

# P1276

For Models: L1276, M1276, and NL1276

# PARTS CATALOG

Marine Generators | Marine Diesel Engines | Land-Based Generators



**NORTHERN LIGHTS**





— CALIFORNIA —  
Proposition 65 Warning:

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

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PART NO.: P1276 01/16



**NORTHERN LIGHTS**

# PARTS CATALOG

## for Models L1276, M1276, and NL1276

*Please read thoroughly before attempting to use this manual:*

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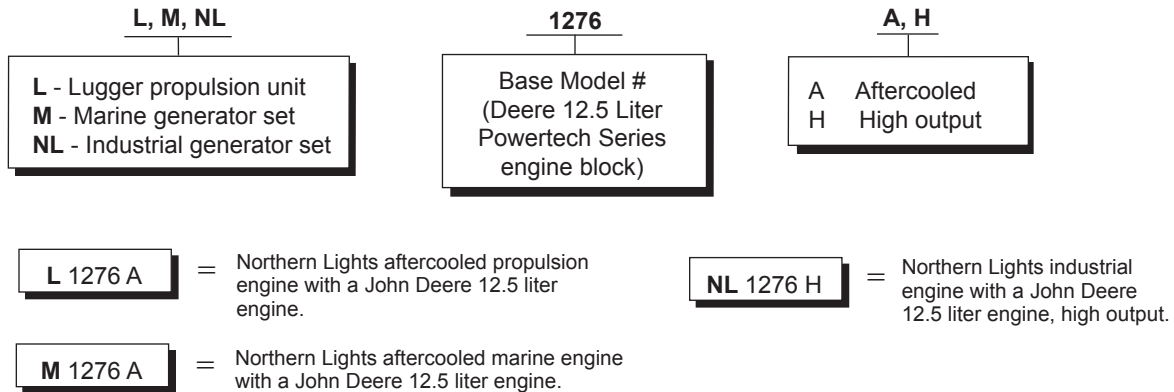
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## Model Designation

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



All model numbers used in headings will indicate a John Deere base engine. All variations requiring serial numbers for proper identification will be noted as Northern Lights or John Deere.

## Serial Numbers

### NORTHERN LIGHTS

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



*Lugger serial number*



*Generator set serial number*

## Reading a Parts Page

**IMPORTANT:**

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

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

**REFERENCES:**

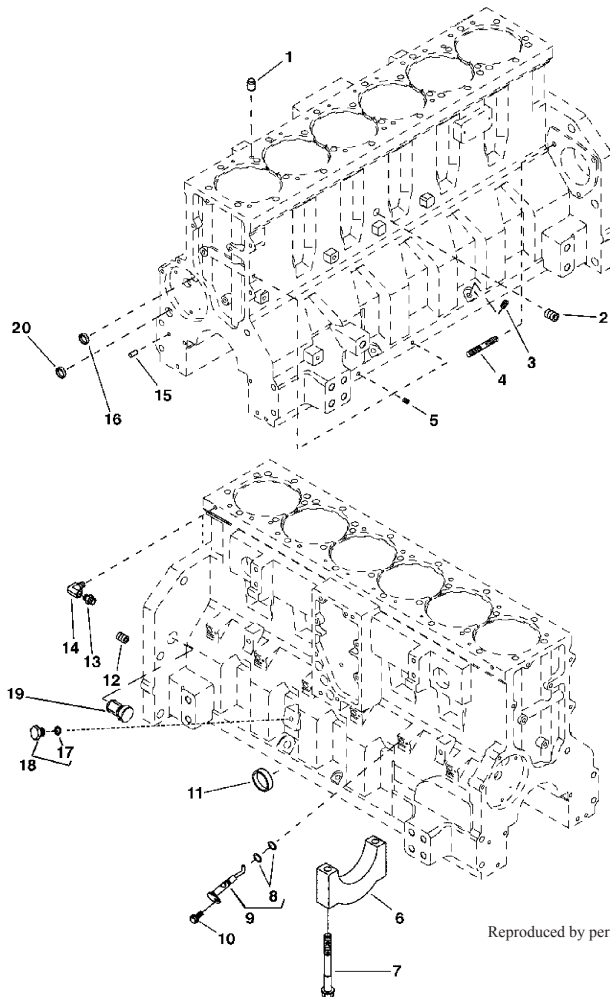
- |  |  |
|--|--|
| 1. Grouping section title.   | 7. Quantity of parts used.                       |
| 2. Model designation of equipment that uses parts listed on this page.             | 8. Description of each component part.           |
| 3. Title and description of assembly.  | 9. Serial number of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

GROUP 1 – ENGINE

**Cylinder Block**

L1276A - M1276A1 @ 50 HZ



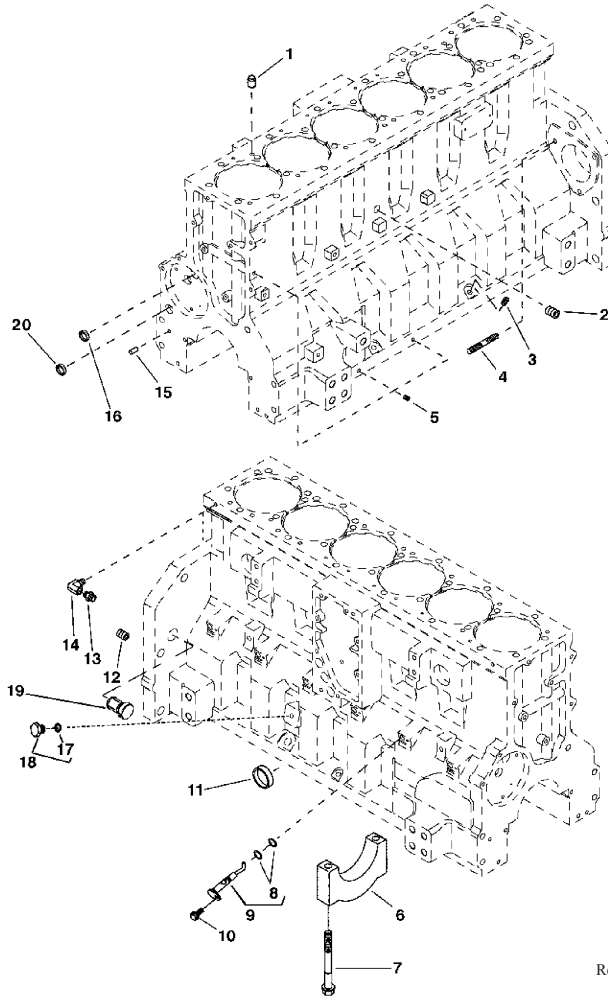
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RGP8132

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
**			Cylinder Block (Marked R116428 Or R502884) (Sub RE428460 And Applicable Damper)	-
1	R116716	2	Dowel Pin	-
2	15H685	1	Plug 1/4" NPT	-
3	42M7029	2	Stud	-
4	15H685	2	Plug 1/4" NPT	-
5	R116638	6	Main Bearing Cap	-
	R116639	1	Thrust Bearing Cap	-
6	R116640	14	Screw M16 X 150	-
7	R63548	12	O-Ring	-
8	RE503567	6	Piston Cooling Nozzle	-
9	R130091	6	Screw, Hex Head Flanged M6 x 1.0 x 12 mm (with thread locking compound)	-
10	R502753	2	Plug	-
11	51M7041	1	O-Ring	-
12	RE46684	1	Fitting Plug	-
13	R51133	1	Fitting	-
14	T11370	1	Elbow Fitting	-
15	15H690	1	Plug 3/4" NPT	-
16	R1612R	2	Dowel Pin	-
17	R116466	1	Plug	-
18	T21937	1	Plug	-

**Cylinder Block**

L1276A2 - M1276A1 @ 60 HZ - M1276A2 ALL



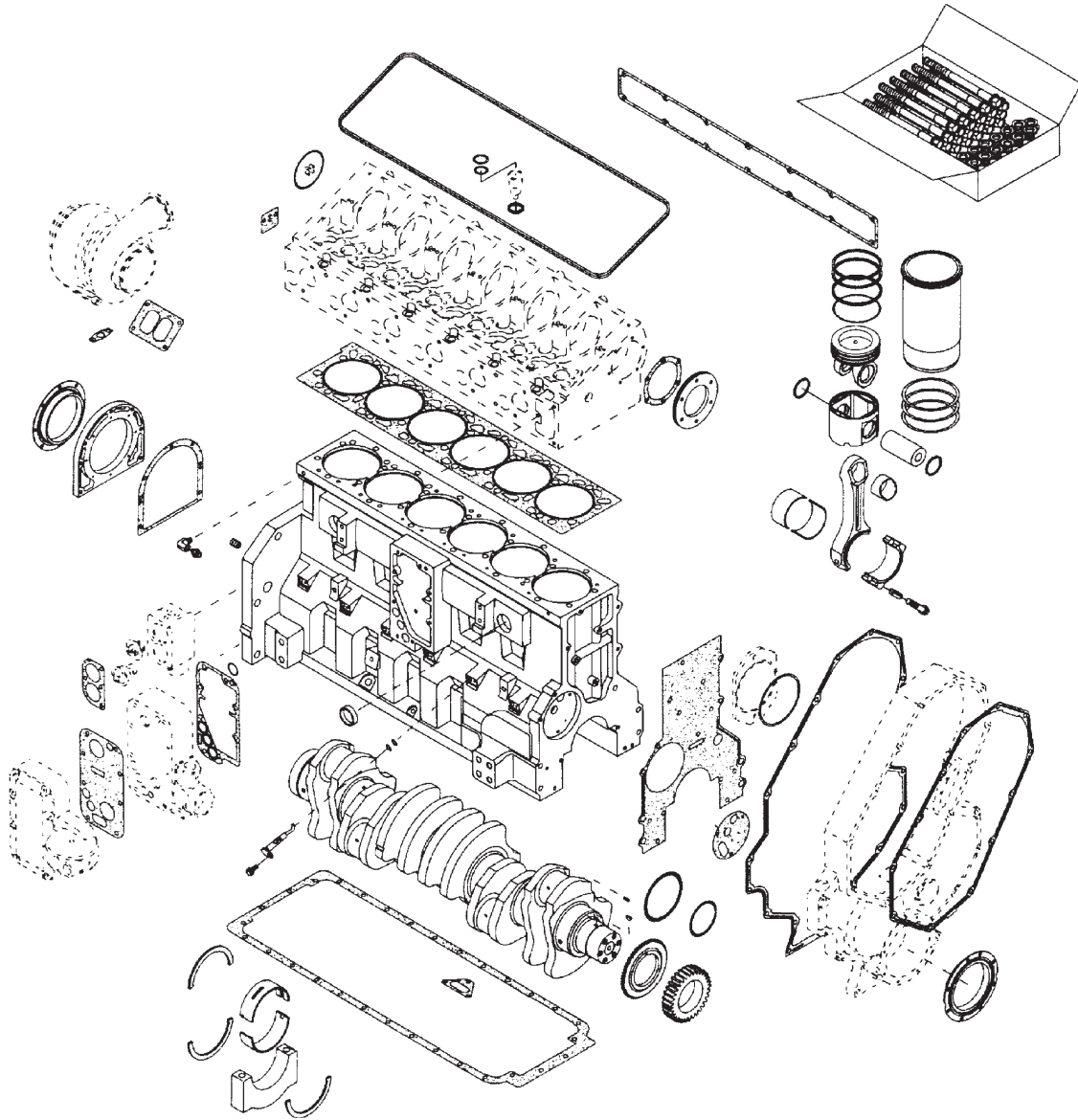
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RGP5344

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
**	RE520810	1	Cylinder Block (Marked R517076) (Contains (6) R518501, R518573 and (14) R518579)	-
1	R116716	2	Dowel Pin	-
2	15H624	1	Plug 1/2" 1/2 X 2 NPT	-
3	15H685	1	Plug 1/4" NPT	-
4	42M7029	2	Stud	-
5	R104592	1	Plug NPT	-
	15H685	1	Plug 1/4" NPT	-
	15H690	1	Plug 3/4" NPT	-
6	R518501	6	Main Bearing Cap	-
	R518573	1	Thrust Bearing Cap	-
7	R116640	14	Screw	-
8	R63548	12	O-Ring	-
9	RE503567	6	Piston Cooling Nozzle	-
10	R130091	6	Screw, Hex Head Flanged M6 x 1.0 x 12 mm (with thread locking compound)	-
11	R502753	2	Plug	-
12	15H690	1	Plug 3/4" NPT	-
13	R51133	1	Fitting	-
14	T11370	1	Elbow Fitting	-
15	R1612R	2	Dowel Pin	-
16	T21937	1	Plug	-
19	AR61533	1	Plug	-
20	R166466	1	Plug	-

GROUP 1 – ENGINE

Short Block



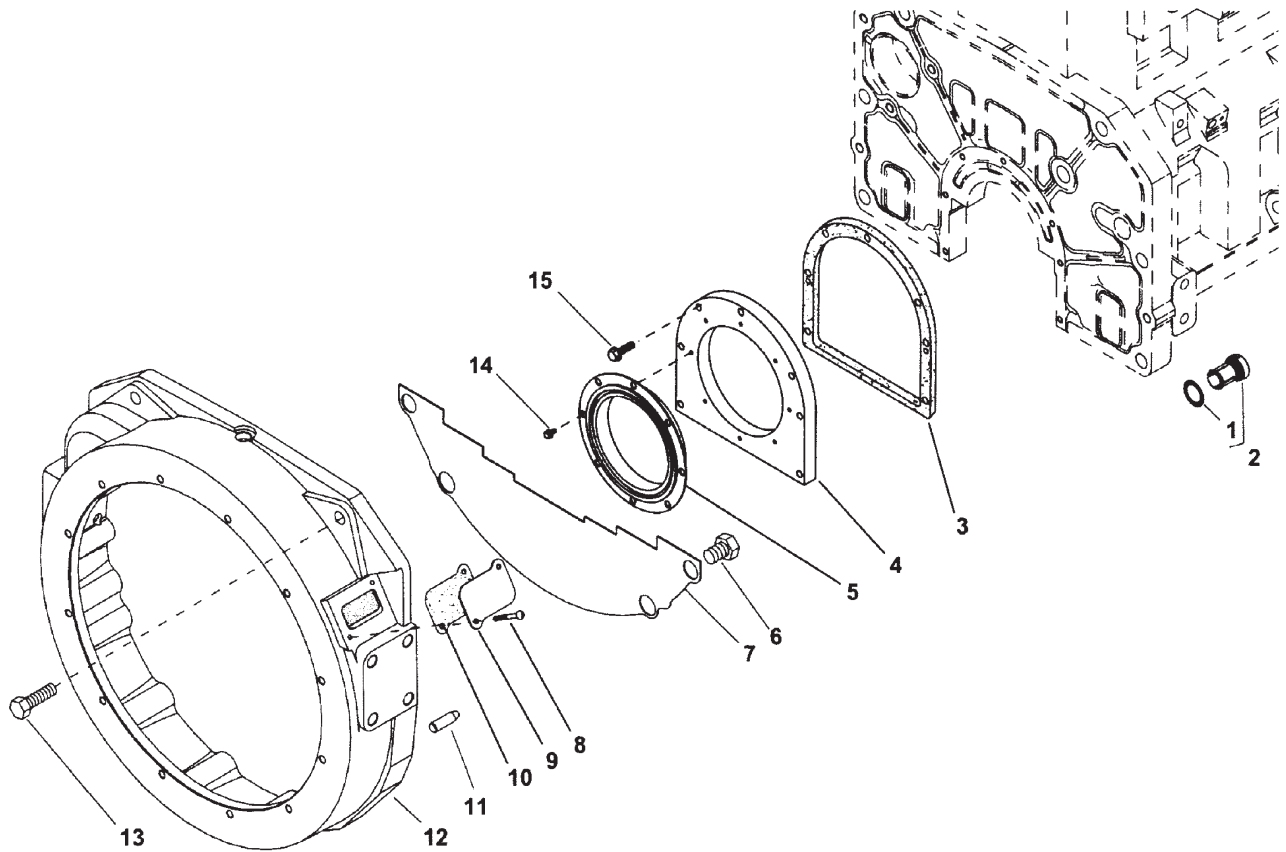
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RGP4978

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
1	RE528460	1	Short Block Assembly L1276A, M1276A1 @ 50 Hz (marked R524326, R522822, or R519559)	-
2	RE528462	1	Short Block Assembly L1276A2 all, M1276A1 @ 60 Hz, M1276A2 all 50 & 60 Hz (marked R522822 and R519559)	-



Flywheel Housing SAE #1 & SAE #2

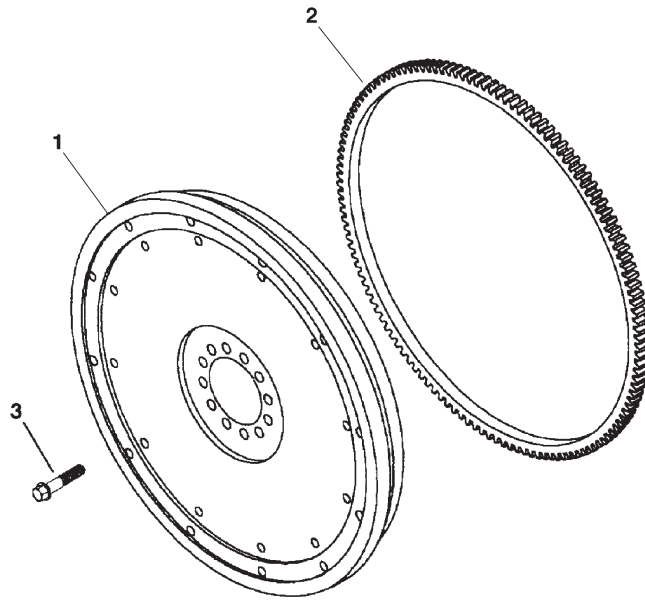


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RGP8088

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R27149	1	O-ring	-
2	AR61533	1	Plug	-
3	R35043	1	Gasket	-
4	R116338	1	Housing	-
5	RE53687	1	Seal	-
6	19H2369	4	Capscrew, 3/4" x 1"	-
7	R133483	1	Cover	-
8	21H1318	2	Machine Screw, #12 x 1/2"	-
9	R31493	1	Cover	-
10	R67989	1	Gasket	-
11	H79910	2	Dowel Pin, 9/16" x 1.752"	-
12	R121689	1	Housing (SAE #1)	-
	R121696	1	Housing (SAE #2)	-
13	19H1862	6	Capscrew, 3/4" x 2 -1/2"	-
14	R130091	8	Screw, M6 x 12	-
15	19M7868	7	Screw, M8 x 30	-

**Flywheel, SAE #11-1/2 & SAE #14**

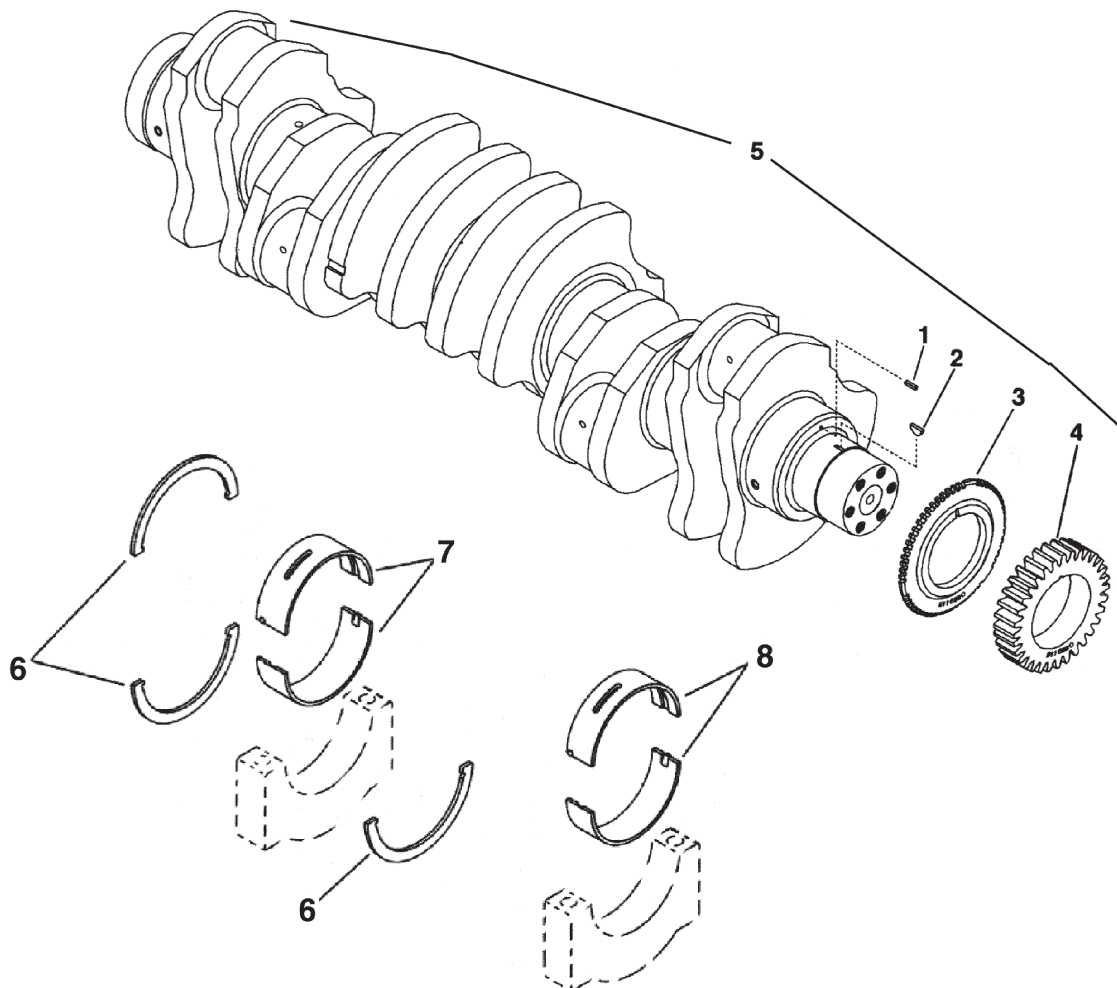


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RGP4667

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE68953	1	Flywheel Assembly SAE #11-1/2 (marked R133951- includes key #2)	-
	RE53698	1	Flywheel Assembly SAE #14 (marked R116828 - includes key #2)	-
2	AR103044	1	Ring Gear (147 Teeth - #11-1/2 Flywheel)	-
	R76000	1	Ring Gear (147 Teeth - #14 Flywheel)	-
3	R135049	12	Capscrew (SAE #11-1/2 Flywheel)	-
	R116911	12	Capscrew (SAE #14 Flywheel)	-

**Crankshaft**



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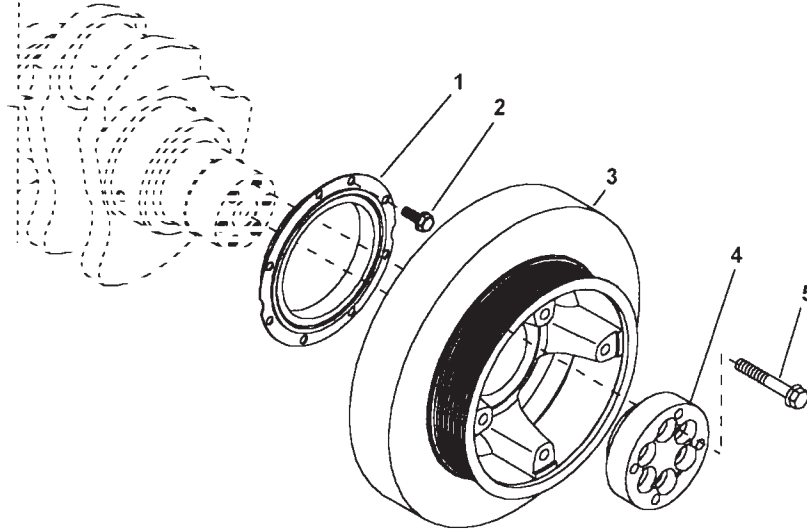
RGP4662 & RGP4715

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	34M7129	1	Spring Pin, 3 x 16 mm	-
2	26M4224	1	Shaft Key	-
3	R122377	1	Wheel Speed Sensor	-
4	R116330	1	Gear	-
5	RE51761	1	Crankshaft (marked R116068)	-
6	RE63906	1	Thrust Washer (Standard pkg (3) R116299)	-
	RE68659	1	Thrust Washer (.18 mm [.007"] OS Flange Pkg (2) R133599 & R116299)	-
7	RE63905	1	Thrust Bearing (Standard pkg 129751 & R129752)	-
	RE68663	1	Thrust Bearing (.25 mm [.010"] US pkg R133606 & R133607)	-
	RE68664	1	Thrust Bearing (.50 mm [.020"] US pkg R133608 & R133609)	-
8	RE63903	6	Bearing (Standard pkg R129749 & R129750)	-
	RE68655	6	Bearing (.25 mm [.010"] US pkg R133600 & R133601)	-
	RE68656	6	Bearing (.50 mm [.020"] US pkg R133602 & R133603)	-

**GROUP 1 – ENGINE**

**Crankshaft Pulley**

L1276A & A2 Continuous Duty 340 Hp @1800 RPM  
 L1276A2 Medium Duty 425 Hp @2100 RPM  
 M1276A2 Generator 230 kW@1500 RPM  
 M1276A1 200 kW@1500 RPM



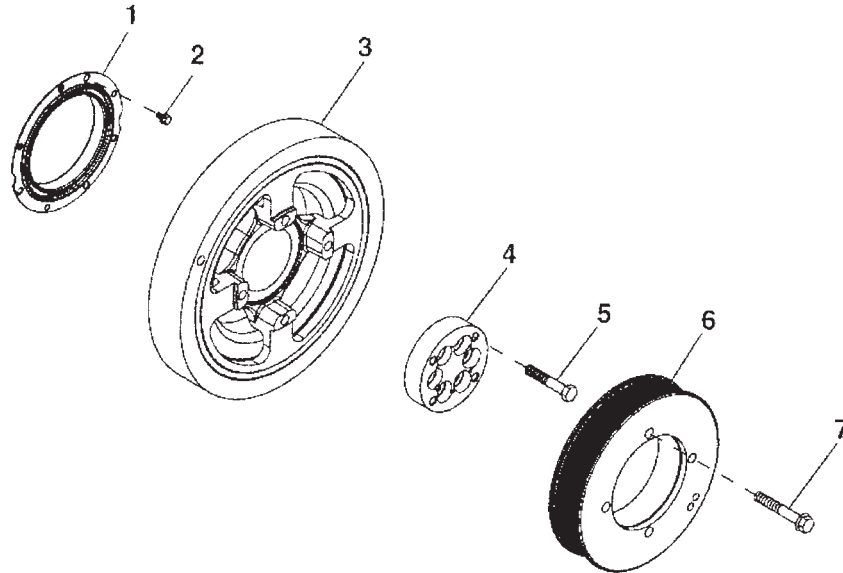
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RGP7108

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE54073	1	Seal (Front)	-
2	R130091	8	Screw, M6 x 12 mm	-
3	RE523266	1	Torsional Damper & Pulley (formerly #RE505520)	from S/N 053080 -
	R519753	1	Washer (use with RE523266 Damper & Pulley)	from S/N 053080 -
4	R133882	1	Hub	-
5	19M8088	6	Capscrew, M12 x 75	-

**Crankshaft Pulley**

L1276A2 High Output 525 Hp @2100 RPM



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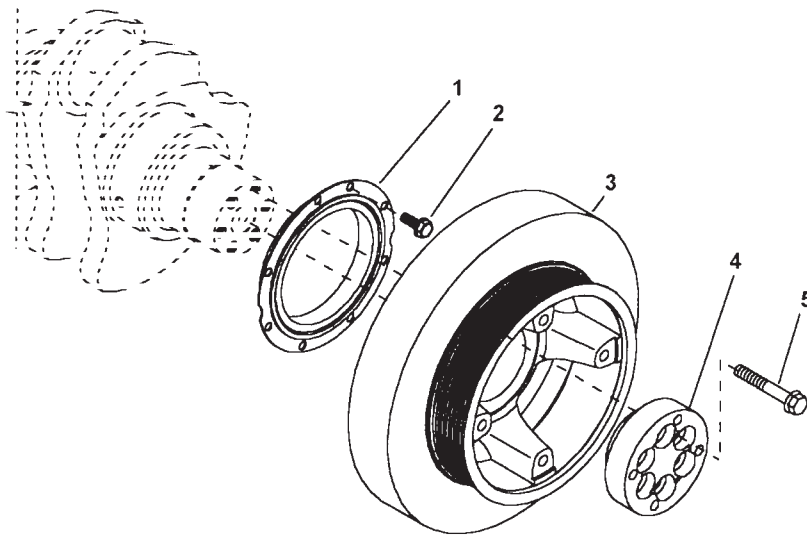
RGP9765

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE54073	1	Seal (Front)	-
2	R130091	8	Screw, M6 x 12 mm	-
3	RE523269	1	Torsional Damper *	-
4	R519753	1	Hub*	-
5	19M8088	6	Cap screw, M12 x 1.75 X 75 X 75 mm Grade 10.9	-
6	R516399	1	Pulley	-
7	19M7818	4	Screw	-
			* Supercedes Damper RE516281 & Hub R133882	

GROUP 1 – ENGINE

**Crankshaft Pulley**

M1276A2 280 kW @1800 RPM  
 M1276A1 235 kW @ 1800 RPM



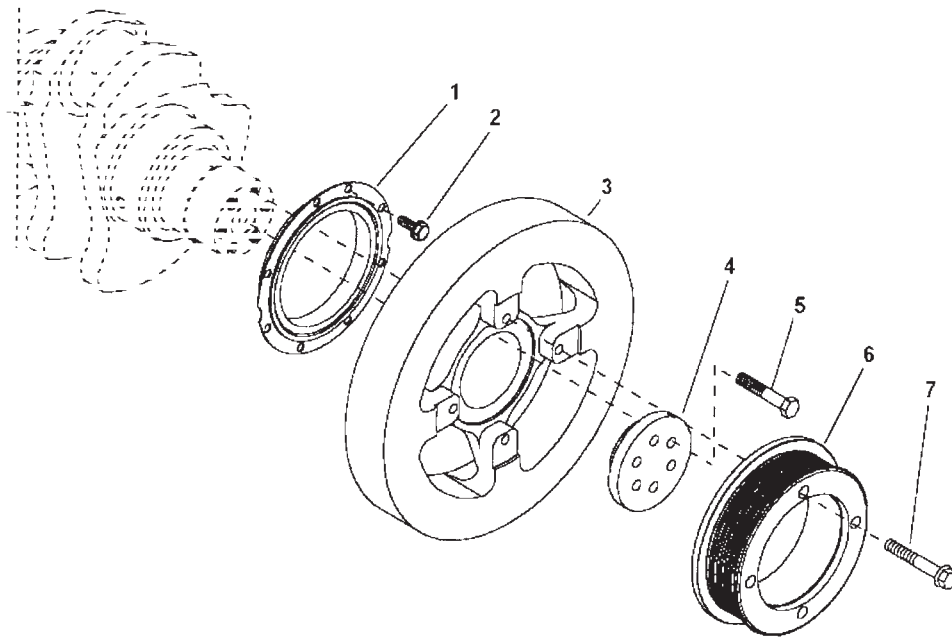
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RGF7108

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE54073	1	Seal (Front)	-
2	R130091	8	Screw, M6 x 12 mm	-
3	RE507214	1	Torsional Damper with Pulley (formerly #RE50507)	up to S/N -053079
	RE523268	1	Torsional Damper with Pulley	from S/N 053080 -
	R519753	1	Spacer (use with RE523268 - not shown)	-
4	R133882	1	Hub	-
5	19M8088	6	Capscrew, M12 x 75	-

**Crankshaft Pulley**

NL1276H2 Power Unit 450 Hp @1800 RPM



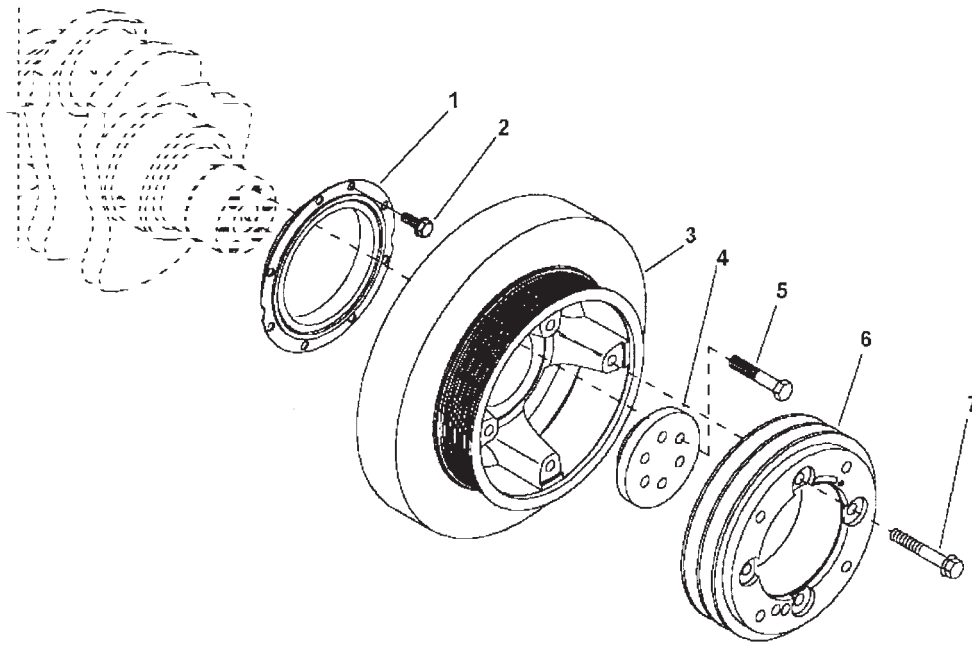
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RGP7106

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE54073	1	Seal (Front)	-
2	R130091	8	Screw, M6 x 12 mm	-
3	RE65565	1	Torsional Damper	-
4	R501561	1	Hub	-
5	19M7818	6	Capscrew, M12 x 80	-
6	R133879	1	Pulley	-
7	19M7818	4	Screw, M12 x 80	-

**Crankshaft Pulley**

NL1276H1 285 Hp @1800 RPM



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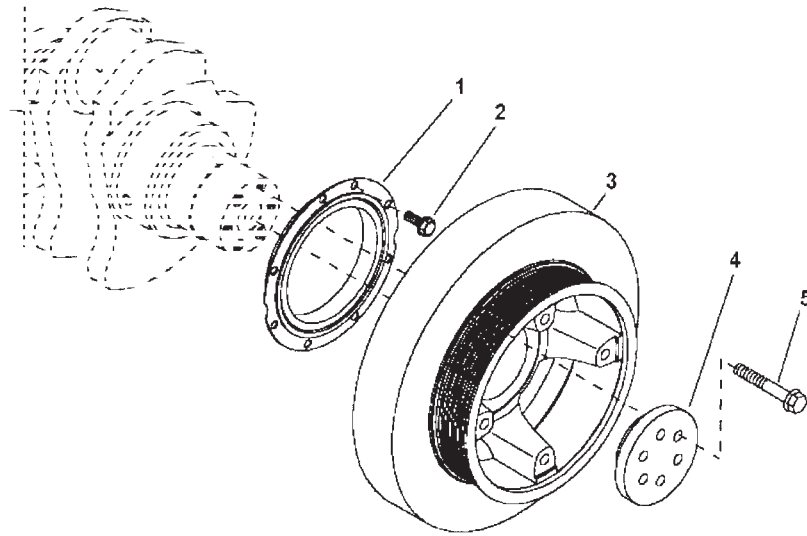
RGP7107

KEY	PART NUMBER	QTY	DESCRIPTION	Deere S/N
1	RE54073	1	Seal (Front)	-
2	R130091	8	Screw, M6 x 12 mm	-
3	RE505507	1	Torsional Damper	up to - 031576
	RE507214	1	Torsional Damper with Pulley	from 031577 -
4	R501561	1	Hub	-
5	19M7818	6	Capscrew, M12 x 80	-
6	R133880	1	Pulley	-
7	19M7818	4	Screw	-



**Crankshaft Pulley**

NL1276H3 330 kW @1800 RPM



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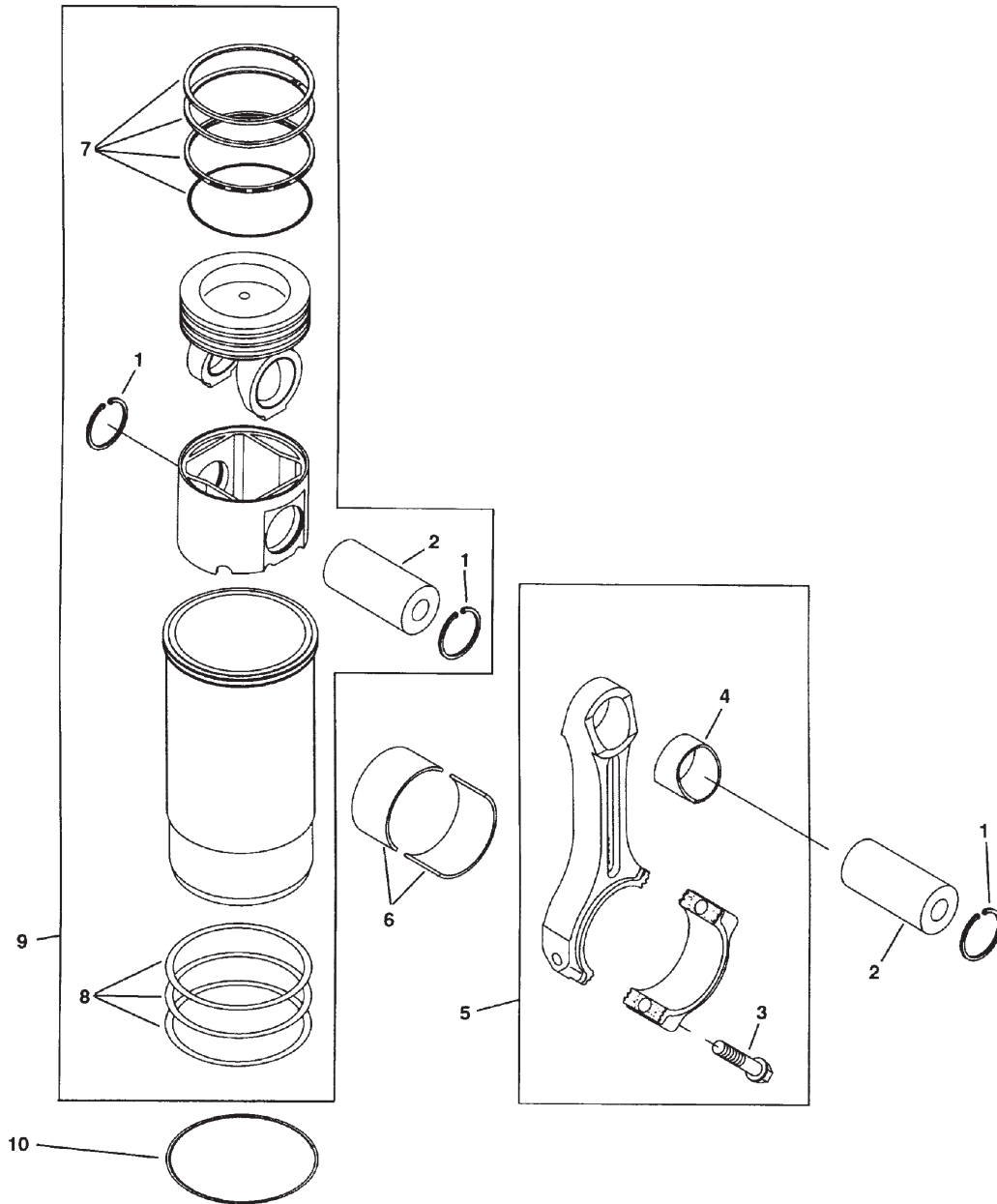
RGP7113

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE54073	1	Seal (Front)	-
2	R130091	8	Screw, M6 x 12 mm	-
3	RE505507	1	Torsional Damper	up to - 031576
	RE507214	1	Torsional Damper with Pulley	from 031577 -
4	R501561	1	Hub	-
5	19M7818	6	Capscrew, M12 x 80	-

GROUP 1 – ENGINE

# Cylinder Liner Assembly and Connecting Rod

L1276A - All, M1276A All, M1276A1 All



## Cylinder Liner Assembly and Connecting Rod

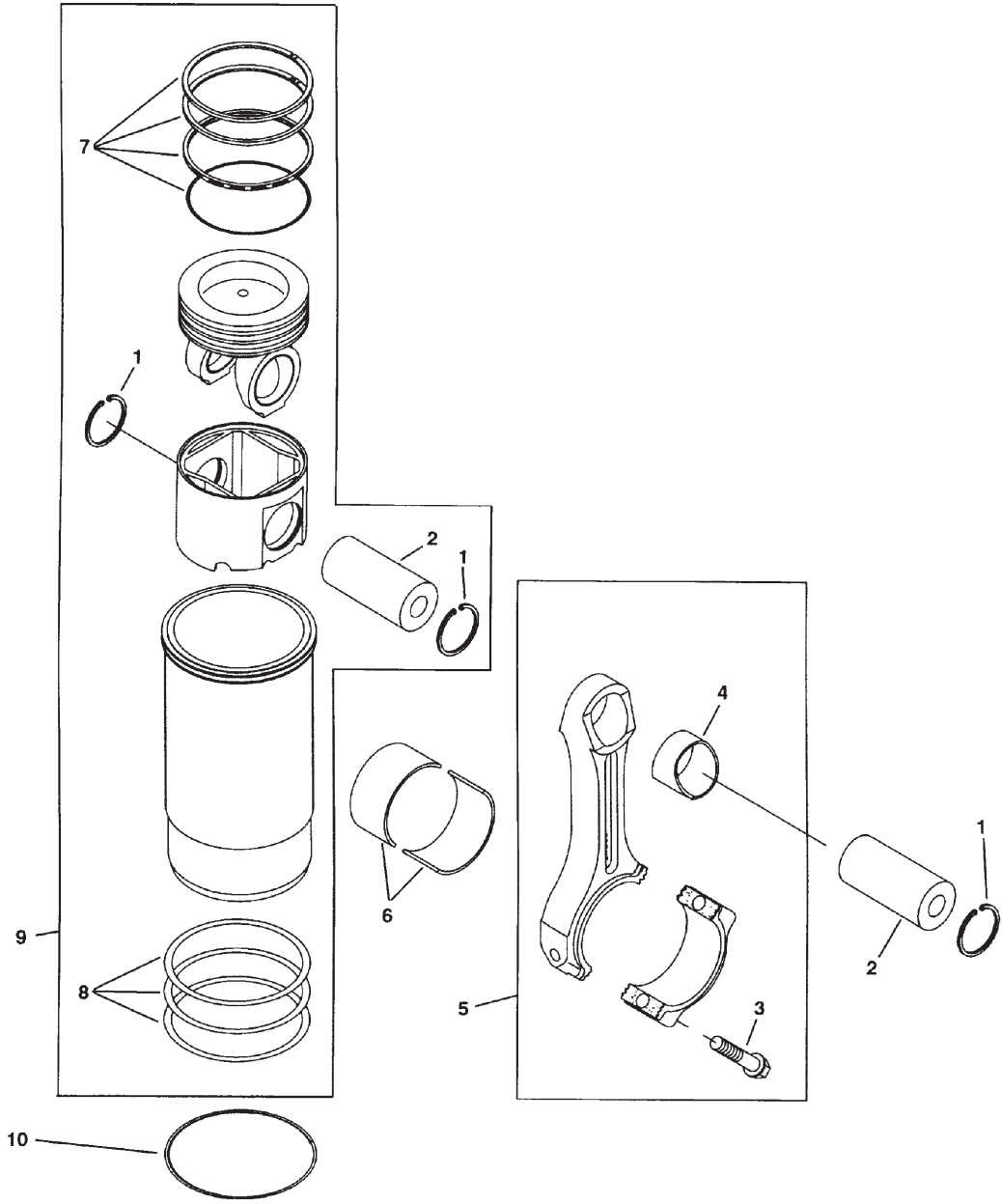
L1276A - All, M1276A All, M1276A1 All

KEY	PART NUMBER	QTY	DESCRIPTION	Deere S/N
1	N51168	12	Snap Ring	-
2	R64451	6	Piston Pin	-
3	R66453	12	Capscrew (use with Connecting Rod RE57641)	up to xxxx-010513
	R501380	12	Capscrew (use with Connecting Rod marked R519614)	from xxxx-010514
4	R69045	6	Bushing (marked R63960)	-
5	RE57641	6	Connecting Rod (marked R121174, substitute SE500502)	up to xxxx-010513
	SE500502	6	Connecting Rod (remanufactured for RE57641)	up to xxxx-010513
	RE522978	6	Connecting Rod (marked R519614 or R501566, 2 notches, replaces RE502314)	xxxx-101514 to xxxx-057910
	RE532355	6	Connecting Rod (marked R519614 or R526175, 1 notch)	from xxxx-057911
	SE501066	6	Connecting Rod (remanufactured for RE502314)	
6	RE63811	**	Bearing (Std., use with Rods marked R524613 or R501566, 2 notches)	xxxx-010514 to xxxx-057910
	RE68703	**	Bearing (.25 mm [.010"] US, use with Rods marked R524613 or R501566, 2 notches)	xxxx- 010514 to xxxx-057910
	RE68704	**	Bearing (.50 mm [.020"] US, use with Rods marked R524613 or R501566, 2 notches)	xxxx- 010514 to xxxx-057910
	RE530787	**	Bearing Kit (Std., use with Rods marked R519614 or R526175, one notch)	from xxxx-057911
	RE531768	**	Bearing Kit (.25 mm [.010"] US, 1 notch)	from xxxx-057911
	RE531769	**	Bearing Kit (.50 mm [.020"] US, 1 notch)	from xxxx-057911
	RE534626	**	Bearing Kit (Std., use with Rods marked R121174)	up to xxxx-010513
	RE534627	**	Bearing Kit (.25 mm [.010"] US, use with Rods marked R121174)	up to xxxx-010513
	RE534628	**	Bearing Kit (.50 mm [.020"] US, use with Rods marked R121174)	up to xxxx-010513
7	RE504630	6	Piston Ring Kit	from xxxx-010909
8	AR72351	6	O-ring Kit	-
9	RE505213	6	Piston Liner Kit (marked RE503969 or RE524326)	from xxxx-010909
10	R81276	**	Shim (.05 mm [.002"] )	-
	R81277	**	Shim (.10 mm [.004"] )	-
11	R48317	12	Sleeve (use with Rod RE57641, marked R121174)	-
			**As required	

GROUP 1 – ENGINE

# Cylinder Liner Assembly and Connecting Rod

L1276A2 @ 340 Hp, L1276A2 @ 425 Hp, M1276A2 All, NL1276H1/ H2/ H3



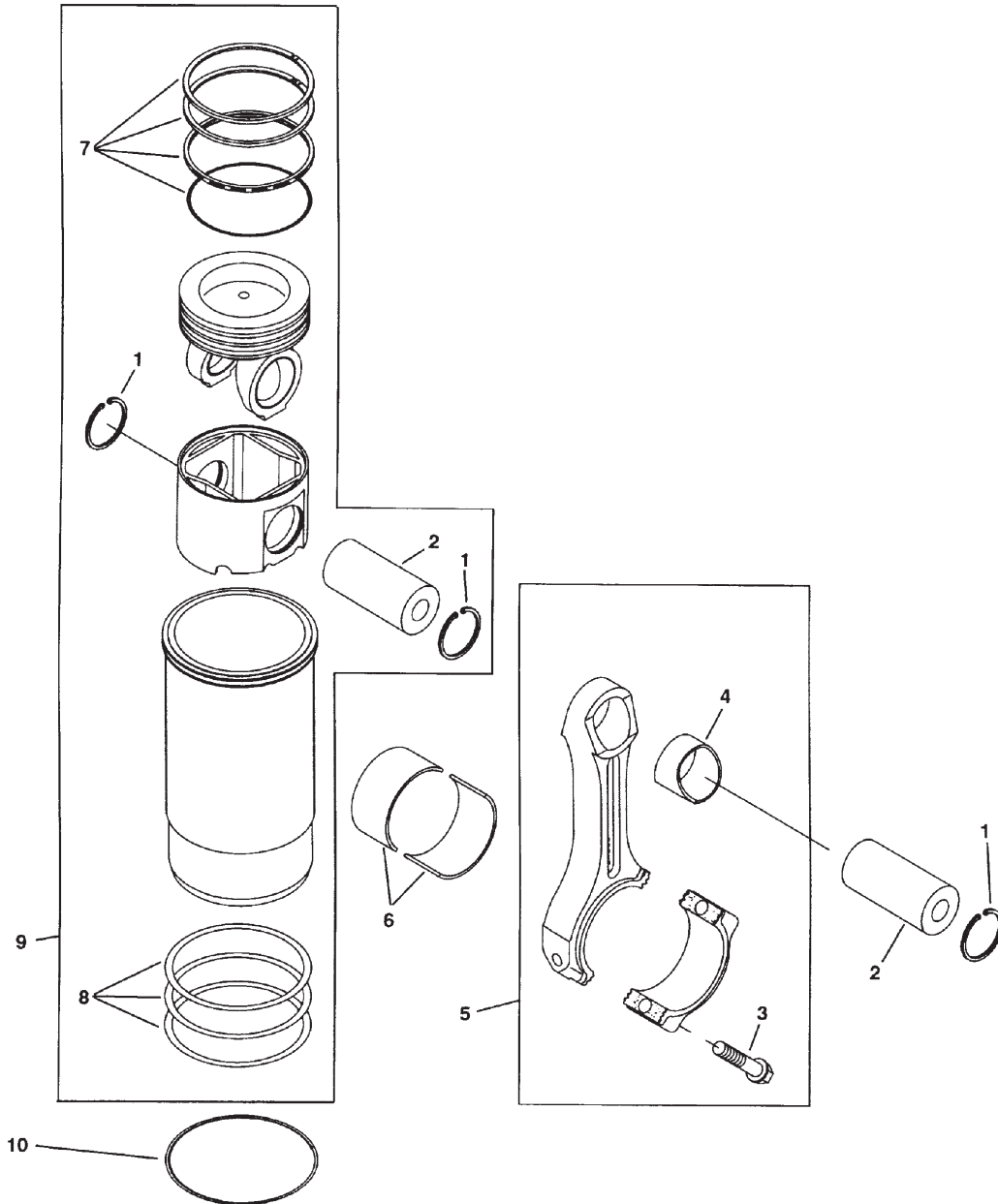
### Cylinder Liner Assembly and Connecting Rod

L1276A2 @ 340 Hp, L1276A2 @ 425 Hp, M1276A2 All, NL1276H1/ H2/ H3

KEY	PART NUMBER	QTY	DESCRIPTION	Deere S/N
1	N51168	12	Snap Ring	-
2	R64451	6	Piston Pin	-
3	R501380	12	Capscrew, 12 PT. 5/8-18 x 2-9/16" (Special)	-
4	R69045	6	Bushing (marked R63960)	-
5	RE522978	6	Connecting Rod (marked R519614 or R501566, 2 notches)	up to xxxx-057910
	RE532355	6	Connecting Rod (marked R519614 or R526175, 1 notch)	from xxxx-057911
	SE501066	6	Connecting Rod (remanufactured for RE502314)	
6	RE63811	**	Bearing (Std., use with Rods marked R501566 or R519614, 2 notches)	up to xxxx-057910
	RE68703	**	Bearing (.25 mm [.010"] US, use with Rods marked R501566 or R519614, 2 notches)	up to xxxx-057910
	RE68704	**	Bearing (.50 mm [.020"] US, use with Rods marked R501566 or R519614, 2 notches)	up to xxxx-057910
	RE530787	**	Bearing Kit (Std., use with Rods marked R519614 or R526175, one notch)	from xxxx-057911
	RE531768	**	Bearing Kit (.25 mm [.010"] US, use with Rods marked R519614 or R526175, 1 notch)	from xxxx-057911
	RE531769	**	Bearing Kit (.50 mm [.020"] US, use with Rods marked R519614 or R526175, 1 notch)	from xxxx-057911
7	RE515941	6	Piston Ring Kit	from xxxx-030000
8	AR72351	6	O-ring Kit	-
9	RE519111	6	Piston Liner Kit (marked RE505901, RE518748, or RE524324) (former #RE506961)	from xxxx-030000
10	R81276	**	Shim (.05 mm [.002"])	-
	R81277	**	Shim (.10 mm [.004"])	-
			**As required	

