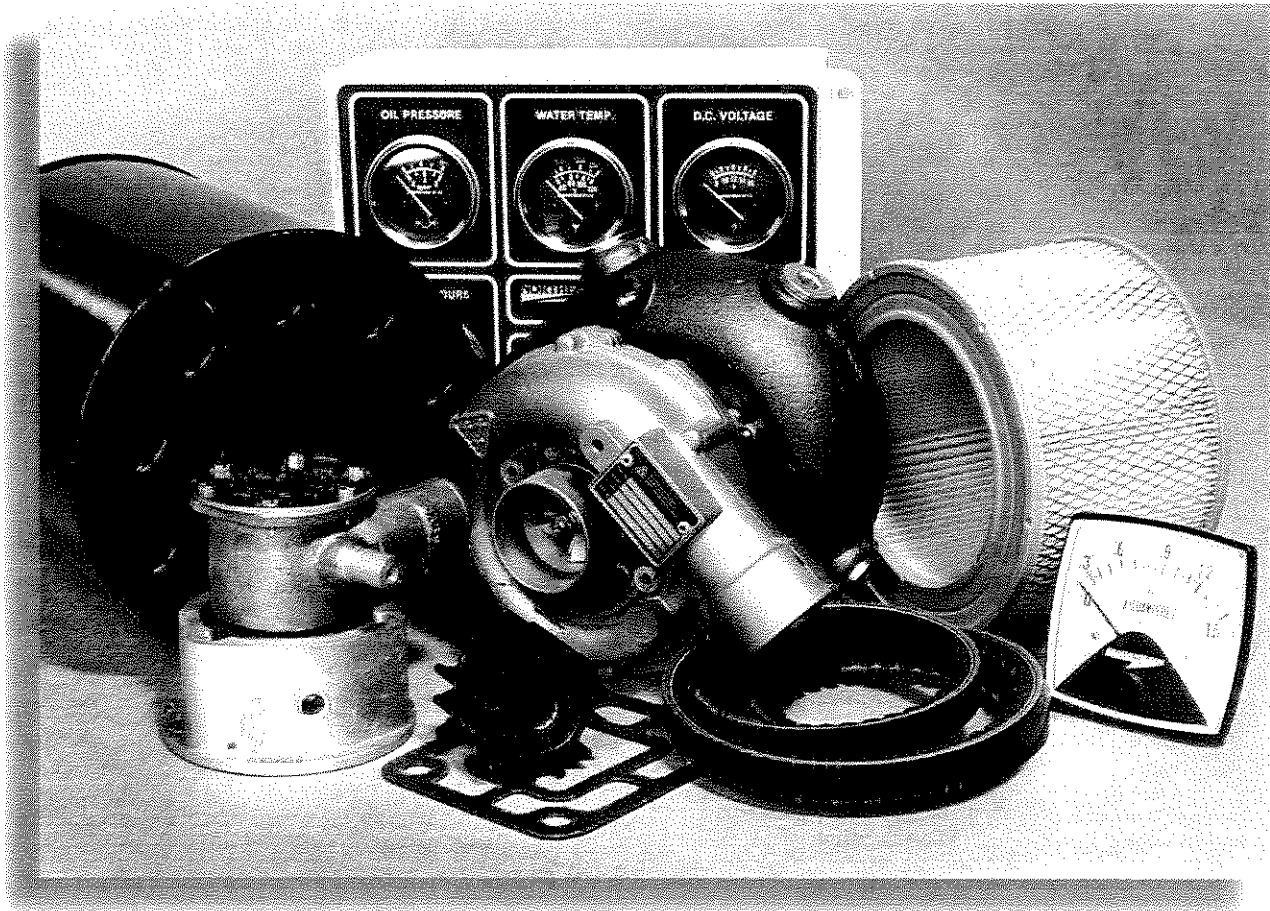


# PARTS CATALOG

Publication #P445PT for models:  
LP445D, LP445T, MP445D, MP445T, MP445H, MP40C,  
MP55C, MP65C, NL445D1, NL445T1, and NL445T2



**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.: P445PT 08/03

# PARTS CATALOG

for Models

LP445D, LP445T, MP445D, MP445T, MP445H, MP40C,  
MP55C, MP65C, NL445D1, NL445T1, NL445T2

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

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## MODEL DESIGNATION

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

**LP - MP - NL**

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

**445**

Base Model #  
 (Deere 4045 Powertech Series engine block)

**D - T - H - C**

Aspiration  
**D** Natural                      **H** High Output  
**T** Turbocharged              **C** Commercial

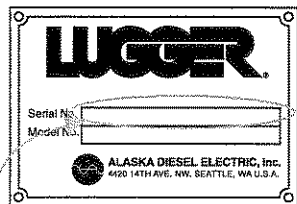
- LP 445 D** = Northern Lights naturally aspirated propulsion engine with a John Deere 4045 engine.
- LP 445 T** = Northern Lights turbocharged propulsion engine with a John Deere 4045 engine.
- MP 445 D** = Northern Lights naturally aspirated marine diesel generator set with a John Deere 4045 engine.
- MP 445 T** = Northern Lights turbocharged marine diesel generator set with a John Deere 4045 engine.
- MP 445 H** = Northern Lights turbocharged high output marine diesel generator set with a John Deere 4045 engine.
- MP 40 C** = Northern Lights naturally aspirated marine diesel generator set with a John Deere 4045 engine, 40 kW.
- MP 55 C** = Northern Lights turbocharged marine diesel generator set with a John Deere 4045 engine, 55 kW.
- MP 65 C** = Northern Lights turbocharged marine diesel generator set with a John Deere 4045 engine, 65 kW.
- NL 445 D** = Northern Lights naturally aspirated industrial diesel engine, with a John Deere 4045 engine.
- NL 445 T** = Northern Lights turbocharged industrial diesel generator set with a John Deere 4045 engine.

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

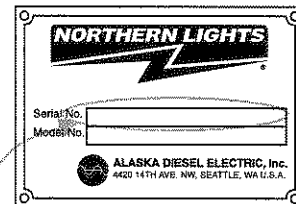
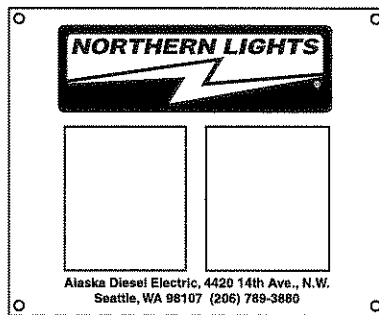
## SERIAL NUMBERS

### NORTHERN LIGHTS

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



*Luger Serial Number*



*Generator Set 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.

1 — ELECTRICAL SYSTEM

**ALTERNATOR ASSEMBLY: M - NL445**

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	-

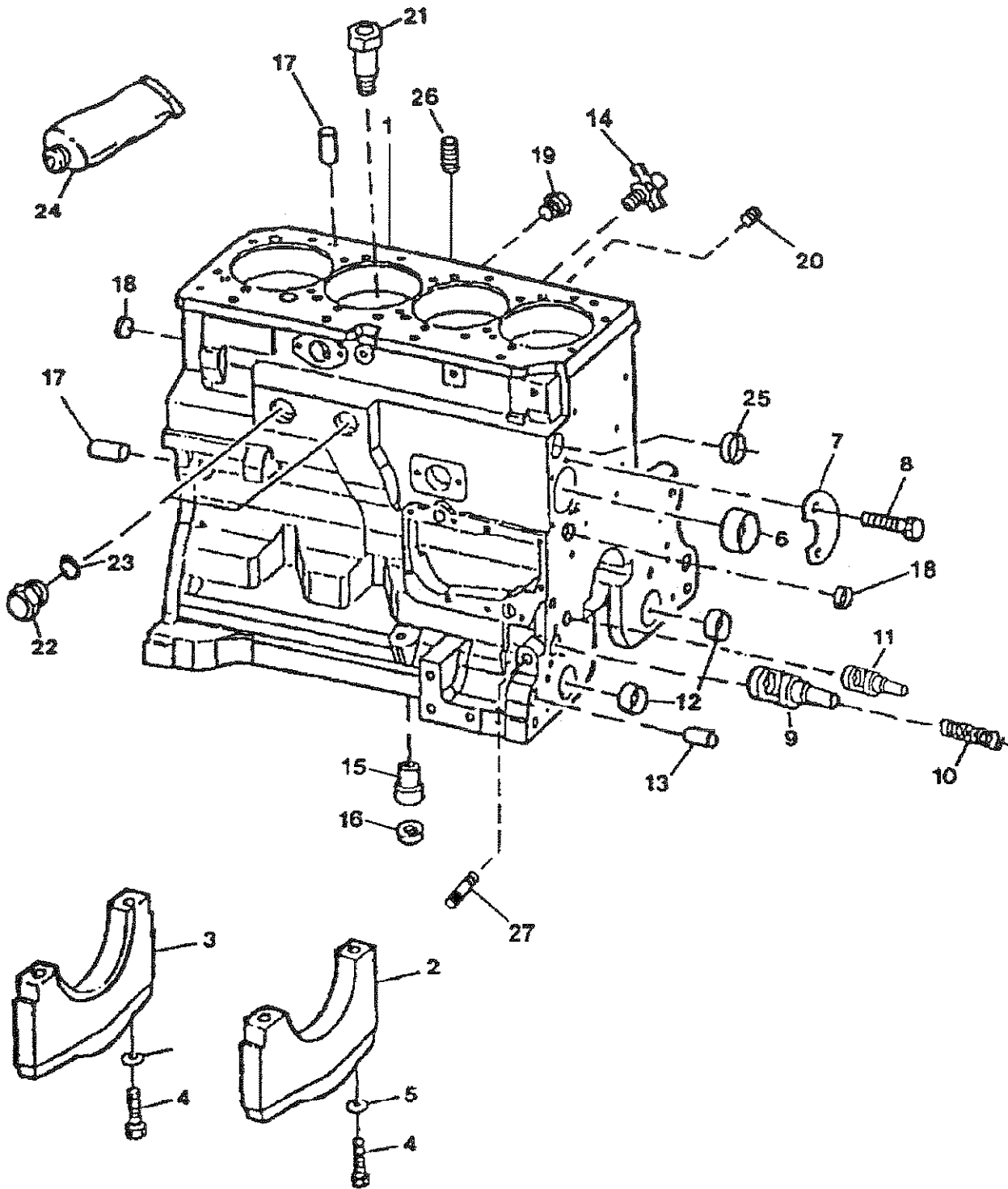
P445 06/00  
5-2

**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.

# Cylinder Block



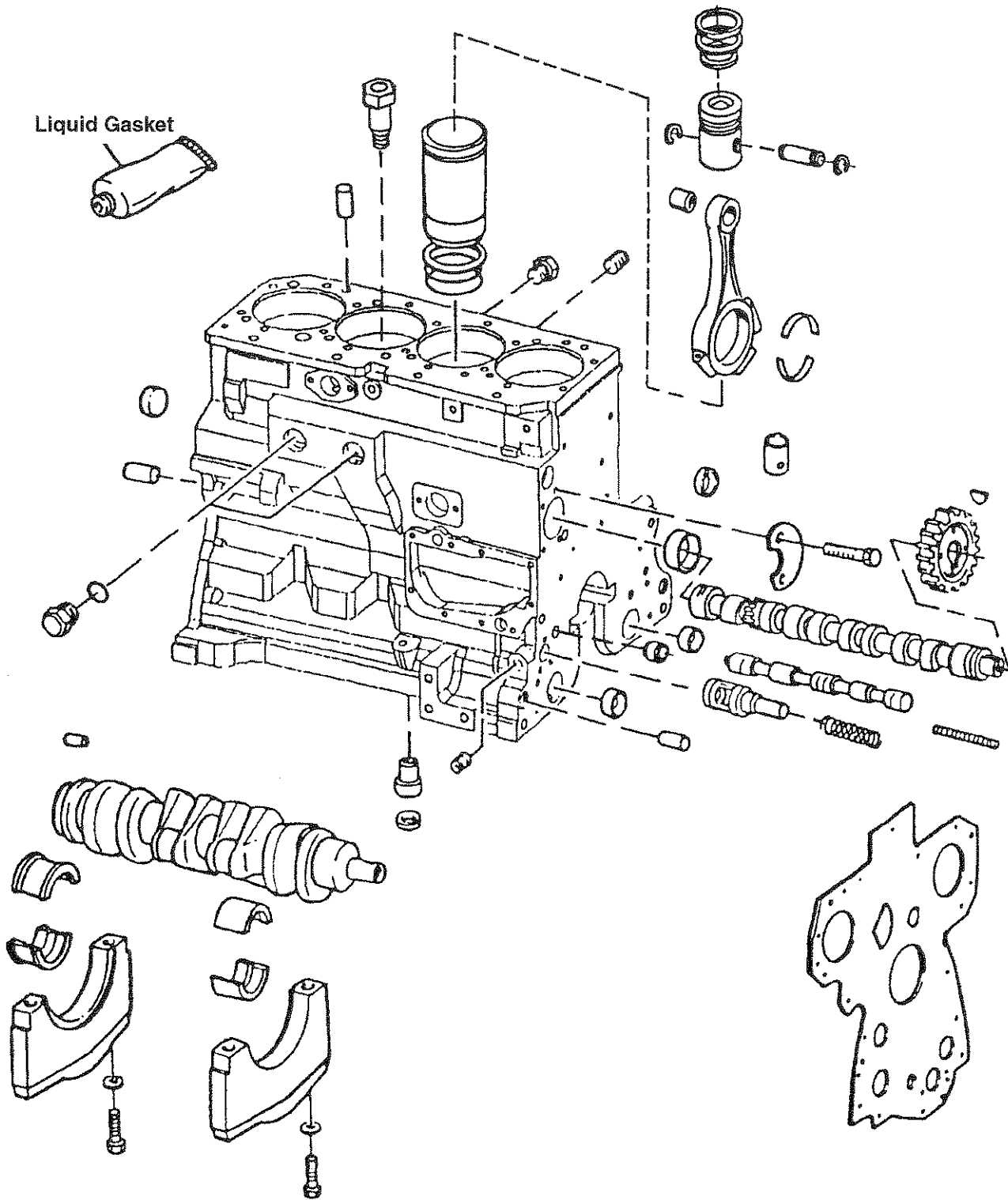
## Cylinder Block

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1		1	Cylinder Block (marked R115081)*	-
2	R114241	4	Bearing Cap	-
3	R132186	1	Bearing Cap	-
4	T23474	10	Cap Screw	-
5	T20168	10	Washer	-
6	R119874	1	Bushing, Camshaft	-
7	R132518	1	Plate	-
8	19M8999	2	Screw, M8 x 25	-
9	R121043	1	Valve, Engine Oil By-pass	-
10	R111137	1	Spring	-
11	RE505501	1	Oil Pressure Regulating Valve **	-
12	R115299	6	Bushing, Balancer Shaft	-
13	R26650	2	Dowel Pin	-
14	AT13740	1	Drain Valve	-
15	R115390	1	Receptacle Connector Body	-
16	R75892	1	O-ring	-
17	R48685	2	Dowel Pin	-
18	T18891	2	Cap	-
19	R55233	1	Pipe Plug	-
20	R104592	5	Pipe Plug	-
21	R131182	4	Orifice	-
22	R39741	2	Plug	-
23	U13639	2	O-ring	-
24	T43514	1	Gasket	-
25	R116466	1	Plug	-
26	15H624	1	Pipe Plug, 1/2" NPT	-
27	15H623	1	Pipe Plug, 3/8" NPT	-

\*Not available separately - see short block listing.

\*\* Replaces Regulating Valve R83169, Spring T27658, and Bushing R26493.

# Cylinder Block

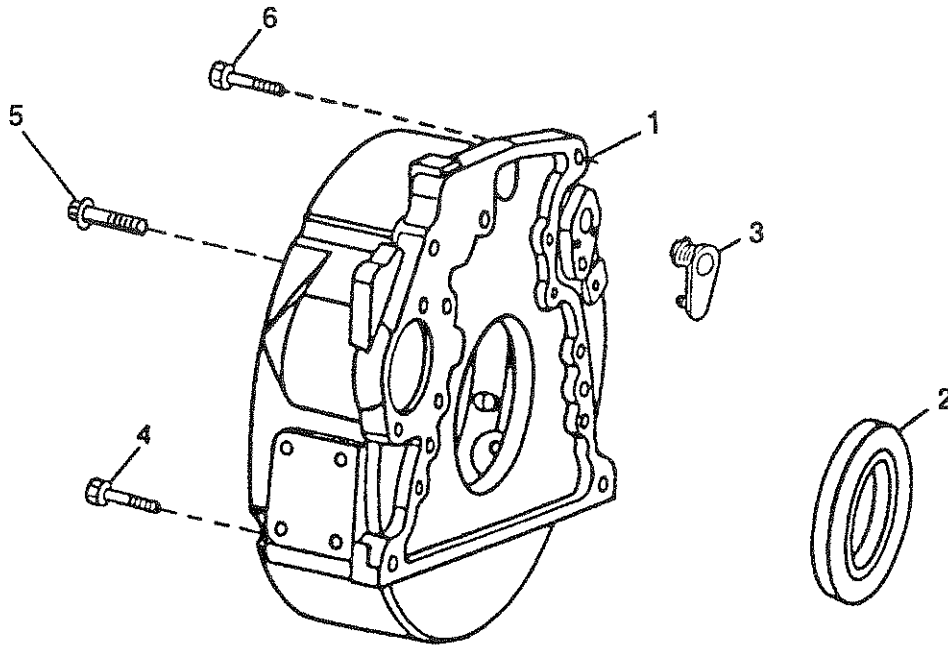




## Cylinder Block

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	RE516100	1	Short Block (LP- MP445D & NL445D1, previously RE65952)	-
	RE516099	1	Short Block (MP445T & NL445T1, previously RE65954)	-
	RE516101	1	Short Block (LP445T- MP445H & NL445T2, previously RE65958)	-

**Flywheel Housing SAE #4**

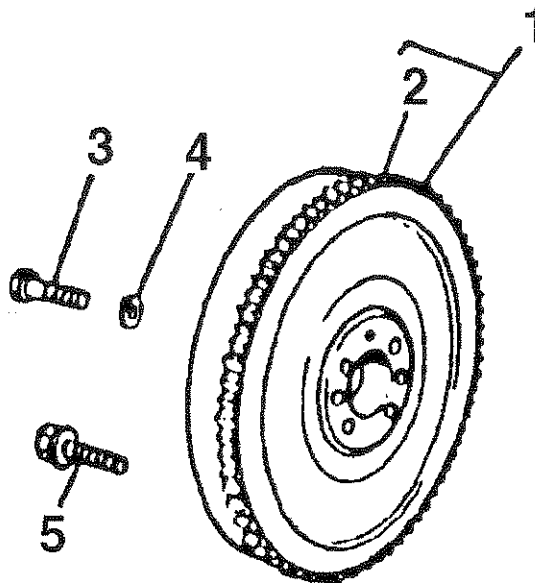


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TP54927

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R503447	1	Housing (SAE #4 formerly #'s R501333 & R121791)	-
2	RE44574	1	Seal	-
3	R131765	1	Plug	-
4	19M7838	2	Capscrew, M12 x 130	-
5	R135918	8	Bolt	-
6	19M8306	2	Capscrew, M12 x 50	-

**Flywheel SAE #10**

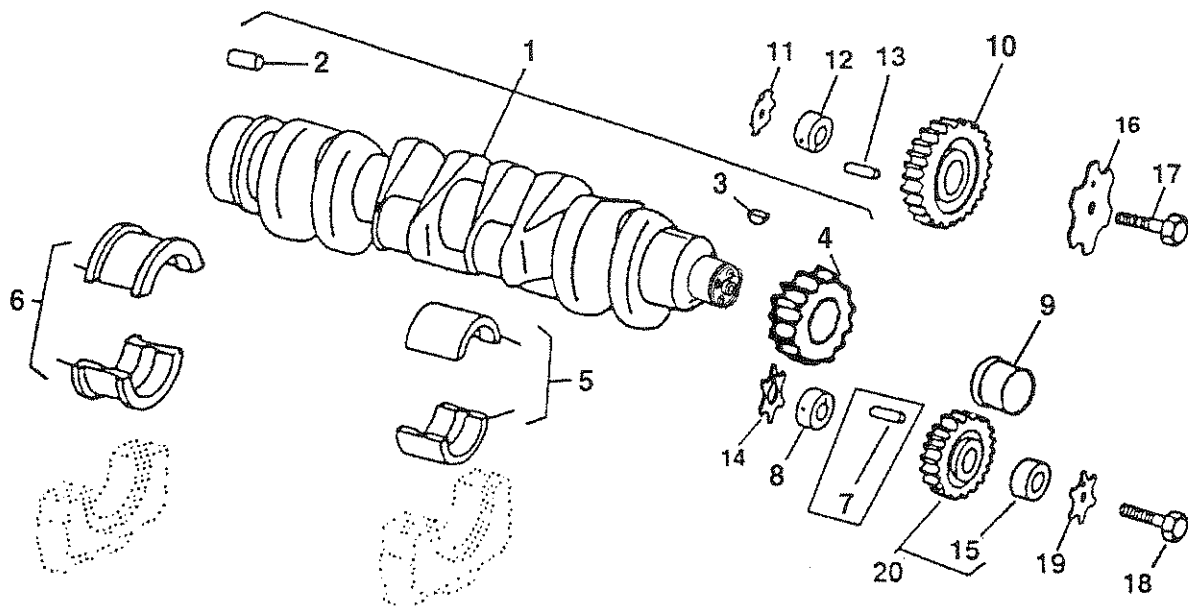


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TP58401

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	RE58574	1	Flywheel SAE #4 (marked R122409, includes key #2)	-
2	R114282	1	Gear (142 teeth)	-
3	19M7493	**	Capscrew, M12 x 40	up to - 708963
4	T77258	**	Washer	up to - 708963
5	R135918	4	Bolt	from 708964 -
			** As required	

# Crankshaft and Main Bearings

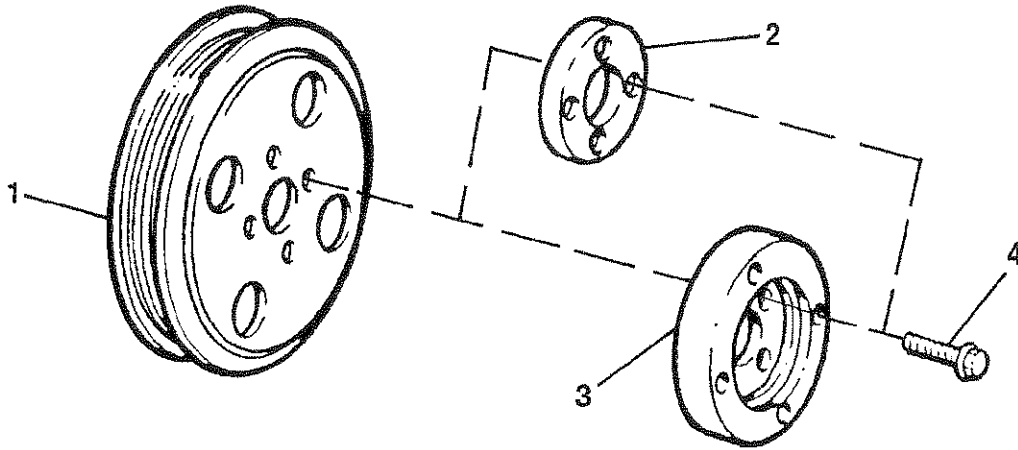


## Crankshaft and Main Bearings

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	RE504638	1	Crankshaft (marked R113596, also order #9, includes key #2, formerly #RE50618)	-
2	R48685	1	Dowel Pin	-
3	26M4224	1	Shaft Key	-
4	R120631	1	Gear (30 teeth)	-
5	RE65165	4	Bearing Kit (Standard)	-
	RE65911	4	Bearing Kit (undersize .254 mm)	-
6	RE65168	1	Thrust Bearing Kit (Standard)	-
	RE65912	1	Thrust Bearing Kit (undersize .254 mm)	-
7	34H283	**	Spring Pin	-
8	R114194	1	Shaft, Lower	-
9	RE59811	1	Sleeve (with installation tool)	-
10	RE56313	1	Gear, Upper Idler (marked R120635)	-
11	R123174	1	Lock Washer	-
12	R120641	1	Shaft, Upper	-
13	34H288	1	Spring Pin	-
14	R101225	1	Thrust Washer	-
15	R114193	1	Bushing	-
16	R131206	1	Thrust Washer	-
17	19M8997	1	Screw, M10 x 65	-
18	19M8966	1	Screw, M10 x 50	-
19	R131283	1	Thrust Washer	-
20	RE56369	1	Gear, Lower Idler (includes key #21)	-

\*\* As required

**Crankshaft Pulley**

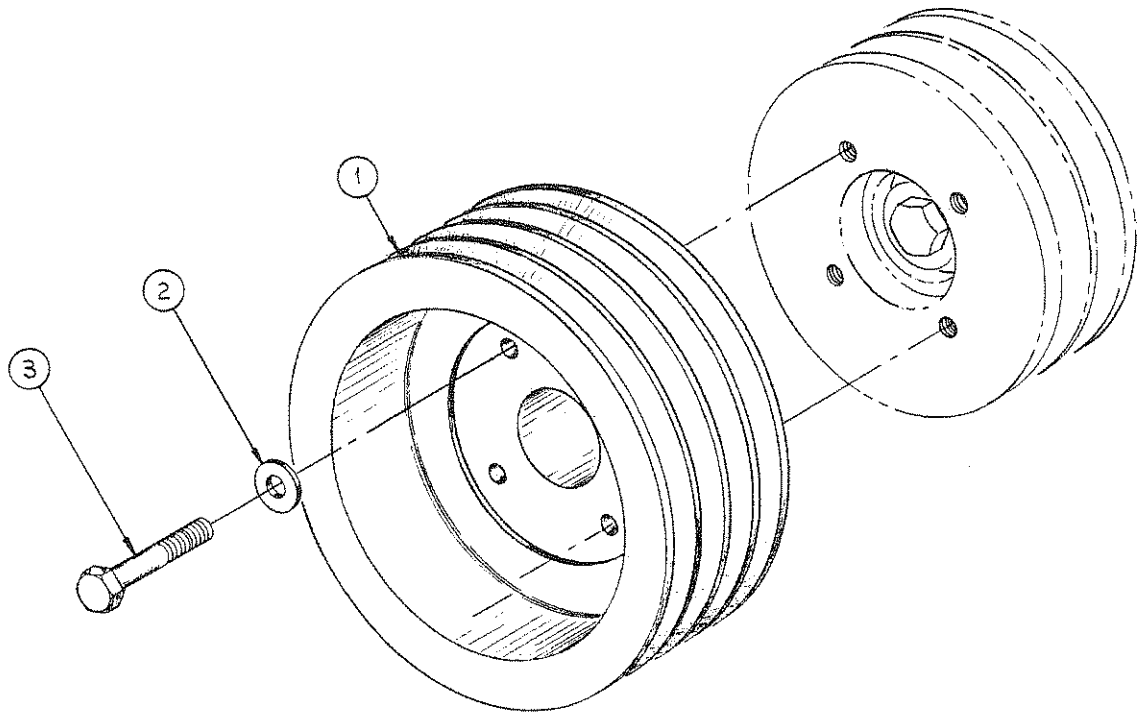


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TP49052

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R133296	1	Pulley, 188 mm O.D.*	-
	R133295	1	Pulley, 168 mm O.D.**	-
2	R500649	1	Flange (NL445 All)	-
3	R123486	1	Adapter (LP-MP 445 All)	-
4	R121897	4	Capscrew, Hex Head, Flanged M10 x 1.25 x 50 mm (Grade 10.9)	-
			*For Models LP-MP445T-H	
			**For Models NL445D1/T1/T2 and LP-MP445D	

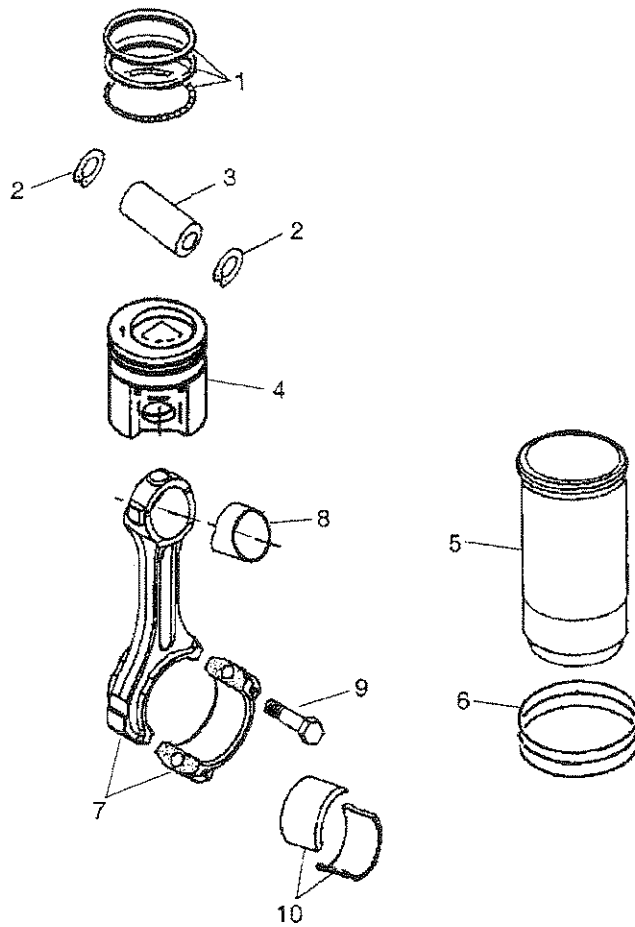
## Crankshaft Pulley



A-8582, A-8583/ B-3732

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

# Cylinder Liner Assembly and Connecting Rod



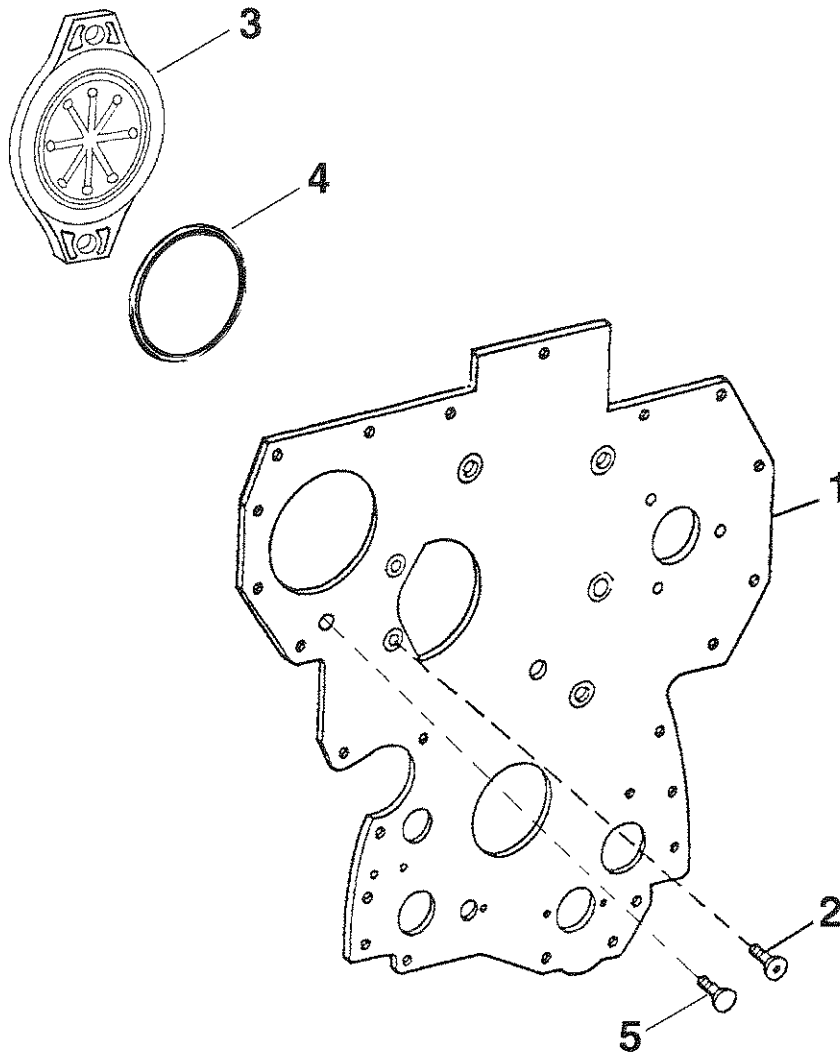


**Cylinder Liner Assembly and Connecting Rod**

KEY	PART NUMBER	QTY	DESCRIPTION	Deere S/N
••	RE505110	4	Piston-Liner Kit (LP-MP445D & NL445D1, includes keys 1 & 4-6, formerly #RE65966)	-
••	RE505111	4	Piston-Liner Kit (MP445T & NL445T1, includes keys 1 & 4-6, formerly #RE65967, marked RE505100 replaced by RE507920)	-
••	RE507920	4	Piston-Liner Kit (MP445T & NL445T1, includes keys 1 & 4-6, formerly RE505111, marked RE515373)	-
••	RE505112	4	Piston-Liner Kit (LP445T-MP445H & NL445T2, includes keys 1 & 4-6, formerly #RE65969, marked RE505102 replaced by RE507850)	-
••	RE507850	4	Piston-Liner Kit (LP445T-MP445H & NL445T2, includes keys 1 & 4-6, formerly #RE505112, marked RE509540)	-
1	RE66271	4	Piston Ring Kit (LP445D - MP445T - NL445T use with RE505110 & RE505111)	-
	RE507852	4	Piston Ring Kit (LP445T - MP445H - NL445T2, formerly #RE66820 use with RE507920, RE505112, & RE507850)	-
2	M41029	8	Snap Ring (LP- MP445D - MP445T - NL445T1)	-
	R54114	8	Snap Ring (LP445T - MP445H - NL445T2)	-
3	R123178	4	Piston Pin (LP- MP445D - MP445T - NL445T1)	-
	R123177	4	Piston Pin (LP445T - MP445H - NL445T2)	-
4			Piston	-
5			Cylinder Liner } Not available separately	-
6	AR65507	4	O-ring Kit (Cylinder Liner)	-
7	RE60272	4	Connecting Rod (Marked R123959, replaced by RE500002, LP-MP445D & T, NL445D1 & T1, includes keys 8-9)	up to - 793937 Dubuque -036627 Torreon
	RE500002	4	Connecting Rod (Marked R500000, LP- MP445D - MP445T - NL445D1 & T1, includes keys 8-9)	from 793938 Dubuque -036627 Torreon
	RE50770	4	Connecting Rod (Marked R500000, replaced by RE500608, LP445T - MP445H, NL445T2, includes keys 8-9)	-
	RE500608	4	Connecting Rod (Marked R500335, LP445T - MP445H, NL445T2, includes keys 8-9)	-
8	R123960	4	Bushing (LP-MP445D, MP445T, NL445D1 & T1)	-
	R114082	4	Bushing (LP445T, MP445H, & NL445T2)	-
9	R114083	8	Screw 65 mm long	up to - 793937 Dubuque
	R501124	8	Screw 62 mm long	from 793938 -
10	RE65908	4	Bearing (Std.)	-
	RE65909	4	Bearing (.010" undersize)	-

**Note:** Cylinder Liner Shims, .002" #CD15466 and .004" #R65833, Refer to Workshop Manual CTM104 for application instructions.

