
4	23-04814	1	Bracket	-
5	23-04810	1	Bracket	-
6	21-05002	3	Spacer	-
7	00-00017	3	Grommet	-
8	12-09712	3	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-70004	3	Snubbing Washer S/S	-
10	15-00705	3	Lock Washer Helical M8 S/S	-
11	01435-01075	1	Capscrew, Hex Head Flanged M10 x 1.5 x 75 mm Grade 10.9	-
12	15-09007	2	Flat Washer M12 S/S	-
13	01435-01025	1	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm Grade 10.9	-
14	01584-01008	1	Hex Nut, Flanged M10 x 1.5	-
15	01050-51230	1	Capscrew, Hex Head M12 x 1.5 x 30 mm	-

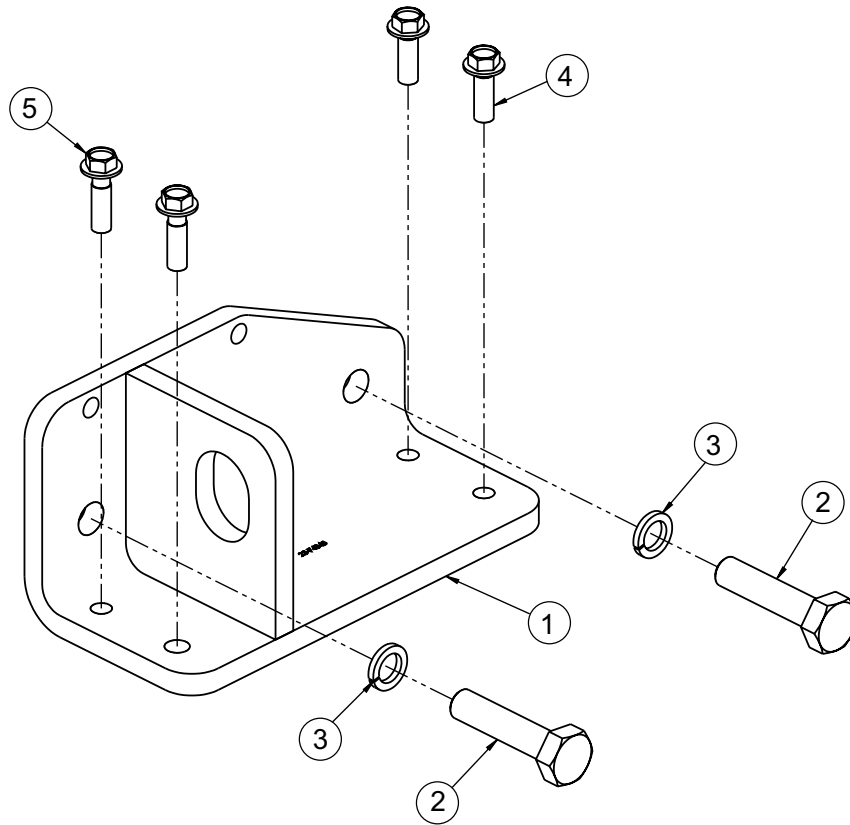
ENGINE MOUNTING



A-2319/ B-9680

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1		1	Front Mounting Bracket (See Sec. 1 "Timing Gear Assembly" detail)	-
2	23-84800	2	Rear Mounting Bracket SAE #2, Flywheel Housing	-
	23-84815	2	Rear Mounting Bracket SAE #1, Flywheel Housing	-
			SAE #2	
3	12-01503	2	Capscrew, Hex Head M14 x 2.0 x 45 mm (used with Oil Change Pump Bracket)	-
	12-04803	6	Capscrew, Hex Head M14 x 2.0 x 35 mm	-
4	15-01000	8	Lock Washer M14	-
5	12-74801	4	Jacking Screw, M12 x 1.75 x 80 mm all THD (not shown)	-
			SAE #1	
3	12-01503	2	Capscrew, Hex Head M16 x 2.0 x 50 mm (Used with Oil Change Pump Bracket)	-
	12-04803	6	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
4	15-01000	8	Lock Washer M16	-
5	12-00037	4	Capscrew, Hex Head M12 x 1.75 x 45 mm (not shown)	-

REAR LIFTING EYE



A-12334/ B-9687

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-74845	1	Lifting Eye, Rear SAE #1	-
2	12-01512	2	Capscrew, Hex Head Flanged M16 x 2 x 70 mm Grade 10.9	-
3	15-01000	2	Lock Washer, Helical M16	-
4	01435-01030	2	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm Grade 10.9	-
5	01435-01035	2	Capscrew, Hex Head Flanged M10 x 1.5 x 35 mm Grade 10.9	-



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