# Cylinder Liner Assembly and Connecting Rod

L1276A2 525 Hp @ 2100 RPM



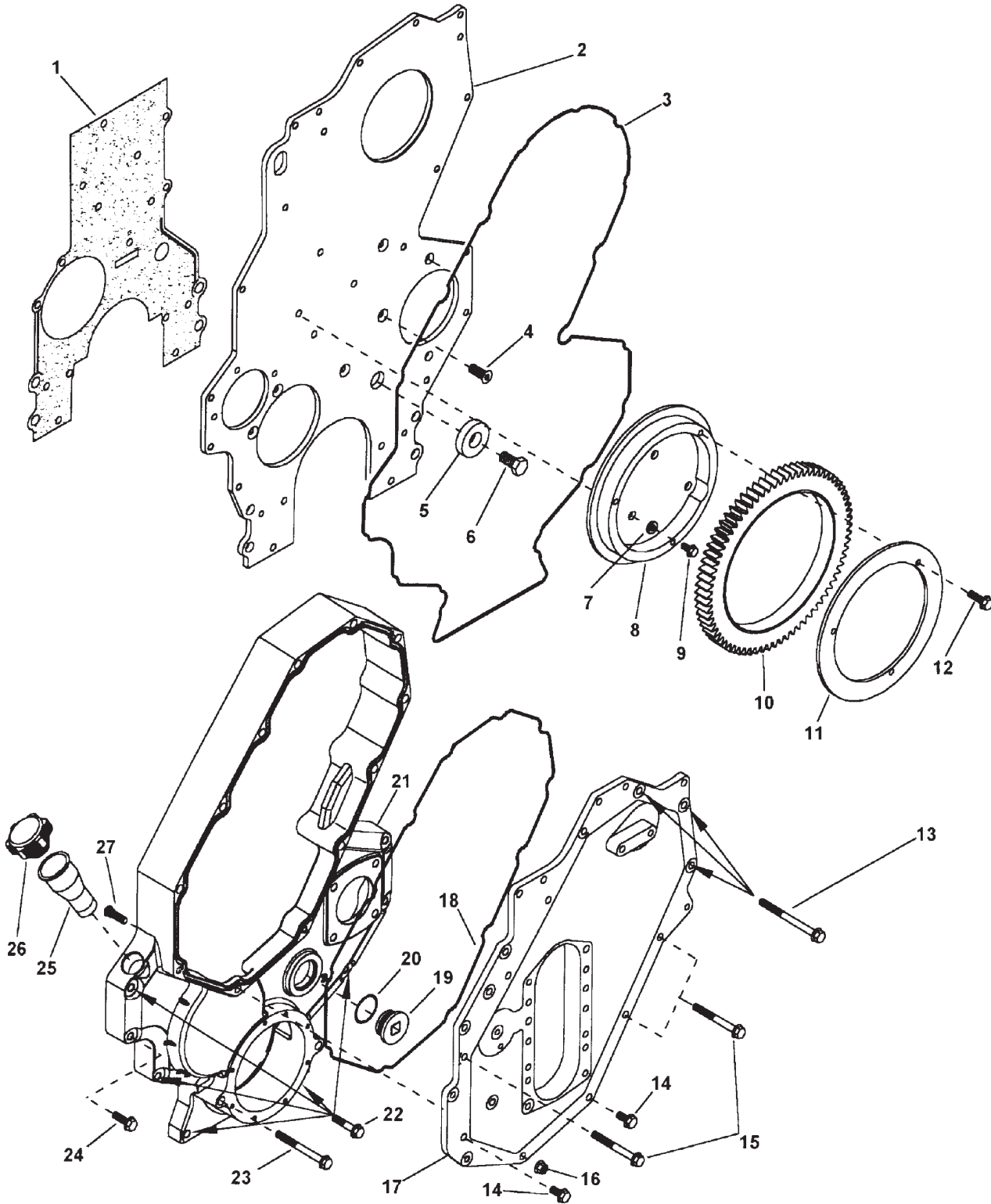
## Cylinder Liner Assembly and Connecting Rod

L1276A2 525 Hp @ 2100 RPM

KEY	PART NUMBER	QTY	DESCRIPTION	Deere S/N
1	N51168	12	Snap Ring	-
2	R64451	6	Piston Pin	-
3	R501380	12	Capscrew, 12 Pt 5/18-18 x 2-9/16" (Special)	-
4	R69045	6	Bushing (marked R63960)	-
5	RE522978	6	Connecting Rod (marked R501566 or R519614, two notches)	up to xxxx-057910
	RE532355	6	Connecting Rod (marked R519614 or R526175, one notch)	from xxxx-057911
	SE501066	6	Connecting Rod (remanufactured for RE502314)	-
6	RE63811	**	Bearing (Std., use with Rods marked R501566 or R519614, two notches)	up to xxxx-057910
	RE68703	**	Bearing (.25 mm [.010"] US, use with Rods marked R501566 or R519614, two notches)	up to xxxx-057910
	RE68704	**	Bearing (.50 mm [.020"] US, use with Rods marked R501566 or R519614, two notches)	up to xxxx-057910
	RE530787	**	Bearing Kit (Std., use with Rods marked R519614 or R526175, one notch)	from xxxx-057911
	RE531768	**	Bearing Kit (.25 mm [.010"] US, use with Rods marked R519614 or R526175, one notch)	from xxxx-057911
	RE531769	**	Bearing Kit (.50 mm [.020"] US, use with Rods marked R519614 or R526175, one notch)	from xxxx-057911
7	RE515941	1	Piston Ring Kit	-
8	AR72351	6	O-ring Kit	-
9	RE515942	6	Piston Liner Kit (marked RE515356, RE517209, or RE524325)	-
10	R81276	**	Shim (.05 mm [.002"] )	-
	R81277	**	Shim (.10 mm [.004"] )	-
			**As required	

# Timing Gear Cover and Front Plate

L1276A & L- M1276A1, A2, A3





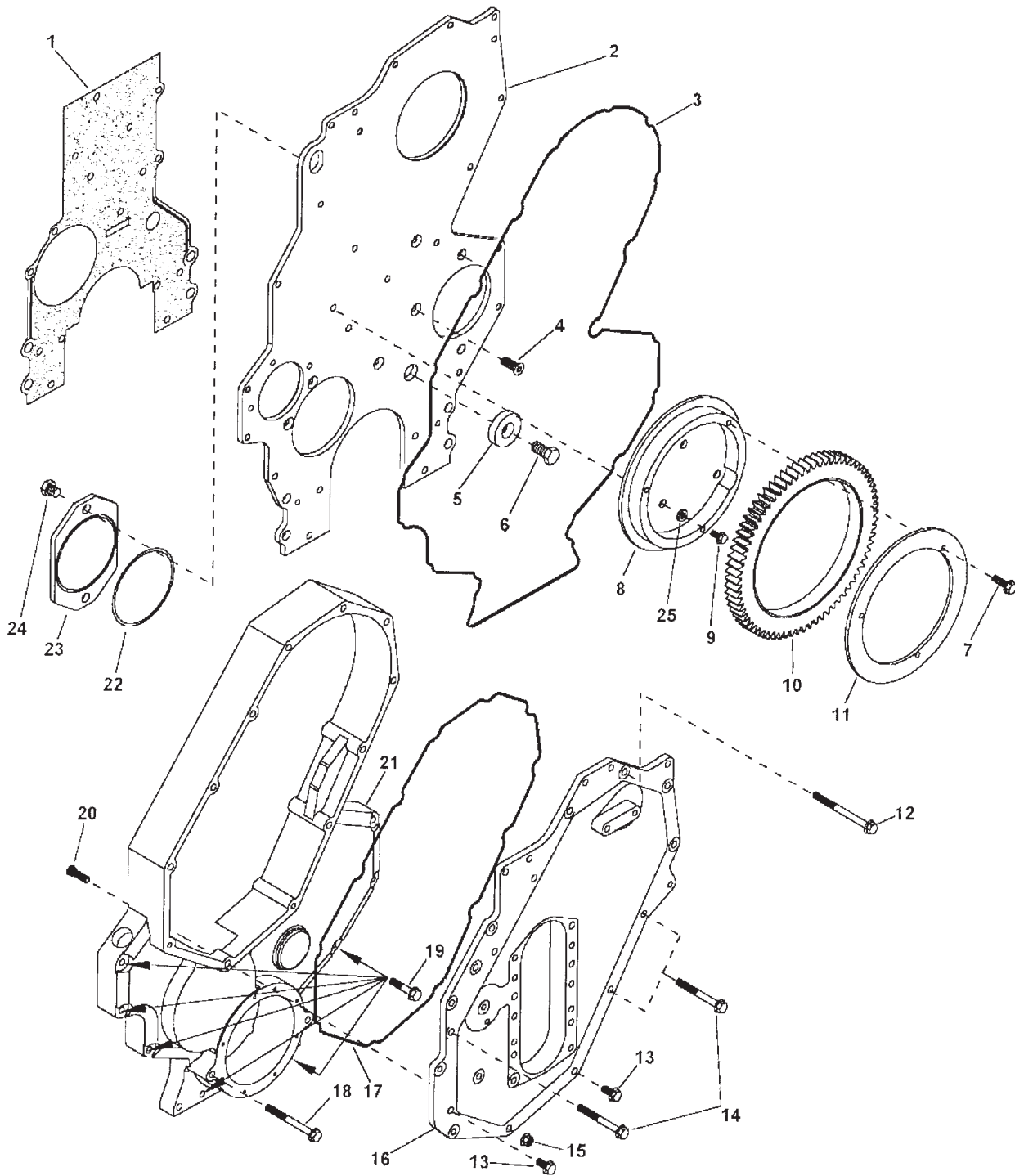
## Timing Gear Cover and Front Plate

L1276A &amp; L- M1276A1, A2, A3

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R500212	1	Gasket	-
	N102039	4	Cap	-
2	R501741	1	Plate (marked R128730)	-
3	R502026	1	V-ring Seal, M10 x 25	-
4	19M8551	5	Screw, M10 x 25 mm	-
5	R26333	1	Washer	-
6	19M7488	1	Capscrew, M16 x 40 mm	-
7	R43696	3	Washer	-
8	R119157	1	Cover	-
9	19M8738	3	Capscrew	-
10	RE53911	3	Gear, Idler	-
11	R501309	1	Plate	-
12	19M7867	1	Screw	-
13	19M7836	2	Screw, M10 x 110 mm	-
14	19M7786	2	Screw, M10 x 30 mm	-
15	19M7812	6	Screw	-
16	14M7296	1	Flange Nut, M10	-
17	R129809	1	Cover, Camshaft	-
18	R502441	1	V-ring Seal	-
19	R131660	1	Drain Plug	-
20	T74492	1	O-ring	-
21	R502530	1	Cover (replaced by R506150 & 2 ea. 19M8528)	-
	R506150	1	Cover (supercedes R502530)	-
22	19M8528	7	Screw, M10 x 55	-
23	19M7836	2	Screw, M10 x 110 (use with R502530)	-
	19M8528	2	Screw, M10 x 55 (use with R506150)	-
24	19M8114	1	Screw, M10 x 70	-
25	R120801	1	Dipstick Tube	-
26	RE500250	1	Filler Cap	-
27	R119159	1	Bolt	-

# Timing Gear Cover and Front Plate

NL1276H1, H2, H3



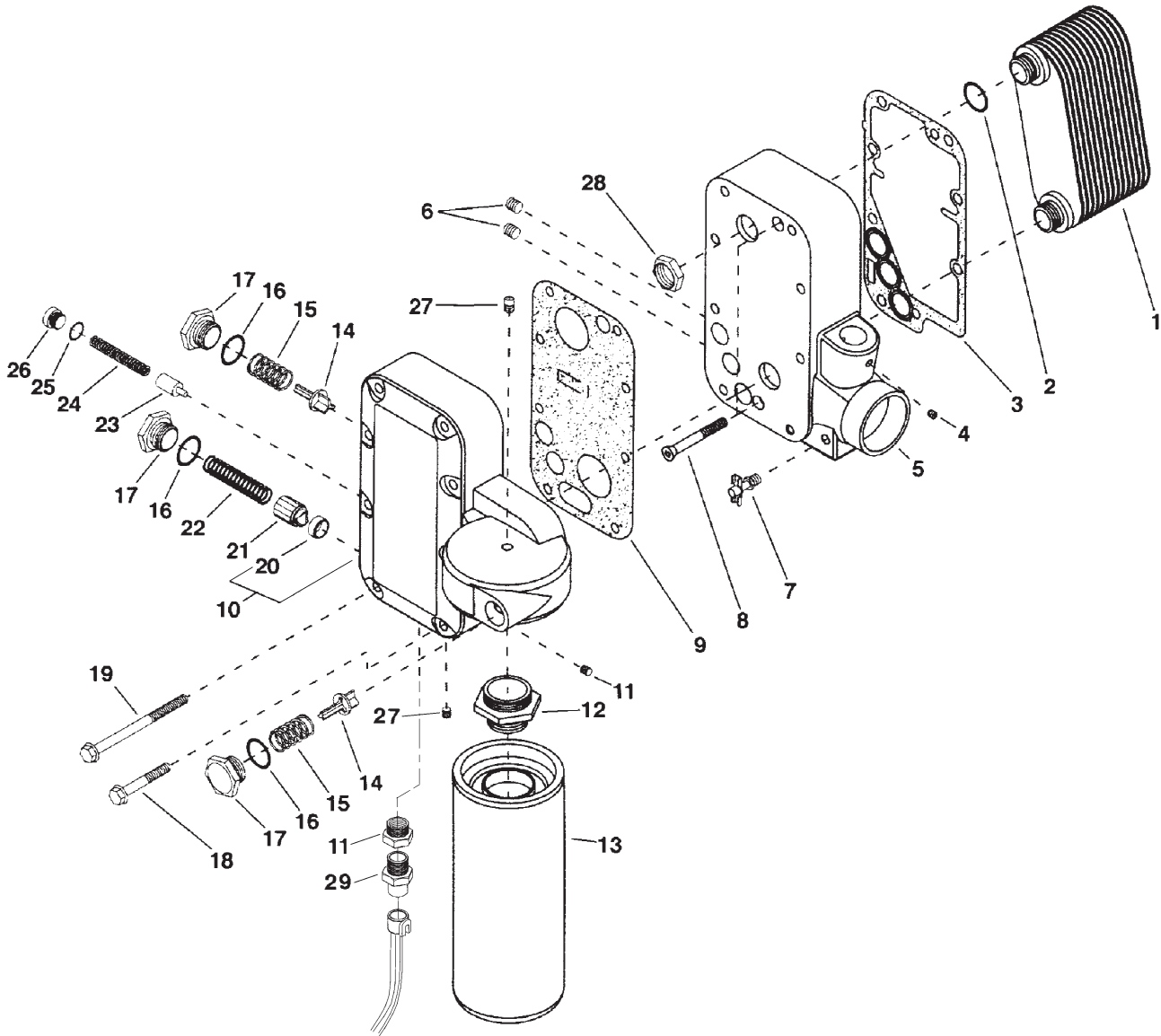
## Timing Gear Cover and Front Plate

NL1276H1, H2, H3

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
1	R500212	1	Gasket	-
	N102039	4	Cap	-
2	R501740	1	Plate (marked R500117)	-
	N102039	1	Plug	-
3	R502026	1	V-ring Seal, M10 x 25	-
4	19M8551	5	Screw, M10 x 25 mm	-
5	R26333	1	Washer	-
6	19M7488	1	Capscrew, M16 x 40 mm	-
7	19M7867	3	Screw, M8 x 25 mm	-
8	R119157	1	Cover, M10 x 45 mm	-
9	19M8738	3	Capscrew	-
10	RE53911	3	Gear, Idler	-
11	R501309	1	Plate	-
12	19M7836	1	Screw, M10 x 110 mm	-
13	19M7786	2	Screw, M10 x 30 mm	-
14	19M7812	6	Screw, M10 x 100 mm	-
15	14M7296	1	Flange Nut, M10	-
16	R129809	1	Cover, Camshaft	-
17	R502441	1	V-ring Seal	-
18	19M7836	2	Screw, M10 x 110 mm (use with cover #R502470)	up to - 033732
	19M8528	2	Screw, M10 x 55 mm (use with cover #R506149)	from 033733 -
19	19M8528	7	Screw, M10 x 55 mm	-
	19M8114	1	Screw	-
20	R119159	1	Bolt	-
21	R502470	1	Cover (replaced by R506149 & 2 ea. 19M8528)	up to - 033732
	R506149	1	Cover	from 033733 -
22	T70176	1	O-ring	-
23	R126926	1	Camshaft Cover	-
24	R136091	2	Screw	-
25	R43696	3	Washer	-

# Oil Filter and Cooler

L1276A-A2, M1276A1, A2, A3, NL1276 All



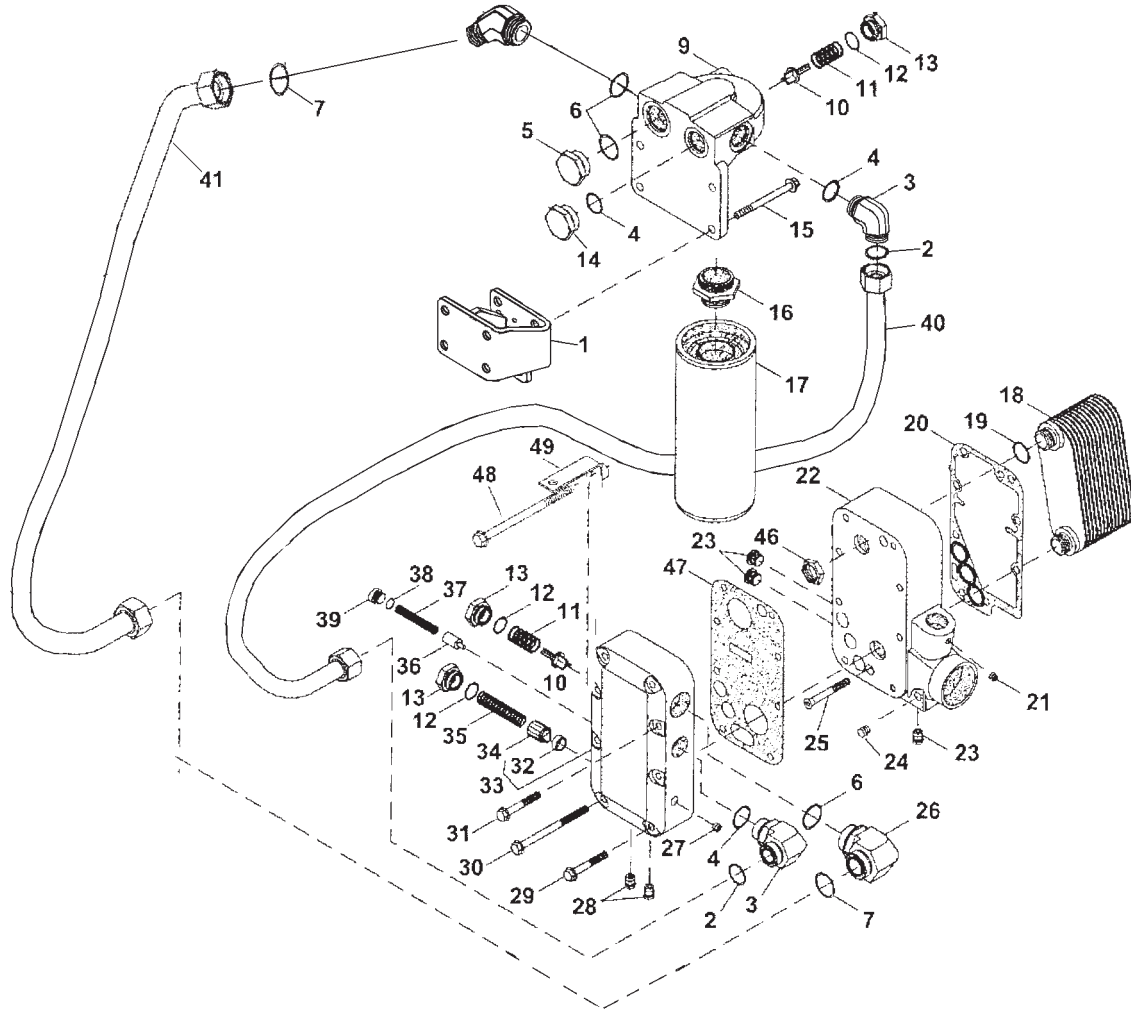
## Oil Filter and Cooler

L1276A-A2, M1276A1, A2, A3, NL1276 All

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500657	1	Oil Cooler	-
2	R134716	2	O-ring	-
3	R500209	1	Gasket	-
4	RE71255	1	Pipe Plug	-
5	R116854	1	Housing	-
6	15H624	1	Pipe Plug, 1/2"	-
7	R55233	1	Pipe Plug (sub for AT13740)	-
8	19M8574	2	Screw, M10 x 85 mm	-
9	R500210	1	Gasket	-
10	RE515304	1	Housing (marked RE503400 or R503714, sub for RE505883, includes key #20)	-
11	21-00132	1	Bushing 1/4 NPT x 1/8 NPT	-
12	R127208	1	Adapter	-
13	RE58935	1	Oil Filter	-
14	R500055	2	Valve, Bypass	-
15	R98064	2	Spring	-
16	U17409	3	O-ring	-
17	R500232	3	Fitting Plug	-
18	19M7810	1	Screw, M10 x 80 mm	-
19	19M7958	7	Screw, M10 x 150 mm	-
20		1	Bushing (not available separately - use RE515304)	-
	R40750	**	Washer	-
21	R124186	1	Relief Valve, Pressure Regulating	-
22	R130717	1	Spring	-
23	R63532	1	Valve	-
24	T31636	1	Spring	-
25	R26375	1	O-ring	-
26	R33138	1	Fitting	-
27	21-51905	**	Plug, Socket Head 1/4 NPT	-
28	R136500	2	Nut	-
29	RE167207	1	Engine Oil Pressure Sensor (replaces RE56009)	-
			**As required	

# Oil Filter and Cooler

L- M1276



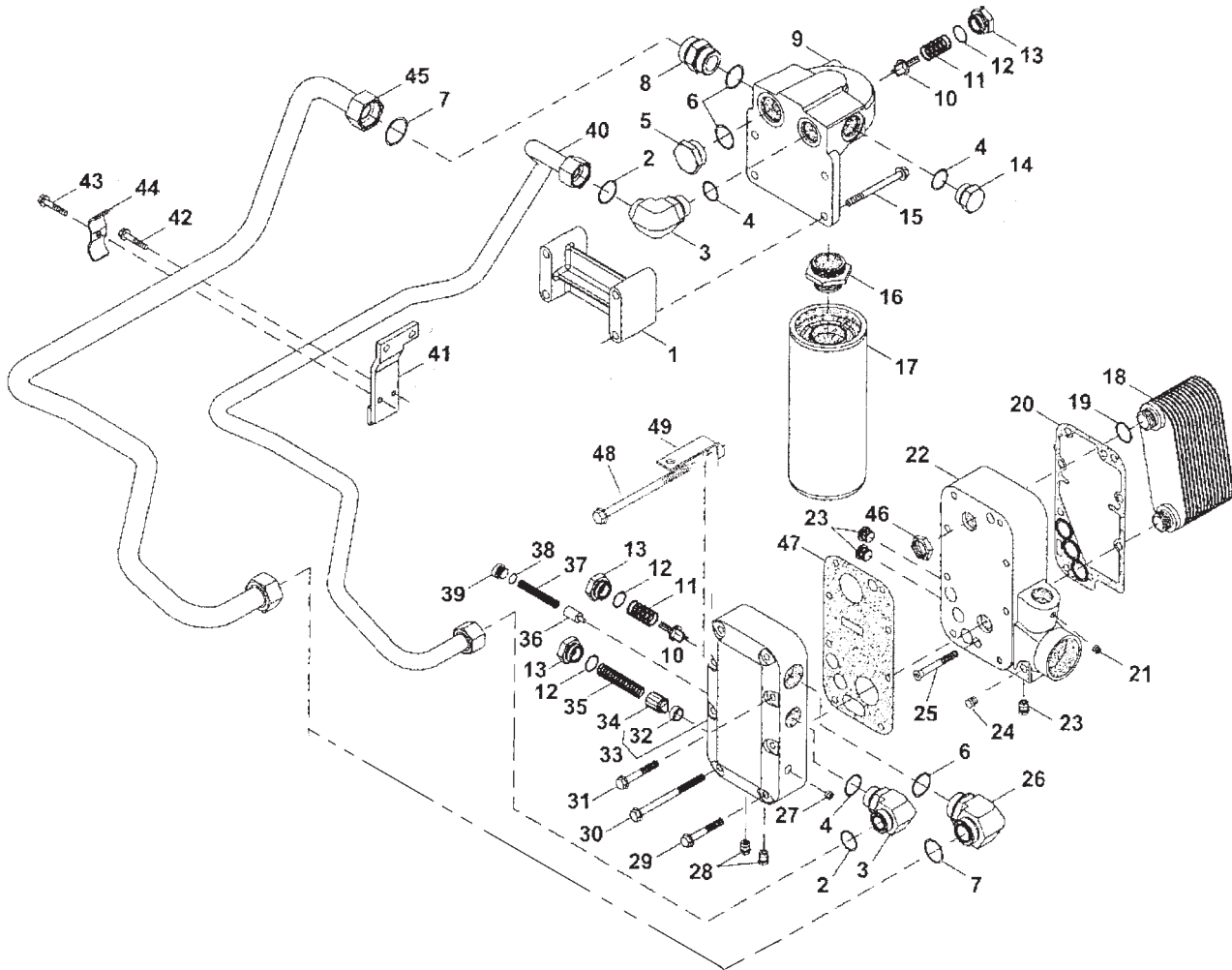
## Oil Filter and Cooler

L- M1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-09713	1	Bracket	-
2	T76938	2	O-ring	-
3	21-79705	2	Male Elbow 90° Steel 1" O-ring Port	-
4	R29936	2	O-ring	-
5	R39741	1	Drain Plug	-
6	U13639	2	O-ring	-
7	T78612	2	O-ring	-
8	21-79711	1	Male Elbow 45° Steel 1-1/4" O-ring Port	-
9	R504011	1	Adapter, Right Hand Oil Filter Mtg.	-
10	R500055	2	Valve	-
11	R98064	2	Spring	-
12	U17409	3	O-ring	-
13	R500232	3	Fitting Plug	-
14	R36636	1	Fitting Plug	-
16	R127208	1	Adapter	-
17	RE58935	1	Oil Filter L, M, NL1276	-
18	RE500657	1	Oil Cooler	-
19	R134716	2	O-ring	-
20	R500209	1	Gasket	-
21	RE71255	1	Pipe Plug	-
22	R116854	1	Housing	-
23	RE57836	3	Pipe Plug 1/2"	-
24	R55233	1	Pipe Plug	-
25	19M8574	2	Screw	-
26	21-79706	1	Male Elbow, 90° Steel 1-1/4" O-ring Port	-
27	A4925R	1	Fitting	-
28	R55233	2	Pipe Plug	-
29	19M7810	1	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm	-
30	19M7958	6	Screw (2 ea. per pack)	-
31	19M8598	1	Capscrew, Hex Head Flanged M10 x 1.5 x 170 mm	-
32	RE504758	1	Housing	-
34	R124186	1	Pressure Relief Valve	-
35	R130717	1	Spring	-
36	R63532	1	Valve	-
37	T31636	1	Spring	-
38	R26375	1	O-ring	-
39	R33138	1	Fitting	-
40	18-09701	1	Hose Assembly 7/8" x 77-1/2"	-
41	18-09702	1	Hose Assembly 1-1/8" I.D. x 63"	-
42	R500210	1	Gasket	-

# Oil Filter and Cooler

NL1276H2 Power Unit



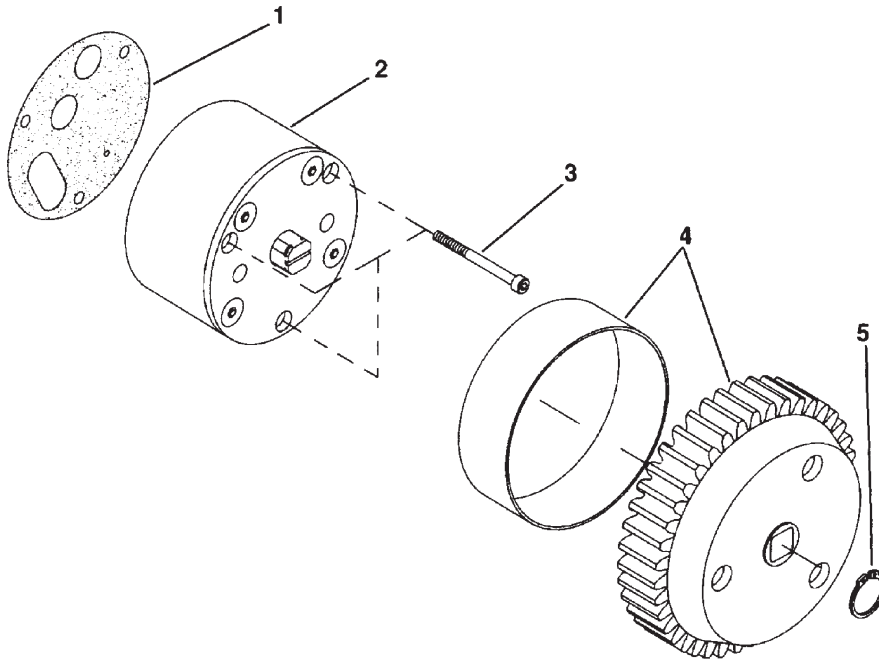


## Oil Filter and Cooler

NL1276H2 Power Unit

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R50400	1	Bracket	-
2	T76938	2	O-ring	-
3	38H1008	1	Elbow Fitting (also order o-rings #T78612 and U13639)	-
4	R29936	2	O-ring	-
5	R39741	1	Drain Plug	-
7	T78612	2	O-ring	-
8	38H1165	1	Adapter Fitting	-
9	R504011	1	Adapter, Right Hand Oil Filter Mtg.	-
10	R500055	2	Valve	-
11	R98064	2	Spring	-
12	U17409	3	O-ring	-
13	R500232	3	Fitting Plug	-
14	R36636	1	Fitting Plug	-
15	19M7908	4	Capscrew, M12 x 110 mm	-
16	R127208	1	Adapter, 24 mm x 67 mm	-
17	RE58935	1	Oil Filter	-
18	RE500657	1	Oil Cooler	-
19	R134716	2	O-ring	-
20	R500209	1	Gasket	-
21	RE71255	1	Pipe Plug	-
22	R116854	1	Housing	-
23	RE57836	3	Pipe Plug 1/2"	-
24	R55233	1	Pipe Plug	-
25	19M8574	2	Screw, M10 x 85 mm	-
26	61H1165	1	Screw	-
27	A4925R	1	Fitting	-
28	R55233	2	Pipe Plug	-
29	19M7810	1	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm	-
30	19M7958	6	Screw, M10 x 150 mm	-
31	19M8598	1	Capscrew, Hex Head Flanged M10 x 1.5 x 170 mm	-
32	RE504758	1	Housing	-
	R43549	**	Washer	-
33	RE504758	1	Housing (marked R501537)	-
34	R124186	1	Pressure Relief Valve	-
35	R130717	1	Spring	-
36	R63532	1	Valve	-
37	T31636	1	Spring	-
38	R26375	1	O-ring	-
39	R33138	1	Fitting	-
40	RE505983	1	Tube, Outlet	-
41	RE508345	1	Bracket	-
43	19M8318	1	Screw, M8 x 45 mm	-
44	U46753	1	Hose Clamp	-
45	RE505982	1	Tube, Inlet	-
46	R136500	2	Nut	-
47	R500210	1	Gasket	-

**Oil Pump**

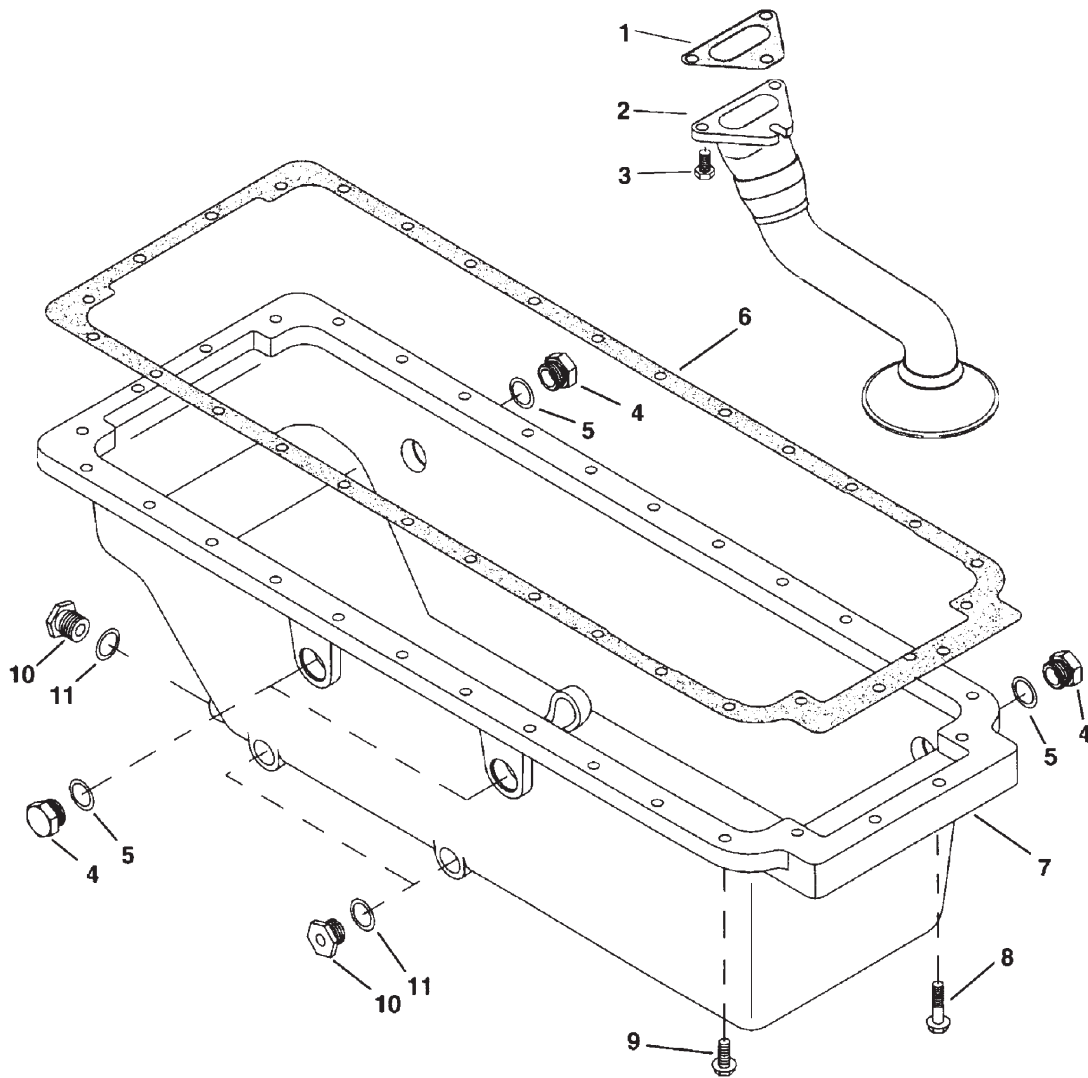


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RGP4693

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
1	R500387	1	Gasket	-
2	RE501880	1	Oil Pump (contains [4] 19M8675, sub RE502752)	up to - 031394
	RE502752	1	Oil Pump (contains [4] 19M8675)	from 031395 -
3	19M8508	3	Screw, M8 x 80	-
4	RE53654	1	Gear	-
5	40M7076	1	Snap Ring	-

Oil Pan

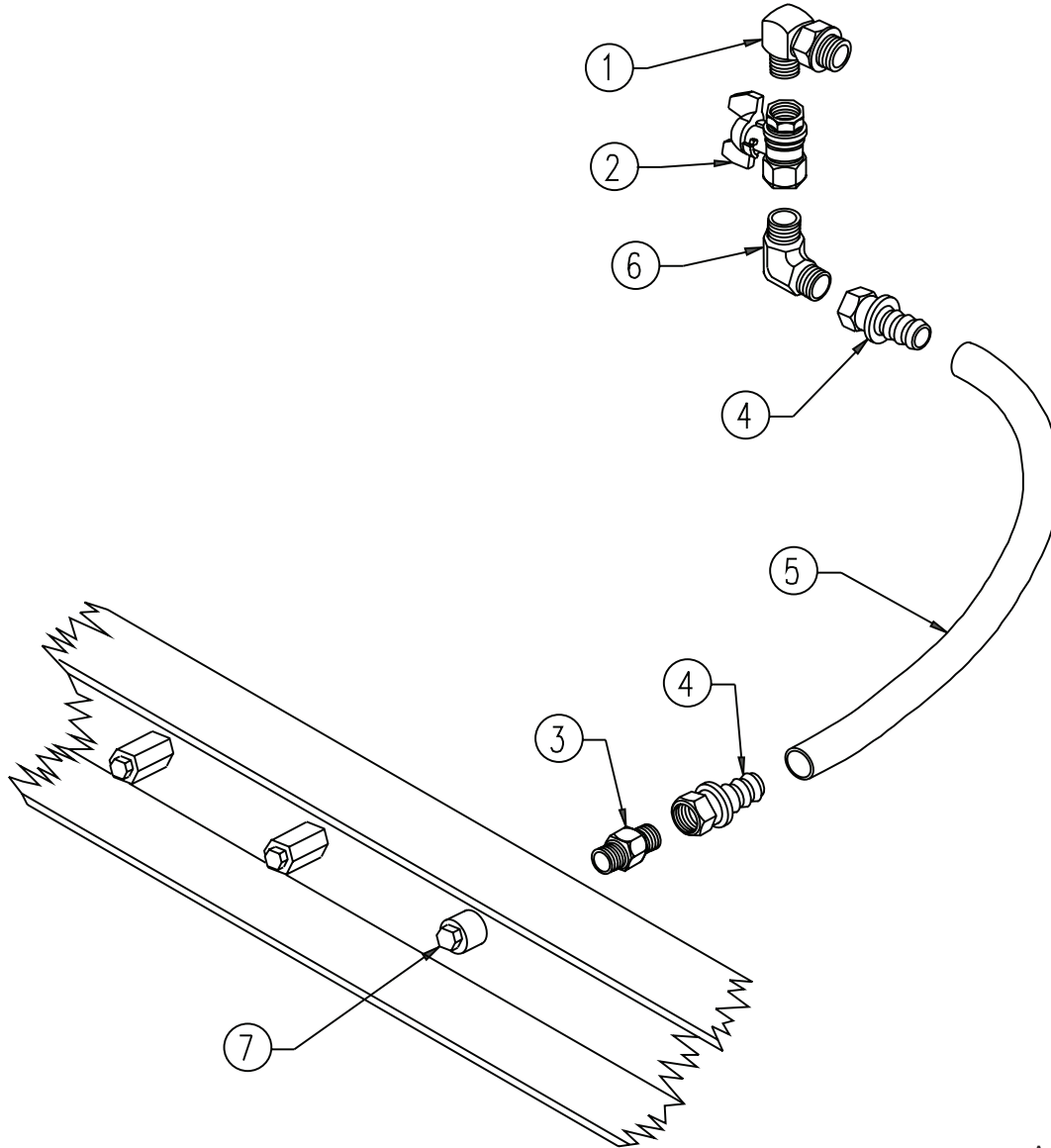


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RGP5365

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R126783	1	Gasket	-
2	RE68429	1	Oil Pump Intake	-
3	19M7866	3	Screw, M8 x 20 mm	-
4	R36636	1	Fitting Plug	-
5	R29936	1	O-ring	-
6	RE521549	1	Gasket	-
7	R128780	1	Oil Pan	-
8	19M8528	8	Screw, M10 x 55 mm	-
9	19M7835	22	Screw, M10 x 35 mm	-
10	R27175	4	Drain Plug	-
11	R56751	4	O-ring	-

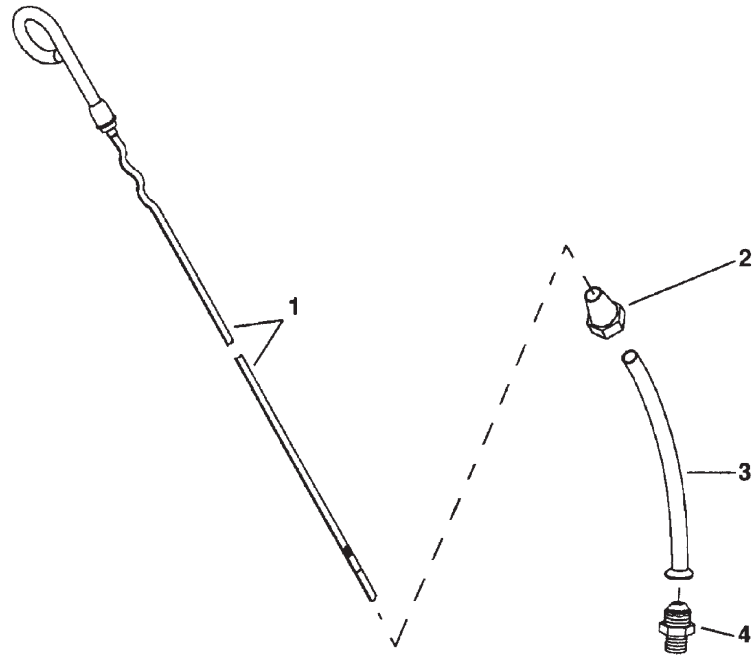
**Oil Drain M1276**



A-10240 / B-9349

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-79701	1	Male Elbow, 90° Steel	-
2	36-70008	1	Ball Valve, Brass 3/4 NPT	-
3	21-12803	1	Male Connector, Steel 3/4 NPT x 3/4-37T	-
4	21-71059	2	Female Swivel, Brass 3/4 HB x 3/4-37T	-
5	41-00002	20"	Hose, 3/4" I.D., Push-on	-
6	21-64801	1	Male Elbow, 90° Steel 3/4 NPT x 3/4-37T	-
7	21-12530	1	Plug, Hex Head Brass 3/4 NPT	-

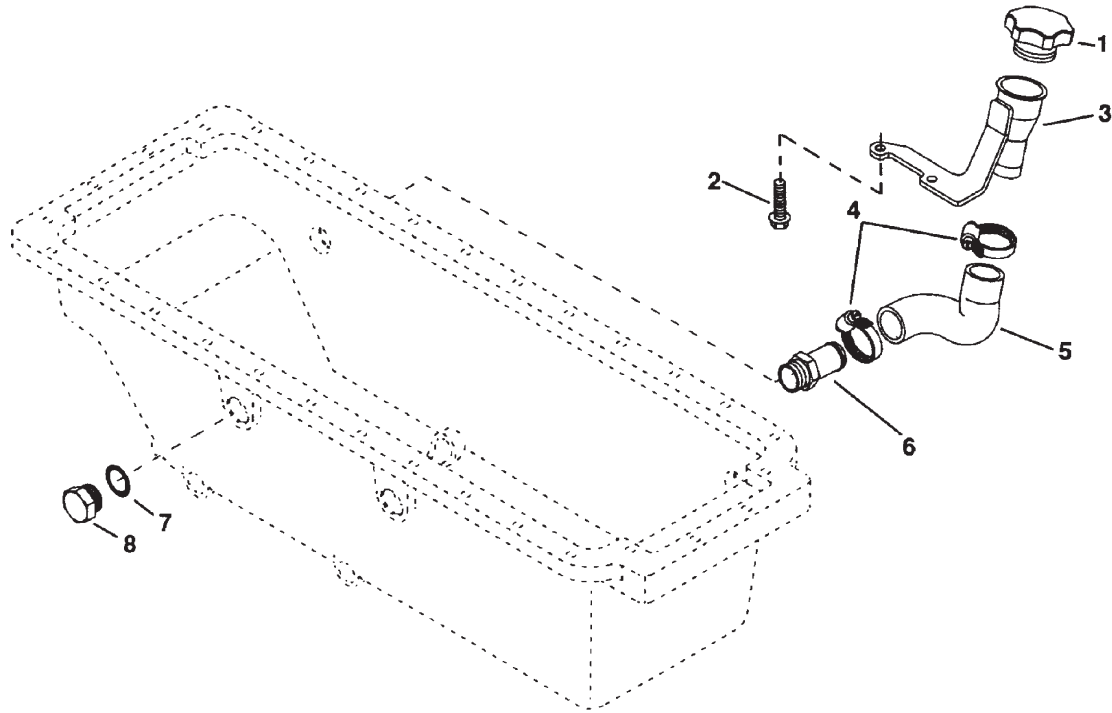
Oil Dipstick



RGP4907

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE521521	1	Dipstick (Center, Right hand, formerly #RE66583)	-
2	A4925R	1	Male Connector, Brass 1/4 NPT x 3/8- 45T	-
3	R130049	1	Dipstick Tube*	-
4	A4926R	1	Tube Nut, Short Brass 3/8- 45T	-
	15H685	**	Pipe Plug 1/4" (for unused locations)	-
			*Note: Dipstick tube is replaced by new #RE526276 and dipstick #RE525818.	
			**As required.	