## Timing Cover Plate

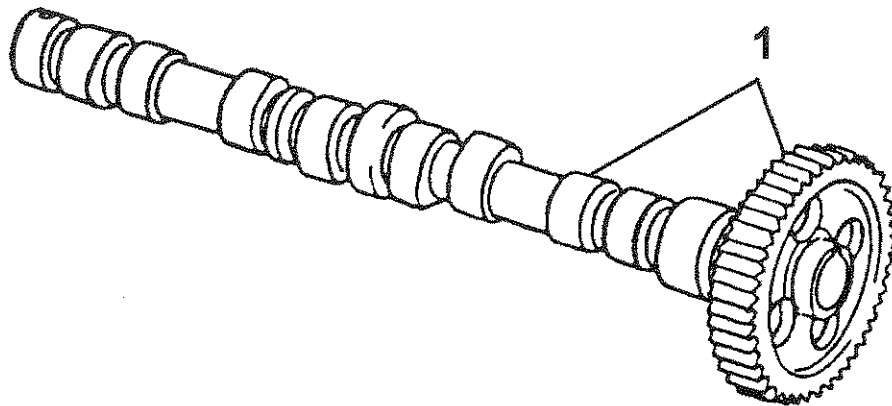


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TP50813ab

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	R121671		Plate*	up to - 703905
	R134526	1	Plate	from - 703906 on
2	R136475	6	Screw	up to - 703905
	R136475	4	Screw	up to - 703905
3	R135757	1	Cover	-
4	T20758	1	O-ring	-
5	19M7790	2	Capscrew, M12 x 1.75 x 35 mm	-
<p>*No longer available: Replaced by Plate 134526, Cover R501297, Gasket R196515, Stud 134518 (2 ea.), and Nut 14-80811 (2 ea.)</p>				

**Camshaft**

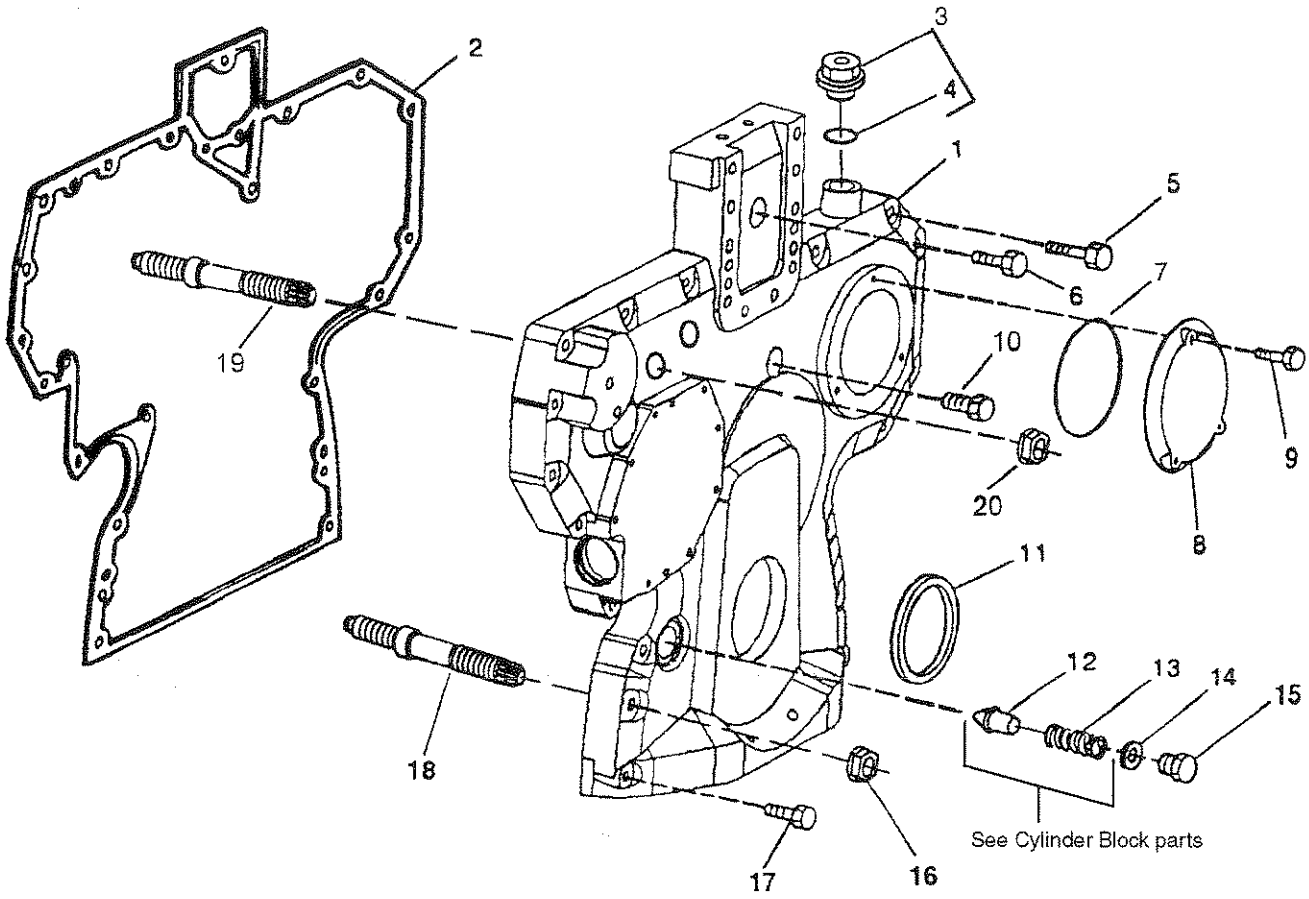


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TP60711

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE56375	1	Camshaft and Gear (marked R135439)	-

# Timing Cover



## Timing Cover

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	R121625	1	Timing Cover (with access to #12-13 Pressure Regulating Valve and Spring) *	up to - 703904
	R501297	1	Timing Cover (with access to #12-13 Pressure Regulating Valve and Spring) ***	from 703905 -892612
	R504724	1	Timing Cover	from 892613 -
2	R136515	1	Gasket	-
3	RE501938	1	Plug (includes key #4)	-
4	51M7044	1	O-ring	-
5	19M8317	10	Capscrew, M8 x 1.25 x 40 mm	-
	RE67239	1	Capscrew, M8 x 1.25 x 45 mm (with sealant)	-
6	19M8291	1	Capscrew, M8 x 1.25 x 35 mm	-
	19M7801	1	Capscrew, M8 x 1.25 x 60 mm	-
7	R121424	1	O-ring	-
8	R121411	1	Cover	-
9	19M7775	3	Capscrew, M6 x 1.0 x 16 mm	-
10	R67239	2	Capscrew, M8 x 1.25 x 45 mm (with sealant)	-
11	RE59810	1	Seal	-
12		1	Pressure Regulating Valve ****	-
13		1	Spring ****	-
14	A4827R	1	Washer	-
15	T27657	**	Plug (use only with #12 Valve & #13 Spring)	-
16	14-80811	2	Flange Nut, M10 x 1.5	-
17	19M7979	2	Capscrew, M8 x 1.25 x 55 mm	-
18	R123584	4	Stud	-
19	R134518	2	Stud	from 703905 -
20	14-80811	2	Flange Nut, M10 x 1.5	from 703905 -

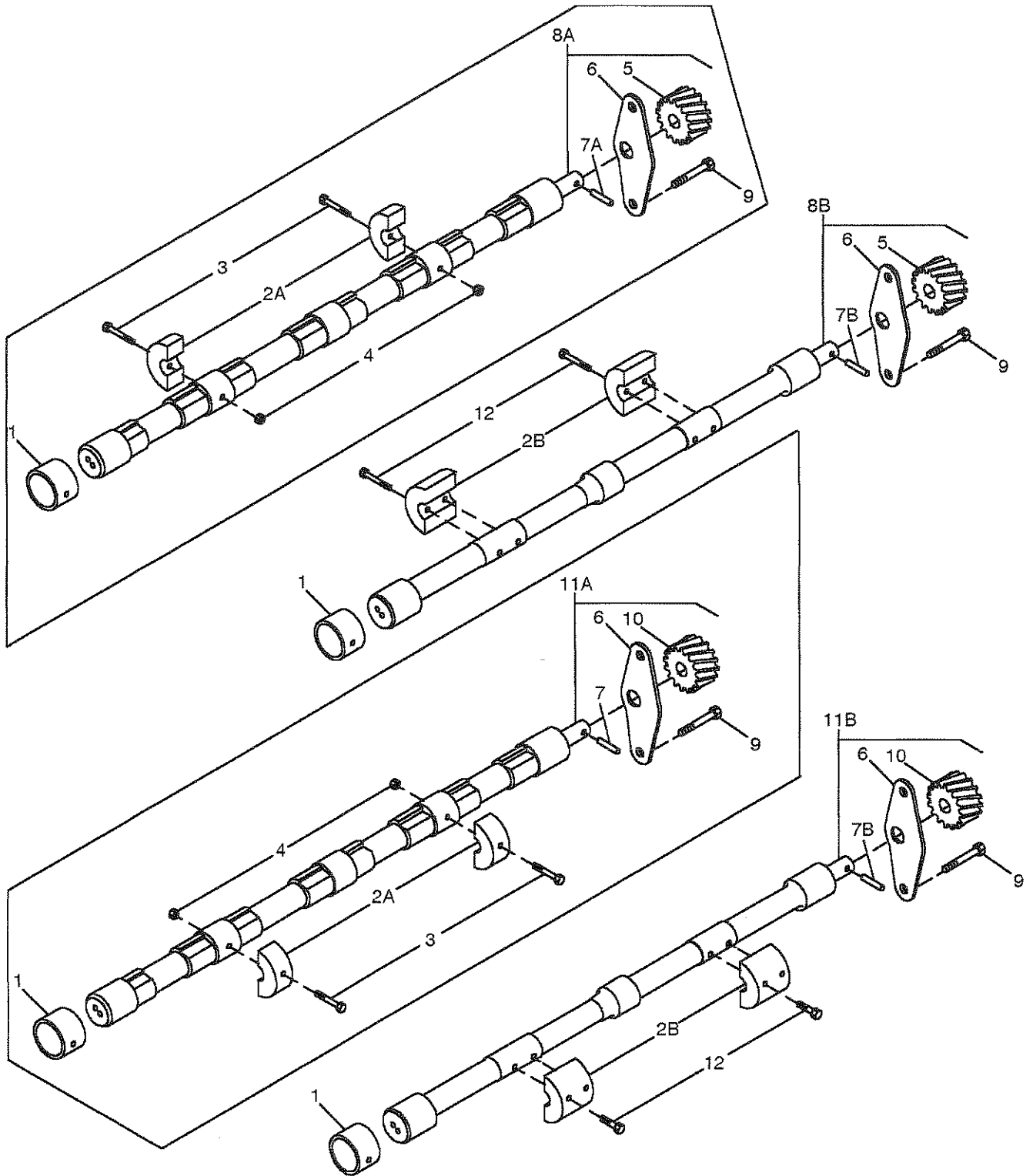
\* No longer available. Replaced by Cover R504724, Gasket R136515, Stud R134518 (2 ea), and Hex Nut 14-80811 (2 ea), and Regulating Valve RE505501.

\*\*As required.

\*\*\*Replaced by Cover R504724 and Regulating Valve RE505501.

\*\*\*\*Replaced by RE505501. Also use Plug R91692 if used with Timing Cover having valve retaining plug.

# Engine Balancer Shaft



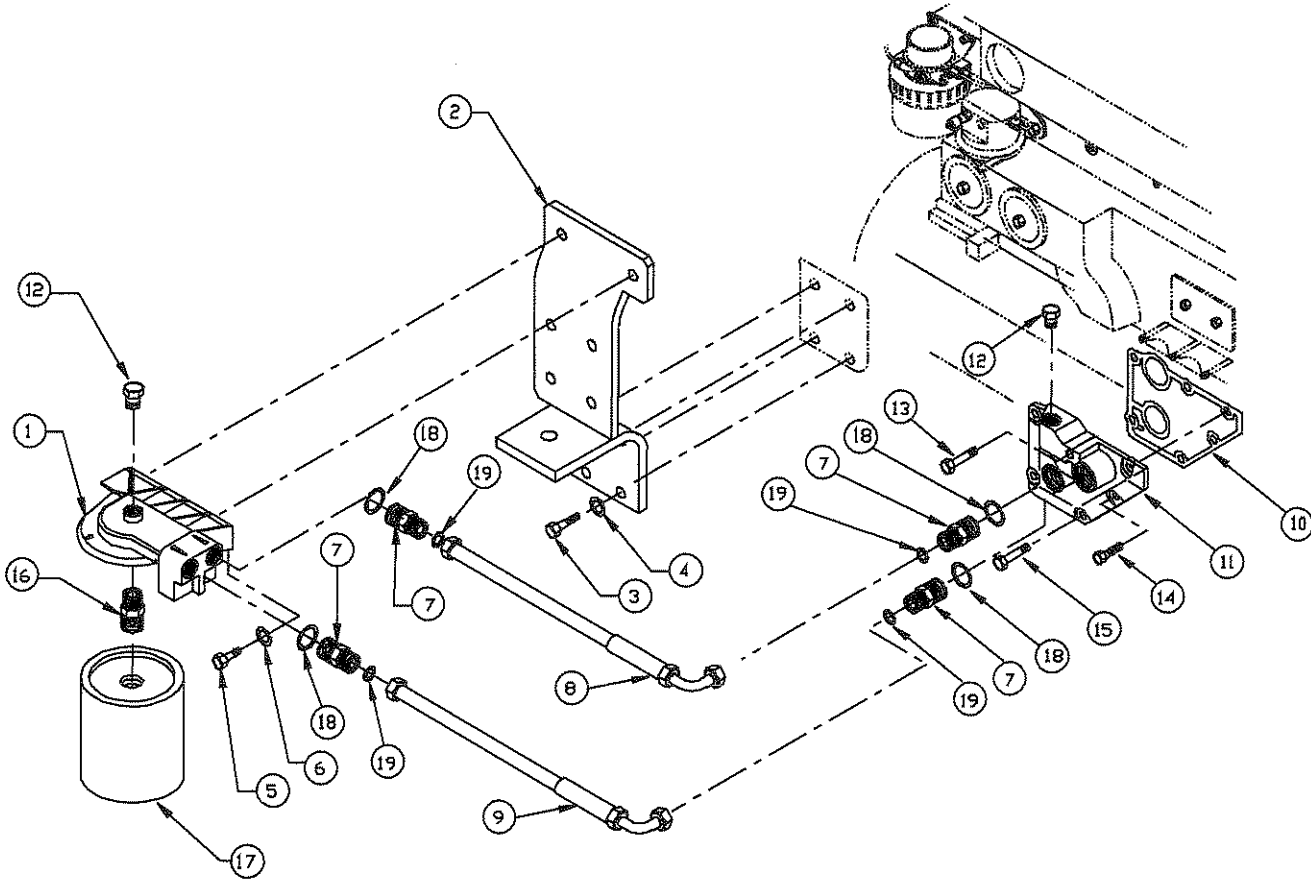
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TP59252

## Engine Balancer Shaft

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R115299	6	Bushing	-
2A	R134358	4	Weight (LP445T -MP445H -NL445T2)	700677 - 776566
	R134359	4	Weight (LP445D -MP445D & T -NL445D1 & T1)	700677 - 776566
2B	R500650	4	Weight (LP445T -MP445H -NL445T2)	from 776567 -
	R500265	4	Weight (LP445D -MP445D & T -NL445D1 & T1)	from 776567 -
3	T28745	4	Bolt	700877 - 776566
4	T15634	4	Nut	700677 - 776566
5	R120639	1	Gear, (Left hand shaft, 15 teeth)	-
6	R116078	2	Plate	-
7A	26M4224	2	Key	up to - 776566
7B	34M7069	1	Dowel Pin	from 776567 -
8A	RE52196	1	Balancer Shaft, (Left hand, marked R115301)	up to - 700876
	RE69365	1	Balancer Shaft, (Left hand, marked R134357)	700876 - 776566
8B	RE500449	1	Balancer Shaft, (Left hand, marked R500266)	from 776567 -
9	19M8998	4	Screw, M6 x 12	-
10	R120637	1	Gear (Right hand shaft, 15 teeth)	-
11A	RE52197	1	Balancer Shaft (Right hand, marked R115301)	up to - 700876
	RE69364	1	Balancer Shaft (Right hand, marked R134357)	700877 - 776566
11B	RE500448	1	Balancer Shaft (Right hand, marked R500668)	from 776567 -
12	19M8882	8	Screw, M8 x 40	from 776567 -

# Oil Filter Assembly LP445



A-8801/ B-6229

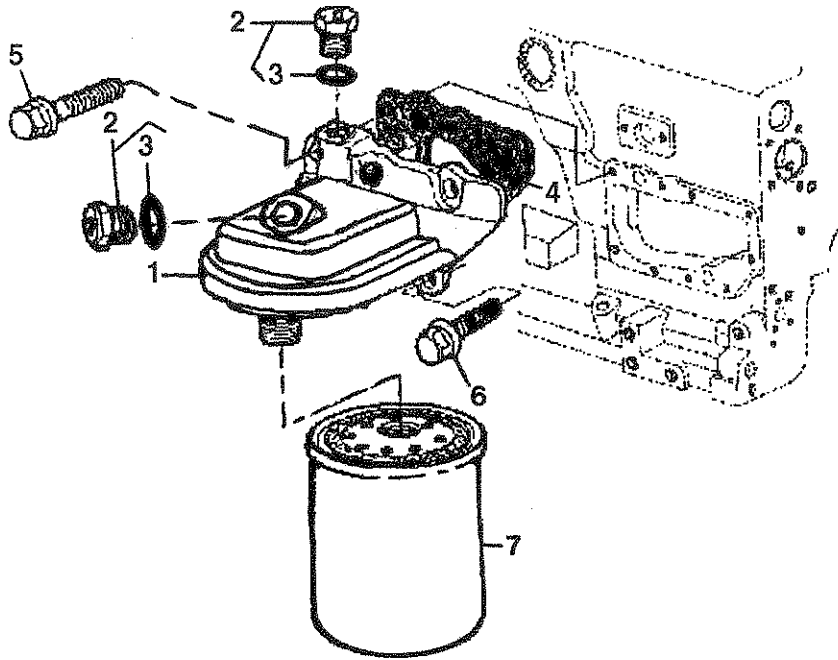


## Oil Filter Assembly LP445

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE60153	1	Oil Filter Head Assembly	-
2	23-89401	1	Bracket, Rear Engine & Oil Filter	-
3	12-00954	4	Capscrew, Hex Head, M12 x 1.75 x 35 mm	-
4	15-00912	4	Lock Washer, Helical M12	-
5	12-00831	2	Cap Screw, Hex Head, M10 x 1.5 x 25 mm	-
6	15-00804	2	Wave Washer, M10	-
7	21-09504	4	Male Connector, Steel, 1-14 O-Ring Face Seal (Includes keys 18-19)	-
8	18-09401	1	Hose Assembly, 1/2" I.D. x 16"	-
9	18-09601	1	Hose Assembly, 1/2" I.D. x 18"	-
10	R123525	1	Gasket	-
11	RE71062	1	Adapter	-
12	RE52242	**	Plug	-
13	19M7913	1	Capscrew, M8 x 90	-
14	RE67238	1	Capscrew, M8 x 20 (with pre-applied sealant)	-
15	19M7802	4	Capscrew, M8 x 65	-
16	••	1	Adapter (R123591 no longer available, replaced by RE60153)	-
17	24-01002	1	Oil Filter	-
18	16-09501	**	O-ring	-
19	16-09502	**	O-ring	-

\*\* As required

**Oil Filter and Adapter**

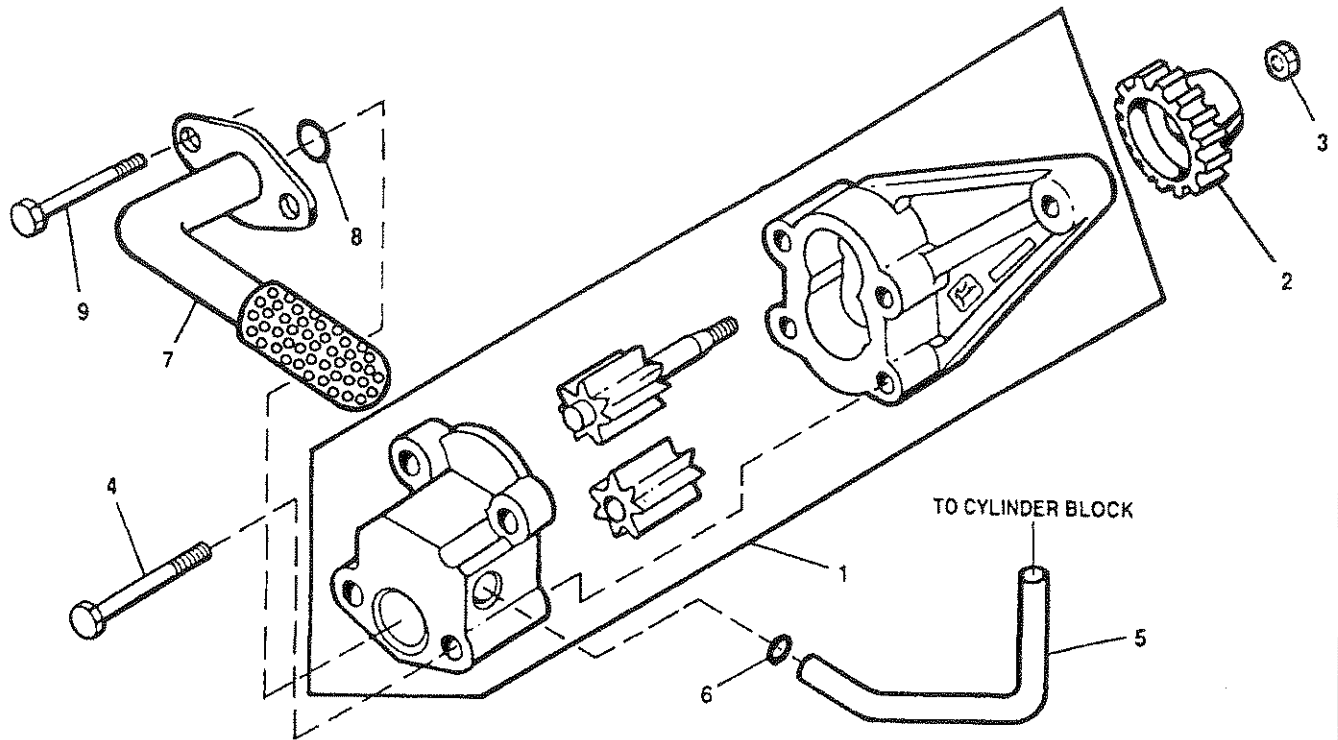


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TP61873

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

**Oil Pump**



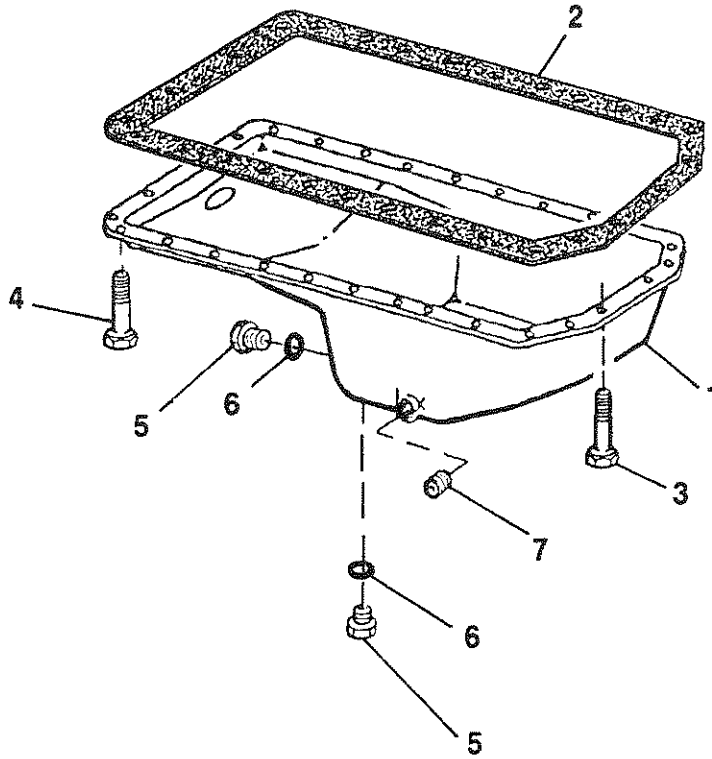
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TP49336

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE504914	1	Oil Pump (marked R502687, formerly RE502269, RE70153, all marked R123179)	-
2	R120638	1	Gear (30 teeth)	-
3	14M7066	1	Nut, M12	-
4	19M8987	2	Capscrew, M8 x 65	-
5	R121376	1	Tube	-
6	R97185	1	O-ring	-
8	R61871	1	O-ring	-
7	RE70073	1	Oil Pump Intake (NL445D1 with stamped steel oil pan only)	-
	RE57619	1	Oil Pump Intake	-
8	R61871	1	O-ring	-
9	19M8986	2	Capscrew, M8 x 100	-

**Oil Pan, Stamped Steel**

MP445D & NL445D1



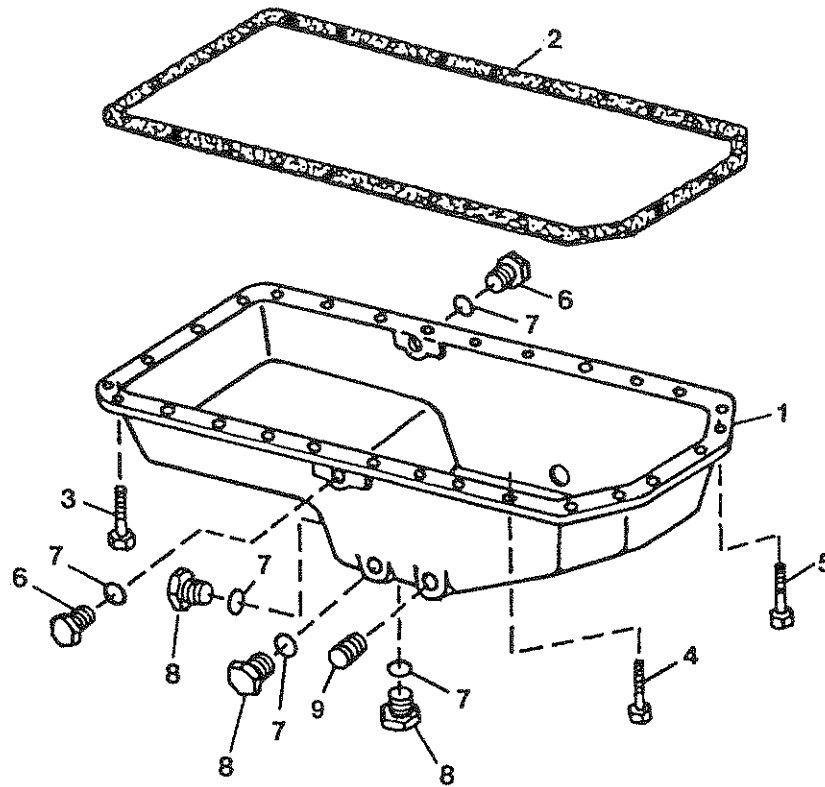
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TP55263

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE59430	1	Oil Pan (marked R56281, includes keys 5-6)	-
2	R123352	1	Gasket	-
3	19M8062	6	Capscrew, M8 x 20	-
4	19M8163	22	Capscrew, M8 x 16	-
5	RE46685	2	Plug	-
6	16-09503	2	O-ring	-
7	21-11004	1	Plug, 3/4" NPT	-

**Oil Pan, Cast Aluminum**

LP445D & T, MP445D-T-H, NL445T1- T2

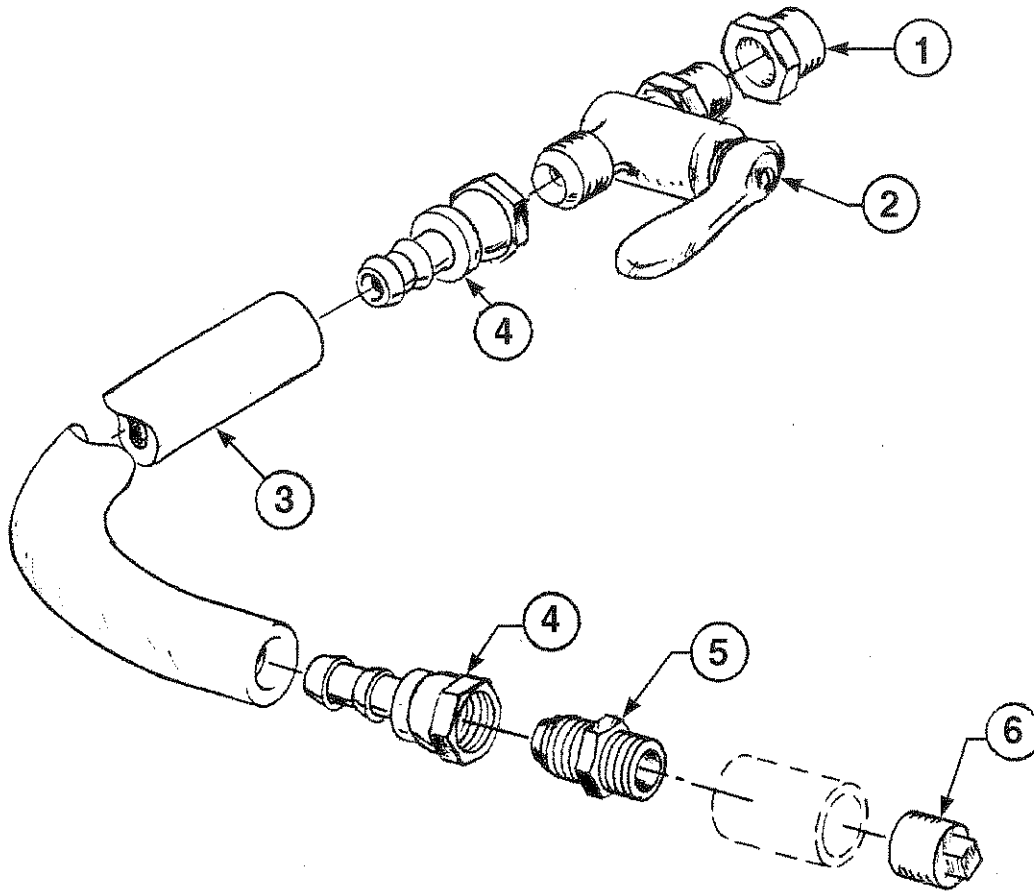


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TP50810

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R121621	1	Oil Pan	-
2	R123353	1	Gasket	-
3	19M7799	4	Capscrew, M8 x 45	-
4	19M7867	18	Capscrew, M8 x 25	-
5	19M7868	6	Capscrew, M8 x 30	-
6	RE46687	2	Plug	-
7	16-09503	5	O-ring	-
8	RE46685	3	Plug	-
9	15H690	1	Plug, 3/4 NPT	-

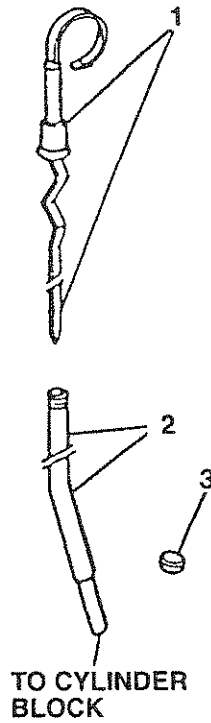
**Oil Drain Assembly**



A-8361/ B-1907

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	21-70014	1	Female Adapter, Steel, 3/8 NPT x M18 x 1.5	-
2	36-71002	1	Shut Off Valve, 3/8 NPT x 1/2-45T	-
3	41-01032	16	Hose, 1/2" ID Push-on	-
4	21-71042	2	Female Swivel Brass, 1/2 Hose Barb x 1.2-45T	-
5	21-71040	1	Male Connector Brass, 1/2 NPT x 1/2-45T	-
6	21-10005	1	Plug, Hex Head, Steel, 1/2 NPT	-

**Dipstick & Tube (Left or Right Side)**



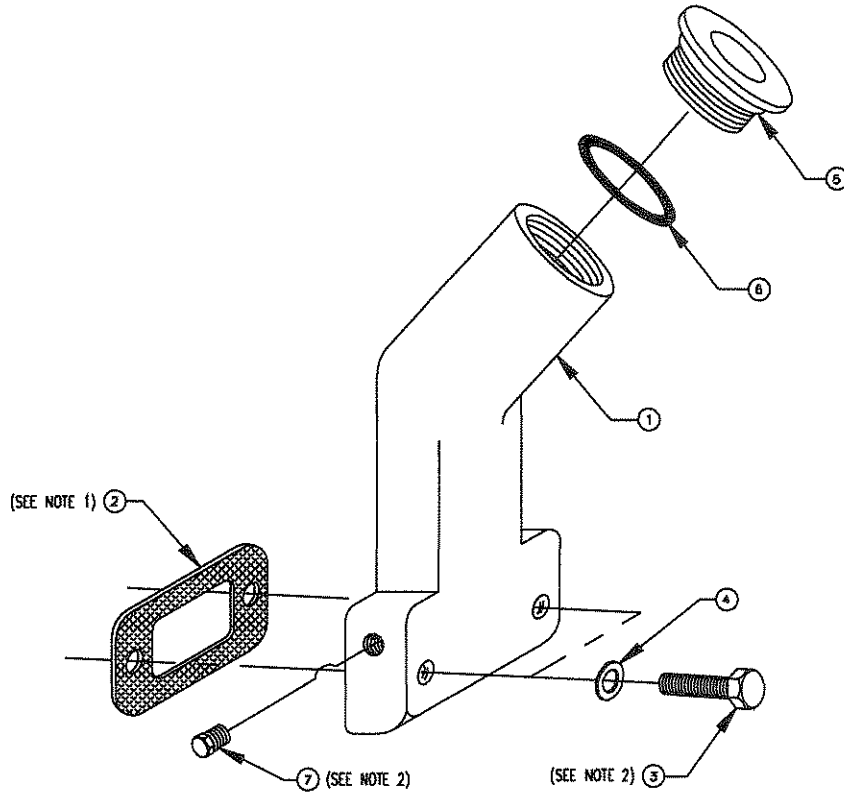
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TP50823

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

## Oil Fill Assembly

Right Side or Left Side (Without Governor Actuator)



**ASSEMBLY NOTES**

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

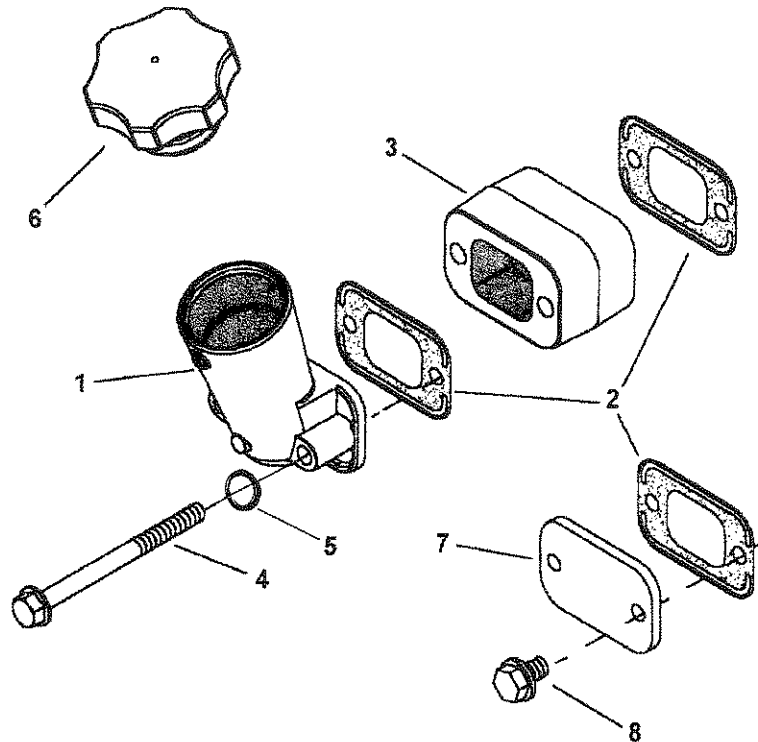
A-8347/ B-5846

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



**Oil Filler Assembly, Left Side (with Governor Actuator)**

and Oil Fill Block-Off, Left or Right Side

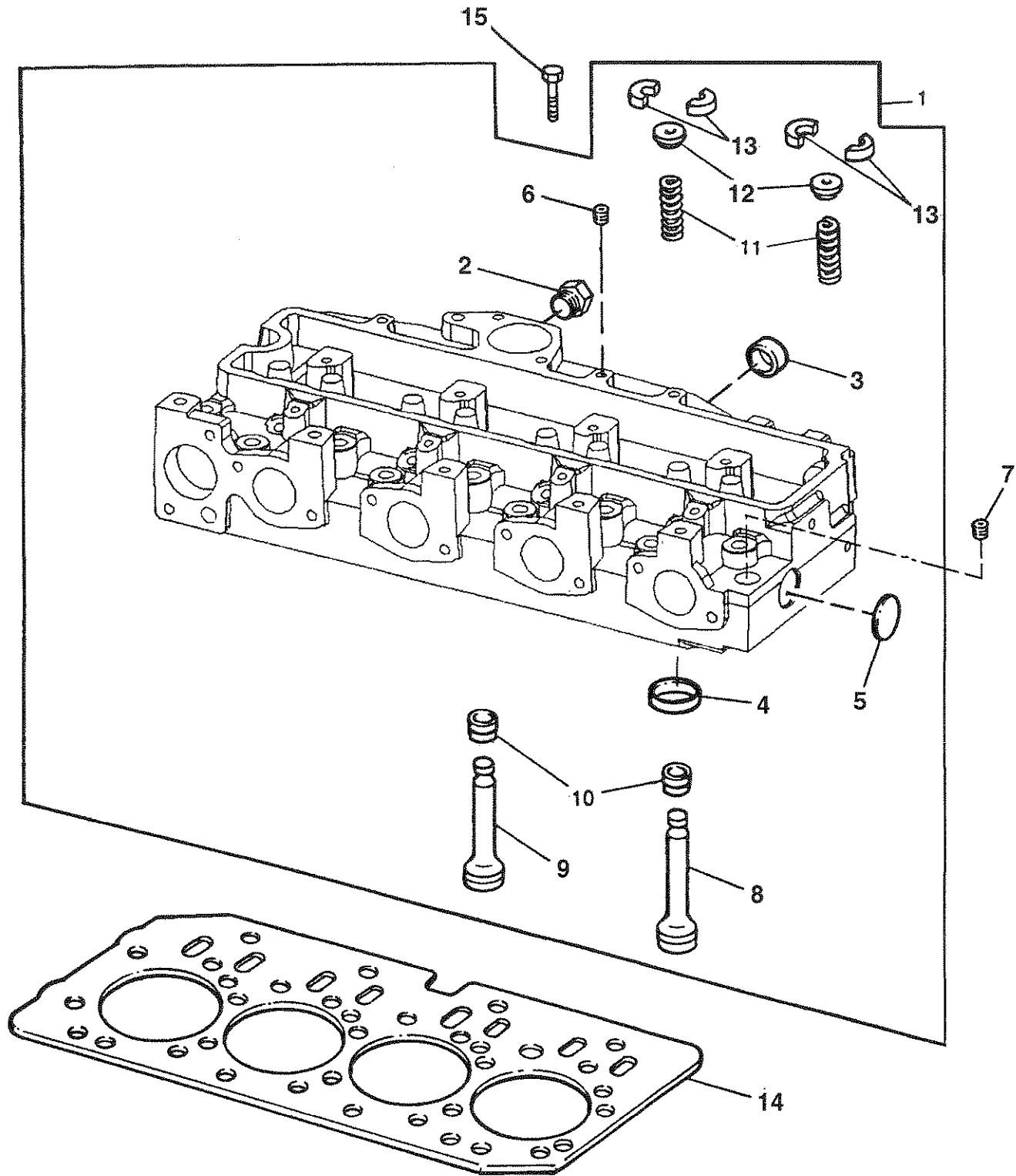


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RGP5993

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

# Cylinder Head

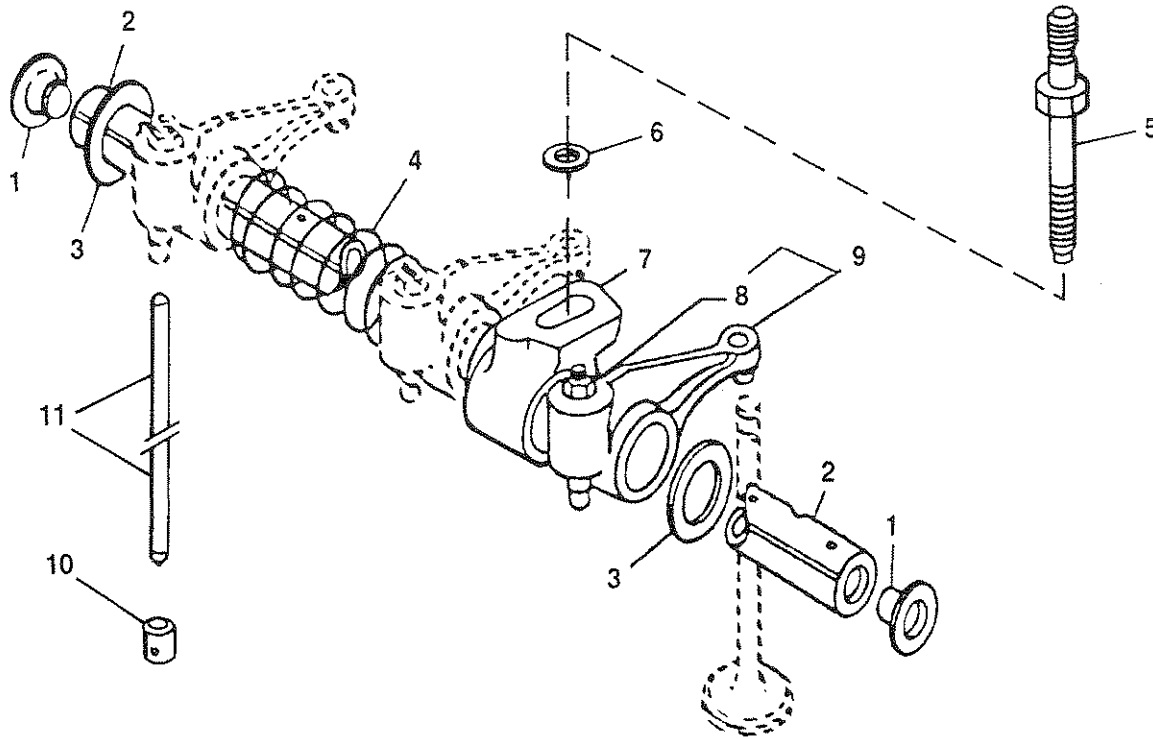


## Cylinder Head

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE57234	1	Cylinder Head (includes keys 2-6 & 8-13)	-
2	21-09507	**	Plug, Socket Head, Steel 5/8 O-ring Port	-
3	R43409	2	Cap	-
4	R98063	4	Valve Seat Insert, Standard Size Intake Valve	-
	R98335	4	Valve Seat Insert, Oversize Intake Valve	-
	R85687	4	Valve Seat Insert, Standard Size Exhaust Valve	-
	R93910	4	Valve Seat Insert, Oversize Exhaust Valve	-
5	CD16284	1	Cap	-
6	R104592	1	Pipe Plug	-
7	21-13101	**	Plug, 1/2 NPT	-
8	R90692	4	Exhaust Valve, Standard	-
	R97492	**	Exhaust Valve, .015" Oversize	-
	R97493	**	Exhaust Valve, .030" Oversize	-
9	R98062	4	Intake Valve, Standard	-
	R97490	**	Intake Valve, .015" Oversize	-
	R97491	**	Intake Valve, .030" Oversize	-
10	RE31617	8	Seal	-
11	R26125	8	Spring	-
12	RE60005	8	Rotater	-
13	R91889	16	Retainer	-
14	R116515	1	Head Gasket	-
15	R85363	18	Capscrew (SAE Standard Thread)	-

\*\*As required

## Rocker Shaft Assembly & Push Rods

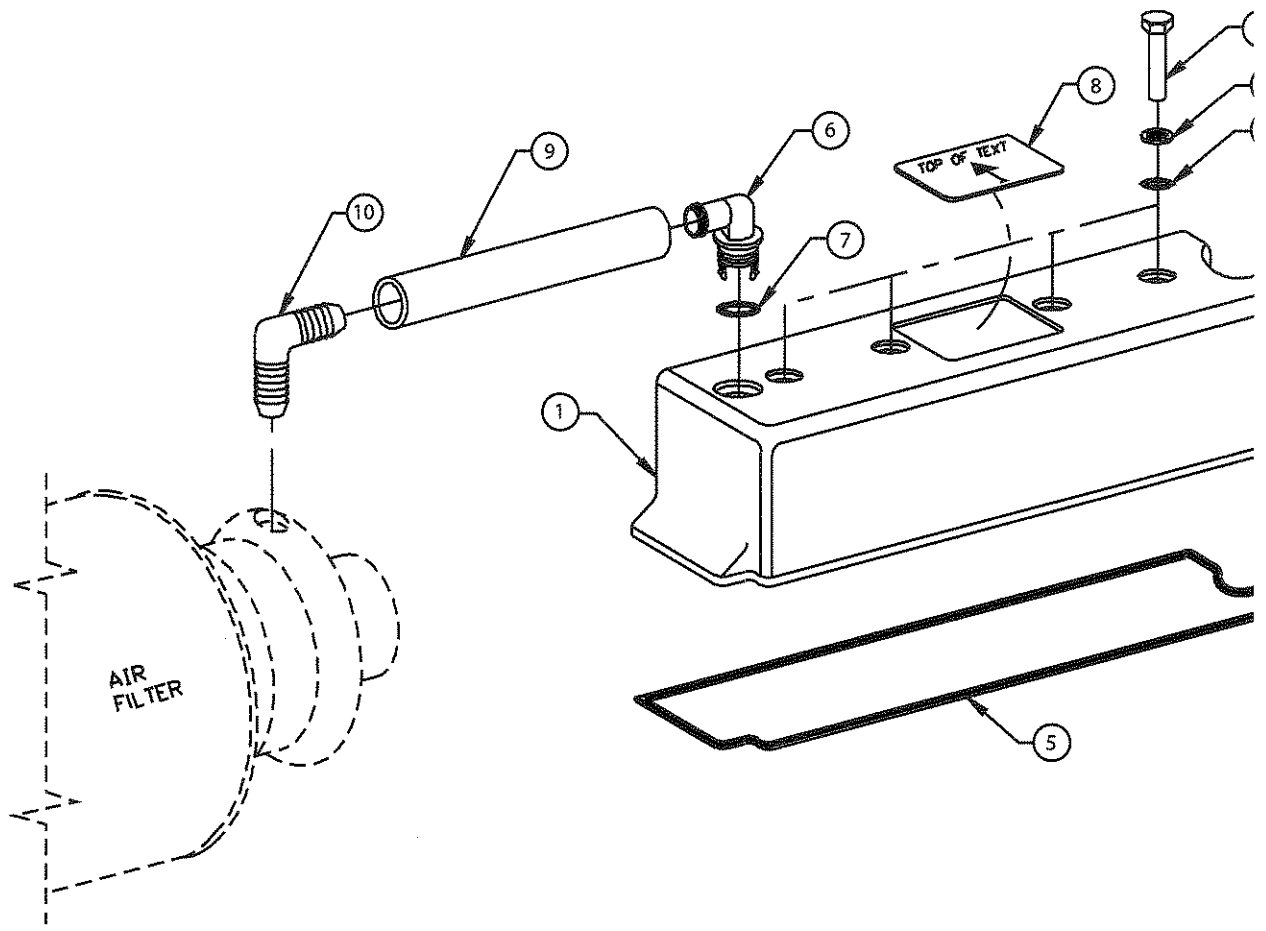


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TP49263

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R54565	2	Plug	-
2	R123513	1	Rocker Arm Shaft	-
3	T20316	2	Washer	-
4	T20314	3	Spring	-
5	R123271	4	Stud	-
6	R42729	4	Washer	-
7	R123161	4	Support	-
8	14M7148	1	Nut, M10	-
9	RE68695	8	Rocker Arm	-
10	R123565	8	Cam Follower	-
11	R107731	8	Push Rod	-

**Rocker Arm Cover LP-MP445**

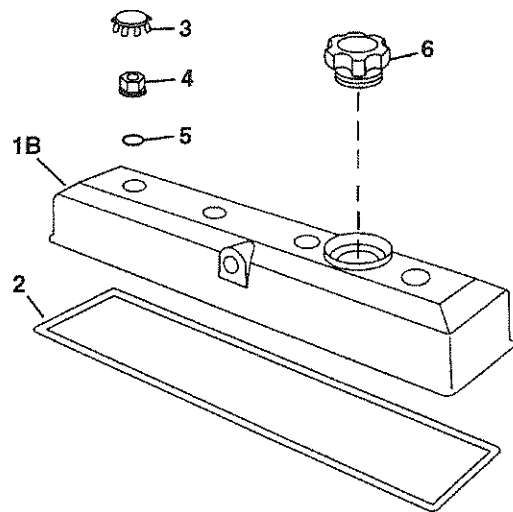
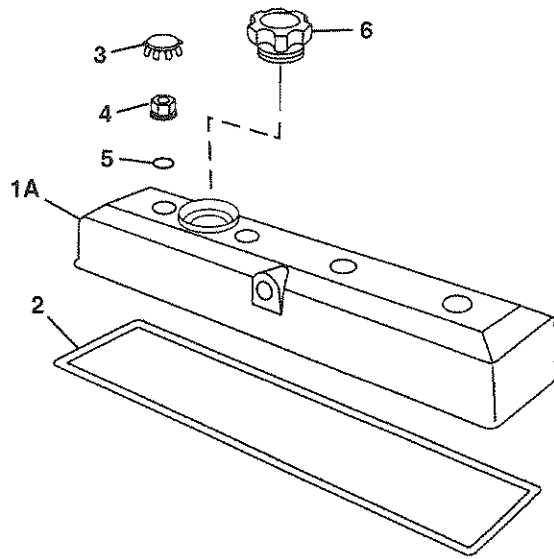


A-8281/ C-4091

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-09402	1	Rocker Arm Cover	-
2	14-71002	4	Hex Nut, M8 x 1.25 x 53.5 mm Special	-
3	15-09007	4	Flat Washer, M12 S/S	-
4	16-15005	4	O-ring	-
5	R123542	1	Gasket, Rocker Arm Cover Mounting	-
6	R120467	1	Elbow, Vent System Connection	-
7	16-01000	1	O-ring	-
8	00-09504	1	Label "Lugger"	-
	00-09507	1	Label "Northern Lights"	-
9	41-00004	**	Hose, 3/4" I.D. (sold per inch)	-
10	21-00025	**	Vent Elbow	-

\*\*As required

**Rocker Arm Cover NL445D1 &NL445T1-T2**

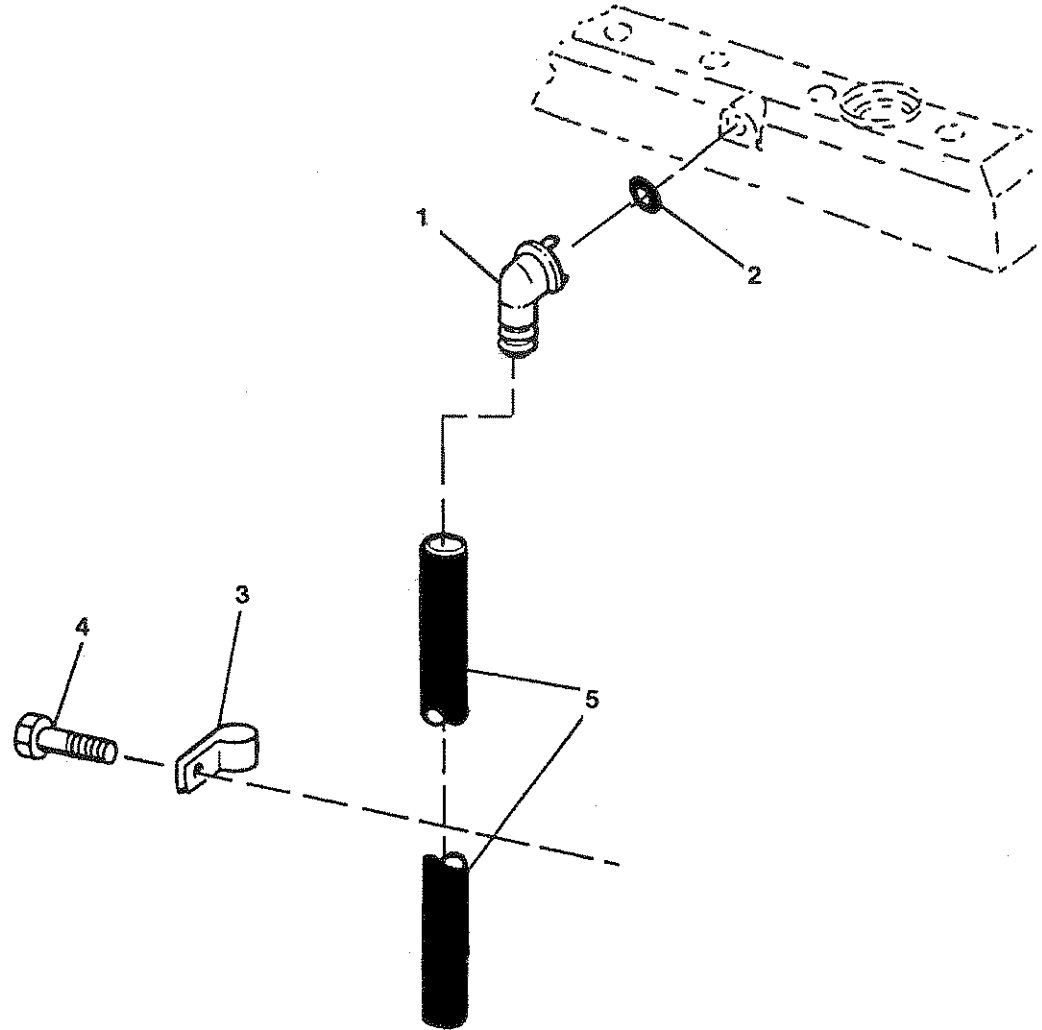


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TP61819

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1A	RE70403	1	Rocker Arm Cover, Rear Oil Fill (NL445D1)	-
1B	RE70401	1	Rocker Arm Cover, Front Oil Fill (NL445T1 & T2)	-
2	R123542	1	Gasket	-
3	H23125	4	Plug	-
4	R123574	4	Nut	-
5	R123575	4	O-ring	-
6	RE500005	1	Filler Cap	-

**Ventilating System**

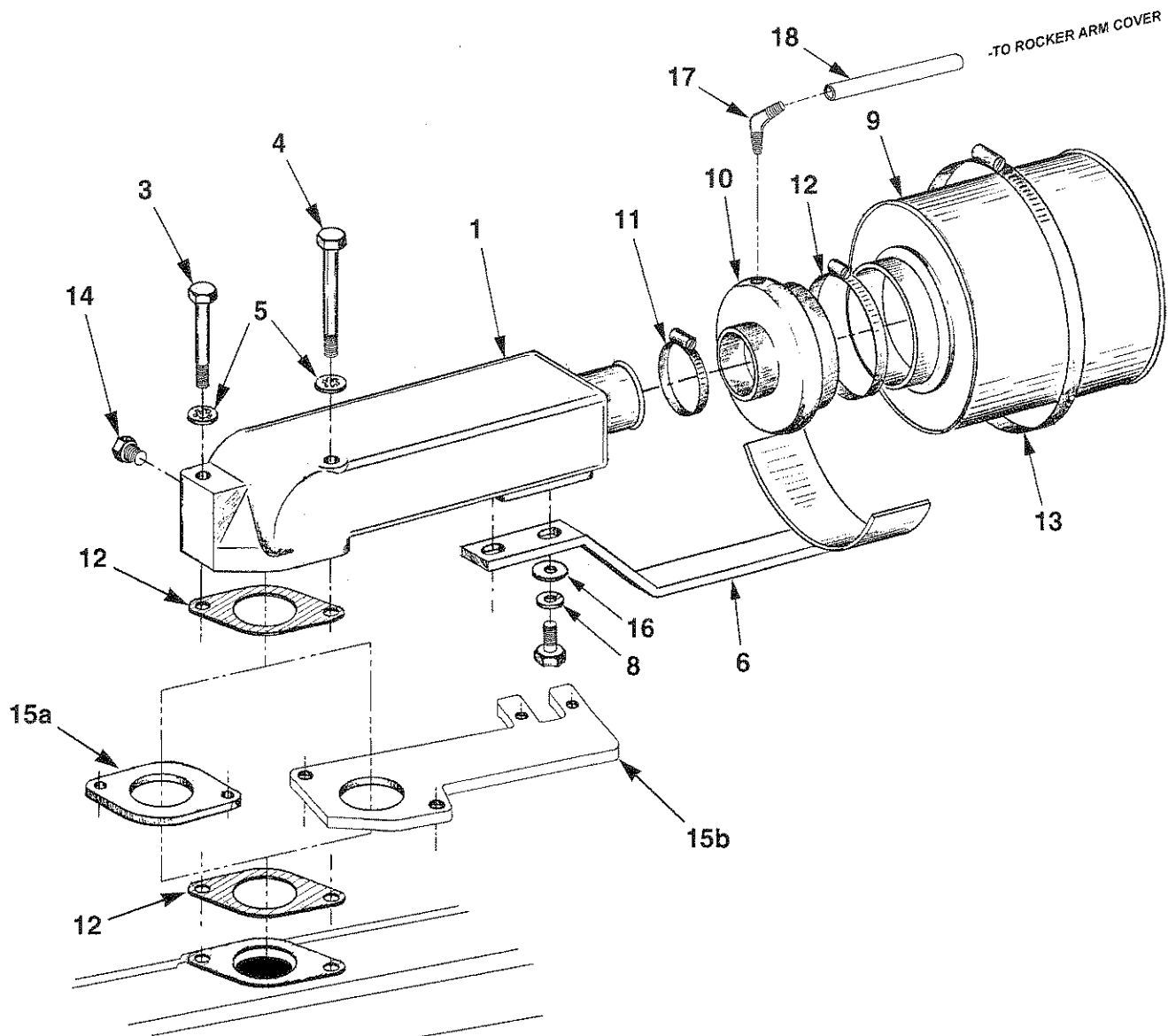


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TP61896

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

Intake Manifold & Air Filter LP-MP445D



A-3821/ B-1731B

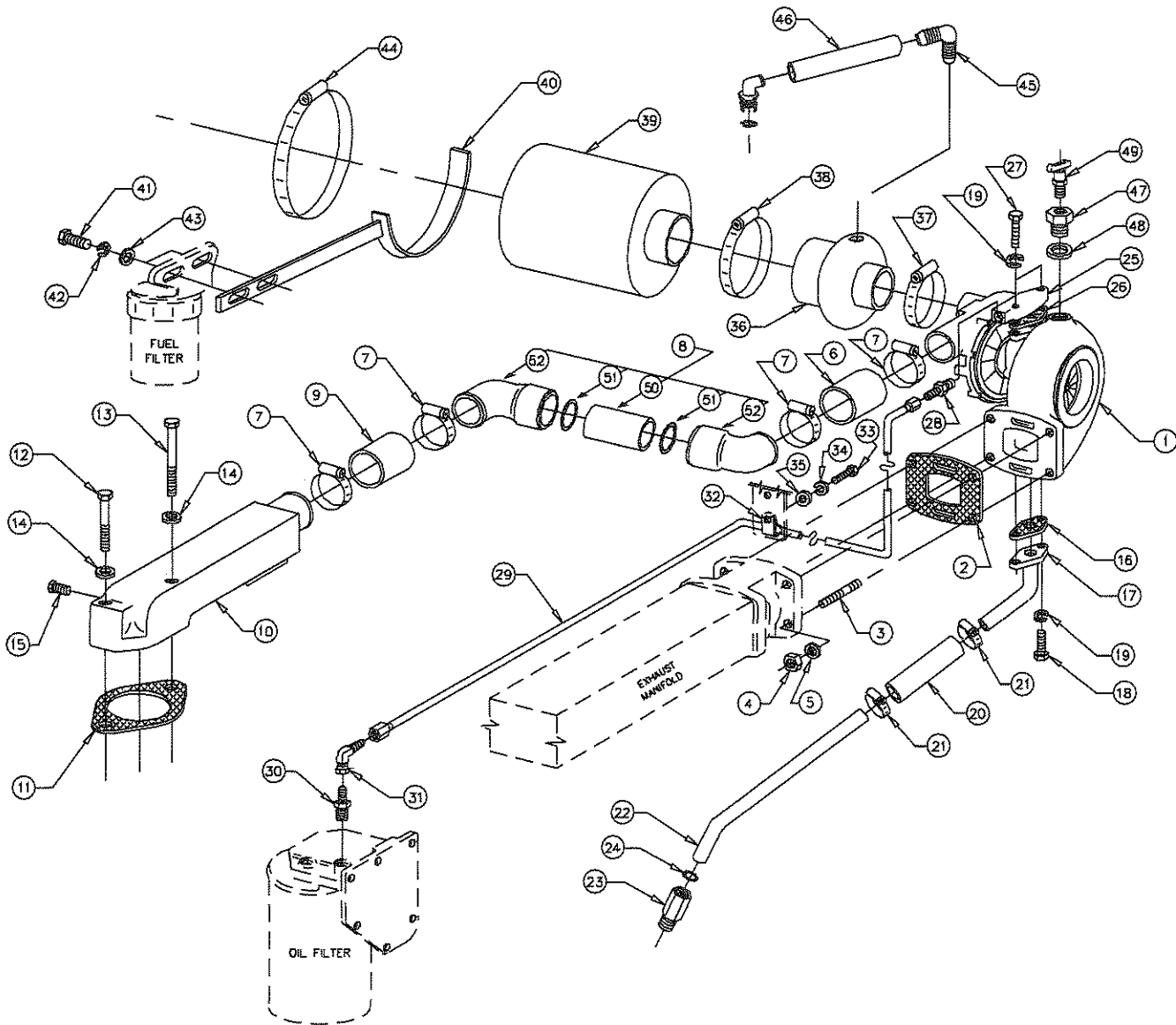


## Intake Manifold &amp; Air Filter LP-MP445D

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-21400	1	Intake Manifold	-
2	11-21011	2	Gasket	-
3	12-00819	1	Capscrew, Hex Head, M10 x 1.5 x 75 mm	-
4	12-00088	1	Capscrew, Hex Head, M10 x 1.5 x 95 mm	-
5	15-00804	2	Wave Washer, M10	-
6	23-21610	1	Bracket	-
7	12-00311	2	Capscrew, Hex Head 3/8-16	-
8	15-00302	2	Lock Washer 3/8"	-
9	24-21003	1	Air Filter	-
10	18-21004	1	Hump Hose	-
11	19-00036	1	Hose Clamp #36	-
12	19-00072	1	Hose Clamp #72	-
13	19-00128	1	Hose Clamp #128	-
14	21-00012	1	Hex Plug 1/8 NPT	-
15a	28-21001	1	Spacer (MP445)	-
15b	23-49507	1	Bracket (LP445)	-
16	15-00301	2	Fiat Washer 3/8	-
17	21-00025	1	Male Elbow 90° PVC 3/4" Hose Barb	-
18	41-00004	4"	Hose 3/4" I.D.	-

# Intake, Turbocharger, and Air Filter Assembly

LP445T & MP445T-H



A-8345-6/ C-4137

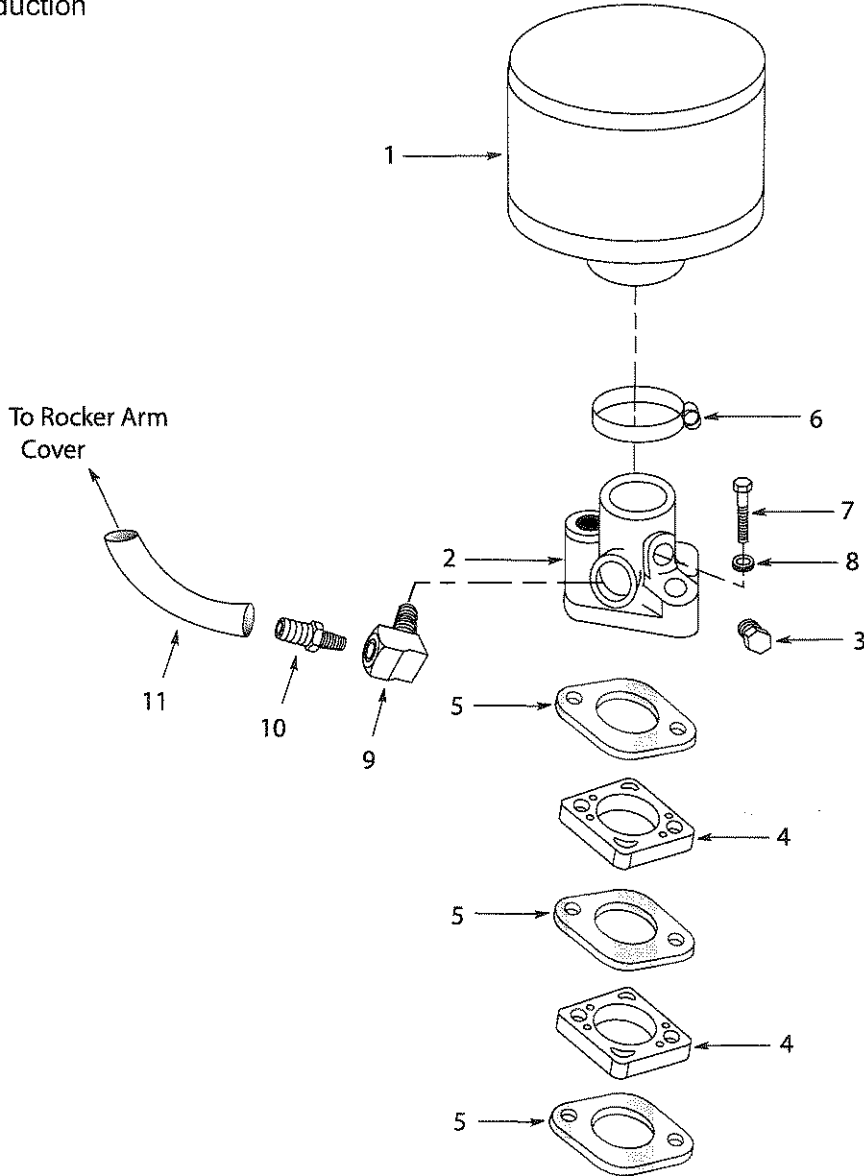
## Intake, Turbocharger, and Air Filter Assembly

LP445T &amp; MP445T-H

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	30-21400-1	1	Turbocharger - Generator Units (see Parts Detail)	-
	30-31426-1	1	Turbocharger - Propulsion Units (see Parts Detail)	-
2	11-31401	1	Gasket	-
3	13-00814	4	Stud, M10 x 1.5 x 30 mm (42 mm LOA)	-
4	14-00817	4	Hex Nut, M10 x 1.5 S/S	-
5	15-00804	4	Wave Washer, M10	-
6	18-21016	1	Hose, 2" I.D. x 1-3/4" 3 Ply Silicone	-
7	19-01028	4	Hose Clamp #28	-
8	27-21010	1	Intake Tube Assembly (Includes keys #50-52)	-
9	18-21014	1	Hose, 2" I.D. x 2-3/8"	-
10	10-21400	1	Intake Manifold	-
11	11-21011	**	Gasket (**As required)	-
12	12-00071	1	Capscrew, Hex Head, M10 x 1.5 x 70 mm (Generator Units)	-
	12-00819	1	Capscrew, Hex Head, M10 x 1.5 x 75 mm (Propulsion Units)	-
13	12-00051	1	Capscrew, Hex Head, M10 x 1.5 x 90 mm (Generator Units)	-
	12-00088	1	Capscrew, Hex Head, M10 x 1.5 x 95 mm (Propulsion Units)	-
14	15-00804	2	Wave Washer, M10	-
15	21-00012	1	Plug, Hex Head, Brass 1/8 NPT	-
16	11-31031	1	Gasket	-
17	27-31602	1	Pipe, Turbo Oil Return (Upper)	-
18	12-00711	2	Capscrew, Hex Head, M8 x 1.25 x 20 mm	-
19	15-00702	4	Lock Washer, Helical M8	-
20	18-11010	1	Hose, 3/4" I.D. x 4-1/4"	-
21	19-01012	2	Hose Clamp #12	-
22	27-31402	1	Pipe, Turbo Oil Return (Lower)	-
23	R41285	1	Adapter	-
24	16-01000	1	O-ring	-
25	R43928	1	Adapter	-
26	11-31012	1	Gasket	-
27	12-00714	2	Capscrew, Hex Head, M8 x 1.25 x 40 mm, all thread	-
28	21-52800	1	Male Connector, Steel, 3/8 NPT x 3/8-37T	-
29	27-09401	1	Tube Assembly, Turbocharger oil supply	-
30	21-09502	1	Male Connector, Steel, 3/8-37T x M16 x 1.5	-
31	21-52213	1	Elbow, 90°, Swivel, Steel, 3/8-37T	-
32	19-72252	1	Adelle Clamp, 3/8" I.D. x 3/8" Stud	-
33	12-00751	1	Capscrew, Hex Head, M8 x 1.25 x 16 mm	-
34	15-00702	1	Lock Washer, Helical, M8	-
35	15-00701	1	Flat Washer, M8	-
36	18-21004	1	Hump Hose	-
37	19-00036	1	Hose Clamp #36	-
38	19-00072	1	Hose Clamp #72	-
39	24-21000	1	Air Filter	-
40	23-21003	1	Bracket	-
41	12-00814	2	Capscrew, Hex Head, M10 x 1.5 x 35 mm	-
42	15-00802	2	Lock Washer, Helical M10	-
43	15-00805	2	Flat Washer, M10	-
44	19-00128	1	Hose Clamp #128	-
45	21-00025	1	Male Elbow, 90°, PVC 3/4 HB x 3/4 HB	-
46	41-00004	9"	Hose, 3/4" I.D. 1 Ply	-
47	21-00077	1	Female Adapter, Steel, 1/8 NPT x M22 x 1.5	-
48	15-09501	1	Sealing Washer, Copper M22	-
49	21-10001	1	Drain Cock, Brass, 1/8 NPT	-
50	27-21002	1	Intake Tube	-
51	16-21001	2	O-Ring	-
52	27-21001	2	Intake Elbow	-

**Intake and Filter, MP40C**

Early Production

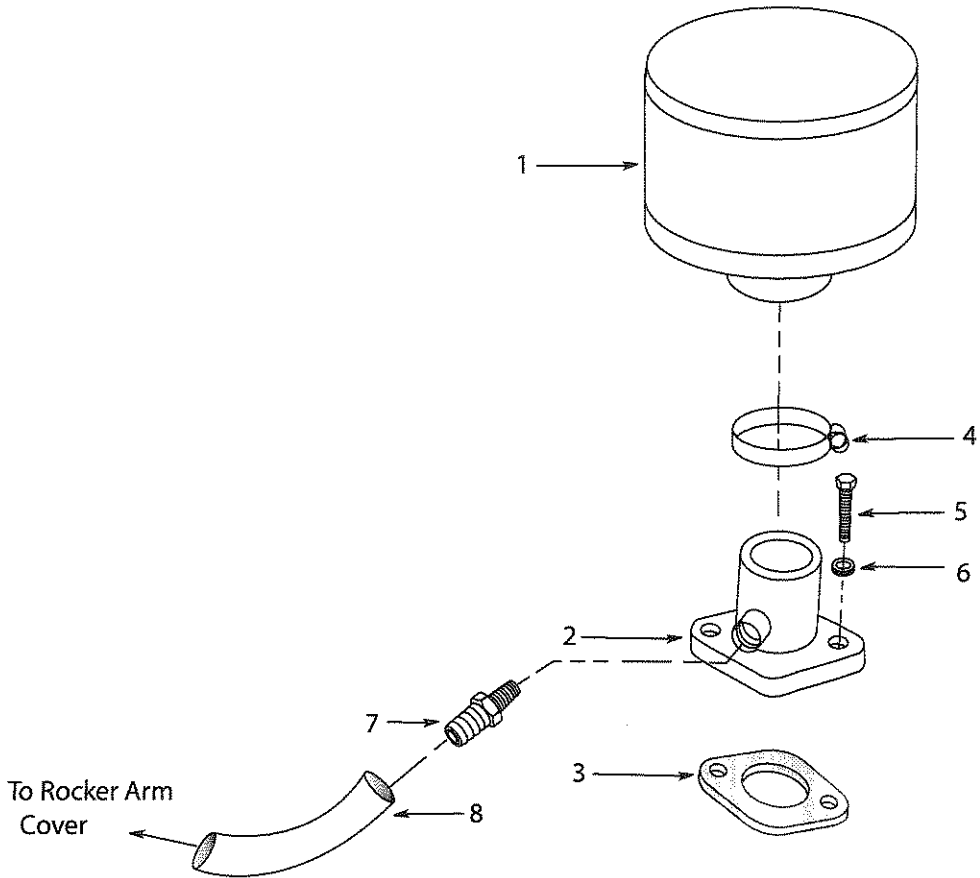


Intake Filter Early MP40

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-20001	1	Air Filter, MP40C	-
2	T31948	1	Air Inlet	-
3	21-00012	1	Plug, Hex Head, Brass, 1/8 NPT	-
4	R501472	2	Spacer, Air Inlet	-
5	11-21011	3	Gasket, Intake Port	-
6	19-00044	1	Hose Clamp #44	-
7	12-34808	2	Capscrew, Socket Head, M10 x 1.5 x 80 mm	-
8	15-00805	2	Flat Washer, M10	-
9	21-51097	1	Street Elbow 90 Degrees, Brass, 3/8 NPT	-
10	21-18301	1	Male Connector, Brass, 3/8 NPT x 3/4 HB	-
11	41-00004	14"	Hose, 3/4" I.D.	-

**Intake and Filter, MP40C**

Late Production

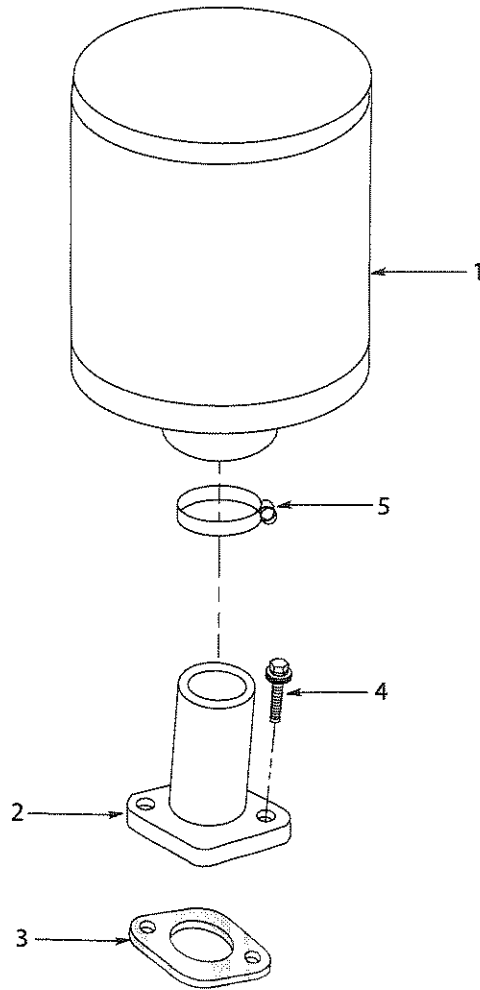


Intake Filter Late MP40

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-20001	1	Air Filter, MP40C	-
2	10-29501	1	Air Inlet	-
3	11-21011	1	Gasket	-
4	19-00044	1	Hose Clamp #44	-
5	12-00831	2	Capscrew, Hex Head, M10 x 1.5 x 25 mm	-
6	15-00804	2	Wave Washer, M10	-
7	21-00129	1	Male Connector, Brass 1/2 NPT x 3/4 HB	-
8	41-00004	13"	Hose, 3/4" I.D.	-