**Oil Fill Assembly**

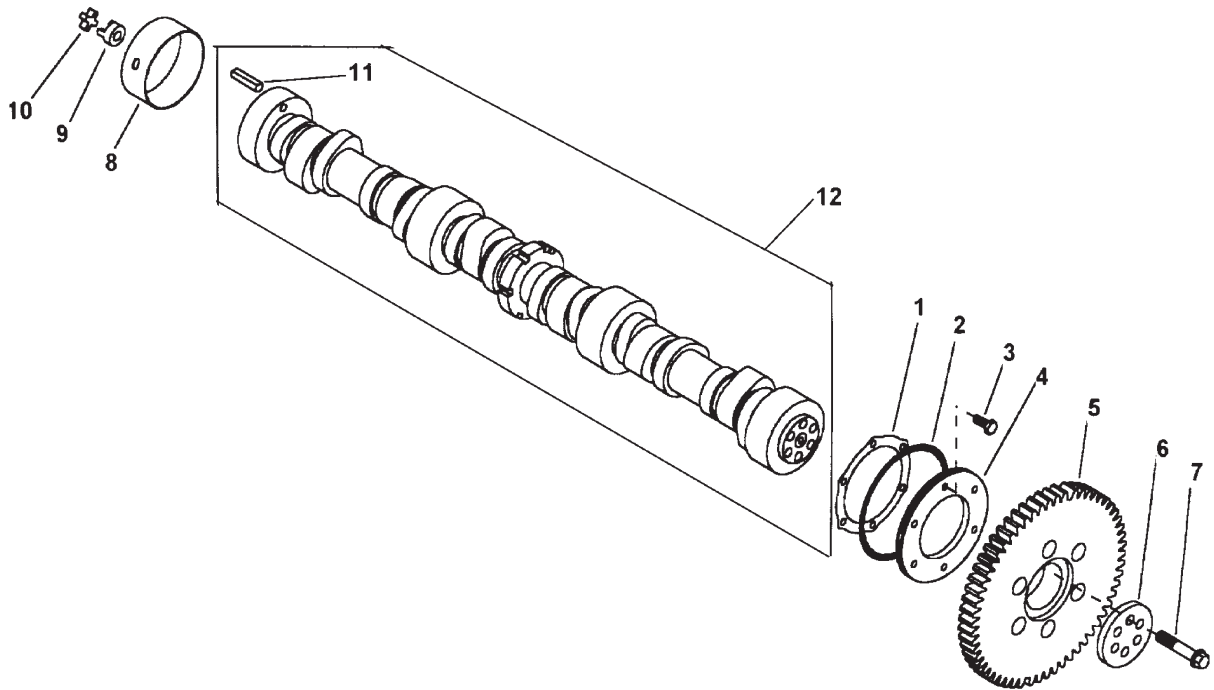


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RGP5360

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500250	1	Filler Cap	-
2	19M7804	2	Screw, M10 x 40 mm	-
3	RE505718	1	Tube ( L.H. Rear)	-
4	AR44217	2	Clamp	-
5	R133758	1	Hose	-
6	AU14063	1	Hose Fitting	-
7	R29936	3	O-ring	-
8	R36636	3	Fitting Plug	-

Camshaft

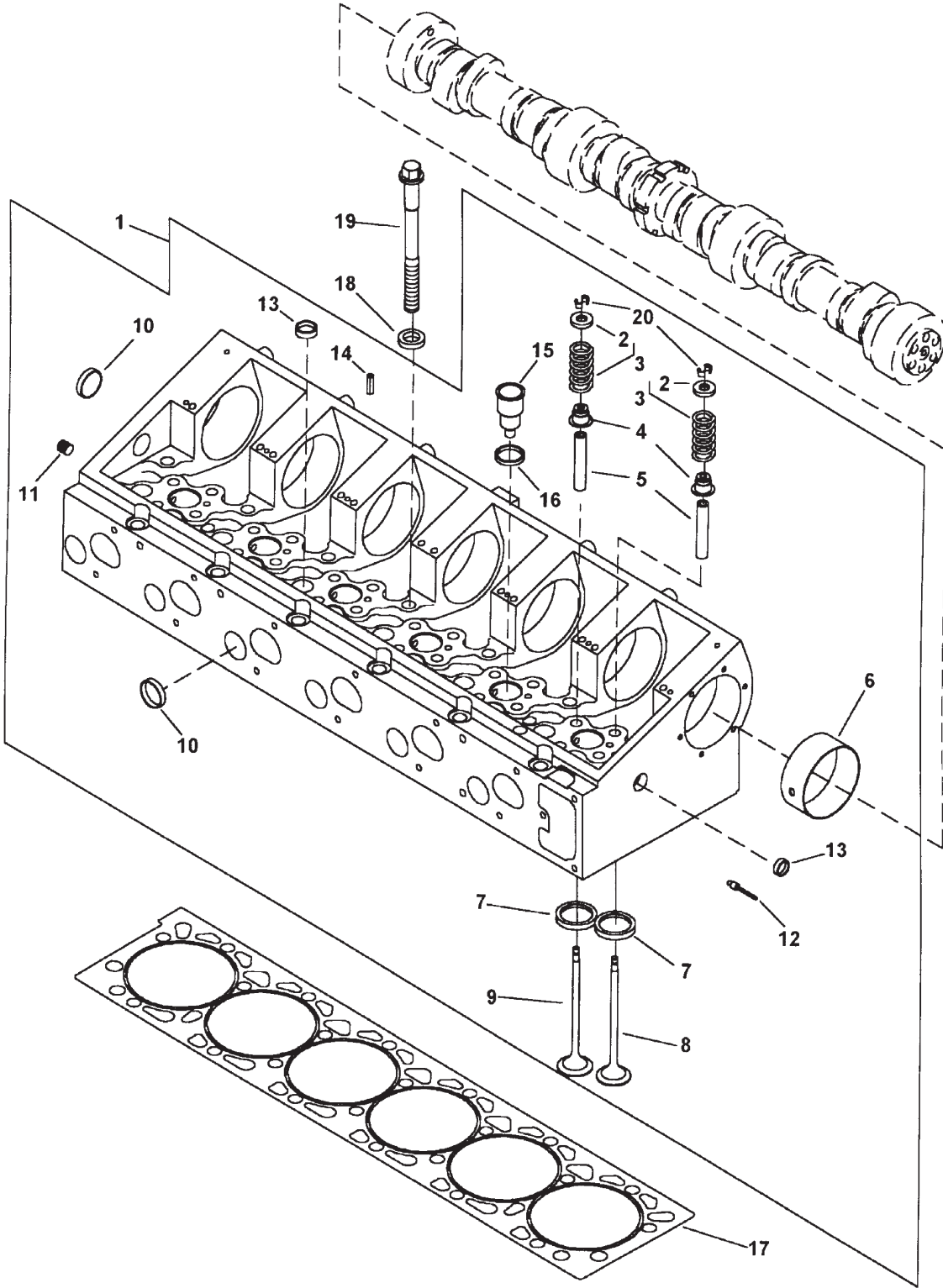


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RGP7164

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R500211	1	Gasket	-
2	R62976	1	O-ring	-
3	R119158	1	Ring	-
4	19M7867	6	Capscrew, M8 x 25	-
5	R116526	1	Gear	-
6	R119575	1	Bushing	-
7	R116911	6	Capscrew	-
8	R134706	4	Bushing	-
9	R117021	1	Coupling	-
10	R502027	1	Spider	-
11	R117020	1	Pin	-
12	RE506962	1	Camshaft (marked R503970, includes key #11)	-

# Cylinder Head





## Cylinder Head

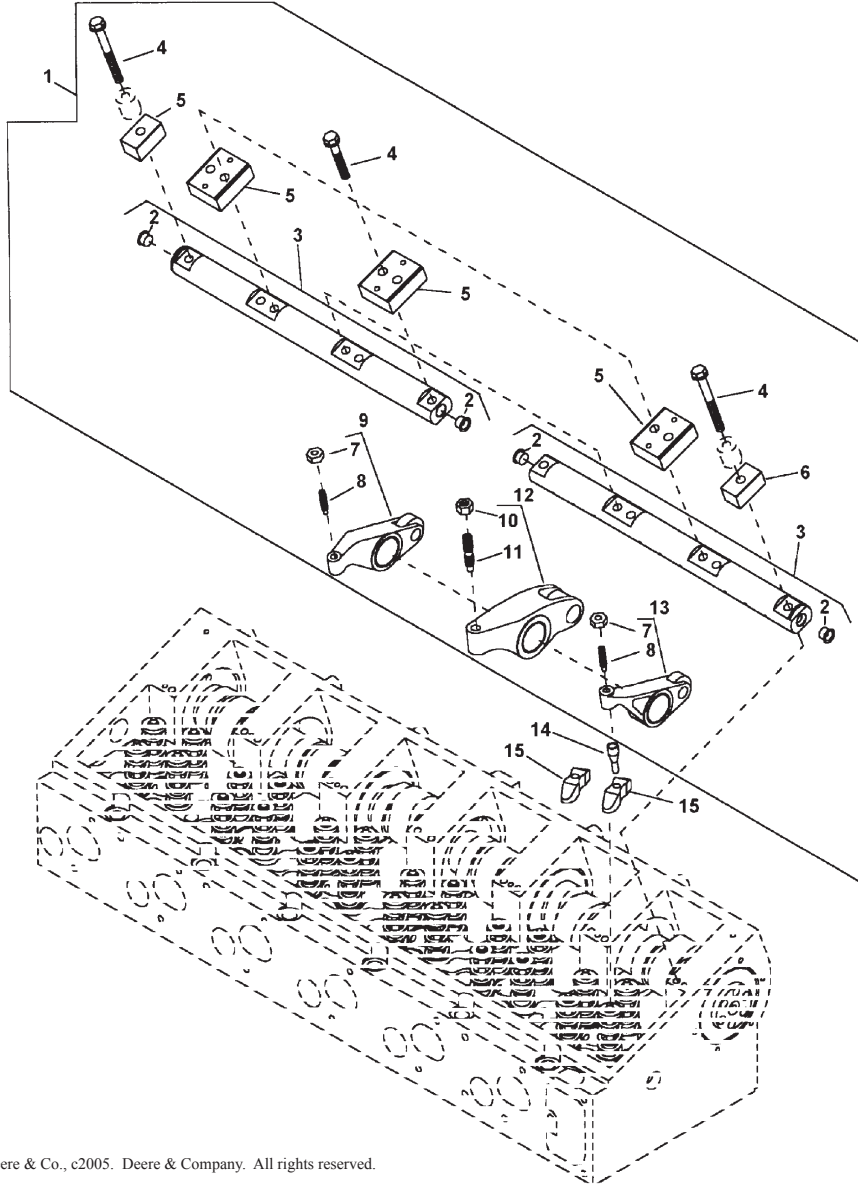
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE518347	1	Cylinder Head (marked R504243)	-
2		**	Spring	-
3	RE505499	24	Kit	-
4	RE66635	24	Seal	-
5	R517011	24	Sleeve	-
6	R134706	4	Bushing	-
7	R504713	24	Valve Seat Insert (Standard)	-
	R133637	**	Valve Seat Insert (.25 mm [.010"] OS)	-
8	R516892	12	Exhaust Valve (Exhaust, Standard)	-
9	R516892	12	Exhaust Valve (Intake, Standard)	-
10	M1206T	7	Cap (38 mm OD)	-
11	15H690	5	Pipe Plug, 3/4"	-
12	R504174	3	Plug	-
	AT107509	1	Plug	-
13	N102039	6	Cap (25 mm OD)	-
14	34H309	4	Spring Pin, 1/4" x 5/8"	-
15	RE518339	6	Sleeve	-
16	T122075	6	O-ring	-
17	RE57784	1	Engine Cylinder Head Gasket	-
18	R129645	26	Washer*	-
19	R519524	26	Capscrew* (formerly #R132103)	-
20	R91889	48	Retainer	-

\*Included in Head Bolt kit RE530817 (formerly #RG28087)

\*\*As required

GROUP 1 – ENGINE

**Rocker Arm & Shaft Assembly**

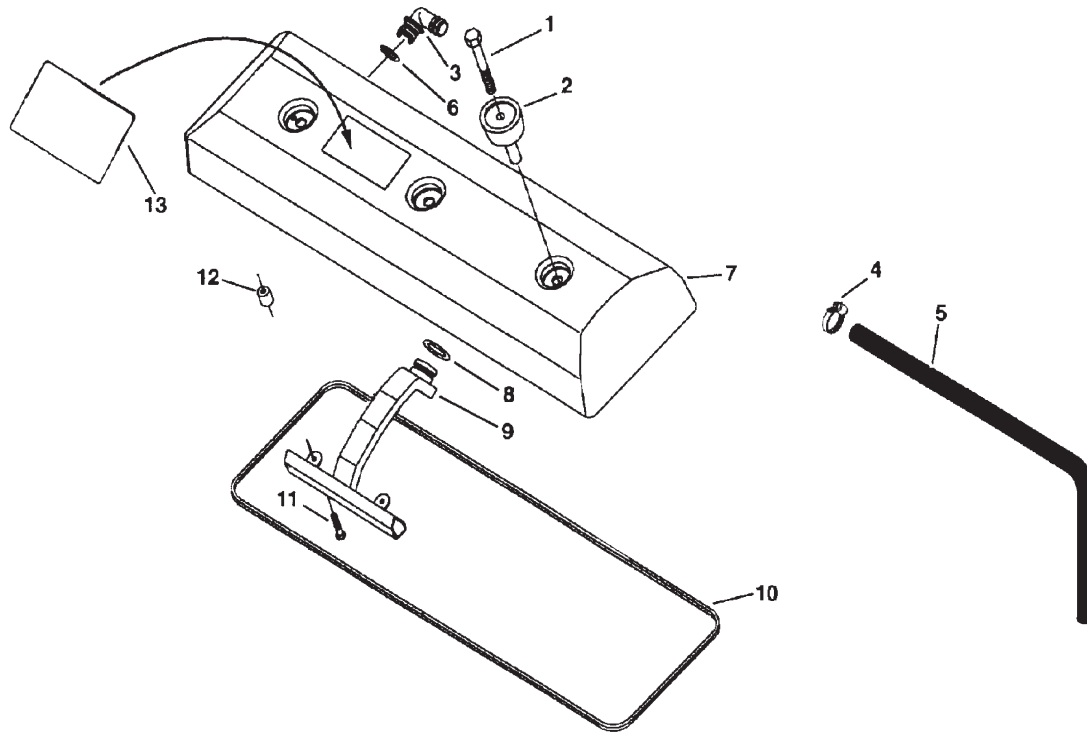


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RG36343

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE535520	1	Rocker Shaft Assembly (includes keys 2-13)	-
2	30M7010	4	Cap	-
3	RE520808	2	Rocker Arm Shaft Assembly (includes key #2) Former # RE515358	-
4	R136507	12	Screw	-
5	R501647	5	Clamp	-
6	R501644	2	Clamp (also order R136507) Former # R130501	-
7	R500145	12	Nut	-
8	R116556	12	Screw	-
9	RE53416	6	Rocker Arm, Intake	-
10	R130643	6	Nut	-
11	R115516	6	Screw	-
12	RE508660	6	Rocker Arm, Injector	-
13	RE53420	6	Rocker Arm, Exhaust	-
14	R117069	12	Push Rod	-
15	RE503824	12	Crossbar	-

Rocker Arm Cover

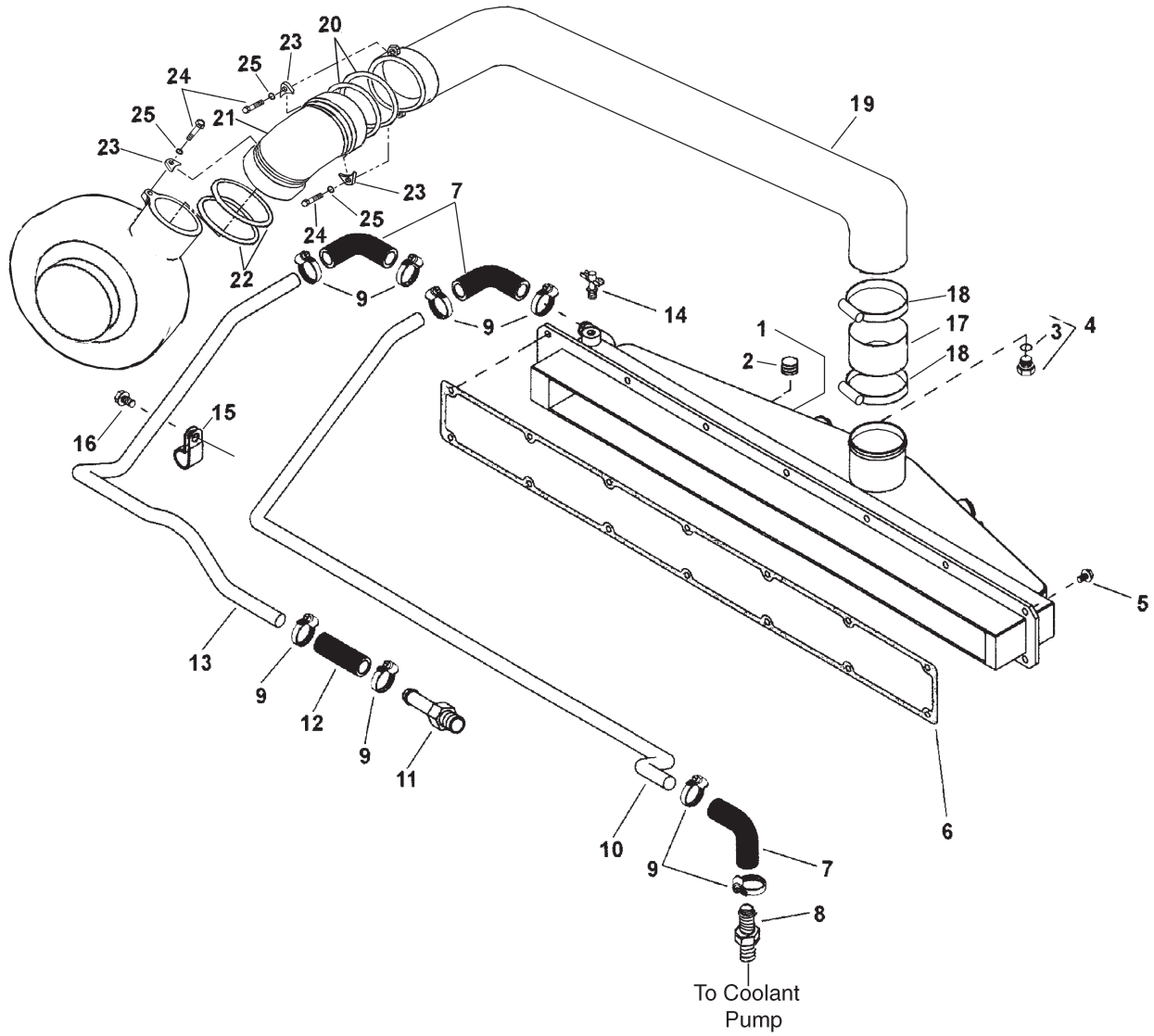


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RGP5334

KEY	PART NUMBER	QTY	DESCRIPTION	DEERE S/N
1	19M8039	3	Screw, M8 x 80 mm	-
2	RE71265	3	Isolator	-
3	R120467	1	Elbow Fitting	-
4	AR21839	1	Clamp	-
5	TY22450	**	Bulk Hose } Industrial Only	-
6	R72328	1	O-ring	-
7	R116843	1	Valve Cover	up to - 014582
	R505450	1	Valve Cover	from 014583 -
8	R63185	1	O-ring	-
9	RE66329	1	Deflector	-
10	R130738	1	Gasket	up to - 014582
	R521520	1	Gasket (formerly #R502124)	from 014583 -
11	R130091	2	Screw, M6 x 12 mm	-
12	R501292	2	Bushing	-
13		1	Label	-
			**As required	

# Intake Manifold & Air Intake Connection Assembly

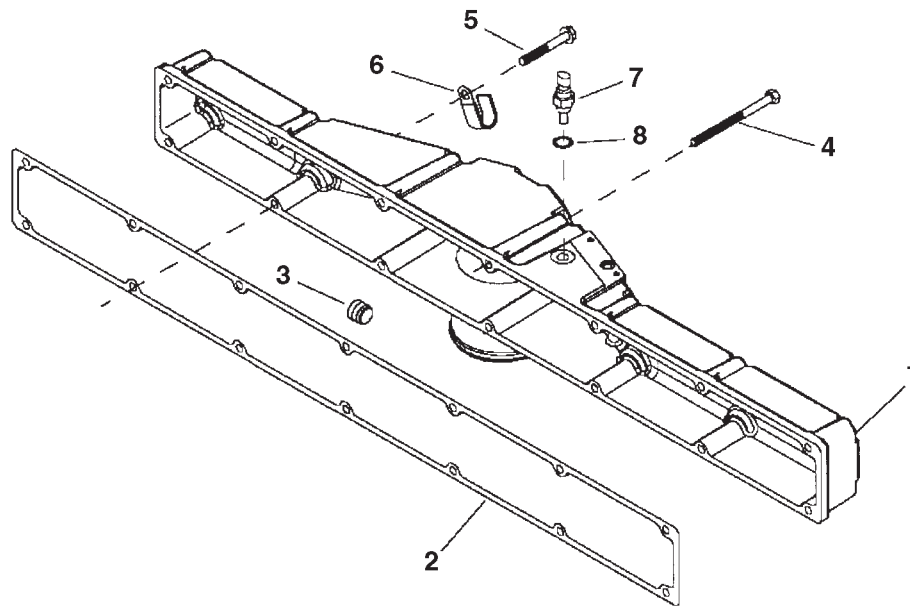


## Intake Manifold &amp; Air Intake Connection Assembly

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE62249	1	Aftercooler & Intake Manifold	-
2	21-31003	2	Pipe Plug 3/8 NPT	-
3	RE46684	1	Plug	-
4	16-00005	1	O-ring	-
5	R116830	1	Gasket	-
6	19M7866	14	Capscrew M8 x 20	-
7	R523240	3	Hose (formerly #R129608)	-
8	21-31616	1	Male Connector, Steel 1/2 NPT x 3/4 Hose Barb	-
9	19-01012	8	Clamp #12	-
10	R129702	1	Tube, Outlet	-
11	21-31616	1	Male Connector, Steel 1/2 NPT x 3/4 Hose Barb	-
12	R129607	1	Hose	-
13	R502193	1	Tube, Inlet	-
14	21-10002	1	Drain Valve	-
15	R502194	1	Clamp	-
16	19M7785	1	Capscrew, Hex Head Flanged M10 x 1.5 x 25 mm	-
17	18-24801	1	Hose, 3" ID x 3" 6 Ply Silicone	-
18	19-02044	2	Hose Clamp #44	-
19	27-29701	1	Tube, Air Intake	-
20	16-25002	2	O-ring	-
21	10-24806	2	Elbow, Air Inlet	-
22	16-25002	2	O-ring	-
23	00-24802	3	Clamp Dog	-
24	12-00312	3	Capscrew, Hex Head 3/8-16 x 1"	-
25	15-00302	3	Lock Washer 3/8"	-

**Intake Manifold**

NL1276



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RGP7209

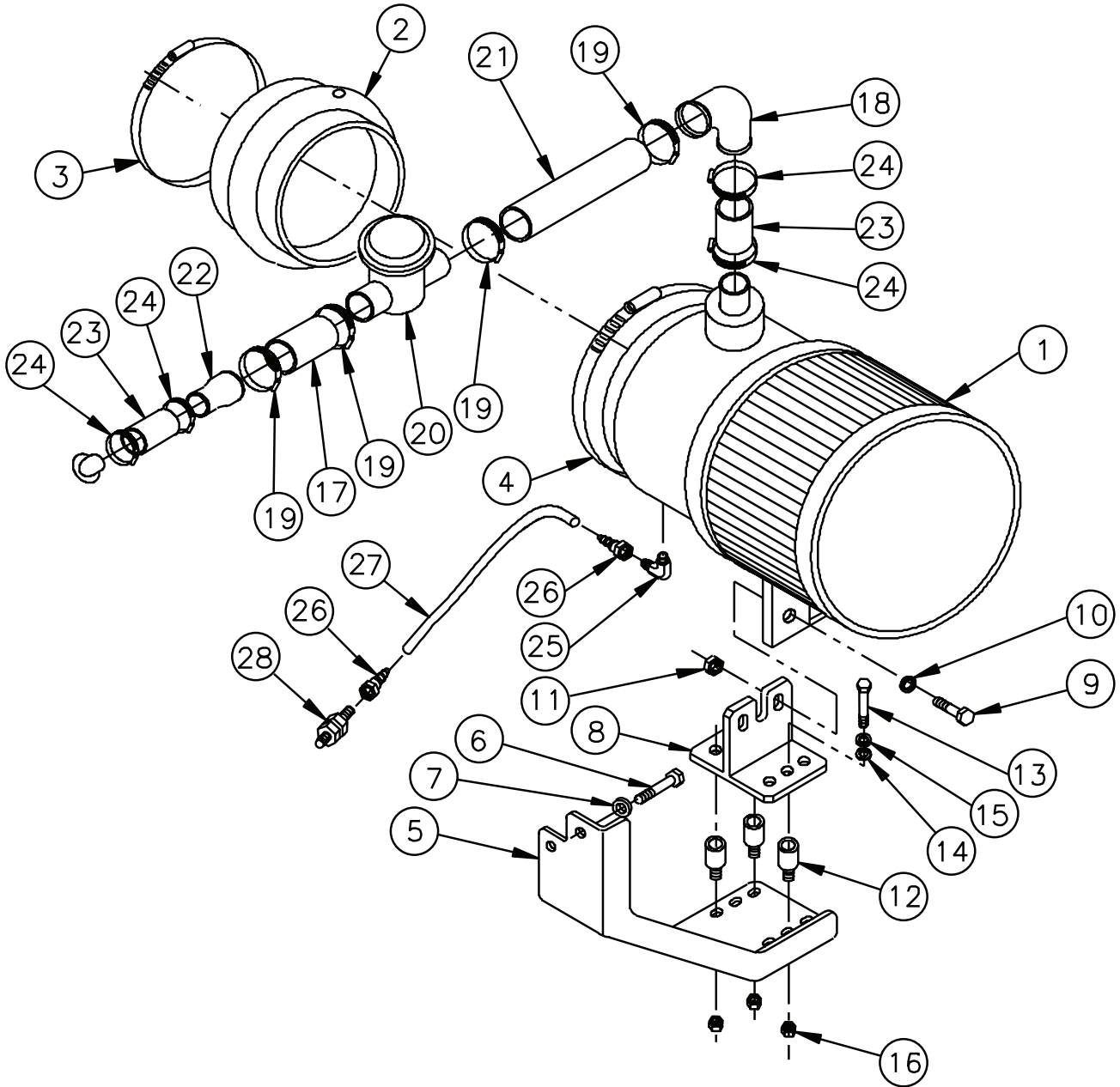
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R516998	1	Cover	-
2	R116830	1	Gasket	-
3	15H666	1	Pipe Plug	-
4	19M8006	4	Screw, M8 x 120	-
5	19M7803	10	Screw, M8 x 70	-
6	T75197	2	Clamp	-
7	RE61812	1	Sensor	-
8	24M7055	2	Washer	-
9	RE71255	**	Pipe Plug	-
			**As required	



GROUP 2 – INTAKE AND EXHAUST SYSTEM

“Air-Sep” Air Filter

Early Production



A-10192/ B-8248



**“Air-Sep” Air Filter**

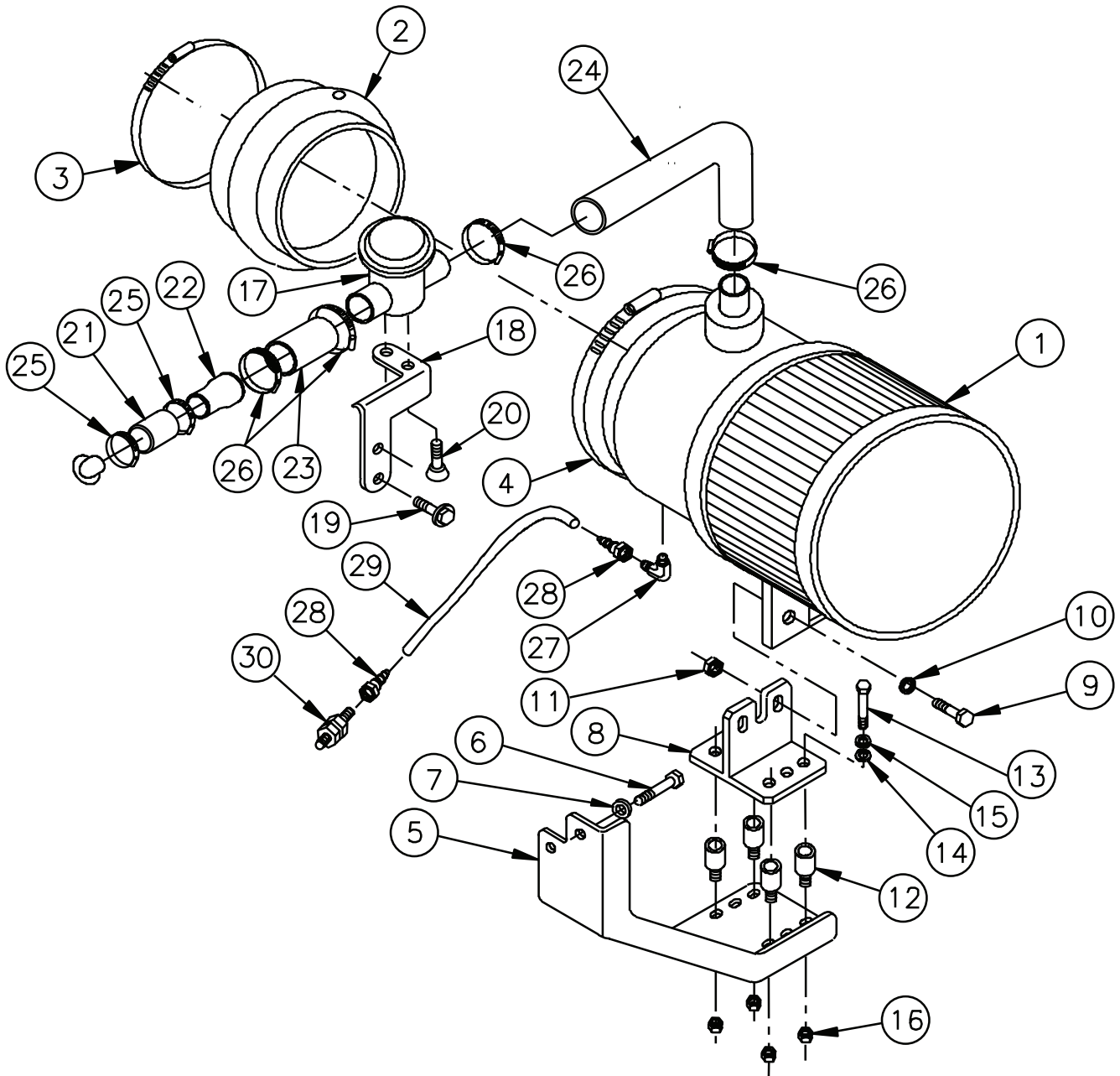
Early Production

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-26807	1	Filter Assembly “Air Sep” *	-
2	18-26801	1	Hump Hose 6” ID x 5” ID x 4” LOA	-
3	19-00104	1	Hose Clamp #104	-
4	19-00088	1	Hose Clamp #88	-
5	23-29704	1	Bracket, “Air Sep” Filter Support, Lower	-
6	12-00812	2	Capscrew, Hex Head M10 x 1.5 x 40 mm	-
7	15-00802	2	Lock Washer M10	-
8	23-24817	1	Bracket, “Air Sep” Filter Support, Upper	-
9	12-00112	2	Capscrew, Hex Head 1/4- 20 x 1”	-
10	15-00111	2	Flat Washer 1/4”	-
11	14-00112	2	Hex Nut, Nylock	-
12	33-70000	3	Mount, Sandwich 55 lb.	-
13	12-00204	3	Capscrew, Hex Head 5/16- 18 x 5/8 Grade 8	-
14	15-00203	6	Star Washer	-
15	15-00211	3	Flat Washer 5/16”	-
16	14-00213	3	Hex Nut	-
17	18-25003	2	Hose, 1- 1/4” ID x 2- 1/4”	-
18	21-71004	1	Female Elbow 90° Copper	-
19	19-00020	6	Hose Clamp #20	-
20	24-26811	1	Vacuum Regulator with Relief**	-
21	41-01070	13	Hose, 1- 1/4” ID	-
22	21-10053	1	Reducing Coupling, Copper 1” x 5/8”	-
23	41-00002	4	Hose, 3/4” ID Push-on	-
24	19-00012	2	Hose Clamp #12	-
25	21-00606	1	Male Elbow, 90° Steel 3/8 NPT x 3/8- 37T	-
26	21-71034	2	Female Swivel, Brass 3/8 HB x 3/8- 37T	-
27	41-01020	35”	Hose 3/8” ID	-
28	21-20002	1	One Way Valve, Brass 1/4 NPT x 3/8- 37T	-
			*Note: Service Elements	
			24-26805 Air Filter	
			24-26808 Oil Separator	
			**See Late Production Assembly to select new support bracket and hose is desired.	

GROUP 2 – INTAKE AND EXHAUST SYSTEM

“Air-Sep” Air Filter

Late Production



A-10192/ B-8248changedtocurrent

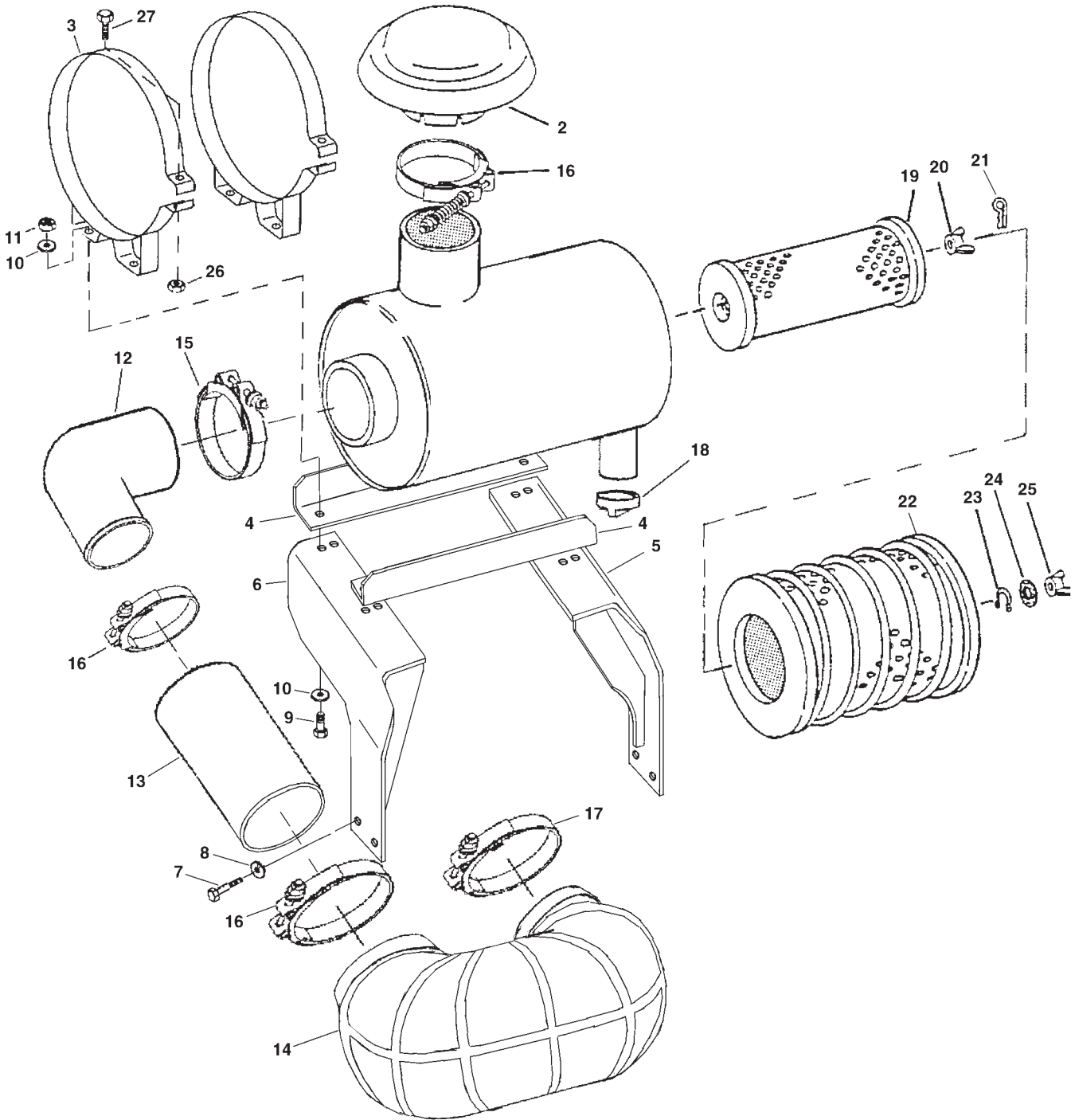
### “Air-Sep” Air Filter

Late Production

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-26807	1	Filter Assembly “Air Sep” *	-
2	18-26801	1	Hump Hose 6” ID x 5” ID x 4” LOA	-
3	19-00104	1	Hose Clamp #104	-
4	19-00088	1	Hose Clamp #88	-
5	23-29704	1	Bracket, “Air Sep” Filter Support, Lower	-
6	12-00812	2	Capscrew, Hex Head M10 x 1.5 x 40 mm	-
7	15-00802	2	Lock Washer M10	-
8	23-24817	1	Bracket, “Air Sep” Filter Support, Upper	-
9	12-00112	2	Capscrew, Hex Head 1/4- 20 x 1”	-
10	15-00111	2	Flat Washer 1/4”	-
11	14-00112	2	Hex Nut, Nylock	-
12	33-70000	4	Mount, Sandwich 55 lb.	-
13	12-00204	4	Capscrew, Hex Head 5/16- 18 x 5/8 Grade 8	-
14	15-00203	8	Star Washer	-
15	15-00211	4	Flat Washer 5/16”	-
16	14-00213	4	Hex Nut	-
17	24-26811	1	Vacuum Regulator	-
18	23-29707	1	Bracket	-
19	19M7788	2	Capscrew, Hex Head Flanged M12 x 1.75 x 25 mm	-
20	12-93309	2	Capscrew, Flat Head Socket 3/8- 16 x 5/8” 82° S/S	-
21	41-01051	3-1/4”	Hose, 3/4” ID	-
22	21-10053	1	Reducing Coupling	-
23	41-01072	2.3”	Hose, 1-1/4” ID	-
24	18-29703	1	Hose 1-1/4” ID 90° Molded	-
25	19-01012	2	Hose Clamp #12 Extended Band S/S	-
26	19-01020	4	Hose Clamp #20 Extended Band S/S	-
27	21-00606	1	Male Elbow 90° Steel 3/8 NPT x 3/8-37T	-
28	21-71034	2	Female Swivel, Brass 3/8 HB x 3/8-37T	-
29	41-01020	42”	Hose 3/8” ID Push-on	-
30	21-20002	1	One Way Valve, Brass 1/4 NPT x 3/8-37T	-
			*Note: Service Elements	
			24-26805 Air Filter	
			24-26808 Oil Separator	
			16-26801 O-ring, Oil Separator (inner)	
			16-26802 O-ring, Oil Separator (outer)	

**Air Filter**

NL1276



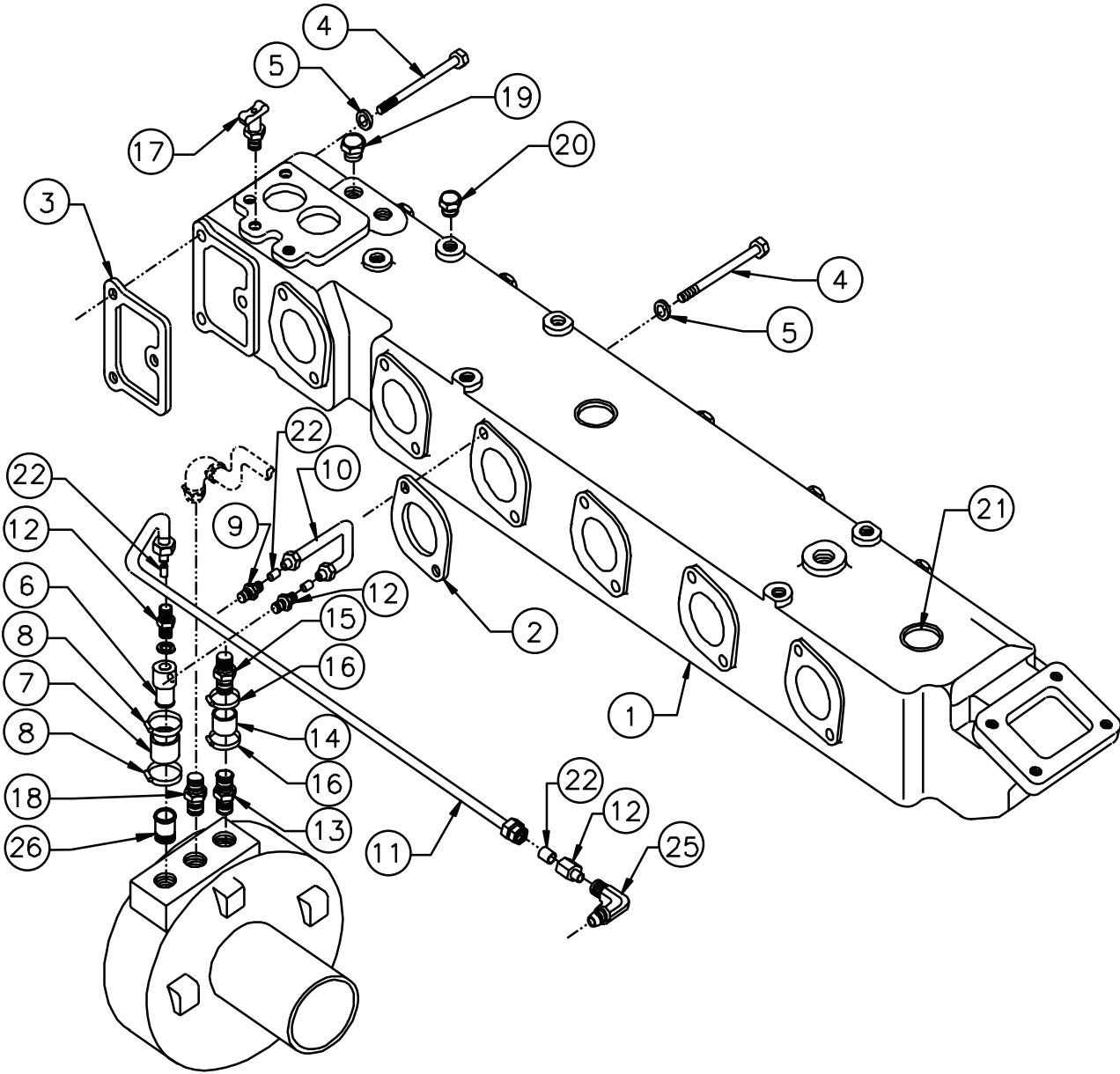
A-9461, A-11416/ RGP9654

## Air Filter

NL1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE16807	1	Air Filter Assembly (includes keys #16, 18-25)	-
2	RE16811	1	Rain Cap	-
3	RE16810	2	Bracket, Air Filter Mtg.	-
4	23-29701	2	Bracket, Air Filter Mtg. Brace	-
5	23-29702	1	Bracket, Air Filter Mtg. Left hand (Early Production)	-
	23-29705	1	Bracket, Air Filter Mtg. Left hand (Late Production)	-
6	23-29703	1	Bracket, Air Filter Mtg. Right hand (Early Production)	-
	23-29706	1	Bracket, Air Filter Mtg. Right hand (Late Production)	-
7	12-01313	4	Capscrew, Hex Head 5/8- 11 x 1- 1/4	-
8	15-00902	4	Lock Washer 5/8"	-
9	12-00814	4	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
10	15-00805	8	Flat Washer M10	-
11	14-00812	4	Hex Nut Nylock M10 x 1.5	-
12	R133585	1	Elbow, Air Intake	-
13	R133587	1	Tube, Air Intake	-
14	R152687	1	Reducing Elbow, Air Intake	-
15	19-00128	2	Hose Clamp #128	-
16	19-00104	2	Hose Clamp #104	-
17	19-00096	1	Hose Clamp #96	-
18	R45096	1	Valve	-
19	RE16809	1	Filter Element	-
20	E52884	1	Nut	-
21	E52882	1	Pin Fastener	-
22	RE16808	1	Filter Element	-
23	P46402	1	Snap Ring	-
24	E52880	1	Gasket	-
25	AT69791	1	Nut	-
26	E55662	4	Flange Nut	-
27	19H3704	2	Capscrew 3/8" x 2-1/4"	-

Exhaust Manifold



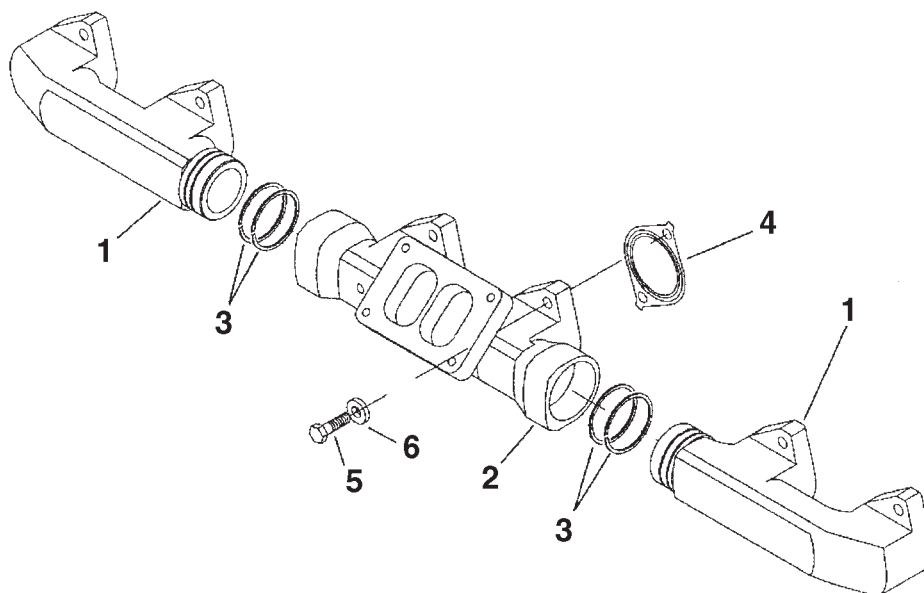
A-10193/ B-7999

## Exhaust Manifold

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-39701	1	Exhaust Manifold (includes key #21)	-
2	R131809	6	Gasket	-
3	R116205	1	Gasket	-
4	12-00844	15	Capscrew, Hex Head M10 x 1.5 x 205 mm	-
5	15-00805	15	Flat Washer M10	-
6	31-19702	1	Adapter, Cooling System Vent Connection	-
7	41-01052	**	Hose, 1" ID 3 Ply Silicone	-
8	19-01016	2	Hose Clamp #16	-
9	21-09701	1	Male Connector, Brass 1/8 NPT x 3/8"	-
10	27-19710	1	Tube Assembly, Liner Coolant Return, Forward (includes keys 22-23)	-
11	27-19711	1	Tube Assembly, Liner Coolant Return, Rear (includes keys 22-23)	-
12	21-09702	3	Male Connector, Brass 1/4 NPT x 3/8"	-
13	21-19704	1	Male Connector, Brass 3/4 NPT x 1" HB	-
14	41-01052	5"	Hose, 1" ID 3 Ply Silicone SAE J20R1	-
15	21-19705	1	Male Connector, Brass 1" NPT x 1" HB	-
16	19-01016	2	Hose Clamp #16	-
17	21-10002	1	Drain Cock 1/4 NPT	-
18	21-31616	1	Male Connector, 1/2 NPT x 3/4" Hose Barb	-
19	21-00530	**	Plug, Hex Head Brass 1/2 NPT	-
20	21-31003	**	Plug, Hex Head Brass 3/8 NPT	-
21	17-15001	5	Expansion Plug	-
22	21-09703	4	Sleeve	-
23	21-09704	4	Nut	-
24	21-31616	1	Male Connector, Steel 1/2 NPT x 3/4" Hose Barb	-
25	T11370	1	Street Elbow, Steel 1/8 NPT x 1/4 NPT	-
26	R57503	1	Connector, 1" Hose Barb	-
			**As required	

**Exhaust Manifold**

NL1276



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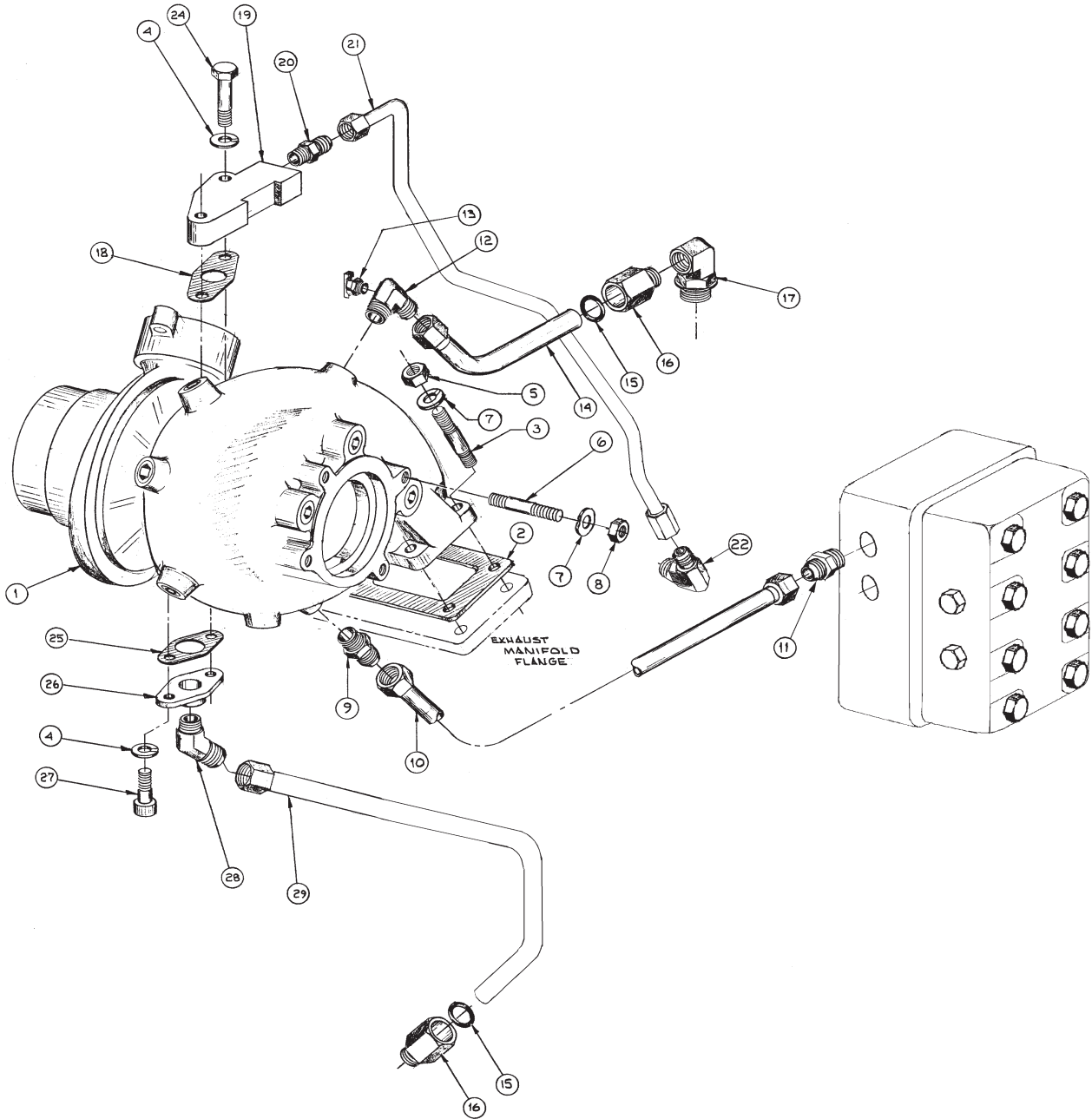
RGP4739

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R504613	2	Exhaust Manifold	-
2	R116838	1	Exhaust Manifold	-
3	R135482	4	Ring	-
4	R131809	6	Gasket	-
5	19M8637	12	Capscrew	-
6	24M7346	12	Washer	-





4MFW Turbocharger & Mounting

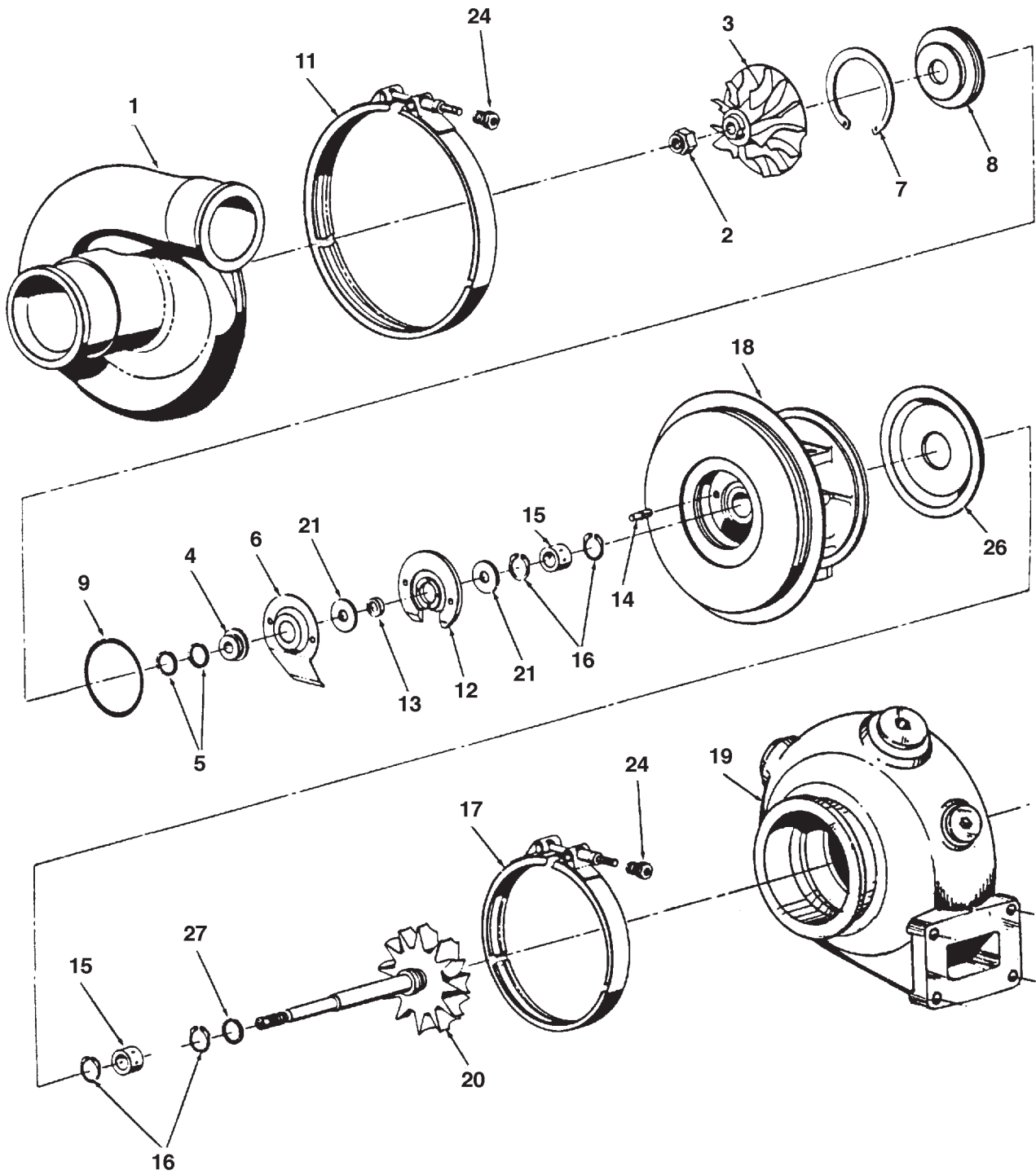


A-10194 / D-3699

## 4MFW Turbocharger &amp; Mounting

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	30-34833	1	Turbocharger	-
2	11-34804	1	Gasket	-
3	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA)	-
4	15-00302	8	Helical Lock Washer 3/8	-
5	14-00818	4	Hex Nut M10 x 1.5 S/S (15 mm Hex)	-
6	13-00335	4	Stud 3/8-16 x 3/8-24 x 1-1/4" (1 - 3/4" LOA)	-
7	15-00804	4	Wave Washer M10	-
8	14-05001	4	Hex Nut 3/8-24, Stainless Steel	-
9	21-12803	1	Male Connector, Steel 3/4 NPT x 3/4 - 37T	-
10	27-19712	1	Tube Assembly, Turbo Coolant Supply	-
11	21-12803	1	Male Connector, Steel 3/4 NPT x 3/4 - 37T	-
12	21-15001	1	Male Elbow, 90° Steel, 3/4 NPT x 3/4 - 37T (Tapped for Vent Cock)	-
13	21-10001	1	Drain Cock, Brass 1/8 NPT	-
14	27-19713	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 Steel, 3/8 NPT x 3/8 - 37T	-
21	27-39702	1	Tube Assembly, Turbo Oil Supply	-
22	21-00015	1	Male Elbow 90°, Steel 1/4 NPT x 3/8 - 37T	-
24	12-00315	2	Capscrew, Hex Head 3/8 - 16 x 1 - 3/4"	-
25	11-31013	1	Gasket, Turbo Oil Return	-
26	31-74800	1	Adapter, Turbo Oil Return	-
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	27-39703	1	Tube Assembly, Turbo Oil Return	-

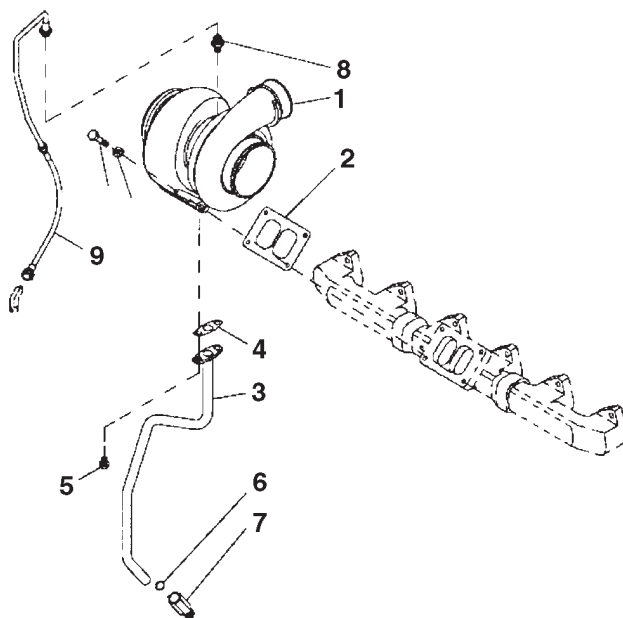
Schwitzer Turbocharger Assembly 4MFW



## Schwitzer Turbocharger Assembly 4MFW

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	30-34833	1	Turbocharger (ID tag# 199383)	-
•	30-00025	1	Repair Kit (30-34833)	-
•	30-04809	1	Cartridge Assembly (includes keys 2-9, 12-16, 18, 20, 21, 26-27)	-
1	30-04802	1	Compressor Cover	-
2	30-04803	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	-