**Intake and Filter, NL445D**

Early Production

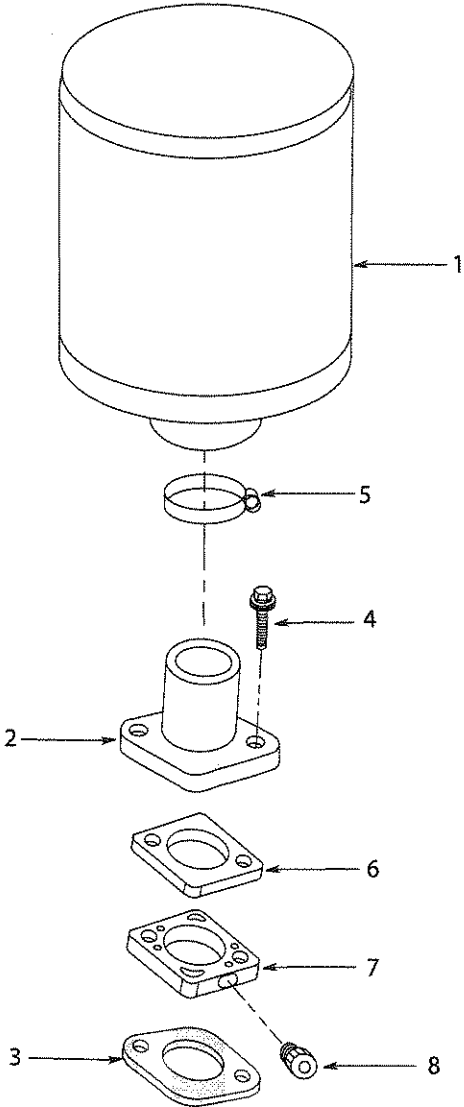


NL445D Intake Filter, Early

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-21406	1	Air Filter	-
2	R123569	1	Air Inlet	-
3	11-21011	1	Gasket	-
4	R500934	2	Capscrew, Flanged Head, M10 x 1.5 x 35	-
5	19-00044	1	Hose Clamp #44	-

**Intake and Filter, NL445D**

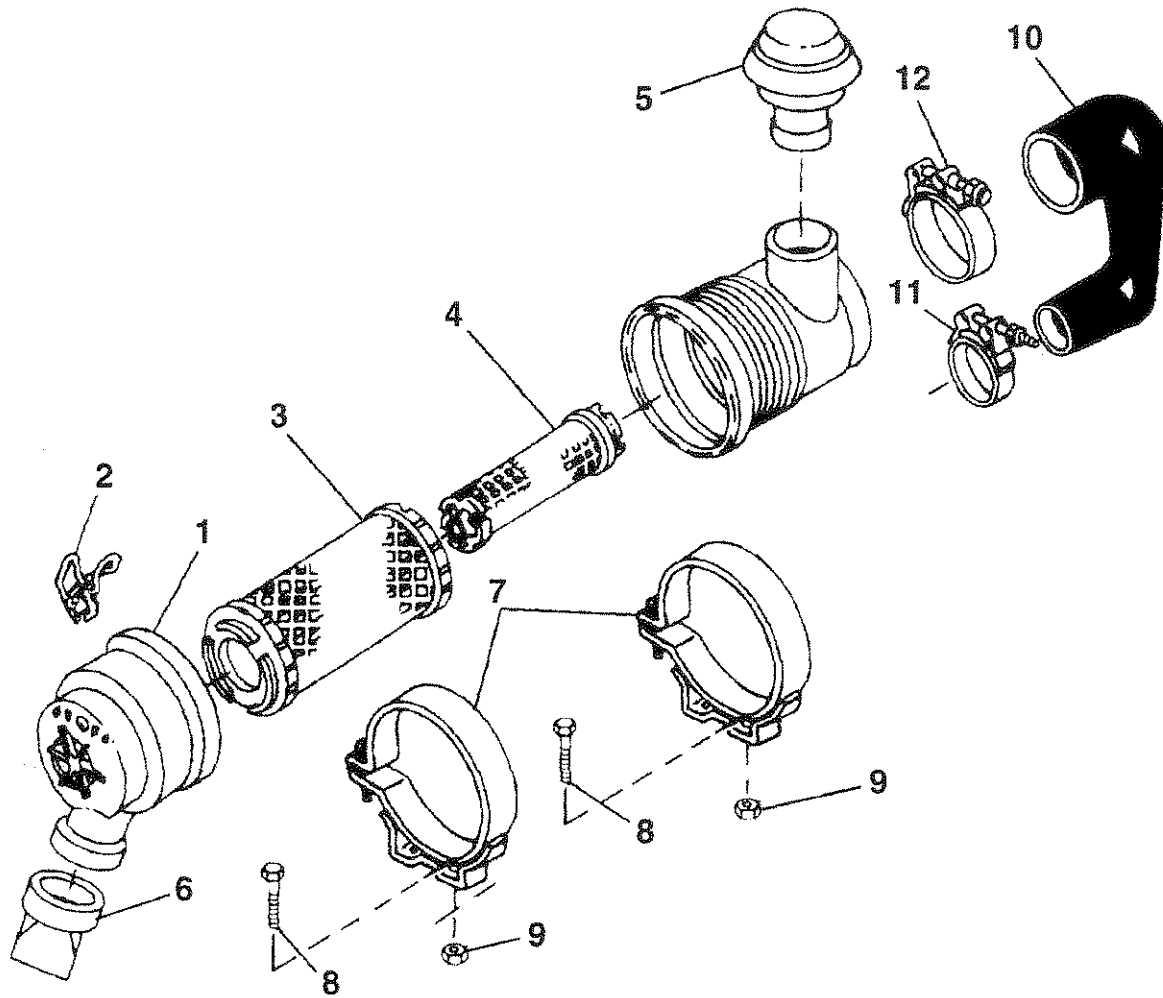
Late Production



NL445D Intake Filter, Late

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	24-21406	1	Air Filter	-
2	R504620	1	Air Inlet	-
3	11-21011	1	Gasket	-
4	19M8292	2	Capscrew, Hex Head Flanged, M10 x 1.5 x 25	-
5	19-00044	1	Hose Clamp #44	-
6	R133893	1	Gasket	-
7	R501472	1	Spacer, Air Inlet	-
8	RE502903	1	Plug	-

**Air Filter Assembly NL445T1 & NL445T2**



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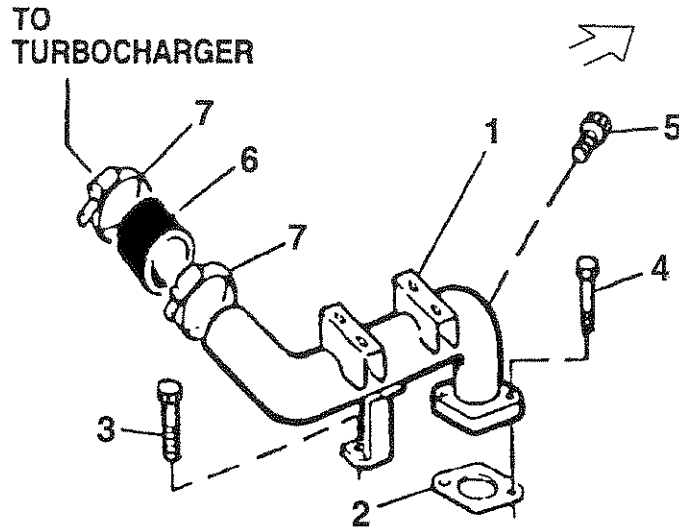
RGP6292

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
	AT203471	1	Air Filter Assembly (Includes Keys #1-7)	-
1	RE501727	1	Cover	-
2	R122386	1	Clip	-
3	AT203469	1	Outer Element	-
4	AT203470	1	Inner Element	-
5	AT175358	1	Rain Cap	-
6	T158495	1	Valve	-
7	AR35435	2	Mounting Bracket	-
8	19M7784	4	Screw, M10 x 1.5 x 20 mm	-
9	14-80811	4	Flange Nut, M10 x 1.5	-
10	R128438	1	Hose	-
11	AT56657	1	Hose Clamp	-
12	AT50923	1	Hose Clamp	-



**Intake Manifold NL445T1 & T2**

Early Production



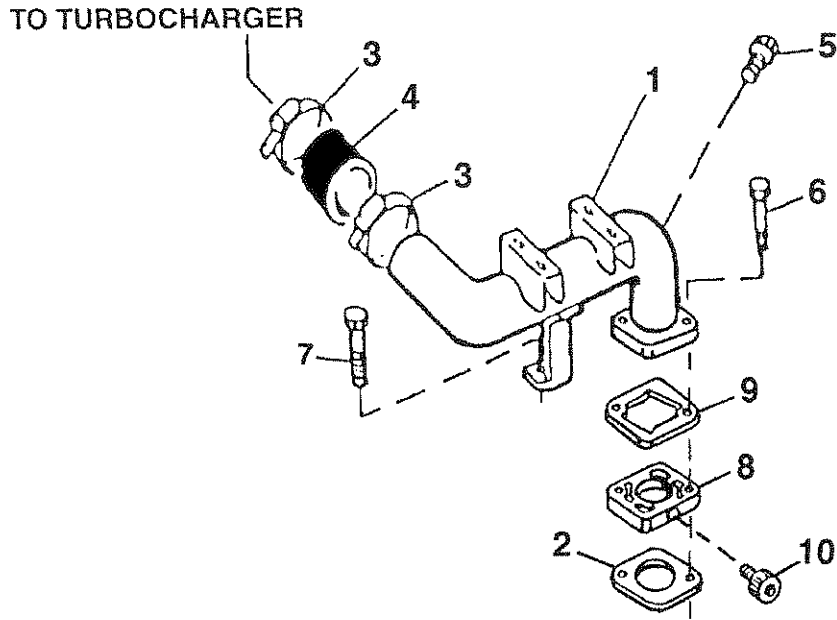
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TP60713

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE64105	1	Intake Manifold	-
2	R81275	1	Gasket	-
3	19M7784	1	Capscrew, M10 x 20	-
4	19M7785	2	Capscrew, M10 x 25	-
5	RE502903	1	Plug	-
6	R56551	1	Hose	-
7	R110531	2	Clamp	-

**Intake Manifold NL445T1 & T2**

Late Production

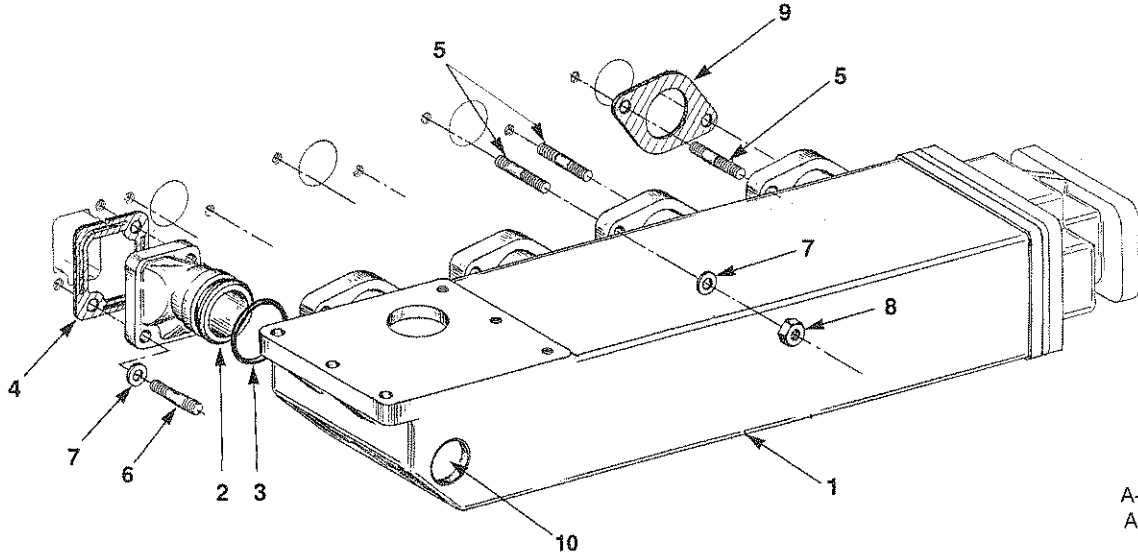


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TP61790

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE502492	1	Intake Manifold	-
2	R81275	1	Gasket	-
3	R110531	2	Clamp	-
4	R56551	1	Hose	-
5	RE60071	1	Plug	-
6	19M8292	2	Screw, M10 x 50 mm	-
7	19M7784	1	Screw, M10 x 20 mm	-
8	R501472	1	Spacer	-
9	R133893	1	Gasket	-
10	RE502903	1	Fitting	-

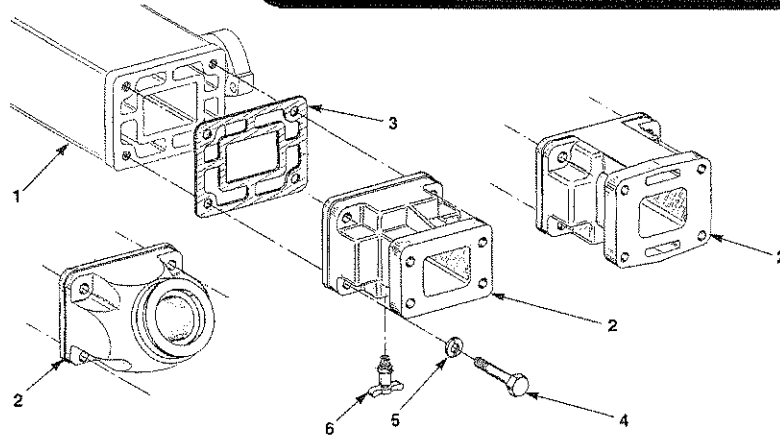
**Exhaust Manifold - Marine Application**



A-8341, A-8342,  
A-8343/ C-2632

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-31000	1	Exhaust Manifold Assembly w/ Dry Flange *	-
	10-31001	1	Exhaust Manifold Assembly w/ Wet Flange *	-
	10-31002	1	Exhaust Manifold Assembly w/ Wet Elbow Adapter *	-
2	27-11012	1	Coolant Connector	-
3	16-31000	1	O-Ring	-
4	11-39501	1	Gasket	-
5	13-34801	8	Stud, M10 x 1.5 x 35 mm	-
6	13-05001	2	Stud, M10 x 1.5 x 25 mm	-
7	15-00300	10	Washer (special)	-
8	14-00810	10	Hex Nut, M10 x 1.5	-
9	11-31011	4	Gasket	-
10	17-10001	5	Expansion Plug	-
			* See Exhaust Manifold & Adapter Detail for components	-

**Exhaust Manifold and Adapter - Marine Application**

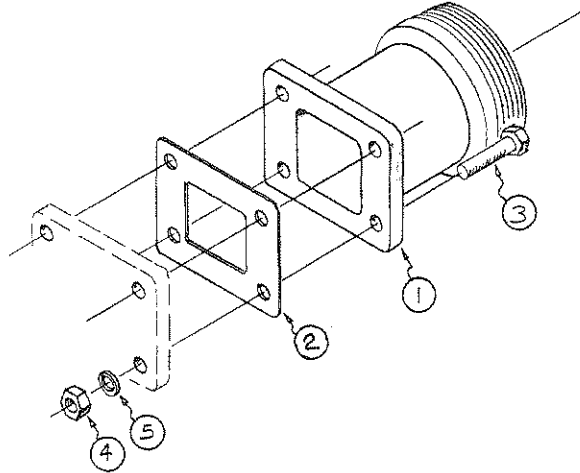


A-4653, A-4654,  
A-4655/ C-2648

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	10-31504	1	Exhaust Manifold	-
2	10-31513	1	Dry Exhaust Flange Adapter	-
	10-31506	1	Wet Exhaust Flange for Turbo Mounting	-
	31-31012	1	Wet Exhaust Elbow Adapter	-
3	11-30013	1	Gasket	-
4	12-00414	4	Capscrew, Hex Head 7/16-14 x 1-1/2"	-
5	15-00402	4	Lock Washer 7/16	-
6	21-10001	1	Drain Cock 1/8NPT	-

GROUP 2 - INTAKE AND EXHAUST SYSTEMS

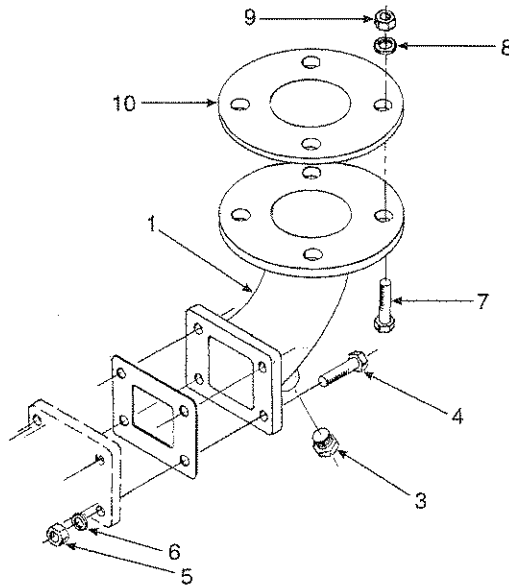
**Exhaust Adapter LP-MP445D**



A-459C/ B-1729B

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

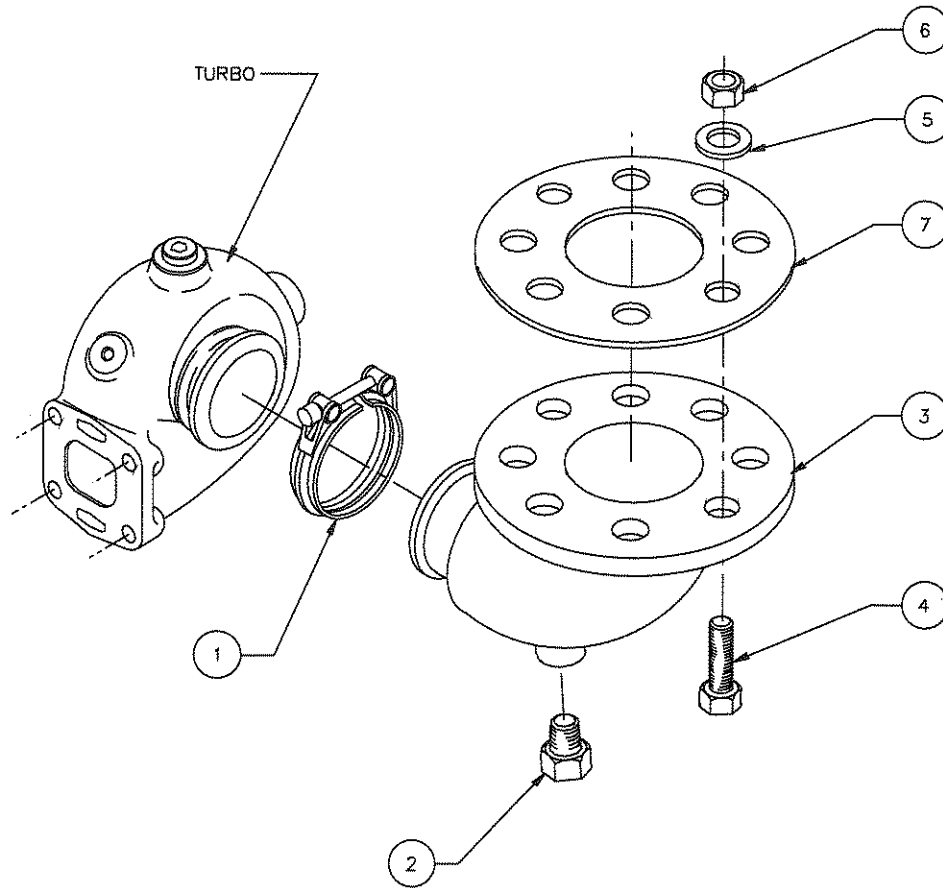
**Dry Exhaust Elbow LP-MP445D**



A-457D/ B-1725

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

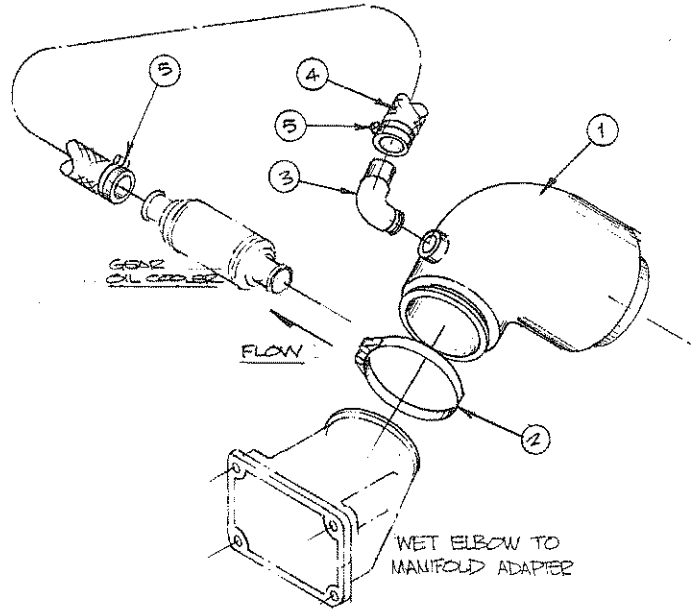
**Dry Exhaust Elbow LP-MP445T & H**



A-6337/ B-4638

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	19-31401	1	V-Clamp	-
2	21-31002	1	Plug, Square Head Brass 3/8 NPT	-
3	27-31407	1	Dry Exhaust Elbow 3"	-
4	12-00916	8	Capscrew, Hex Head 5/8-11 x 2"	-
5	15-00902	8	Lock Washer, Helical 5/8	-
6	14-00911	8	Hex Nut 5/8-11	-
7	11-31099	1	Gasket	-

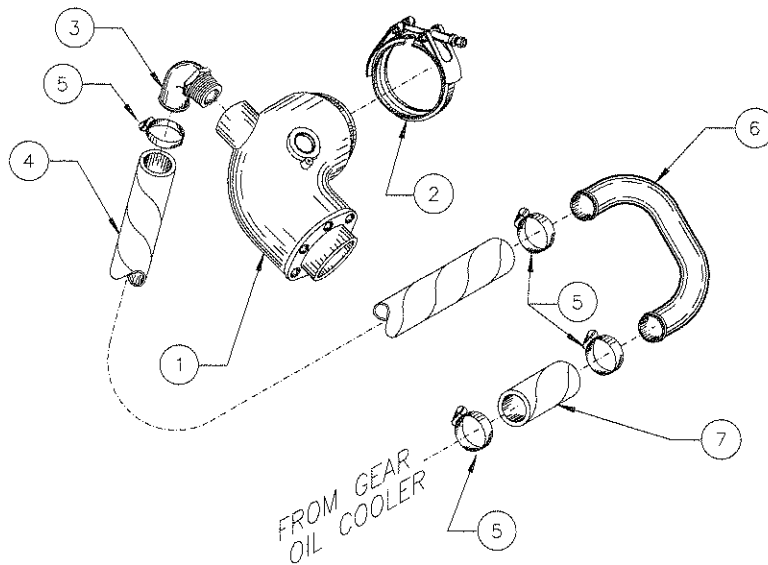
**4" Wet Exhaust Elbow LP445D (Heat Exchanged Units)**



A-3023/ B-2919

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

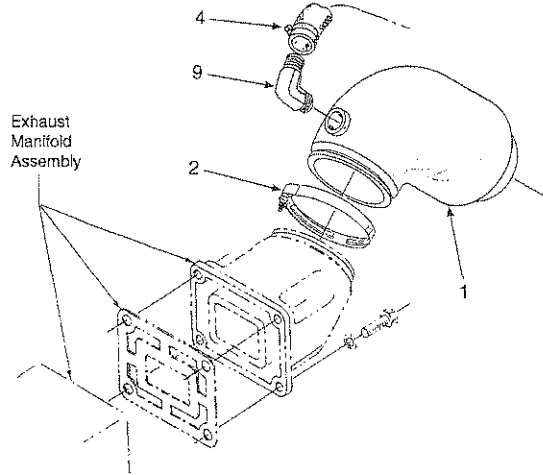
**4" Wet Exhaust Elbow LP445T (Heat Exchanged Units)**



A-3022D/ B-2918B

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	27-31412	1	Wet Exhaust Elbow 4"	-
2	19-31401	1	V-Clamp	-
3	21-31007	1	Male Elbow, Copper 1" NPT x 1-1/4" HB	-
4	18-31605	1	Hose, 1-1/4 x 32" Wire Reinforced	-
5	19-00016	3	Hose Clamp #16	-
6	27-10001	1	Tube, Gear Oil Coolant Outlet	-
7	18-11003	1	Hose, 1-1/4" ID x 2-1/2" 2 Ply	-

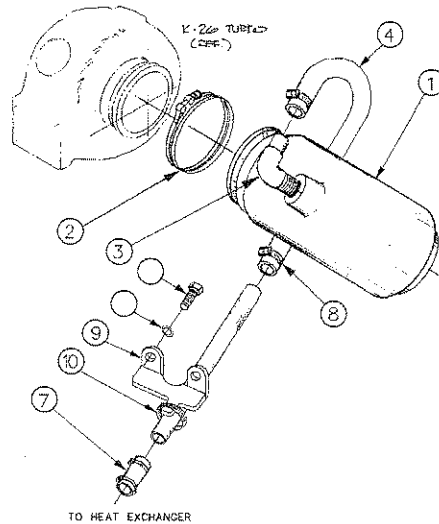
**4" Wet Exhaust Elbow MP445D (Heat Exchanged Units)**



A-8512/ B-1728z

KEY	PART NUMBER	QTY.	DESCRIPTION	SERIAL NUMBER
1	27-31412	1	Elbow, Wet Exhaust 4"	-
2	19-31401	1	V-Clamp	-
3	21-31007	1	Male Elbow, 90°, Copper, 1" NPT x 1-1/4" HB	-
4	41-01070	20"	Hose, 1-1/4" ID, Wire Reinforced	-
5	19-00020	2	Hose Clamp, #20	-
6	27-19504	1	Tube, Raw Water Outlet	-
7	18-19501	1	Hose, 1-1/4" ID x 2-1/2" 3 Ply Silicone	-
8	19-01020	2	Hose Clamp, #20 Extended Band S/S	-
9	23-19503	1	Bracket, Tube Support	-
10	19-00016	1	Hose Clamp #16	-

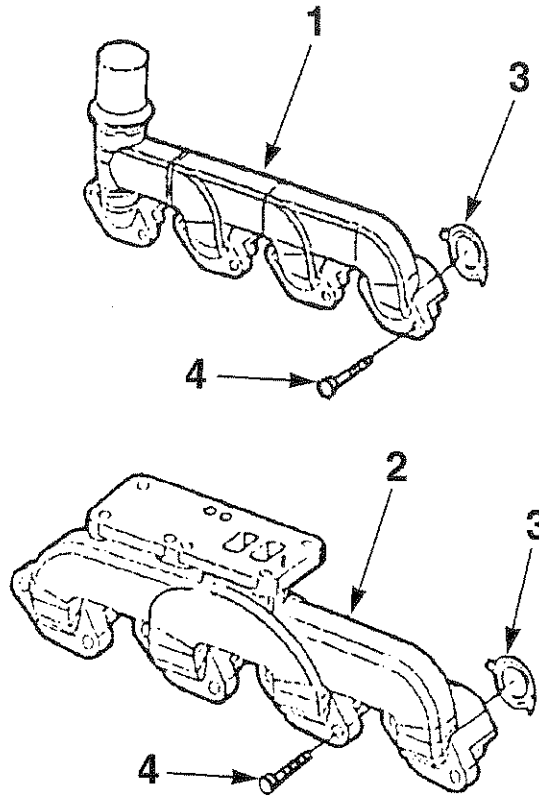
**4" Wet Exhaust Elbow MP445T & H (Heat Exchanged Units)**



A-8514/ B-6790

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

**Exhaust Manifold**



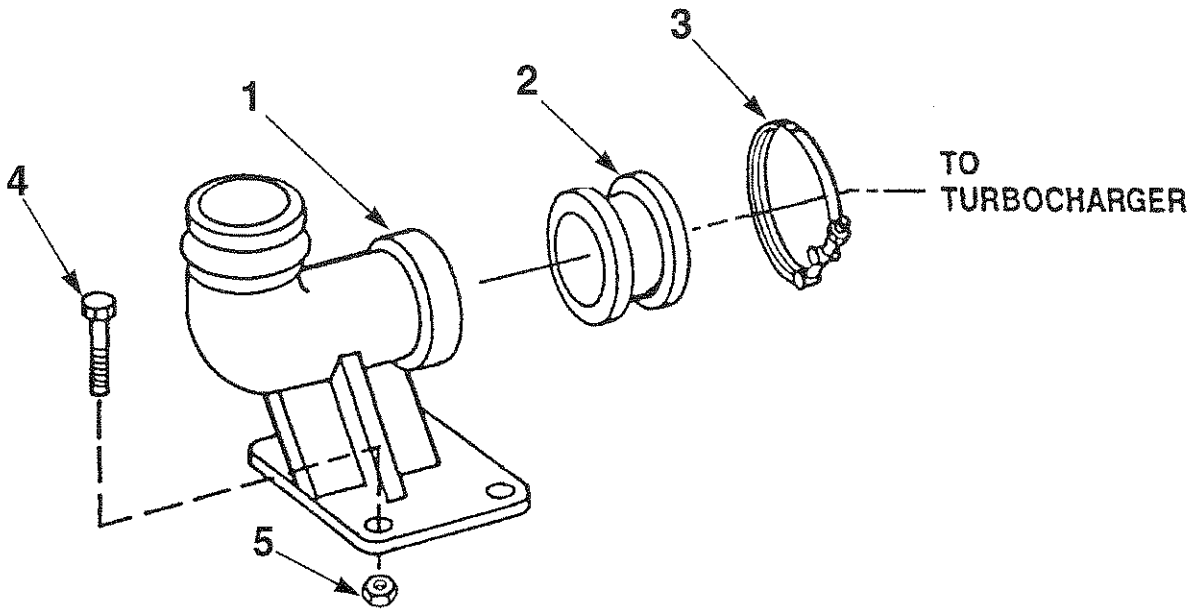
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TP53343

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R122497	1	Exhaust Manifold (naturally aspirated model)	-
2	R132373	1	Exhaust Manifold (turbocharged models)	-
3	R90658	4	Gasket	-
4	19M7810	8	Capscrew, M10 x 80	-



**Exhaust Elbow NL445T1 & T2**

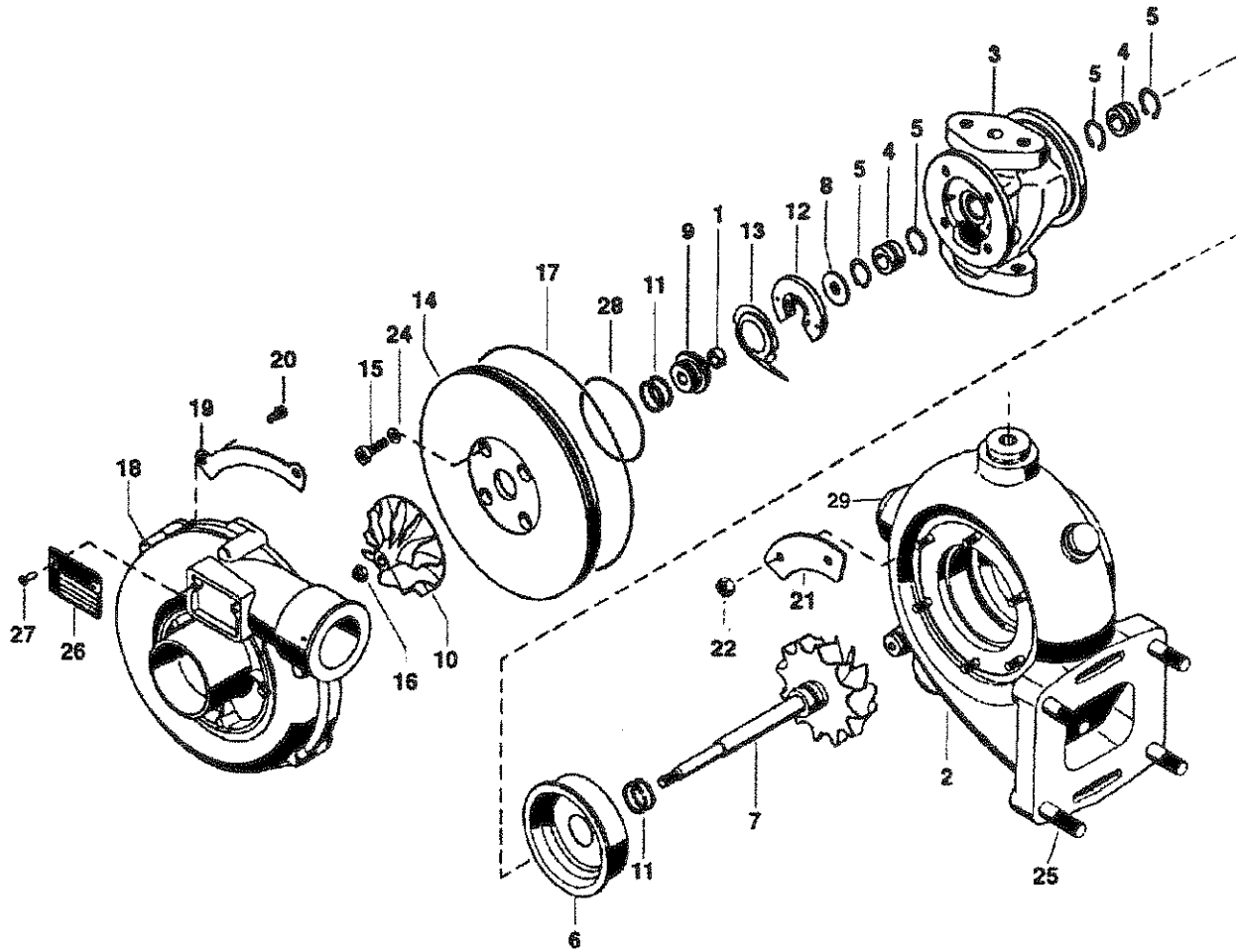


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TP49256

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

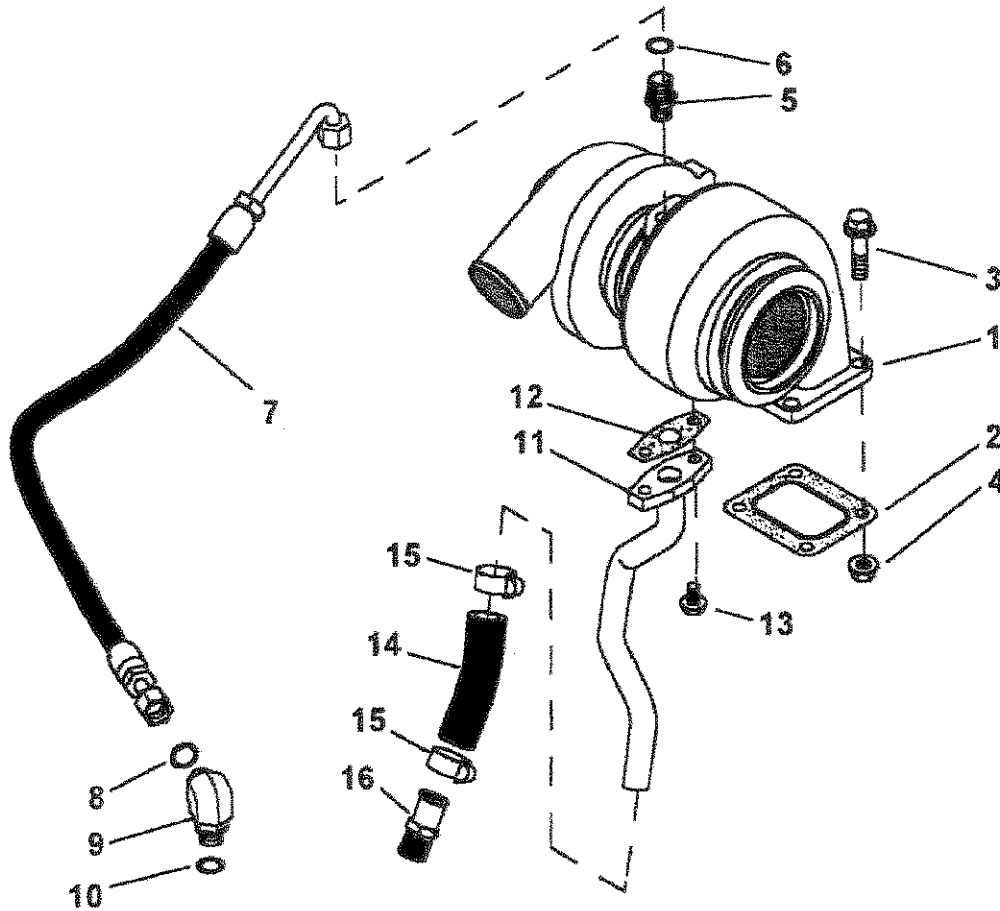
### K26 Turbocharger Assembly



## K26 Turbocharger Assembly

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

**Turbocharger NL445T1-T2**



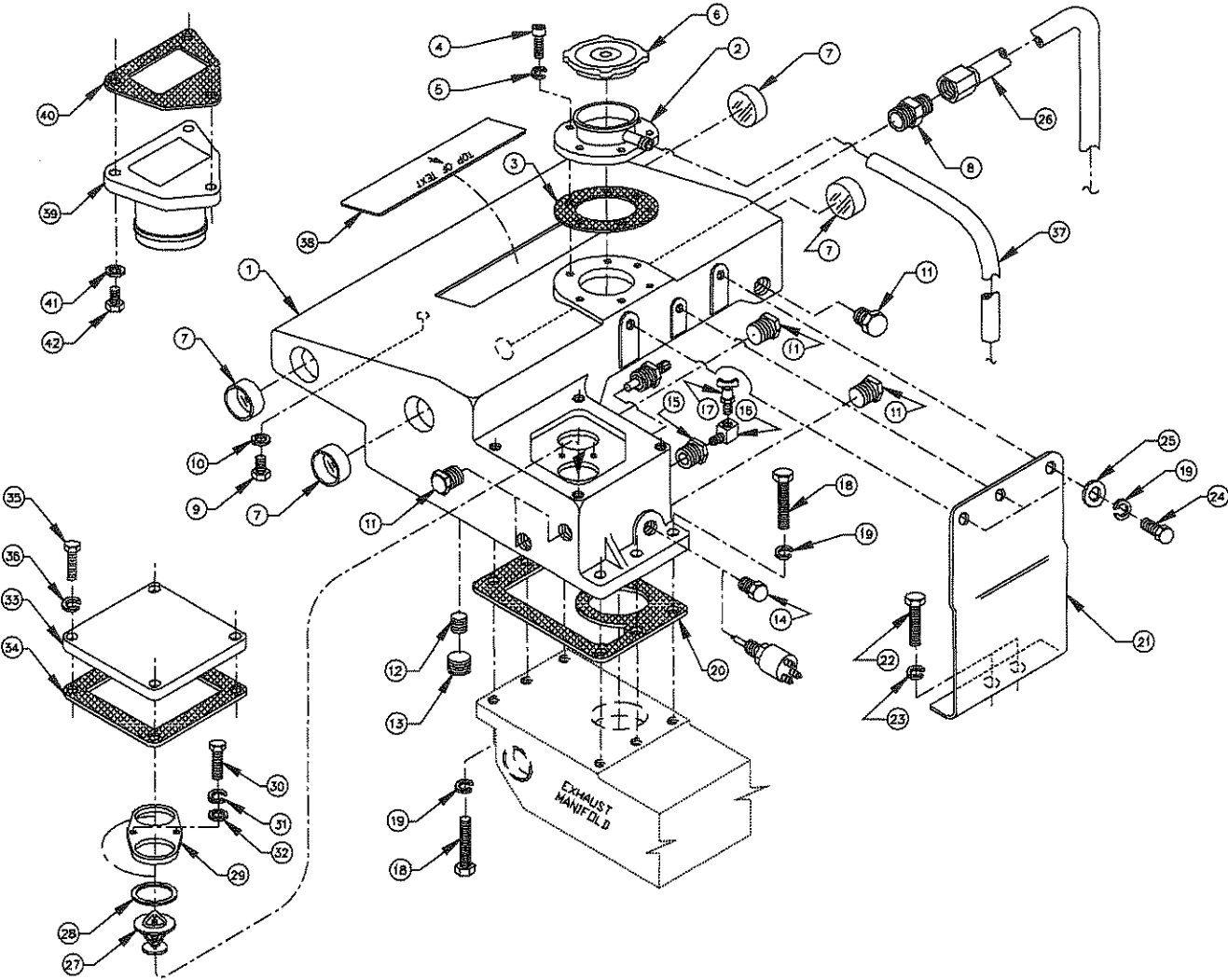
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RGP6264

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE60076	1	Turbocharger (Remanufactured)	-
2	R123572	1	Gasket	-
3	19M7785	4	Cap screw, M10 x 25	-
4	14M7296	4	Flange Nut, M10	-
5	M87733	2	Adapter	-
6	R63548	2	O-ring	-
7	RE501260	1	Hose Assembly, Oil Supply (replaces RE59488)	-
8	R63548	2	O-ring	-
9	38H5154	1	Adapter	-
10	51M7042	2	O-ring	-
11	RE59547	1	Tube, Oil Return	-
12	R123570	1	Gasket	-
13	19M7866	2	Screw	-
14	R76973	1	Hose	-
15	19-01012	2	Clamp	-
16	RE54885	1	Hose Fitting (replaces R120757)	-

Notes

# Expansion Tank Assembly



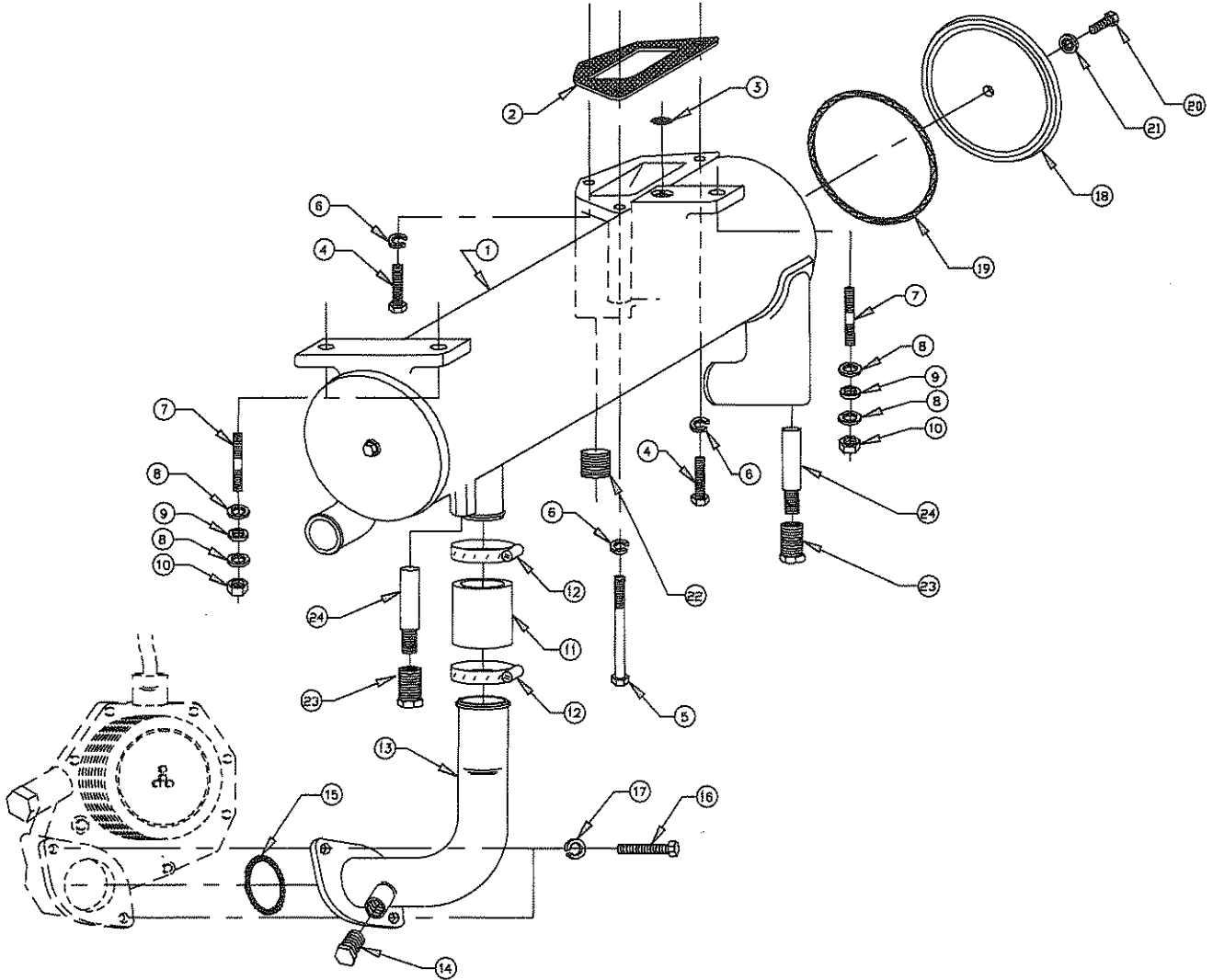
A-8340A/ C-5005

## Expansion Tank Assembly

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

\*\*As required

# Heat Exchanger



A-8348/ C-4143

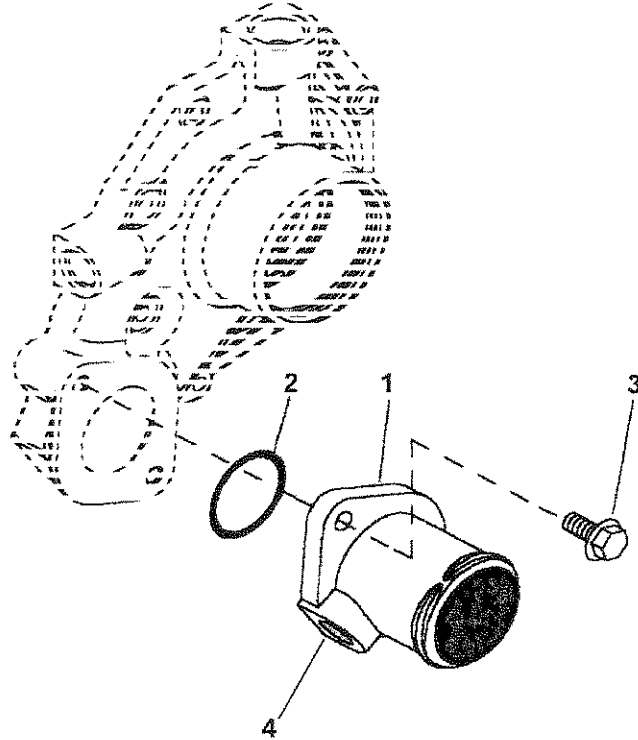


## Heat Exchanger

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

\*\*As required

**Coolant Pump Inlet**

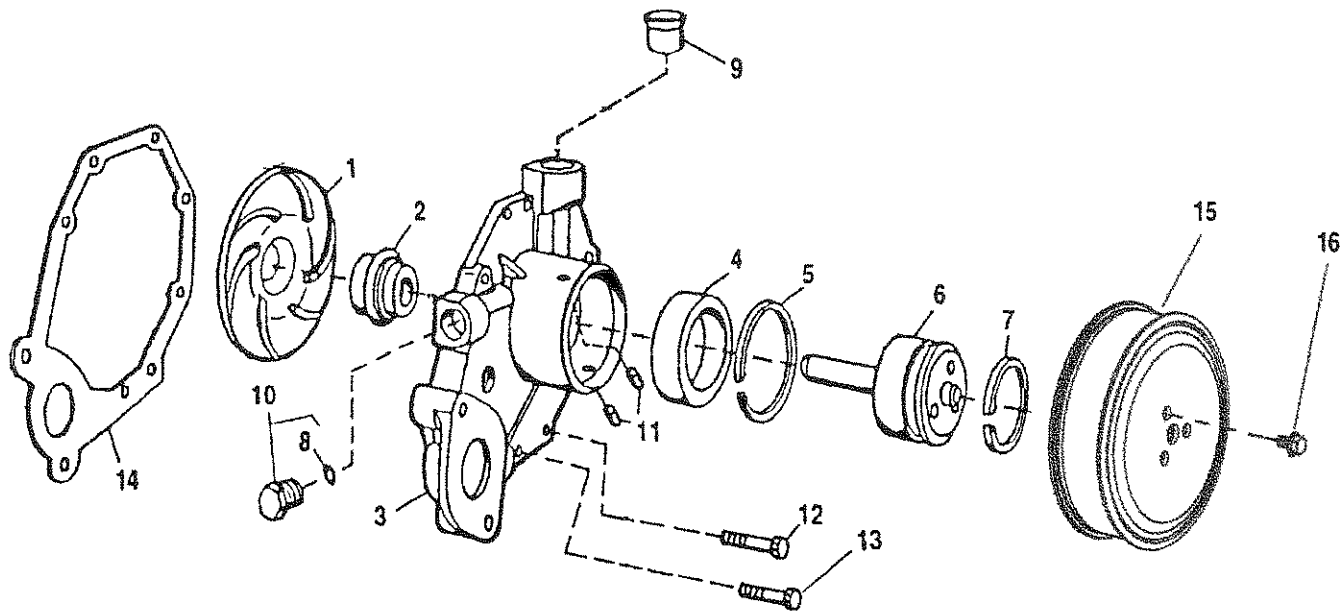


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RGP6248

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

**Coolant Pump**

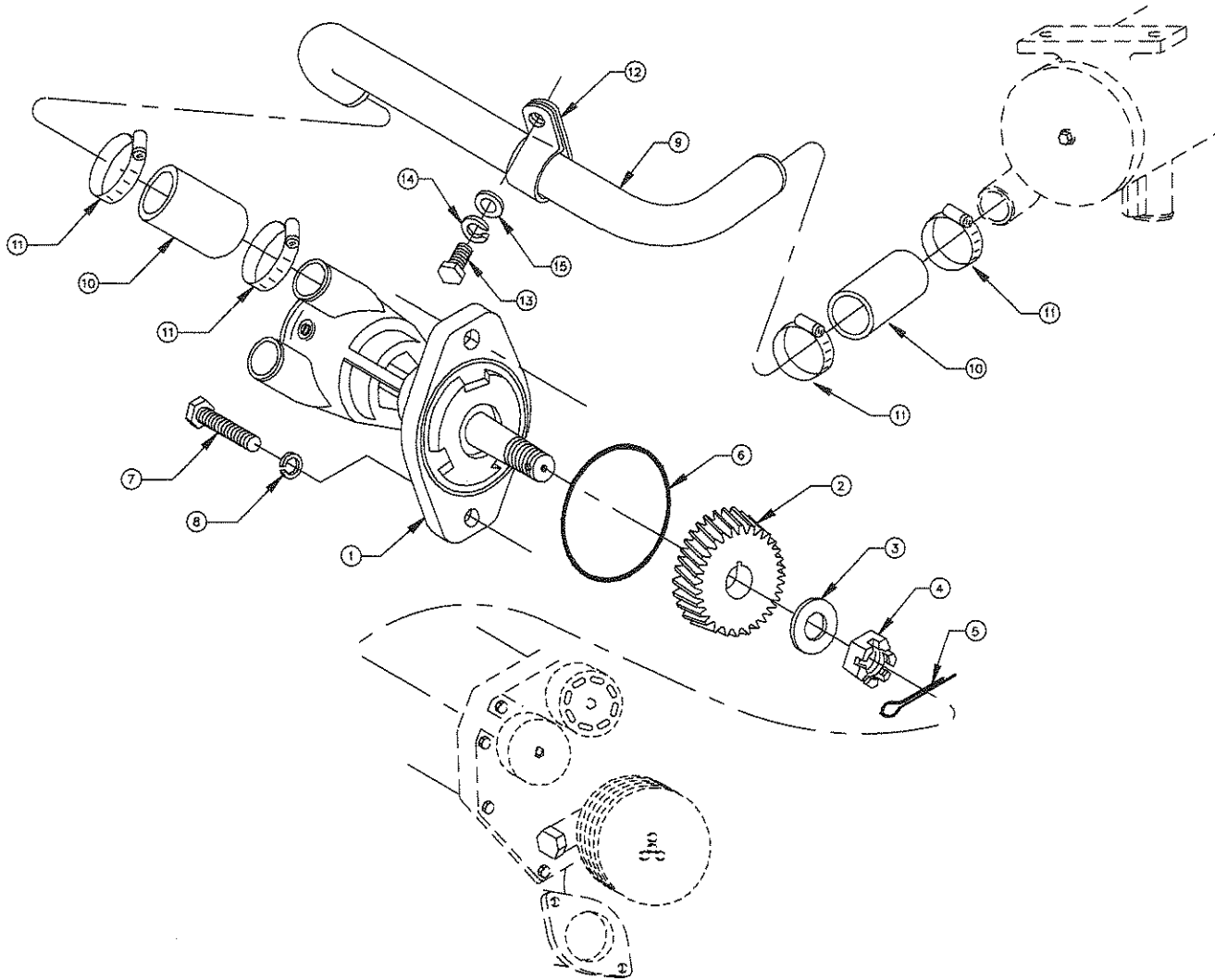


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TP50847 & RGP6114

KEY	PART NUMBER	QTY	DESCRIPTION	ENGINE S/N
••	RE500737	1	Coolant Pump, Aluminum (marked RE500737, RE56737, or RE70683, replaced by Retrofit Kit #25-19400) **	up to -124800
••	RE505981	1	Coolant Pump, Cast Iron (marked R503509)	-
•	RE515314	1	Repair Kit (formerly #RE71240)	from 124801 -
1			Impeller (marked R121036) *	-
2			Seal *	-
3			Housing *	-
4			Ball Bearing *	-
5			Ring *	-
6			Shaft *	-
7	A364R	1	Snap Ring	-
8	51M7043	1	O-ring	-
9	R123226	1	Gasket	-
10	RE46685	1	Plug	-
11	R98527	2	Filter (use with RE70683)	-
	R100369	2	Filter (use with RE500737)	-
12	19M7863	5	Cap screw, M6 x 25	-
13	19M7796	3	Cap screw, M6 x 30	-
14	R123417	1	Gasket	-
15	R121038	1	Pulley, 112 mm OD	-
16	19M7784	1	Cap screw, Flanged Head M6 x 1.0 x 12 mm	-
17	RE508566	1	Timing Cover Insert Kit (not shown)	-
			* Not available separately - order Pump Repair Kit or Coolant Pump Assembly	
			**Note: Retrofit Kit includes Pump RE505981, Timing Cover Insert, Gaskets, and instructions.	

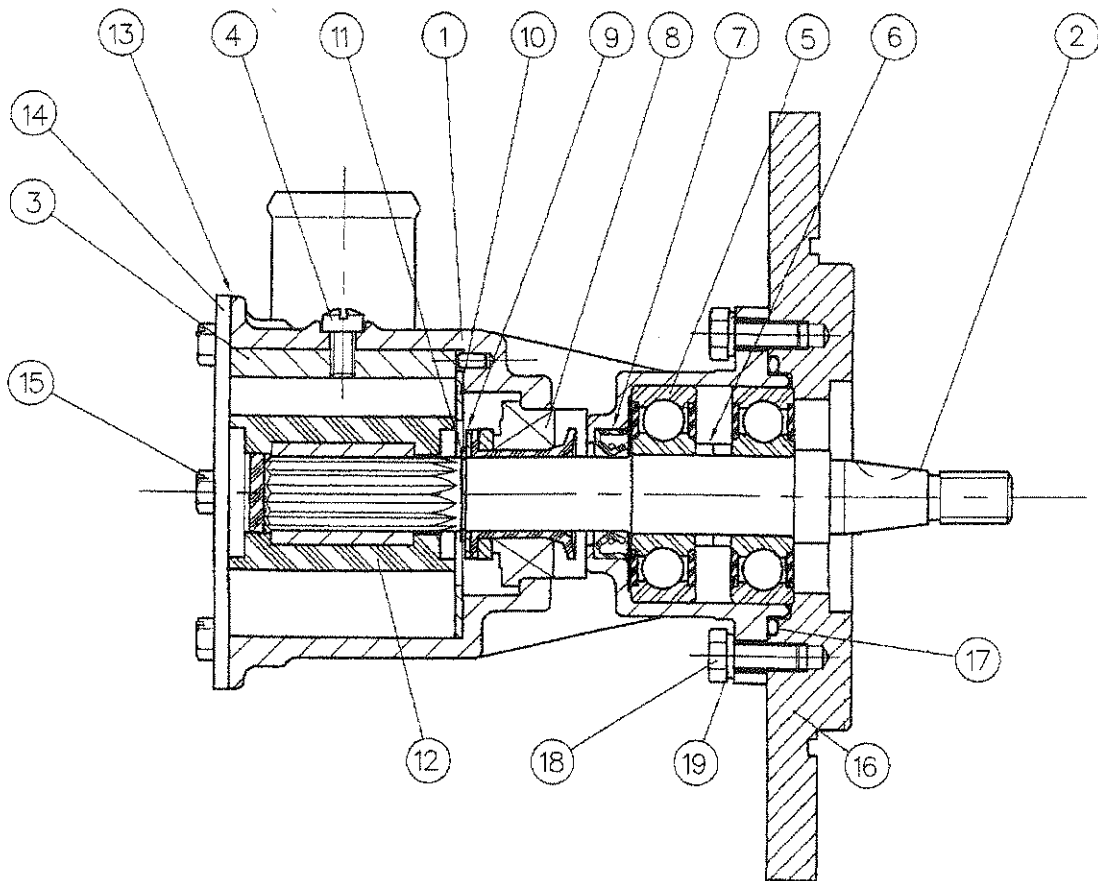
**Raw Water Pump and Mounting**



A-8362/ C-4177

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	25-19501	1	Raw Water Pump (See Parts Detail)	-
2	R135101	1	Gear	-
3	15-19503	1	Shaft Flat Washer	-
4	14-19501	1	Hex Nut, Slotted	-
5	32-00005	1	Cotter Pin	-
6	16-19503	1	O-Ring	-
7	12-00954	2	Capscrew, Hex Head, M12 x 1.75 x 35 mm	-
8	15-00912	2	Lock Washer, Helical M12	-
9	27-19502	1	Tube	-
10	18-19501	2	Hose, 1-1/4" I.D. x 2-1/2"	-
11	19-01020	4	Hose Clamp #20	-
12	19-71031	1	Adelle Clamp	-
13	12-00805	1	Capscrew, Hex Head, M10 x 1.5 x 20 mm	-
14	15-00802	1	Lock Washer, Helical M10	-
15	15-00805	1	Flat Washer, M10	-

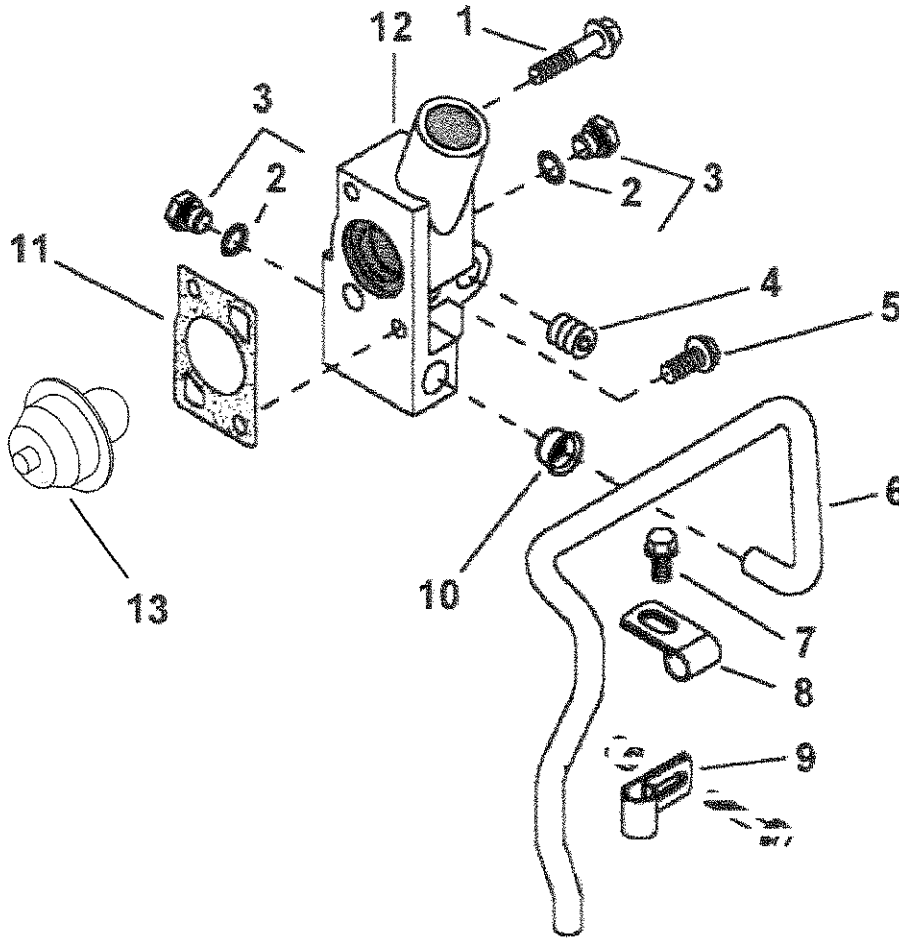
**Raw Water Pump Assembly**



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

**Thermostat & Housing Assembly**

NL445D1 - NL445T1 - NL445T2

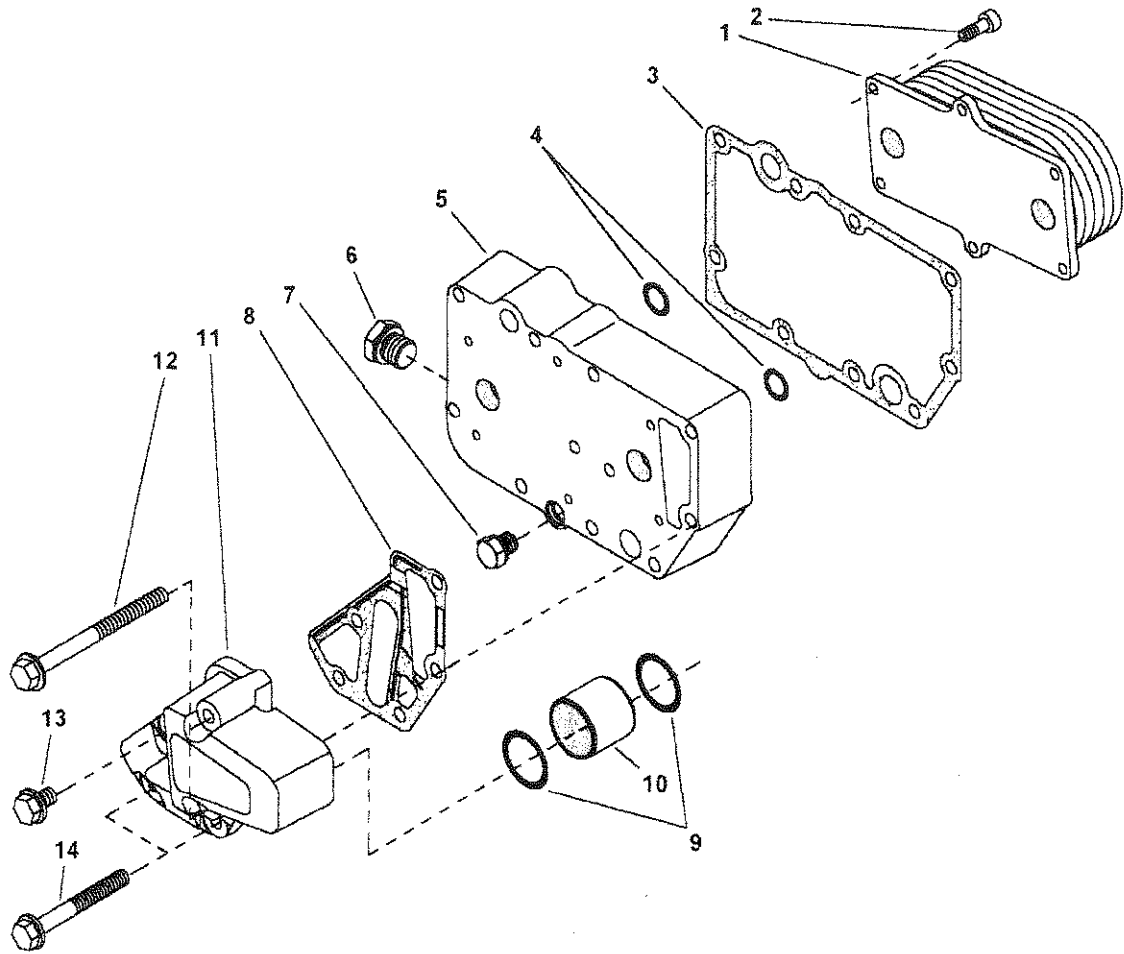


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RGP6117 & 6121

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

**Engine Oil Cooler**

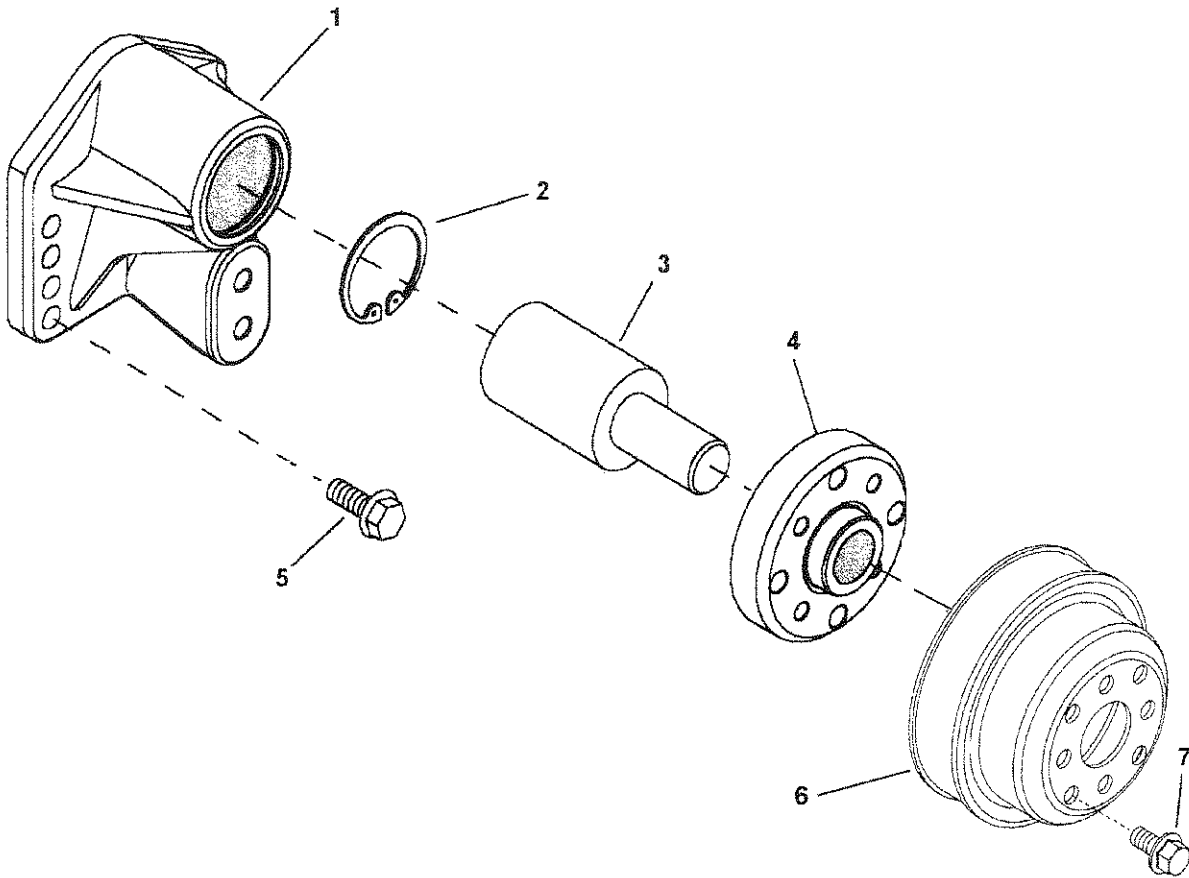


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RGP6253

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE59812	1	Oil Cooler Element (without turbocharger)	-
	RE59296	1	Oil Cooler Element (with turbocharger)	-
2	RE67231	1	Capscrew, M6 x 16	-
3	R123501	1	Gasket	-
4	T122075	2	O-ring	-
5	R123471	1	Housing	-
6	RE46685	1	Plug	-
7	RE46686	1	Plug	-
8	R501428	1	Gasket	-
9	R61105	2	O-ring	-
10	R115252	1	Tube	-
11	R135177	1	Adapter	-
12	19M7970	2	Capscrew, M8 x 100	-
13	RE67238	1	Capscrew, M8 x 20	-
14	19M7802	2	Capscrew, M8 x 65	-

**Idler Shaft Assembly**



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RGP6123 & RGP6278

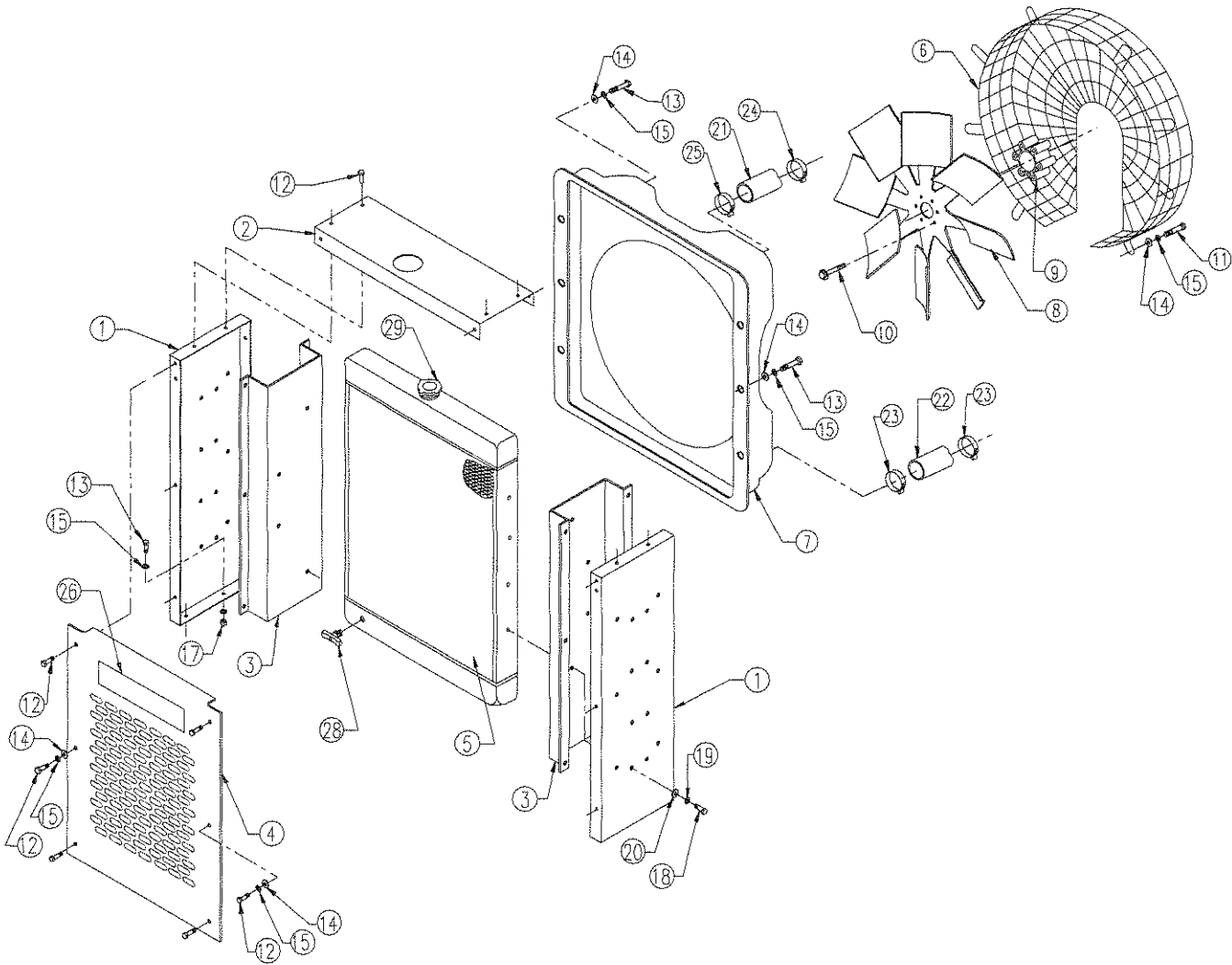
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE500539	1	Idler Shaft (includes keys 2-4)	-
2	H80753	1	Snap Ring	-
3		1	Bearing*	-
4		1	Hub*	-
5	19M7835	4	Capscrew	-
6	R128660	1	Pulley, 168 mm O.D. (LP445D - T- MP445D-T-H - NL445T1-T2)	-
	R128658	1	Pulley, 140 mm O.D. (NL445D1)	-
7	19M7784	4	Capscrew	-
			*No longer available separately - use RE500539.	