## Turbocharger Assembly



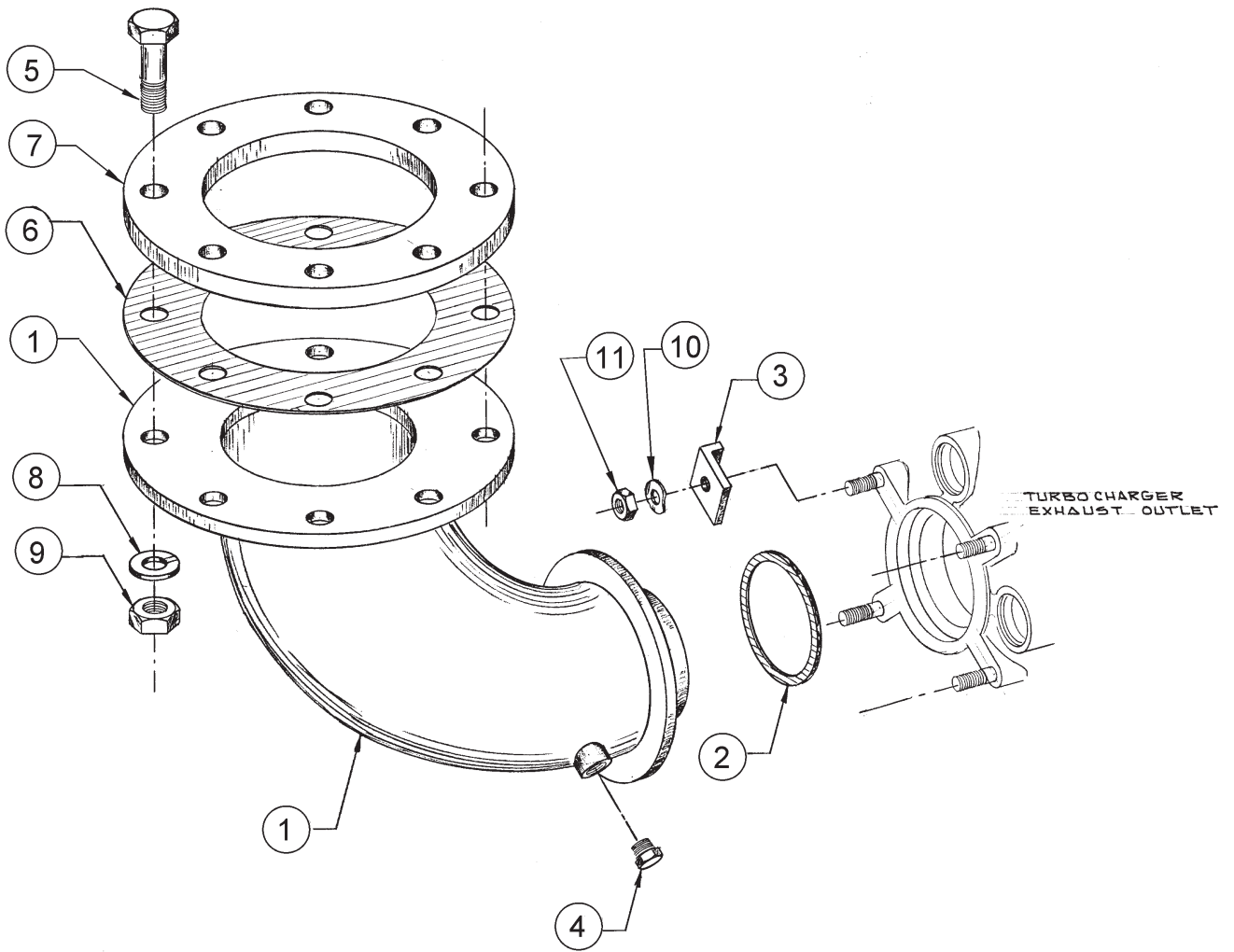
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RGP7891

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE508019	1	Turbocharger (marked RE507022)	-
2	R520685	1	Gasket	-
3	RE65198	1	Oil Line	-
4	R105346	1	Gasket	-
5	CC22170	2	Screw	-
6	R72328	1	O-ring	-
7	R41285	1	Adapter Fitting	-
8	A4925R	1	Adapter Fitting	-
9	RE66525	1	Oil Line	-
10	24M7239	4	Washer	-
11	R127941	4	Capscrew	-

Dry Exhaust Elbow - 5" & 6"

L1276 with 4MFW

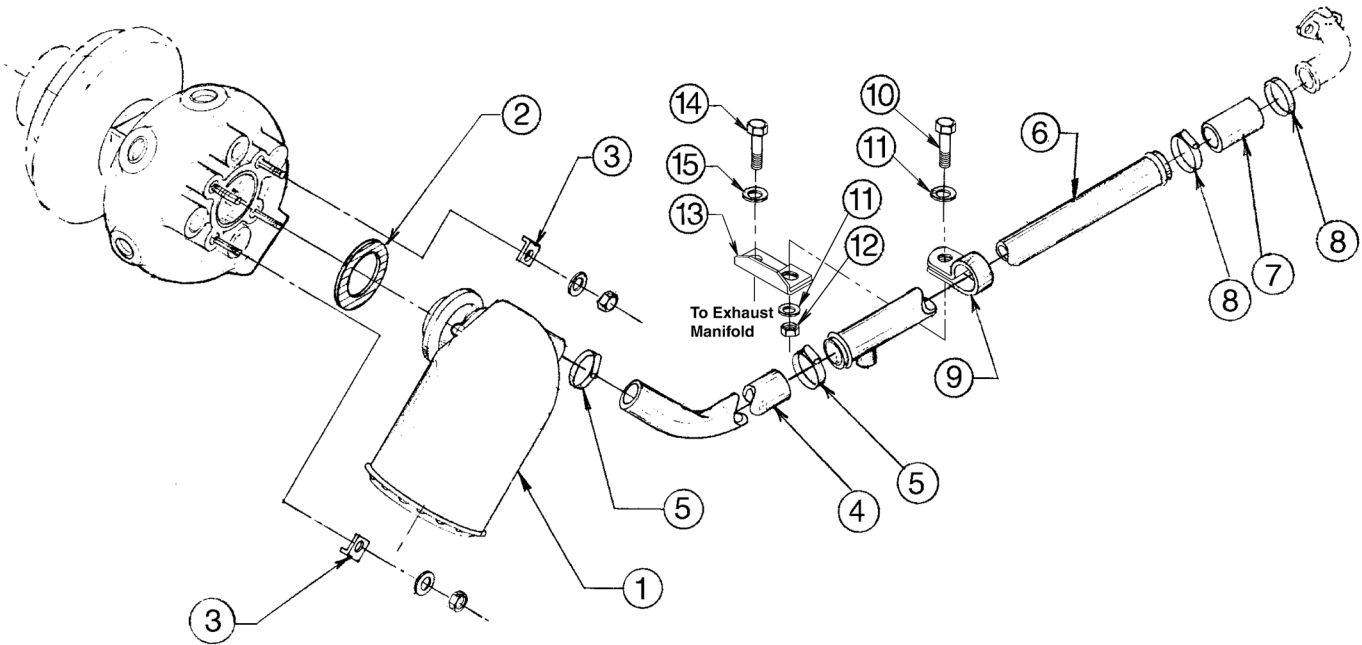


A-5148, A-4708 / C-2497A

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	-

Wet Exhaust Elbow - 6" & 8"

L- M1276

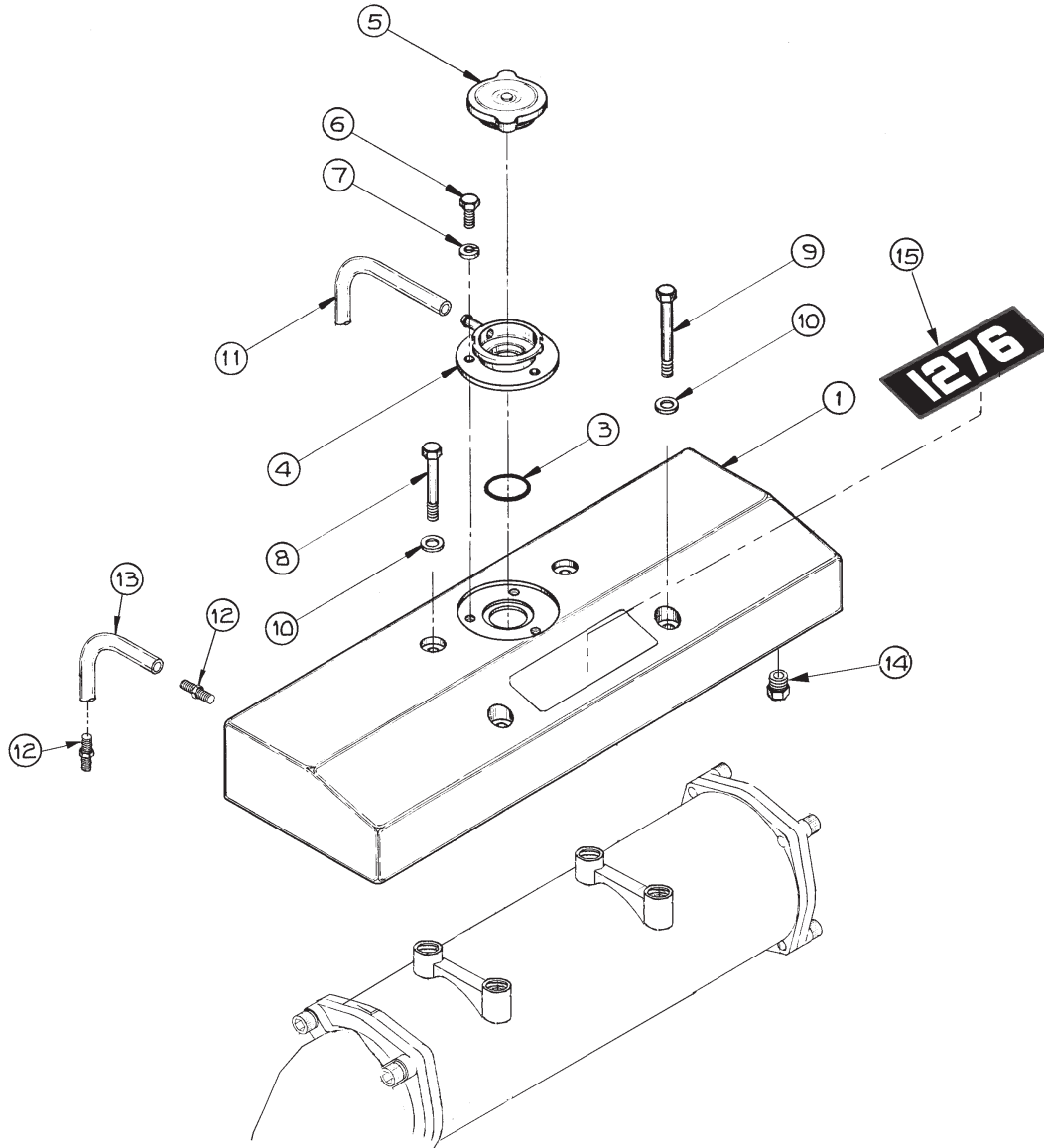


A-10464, A-10463 / B-8989

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-30050	1	6" Wet Exhaust Elbow (formerly #27-34821)	-
	27-30051	1	8" Wet Exhaust Elbow (formerly #27-35009)	-
2	11-34808	1	Gasket, Turbo Exhaust Outlet	-
3	00-30005	4	Clip, Exhaust Elbow Mtg.	-
4	41-14801	24"	Hose 1-5/8" ID (6" Elbow)	-
	41-01109	24"	Hose 2" ID (8" Elbow)	-
5	19-00032	2	Hose Clamp #32 (6" Elbow)	-
	19-00036	2	Hose Clamp #36 (8" Elbow)	-
6	27-19606	1	Tube, Raw Water Discharge	-
	27-05005	1	Tube, Raw Water Discharge	-
7	18-11026	1	Hose, 2" ID x 4" 2 Ply	-
8	19-00036	2	Hose Clamp #36	-
9	19-14801	1	Adelle Clamp 1- 9/16" ID x 1/2" Stud (6" Elbow)	-
	19-60000	1	Adelle Clamp 2- 1/6" ID x 1/2" Stud (8" Elbow)	-
10	12-00954	1	Capscrew, Hex Head M12 x 1.75 x 35 mm	-
11	15-00007	2	Flat Washer M12	-
12	14-00830	1	Nylock Nut M12 x 1.75	-
13	23-19710	1	Bracket	-
14	12-00911	1	Capscrew, Hex Head M12 x 1.75 x 20 mm	-
15	15-00912	1	Lock Washer M12	-



**Expansion Tank Assembly**



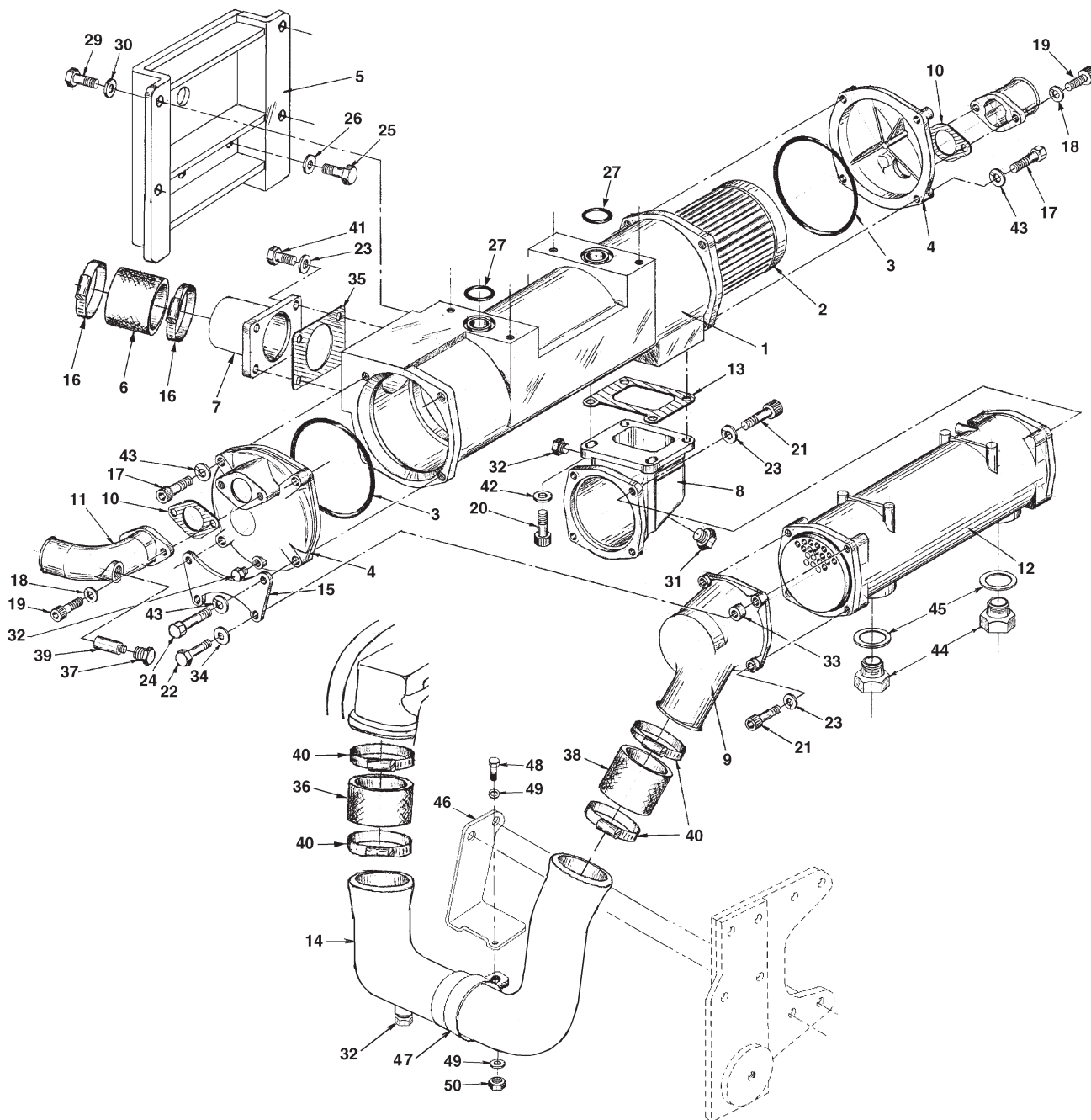
A-10195 / C-5439

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-15008	1	Expansion Tank (Former # 10-19702)	-
2	16-15006	2	O-ring	-
3	16-14804	1	O-ring	-
4	10-14811	1	Filler Neck Assembly	-
5	21-10007	1	Filler Cap, 7 PSI	-
6	12-00055	3	Capscrew, Socket Head M8 x 1.25 x 20 mm	-
7	15-00702	3	Lock Washer, M8	-
8	12-00070	2	Capscrew, Hex Head M10 x 1.5 x 100 mm	-
9	12-00050	2	Capscrew, Hex Head M10 x 1.5 x 85 mm	-
10	15-00805	4	Flat Washer, M10	-
11	41-01013	42"	Hose 5/16" ID x 7/16" OD Polyvinyl	-
12	21-74406	2	Male Connector, Steel 1/4 NPT x 1/4- 37T	-
13	27-19714	1	Vent Tube Assembly	-
14	21-19703	1	Plug, Socket Head Steel, 3/4 OR Port	-
15	00-09701	1	Nameplate "1276"	-
16	17-15000	4	Expansion Plug Brass 1-1/2"	-

GROUP 3 - COOLING SYSTEM

Heat Exchanger & Oil Cooler

L1276



A-10196 / D-3711z

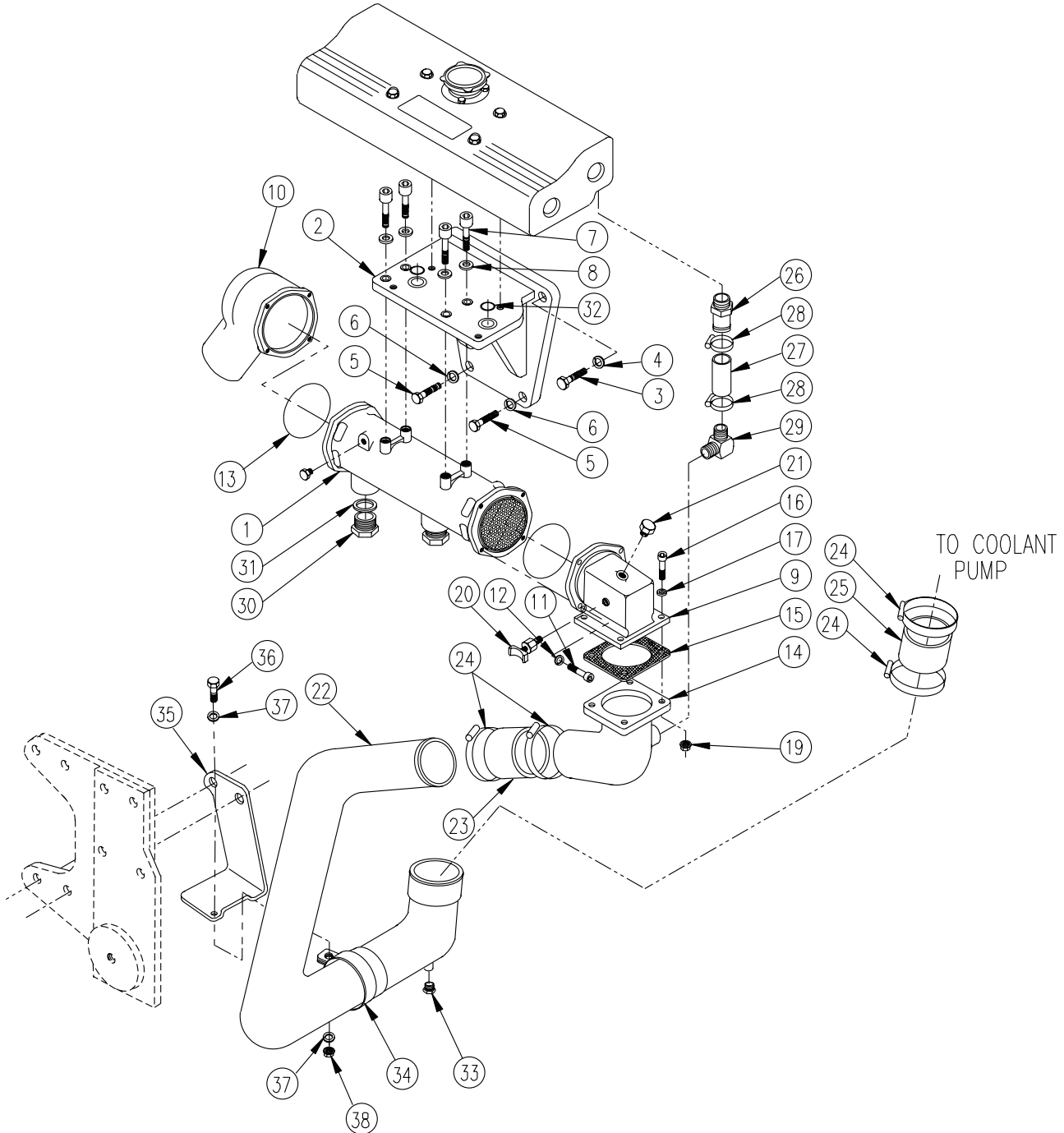
## Heat Exchanger &amp; Oil Cooler

L1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-15004	1	Heat Exchanger Housing	-
2	20-15000	1	Heat Exchanger Element	-
3	16-14802	2	O-ring	-
4	20-14814	2	End Cover	-
5	23-19703	1	Bracket, Heat Exchanger Mtg.	-
6	18-14805	1	Hose, 2- 1/2" ID x 4" 3 Ply Silicone	-
7	27-19705	1	Connector, Heat Exchanger Inlet	-
8	20-14801	1	End Cap	-
9	20-15001	1	End Cap	-
10	11-14804	2	Gasket	-
11	21-15007	1	Elbow, Raw Water Outlet	-
••	20-12802	1	Gear Oil Cooler (includes keys 12, 43-45, & 50)	-
12	10-04802	1	Gear Oil Cooler Housing	-
13	11-14806	1	Gasket	-
14	27-19701	1	Tube, Coolant Pump Outlet	-
15	23-75005	1	Bracket, Gear Oil Cooler Support	-
16	19-01040	2	Hose Clamp #40 Extended Band S/S	-
17	12-00814	6	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
18	15-00801	4	Lock Washer, High Collar M10 S/S	-
19	12-34805	4	Capscrew, Socket Head M10 x 1.5 x 25 mm S/S	-
20	12-34802	8	Capscrew, Socket Head M10 x 1.5 x 30 mm	-
21	12-14802	6	Capscrew, Socket Head M8 x 1.25 x 30 mm	-
22	12-00715	2	Capscrew, Hex Head M8 x 1.25 x 50 mm	-
23	15-00704	10	Lock Washer, M8	-
24	12-00812	2	Capscrew, Hex Head M10 x 1.5 x 40 mm	-
25	12-20913	4	Capscrew, Socket Head M12 x 1.75 x 30mm	-
26	15-04802	4	Lock Washer, M12	-
27	16-15006	2	O-ring	-
29	12-00953	4	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
30	15-00007	4	Flat Washer M12	-
31	21-00530	1	Plug, Brass 1/2 NPT	-
32	21-31624	2	Plug, Brass 1/4 NPT	-
33	21-75015	2	Spacer	-
34	15-00701	6	Flat Washer, M8	-
35	11-15001	1	Gasket	-
36	18-19702	1	Hose, 3" ID x 3-1/2" 3 Ply Silicone	-
37	21-10000	1	Plug, Brass 1/2 NPT x 7/16 - 14	-
38	18-75001	1	Hose, 2-7/8" ID x 3-1/2"	-
39	21-10010	1	Zinc	-
40	19-01048	4	Hose Clamp	-
41	12-00753	4	Capscrew, Hex Head M8 x 1.25 x 30 mm	-
42	15-00805	4	Flat Washer, M10	-
43	15-00804	8	Wave Washer, M10	-
44	31-14802	2	Bushing, 1-1/4 BSP x 3/4 NPT	-
45	11-14807	2	Gasket	-
46	23-19712	1	Bracket, Tube Support	-
47	19-71002	1	Adelle Clamp 2-3/4" I.D.	-
48	12-00903	1	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
49	15-00007	2	Flat Washer M12	-
50	14-00830	1	Nylock Nut M12 x 1.75	-

# Gear Oil Cooler Assembly

L1276 Keel Cooled



## Gear Oil Cooler Assembly

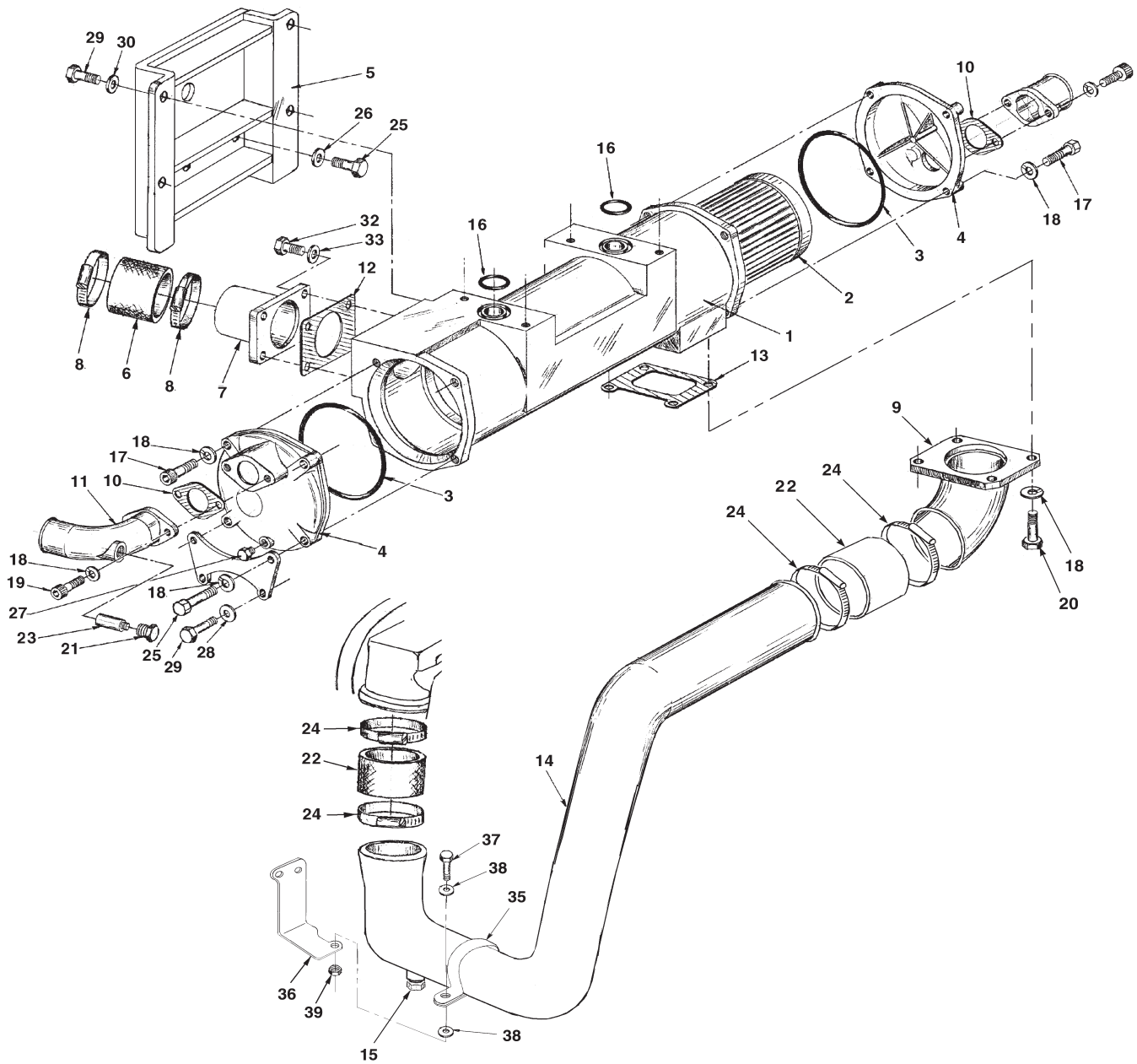
L1276 Keel Cooled

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	20-12802	1	Gear Oil Cooler	-
2	23-19705	1	Bracket, Expansion Tank & Gear Oil Cooler	-
3	12-00832	2	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
4	15-00802	2	Lock Washer, Helical M10	-
5	12-00953	1	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
6	15-00912	2	Lock Washer, Helical M12	-
7	12-00055	4	Capscrew, Socket Head M8 x 1.25 x 20 mm	-
8	15-00704	4	Lock Washer, Hi-collar M8	-
9	20-14801	1	End Cover, Gear Oil Cooler Outlet	-
10	20-15001	1	End Cover	-
11	12-14802	8	Capscrew, Socket Head M8 x 1.25 x 30 mm	-
12	15-00704	8	Lock Washer, Hi-collar M8	-
13	16-64801	2	O-ring	-
14	27-19707	1	Tube, Gear Oil Cooler Outlet	-
15	11-19701	1	Gasket	-
16	12-64801	4	Capscrew, Socket Head M10 x 1.5 x 35 mm	-
17	15-00805	4	Flat Washer M10	-
19	14-00815	4	Lock Nut, Flanged M10 x 1.5	-
20	21-10002	1	Drain Cock, Brass	-
21	21-00530	1	Plug, Hex Head Brass 1/2 NPT	-
22	27-19706	1	Tube, Gear Oil Cooler Outlet	-
23	41-01141	4	Hose, 2 -3/4" ID 3 Ply Silicone	-
24	19-01048	4	Hose Clamp #48	-
25	41-01151	4	Hose, 3" ID 3 Ply Silicone	-
26	21-19702	1	Male Connector, Steel 3/4 OR Port x 1" HB	-
27	41-01052	6.5"	Hose, 1" ID 3 Ply Silicone	-
28	19-01016	2	Hose Clamp #16	-
29	21-12806	1	Male Elbow, 90° Steel 3/4 NPT x 1" HB	-
30	31-14802	2	Bushing, Steel 1 -1/4 BSPP x 3/4 NPT	-
31	11-14807	2	Gasket	-
32	16-15006	2	O-ring	-
33	21-31624	1	Plug, Hex Head Brass, 1/4 NPT	-
34	19-71002	1	Adelle Clamp	-
35	23-19712	1	Bracket, Tube Support	-
36	12-00903	1	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
37	15-00007	2	Flat Washer, M12	-
38	14-00830	1	Nylock Nut, M12 x 1.75	-

GROUP 3 - COOLING SYSTEM

Heat Exchanger

M1276



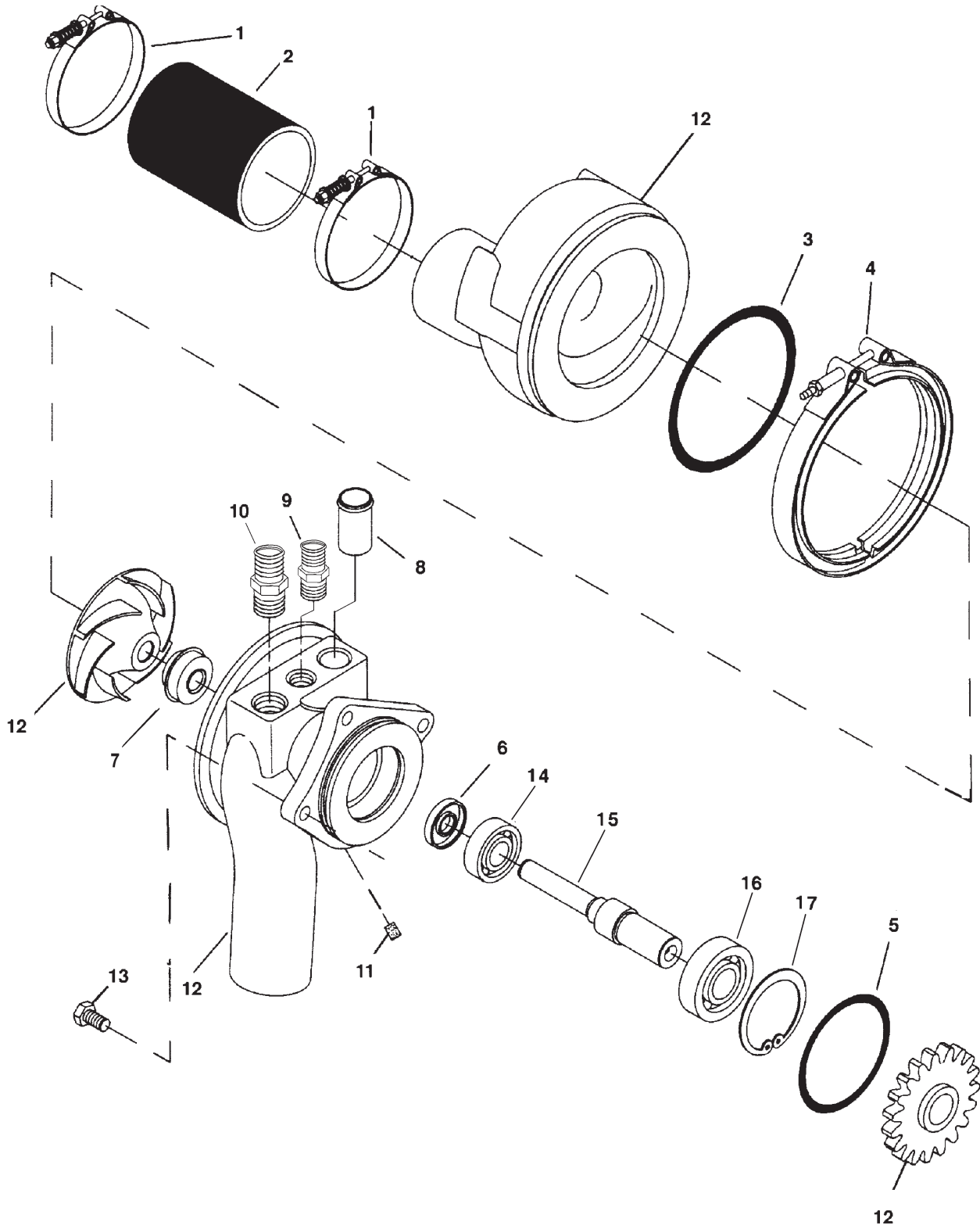
A-10197 / D-3711a

## Heat Exchanger

M1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-15004	1	Heat Exchanger Housing	-
2	20-15000	1	Heat Exchanger Element	-
3	16-14802	2	O-ring	-
4	20-14814	2	End Cover, Heat Exchanger	-
5	23-19703	1	Bracket, Heat Exchanger Mounting	-
6	18-14805	1	Hose, 2 - 1/2" ID x 4" 3 Ply Silicone	-
7	27-19705	1	Connector, Heat Exchanger Inlet	-
8	19-01040	2	Hose Clamp #40	-
9	27-19707	1	Connector, Heat Exchanger & Gear Oil Cooler	-
10	11-14804	2	Gasket	-
11	21-15007	1	Elbow, Raw Water Outlet	-
12	11-15001	1	Gasket	-
13	11-19701	1	Gasket	-
14	27-19703	1	Tube, Heat Exchanger Outlet	-
15	21-10002	1	Drain Cock 1/4 NPT	-
16	16-15006	2	O-Ring	-
17	12-64801	8	Capscrew, Socket Head M10 x 1.5 x 35 mm	-
18	15-00801	10	Lock Washer, Hi-collar M10 S/S	-
19	12-34805	2	Capscrew, Socket Head M10 x 1.5 x 25 mm S/S	-
20	12-34802	8	Capscrew, Socket Head M10 x 1.5 x 30 mm	-
21	21-10000	1	Plug, Hex Head Brass 1/2 NPT	-
22	18-75001	1	Hose 2 - 7/8" ID x 3 - 1/2" Silicone	-
23	21-10010	2	Zinc Anode 5/8" OD x 2" x 7/16 - 14T (not shown)	-
24	19-01048	4	Hose Clamp #48 Extended Band	-
25	12-00831	6	Capscrew, Hex Head M10 x 1.5 x 25 mm	-
26	15-00802	4	Lock Washer, Helical M10	-
27	21-31624	3	Plug, Hex Head Brass 1/4 NPT	-
28	15-00007	4	Flat Washer M12	-
29	12-00953	4	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
31	21-00530	1	Plug, Hex Head Brass 1/2 NPT	-
32	12-00753	4	Capscrew, Hex Head M8 x 1.25 x 30 mm	-
33	15-00702	4	Lock Washer M8	-
34	15-35401	4	Washer M8 Special	-
35	19-71002	1	Adelle Clamp	-
36	23-19712	1	Bracket, Tube Support	-
37	12-00903	1	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
38	15-00007	2	Flat Washer M12	-
39	14-00830	1	Nylock Nut, M12 x 1.75	-

Coolant Pump



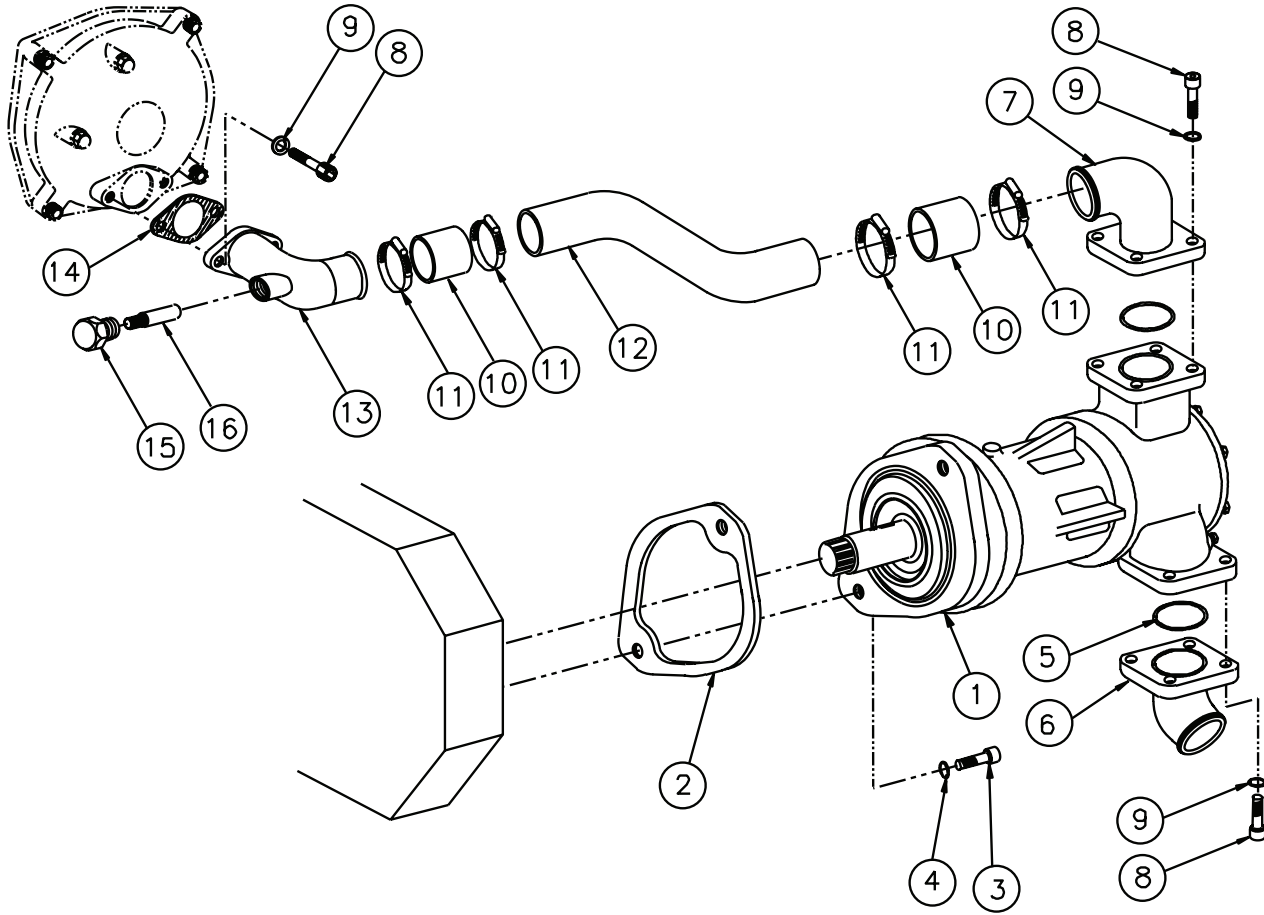


## Coolant Pump

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE503603	1	Water Pump (includes keys #3 - 12, marked R502052)	-
1	RE52702	2	Clamp	-
2	R117080	1	Radiator Hose	-
3	16-19702	1	O-ring (formerly #E52687)	-
4	R121187	1	Clamp	-
5	16-19701	1	O-ring (formerly #R56757)	-
6	RE39134	1	Seal	-
7	RE68707	1	Seal Kit (includes keys #3, 5, 6)	-
8	R57503	1	Tube	-
9	21-31616	1	Male Connector, Steel 1/2 NPT x 3/4" Hose Barb	-
10	21-19704	1	Male Connector, Brass 3/4 NPT x 1" Hose Barb	-
11	R100369	1	Filter	-
12		1	Housing (not available separately)	-
13	19M7785	3	Screw	-
14	JD10363	1	Ball Bearing	-
15	R116644	1	Shaft (8-1/2" OD)	-
16	JD10362	1	Ball Bearing	-
17	R71228	1	Ring	-

# Raw Water Pump and Mounting

L-M1276



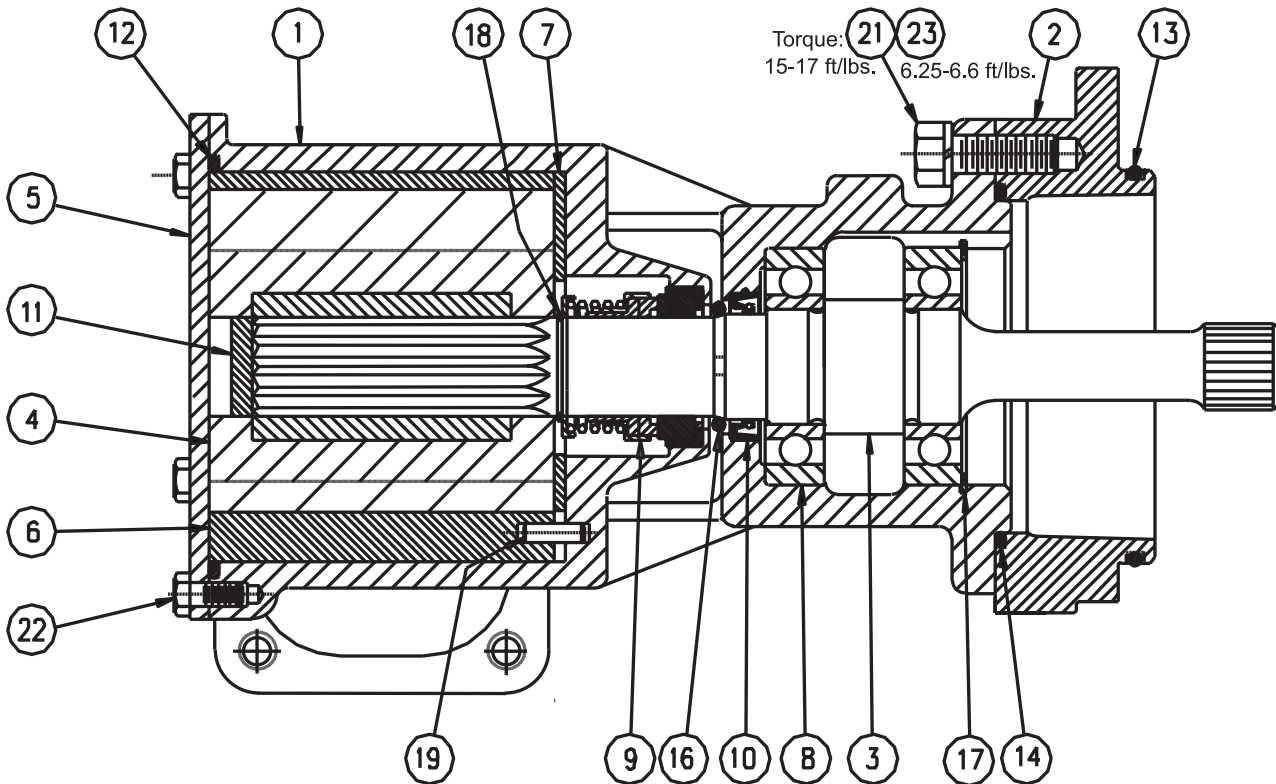
A-10200/ D-3912

## Raw Water Pump and Mounting

L-M1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	25-19723	1	Raw Water Pump (see parts detail) former # 25-19701 *	-
2	R501137	1	Gasket	-
3	12-20913	2	Capscrew, Socket Head M12 x 1.75 x 30 mm	-
4	15-04802	2	Lock Washer, Hi-collar M12	-
5	16-15401	2	O-ring	-
6	21-15005	1	Connector, Raw Water Pump Inlet	-
7	21-15032	1	Elbow, Raw Water Pump Outlet	-
8	12-34805	10	Capscrew, Socket Head M10 x 1.5 x 25 mm S/S	-
9	15-00801	10	Lock Washer, Hi-collar M10 S/S	-
10	18-21018	2	Hose, 2" ID x 3-1/2" 3 Ply Silicone	-
11	19-01032	4	Hose Clamp #32	-
12	27-19715	1	Tube, Raw Water Pump Outlet	-
13	21-15007	1	Elbow, Raw Water Outlet	-
14	11-14804	1	Gasket	-
15	21-10000	1	Plug, Hex Head Brass 1/2 NPT	-
16	21-10010	1	Zinc Anode 5/8" OD x 2"	-
			* Complete Pump 25-19701 No Longer Available. See parts detail for service spares.	

# Raw Water Pump Assembly



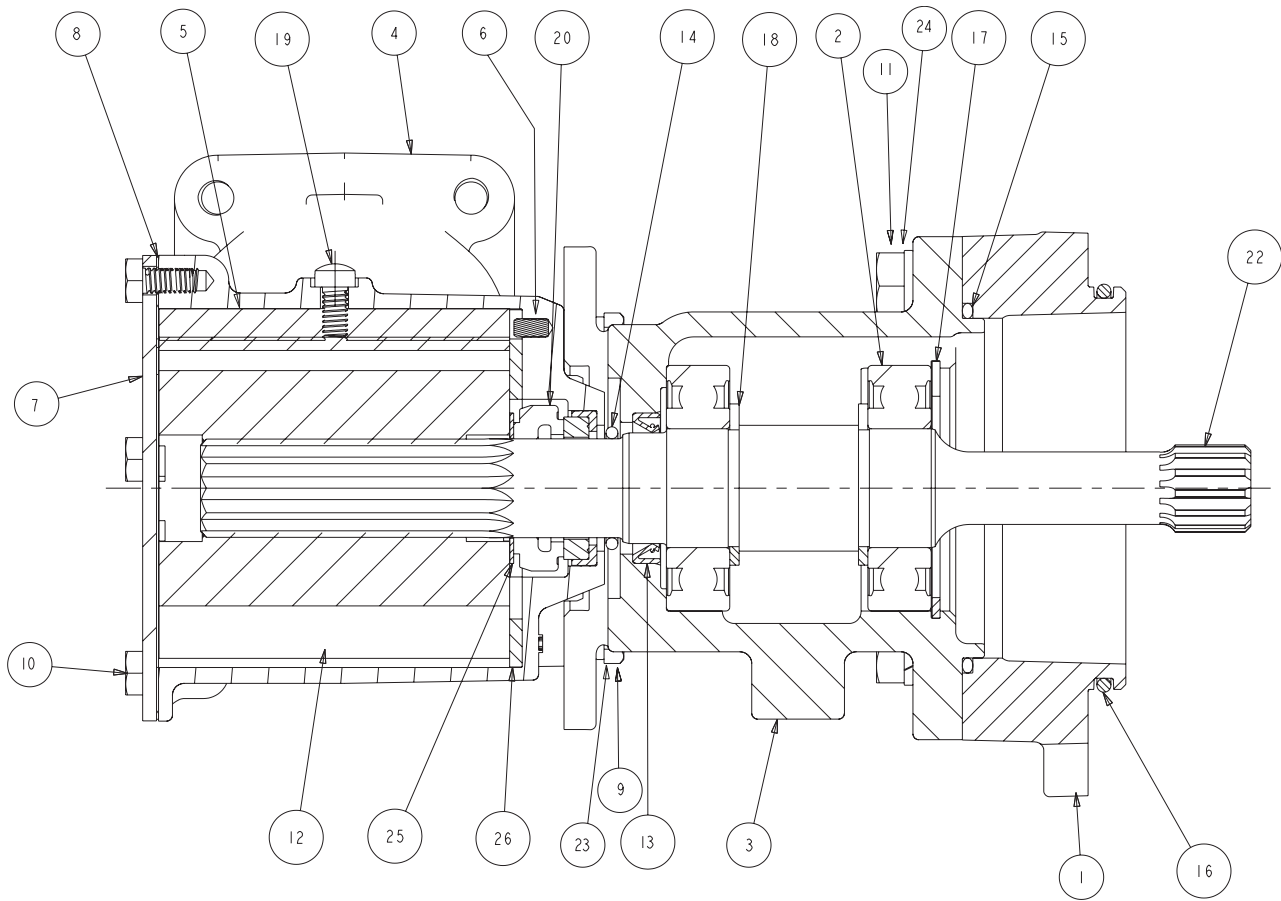
A-10670/ 14070-0101jabsco

## Raw Water Pump Assembly

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	25-19701	1	Raw Water Pump Assembly (includes all keys)	-
1	25-19702	1	Housing	-
2	25-19703	1	Flange	-
3	25-19704	1	Shaft	-
4	25-15003	1	Impeller	-
5	25-19706	1	End Cover	-
6	25-19707	1	Cam	-
7	25-19708	1	Wear Plate	-
8	25-19709	2	Bearing	-
9	25-19711	1	Seal, Mechanical	-
10	25-15014	1	Bearing Seal, Inner	-
11	25-19712	1	Seal, Spline	-
12	25-19713	1	O-ring	-
13	25-19714	1	O-ring	-
14	25-19716	1	O-ring	-
15	25-19717	2	O-ring	-
16	25-19718	1	O-ring	-
17	25-19719	1	Snap Ring, Internal	-
18	25-19721	1	Snap Ring, External	-
19	25-19722	1	Dowel Pin	-
20	21-31624	2	Plug, Hex Head Brass 1/4 NPT	-
21	12-09832	6	Capscrew, Hex Head M10 x 1.5 x 30 mm S/S	-
22	12-00098	6	Capscrew, Hex Head 1/4-20 x 1/2" S/S	-
23	15-00808	6	Lock Washer, Helical M10 S/S	-

GROUP 3 - COOLING SYSTEM

Raw Water Pump Assembly

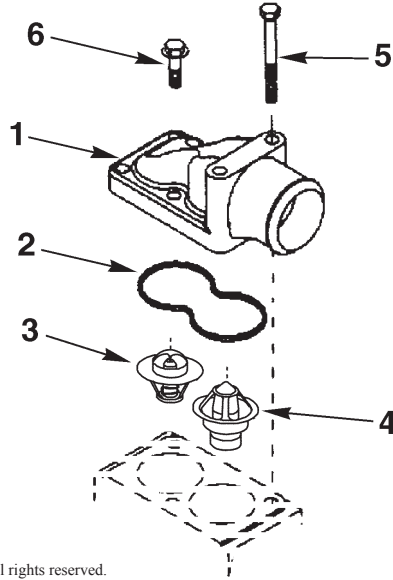


A-10670/ 14070-0101jabsco

## Raw Water Pump Assembly

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	25-19723		Raw Water Pump (includes all keys)	-
•	25-19710		Repair Kit (includes keys 2,5,7,12,13,14,15,16,20,26)	-
1	25-19703	1	Flange	-
2	34-65011	2	Ball Bearing	-
3	25-19726	1	Bearing Housing	-
4	25-19724	1	Housing	-
5	25-15010	1	Cam	-
6	25-19728	1	Dowel Pin	-
7	25-19731	1	End Cover	-
8	25-14803	1	Gasket	-
9	25-19731	4	Capscrew, Hex Head M10 x 1.5 x 30 mm Grade 8.8	-
10	12-09097	5	Capscrew, Hex Head M6 x 1.0 x 12 mm S/S (316)	-
11	12-00832	6	Capscrew, Hex Head M10 x 1.5 x 30 mm Grade 8.8	-
12	25-15003	1	Impeller Kit with Spline & Cover O-Ring Seals	-
13	25-15014	1	Bearing Seal, Inner	-
14	25-15049	1	O-ring	-
15	25-19716	1	O-ring	-
16	25-19714	1	O-ring	-
17	25-19734	1	Snap Ring, Internal	-
18	25-15021	2	Snap Ring	-
19	25-19736	1	Machine Screw, Cheese Head 1/4 - 20 x 1/2 " S/S	-
20	25-19737	1	Mechanical Seal (Carbon / Ceramic)	-
22	25-19727	1	Shaft, Raw Water Pump	-
23	25-19741	4	Spring Washer	-
24	25-19742	6	Spring Washer	-
25	25-19743	1	Support Washer	-
26	25-14817	1	Wear Plate	-

**Thermostats & Cover Assembly, Aluminum**

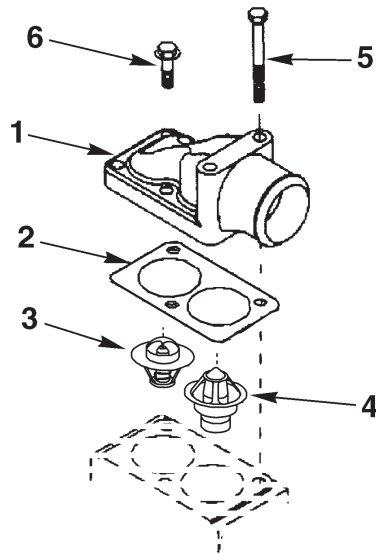


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RGP9151

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE502571	1	Cover	-
2	R136151	1	Seal	-
3	RE33705	1	Thermostat, 180°F	-
4	AR102258	1	Thermostat	-
5	12-80049	2	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm	-
6	19M7784	3	Capscrew, Hex Head Flanged M10 x 1.5 x 20 mm	-

**Thermostats & Cover Assembly, Cast Iron**



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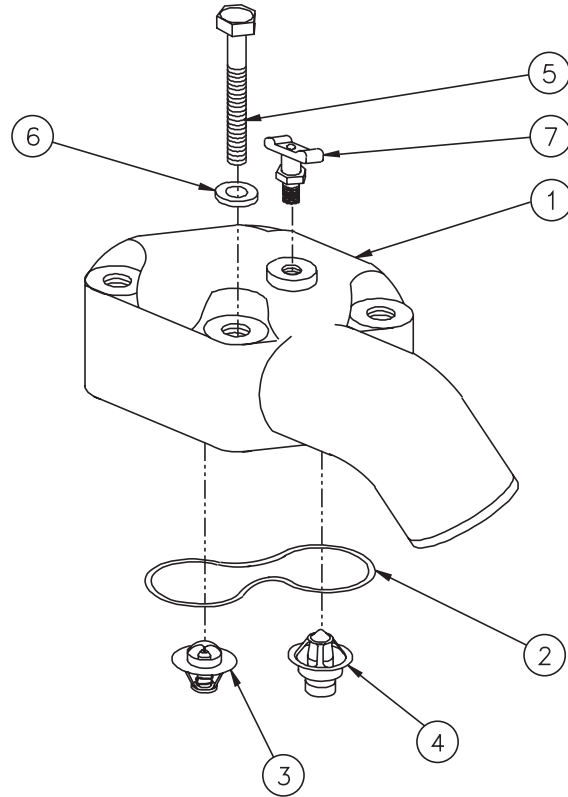
RGP9151a

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R89439	1	Cover, Iron	-
2	R133142	1	Gasket	-
3	RE33705	1	Thermostat, 180°F	-
4	AR102258	1	Thermostat	-
5	19M7811	2	Capscrew, Hex Head Flanged M10 x 1.5 x 90 mm	-
6	12-80832	3	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm	-



**Thermostats & Cover Assembly**

Keel Cooled Units

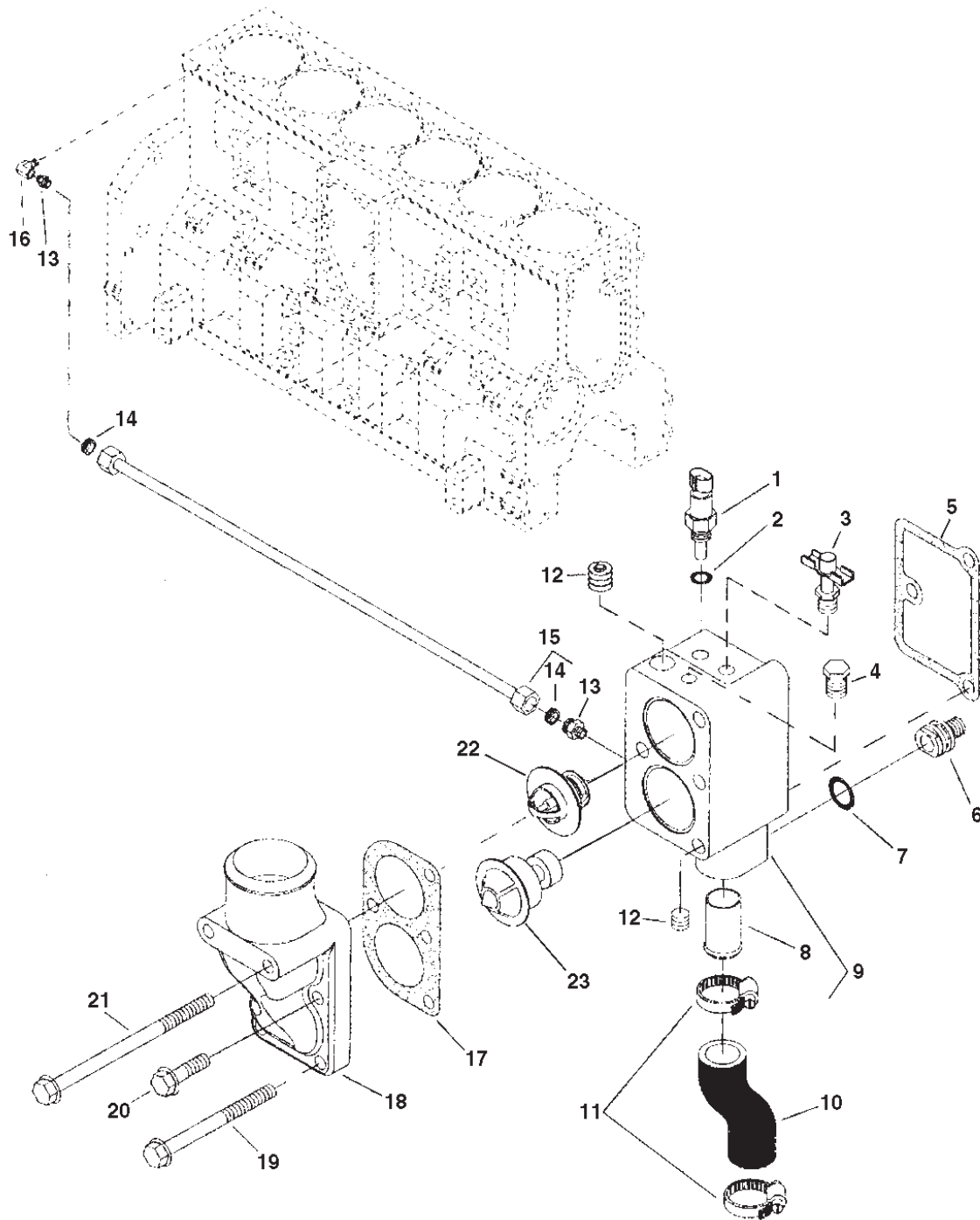


A-10199/ B-8026

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-19701	1	Cover	-
2	R136151	1	Seal	-
3	RE33705	1	Thermostat, 180°F	-
4	AR102258	1	Thermostat	-
5	12-00048	4	Capscrew, Hex Head M10 x 1.5 x 60 mm	-
6	15-00802	4	Lock Washer, Helical M10	-
7	21-10002	1	Drain Cock, Brass 1/4 NPT	-

# Thermostat Housing

NL1276



## Thermostat Housing

NL1276

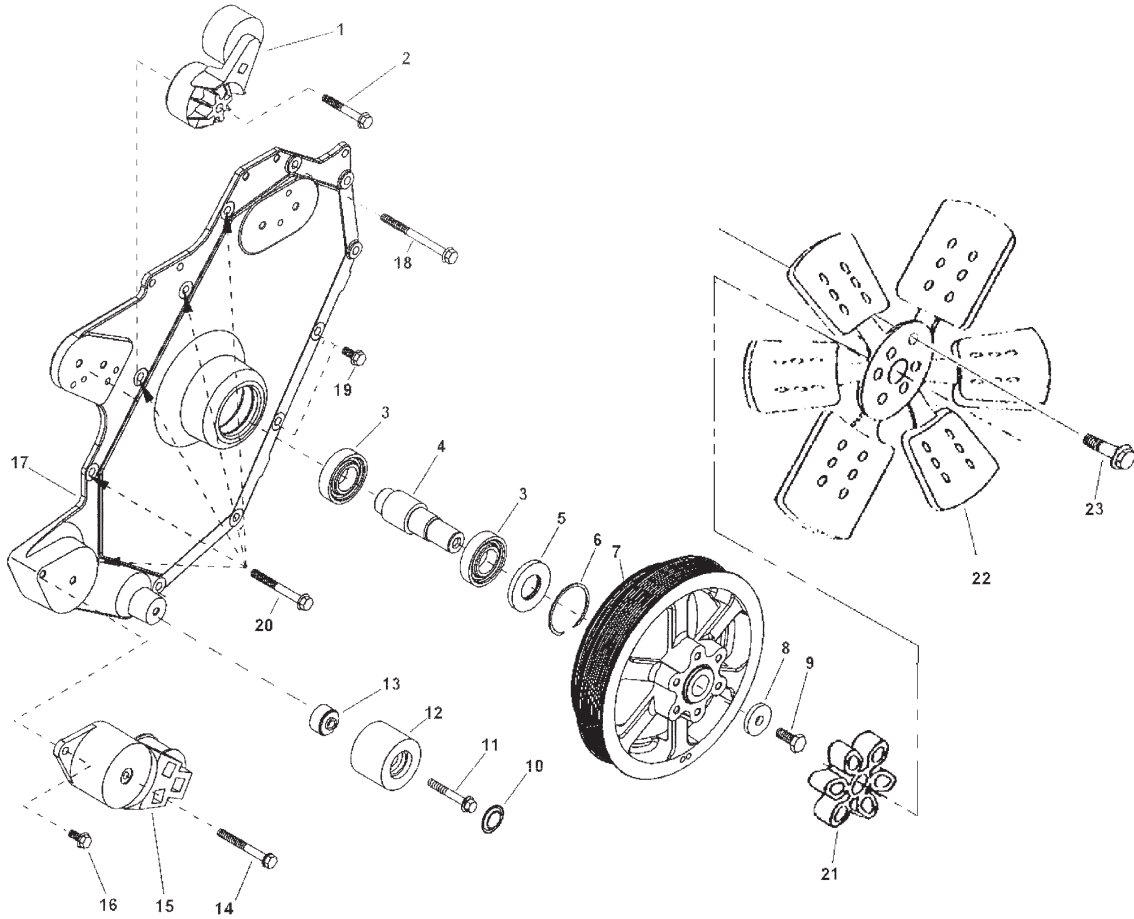
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE48419	1	Sensor	-
2	16-00005	1	O-ring	-
3	AT13740	1	Drain Valve	-
4	R55233	**	Pipe Plug	-
5	R116205	1	Gasket	-
6	R121443	1	Adapter Fitting	-
7	R56464	1	O-ring	-
8	R57503	1	Tube	-
9	RE501605	1	Housing (marked R116204 or R501050)	-
10	R121427	1	Radiator Hose	-
11	TY22466	2	Clamp	-
12	RE57836	2	Pipe Plug	-
13	R51133	1	Fitting	-
14	R67092	2	Sealing Washer	-
15	RE58336	1	Line	-
16	T11370	1	Elbow Fitting	-
17	R133142	1	Gasket	-
18	R89439	1	Cover (Cast Iron)	-
	RE502571	1	Cover (Aluminum)	-
19	19M7944	2	Capscrew, M10 x 120 mm (use with #R89439 cover)	-
	19M7812	2	Capscrew (use with #RE502571 cover)	-
20	19M7835	1	Capscrew, M10 x 35 mm (use with #R89439 cover)	-
21	19M8598	1	Capscrew, M10 x 170 mm (use with #R89439 cover)	-
	19M9017	1	Capscrew (use with #RE502571 cover)	-
22	RE33705	1	Thermostat, 180°F/ 82°C	-
23	AR102258	1	Thermostat, 180°F/ 82°C	-

\*\*As required

GROUP 3 - COOLING SYSTEM

Fan & Drive Assembly

NL1276

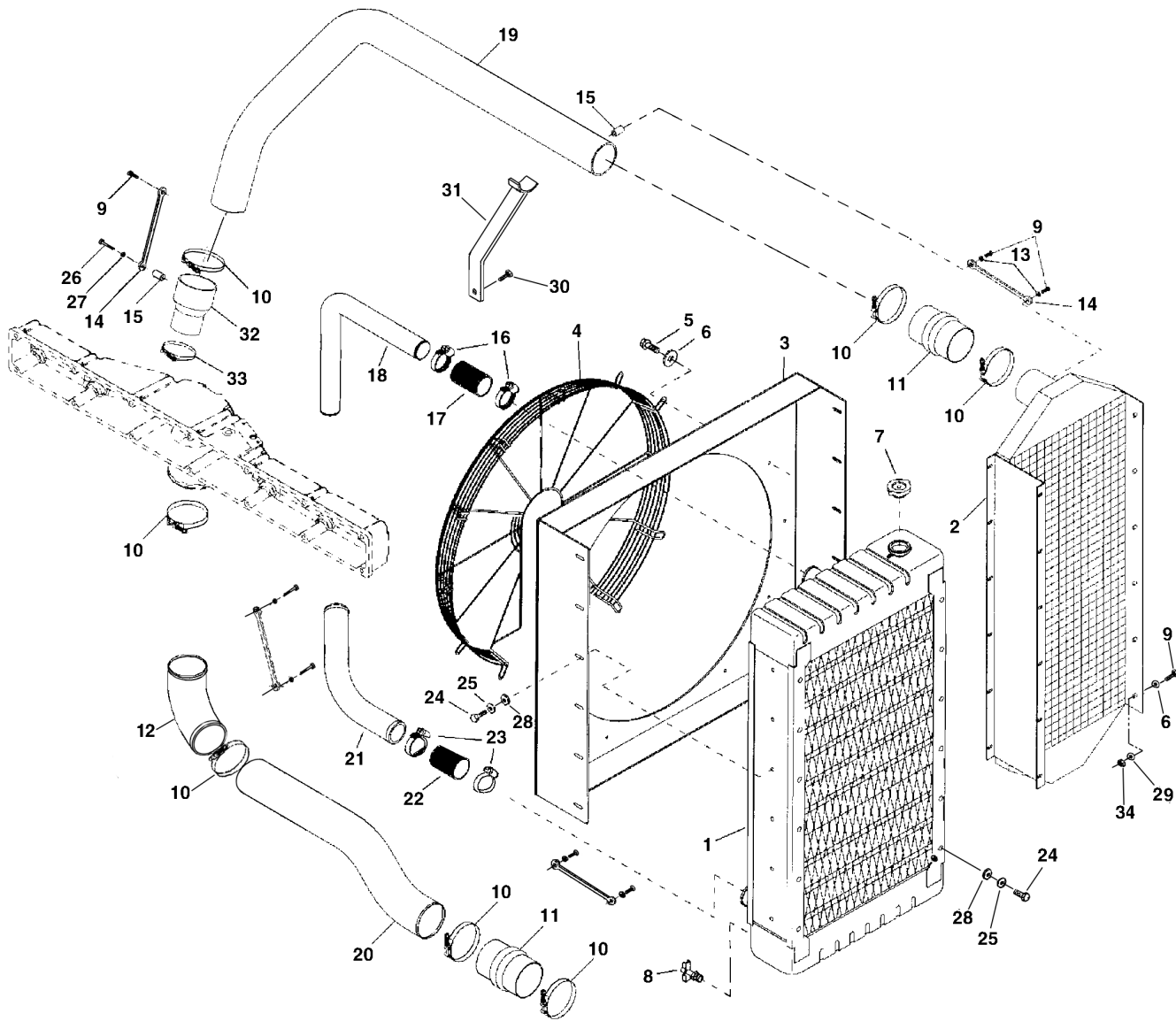


## Fan &amp; Drive Assembly

NL1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE170084	1	Belt Tensioner	-
2	19M7810	1	Screw	-
3	JD10329	2	Ball Bearing	-
4	R63987	1	Shaft	-
5	RE20768	1	Seal	-
6	R62191	AR	Snap Ring	-
	R62192	AR	Snap Ring	-
	R62193	AR	Snap Ring	-
	R62194	AR	Snap Ring	-
7	R132956	1	Pulley	-
8	T20217	1	Washer	-
9	19H1815	1	Cap Screw	-
10	R99590	1	Cover	-
11	19M8114	1	Screw	-
12	RE501133	1	Idler	-
13	R500320	1	Spacer	-
14	19M7811	1	Screw	-
15	RE170083	1	Tightener	-
16	19M7785	1	Scrwew	-
17	R502659	1	Cover	-
18	19M7836	1	Screw	-
19	19M7786	2	Screw	-
20	19M7812	6	Screw	-
29	RE521472	1	Fan (Blower) 42"	-
30	R134199	1	Fan Spacer	-
31	01436-01070	1	Cap Screw, Hex Head Flanged M10 x 1.5 x 170mm	-

**Radiator & Charge Air Cooler NL1276H**



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RGP5096&8006

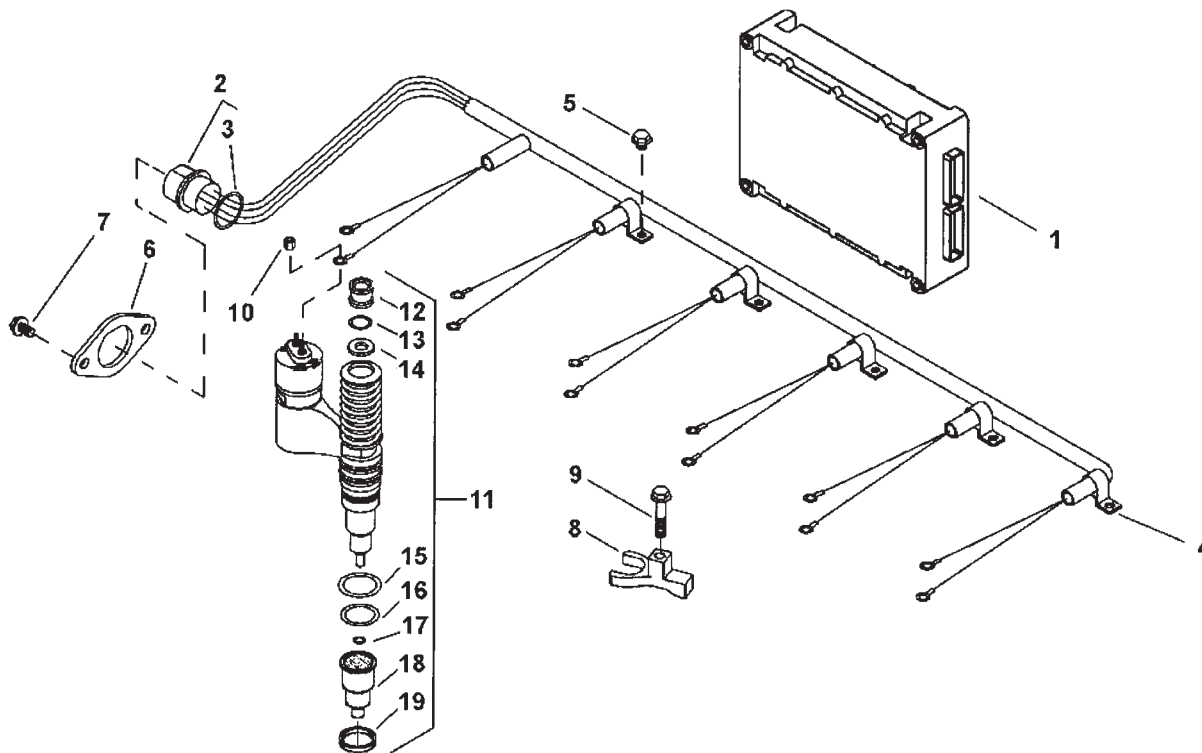
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE68640	1	Radiator	-
2	RE504953	1	Shroud	-
3	RE68638	1	Air Cooler	-
4	RE504405	1	Guard	-
5	19H3411	11	Screw, 3/8 x 1-1/8"	-
6	24H1309	11	Washer, 13/32 x 1-1/16"	-
7	RE500726	1	Filler Cap	-
8	AT13740	1	Drain Valve	-
9	19H1900	15	Capscrew, 5/16 x 3/4"	-

## Radiator &amp; Charge Air Cooler NL1276H

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
10	RE52703	8	Clamp, Constant Tension	-
11	RE500365	2	Hose, Reinforced	-
12	R133207	1	Hose, 90° Molded	-
13	24H1243	6	Washer	-
14	AW19033	2	Strap	-
15	B28400	2	Bushing	-
16	19-00052	4	Hose Clamp #52	-
17	R122290	1	Hose	-
18	R520444	1	Tube, Radiator Inlet	-
19	RE521454	1	Tube, Charge Air Cooler Inlet	-
20	RE522418	1	Tube, Charge Air Cooler Outlet	-
21	R518750	1	Tube, Radiator Outlet	-
22	R117080	1	Hose	-
23	19-00044	4	Hose Clamp #44	-
24	12-00212	18	Screw, 5/16- 18 x 1"	-
25	15-00202	18	Lock Washer, 5/16"	-
26	19M8538	1	Capscrew, M6 x 45 mm	-
27	24M7054	1	Washer	-
28	15-00211	18	Flat Washer, 5/16	-
29	15-00302	6	Lock Washer, 3/8	-
30	19M7788	2	Screw, M12 x 25 mm	-
31	R134200	1	Bracket	-
32	R500495	1	Hose	-
33	RE52702	1	Clamp, Constant Tension	-
34	14-00311	6	Nut, 3/8	-
35	39-19701	1	Crossmember, Radiator & Charge Air Cooler	-
	12-00514	4	Capscrew, Hex Head 1/2-13 x 1-1/2"	-
	15-00501	8	Flat Washer 1/2"	-
	15-00502	4	Lock Washer, Helical 1/2"	-
	14-00511	4	Hex Nut 1/2-13	-
36	39-19702	2	Side Panel, Radiator & Charge Air Cooler	-
	12-00414	6	Capscrew, Hex Head 7/16- 14 x 1-1/2"	-
	15-00401	12	Flat Washer 7/16	-
	15-00402	6	Lock Washer, Helical 7/16	-
	14-00412	6	Hex Nut, Nylock 7/16-14	-
37	39-19703	1	Top Panel	-
38	39-19704	1	Front Cover/ Air Duct Adapter	-
	12-00212	22	Capscrew, Hex Head 5/16-18 x 1"	-
	15-00211	44	Flat Washer 5/16	-
	15-00202	22	Lock Washer Helical 5/16	-
	14-00213	22	Hex Nut 5/16-18	-
39	23-19716	2	Brace	-
40	23-19718	2	Bracket	-
	12-00314	4	Capscrew, Hex Head 3/8- 16 x 1-1/2"	-
	15-00301	8	Flat Washer 3/8"	-
	15-00302	4	Lock Washer Helical 3/8	-
	14-00311	4	Hex Nut 3/8- 16	-

GROUP 4 - FUEL SYSTEM

**Electronic Unit Injectors & Controller**



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RGP8231

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	26-99701	1	Engine Control Unit 24 V, 340 Hp @1800 RPM (marked RE507981)	-
2	RE508984	1	Wiring Harness	-
3	R56461	1	O-ring	-
4	R128315	5	Clamp	-
5	19M7864	5	Screw	-
6	R124676	1	Bracket	-
7	19M7865	2	Screw, M8 x 16	-
8	R505747	1	Clamp	-
9	R501390	1	Capscrew, M8 x 50 mm	-
10	R134920	12	Nut	-
11	RG33957	6	Electronic Unit Injector (remanufactured, marked RE504468 or RE505262, includes key #9)	-
12	R133654	1	Socket	-
13	R133653	1	Packing	-
14	R133655	1	Pad	-
15	R133651	1	Packing	-
16	R502703	1	Packing	-
17	R502171	1	Packing	-
18	RE531334	1	Sleeve (formerly #RE518339)	-
19	T122075	1	O-ring	-



## Fuel Injector Applications

<i>Model</i>	<i>Rating</i>	<i>Injector</i>
L1276A	340 Hp @ 1800 RPM	RG33957
L1276A2	340 Hp @ 1800 RPM	RG33966
L1276A2	425 Hp @ 2100 RPM	RG33967
L1276A2	525 Hp @ 2100 RPM	RG33967
M1276A	185 kW @ 1500 RPM	RG33967
M1276A1	200 kW @ 1500 RPM	RG33967
M1276A1	235 kW @ 1800 RPM	RG33967
M1276A2	230 kW @ 1500 RPM	RG33967
M1276A2	280 kW @ 1800 RPM	RG33967
NL1276H1	285 kW @ 1800 RPM	RG33967
NL1276H2	450 Hp @ 1800 RPM	RG33967
NL1276H3	330 Hp @ 1800 RPM	RG33967

**GROUP 4 - FUEL SYSTEM**

**Engine Control Unit Applications**

**Propulsion Units** - (Serial number must be provided when ordering)

*L1276A*

26-99701 340 Hp @ 1800 RPM 24 Volt

*L1276A2*

26-9971012C340 340 Hp @ 1800 RPM 12 Volt

26-9971024C340 340 Hp @ 1800 RPM 24 Volt

26-9971012M425 425 Hp @ 2100 RPM 12 Volt

26-9971024M425 425 Hp @ 2100 RPM 24 Volt

26-9971012H525 525 Hp @ 2100 RPM 12 Volt

26-9971024H525 525 Hp @ 2100 RPM 24 Volt

**Generator Units** - (Serial number must be provided when ordering)

*M1276A*

26-99710245185 185 kW @ 1500 RPM 24 Volt

*M1276A1*

26-99710245200 200 kW @ 1500 RPM 24 Volt

26-99710246235 235 kW @ 1800 RPM 24 Volt

*M1276A2*

26-99710245230 230 kW @ 1500 RPM 24 Volt

26-99710246280 280 kW @ 1800 RPM 24 Volt

*NL1276H1*

26-99710126315 315 kW @ 1800 RPM 12 Volt

26-99710246315 315 kW @ 1800 RPM 24 Volt

*NL1276H3*

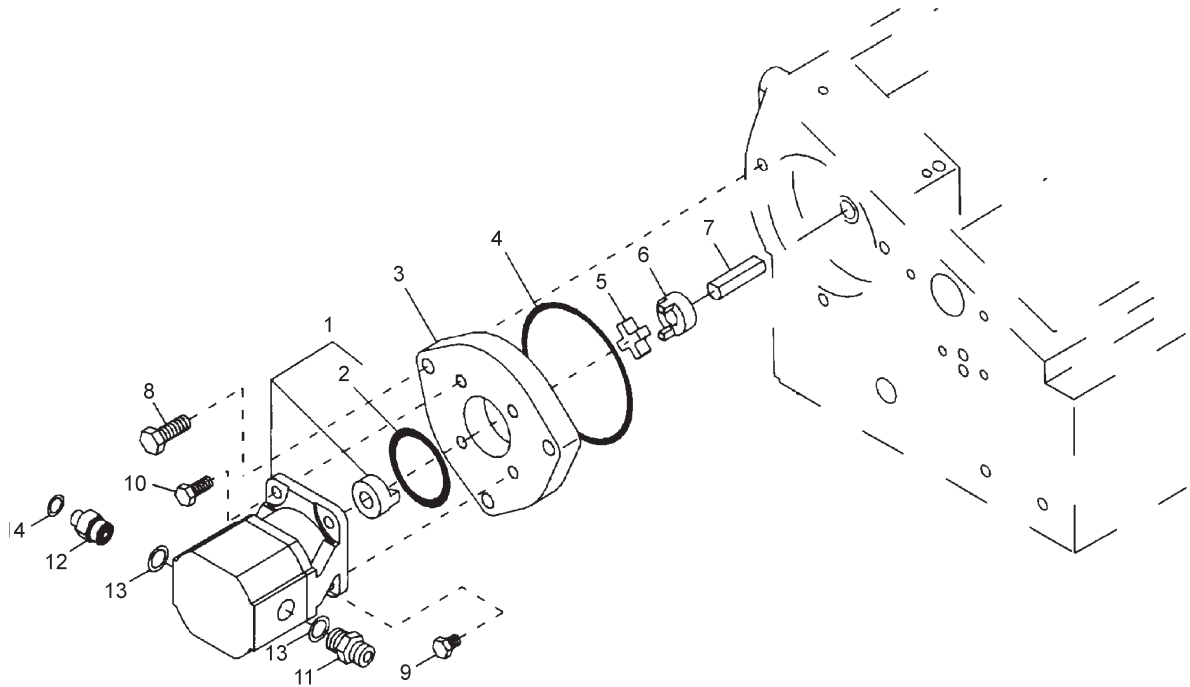
26-99710126400 400 kW @ 1800 RPM 12 Volt

**Marine & Industrial Power Units** - (Serial number must be provided when ordering)

*NL1276H2*

26-9971012H450 450 Hp @ 2100 RPM 12 Volt

Fuel Pump



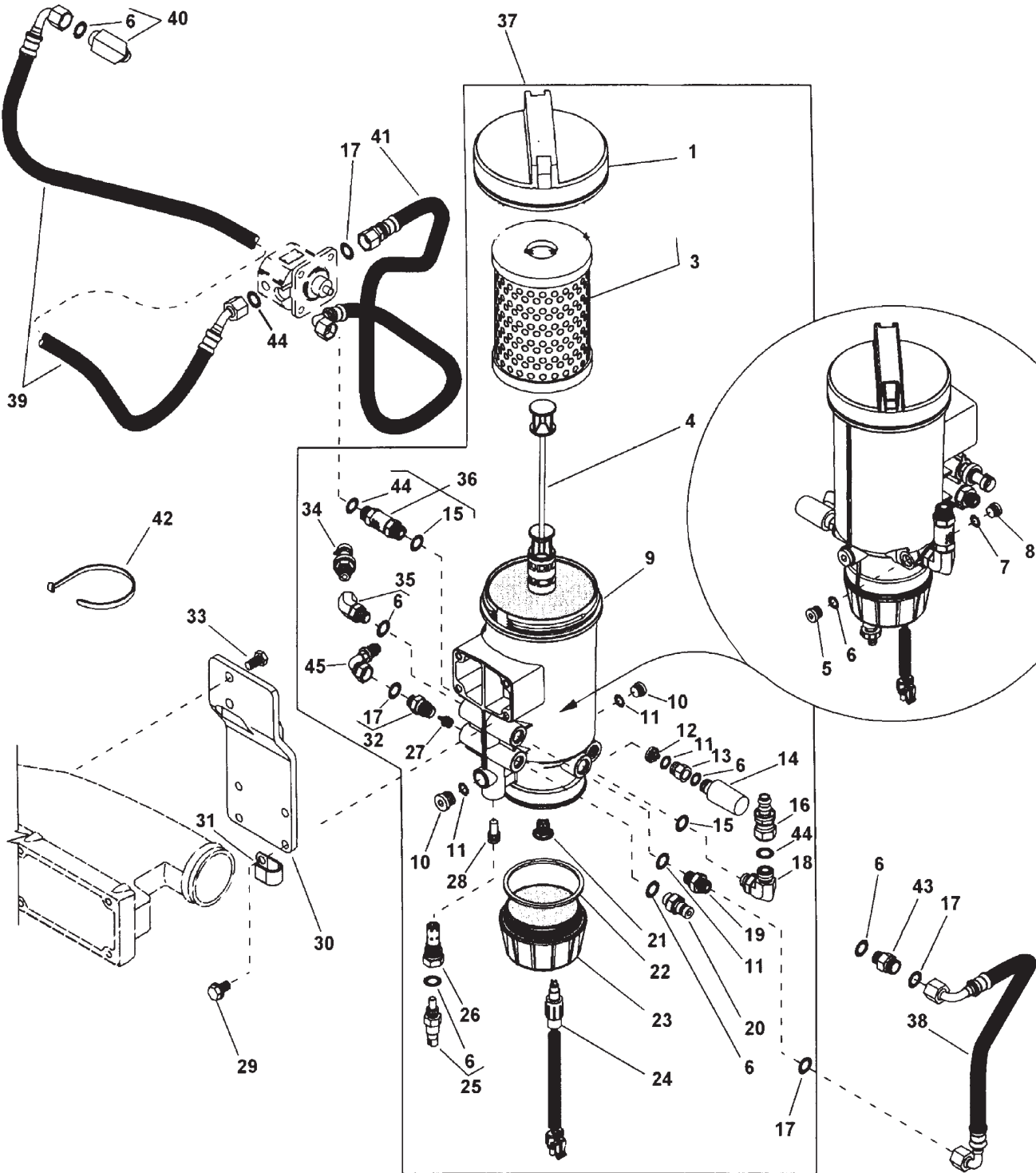
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RGP7517

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R117063	1	Bracket	-
2	R500318	1	O-ring	-
3	R502027	1	Spider	-
4	R117021	1	Coupling	-
5	R117020	1	Pin	-
6		1	Cylinder Head	-
7	19M7865	2	Screw, M8 x 16 (Low)	-
8	21-59701	1	Male Elbow 45° Steel, 3/8 O-ring Port x 1/2 O-ring Face Seal	-
	T77857	1	O-ring	-
9	R26448	3	O-ring	-
10	38H1173	3	Adapter	-
11	T77613	1	O-ring	-
12	19M7867	2	Screw, M8 x 25 (Up)	-
13	19M7835	3	Screw, M10 x 35	-
14	T35580	1	O-ring	-
15	RE502974	1	Fuel Pump	-

# Fuel Filter and Lines

Left hand Mounted



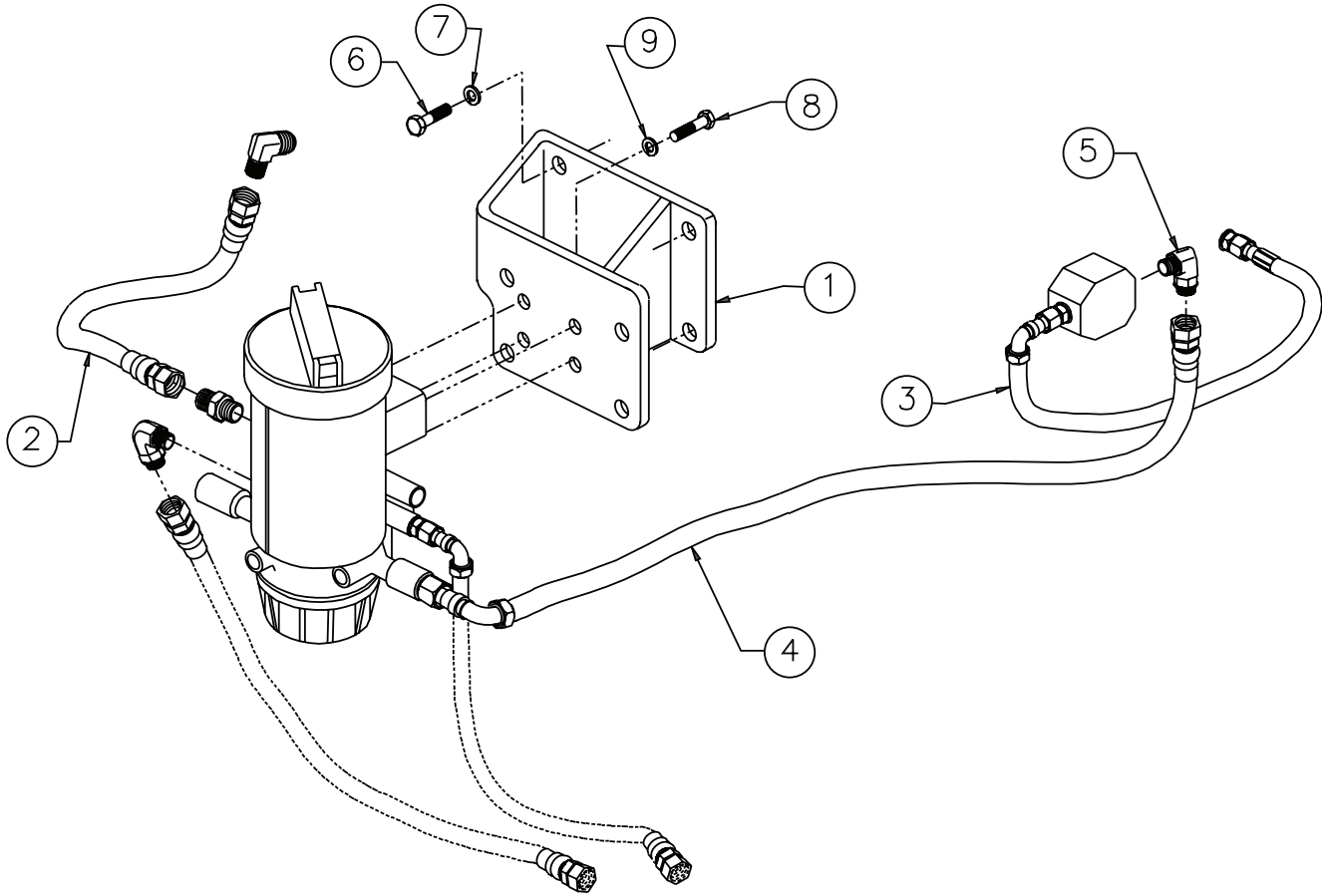
## Fuel Filter and Lines

Left hand Mounted

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R502490	1	Cover	-
3	RE507284	1	Fuel Filter (contains T12275)	-
4	RE504938	1	Tube	-
5	L41709	1	Pipe Plug	-
6	51M7041	6	O-ring	-
7	51M7040	1	O-ring	-
8	L41079	1	Pipe Plug	-
9	RE504493	1	Housing	-
10	T122803	2	Fitting Plug	-
11	51M7042	4	O-ring	-
12	R502704	1	Valve	-
13	RE504939	1	Adapter	-
14	RE65265	1	Hand Primer	-
15	51M7043	2	O-ring	-
16	RE504670	1	Male Connector 1/2" Hose Barb X 1/2 O-Ring Face Seal	-
17	T77613	2	O-ring	-
18	38H5017	1	Elbow Fitting	-
19	38H5037	1	Adapter	-
20	RE12187	1	Receptacle	-
21	RE504498	2	Intake Valve	-
22	R501632	1	Packing	-
23	RE503583	1	Sediment Bowl	-
24	RE503590	1	Sensor (Water in fuel)	-
25	RE48419	1	Sensor (Fuel temperature)	-
26	RE506723	1	Valve	-
27	RE504500	1	Valve	-
28	R502705	1	Insert	-
29	19M7785	4	Screw	-
30	R517250	1	Bracket	-
31	R72853	1	Clamp	-
32	RE504503	1	Fitting	-
33	19M7789	2	Screw	-
34	RE154966	1	Switch (Fuel pressure)	-
35	R504812	1	Elbow Fitting	-
36	RE504499	1	Valve	-
37	RE504494	1	Fuel Filter Assembly (Includes Keys 1-28, 32, 34-36 & 44-45)	-
38	RE504517	1	Fuel Line	-
39	RE504511	1	Fuel Line	-
40	38H5016	1	Elbow Fitting	-
41	RE504518	1	Fuel Line	-
42	R44302	3	Tie Band	-
43	38H5002	1	Adapter	-
44	T77857	2	O-ring	-
45	RE502954	1	Male Elbow 90 Deg 3/8" Hose Barb X 3/8 O-Ring Face Seal	-

**Fuel Filter**

Right hand Mounted



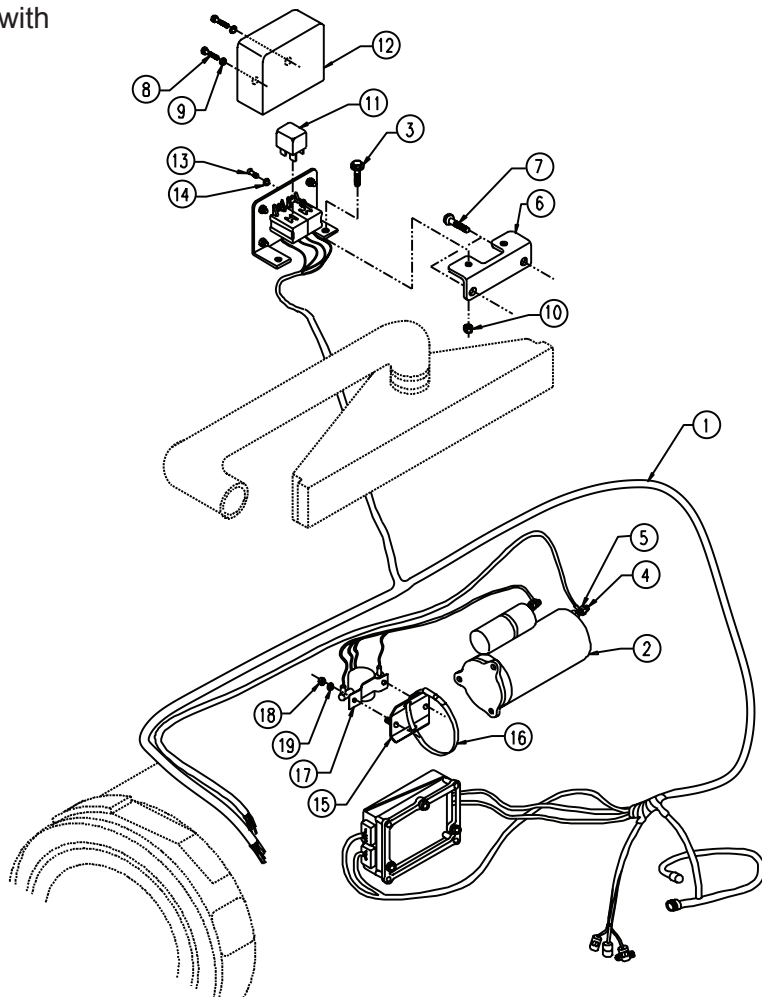
A-11234/ A-12270

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-09713	1	Bracket	-
2	18-59703	1	Hose Assembly, 3/8" I.D. x 11"	-
3	18-59704	1	Hose Assembly, 3/8" I.D. x 16"	-
4	18-59705	1	Hose Assembly, 1/2" I.D. x 46"	-
5	21-59704	1	Male Elbow, 90° Steel, 3/8 O-ring Port	-
6	12-00953	4	Capscrew, Hex Head M12 x 1.75 x 30 mm	-
7	15-00007	4	Flat Washer, M12	-
8	12-00832	4	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
9	15-00805	4	Flat Washer, M10	-



## Engine Electrical Assembly 24V Isolated Ground

Early Production with  
Circuit Breaker &  
Relay Assembly



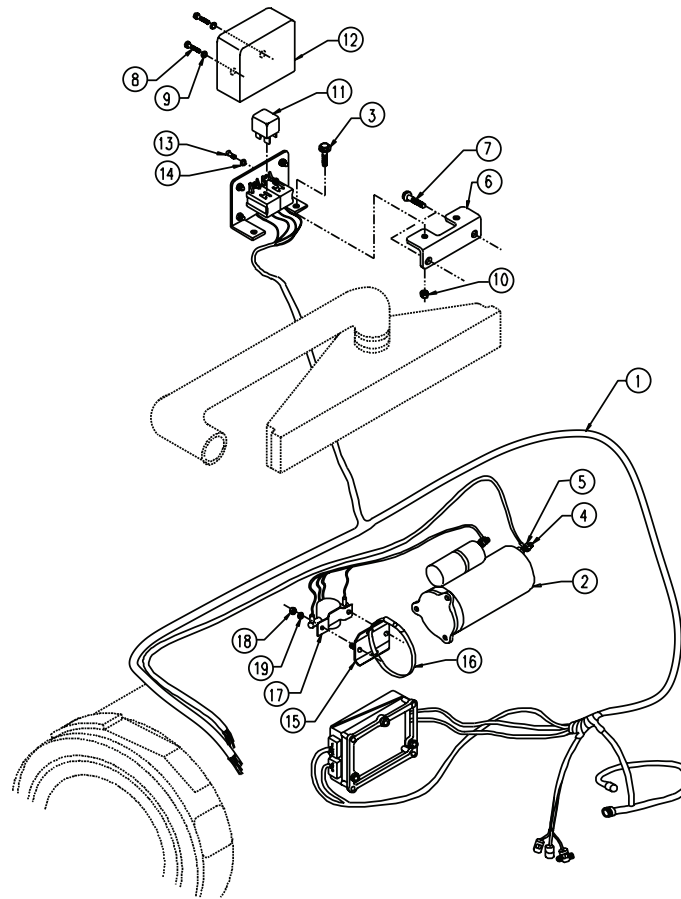
A-10243/ C-5561

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49701	1	Engine Wire Harness	-
2	22-44864	1	Starter 24V Isolated Ground	-
3	19M7813	2	Capscrew, Hex Head Flanged M12 x 1.75 x 45 mm	-
4	42M7029	1	Stud	-
5	14M7299	1	Hex Nut, Flanged M12 x 1.75	-
6	23-49707	1	Bracket	-
7	01435-01220	2	Capscrew, Hex Head Flanged M12 x 1.75 x 20 mm	-
8	12-01131	2	Capscrew, Hex Head M6 x 1.0 x 20 mm	-
9	15-00008	4	Flat Washer M6	-
10	14-04803	2	Hex Nut, Nylock M6 x 1.0	-
11	22-40085	1	Relay, SPDT 24 VDC 20A	-
12	00-44801	1	Cover, Circuit Breaker & Relays	-
13	12-00015	2	Machine Screw, BH Slotted #10-32 x 3/8"	-
14	15-00032	2	Flat Washer #10	-
15	23-40009	1	Bracket	-
16	19-00088	1	Hose Clamp #88	-
17	22-41079	1	Solenoid, 24 VDC 65A N.O. Isolated Ground	-
18	14-00112	2	Hex Nut, Nylock	-
19	15-00121	2	Flat Washer, 1/4" SAE	-
20	AT163022	1	Transient Voltage Protector 24V (not shown)	-
21	22-40212	1	Resistor 390 Ohm 2 Watt (not shown)	-



## Engine Electrical Assembly 12V Isolated Ground

Early Production  
with Circuit Breaker &  
Relay Assembly

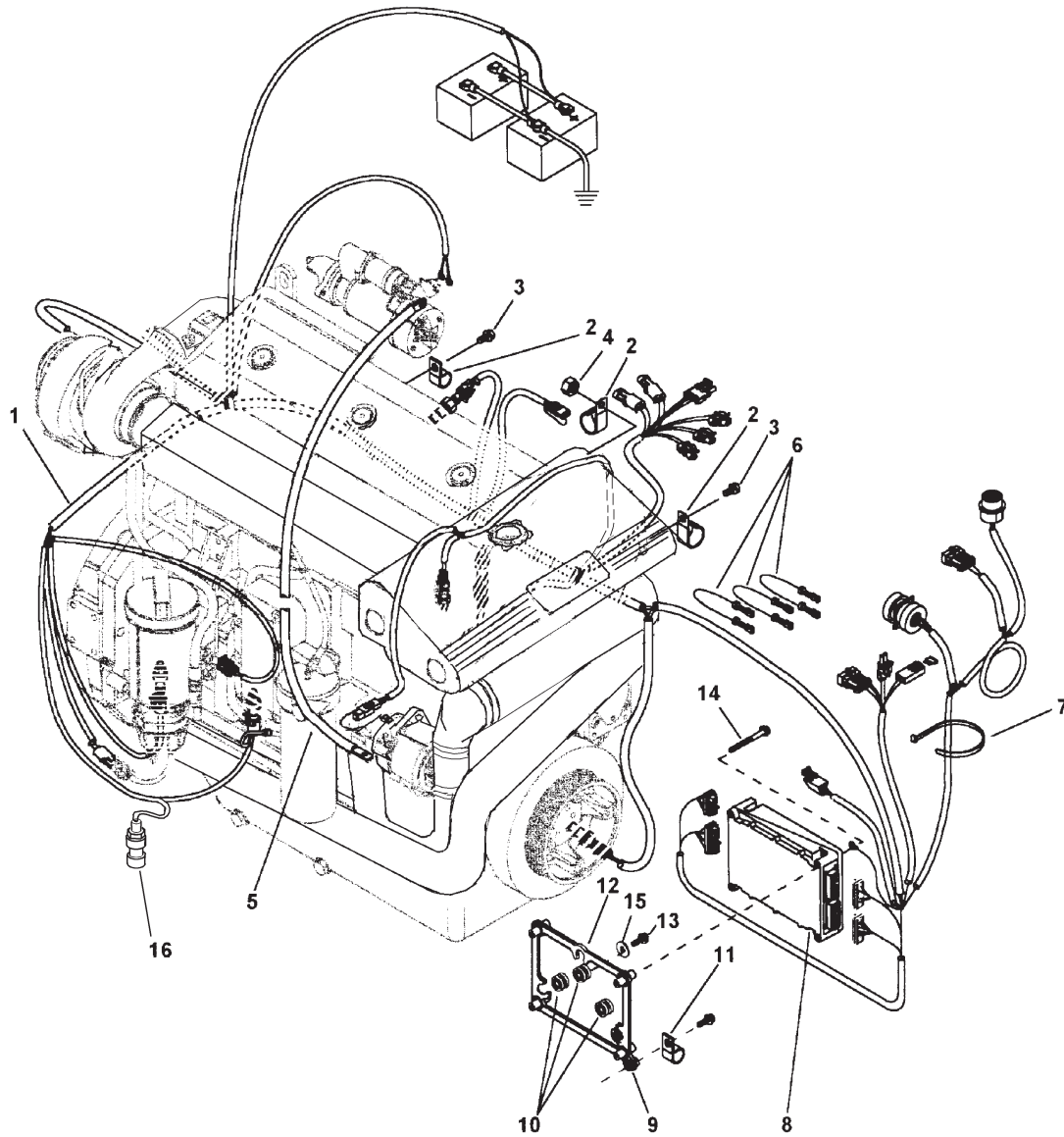


A-10202/ C-5561

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49701	1	Engine Wire Harness	-
2	RE515843	1	Starter 12V Isolated Ground	-
3	19M7813	2	Capscrew, Hex Head Flanged M12 x 1.75 x 45 mm	-
4	42M7029	1	Stud	-
5	14M7299	1	Hex Nut, Flanged M12 x 1.75	-
6	23-49707	1	Bracket	-
7	01435-01220	2	Capscrew, Hex Head Flanged M12 x 1.75 x 20 mm	-
8	12-01131	2	Capscrew, Hex Head M6 x 1.0 x 20 mm	-
9	15-00008	4	Flat Washer M6	-
10	14-04803	2	Hex Nut, Nylock M6 x 1.0	-
11	22-42047	1	Relay, SPDT 12 VDC 50A	-
12	00-44801	1	Cover, Circuit Breaker & Relays	-
13	12-00015	2	Machine Screw, BH Slotted #10-32 x 3/8"	-
14	15-00032	2	Flat Washer #10	-
15	23-40009	1	Bracket	-
16	19-00088	1	Hose Clamp #88	-
17	22-41080	1	Solenoid, 12 VDC 65A N.O. Isolated Ground	-
18	14-00112	2	Hex Nut, Nylock	-
19	15-00121	2	Flat Washer, 1/4" SAE	-
20	AT157679	1	Transient Voltage Protector 12V (not shown)	-
21	22-40212	1	Resistor 390 Ohm 2 Watt (not shown)	-