# Radiator

NL445D1



A-7614/ C-5780

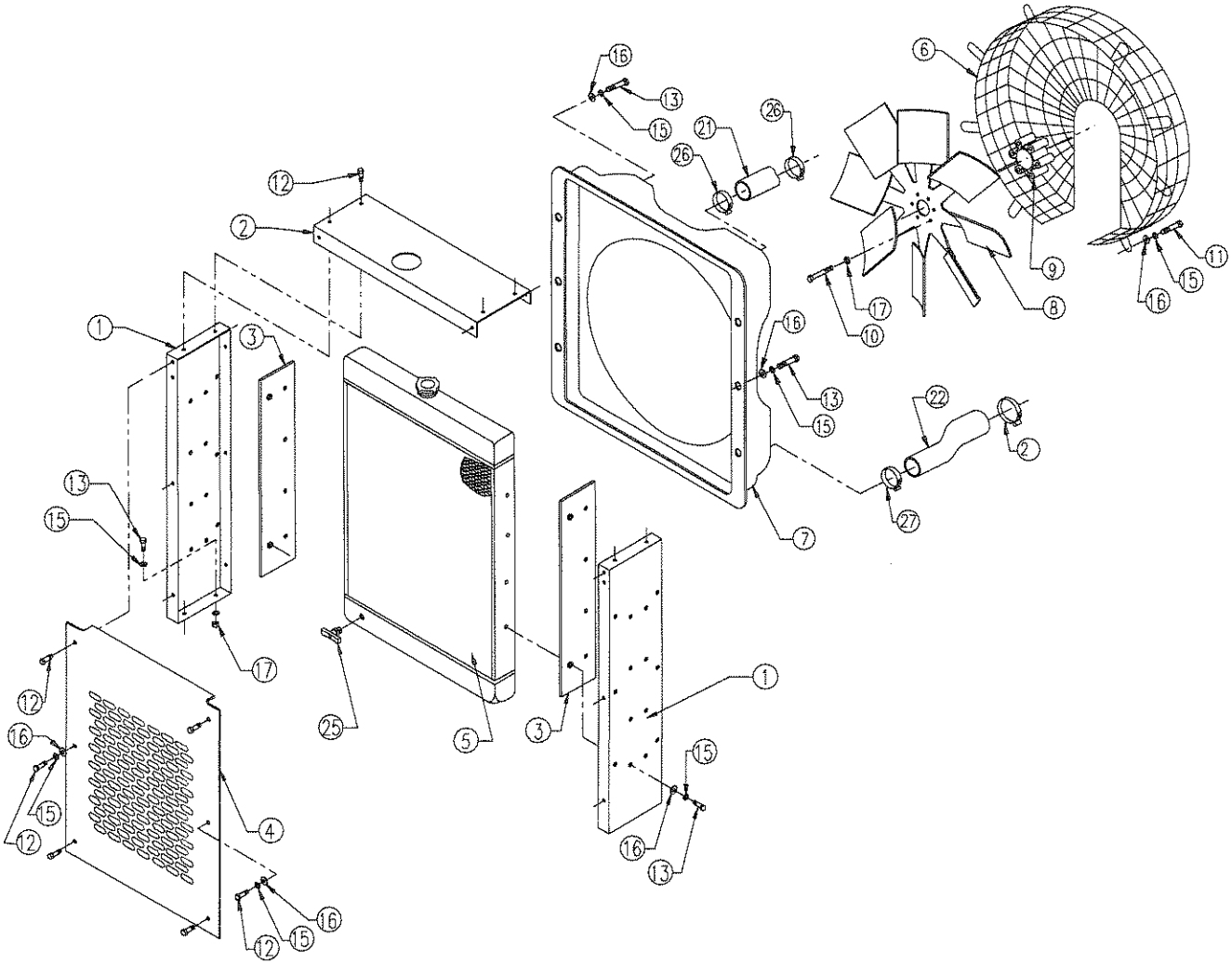
## Radiator

NL445D1

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-11015	2	Side Panel	-
2	39-11016	1	Top Panel	-
3	23-11010	2	Bracket, Radiator Mtg.	-
4	39-11017	1	Grille	-
5	RE64110	1	Radiator	-
6	RE64109	1	Fan Shroud	-
7	RE64108	1	Fan Guard	-
8	RE47518	1	Fan 18" (Blower)	-
9	R128442	1	Spacer, Fan Mtg.	-
10	12-80049	4	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm	-
11	12-00312	4	Capscrew, Hex Head 3/8- 16 x 1"	-
12	12-00311	12	Capscrew, Hex Head 3/8- 16 x 3/4"	-
13	12-00362	6	Capscrew, Hex Head 3/8- 16 x 1/2"	-
14	15-00321	18	Flat Washer 3/8" SAE	-
15	15-00302	8	Lock Washer, Helical 3/8"	-
16	14-00312	12	Hex Nut, Nylock 3/8- 16	-
17	14-00301	6	U-nut 3/8- 16	-
18	12-00209	16	Capscrew, Hex Head 5/16- 18 x 3/4"	-
19	15-00202	20	Lock Washer, Helical 5/16"	-
20	15-00221	8	Flat Washer 5/16" SAE	-
21	R128455	1	Hose, Radiator Inlet	-
22	R128456	1	Hose, Radiator Outlet	-
23	19-00028	2	Hose Clamp #28	-
24	19-00036	1	Hose Clamp #36	-
25	19-00032	1	Hose Clamp #32	-
26	00-70082	1	Label, "Northern Lights"	-
27	41-01013	36	Hose, Polyvinyl 5/16" ID x 7/16" OD	-
28	21-10002	1	Drain Cock, Brass 1/4 NPT	-

# Radiator

NL445T1 - T2



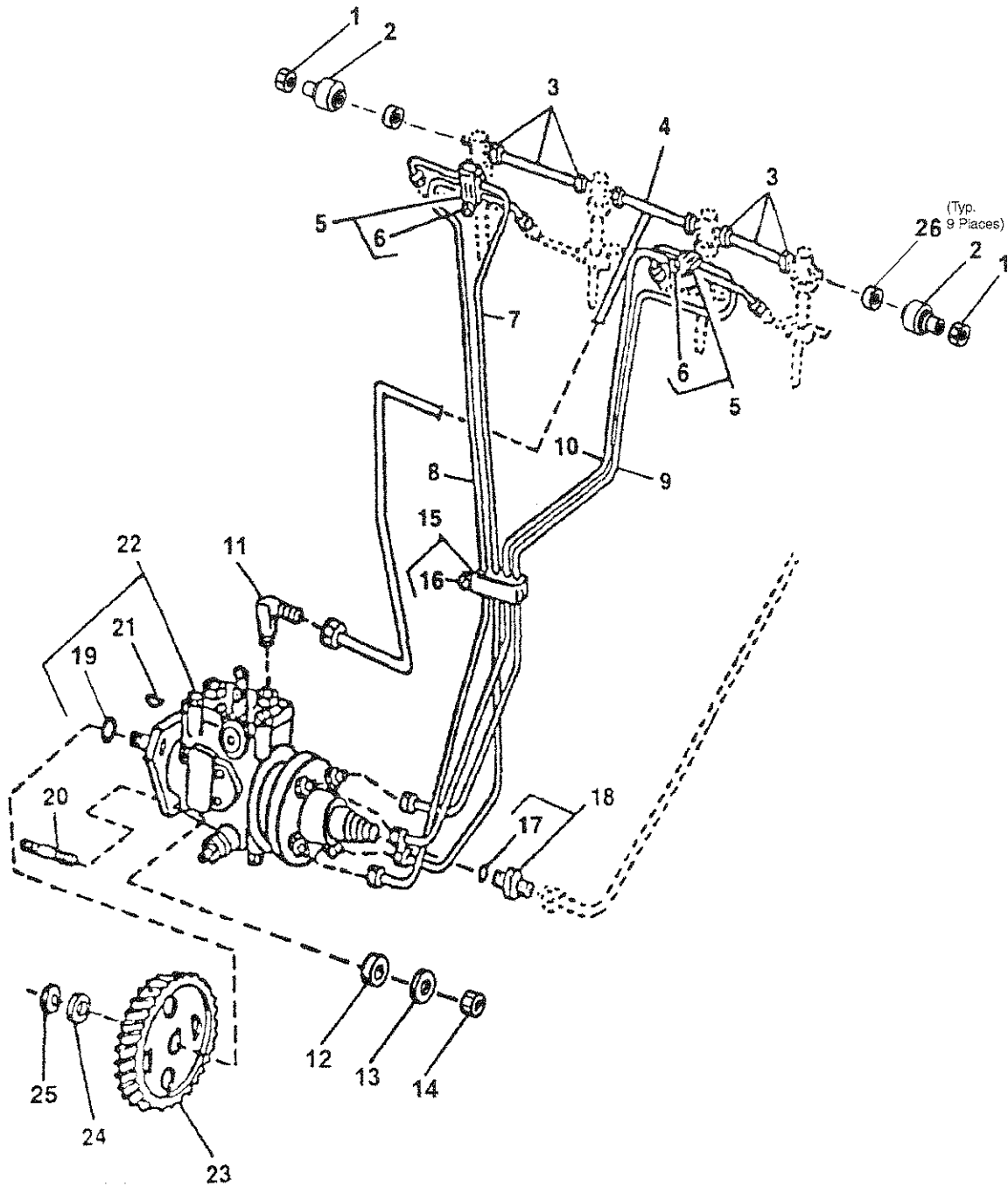
A-7615/ C-5778

## Radiator

NL445T1 - T2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-11015	2	Side Panel	-
2	39-11016	1	Top Panel	-
3	21-11001	2	Spacer Plate, Radiator Mtg.	-
4	39-11017	1	Grille	-
5	RE64112	1	Radiator	-
6	RE64114	1	Fan Shroud	-
7	RE57059	1	Fan Guard	-
8	AT24834	1	Fan 23" (Blower)	-
9	R128442	1	Spacer, Fan Mtg.	-
10	12-80049	4	Capscrew, Hex Head Flanged M10 x 1.5 x 80 mm	-
11	12-00313	4	Capscrew, Hex Head 3/8- 16 x 1- 1/4"	-
12	12-00362	4	Capscrew, Hex Head 3/8- 16 x 1/2"	-
13	12-00311	14	Capscrew, Hex Head 3/8- 16 x 3/4"	-
14	12-00314	2	Capscrew, Hex Head 3/8- 16 x 1- 1/2"	-
15	15-00302	10	Lock Washer, Helical 3/8	-
16	15-00301	6	Flat Washer, 3/8"	-
17	14-00312	14	Hex Nut, Nylock 3/8- 16	-
18	14-00301	6	U-nut, 3/8- 16	-
19	12-03310	4	Capscrew, Flangehead Socket 3/8- 16 x 3/4"	-
21	R128455	1	Hose, Radiator Inlet	-
22	R128480	1	Hose, Radiator Outlet	-
23	00-70082	1	Label "Northern Lights"	-
24	41-01013	36	Hose, Polyvinyl 5/16" ID x 7/16" OD	-
25	21-10002	1	Drain Cock, Brass 1/4 NPT	-
26	19-00028	2	Hose Clamp #28	-
27	19-00032	1	Hose Clamp #32	-
28	19-00036	1	Hose Clamp #36	-

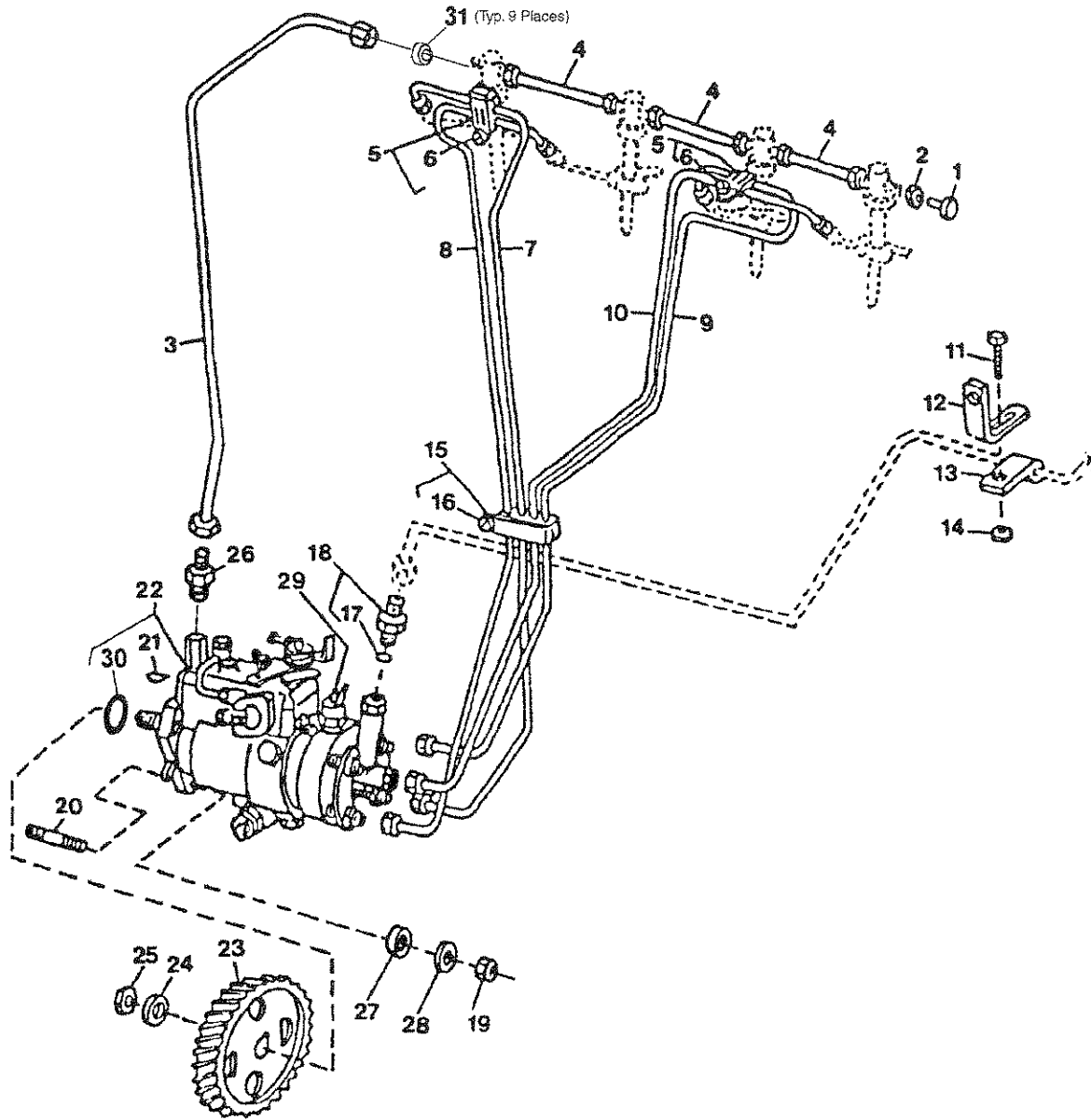
# Fuel Injection System LP445D



## Fuel Injection System LP445D

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	R123593	8	Nut	-
2	AR85519	2	Plug	-
3	RE68748	2	Tube Assembly (includes keys 1 & 26)	-
4	RE70848	1	Tube Assembly (includes keys 1 & 26)	-
5	RE19797	2	Clamp	-
6	19M7923	2	Capscrew, M6 x 12	-
7	RE59447	1	Fuel Line, No. 1	-
8	RE59448	1	Fuel Line, No. 2	-
9	RE59449	1	Fuel Line, No. 3	-
10	RE59450	1	Fuel Line, No. 4	-
11	R67364	1	Elbow Fitting, No. 2	-
12	12M7065	3	Lock Washer	-
13	T27860	3	Washer	-
14	14M7273	3	Nut, M8	-
15	RE19799	1	Clamp	-
16	19M7923	1	Capscrew, M6 x 12	-
17	51M7040	1	O-ring	-
18	RE60029	1	Fitting	-
19	R502076	1	O-ring	-
20	R116386	3	Stud	-
21	26H10	1	Shaft Key	-
22		1	Fuel Injection Pump (See Application Chart page 4-12)	-
23	R132267	1	Gear	-
24	R132874	1	Washer	-
25	R91360	1	Nut, M14	-
26	R51936	9	Tube Seal	-

Fuel Injection System LP445T



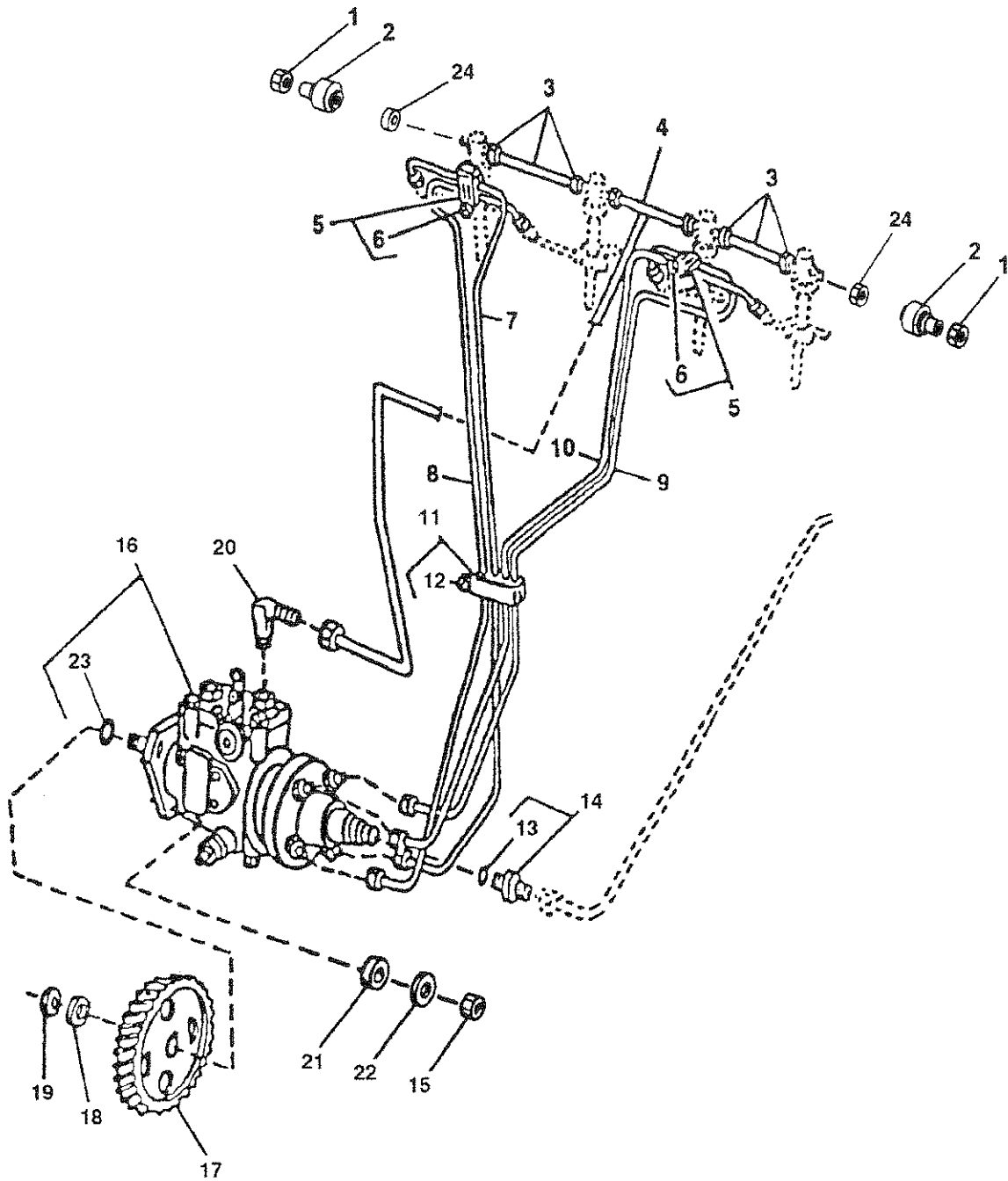


## Fuel Injection System LP445T

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	AR85519	1	Plug	-
2	R123593	8	Nut (replaces R51937)	-
3	RE60012	1	Tube Assembly (includes keys 2 & 31)	-
4	RE68748	3	Tube Assembly (includes keys 2 & 31)	-
5	RE19797	2	Clamp	-
6	19M7300	2	Capscrew, M6 x 10	-
7	RE60042	1	Fuel Line, No. 1	-
8	RE60043	1	Fuel Line, No. 2	-
9	RE60044	1	Fuel Line, No. 3	-
10	RE60045	1	Fuel Line, No. 4	-
11	19M7865	1	Capscrew, M8 x 16, No. 2	-
12	R116116	1	Bracket	-
13	T14050	1	Clamp	-
14	14M7298	1	Flange Nut, M8	-
15	RE19799	1	Clamp	-
16	19M7300	1	Capscrew, M6 x 10	-
17	51M7040	1	O-ring	-
18	RE60029	1	Fitting	-
19	14M7273	3	Nut, M8	-
20	R116386	3	Stud	-
21	26H10	1	Shaft Key	-
22		1	Fuel Injection Pump (See Application Chart page 4-12)	-
23	R132267	1	Gear	-
24	R132874	1	Washer	-
25	R91360	1	Nut, M14	-
26	RE60028	1	Fitting	-
27	T27860	3	Washer	-
28	12M7065	3	Lock Washer	-
29	22-59601	1	Solenoid, 12 Volt (Energize-to-stop)	-
	22-59501	1	Solenoid 12 Volt Isolated Ground (Energize-to-stop)	-
30	R128799	1	O-ring	-
31	R51936	9	Tube Seal	-

\*Replaced by Solenoid 22-59501 and Harness Assembly 22-59504

Fuel Injection System MP445D - T - H

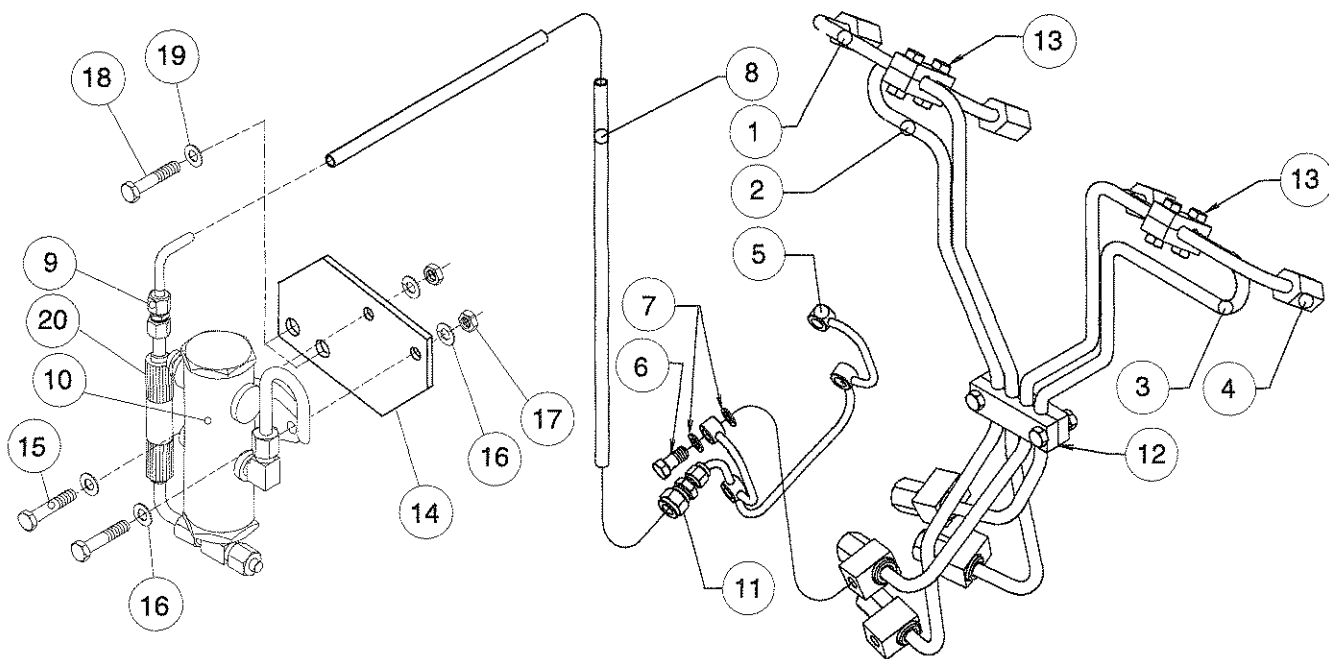


## Fuel Injection System MP445D - T - H

KEY	PART NUMBER	QTY	DESCRIPTION	JOHN DEERE S/N
1	R123593	8	Nut	-
2	AR85519	2	Plug	-
3	RE68748	2	Tube Assembly (includes keys 1 & 24)	-
4	RE70848	1	Tube Assembly (includes keys 1 & 24)	-
5	RE19797	2	Clamp	-
6	19M7923	2	Cap screw, M6 x 12	-
7	RE59447	1	Fuel Line, No. 1	-
8	RE59448	1	Fuel Line, No. 2	-
9	RE59449	1	Fuel Line, No. 3	-
10	RE59450	1	Fuel Line, No. 4	-
11	RE19799	1	Clamp	-
12	19M7923	1	Cap screw, M6 x 12	-
13	51M7040	1	O-ring	-
14	RE60029	1	Fitting	-
15	14M7273	3	Nut, M8	-
16		1	Fuel Injection Pump (See Application Chart page 4-12)	-
17	R132267	1	Gear	-
18	R132874	1	Washer	-
19	R91360	1	Nut, M14	-
20	R67364	1	Elbow Fitting	-
21	12M7065	3	Lock Washer	-
22	T27860	3	Washer	-
23	R502076	1	O-ring (replaces R89944)	-
	T16318	1	O-ring	-
24	R51936	9	Tube Seal	-

### Double Wall Fuel Lines

MP445D- T- H



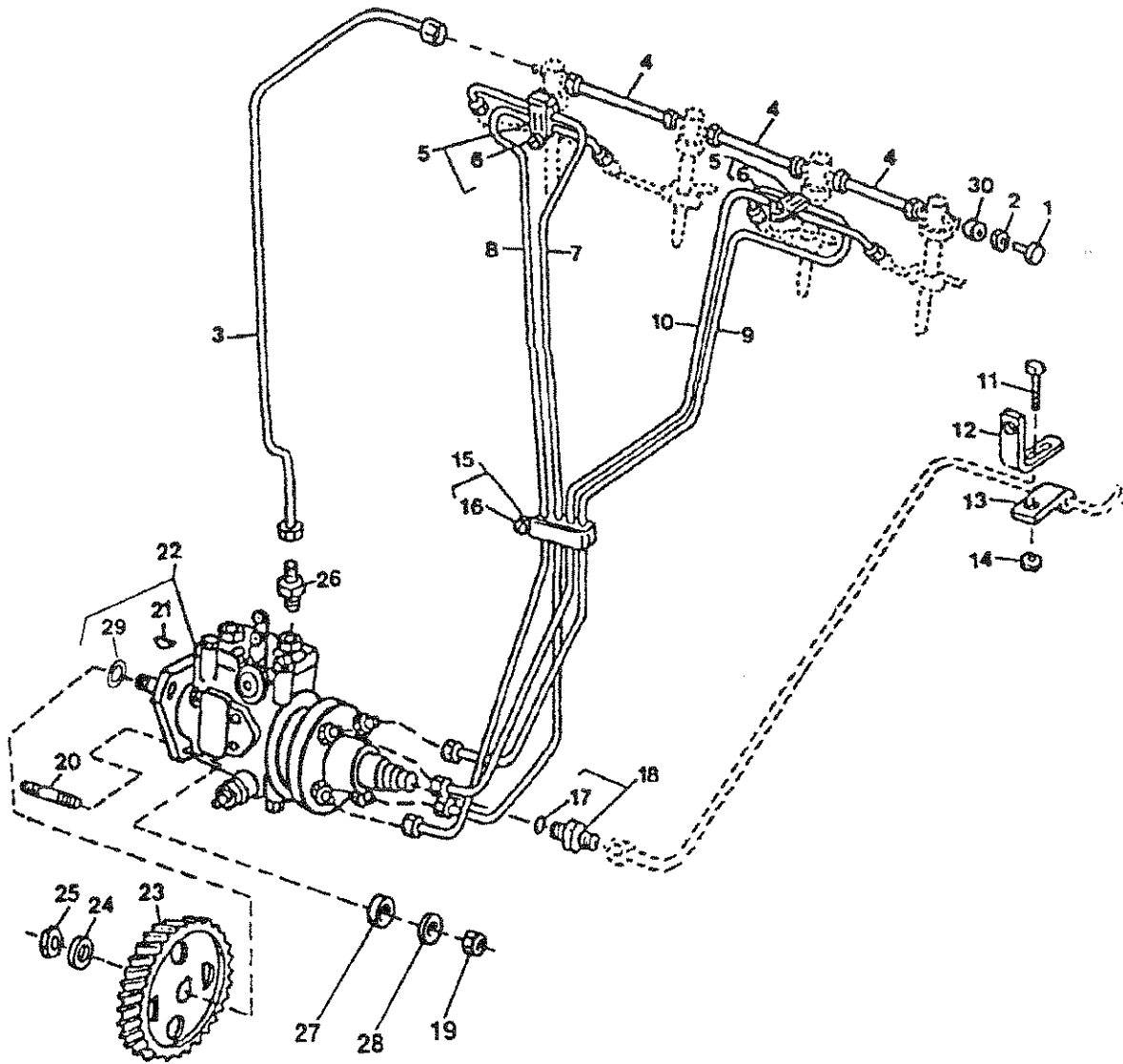
A-/ STI3097-1Giro&ST14555-2

## Double Wall Fuel Lines

MP445D- T- H

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	27-59401	1	Injection Line #1 Double Wall	-
2	27-59402	1	Injection Line #2 Double Wall	-
3	27-59403	1	Injection Line #3 Double Wall	-
4	27-59404	1	Injection Line #4 Double Wall	-
5	10-59401	1	Drain Manifold	-
6	21-59504	4	Banjo Bolt M8 x .75 x 16 mm	-
7	15-59501	8	Sealing Washer, Copper M8	-
8	43-00008	1	Tubing 8 mm O.D.	-
9	21-55703	1	Union, Steel 8 mm	-
10	10-50002	1	Alarm Tank Assembly	-
11	21-50041	1	Reducing Union Brass 3/16 x 5/16	-
12	19-50014	1	Clamp Assembly, 4 Lines	-
13	19-50012	2	Clamp Assembly, 2 Lines	-
14	23-59601	1	Bracket, Alarm Tank Mtg.	-
15	12-00753	2	Capscrew, Hex Head M8 x 1.25 x 30 mm	-
16	15-00701	4	Flat Washer M8	-
17	14-04802	2	Hex Nut, Nylock M8 x 1.25	-
18	12-00911	2	Capscrew, Hex Head M12 x 1.75 x 20 mm	-
19	15-00912	2	Lock Washer, Helical M12	-

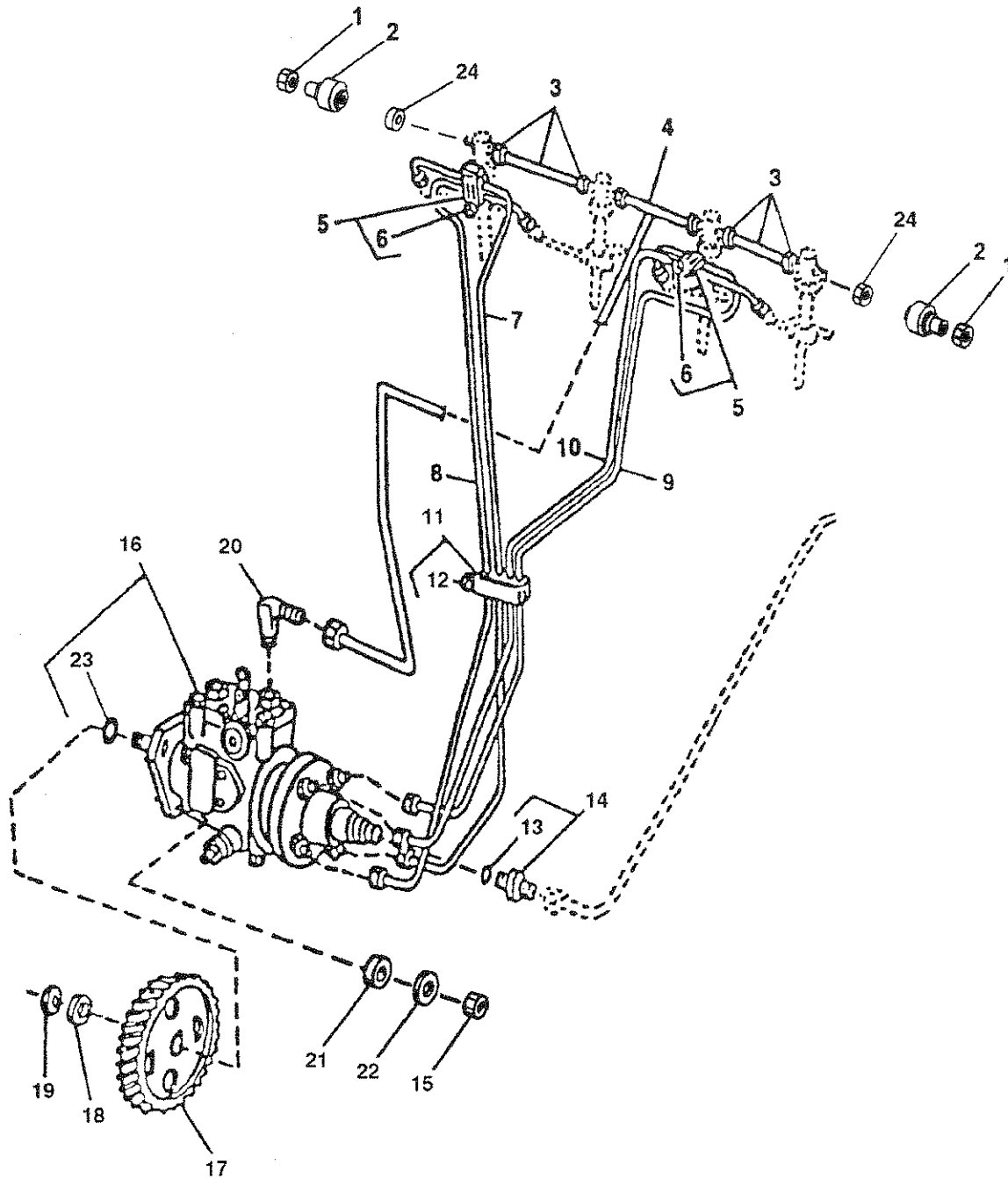
# Fuel Injection System NL445D1



## Fuel Injection System NL445D1

KEY	PART NUMBER	QTY	DESCRIPTION	JOHN DEERE S/N
1	AR85519	1	Plug	up to - 717811
2	R123593	8	Nut (replaces R51937)	"
3	RE60012	1	Tube Assembly (includes keys 2 & 30)	"
4	RE68748	3	Tube Assembly (includes keys 2 & 30)	"
5	RE19797	2	Clamp	"
6	19M7300	2	Capscrew, M6 x 10	"
7	RE59447	1	Fuel Line, No. 1	"
8	RE59448	1	Fuel Line, No. 2	"
9	RE59449	1	Fuel Line, No. 3	"
10	RE59450	1	Fuel Line, No. 4	"
11	19M7865	1	Capscrew, M8 x 16, No. 2	"
12	R116116	1	Bracket	"
13	T14050	1	Clamp	"
14	14M7298	1	Flange Nut, M8	"
15	RE19799	1	Clamp	"
16	19M7300	1	Capscrew, M6 x 10	"
17	51M7040	1	O-ring	"
18	RE60029	1	Fitting	"
19	14M7273	3	Nut, M8	"
20	R116386	3	Stud	"
21	26H10	1	Shaft Key	"
22		1	Fuel Injection Pump (See Application Chart page 4-12)	"
23	R132267	1	Gear	"
24	R132874	1	Washer	"
25	R91360	1	Nut, M14	"
26	R63604	1	Fitting (replaces RE60028)	"
27	T27860	3	Washer	"
28	12M7065	3	Lock Washer	"
29	R502076	1	O-ring (replaces R89944)	"
30	R51936	9	Tube Seal	"