# Engine Electrical Assembly L1276 12V & 24V

Current Production  
without Circuit Breaker &  
Relay Assembly



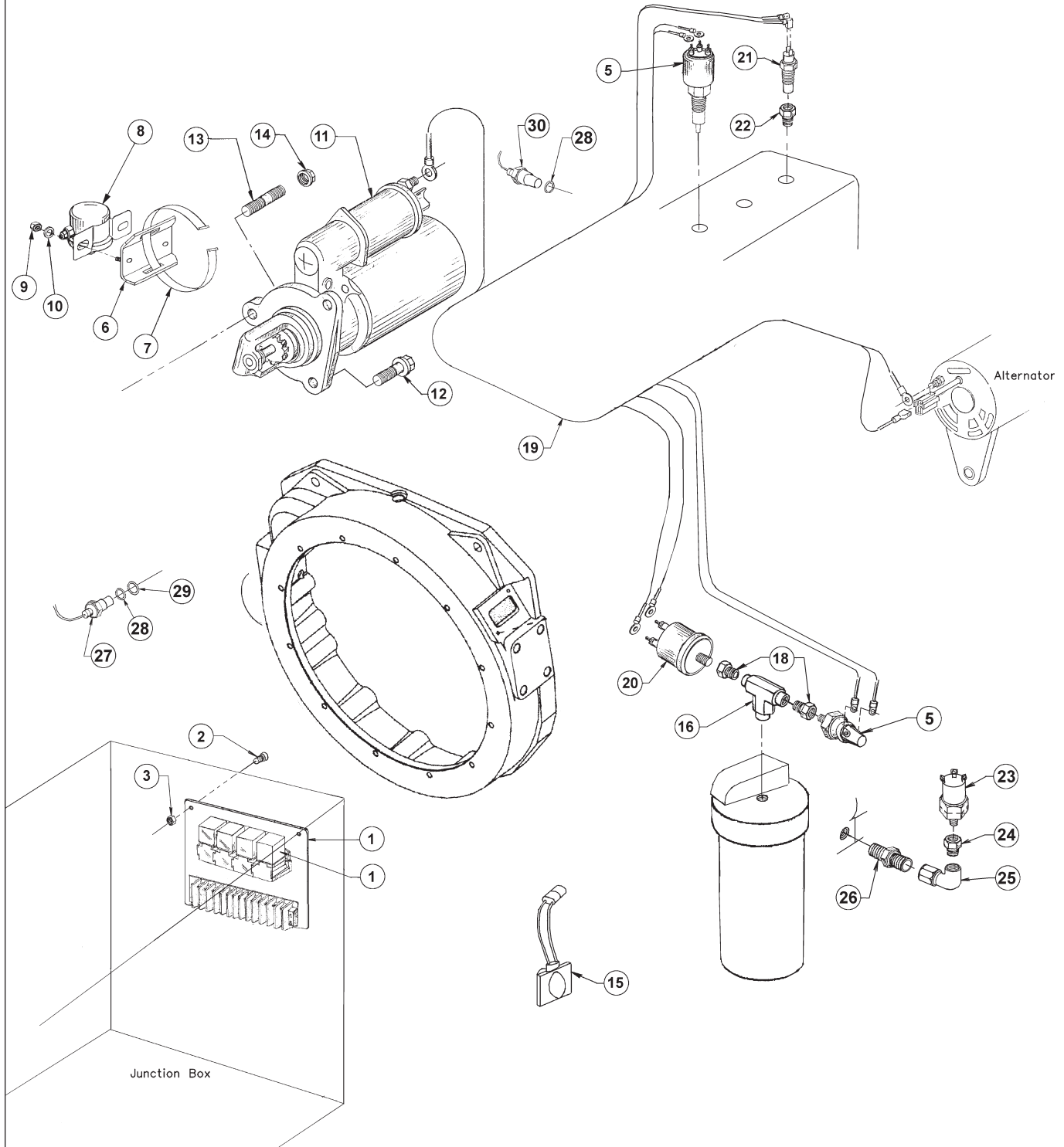
**Engine Electrical Assembly L1276 12V & 24V**

Current Production  
without Circuit Breaker &  
Relay Assembly

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49709	1	Wiring Harness	-
2	AH130222	2	Clamp	-
3	19M7788	2	Screw, M12 x 25	-
4	14M296	1	Flange Nut	-
5	RE500805	1	Wiring Harness	-
6	RE500927	1	Wire	-
7	R44302	1	Tie Band	-
8		1	Engine Controller (see Fuel System)	-
9	R72659	1	Clamp	-
10	R500488	3	Isolator	-
11	R72659	3	Clamp	-
	19M7783	3	Screw	-
12	RE500588	1	Bracket	-
13	19M7786	3	Screw	-
14	19M8483	4	Screw	-
15	24M7296	3	Washer	-
16	RE167207	1	Oil Pressure Sensor	-
17	RE48419	2	Coolant & Fuel Temperature Sensor*	-
18	RE519144	2	Crankshaft & Camshaft Position Sensor*	-
			*Not shown	

# Engine Electrical Assembly 12V Isolated Ground

M1276



D-3442changed

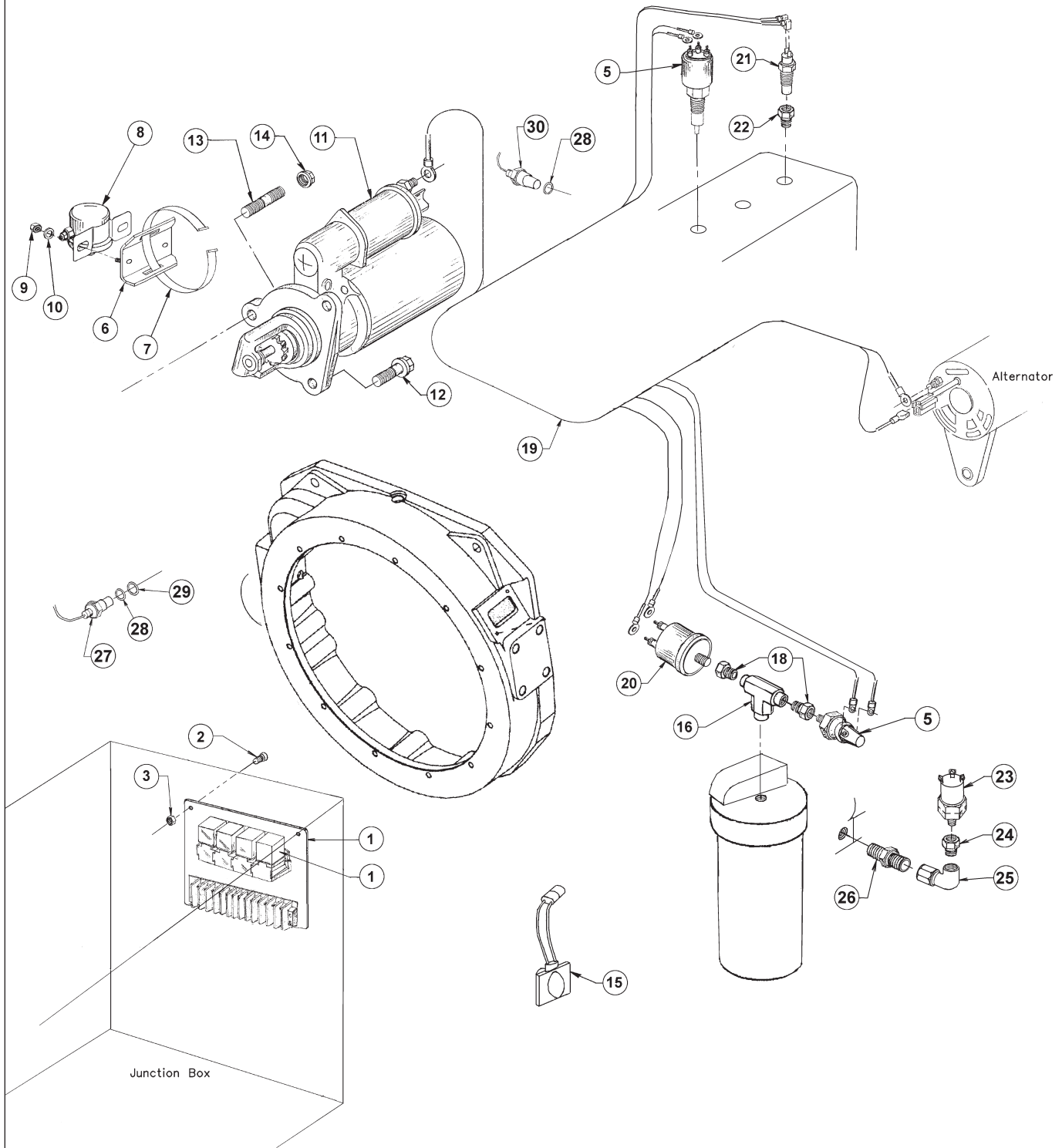
## Engine Electrical Assembly 12V Isolated Ground

M1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-70086-1	1	Autostart Relay Board Sub-Assembly (see Parts Detail)	-
	22-70093-1	1	Autostart Relay Board Sub-Assembly for Energise-To-Stop and Redundant Power Supply (see Parts Detail)	-
	22-42047	3	Relay, SPDT 12 VDC 50 Amp	-
	22-70083-1	1	Relay Board Sub-assembly (see Parts Detail)	-
2	12-00001	4	Machine Screw, PH Phillips #10-32 x 3/4" S/S	-
3	14-00006	4	Hex Nut, Nylock #10-32	-
4	22-40915	1	Switch, Pressure 15 PSI	-
5	22-40907	1	Switch, Temperature 205°F	-
6	23-40009	1	Bracket, Solenoid Mtg.	-
7	19-00088	1	Hose Clamp #88	-
8	22-41080	1	Solenoid 12 VDC 65 Amp	-
9	14-00112	2	Hex Nut, Nylock 1/2-20	-
10	15-00121	2	Flat Washer, 1/4" SAE	-
11	RE515843	1	Starter 12 V Isolated Ground (marked RE506825 or RE522851)	-
12	19M7813	2	Capscrew, Hex Head Flanged M12 x 1.75 x 45 mm	-
13	42M7029	1	Stud	-
14	14M7299	1	Hex Nut, Flanged M12 x 1.75	-
15	AT157679	1	Transient Voltage Protector 12V	-
16	21-71052	1	Female Plain Tee, Steel 1/4 NPT	-
17	21-74413	1	Hex Nipple, Steel 1/4 NPT	-
18	21-00132	2	Bushing, Brass 1/4 NPT x 1/8 NPT	-
19	22-49708	1	Engine Wire Harness, Isolated Ground	-
20	22-42803	1	Oil Pressure Sender 0-80 PSI, Isolated Ground Single Station	-
	22-74803	1	Oil Pressure Sender 0-80 PSI, Isolated Ground Dual Station	-
21	22-42802	1	Temperature Sender 0-250°F Isolated Ground Single Station	-
	22-74802	1	Temperature Sender 0-250°F Isolated Ground Single Station	-
22	21-00135	1	Bushing, 1/2 NPT x 1/4 NPT (use with 22-74802)	-
23	22-40509	1	Water Pressure Switch	-
24	21-00132	1	Bushing	-
25	21-19706	1	Female Swivel, 90° 1/4- 37T x 1/4 NPT	-
26	21-55403	1	Male Connector, M12 x 1.5 x 1/4- 37T	-
27	RE519144	1	Camshaft Sensor	-
28	51M7044	2	O-ring	-
29	R60756	1	Washer	-
30	RE519144	1	Crankshaft Sensor	-

# Engine Electrical Assembly 24V Isolated Ground

M1276



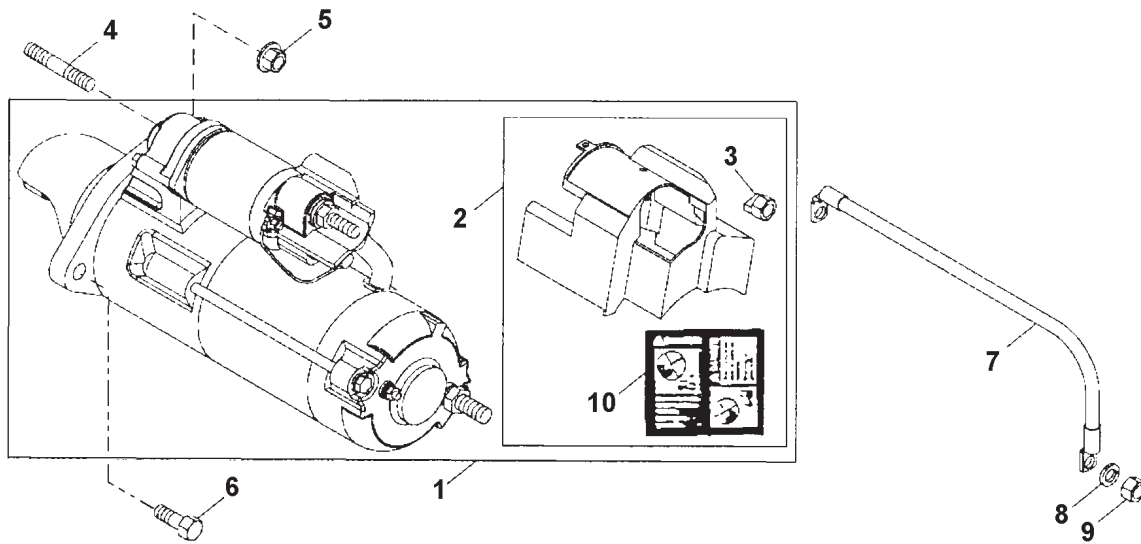
D-3442changed

## Engine Electrical Assembly 24V Isolated Ground

M1276

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-70086-1	1	Autostart Relay Board Sub-Assembly (see Parts Detail)	-
	22-70093-1	1	Autostart Relay Board Sub-Assembly for Energise-To-Stop and Redundant Power (see Parts Detail)	-
	22-40085	3	Relay, SPDT 24 VDC 20 Amp	-
	22-70083-1	1	Relay Board Sub-assembly	-
2	12-00001	4	Machine Screw, PH Phillips #10-32 x 3/4" S/S	-
3	14-00006	4	Hex Nut, Nylock #10-32	-
4	22-40915	1	Switch, Pressure 15 PSI	-
5	22-40907	1	Switch, Temperature 205°F	-
6	23-40009	1	Bracket, Solenoid Mtg.	-
7	19-00088	1	Hose Clamp #88	-
8	22-41079	1	Solenoid 24 VDC 65 Amp	-
9	14-00112	2	Hex Nut, Nylock 1/2-20	-
10	15-00121	2	Flat Washer, 1/4" SAE	-
11	RE515895	1	Starter 24 V Isolated Ground (marked RE522852)	-
12	19M7813	2	Capscrew, Hex Head Flanged M12 x 1.75 x 45 mm	-
13	42M7029	1	Stud	-
14	14M7299	1	Hex Nut, Flanged M12 x 1.75	-
15	AT163022	1	Transient Voltage Protector 24V	-
16	21-71052	1	Female Plain Tee, Steel 1/4 NPT	-
17	21-74413	1	Hex Nipple, Steel 1/4 NPT	-
18	21-00132	2	Bushing, Brass 1/4 NPT x 1/8 NPT	-
19	22-49708	1	Engine Wire Harness, Isolated Ground	-
20	22-42803	1	Oil Pressure Sender 0-80 PSI, Isolated Ground Single Station	-
	22-74803	1	Oil Pressure Sender 0-80 PSI, Isolated Ground Dual Station	-
21	22-42802	1	Temperature Sender 0-250°F Isolated Ground Single Station	-
	22-74802	1	Temperature Sender 0-250°F Isolated Ground Single Station	-
22	21-00135	1	Bushing, 1/2 NPT x 1/4 NPT (use with 22-74802)	-
23	22-40509	1	Water Pressure Switch	-
24	21-00132	1	Bushing	-
25	21-19706	1	Female Swivel, 90° 1/4- 37T x 1/4 NPT	-
26	21-55403	1	Male Connector, M12 x 1.5 x 1/4- 37T	-
27	RE519144	1	Camshaft Sensor	-
28	51M7044	2	O-ring	-
29	R60756	1	Washer	-
30	RE519144	1	Crankshaft Sensor	-

**Starter 12 Volt**



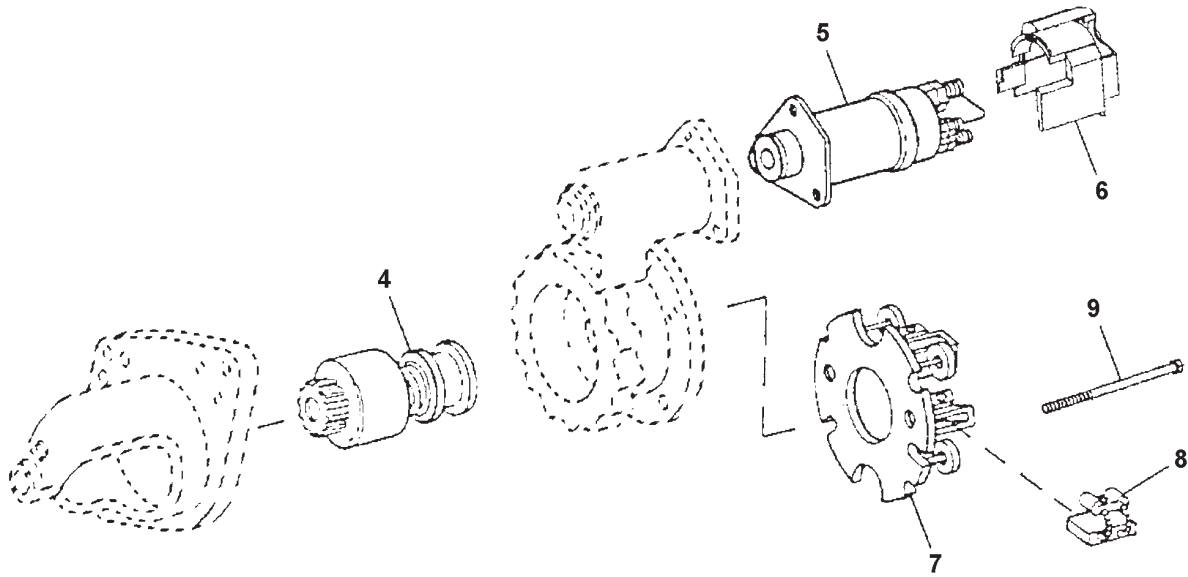
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RGP8386

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE515843	1	12 Volt Starter Kit (marked RE522851, includes keys 2, 3, & 10)	-
2	RE515734	1	Shield (includes keys 3, 10)	-
3	TY22471	1	Clamp	-
4	42M7029	2	Stud, M12 x 1.75 x 40 mm (55 mm LOA)	-
5	14M7299	2	Flange Nut, M12	-
6	19M7813	1	Screw, M12 x 45	-
7	AR67069	**	Ground Cable	-
8	12H301	**	Lock Washer, 1/2"	-
9	14H1069	**	Nut, 1/2"	-
10	T146102	1	Safety Label, English	-
	T146106	1	Safety Label, Spanish	-
	T146104	1	Safety Label, French	-
	T146515	1	Safety Label, German	-
	T146516	1	Safety Label, Italian	-
	T146517	1	Safety Label, English and French	-
			**As required	



Starter Repair Parts, 12 Volt



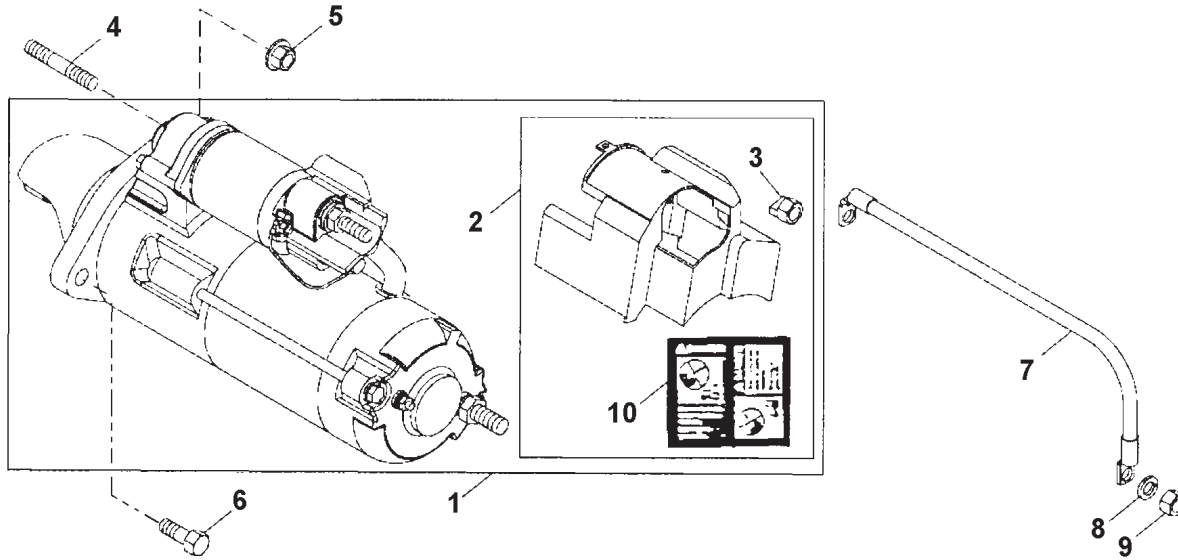
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RGP8387

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE515843	1	12 Volt Starter Kit (marked RE522851)	-
1	R516331	2	Nut*	-
2	R516332	1	Lock Washer*	-
3	R518381	2	Flange Nut*	-
4	RE522853	1	Clutch (substitute for RE515729)	-
5	RE515727	1	Solenoid	-
6	RE515734	1	Cover	-
7	RE515731	1	Brush Holder	-
8	RE515730	1	Brush	-
	RE515754	1	Kit	-
9	R515283	1	Screw	-
			*not shown	

GROUP 5 - ELECTRICAL SYSTEM

Starter 24 Volt

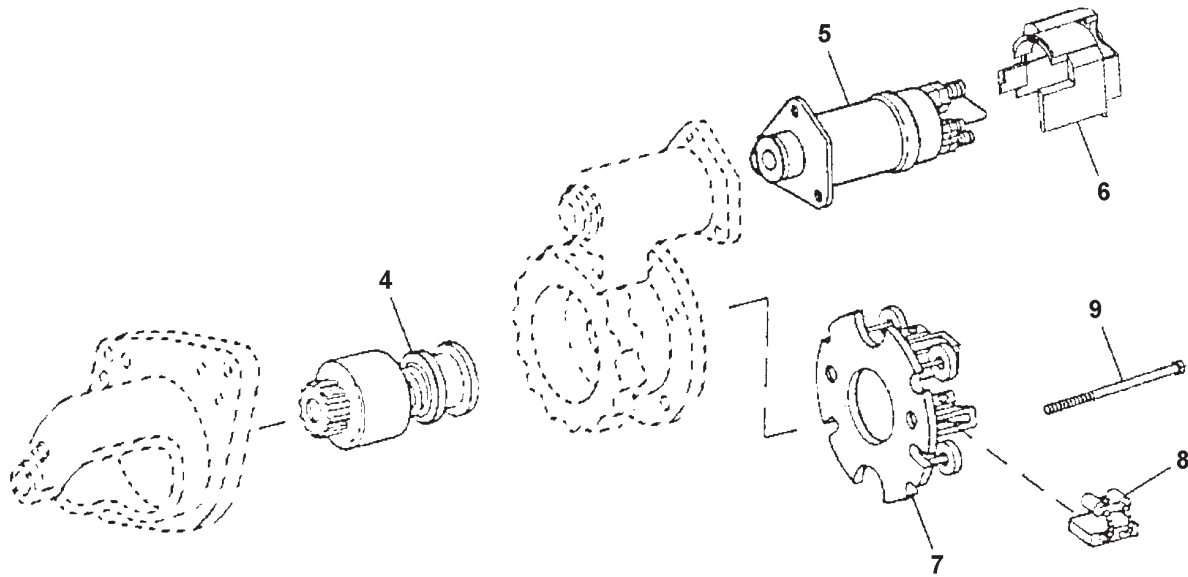


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RGP8386

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE515895	1	24 Volt Starter Kit (marked RE522852, includes keys 2, 3, & 10)	-
2	RE515734	1	Shield (includes keys 3, 10)	-
3	TY22471	1	Clamp	-
4	42M7029	1	Stud	-
5	14M7299	2	Flange Nut, M12	-
6	19M7813	2	Screw, M12 x 45	-
7	AR67069	**	Ground Cable	-
8	12H301	**	Lock Washer, 1/2"	-
9	14H1069	**	Nut, 1/2"	-
10	T146102	1	Safety Label, English	-
	T146106	1	Safety Label, Spanish	-
	T146104	1	Safety Label, French	-
	T146515	1	Safety Label, German	-
	T146516	1	Safety Label, Italian	-
	T146517	1	Safety Label, English and French	-
			**As required	

Starter Repair Parts, 24 Volt



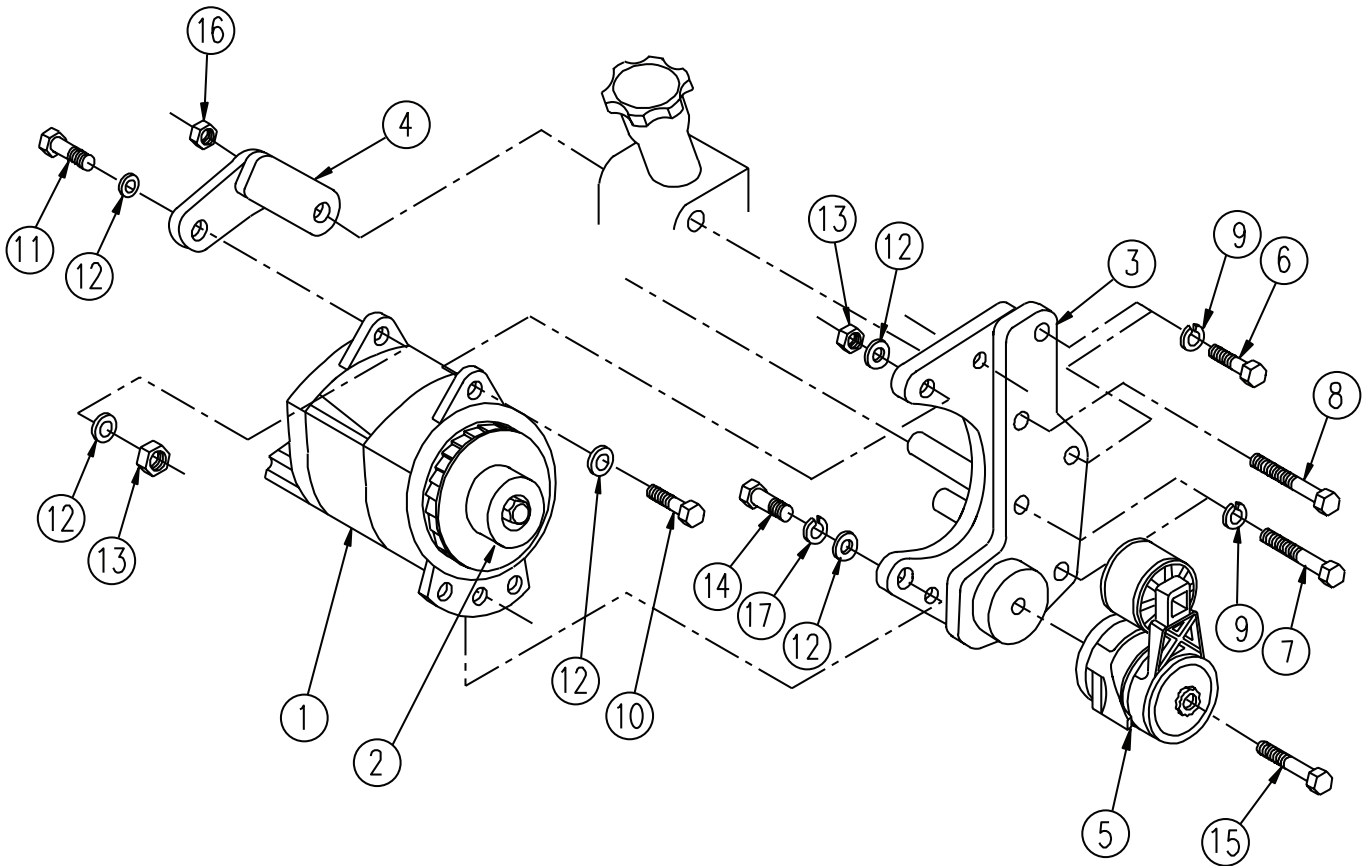
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RGP8387

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE515895	1	24 Volt Starter Kit (marked RE522852)	-
1	R516331	2	Nut*	-
2	R516332	1	Lock Washer*	-
3	R518381	2	Flange Nut*	-
4	RE522853	1	Clutch (substitute for RE515729)	-
5	RE515728	1	Switch	-
6	RE515734	1	Cover	-
7	RE515731	1	Brush Holder	-
8	RE515730	1	Brush	-
	RE515754	1	Kit	-
9	R515283	1	Screw	-
			*not shown	

# Large Frame Alternator & Mounting

- 12 Volt/ 160 Amp
- 24 Volt/ 75 Amp
- 24 Volt/ 100 Amp
- 24 Volt/ 175 Amp



A-10242/ B-8129

## Large Frame Alternator & Mounting

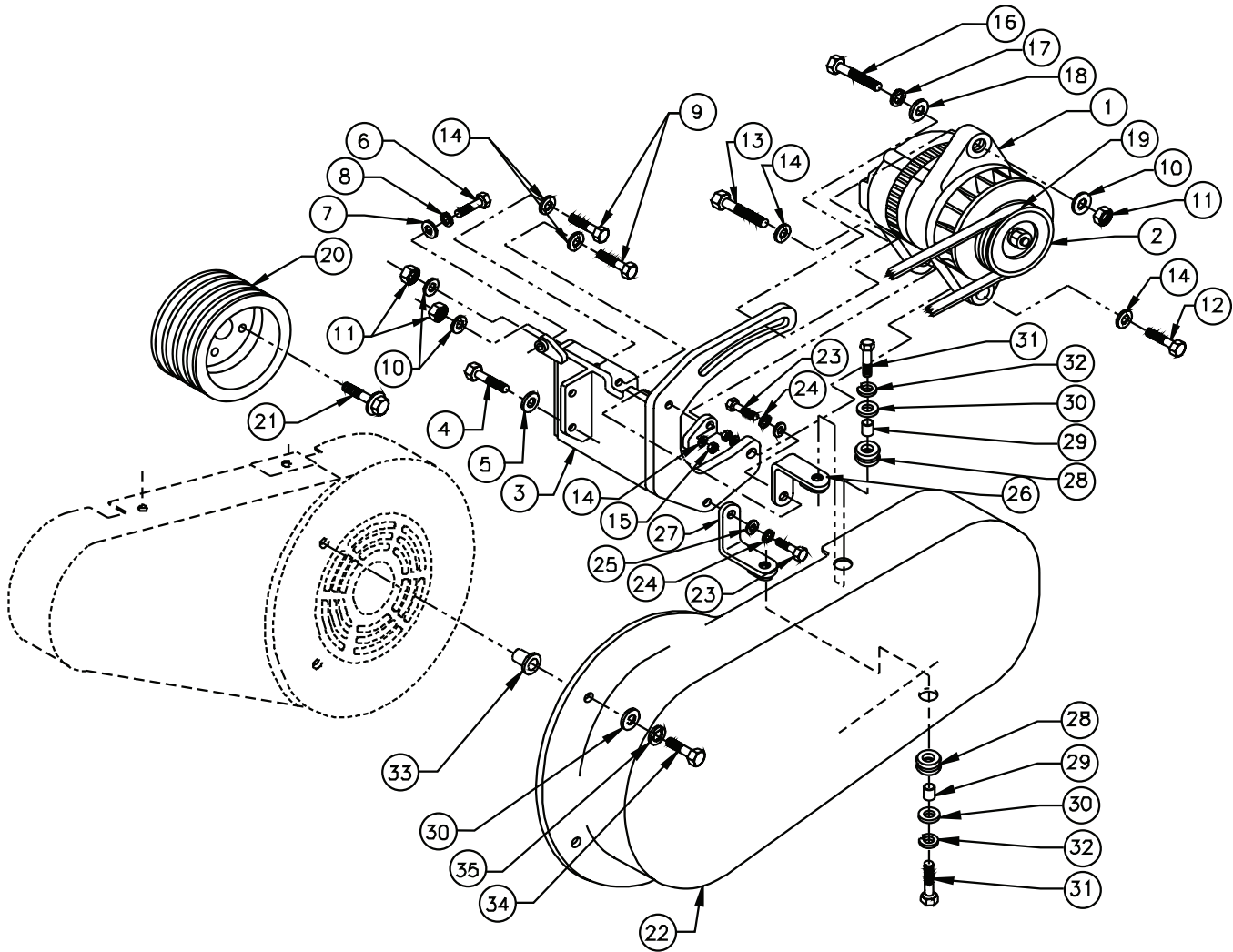
12 Volt/ 160 Amp  
24 Volt/ 75 Amp  
24 Volt/ 100 Amp  
24 Volt/ 175 Amp

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-40504	1	Alternator 12V/ 160 Amp	-
	22-40277	1	Alternator 24V/ 75 Amp	-
	22-45018	1	Alternator 24V/ 100 Amp	-
	22-40227	1	Alternator 24V/ 175 Amp	-
2	34-49503	1	Pulley 8 Groove 3- 1/4" OD x 7/8" ID (for 12V/ 160A & 24V/ 75A)	-
	34-42501	1	Pulley 8 Groove 3-1/4" OD x 7/8" ID (for 24V/ 100A & 24V/ 175A)	-
3	23-49702	1	Bracket, Large Frame Alternator	-
4	23-49701	1	Bracket, Rear Alternator Support	-
5	RE170084	1	Tensioner/ Idler Assembly	-
6	12-00832	2	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
7	12-00053	2	Capscrew, Hex Head M10 x 1.5 x 120 mm	-
8	12-00842	1	Capscrew, Hex Head M10 x 1.5 x 140 mm	-
9	15-00802	**	Lock Washer, Helical M10	-
10	12-00516	1	Capscrew, Hex Head 1/2- 13 x 2"	-
11	12-00517	1	Capscrew, Hex Head 1/2- 13 x 2- 1/4"	-
12	15-00504	**	Flat Washer, 1/2" SAE	-
13	14-00512	2	Hex Nut, Nylock 1/2- 13	-
14	12-00513	1	Capscrew, Hex Head 1/2- 13 x 1- 1/4" (for 75, 100, & 175 amp alternators)	-
	12-00514	1	Capscrew, Hex Head 1/2- 13 x 1- 1/2" (for 160 amp alternators)	-
15	01437-01075	1	Capscrew, 12 Point M10 x 1.5 x 75 mm	-
16	14-00812	1	Hex Nut, Nylock M10 x 1.5	-
17	15-00502	1	Lock Washer 1/2"	-
18	40-49702	1	Drive Belt (not shown)	-
			**As required.	

GROUP 5 - ELECTRICAL SYSTEM

**Second Alternator & Mounting**

24 Volt/ 75 Amp



A-10502/B-9307

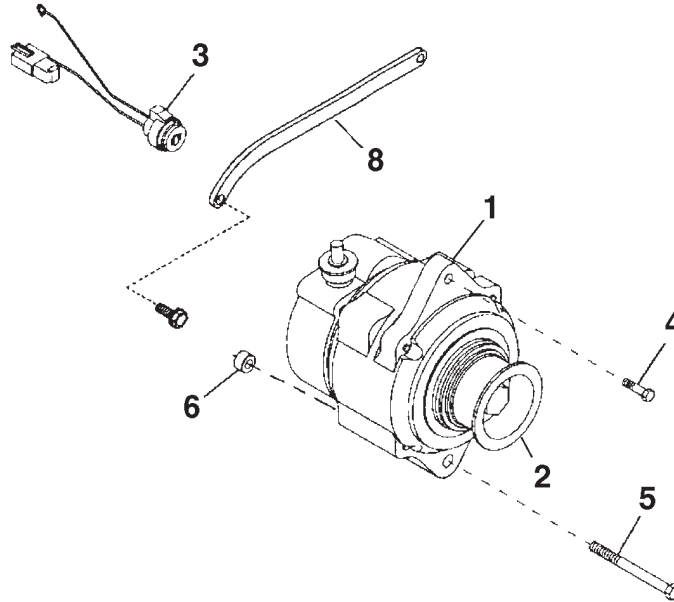
## Second Alternator &amp; Mounting

24 Volt/ 75 Amp

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-40277	1	Alternator 24V/ 75 Amp	-
2	34-42501	1	Pulley, 2-A x 3-1/4" x 7/8" ID	-
3	23-49709	1	Bracket, 2nd Large Frame Alternator	-
4	12-01508	2	Capscrew, Hex Head M16 x 2.0 x 45 mm	-
5	15-01000	2	Lock Washer, Helical M16	-
6	12-00812	1	Capscrew, Hex Head M10 x 1.5 x 40 mm	-
7	15-00805	1	Flat Washer, M10	-
8	15-00802	1	Lock Washer, Helical M10	-
9	12-04802	2	Capscrew, Hex Head M12 x 1.75 x 45 mm	-
10	15-00007	4	Flat Washer, M12	-
11	14-00830	2	Hex Nut, Nylock M12 x 1.75	-
12	12-00516	1	Capscrew, Hex Head 1/2-13 x 2"	-
13	12-00517	1	Capscrew, Hex Head 1/2-13 x 2-1/4"	-
14	15-00504	4	Flat Washer, 1/2" SAE	-
15	14-00512	2	Hex Nut, Nylock 1/2-13	-
16	12-00513	1	Capscrew, Hex Head 1/2-13 x 1-1/4"	-
17	15-00502	1	Lock Washer, Helical 1/2"	-
18	15-00504	1	Flat Washer, 1/2" SAE	-
19	40-05405	2	Drive Belt 31/64" x 48-7/8"	-
20	34-69703	1	Crankshaft Pulley 4-A x 8"	-
21	01436-01015	1	Capscrew, Hex Head Flanged M10 x 1/5 x 115 mm	-
22	00-09706	1	Belt Guard, 2nd Large Frame Alternator	-
23	12-00711	2	Capscrew, Hex Head M8 x 1.25 x 20 mm	-
24	15-00702	2	Lock Washer, Helical M8	-
25	15-00701	2	Flat Washer, M8	-
26	23-09708	1	Bracket, Belt Guard Mtg.	-
27	23-09709	1	Bracket, Belt Guard Mtg.	-
28	00-00017	2	Grommet, 1/2" ID x 1" OD	-
29	21-05002	2	Spacer, BP 1/4 Schd. 40 x 0.35"	-
30	15-70004	4	Snubbing Washer, S/S	-
31	12-09712	2	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
32	15-00705	4	Lock Washer, M8 S/S	-
33	00-01008	2	Grommet, Well-nut type	-
34	12-09212	2	Capscrew, Hex Head 5/16-18 x 1" S/S	-
35	15-00222	2	Lock Washer, Helical 5/16" S/S	-

**Alternator & Mounting**

NL1276



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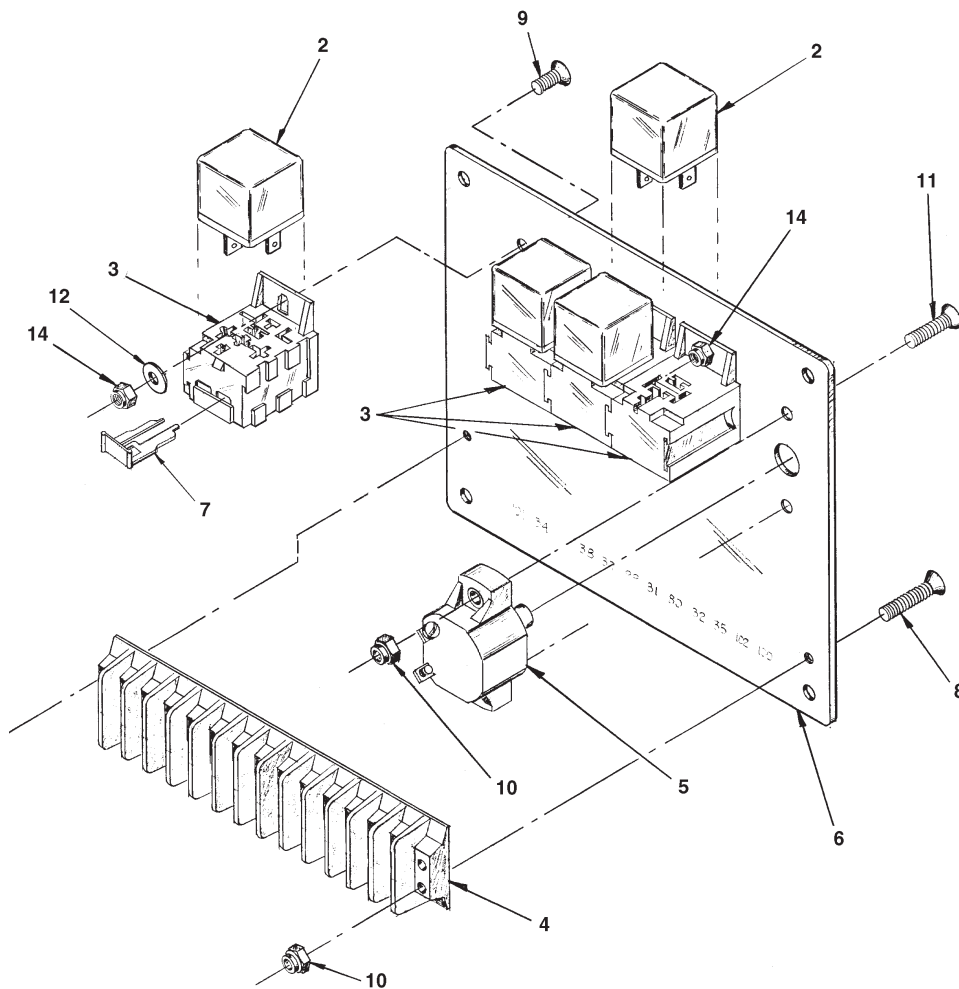
RG26012RGP01&RGP7434

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500227	1	Alternator 24V/ 90 Amp	-
2	R114844	1	Pulley	-
3	RE500232	1	Wiring Harness	-
4	19M7868	1	Screw	-
5	19M7812	1	Screw	-
6	H140461	1	Bushing	-
7	RE500267	1	Voltage Regulator (not shown)	-
8	R129532	1	Adjusting Strap	-



# 12 & 24 Volt Relay Logic Board

Manual Start



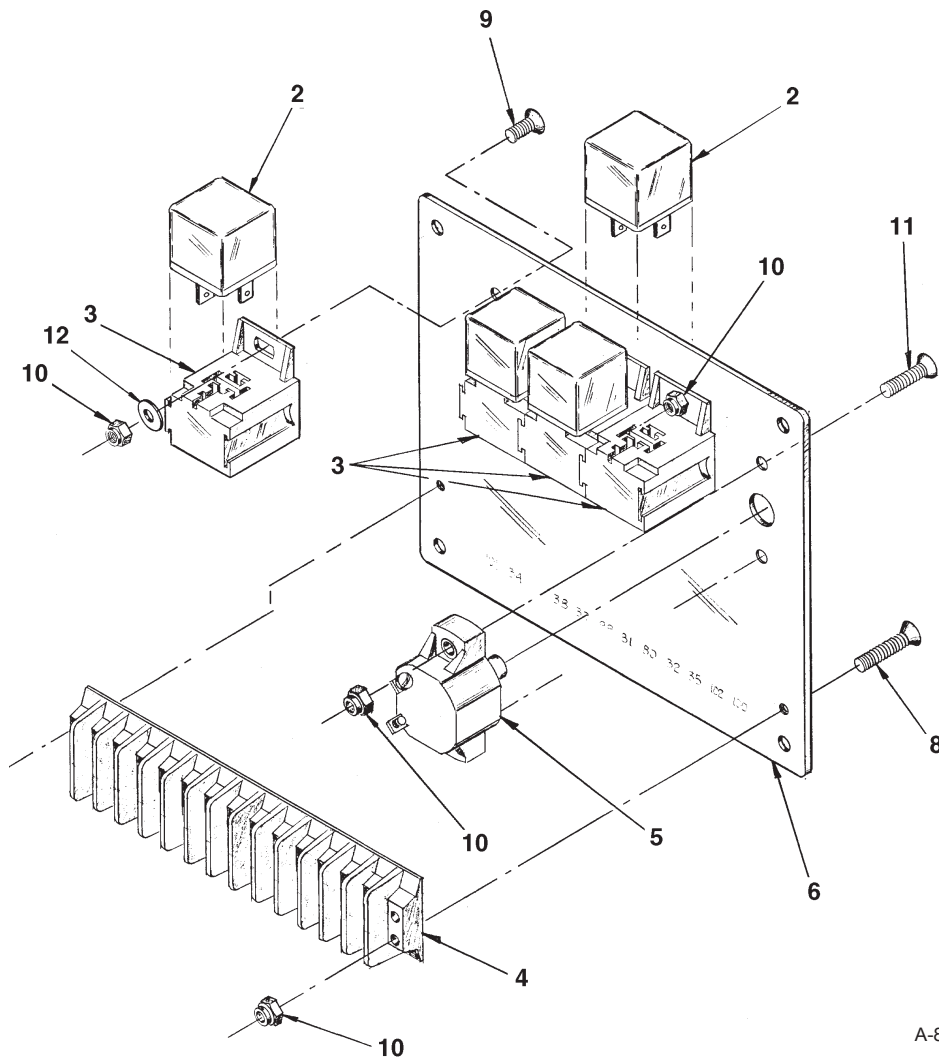
A-8851, A-8852, A-8854, A-8855/ C-2041C

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-70083	1	12V Relay Logic Board, Manual Start (Includes all keys)	-
••	22-70084	1	24V Relay Logic Board, Manual Start (Includes all keys)	-
1	22-41060	2	6 amp Diode (not shown)	-
2	22-42047	4	12V Relay SPDT	-
	22-40085	4	24V Relay SPDT	-
3	22-40391	4	Relay Base	-
	22-40393	4	Clip	-
4	22-40193	1	12 Connection Terminal Board, 600 VAC	-
5	22-40018	1	10 amp Circuit Breaker	-
6	28-40001	1	Relay Board Mounting Plate- Manual Start	-
7	22-40393	4	Terminal Retainer Clip	-
8	12-00083	2	Machine Screw, Flat Head Countersunk #8-32 x 3/4"	-
9	12-00082	4	Machine Screw, Flat Head Countersunk #8-32 x 3/8"	-
10	14-00003	2	Hex Nut, Nylock, #8 x 32	-
11	12-40225	2	Machine Screw, Flat Head Countersunk, #8-32 x 7/8"	-
12	15-00001	4	Flat Washer, #8	-
13	22-40347	1	Wire Harness, Manual Start (not shown)	-
14	14-00000	4	Hex Nut #8- 32	-

**GROUP 5 - ELECTRICAL SYSTEMS**

**12 & 24 Volt Relay Logic Board**

Autostart

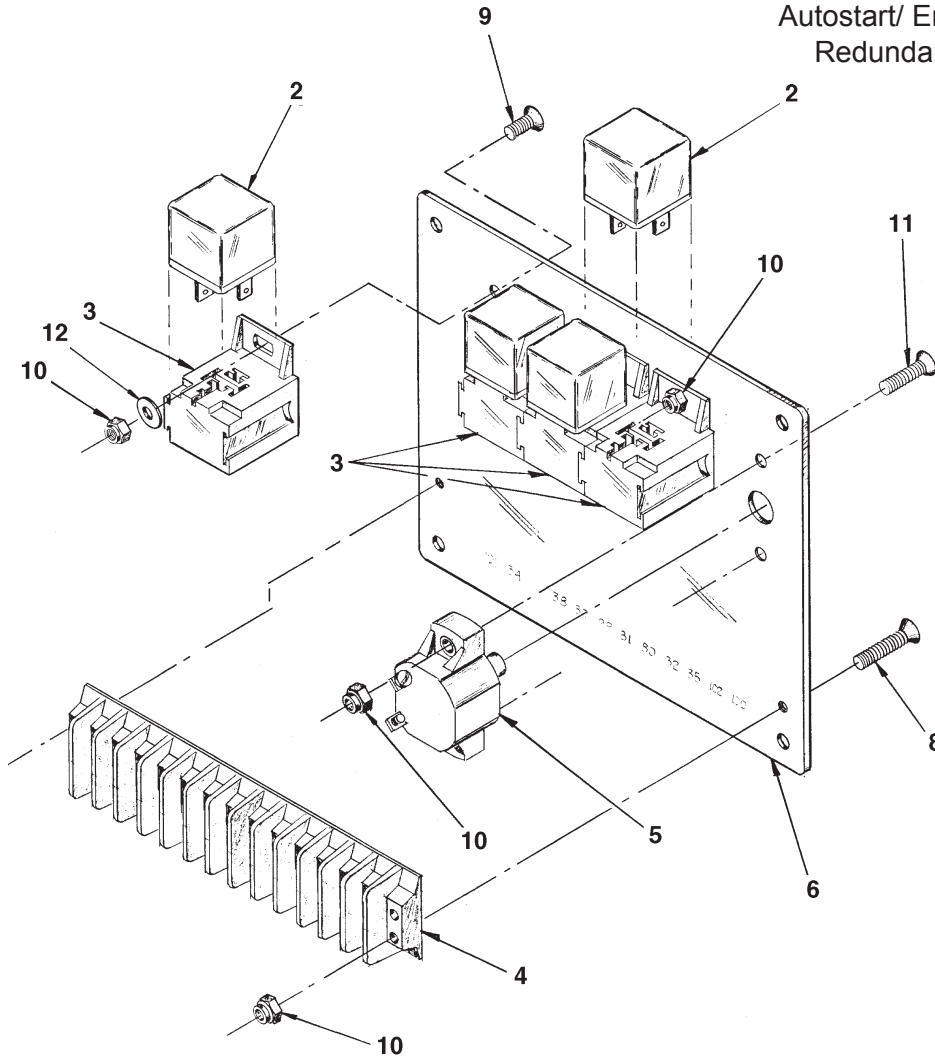


A-8854, A-8855/ C-2041

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-70086	1	12V Relay Logic Board, Autostart (Includes all keys)	-
••	22-70087	1	24V Relay Logic Board, Autostart (Includes all keys)	-
2	22-42047	4	12V Relay SPDT	-
	22-40085	4	24V Relay SPDT	-
3	22-40391	4	Relay Base	-
4	22-40193	1	12 Connection Terminal Board, 600 VAC	-
5	22-40018	1	10 amp Circuit Breaker	-
6	28-90018	1	Relay Board Mounting Plate	-
7	22-40393	4	Terminal Retainer Clip (not shown)	-
8	12-00083	2	Machine Screw, Flat Head Countersunk #8-32 x 3/4"	-
9	12-00082	4	Machine Screw, Flat Head Countersunk #8-32 x 3/8"	-
10	14-00003	4	Hex Nut, Nylock, #8 x 32	-
11	12-40225	2	Machine Screw, Flat Head Countersunk, #8-32 x 7/8"	-
12	15-00001	4	Flat Washer, #8	-
13	22-40392	1	Wire Harness, Autostart (not shown)	-
14	14-00000	4	Hex Nut #8- 32	-

**12 & 24 Volt Relay Logic Board**

Autostart/ Energise-To-Stop/  
Redundant Power Supply

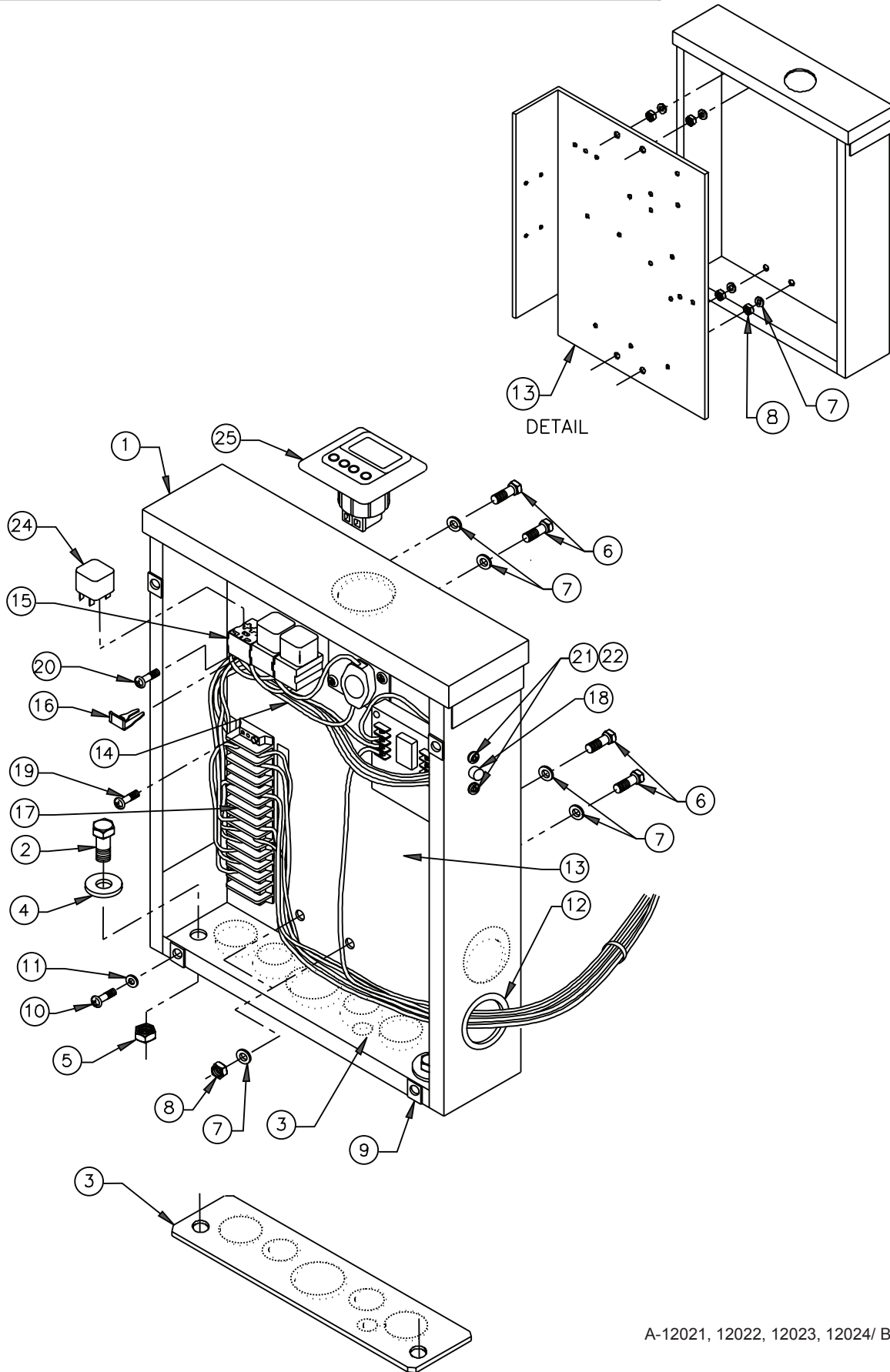


A-11644, A-11645/ C-2041

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-70093	1	12V Relay Logic Board, Autostart (Includes all keys)	-
••	22-70094	1	24V Relay Logic Board, Autostart (Includes all keys)	-
1	22-00089	1	Number Strip (not shown)	-
2	22-42047	3	12V Relay SPDT	-
	22-40085	3	24V Relay SPDT	-
3	22-40391	3	Relay Base	-
4	22-40193	1	12 Connection Terminal Board, 600 VAC	-
5	22-40018	1	10 amp Circuit Breaker	-
6	28-40001	1	Relay Board Mounting Plate	-
7	22-40393	3	Terminal Retainer Clip (not shown)	-
8	12-00083	2	Machine Screw, Flat Head Countersunk #8-32 x 3/4"	-
9	12-00082	3	Machine Screw, Flat Head Countersunk #8-32 x 3/8"	-
10	14-00003	3	Hex Nut, Nylock, #8 x 32	-
11	12-40225	2	Machine Screw, Flat Head Countersunk, #8-32 x 7/8"	-
12	15-00001	4	Flat Washer, #8	-
13	22-40420	1	Wire Harness, Autostart (not shown)	-
14	14-00000	3	Hex Nut #8- 32	-

GROUP 5 – ELECTRICAL SYSTEM

NEMA 3R DC Electrical Enclosure & Relay Panel

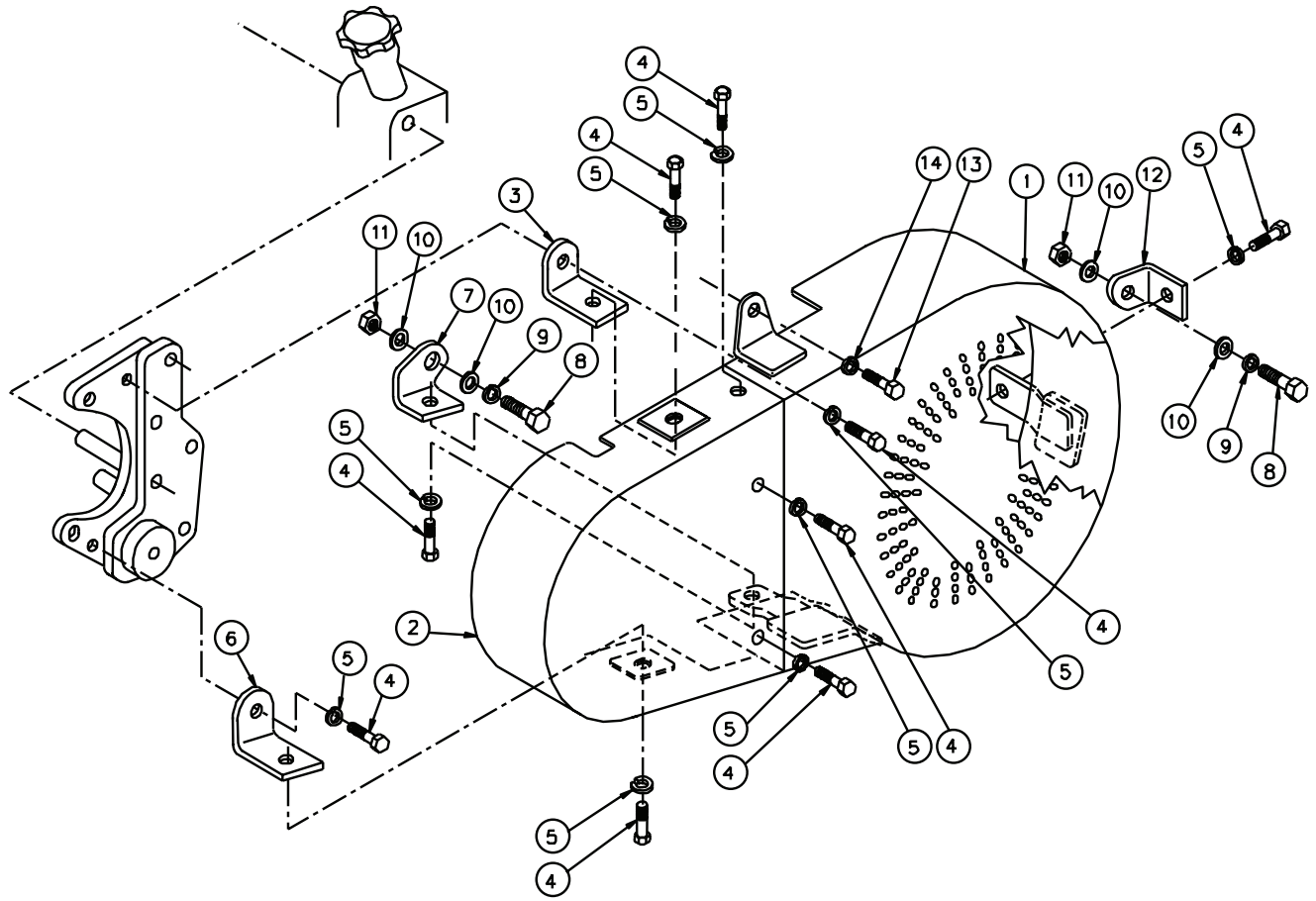


A-12021, 12022, 12023, 12024/ B-9556

**NEMA 3R DC Electrical Enclosure & Relay Panel**

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-70183	1	Relay Panel Assembly, Manual Start (includes keys #13-23)	-
••	22-70186	1	Relay Panel Assembly, Autostart (includes keys #13-23)	-
••	22-70193	1	Relay Panel Assembly, Energise-to-stop & Redundant Power Supply (includes keys #13-23)	-
1	39-42036	1	Enclosure, NEMA 3R	-
2	12-00832	2	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
3	28-49502	1	Plate, D.C. Enclosure Mtg.	-
4	15-00014	2	Head/ Tail Washer	-
5	14-00812	2	Hex Nut, Nylock M10 x 1.5 Class 8	-
6	12-01131	4	Capscrew, Hex Head M6 x 1.0 x 20 mm	-
7	15-00008	12	Flat Washer M6	-
8	14-04803	8	Hex Nut, Nylock M6 x 1.0 Class 8	-
9	00-40023	4	Receptacle, Screw Retainer	-
10	12-72004	4	Sheet Metal Screw, Truss Head Phillips #10	-
11	15-00036	4	Flat Washer #10 Nylon	-
12	00-73109	2	Grommet 1-1/2" ID x 2-1/8" OD	-
13	28-49501	1	Back Plane	-
14	22-99537	1	Harness Assembly, Manual Start (includes key #23)	-
	22-99538	1	Harness Assembly, Autostart	-
	22-99539	1	Harness Assembly, Autostart with Redundant Power Supply	-
15	22-40391	3	Relay Base (without retainer)	-
16	22-40393	3	Terminal Retainer	-
17	22-41069	1	Terminal Strip	-
18	22-40018	1	Circuit Breaker	-
19	12-00005	4	Machine Screw, Phillips #8-32 x 3/4" S/S	-
20	12-00004	2	Machine Screw, Phillips #8-32 x 3/8" S/S	-
21	12-42105	2	Machine Screw, Phillips #8-32 x 7/8" S/S	-
22	15-00001	2	Flat Washer #8	-
23	22-41060	4	Diode 6 Amp (for use with Harness 22-99537)	-
24	22-42047	**	Relay 12 Volt	-
	22-40085	**	Relay 24 Volt	-
			**As required	
			Optional	
25	37-90086	1	Powerview Module	-
26	22-99506	1	Wire Harness (not shown)	-

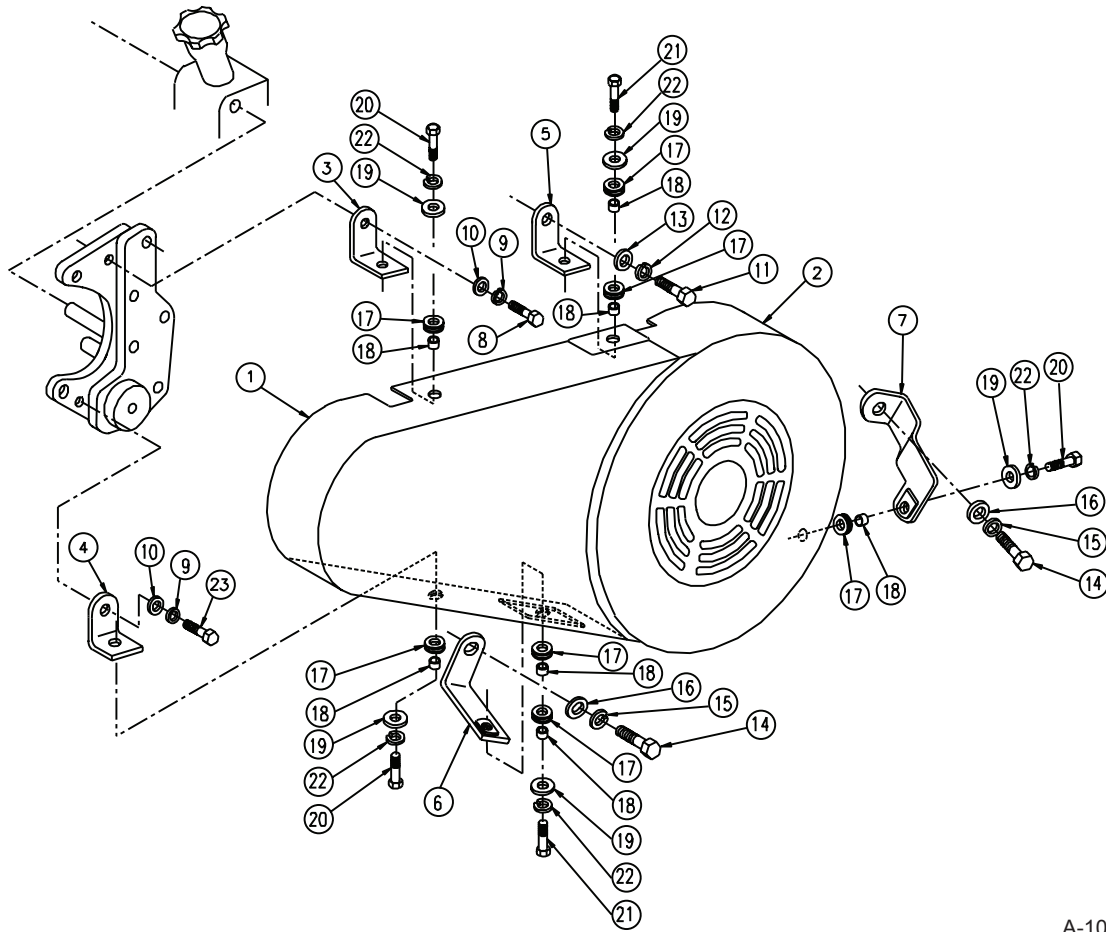
**Belt Guard, Steel**



A-10276/ C-5494

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-49703	1	Belt Guard, Lower 1/2	-
2	00-49702	1	Belt Guard, Upper 1/2	-
3	23-49703	1	Bracket, Belt Guard Mtg., Upper 1/2, Upper	-
4	12-00832	9	Cap screw, M10 x 1.5 x 30 mm	-
5	15-00802	9	Lock Washer M10	-
6	23-49704	1	Bracket, Belt Guard Mtg., Upper 1/2, Lower	-
7	23-49705	1	Bracket, Belt Guard Mtg., Lower 1/2, Right Hand	-
8	12-04803	2	Cap screw, M16 x 2.0 x 40 mm	-
9	15-01000	2	Lock Washer M16	-
10	15-01003	4	Flat Washer M16 (S/S)	-
11	14-01433	2	Hex Nut, Nylock	-
12	23-49706	1	Bracket, Belt Guard Mtg., Lower 1/2, Left Hand	-
13	12-00912	1	Cap screw, M12 x 1.75 x 25 mm	-
14	15-00912	1	Lock Washer M12	-

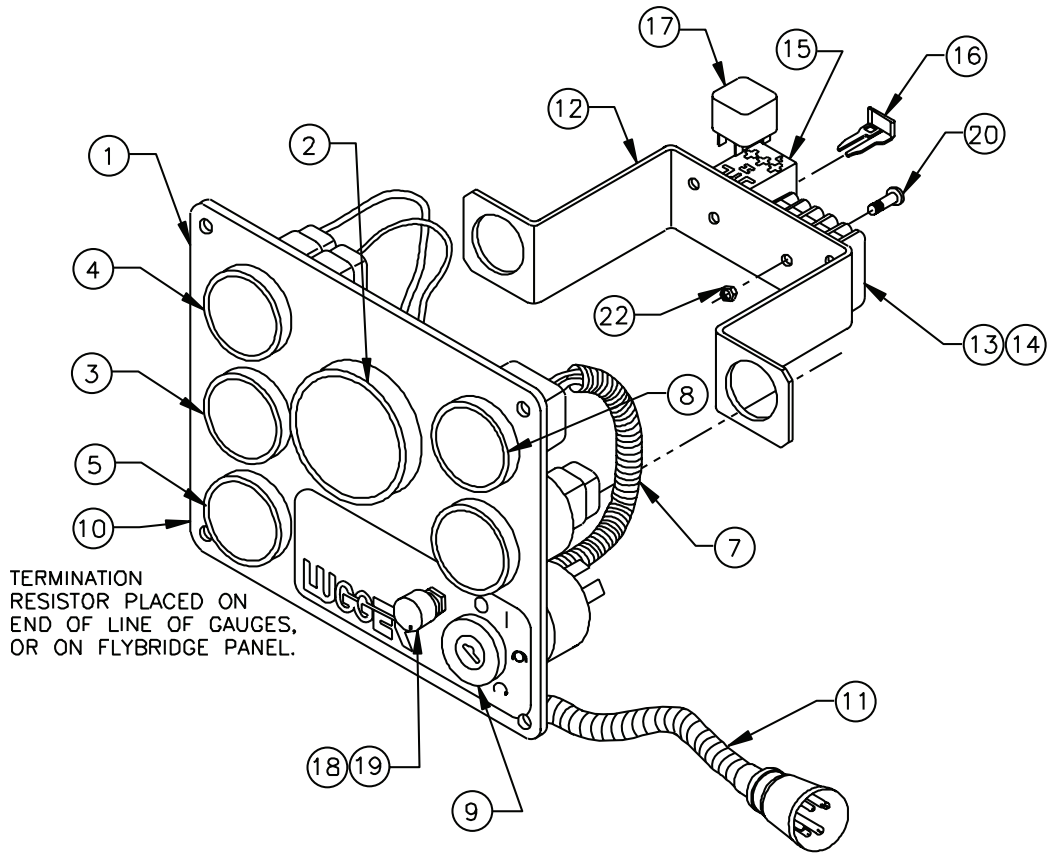
Belt Guard, Plastic



A-10431/ C-5634

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-09703	1	Belt Guard, Upper 1/2	-
2	00-09704	1	Belt Guard, Lower 1/2	-
3	23-09701	1	Bracket, Upper 1/2 Belt Guard Mounting	-
4	23-49702	1	Bracket, Lower 1/2 Belt Guard Mounting	-
5	23-09703	1	Bracket, Upper Right Hand, Belt Guard Lower 1/2	-
6	23-09704	1	Bracket, Lower Right Hand, Belt Guard Lower 1/2	-
7	23-09706	1	Bracket, Lower Left Hand, Belt Guard Lower 1/2	-
8	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
9	15-00802	2	Lock Washer, Helical M10	-
10	15-00805	2	Flat Washer M10	-
11	12-00912	1	Capscrew, Hex Head M12 x 1.75 x 25 mm	-
12	15-00912	1	Lock Washer, M12	-
13	15-00007	1	Flat Washer M12	-
14	12-01500	2	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
15	15-01000	2	Lock Washer M16	-
16	15-01330	2	Flat Washer 5/8 SAE	-
17	00-00017	7	Grommet	-
18	21-05002	7	Spacer	-
19	15-70004	5	Snubbing Washer S/S	-
20	12-09712	3	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
21	12-09713	2	Capscrew, Hex Head M8 x 1.25 x 35 mm S/S	-
22	15-00705	5	Lock Washer M8 S/S	-
23	12-00814	1	Capscrew, Hex Head M10 x 1.5 x 35 mm	-

**Main Instrument Panel 12 Volt**

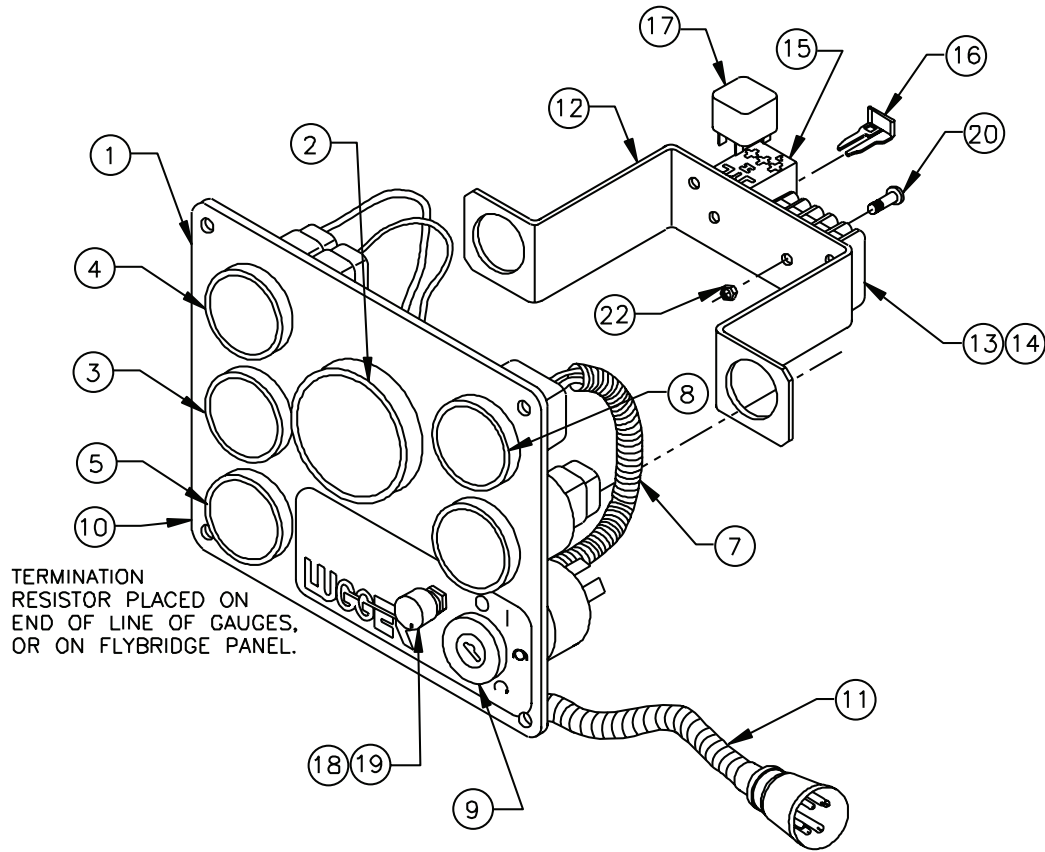


A-10523B/ B-8512

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99706	1	Main Instrument Panel (includes all keys)	-
1	28-90026	1	Plate	-
2	37-90087	1	Tachometer 0-3000 RPM	-
3	37-90089	1	Temperature Gauge 250°F	-
4	37-90091	1	Pressure Gauge 0-100 PSI	-
5	37-90093	1	Alarm Horn	-
6	37-90099	1	Voltmeter 12 Volt	-
7	PVW-J-9	4	Jumper Assembly 9"	-
8	37-90096	1	Hourmeter	-
9	37-94803	1	Key Switch 5 Position	-
10	PVJR	1	Termination Resistor	-
11	22-99708	1	Wire Harness Assembly	-
12	23-99504	1	Bracket, Terminal Strip & Relay	-
13	22-40498	1	Terminal Strip	-
14	22-00088	1	Number Strip	-
15	22-40391	1	Relay Base without Retainer	-
16	22-40393	1	Terminal Retainer	-
17	22-42047	1	Relay, SPDT 12 VDC 50 Amp	-
18	37-40024	1	Potentiometer 1 k Ohm 2 Watt	-
19	37-40026	1	Aluminum Knob	-
20	12-00005	2	Machine Screw, Pan Head #8- 32 x 3/4"	-
21	12-42404	1	Machine Screw, Truss Head #8- 32 x 1/2"	-
22	14-00003	3	Nut, Nylock #8- 32	-
23	00-00013	1	Label "12 Volt" (not shown)	-



Main Instrument Panel 24 Volt

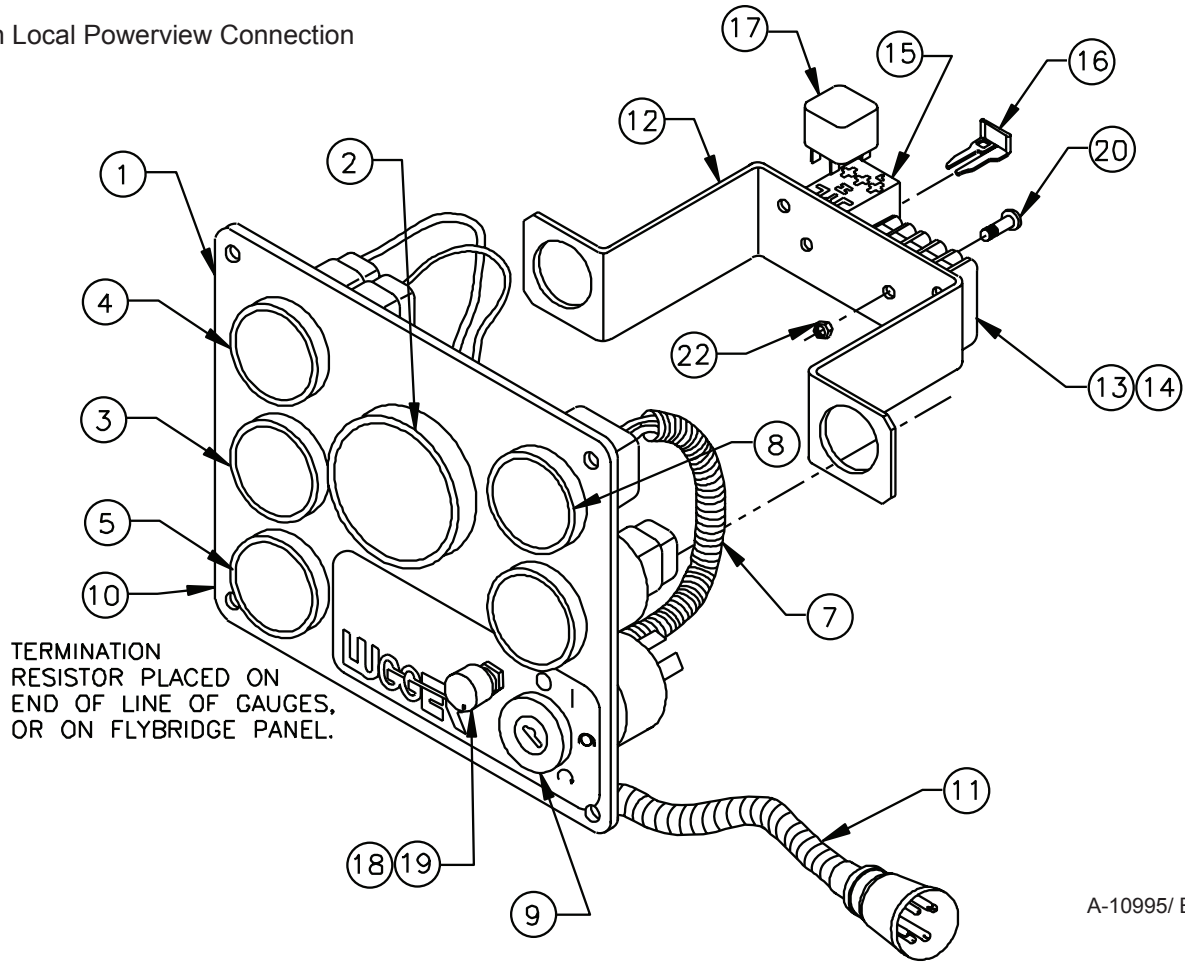


A-10466/ B-8512

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99701	1	Main Instrument Panel (includes all keys)	-
1	28-90026	1	Plate	-
2	37-90087	1	Tachometer 0-3000 RPM	-
3	37-90089	1	Temperature Gauge 250°F	-
4	37-90091	1	Pressure Gauge 0-100 PSI	-
5	37-90093	1	Alarm Horn	-
6	37-90095	1	Voltmeter 24 Volt	-
7	PVW-J-9	4	Jumper Assembly 9"	-
8	37-90096	1	Hourmeter	-
9	37-94803	1	Key Switch 5 Position	-
10	PVJR	1	Termination Resistor	-
11	22-99708	1	Wire Harness Assembly	-
12	23-99504	1	Bracket, Terminal Strip & Relay	-
13	22-40498	1	Terminal Strip	-
14	22-00088	1	Number Strip	-
15	22-40391	1	Relay Base without Retainer	-
16	22-40393	1	Terminal Retainer	-
17	22-40085	1	Relay, SPDT 24 VDC 20 Amp	-
18	37-40024	1	Potentiometer 1 k Ohm 2 Watt	-
19	37-40026	1	Aluminum Knob	-
20	12-00005	2	Machine Screw, Panhead #8- 32 x 3/4"	-
21	12-42404	1	Machine Screw, Truss Head #8- 32 x 1/2"	-
22	14-00003	3	Nut, Nylock #8- 32	-
23	00-00014	1	Label "24 Volt" (not shown)	-

**Main Instrument Panel 12 Volt**

With Local Powerview Connection

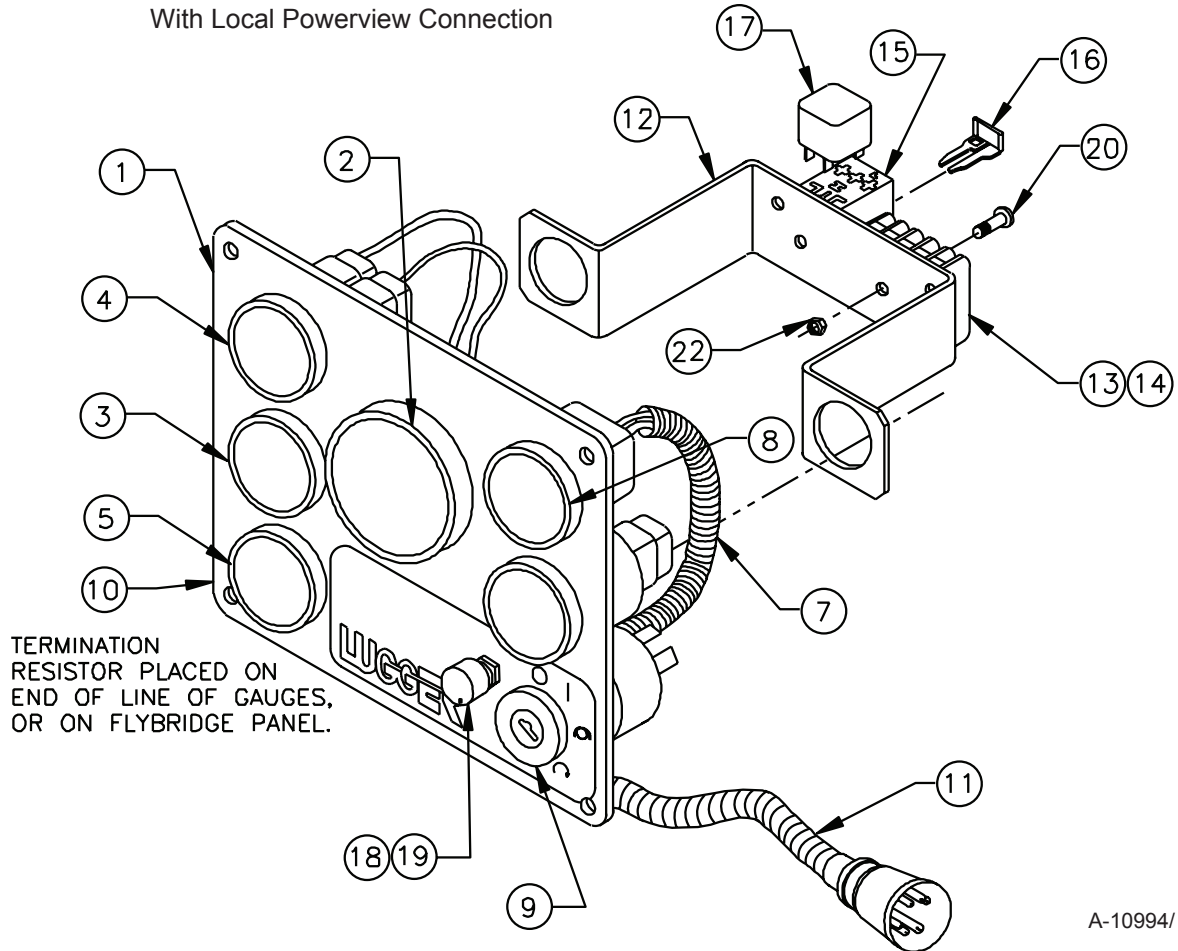


A-10995/ B-8512

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99716	1	Main Instrument Panel (includes all keys)	-
1	28-90026	1	Plate	-
2	37-90087	1	Tachometer 0-3000 RPM	-
3	37-90089	1	Temperature Gauge 250°F	-
4	37-90091	1	Pressure Gauge 0-100 PSI	-
5	37-90093	1	Alarm Horn	-
6	37-90099	1	Voltmeter 12 Volt	-
7	PVW-J-9	4	Jumper Assembly 9"	-
8	37-90096	1	Hourmeter	-
9	37-94803	1	Key Switch 5 Position	-
10	PVJR	1	Termination Resistor	-
11	22-99709	1	Wire Harness Assembly (with Powerview connection)	-
12	23-99504	1	Bracket, Terminal Strip & Relay	-
13	22-40498	1	Terminal Strip	-
14	22-00088	1	Number Strip	-
15	22-40391	1	Relay Base without Retainer	-
16	22-40393	1	Terminal Retainer	-
17	22-42047	1	Relay, SPDT 12 VDC 50 Amp	-
18	37-40024	1	Potentiometer 1 k Ohm 2 Watt	-
19	37-40026	1	Aluminum Knob	-
20	12-00005	2	Machine Screw, Pan Head #8- 32 x 3/4"	-
21	12-42404	1	Machine Screw, Truss Head #8- 32 x 1/2"	-
22	14-00003	3	Nut, Nylock #8- 32	-
23	00-00013	1	Label "12 Volt" (not shown)	-

Main Instrument Panel 24 Volt

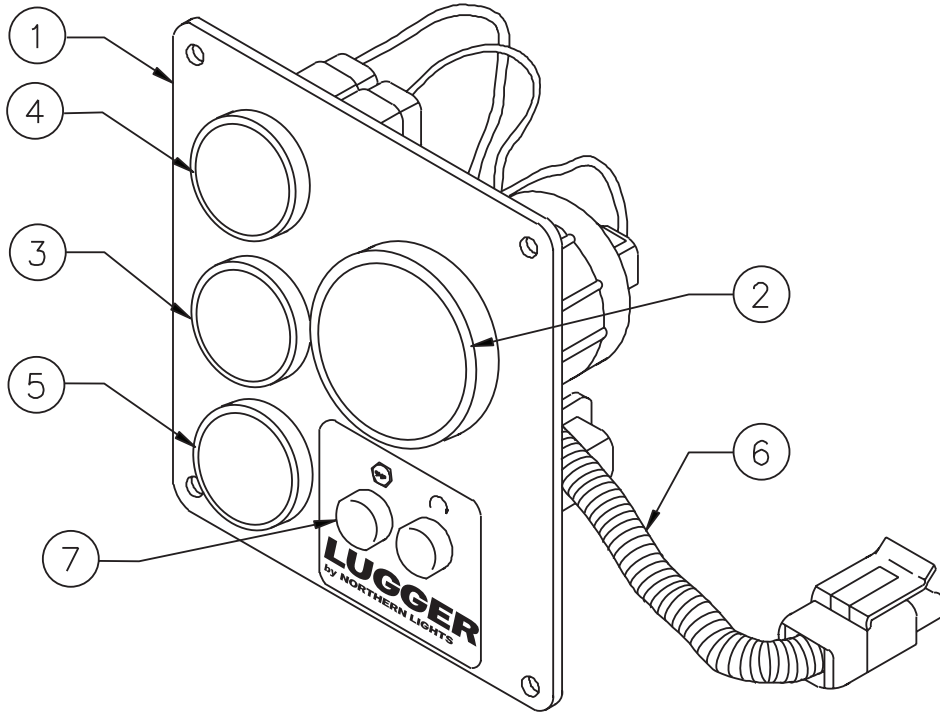
With Local Powerview Connection



A-10994/ B-8512

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99711	1	Main Instrument Panel (includes all keys)	-
1	28-90026	1	Plate	-
2	37-90087	1	Tachometer 0-3000 RPM	-
3	37-90089	1	Temperature Gauge 250°F	-
4	37-90091	1	Pressure Gauge 0-100 PSI	-
5	37-90093	1	Alarm Horn	-
6	37-90095	1	Voltmeter 24 Volt	-
7	PVW-J-9	4	Jumper Assembly 9"	-
8	37-90096	1	Hourmeter	-
9	37-94803	1	Key Switch 5 Position	-
10	PVJR	1	Termination Resistor	-
11	22-99709	1	Wire Harness Assembly (with Powerview connection)	-
12	23-99504	1	Bracket, Terminal Strip & Relay	-
13	22-40498	1	Terminal Strip	-
14	22-00088	1	Number Strip	-
15	22-40391	1	Relay Base without Retainer	-
16	22-40393	1	Terminal Retainer	-
17	22-40085	1	Relay, SPDT 24 VDC 20 Amp	-
18	37-40024	1	Potentiometer 1 k Ohm 2 Watt	-
19	37-40026	1	Aluminum Knob	-
20	12-00005	2	Machine Screw, Panhead #8- 32 x 3/4"	-
21	12-42404	1	Machine Screw, Truss Head #8- 32 x 1/2"	-
22	14-00003	3	Nut, Nylock #8- 32	-
23	00-00014	1	Label "24 Volt" (not shown)	-

**Flybridge Panel 12 & 24 Volt**

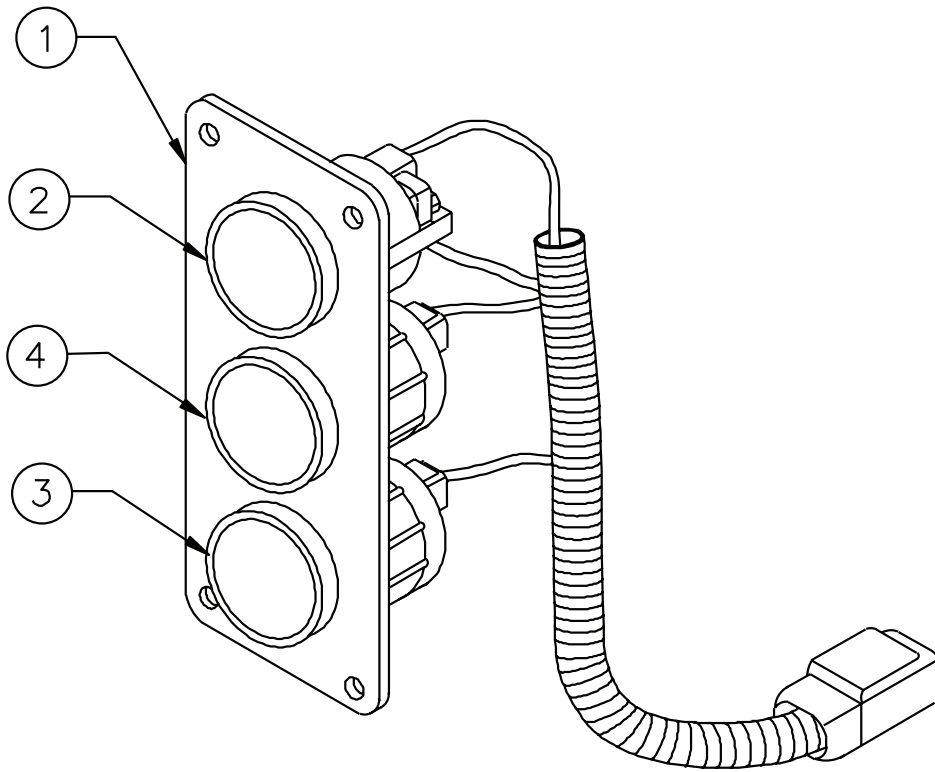


A-10467B/ B-8706

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99702	1	Flybridge Panel (includes all keys)	-
1	28-90027	1	Plate	-
2	37-90088	1	Tachometer 0-3000 RPM	-
3	37-90090	1	Temperature Gauge 250°F	-
4	37-90092	1	Pressure Gauge 0-100 PSI	-
5	37-90094	1	Alarm Horn	-
6	PVW-J-9	3	Jumper Assembly 9"	-
7	37-91007	2	Switch, Push Button	-

**Auxiliary Panel "Ocean Line" 12 and 24 Volt**

Units with 28 PSI Turbo Boost

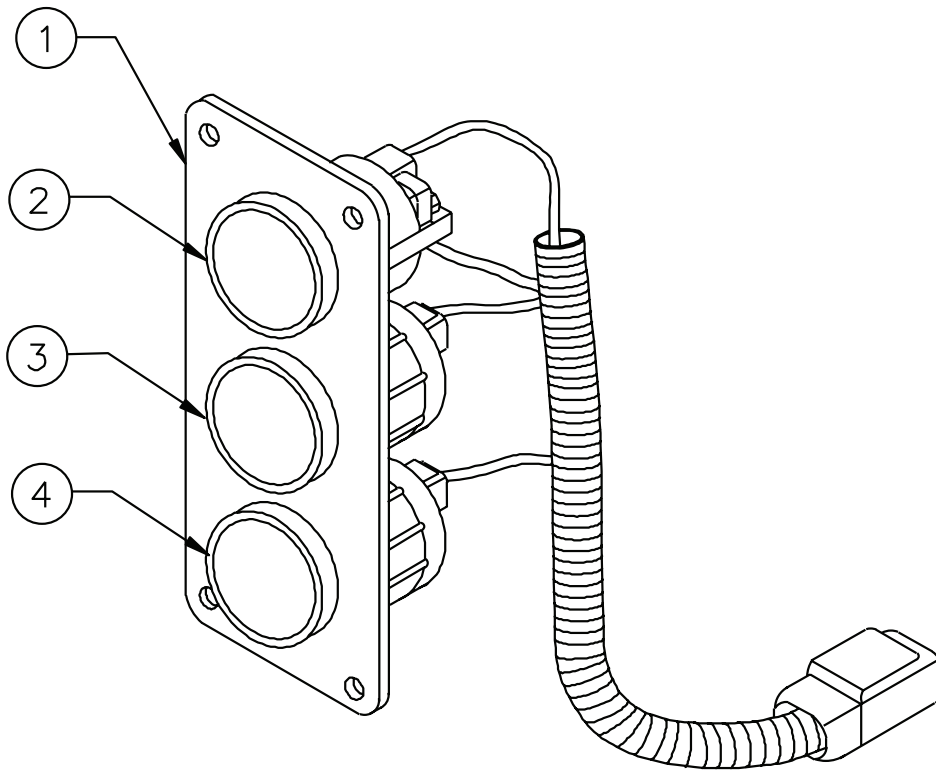


A-11832, A-11830, A-11831, A-11829/ B-8705changed

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99745	1	Auxiliary Panel Kit 12 Volt (includes all keys)	-
••	22-99740	1	Auxiliary Panel Kit 24 Volt (includes all keys)	-
•	22-99744	1	Auxiliary Panel 12 Volt (includes keys #1-5)	-
•	22-99739	1	Auxiliary Panel 24 Volt (includes keys #1-5)	-
1	28-74801	1	Plate	-
2	37-90029-1	1	Pyrometer Assembly 180°F	-
3	37-90083-1	1	Pressure Gauge 0-400 PSI 12 Volt	-
	37-90084-1	1	Pressure Gauge, 0-400 PSI, 24 Volt	-
4	37-90063-1	1	Pressure Gauge 0-28 PSI, 12 Volt	-
	37-90064-1	1	Pressure Gauge 0-28 PSI, 24 Volt	-
5	22-44865	1	Wire Harness	-
6	12-90002	4	Self Tapping Screw #8 x 1 Type AB Phillips*	-
7	22-41004	**	Bulb, Clear 12 Volt	-
	22-41003	**	Bulb, Clear 24 Volt	-
8	22-41094	1	Pressure Sender 0-30 PSI*	-
9	22-40239	1	Pressure Sender 400 PSI*	-
10	21-00139	1	Adapter 1/8 BSPT x 1/8 NPT*	-
11	22-94803	1	Extension Harness 3 Ft.*	-
12	21-34802	1	Connector for Thermocouple (included in #37-90029-1)	-
13	22-40004	1	Resistor Kit (for Pyrometer 24 Volt only)	-
			*Not shown.	
			**As required.	

## Auxiliary Panel "Murphy" 12 and 24 Volt

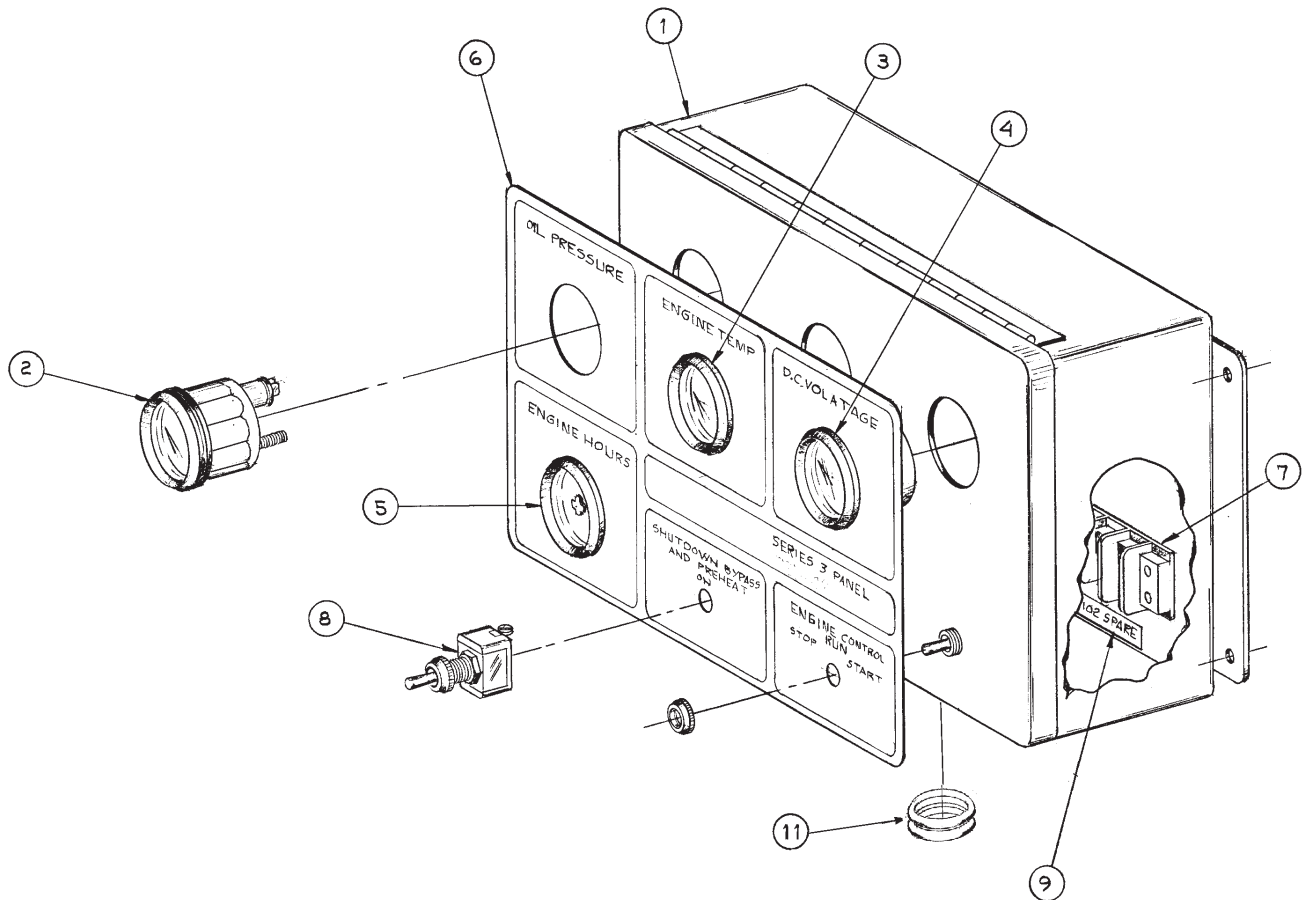
Units with 80 PSI Turbo Boost



A-10515, A-10524, A-10468, A-10870/ B-8705

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99710	1	Auxiliary Panel Kit 12 Volt (includes all keys)	-
••	22-99705	1	Auxiliary Panel Kit 24 Volt (includes all keys)	-
•	22-99707	1	Auxiliary Panel 12 Volt (includes keys #1-5)	-
•	22-99703	1	Auxiliary Panel 24 Volt (includes keys #1-5)	-
1	28-74801	1	Plate	-
2	37-90016	1	Pyrometer Assembly 180°F	-
3	37-90101	1	Pressure Gauge 0-80 PSI	-
	37-90098	1	Pressure Gauge, 0-80 PSI, 24 Volt	-
4	37-90100	1	Pressure Gauge 0-400 PSI, 12 Volt	-
	37-90097	1	Pressure Gauge 0-400 PSI, 24 Volt	-
5	22-40272	1	Bulb 14 Volt	-
	22-40286	1	Bulb 28 Volt } for Pyrometer	-
6	22-40325	**	Diffuser, Green	-
	22-40415	**	Diffuser, Red	-
7	ES2P-80	1	Sender 80 PSI*	-
8	ES2PMK-400	1	Sender 400 PSI*	-
9	21-55201	1	Bushing 3/8 NPT x 1/8 NPT*	-
10	21-00139	1	Adapter 1/8 BSPT x 1/8 NPT*	-
11	22-94803	1	Extension Harness 3 Ft.*	-
12	21-34802	1	Connector for Thermocouple	-
			*Not shown.	
			**As required.	