# Fuel Injection System NL445D1

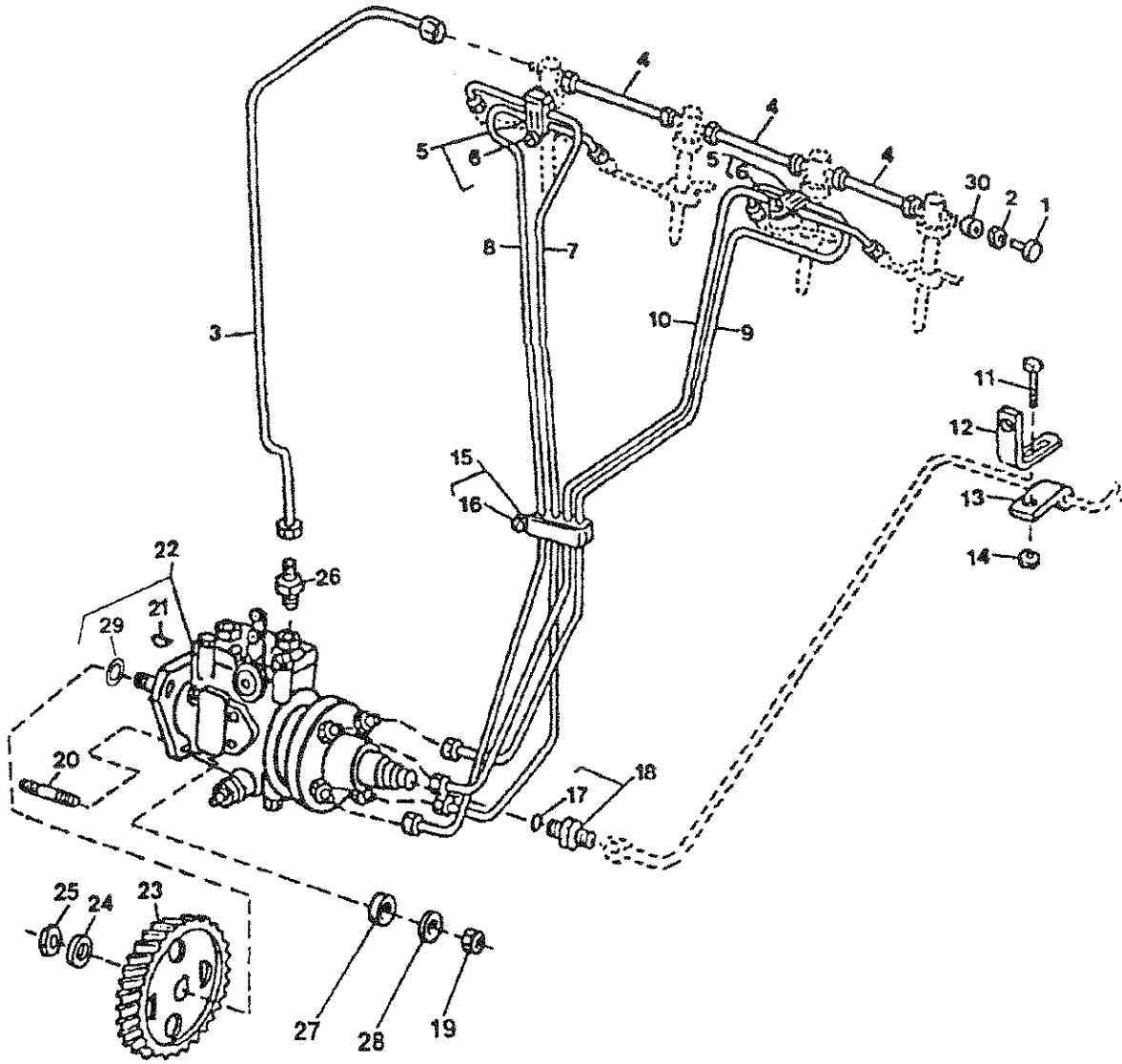




## Fuel Injection System NL445D1

KEY	PART NUMBER	QTY	DESCRIPTION	JOHN DEERE S/ N
1	R123593	8	Nut	From 717812 -
2	AR85519	2	Plug	"
3	RE68748	2	Tube Assembly (includes keys 1 & 24)	"
4	RE70848	1	Tube Assembly (includes keys 1 & 24)	"
5	RE19797	2	Clamp	"
6	19M7923	2	Capscrew, M6 x 12	"
7	RE59447	1	Fuel Line, No. 1	"
8	RE59448	1	Fuel Line, No. 2	"
9	RE59449	1	Fuel Line, No. 3	"
10	RE59450	1	Fuel Line, No. 4	"
11	RE19799	1	Clamp	"
12	19M7923	1	Capscrew, M6 x 12	"
13	51M7040	1	O-ring	"
14	RE60029	1	Fitting	"
15	14M7273	3	Nut, M8	"
16		1	Fuel Injection Pump (See Application Chart on page 4-12)	"
17	R132267	1	Gear	"
18	R132874	1	Washer	"
19	R91360	1	Nut, M14	"
20	R67364	1	Elbow Fitting	"
21	12M7065	3	Lock Washer	"
22	T27860	3	Washer	"
23	R502076	1	O-ring (replaces R89944)	"
	T16318	1	O-ring	"
24	R51936	9	Tube Seal	"

Fuel Injection System NL445T1 & T2



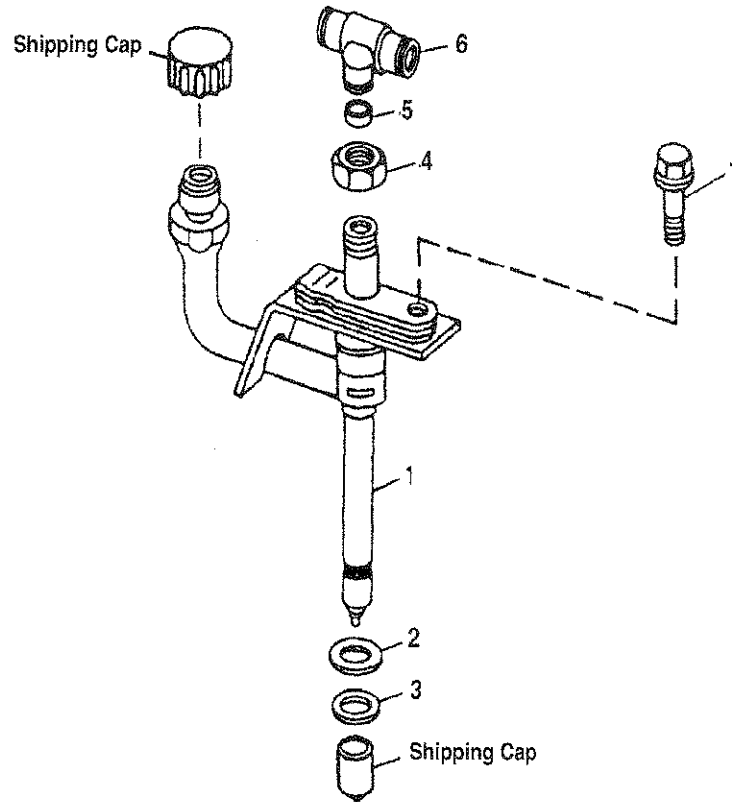
## Fuel Injection System NL445T1 &amp; T2

KEY	PART NUMBER	QTY	DESCRIPTION	JOHN DEERE S/N
1	AR85519	1	Plug	-
2	R123593	8	Nut (replaces R51937)	-
3	RE60027	1	Tube Assembly (includes keys 2 & 30)	-
4	RE68748	3	Tube Assembly (includes keys 2 & 30)	-
5	RE19797	2	Clamp	-
6	19M7300	2	Capscrew, M6 x 10	-
7	RE59447	1	Fuel Line, No. 1	-
8	RE59448	1	Fuel Line, No. 2	-
9	RE59449	1	Fuel Line, No. 3	-
10	RE59450	1	Fuel Line, No. 4	-
11	19M7865	1	Screw, M8 x 16, No. 2	-
12	R116116	1	Bracket	-
13	T14050	1	Clamp	-
14	14M7298	1	Flange Nut, M8	-
15	RE19799	1	Clamp	-
16	19M7300	1	Capscrew, M6 x 10	-
17	51M7040	1	O-ring	-
18	RE60029	1	Fitting	-
19	14M7273	3	Nut, M8	-
20	R116386	3	Stud	-
21	26H10	1	Shaft Key	-
22		1	Fuel Injection Pump (See Application Chart on page 4-12)	-
23	R132267	1	Gear	-
24	R132874	1	Washer (replaces R48600)	-
25	R91360	1	Nut, M14	-
26	R63604	1	Fitting (replaces RE60028)	-
27	T27860	3	Washer	-
28	12M7065	3	Lock Washer	-
29	R502076	1	O-ring (replaces R89944)	-
30	R51936	9	Tube Seal	-

## Injection Pump Applications

PART NUMBER	DESCRIPTION
	Marine & Industrial Generator Units - Energize-to-run
	<b>MP445D &amp; NL445D1</b>
RE506132	1800 RPM 12 Volt (replaces RE67558 & RE505070)
RE506131	1800 RPM 24 Volt (replaces RE67561)
26-59401	1500 RPM 12 Volt
26-59402	1500 RPM 24 Volt
	<b>MP445T &amp; NL445T1</b>
RE67562	1800 RPM 12 Volt
RE67563	1800 RPM 24 Volt
26-59403	1500 RPM 12 Volt
26-59404	1500 RPM 24 Volt
	<b>MP445H &amp; NL445T2</b>
RE67564	1800 RPM 12 Volt
RE67566	1800 RPM 24 Volt
26-59406	1500 RPM 12 Volt
26-59407	1500 RPM 24 Volt
	Propulsion Units - Energize-to-stop
	<b>LP445D</b>
RE502711XD	12 Volt Standard Ground
RE502715XD	24 Volt Standard Ground
	<b>LP445T</b>
RE64133XD	12 Volt Standard Ground
	Note: Basic injection pump part numbers are listed above. Alaska Diesel Electric also provides special accessories. Injection pump part numbers may show suffix letters indicating an optional configuration. Please order replacement pumps using complete part number on data plate.  Example: RE67564XB - Pump has been configured to isolated ground solenoid and includes lever for use with governor actuator.  Propulsion Unit LP445T with screw-in fuel solenoid may not have suffix letters after basic part number - do not order from John Deere without installing correct fuel solenoid (ADE # 22-59601).

**Fuel Injector**

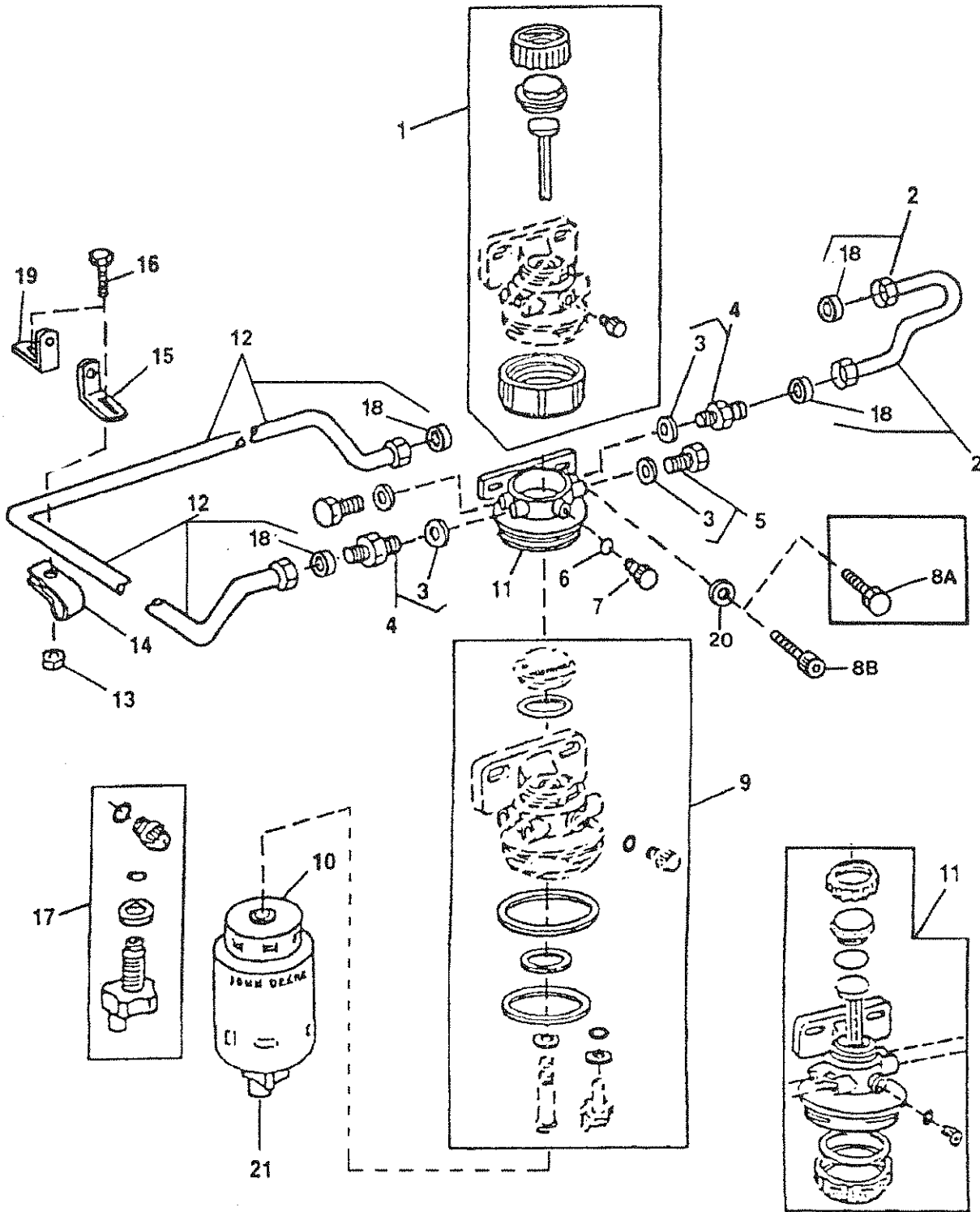


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RGP6035

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

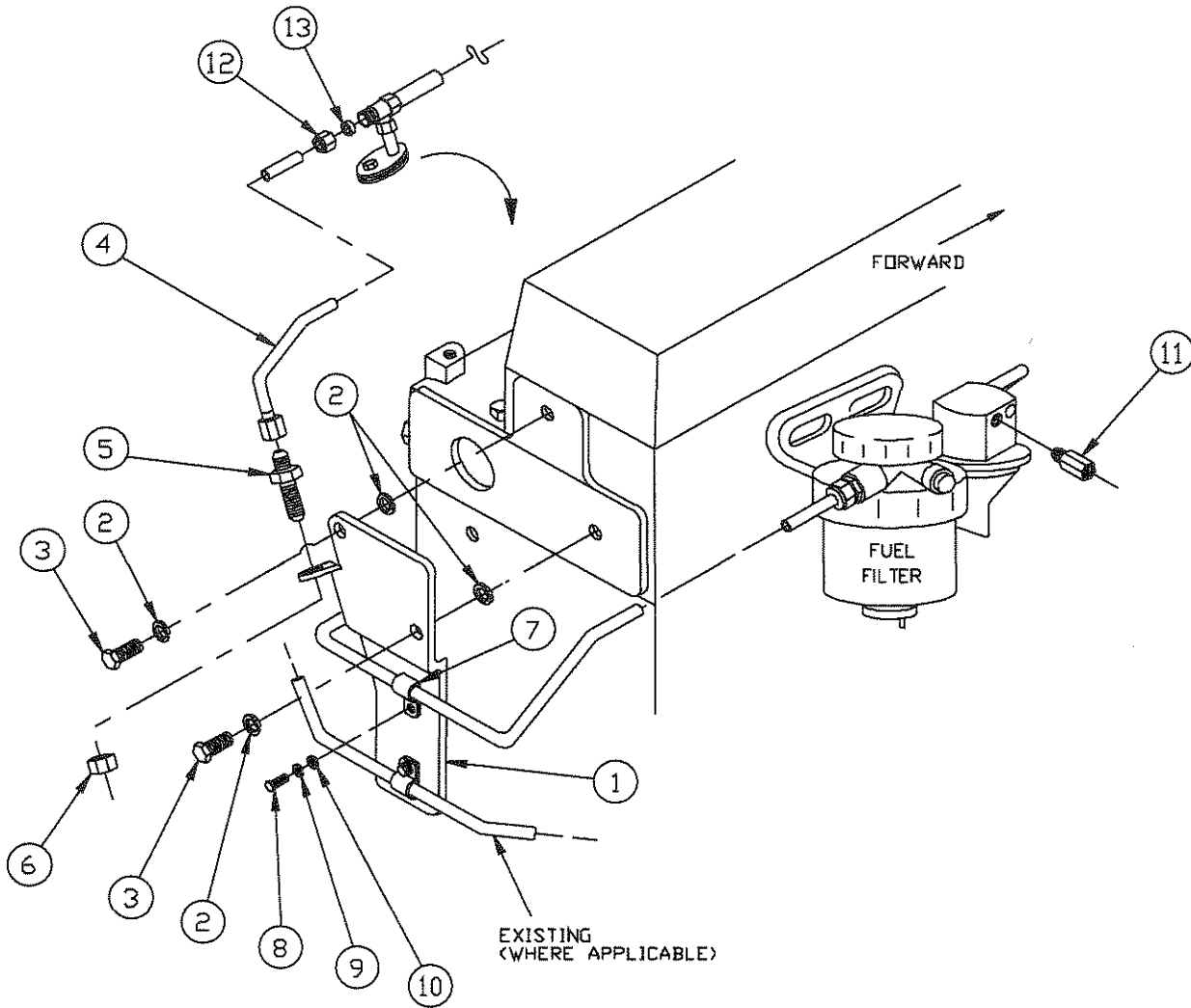
Fuel Filter and Fuel Lines



## Fuel Filter and Fuel Lines

KEY	PART NUMBER	QTY	DESCRIPTION	John Deere S/N
1	RE51649	1	Seal Kit	-
2	RE60037	1	Tube Assembly (includes key #18)	-
3	51M7040	1	O-ring	-
4	RE60029	2	Fitting	from 706489 -
5	RE46686	1	Plug, M12 x 1.5	from 706489 -
6	16-59501	1	O-ring	-
7	21-59505	1	Vent Plug Assembly (includes key #6)	-
8A	19M7785	2	Capscrew, M10 x 25	up to - 795805
8B	19M8328	2	Capscrew, M10 x 25	from 795806 -
9	RE50752	1	Seal Kit	-
10	24-51003	1	Fuel Filter without Drain Valve	-
	24-51004	1	Fuel Filter with Plastic Drain Valve (NL445 only)	-
	24-51005	1	Fuel Filter with Metal Drain Valve (can use on all applications)	-
11	RE70358	1	Filter Head Assembly (with metric ports)	from 706489 -
	RE63181	1	Filter Head Assembly (with SAE ports - replaced by RE70358 and 2 ea. RE60029 and 51M7040)	up to - 706488
12	RE60006	1	Tube Assembly ( LP445T only, includes key #18)	-
	RE60025	1	Tube Assembly (includes key #18)	-
13	14M7298	1	Flange Nut, M8	-
14	T14050	1	Clamp	-
15	R116116	1	Bracket	-
16	19M7865	1	Screw, M8 x 16	-
17	RE60854	1	Valve and Vent Kit (Industrial Units Only)	-
18	R74012	4	Sealing Washer	-
19	R56588	1	Strap	-
20	24M7096	2	Washer	from 795806 -
21	24-51006	1	Drain Valve, Metal	-
	24-51002	1	Drain Valve, Plastic (Industrial Units Only)	-

**Fuel Supply & Return Connections**

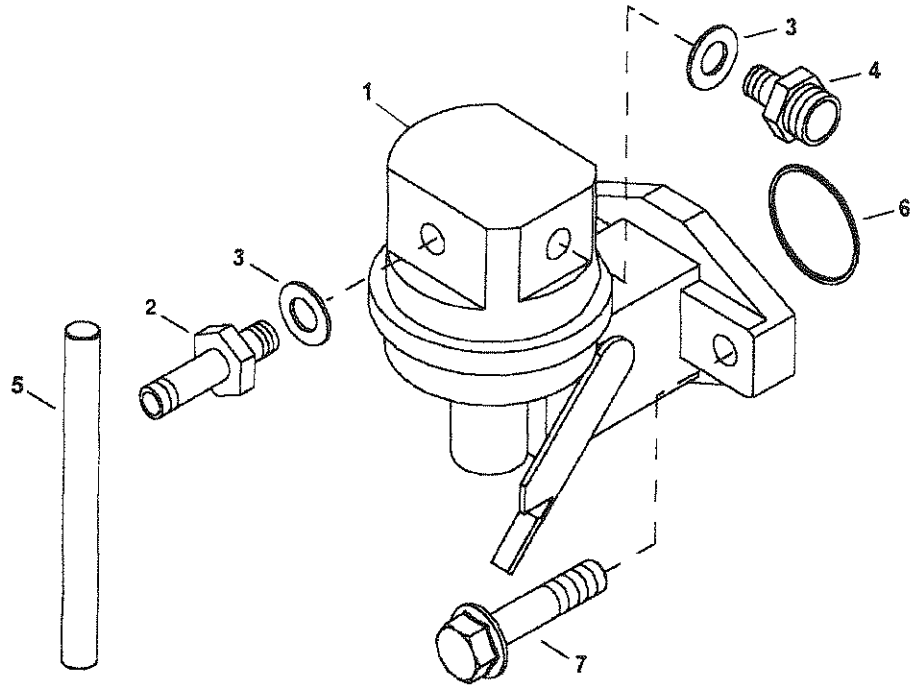


A-8507/ C-4210

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



**Fuel Transfer Pump**

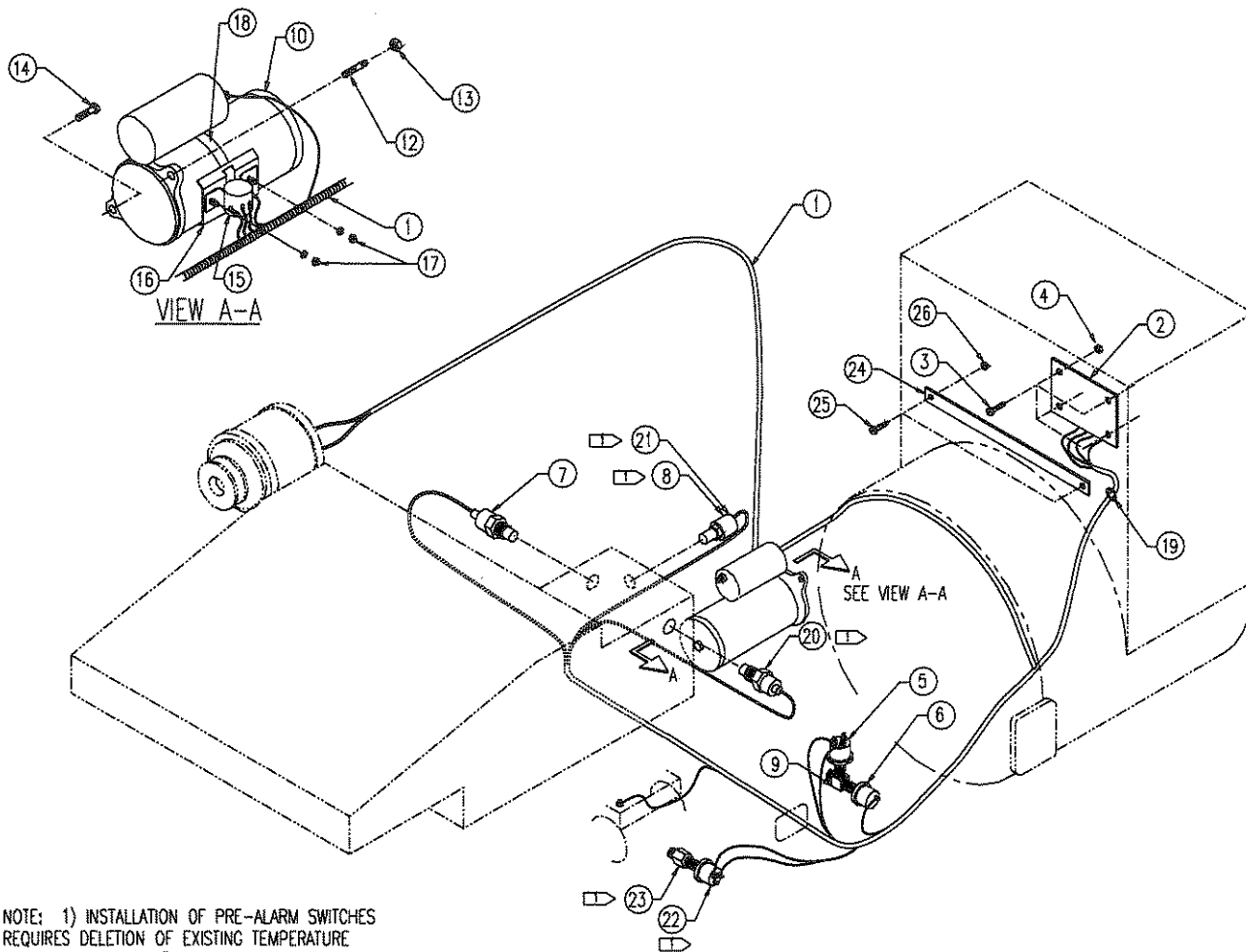


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RGP6186

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

Electrical System 12V Standard Ground MP445



NOTE: 1) INSTALLATION OF PRE-ALARM SWITCHES  
REQUIRES DELETION OF EXISTING TEMPERATURE  
SHUT-DOWN SWITCH #8. INSTALL NEW TEMPERATURE  
SWITCH #20, TEMPERATURE PRE-ALARM SWITCH #21  
& PRESSURE PRE-ALARM SWITCH #22(+ ADAPTER #23)  
AS SHOWN.

A-8363/ C-4471

### Electrical System 12V Standard Ground MP445

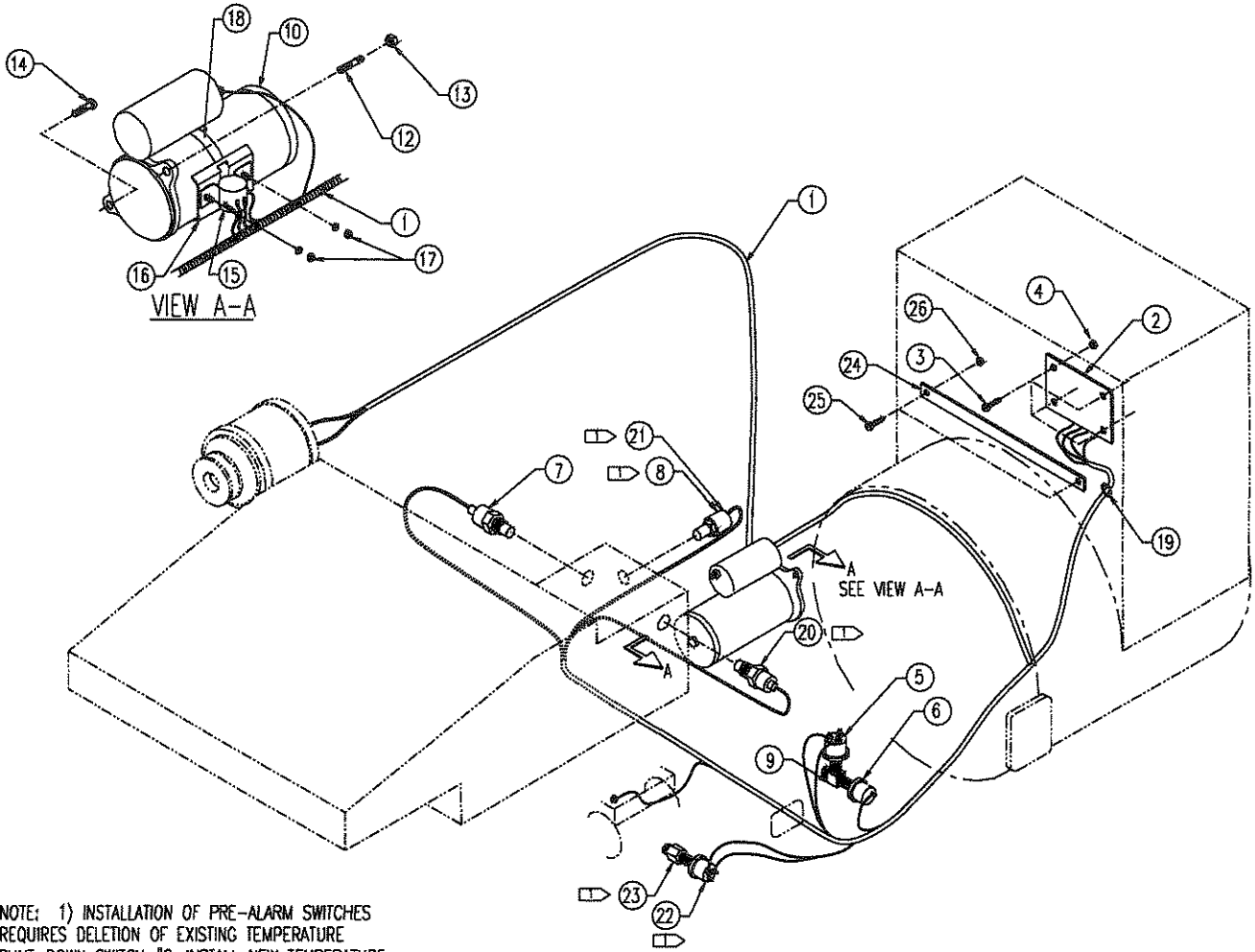
KEY	PART NUMBER	QTY	DESCRIPTION	Serial #
1	22-49401	1	Engine Wire Harness, (Standard Ground)	-
2	22-70083	1	Relay Board Assembly, 12 volt (see Parts Detail)	-
	22-70086	1	Relay Board Assembly, 12 volt (Autostart units - see Parts Detail)	-
3	12-00001	4	Machine Screw, BH Slotted #10-32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Pressure Switch, 15 PSI, 1/8 NPT	-
6	22-41016	1	Pressure Sender, 0-80 PSI, (Standard Ground 1/8 NPT, Single Station)	-
	22-71016	1	Pressure Sender, 0-80 PSI, (Standard Ground 1/8 NPT, Dual Station)	-
7	22-41026	1	Temperature Sender, 250°F, (Standard Ground 1/2 NPT, Single Station)	-
	22-71026	1	Temperature Sender 250°F, (Standard Ground 1/4 NPT, Single Station)	-
8	22-40907	1	Temperature Switch, 205°F, (3/8 NPT, replaced by #20 when equipped with pre-alarm option)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	RE502214	1	Starter, 12V Standard Ground	-
12	13-05001	1	Stud, M10 x 1.5 x 25 mm	-
13	14-80811	1	Hex Nut, Flanged, M10 x 1.5	-
14	12-80832	1	Cap Screw, Hex Head, Flanged, M10 x 1.5 x 30 mm	-
15	22-41080	1	Solenoid, 12V DC 65 amp, N.O. Isolated Ground	-
16	23-40009	1	Bracket, Solenoid Mounting	-
17	14-00112	2	Hex Nut, Nylock, 1/4-20	-
18	19-00060	1	Hose Clamp #60	-
19	00-40028	1	Grommet	-
20	22-40904	1	Temperature Switch, 205°F (with Pre-alarm option, formerly #22-40902)	-
21	22-40910	1	Temperature Switch, 195°F (with Pre-alarm option)	-
22	22-40901	1	Pressure Switch, 25 PSI (with Pre-alarm option)	-
23	21-00023	1	Adapter 1/8 NPT (with Pre-alarm option)	-
24	22-41077	1	Terminal Strip (with Pre-alarm option)	-
25	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT (for #7 22-71026)	-
<p>Note: Solenoid Part # RE503633 for Starter RE502214</p>				



### Electrical System 12V Isolated Ground MP445

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49404	1	Engine Wire Harness, Isolated Ground	-
2	22-70083	1	Relay Board Assembly, 12 Volt (see Parts Detail)	-
	22-70086	1	Relay Board Assembly, 12 Volt (Autostart units - see Parts Detail)	-
3	12-00001	4	Machine Screw, BH Slotted #10 -32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10 -32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-42803	1	Pressure Sender, 0-80 PSI (Isolated Ground 1/8 NPT Single Station)	-
	22-74803	1	Pressure Sender, 0-80 PSI (Isolated Ground 1/8 NPT Dual Station)	-
7	22-42802	1	Temperature Sender, 250°F (Isolated Ground 1/2 NPT Single Station)	-
	22-74802	1	Temperature Sender, 250°F (Isolated Ground 1/4 NPT Dual Station)	-
8	22-40907	1	Temperature Switch, 205°F 3/8 NPT (replaced by #20 when equipped with pre-alarm option)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	22-41078	1	Starter, 12V Isolated Ground	-
12	13-05001	1	Stud, M10 x 1.5 x 25 mm	-
13	14-80811	1	Hex Nut, Flanged M10 x 1.5	-
14	12-80832	1	Cap Screw, Hex Head Flanged M10 x 1.5 x 30 mm	-
15	22-41080	1	Solenoid, 12V 65 amp, N.O. Isolated Ground	-
16	23-40009	1	Solenoid Mounting Bracket	-
17	14-00112	2	Hex Nut, Nylock 1/4-20	-
18	19-00060	1	Hose Clamp #60	-
19	00-40028	1	Grommet	-
20	22-40904	1	Temperature Switch, 205°F (with Pre-alarm option, formerly #22-40902)	-
21	22-40910	1	Temperature Switch, 195°F (with Pre-alarm option)	-
23	21-00023	1	Adapter 1/8 NPT (with Pre-alarm option)	-
24	22-41077	1	Terminal Strip (with Pre-alarm option)	-
25	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT (for #7 22-74802)	-

**Electrical System 24V Standard Ground MP445**



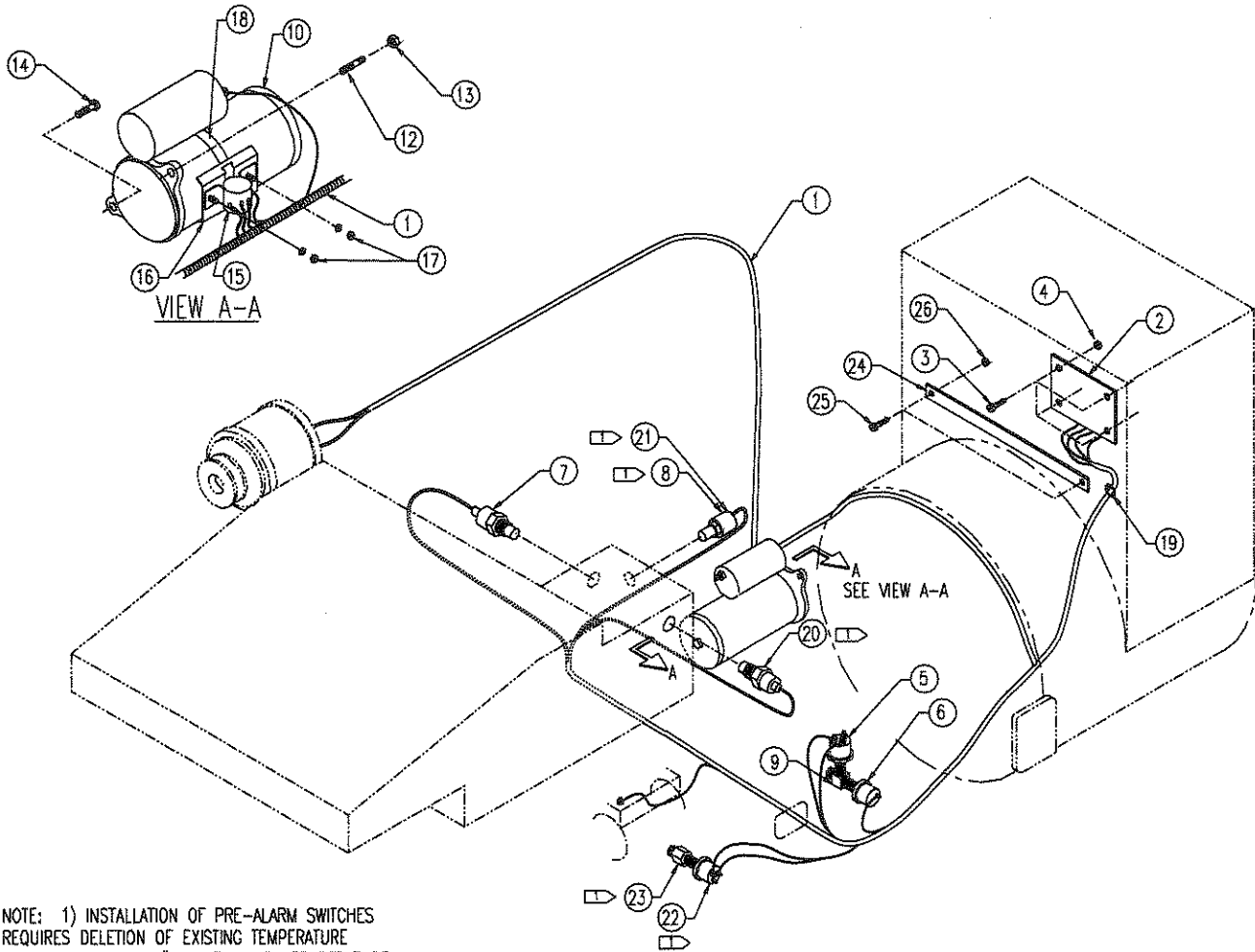
NOTE: 1) INSTALLATION OF PRE-ALARM SWITCHES  
REQUIRES DELETION OF EXISTING TEMPERATURE  
SHUT-DOWN SWITCH #8. INSTALL NEW TEMPERATURE  
SWITCH #20, TEMPERATURE PRE-ALARM SWITCH #21  
& PRESSURE PRE-ALARM SWITCH #22(+ ADAPTER #23)  
AS SHOWN.

A-8525/ C-4471

### Electrical System 24V Standard Ground MP445

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49401	1	Engine Wire Harness, Standard Ground	-
2	22-70084	1	Relay Board Assembly, 24 Volt (see Parts Detail)	-
	22-70087	1	Relay Board Assembly, 24 Volt (Autostart units - see Parts Detail)	-
3	12-00001	4	Machine Screw, BH Slotted #10-32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10-32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-41016	1	Pressure Sender, 0-80 PSI (Standard Ground, 1/8 NPT Single Station)	-
	22-71016	1	Pressure Sender, 0-80 PSI (Standard Ground, 1/8 NPT Dual Station)	-
7	22-41026	1	Temperature Sender, 250°F (Standard Ground, 1/2 NPT Single Station)	-
	22-71026	1	Temperature Sender, 250°F (Standard Ground, 1/4 NPT Single Station)	-
8	22-40907	1	Temperature Switch, 205°F (3/8 NPT replaced by #20 when equipped with pre-alarm option)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	22-41414	1	Starter, 24V Isolated Ground	-
12	13-05001	1	Stud, M10 x 1.5 x 25 mm	-
13	14-80811	1	Hex Nut, Flanged M10 x 1.5	-
14	12-80832	1	Capscrew, Hex Head Flanged M10 x 1.5 x 30 mm	-
15	22-41079	1	Solenoid, 24V DC 65 amp N.O. Isolated Ground	-
16	23-40009	1	Solenoid Mounting Bracket	-
17	14-00112	2	Hex Nut, Nylock 1/4-20	-
18	19-00060	1	Hose Clamp #60	-
19	00-40028	1	Grommet, 7/8" I.D. x 1-3/8" O.D. 5/64" G.W.	-
20	22-40904	1	Temperature Switch, 205°F (with Pre-alarm option, formerly #22-40902)	-
21	22-40910	1	Temperature Switch, 195°F (with Pre-alarm option)	-
22	22-40901	1	Pressure Switch, 25 PSI (with Pre-alarm option)	-
23	21-00023	1	Adapter 1/8 NPT (with Pre-alarm option)	-
24	22-41077	1	Terminal Strip (with Pre-alarm option)	-
25	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT (for #7 22-71026)	-

Electrical System 24V Isolated Ground MP445



NOTE: 1) INSTALLATION OF PRE-ALARM SWITCHES  
REQUIRES DELETION OF EXISTING TEMPERATURE  
SHUT-DOWN SWITCH #8. INSTALL NEW TEMPERATURE  
SWITCH #20, TEMPERATURE PRE-ALARM SWITCH #21  
& PRESSURE PRE-ALARM SWITCH #22(+ ADAPTER #23)  
AS SHOWN.