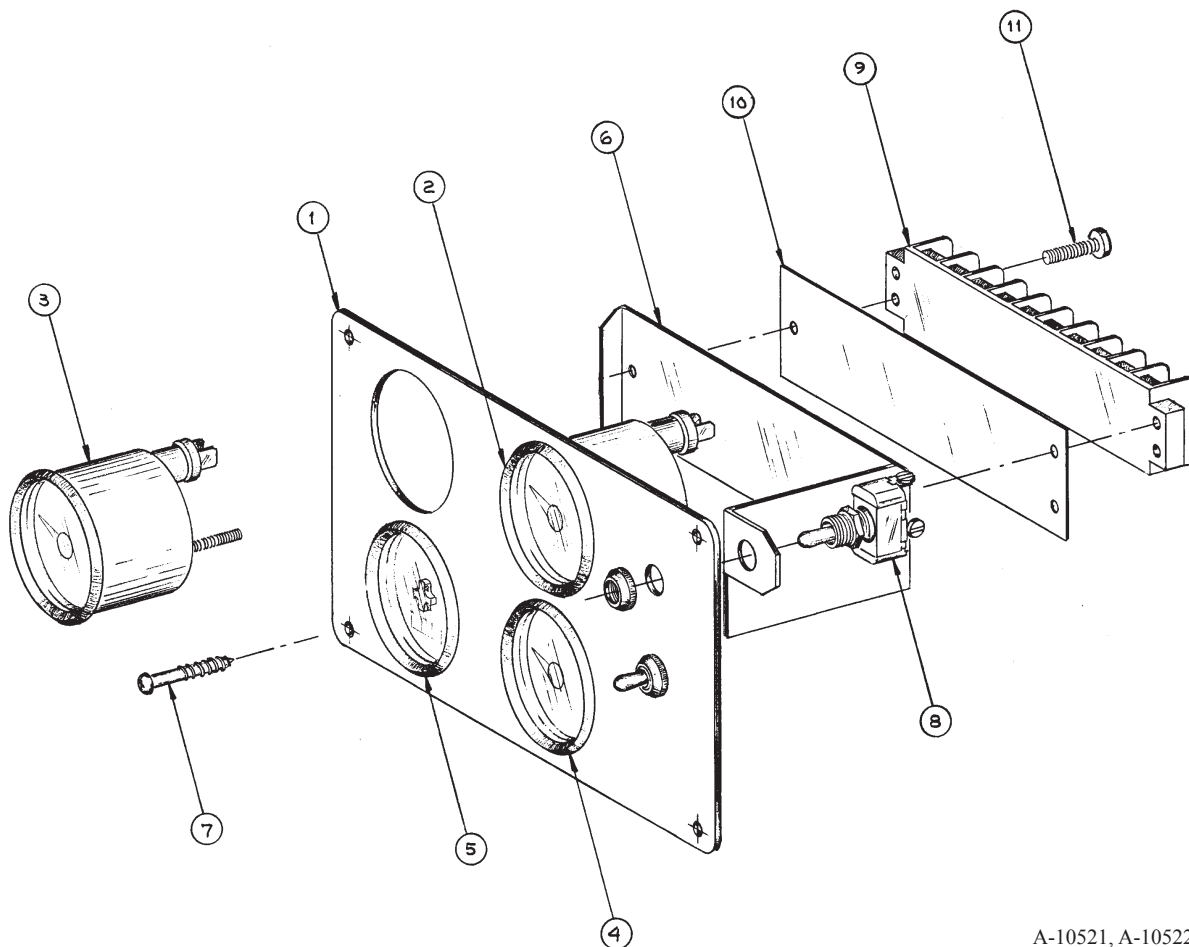
S-3B Control Panel 12 & 24 Volt



A-10525, A-10526/ C-2470

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

**S-3C Control Panel 12 & 24 Volt**

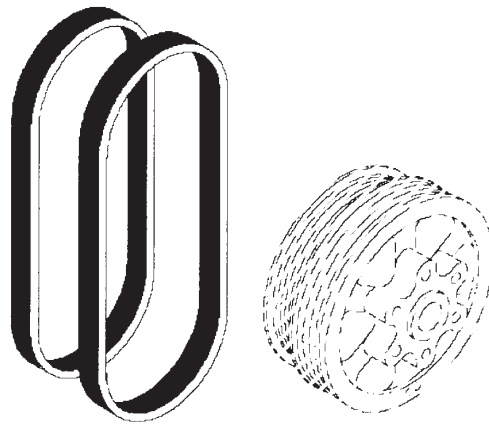


A-10521, A-10522/ C-2465

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



Drive Belts



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RGP6068

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
			Standard Large Frame Size Alternators, Propulsion and Marine 12V/ 160 Amp, 24V/ 75 Amp, 24V/ 100 Amp, and 24V/ 175 Amp	
	40-49702	1	Drive Belt, Poly V-belt, L- M1276	-
			Optional 2nd Alternator Left hand Mounting, 24V/ 75 Amp	
	40-05405	2	Drive Belt, L-M1276	-
			Standard Alternator, Industrial, 24V/ 90 Amp	
	R133696	1	Drive Belt, Poly V-belt, for Alternator NL1276H2	-
	R502461	1	Drive Belt, Poly V-belt, for Fan Drive NL1276H2	-
	R133696	1	Drive Belt, Poly V-belt, for Alternator NL1276H3	-
	R134631	1	Drive Belt, Poly V-belt, for Fan Drive NL1276H3	-

**GROUP 6 - GASKET SETS**

**Gasket Set, Engine**

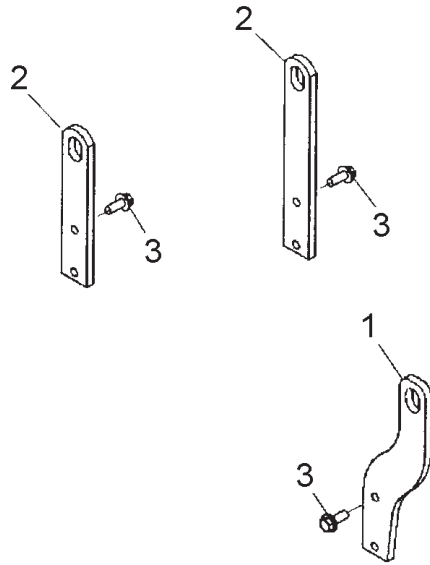
KEY	PART NUMBER	QTY	DESCRIPTION	Deere S/N
••	29-09701	1	Gasket Set (includes all keys)	-
1	R72328	2	O-ring	-
2	R63185	1	O-ring	-
3	R505677	1	Gasket (use with valve cover R116843)	- up to 014582
	R502124	1	Gasket (use with valve cover R505450)	from 014583 -
4	R56461	1	O-ring	-
5	R133651	6	Packing	-
6	R133652	6	Packing	-
	R133653	6	Packing	-
7	R130772	6	Packing	-
8	R26375	3	O-ring	-
9	T77613	7	O-ring	-
10	T77857	1	O-ring	-
11	51M7045	1	O-ring	-
12	R116830	1	Gasket	-
13	51M7041	1	O-ring	-
14	R26448	6	O-ring	-
15	RE57784	1	Cylinder Head Gasket	-
16	R500211	1	Gasket	-
17	R62976	1	O-ring	-
18	R119155	1	Gasket	-
	R500212	1	Gasket	-
19	T70176	1	O-ring	-
	R82459	1	O-ring	-
	T74492	1	O-ring	-
20	R502026	1	V-ring Seal	-
21	R502441	1	V-ring Seal	-
22	R500387	1	Gasket	-
23	R56757	1	O-ring	-
24	E52687	1	O-ring	-
25	R56751	4	O-ring	-
26	R29936	1	O-ring	-
27	R116494	1	Gasket	-
28	R126783	1	Gasket	-
29	R63548	12	O-ring	-
30	U17409	3	O-ring	-
31	R500210	1	Gasket	-
32	R500209	1	Gasket	-
33	R134716	2	O-ring	-
34	R35043	1	Gasket	-
35	R56464	1	O-ring	-
36	R133142	1	Gasket	-
37	R116205	1	Gasket	-
38	R105346	1	Gasket	-
39	R49697	1	Gasket	-
40	R131809	6	Gasket	-
41	R500318	1	O-ring	-
42	T35580	1	O-ring	-
43	R119148	1	Gasket	-
44	R502027	1	Spider	-
45	N102039	4	Plug	-

Gasket Set, Engine *continued*

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
46	RE522632	1	Gasket Set, Engine Overhaul	-
47	11-34804	1	Gasket, Turbo Mtg.	-
48	16-01000	1	O-ring	-
49	11-31014	1	Gasket, Turbo Oil Inlet	-
50	11-31013	1	Gasket, Turbo Oil Return	-
51	16-14804	1	O-ring	-
52	16-15006	2	O-ring	-
53	11-14807	2	Gasket	-
54	R133142	1	Gasket, Thermostat Cover	-
55	11-34808	1	Gasket, Turbo Exhaust Outlet	-
56	16-14802	2	O-ring	-
57	11-14804	2	Gasket	-
58	11-14806	1	Gasket	-
59	11-15001	1	Gasket, Coolant Outlet to Heat Exchanger	-
60	11-19701	1	Gasket, Heat Exchanger & Gear Oil Cooler Outlet	-

GROUP 8 - BASE FRAME AND MOUNTING

Lifting Eyes

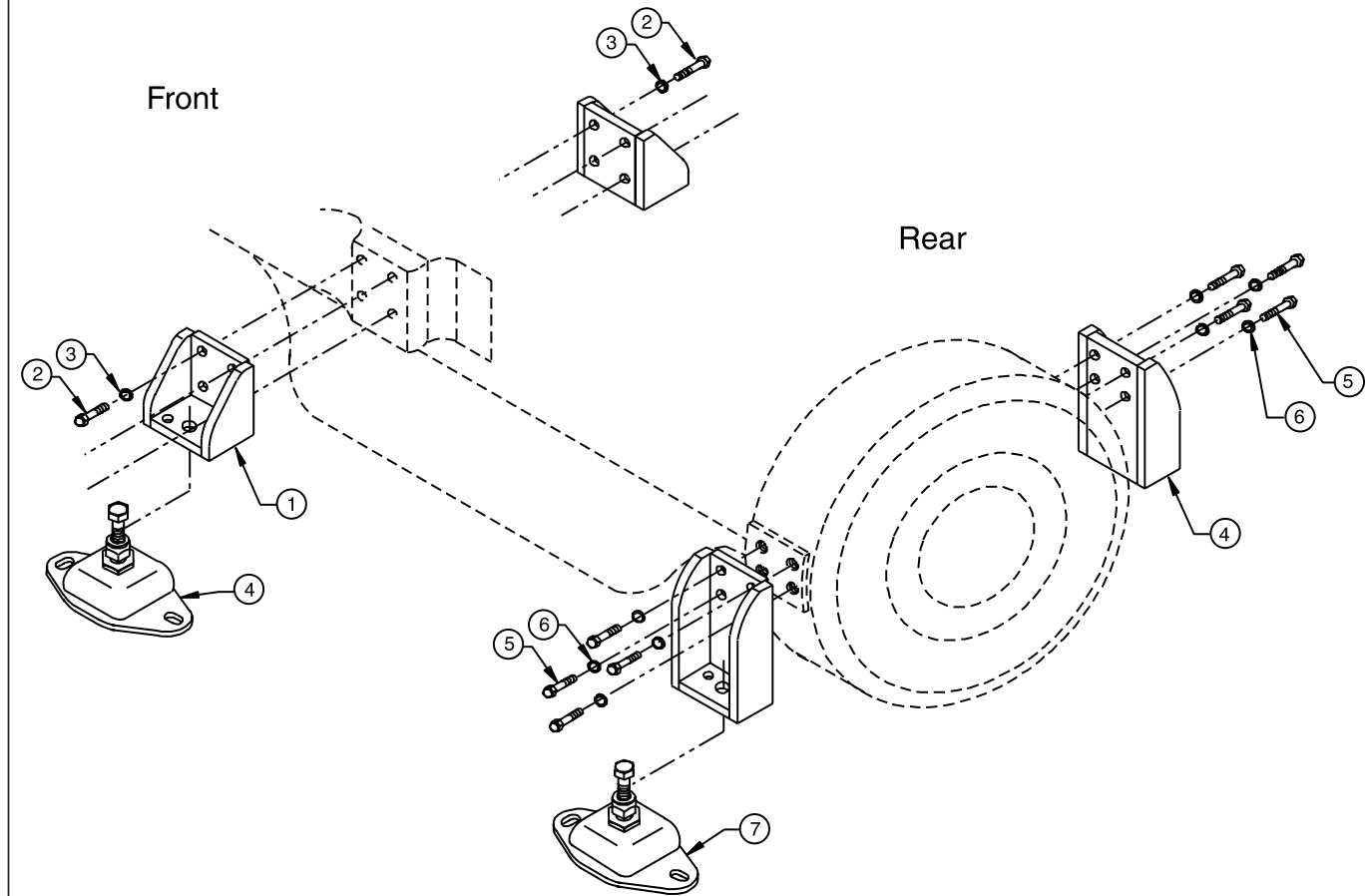


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RE29448RGP01

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R503481	1	Front Lifting Eye	-
2	R128000	1	Rear Lifting Eye (Marine)	-
	R519993	1	Rear Lifting Eye (Industrial)	-
3	19M7789	4	Capscrew, Hex Head Flanged M12 x 1.75 x 30 mm	-

Engine Mounting

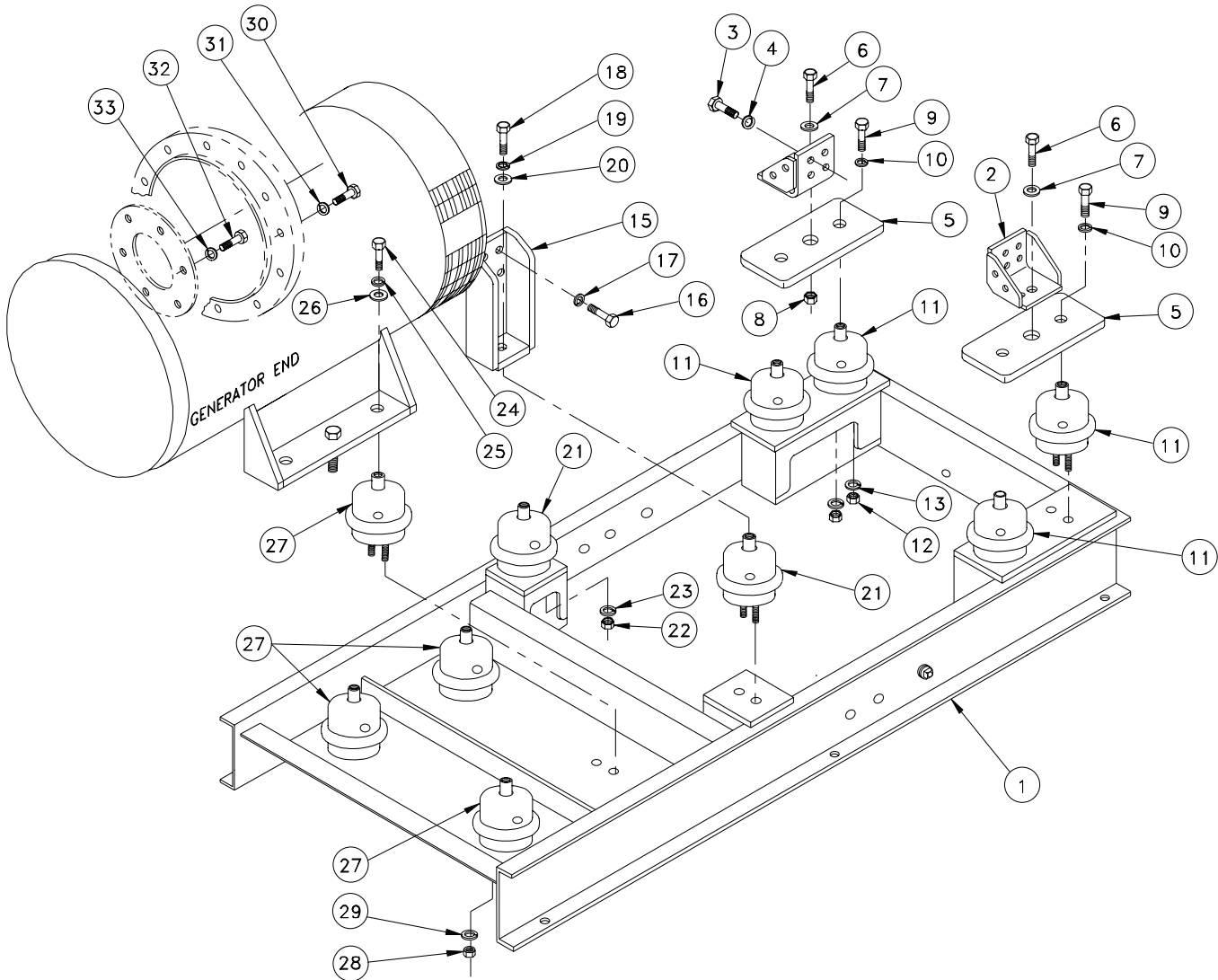


A-10206, A-10207/ B-8449

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	23-89703	2	Bracket, Front Engine Support	-
2	12-01503	8	Capscrew, Hex Head M16 x 2.0 x 50 mm (front)	-
3	15-01000	8	Lock Washer M16 (front)	-
4	23-89704	2	Bracket, Rear Engine Support	-
5	12-00916	8	Capscrew, Hex Head 5/8-11 x 2" (rear)	-
6	15-00902	8	Lock Washer 5/8" (rear)	-
7	33-75098	4	Vibration Mounts, 1540 lbs. (optional)	-

Base Frame

M1276A, A1, A2



A-10755, A-11091/ B-9006

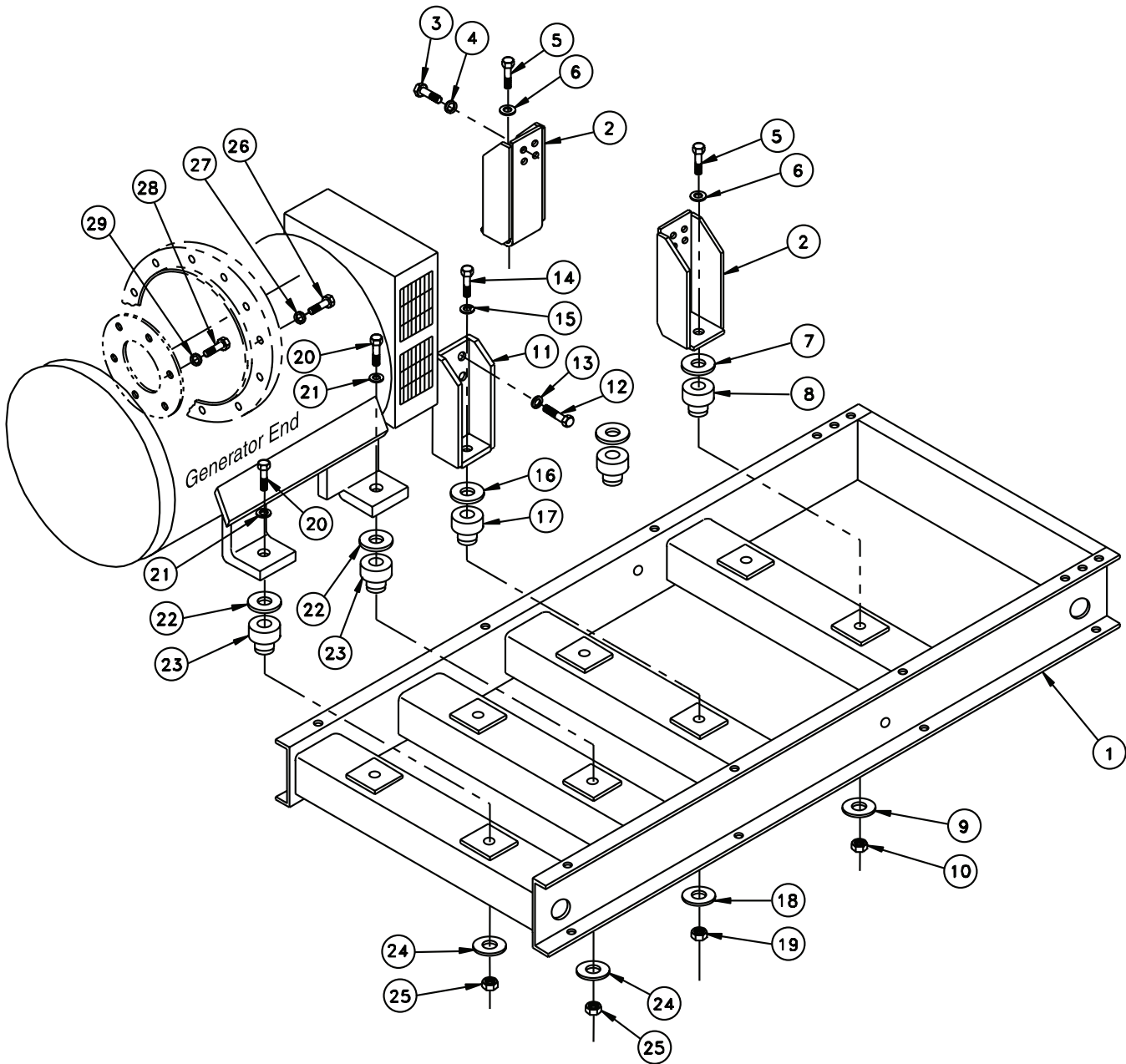
## Base Frame

M1276A, A1, A2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-89702	1	Base Frame, Steel, Hydrolastic Mounts	-
		1	Base Frame, Aluminum, Hydrolastic Mounts	-
2	23-89703	2	Bracket, Front Engine Support	-
3	12-01503	8	Capscrew, Hex Head M16 x 2.0 x 50 mm	-
4	15-01000	8	Lock Washer, Helical M16	-
5	23-89708	2	Bracket, Front Mtg. Adapter	-
6	12-01218	2	Capscrew, Hex Head 3/4- 10 x 2- 1/4"	-
7	15-01221	4	Flat Washer, 3/4" SAE	-
8	14-01212	2	Hex Nut, Nylock 3/4- 10	-
9	12-00913	4	Capscrew, Hex Head 5/8- 11 x 1- 1/2"	-
10	15-00902	4	Lock Washer, Helical 5/8"	-
11	33-81013	4	Hydrolastic Mount, 500 lbs.	-
12	14-00511	8	Hex Nut 1/2- 13	-
13	15-00502	8	Lock Washer, Helical 1/2"	-
14	23-89707	1	Bracket, Rear Engine Mtg. Left hand (not shown)	-
15	23-89706	1	Bracket, Rear Engine Mtg. Right hand	-
16	12-00916	8	Capscrew, Hex Head 5/8- 11 x 2"	-
17	15-00902	8	Lock Washer, Helical 5/8"	-
18	12-00913	2	Capscrew, Hex Head 5/8- 11 x 1- 1/2"	-
19	15-00902	2	Lock Washer, Helical 5/8"	-
20	15-00901	4	Flat Washer 5/8"	-
21	33-81017	2	Hydrolastic Mount, 800 lbs.	-
22	14-00511	4	Hex Nut 1/2- 13	-
23	15-00502	4	Lock Washer, Helical 1/2"	-
24	12-00913	4	Capscrew, Hex Head 5/8- 11 x 1- 1/2"	-
25	15-00902	4	Lock Washer, Helical 5/8"	-
26	15-00901	8	Flat Washer, 5/8"	-
27	33-81013	4	Hydrolastic Mount, 500 lbs.	-
28	14-00511	8	Hex Nut 1/2- 13	-
29	15-00502	8	Lock Washer, Helical 1/2"	-
30	12-00415	12	Capscrew, Hex Head 7/16- 14 x 1- 3/4"	-
31	15-00404	12	Flat Washer 7/16 SAE	-
32	12-00532	8	Capscrew, Hex Head 1/2- 13 x 1" Grade 8 Plate	-
33	15-00509	8	Flat Washer 1/2" SAE Hardened	-

Base Frame

NL1276H1



A-9463/ B-9008



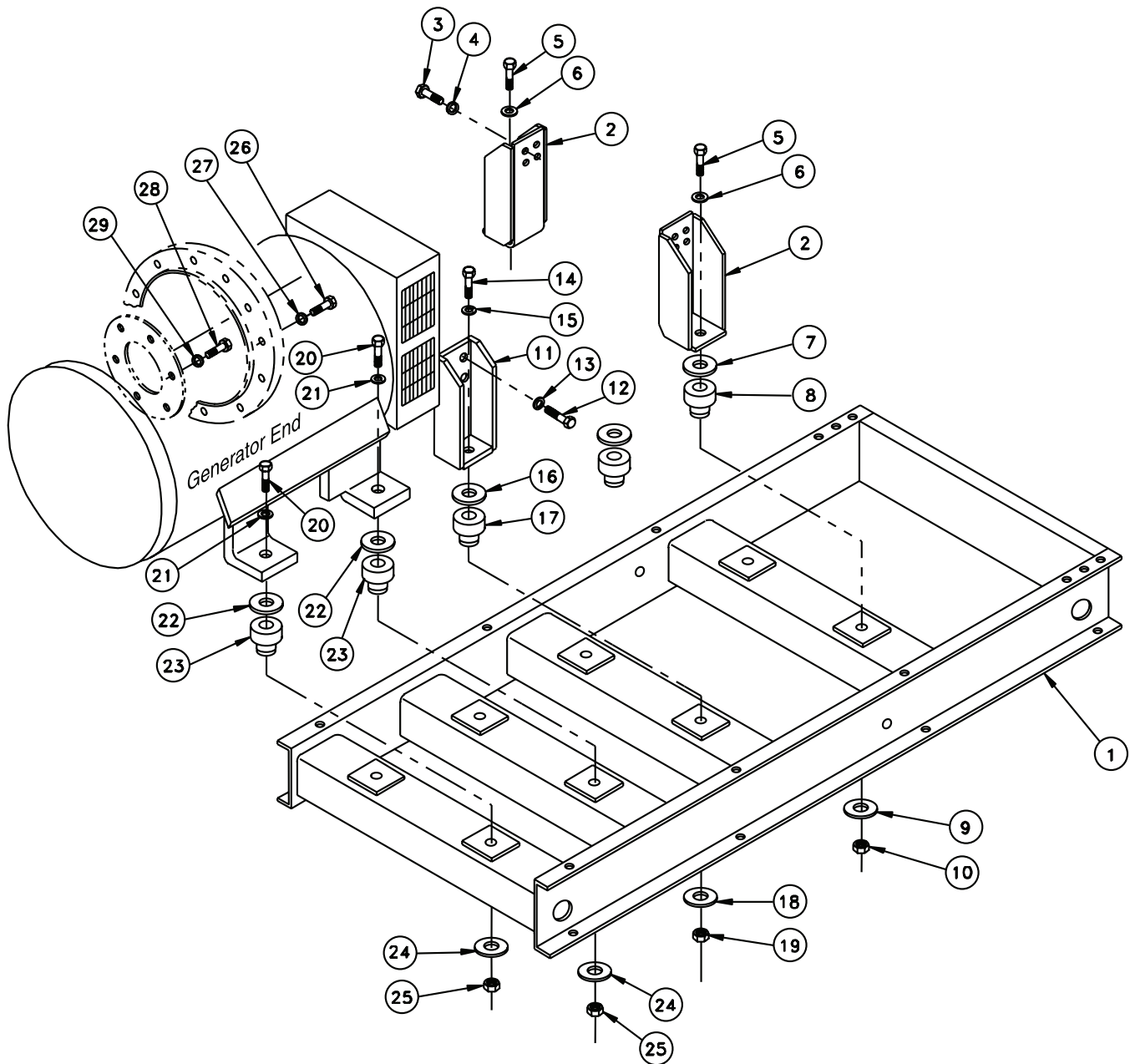
## Base Frame

NL1276H1

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-89701	1	Base Frame, Steel, Centerbonded Mounts	-
2	23-89701	2	Bracket, Front Engine Mtg. Left hand/ Right hand	-
3	12-01512	8	Capscrew, Hex Head M16 x 2.0 x 70 mm	-
4	15-01000	8	Lock Washer, Helical M16	-
5	12-01222	2	Capscrew, Hex Head 3/4- 10 x 4"	-
6	15-01221	2	Flat Washer 3/4" SAE	-
7	15-85000	2	Head Washer 3.25 x .80 x .188	-
8	33-85001	2	Mount, Centerbonded 1050 lbs.	-
9	15-85001	2	Tail Washer 3.0 x .80 x .188	-
10	14-01212	2	Hex Nut, Nylock 3/4- 10	-
11	23-89702	2	Bracket, Rear Engine Mtg. Left hand/ Right hand	-
12	12-01512	4	Capscrew, Hex Head M16 x 2.0 x 70 mm	-
13	15-01000	4	Lock Washer, Helical M16	-
14	12-00552	2	Capscrew, Hex Head 1/2- 13 x 3- 1/2"	-
15	15-00504	2	Flat Washer 1/2" SAE	-
16	15-00016	2	Head Washer 2.38 x .53 x .125	-
17	33-81054	2	Mount, Centerbonded 400 lbs.	-
18	15-00016	2	Head Washer 2.38 x .53 x .125	-
19	14-00512	2	Hex Nut Nylock 1/2- 13	-
20	12-01325	4	Capscrew, Hex Head 5/8- 11 x 4"	-
21	15-00025	4	Tail Washer 2.5 x .64 x .125	-
22	15-00015	4	Head Washer 2.75 x .64 x .125	-
23	33-81008	4	Mount, Centerbonded 650 lbs.	-
24	15-00025	4	Tail Washer 2.5 x .64 x .125	-
25	14-00912	4	Hex Nut, Nylock 5/8- 11	-
26	12-00414	12	Capscrew, Hex Head 7/16- 14 x 1- 1/2"	-
27	15-00402	12	Lock Washer, Helical 7/16	-
28	12-00532	8	Capscrew, Hex Head 1/2- 13 x 1" Grade 8 Plate	-
29	15-00509	8	Flat Washer 1/2 SAE Hardened	-

# Base Frame

NL1276H3



A-11482/ B-9008

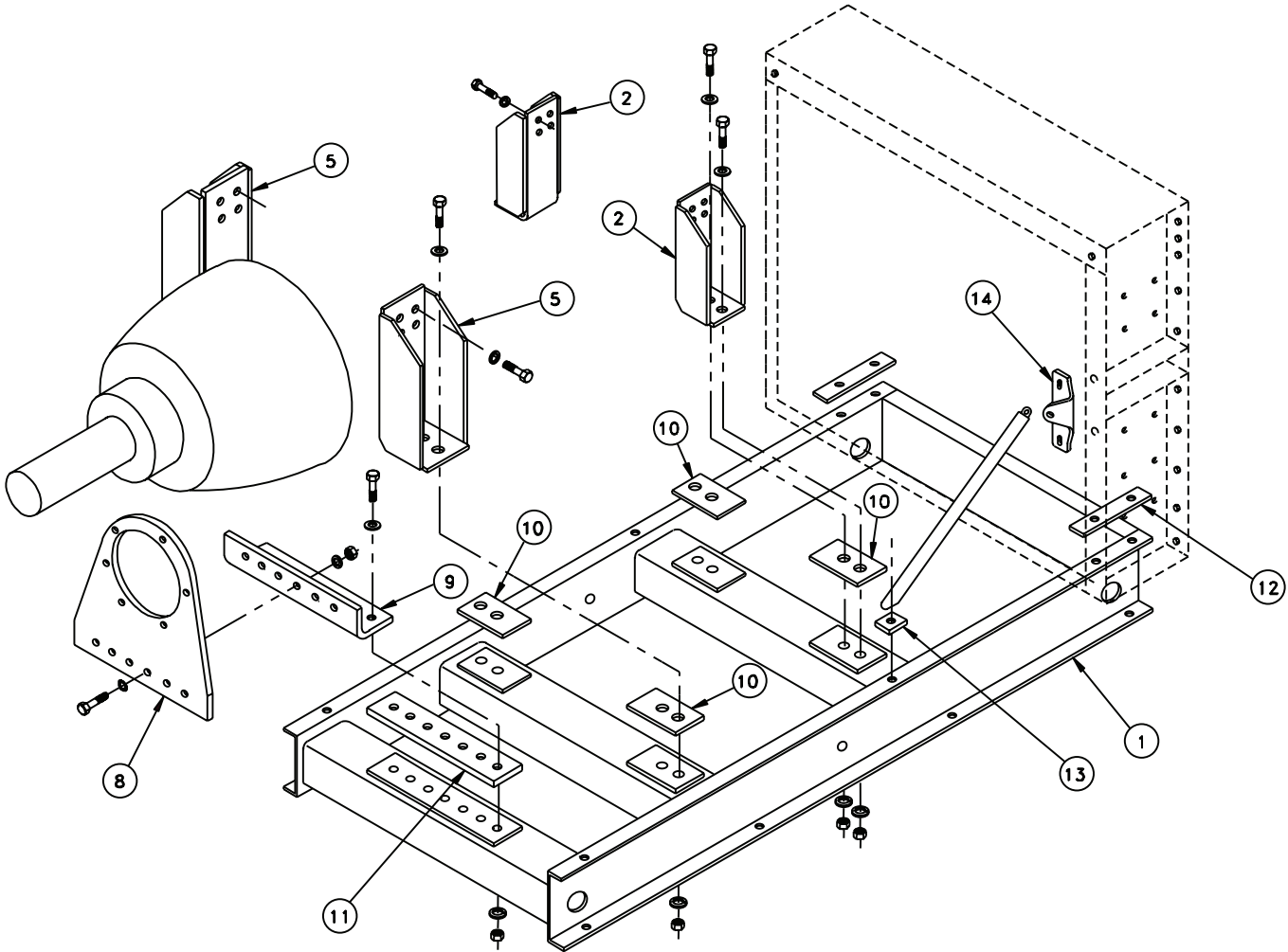
## Base Frame

NL1276H3

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-89704	1	Base Frame, Steel, Centerbonded Mounts	-
2	23-89701	2	Bracket, Front Engine Mtg. Left hand/ Right hand	-
3	12-01512	8	Capscrew, Hex Head M16 x 2.0 x 70 mm	-
4	15-01000	8	Lock Washer, Helical M16	-
5	12-01211	2	Capscrew, Hex Head 3/4- 10 x 3- 1/2"	-
6	15-01221	2	Flat Washer 3/4" SAE	-
7	15-85000	2	Head Washer 3.25 x .80 x .188	-
8	33-85001	2	Mount, Centerbonded 1050 lbs.	-
9	15-85001	2	Tail Washer 3.0 x .80 x .188	-
10	14-01212	2	Hex Nut, Nylock 3/4- 10	-
11	23-89702	2	Bracket, Rear Engine Mtg. Left hand/ Right hand	-
12	12-01512	4	Capscrew, Hex Head M16 x 2.0 x 70 mm	-
13	15-01000	4	Lock Washer, Helical M16	-
14	12-00550	2	Capscrew, Hex Head 1/2- 13 x 3"	-
15	15-00504	2	Flat Washer 1/2" SAE	-
16	15-00016	2	Head Washer 2.38 x .53 x .125	-
17	33-81054	2	Mount, Centerbonded 400 lbs.	-
18	15-00016	2	Head Washer 2.38 x .53 x .125	-
19	14-00512	2	Hex Nut Nylock 1/2- 13	-
20	12-01222	4	Capscrew, Hex Head 3/4- 10 x 4"	-
21	15-01221	4	Flat Washer 3/4" SAE	-
22	15-85000	4	Head Washer 3.25 x .80 x .188	-
23	33-81011	4	Mount, Centerbonded 800 lbs.	-
24	15-85001	4	Tail Washer 3.0 x .80 x .188	-
25	14-01212	4	Hex Nut, Nylock 3/4- 10	-
26	12-00415	12	Capscrew, Hex Head 7/16- 14 x 1- 3/4"	-
27	15-00402	12	Lock Washer, Helical 7/16	-
28	12-00532	8	Capscrew, Hex Head 1/2- 13 x 1" Grade 8 Plate	-
29	15-00509	8	Flat Washer 1/2 SAE Hardened	-

**Base Frame**

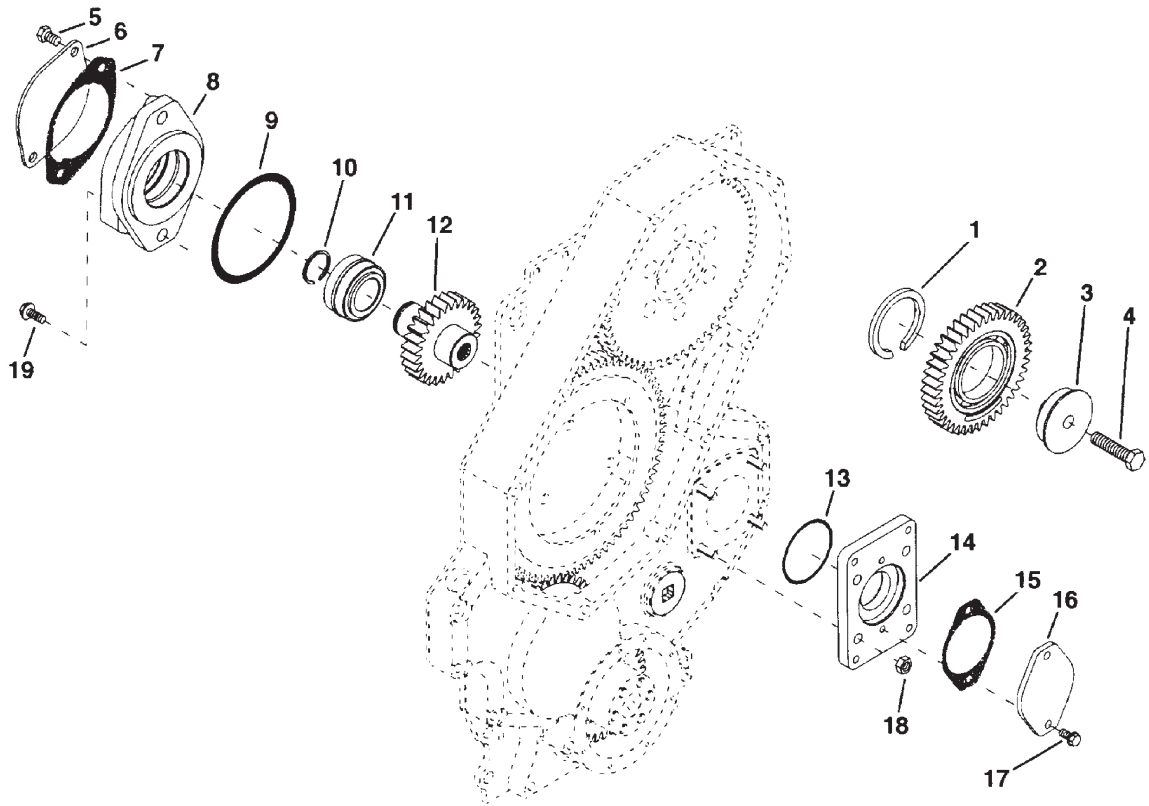
NL1276H2 Power Unit



B-9010

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-89703	1	Base Frame, NL1276H2 Power Unit	-
2	23-89711	2	Bracket, Front Engine Mtg.	-
5	23-89712	2	Bracket, Rear Engine Mtg.	-
8	23-69709	1	Bracket, PTO Support	-
9	23-69711	1	Bracket, PTO Support Anchor	-
10	28-89701	4	Spacer Plate, Engine	-
11	28-89702	1	Spacer Plate, PTO Bracket	-
12	28-89703	2	Spacer Plate, Radiator Support	-
13	28-89704	2	Spacer Plate, Radiator Brace	-
14	23-19717	2	Bracket, Brace Anchor	-

Auxiliary Drive



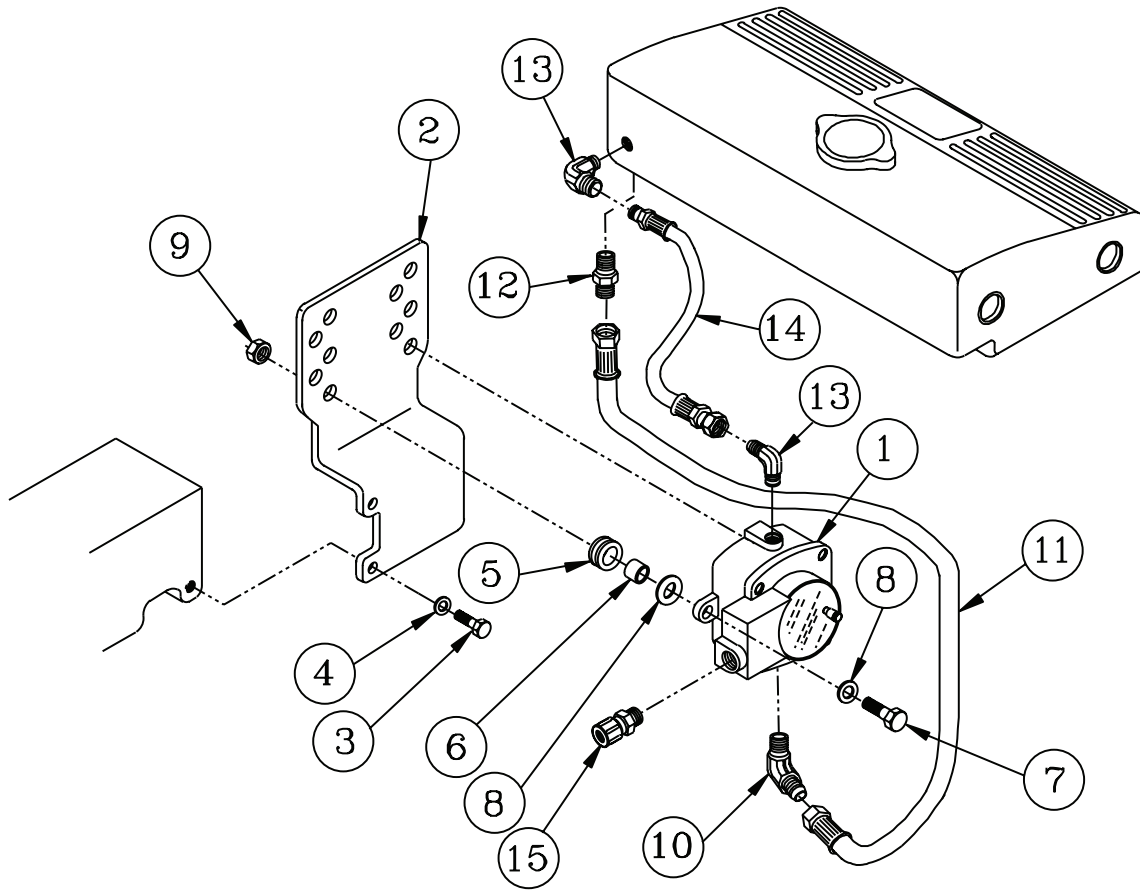
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RGP4916

KEY	PART NUMBER	QTY	DESCRIPTION	ENGINE S/N
••	RE69482	1	Kit	-
1	R63846	1	Snap Ring	-
2	RE66291	1	Gear	-
3	RE128769	1	Support	-
4	19M7824	1	Capscrew, M16 x 60 mm	-
5	19M7789	4	Capscrew, M12 x 30 mm	-
6	R85144	1	Cover	-
7	R501137	1	Gasket	-
8	R130932	1	Housing, "B" Flange	-
9	T70176	1	O-ring	-
10	A2597R	**	Snap Ring (2.895 mm)	-
	T27432	**	Snap Ring (2.743 mm)	-
	R96515	**	Snap Ring (2.450 mm)	-
	R44357	**	Shim (2.311 mm)	-
11	RE33466	1	Tapered Roller Bearing	-
12	R130933	1	Gear	-
13	R82459	1	O-ring	-
14	R130934	1	Housing	up to - 014779
	R504666	1	Adapter	from 014780 -
15	R96935	1	Gasket	-
16	R85145	1	Cover	-
17	19M7784	2	Capscrew, M10 x 20 mm	-
18	14M7296	4	Flange Nut M10	-
19	R136091	2	Screw	-

## Low Coolant Level Switch

Left side Connection to Expansion Tank

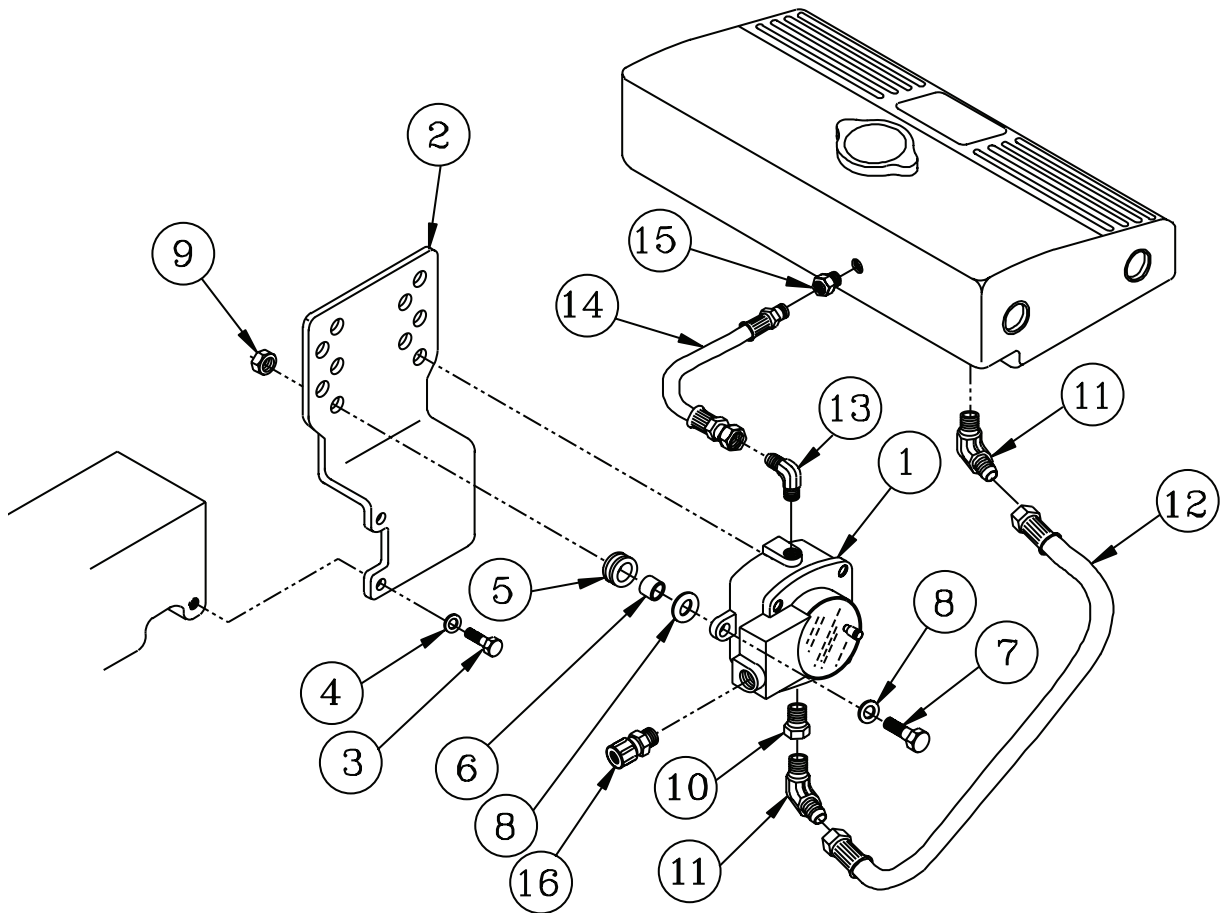


A-10460/ D-3885

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-10003	1	Coolant Level Switch/ Gauge, Isolated Ground	-
2	23-19711	1	Bracket, Coolant Level Switch/ Gauge Mounting	-
3	12-00832	1	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
4	15-00802	1	Lock Washer, Helical M10	-
5	00-41074	2	Grommet	-
6	21-15014	2	Spacer	-
7	12-00032	2	Capscrew, Hex Head M6 x 1.0 x 30 mm	-
8	15-70003	2	Snubbing Washer S/S	-
9	14-04803	2	Hex Nut, Nylock	-
10	21-70011	1	Male Elbow, 90° Steel 1/2 NPT x 3/8- 37T	-
11	18-19701	1	Hose Assembly, 3/8" x 36"	-
12	21-00612	1	Male Connector 1/4 NPT x 3/8- 37T	-
13	21-71044	2	Male Elbow, 90° Brass 1/4 NPT x 1/4- 45T	-
14	18-15408	1	Hose Assembly 1/4" ID x 15"	-
15	00-40016	1	Strain Relief Connector	-

**Low Coolant Level Switch, Short Hoses**

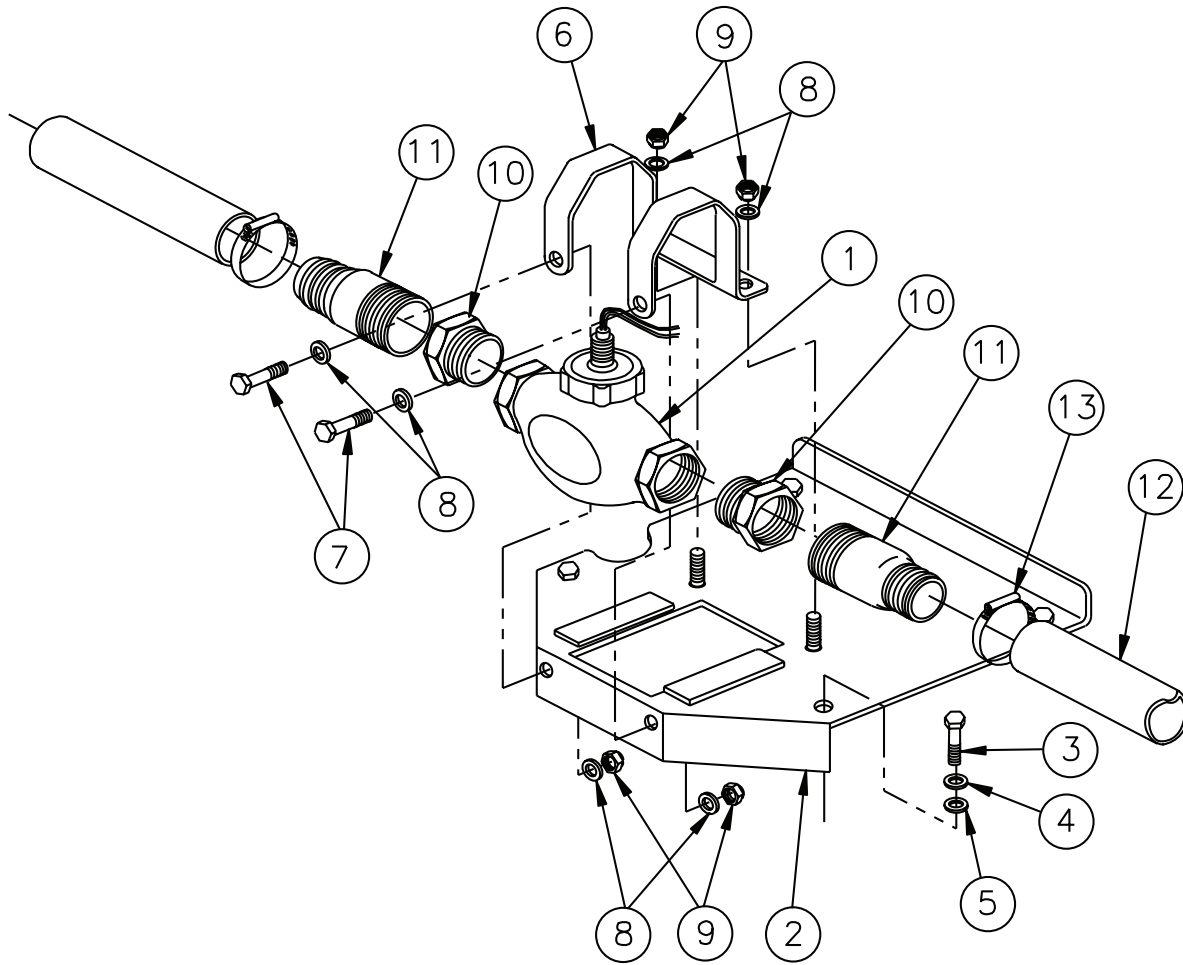
Right side Connection to Expansion Tank



A-10945/ D-3885

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-10003	1	Coolant Level Switch/ Gauge, Isolated Ground	-
2	23-19711	1	Bracket, Coolant Level Switch/ Gauge Mounting	-
3	12-00832	1	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
4	15-00802	1	Lock Washer, Helical M10	-
5	00-41074	2	Grommet	-
6	21-15014	2	Spacer	-
7	12-00032	2	Capscrew, Hex Head M6 x 1.0 x 30 mm	-
8	15-70003	2	Snubbing Washer S/S	-
9	14-04803	2	Hex Nut, Nylock	-
10	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT	-
11	21-00035	2	Male Elbow, 45° Steel 1/4 NPT x 3/8- 37T	-
12	18-15003	1	Hose Assembly 3/8" ID x 9"	-
13	21-71049	1	Male Elbow, 90° Steel 1/4 NPT x 1/4- 37T	-
14	18-15001	1	Hose Assembly 1/4" ID x 7- 3/4"	-
15	21-74406	1	Male Connector, Steel 1/4 NPT x 1/4- 37T	-
16	00-40016	1	Strain Relief Connector	-

**Raw Water Flow Switch**



A-11237/ B-8992

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	37-10002	1	Flow Switch, Bronze 40 GPM 2-1/2" NPT	-
2	23-19713	1	Bracket, Flow Switch Mtg.	-
3	12-00912	4	Capscrew, Hex Head M12 x 1.75 x 25 mm	-
4	15-00912	4	Lock Washer, Helical M12	-
5	15-00007	4	Flat Washer M12	-
6	23-19714	1	Clamp, 2-1/2"	-
7	12-00832	2	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
8	15-00804	4	Wave Washer M10	-
9	14-00811	4	Hex Nut M10 x 1.5	-
10	21-10056	2	Bushing, Brass 2-1/2" NPT x 2" NPT	-
11	21-15713-1	2	Male Connector, Brass 2" NPT x 2" HB	-
12	41-01109	26"	Hose 2" I.D., Wire Reinforced	-
13	19-00036	2	Hose Clamp #36	-







**NORTHERN LIGHTS**

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