A-8526/ C-4471

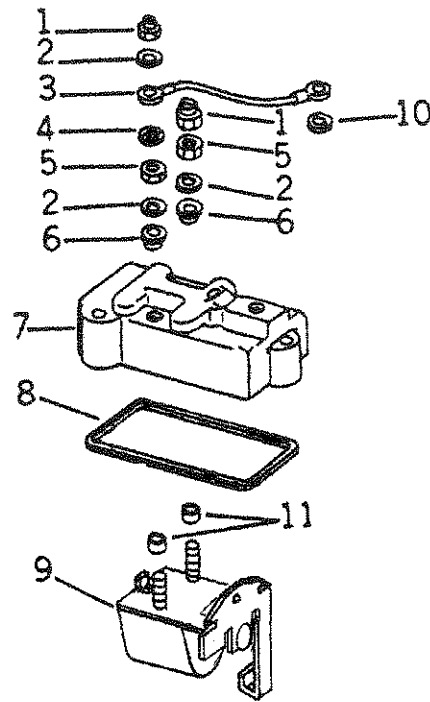


### Electrical System 24V Isolated Ground MP445

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-49404	1	Engine Wire Harness, Isolated Ground	-
2	22-70084	1	Relay Board Assembly, 24 Volt (see Parts Detail)	-
	22-70087	1	Relay Board Assembly, 24 Volt (Autostart units - see Parts Detail)	-
3	12-00001	4	Machine Screw, BH Slotted #10 -32 x 3/4" S/S	-
4	14-00006	4	Hex Nut, Nylock #10 -32	-
5	22-40915	1	Pressure Switch, 15 PSI 1/8 NPT	-
6	22-42803	1	Pressure Sender, 0-80 PSI (Isolated Ground 1/8 NPT Single Station)	-
	22-74803	1	Pressure Sender, 0-80 PSI (Isolated Ground 1/8 NPT Dual Station)	-
7	22-42802	1	Temperature Sender, 250°F (Isolated Ground 1/2 NPT Single Station)	-
	22-74802	1	Temperature Sender, 250°F (Isolated Ground 1/4 NPT Dual Station)	-
8	22-40907	1	Temperature Switch, 205°F 3/8 NPT (replaced by #20 when equipped with pre-alarm option)	-
9	21-05400	1	Street Tee, Steel, 1/8 NPT	-
10	22-41414	1	Starter, 24V Isolated Ground	-
12	13-05001	1	Stud, M10 x 1.5 x 25 mm	-
13	14-80811	1	Hex Nut, Flanged M10 x 1.5	-
14	12-80832	1	Cap Screw, Hex Head Flanged M10 x 1.5 x 30 mm	-
15	22-41079	1	Solenoid, 24V DC 65 amp, N.O. Isolated Ground	-
16	23-40009	1	Solenoid Mounting Bracket	-
17	14-00112	2	Hex Nut, Nylock 1/4-20	-
18	19-00060	1	Hose Clamp #60	-
19	00-40028	1	Grommet, 7/8" I.D. x 1-3/8" O.D. 5/64" G.W.	-
20	22-40904	1	Temperature Switch, 205°F (formerly #22-40902)	-
21	22-40910	1	Temperature Switch, 195°F	-
22	22-40901	1	Oil Pressure Switch, 25 PSI, 1/8 NPT	-
23	21-05400	1	Street Tee, Steel, 1/8 NPT	-
24	22-41077	1	Terminal Strip, 10 Connection 600 VA	-
25	12-00005	2	Machine Screw, BH Slotted, #8-32 x 3/4"	-
26	14-00003	2	Hex Nut, Nylock #8-32	-
27	21-00135	1	Bushing, Brass 1/2 NPT x 1/4 NPT (for #7 22-74802)	-

**Stop Solenoid 12 & 24 Volt (Injection Pump Mounted)**

Stanadyne



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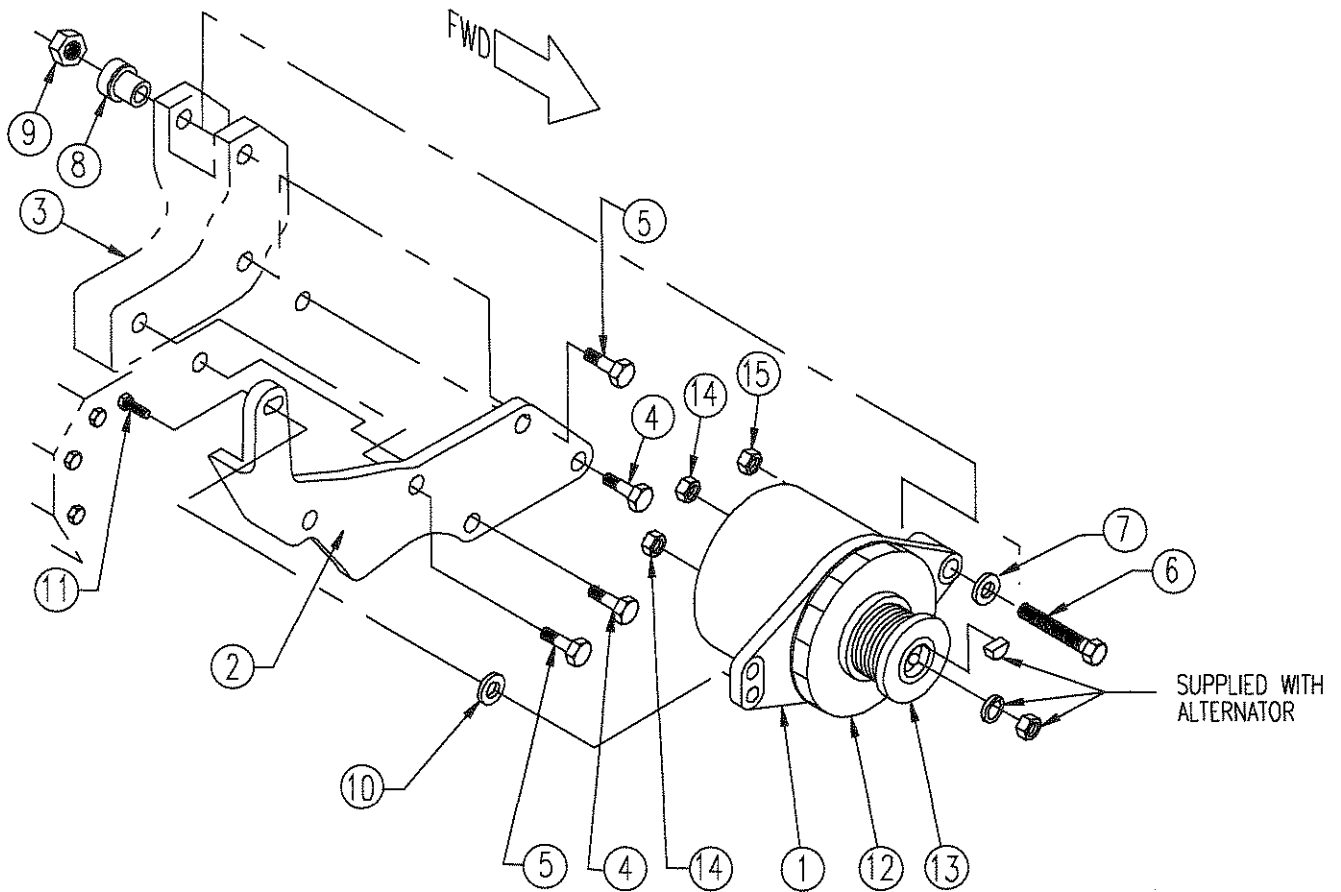
T20527

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

\*\*As required

**12 Volt 55 Amp Medium Frame Alternator & Mounting**

Marine Generator & Propulsion Units

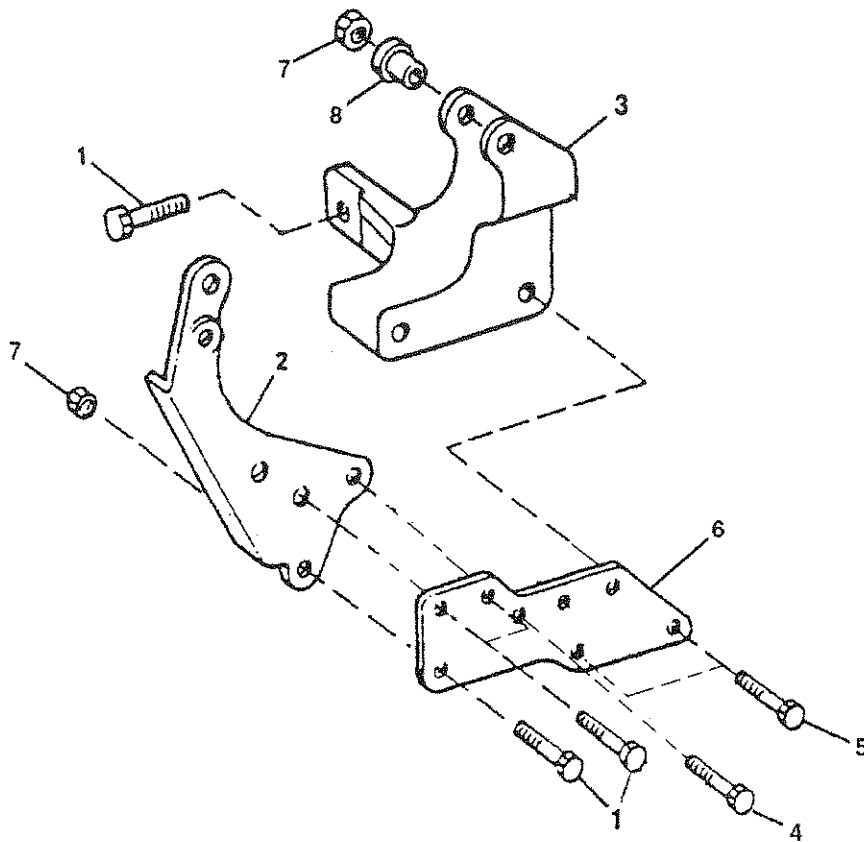


A-8530/ B-6406A

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	RE506196	1	Alternator, 12 Volt 55 amp, Standard Ground (formerly #RE501634)	-
2	23-49501	1	Bracket, Medium Frame Alternator Mounting	-
3	R132166	1	Bracket	-
4	19M7801	2	Capscrew, Hex Head, Flanged, M8 x 1.25 x 60 mm	-
5	19M7785	2	Capscrew, Hex Head, Flanged, M10 x 1.5 x 25 mm	-
6	19M7812	1	Capscrew, Hex Head, Flanged, M10 x 1.5 x 100 mm	-
7	R64525	1	Shim	-
8	R100377	1	Bushing	-
9	14-80811	1	Flange Nut	-
10	15-49501	**	Spacer	-
11	12-80753	1	Capscrew, Hex Head, Flanged, M8 x 1.25 x 30 mm	-
12	T158584	1	Fan	-
13	R501192	1	Pulley	-
14	14M7265	2	Lock Nut	-
15	14M7165	1	Lock Nut	-

## Medium Frame Alternator Mounting

Industrial Generator Units



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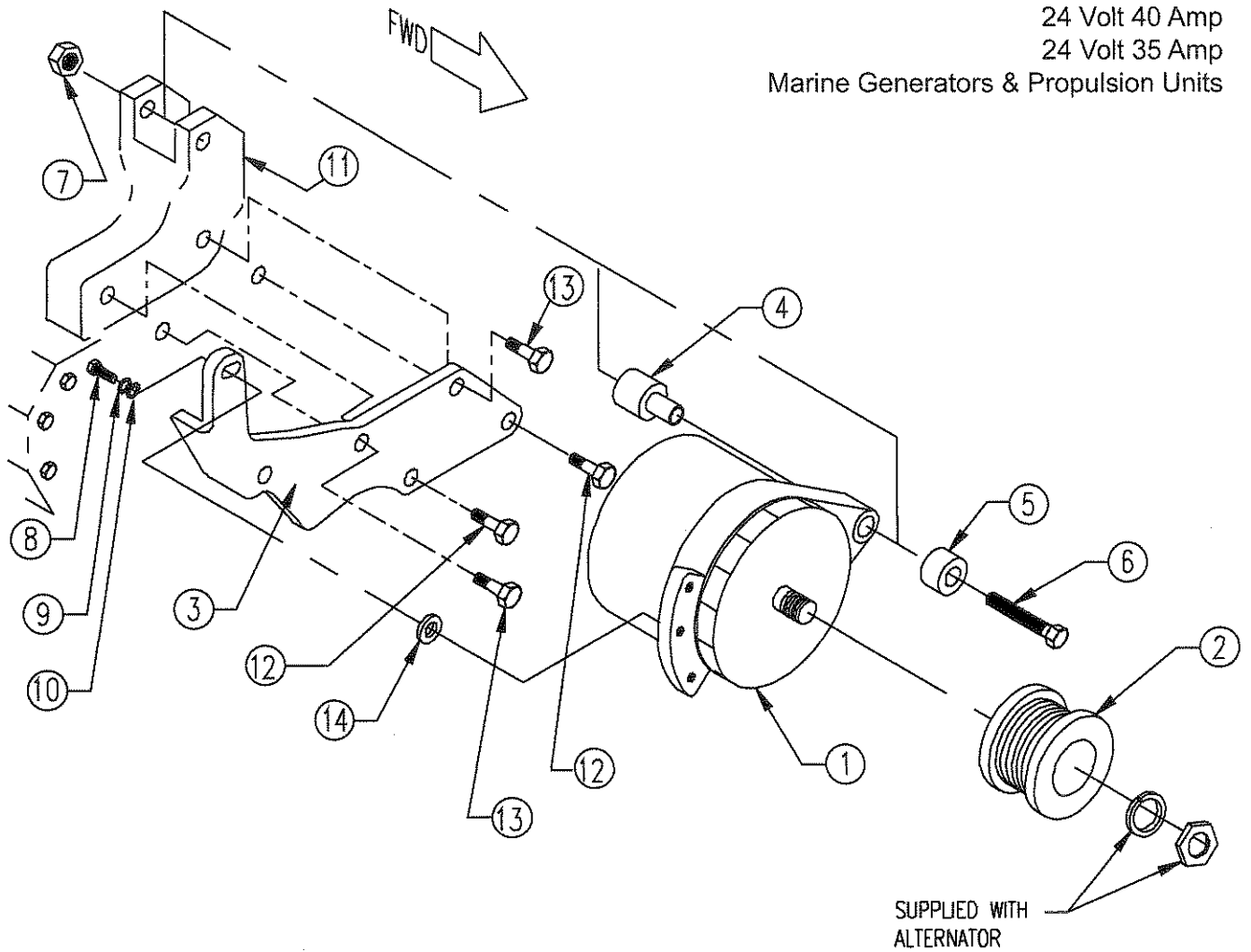
RGP6256

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

**Medium Frame Alternator & Mounting**

12 Volt 90 Amp  
 12 Volt 65 Amp  
 24 Volt 40 Amp  
 24 Volt 35 Amp

Marine Generators & Propulsion Units

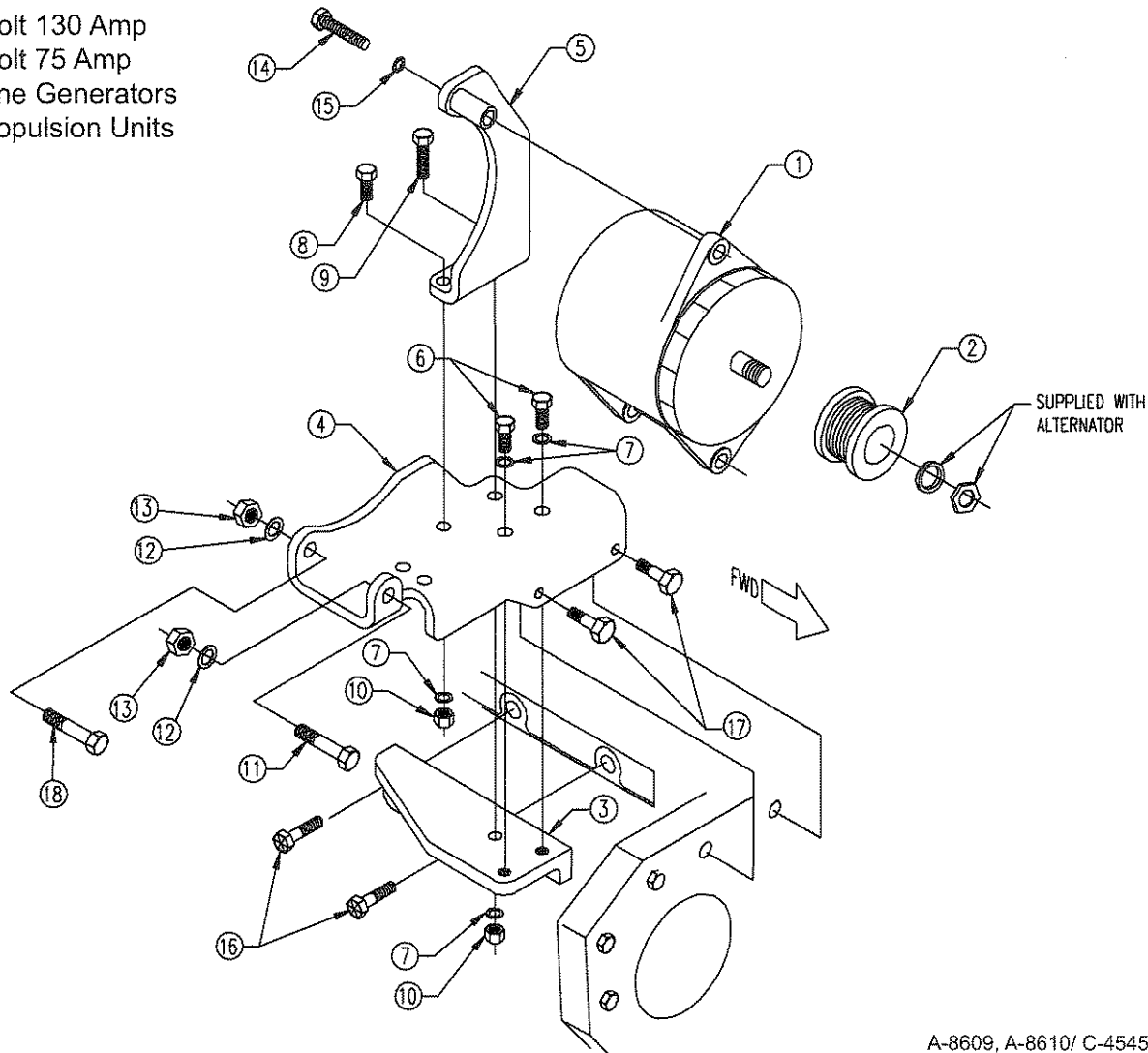


A-8531, A-8532, A-8533/ B-6405

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

## Large Frame Alternators & Mounting

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

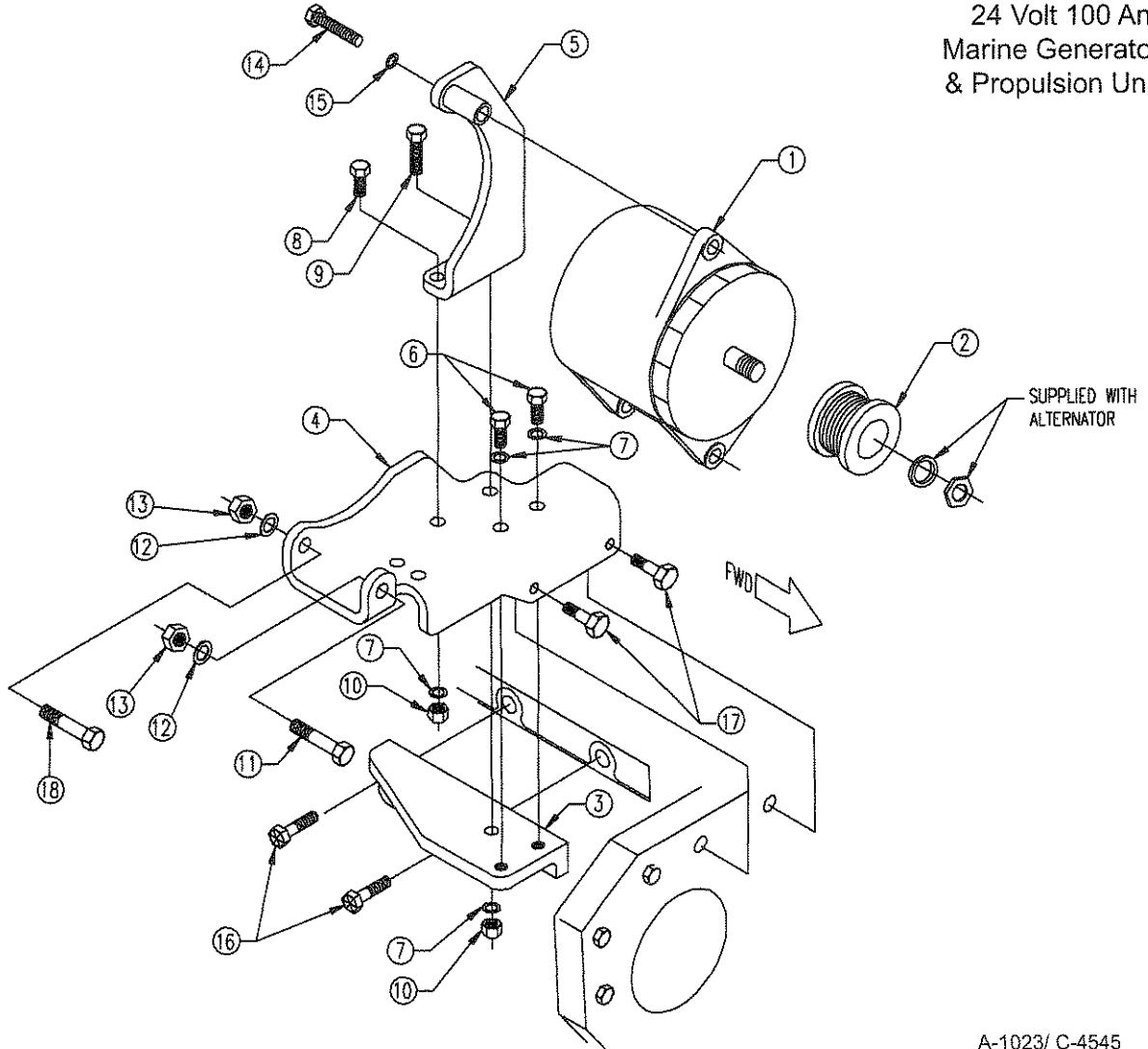


A-8609, A-8610/ C-4545

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

**Large Frame Alternator & Mounting**

24 Volt 100 Amp  
Marine Generators  
& Propulsion Units

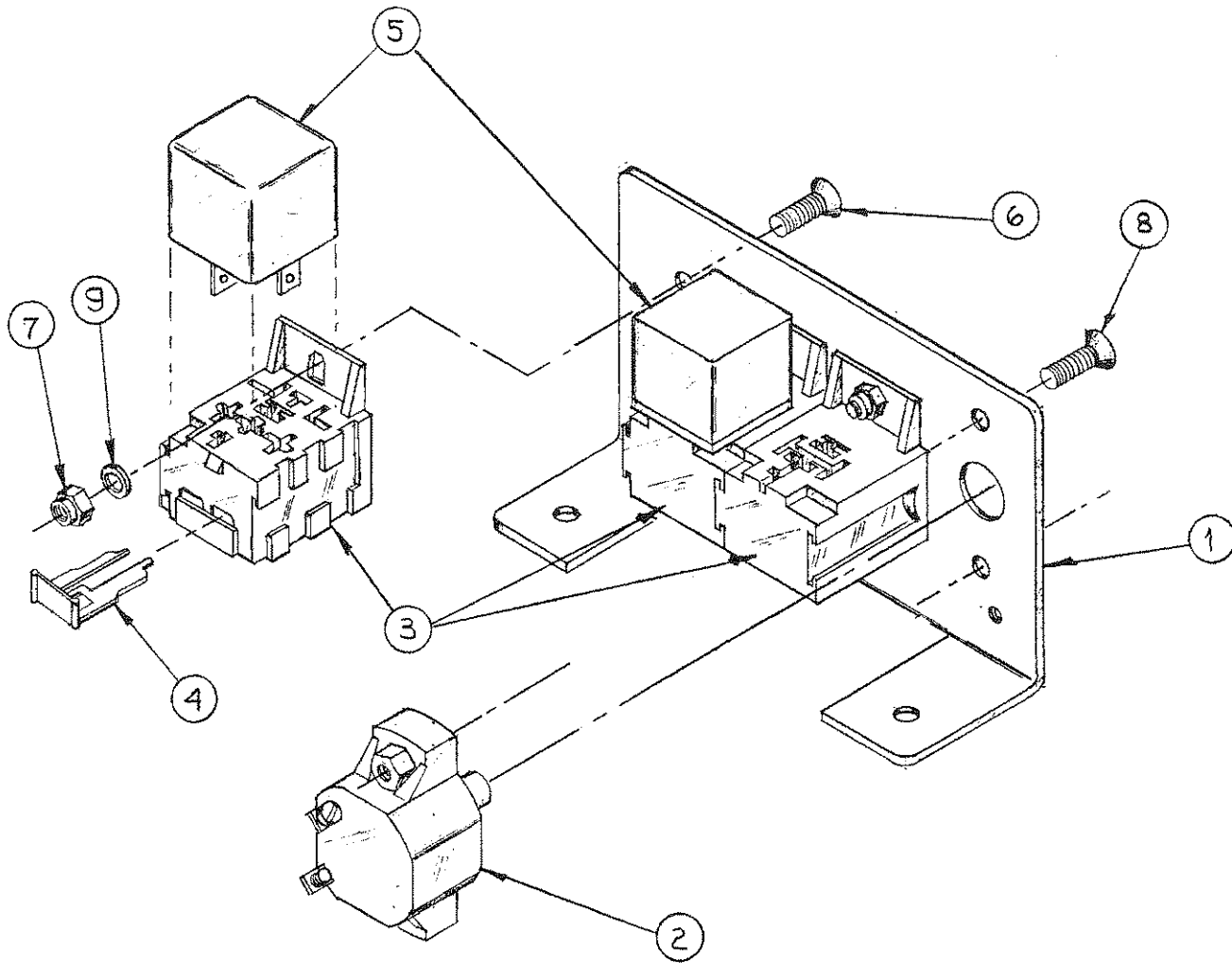


A-1023/ C-4545

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

### Harness Assembly with Circuit Breaker & Relay Panel

Propulsion Units

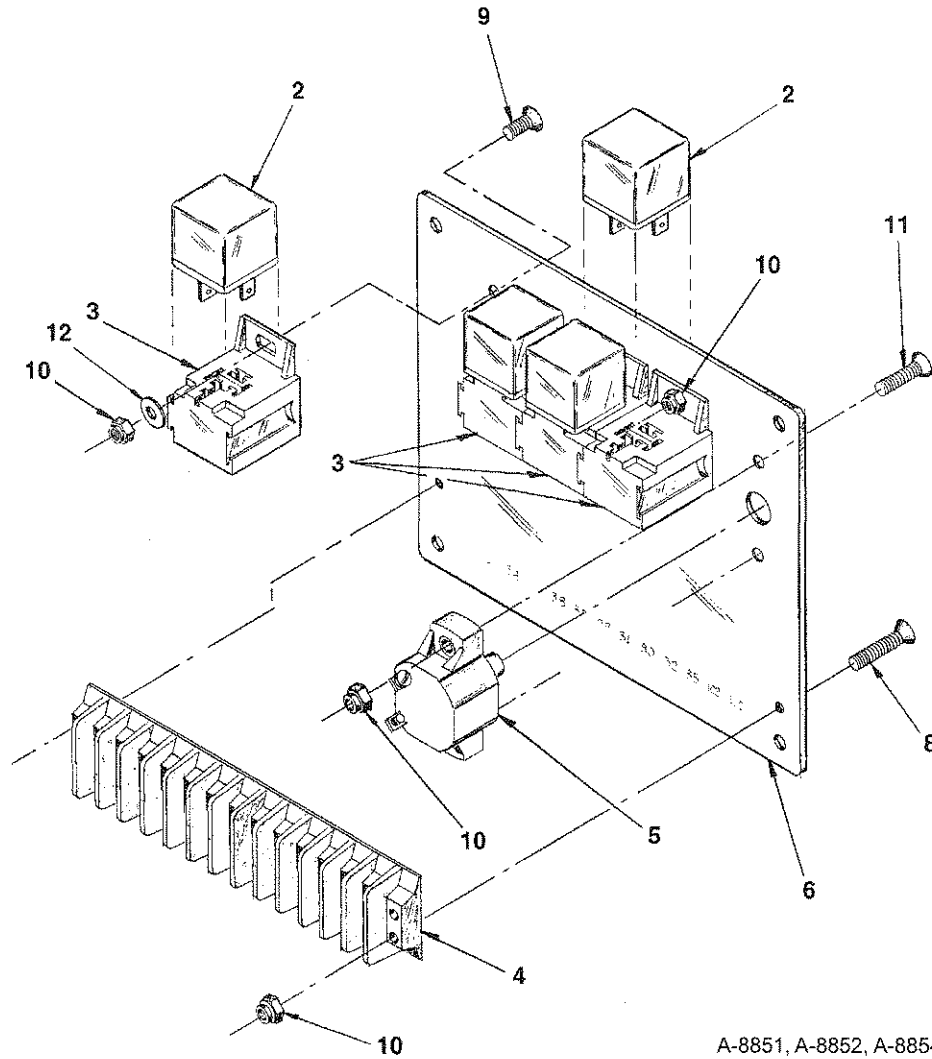


A-8804 / B-3139z

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-49402	1	Wire Harness Assembly with Relay Bases (w/o Relays)	-
1	23-40019	1	Bracket	-
2	22-41070	1	40 Amp Circuit Breaker	-
3	22-40391	2	Relay Base	-
4	22-40393	2	Terminal Retainer	-
5	22-42047	2	12 Volt Start Relay	-
	22-40085	2	24 Volt Start Relay	-
6	12-03010	2	Machine Screw, 10 -32 x 3/8", 100°	-
7	14-00001	4	Hex Nut, 10 -32	-
8	12-03011	2	Counter Machine Screw, 10 -32 x 3/4" 100° Flathead	-
9	15-00032	2	Flat Washer #10	-



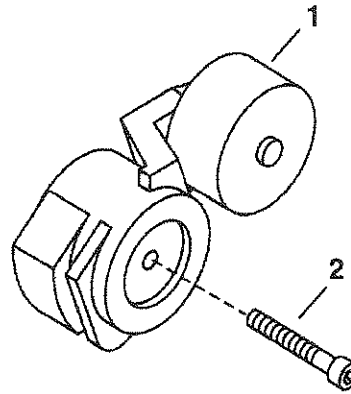
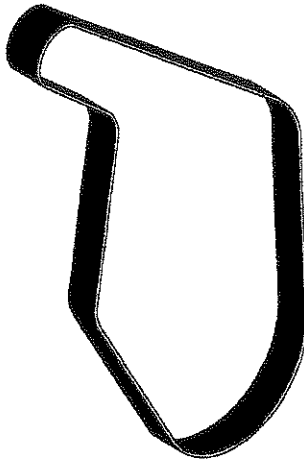
12 & 24 Volt Relay Logic Board



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

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

**Drive Belt Applications & Tensioner**

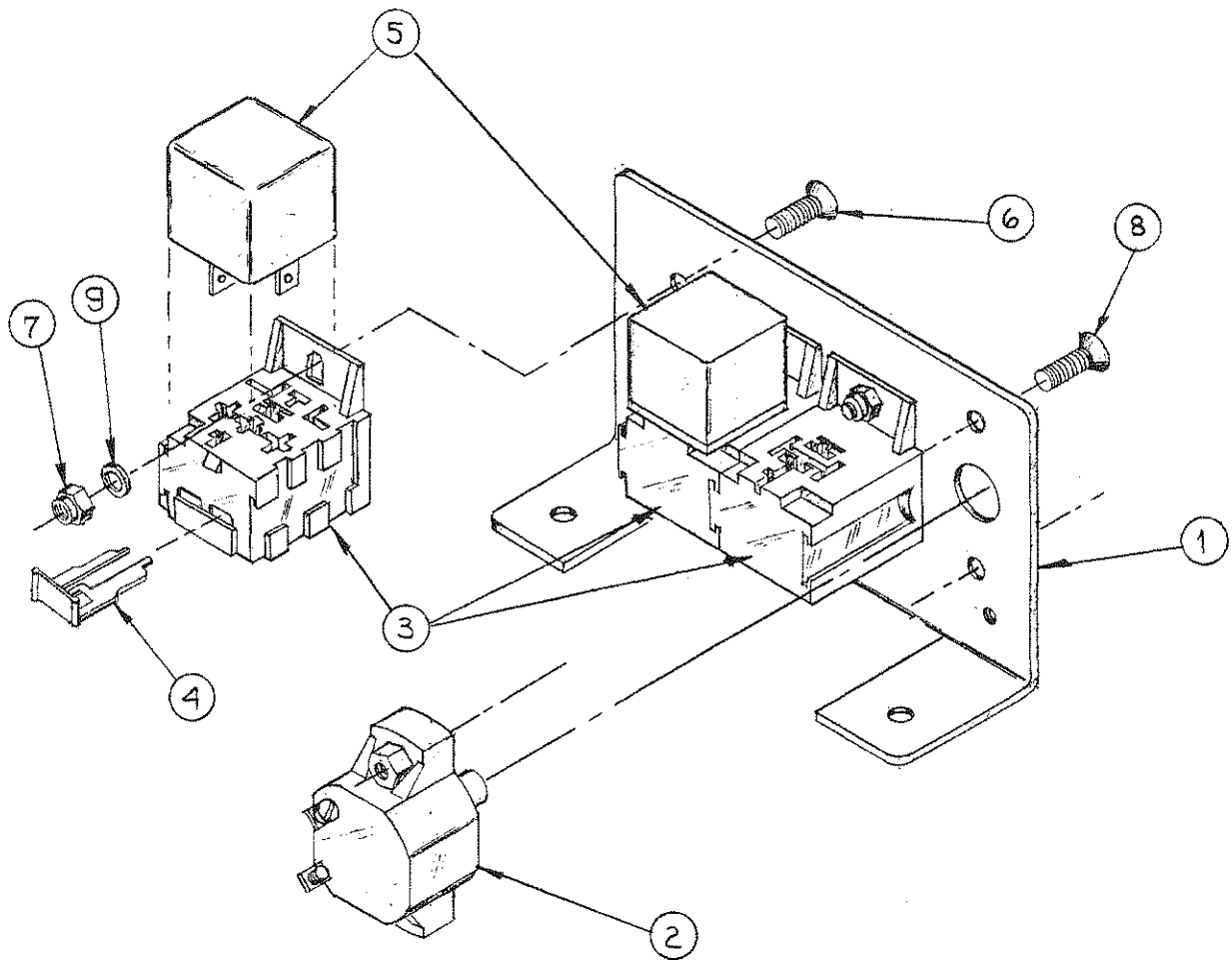


RGP6132 & 6280

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
			Standard Or Optional Medium Frame Size Alternators 12V/ 55A - 12V/ 90A - 24V/ 35A - 24V/ 40A:	
	R123439	1	Drive Belt, LP-MP445D (non-turbo)	-
	R123463	1	Drive Belt, NL445D1 (non-turbo)	-
	R123440	1	Drive Belt, LP-M445T-H (with turbo)	-
	R123462	1	Drive Belt, NL445T1-T2 (with turbo)	-
			Optional Large Frame Size Alternators - 12V/ 130A - 24V/ 75A:	
	R123461	1	Drive Belt, LP-MP445D (non-turbo)	-
	R123457	1	Drive Belt, LP-MP445T-H (with turbo)	-
			NOTE: ADE supplies an additional spare belt on units equipped with front power take-off.  Contact dealer or factory for belts on custom engineered accessories (unit serial number required).	
1	RE518097	1	Belt Tensioner Assembly (formerly #RE70536)	-
2	19M8131	1	Cap screw, Socket Head M10 x 1.5 x 70 mm (use with RE70536)	-
	19M7811	1	Cap screw, Flanged Head M10 x 1.5 x 90 mm (use with RE518097)	-

**Harness Assembly with Circuit Breaker & Relay Panel**

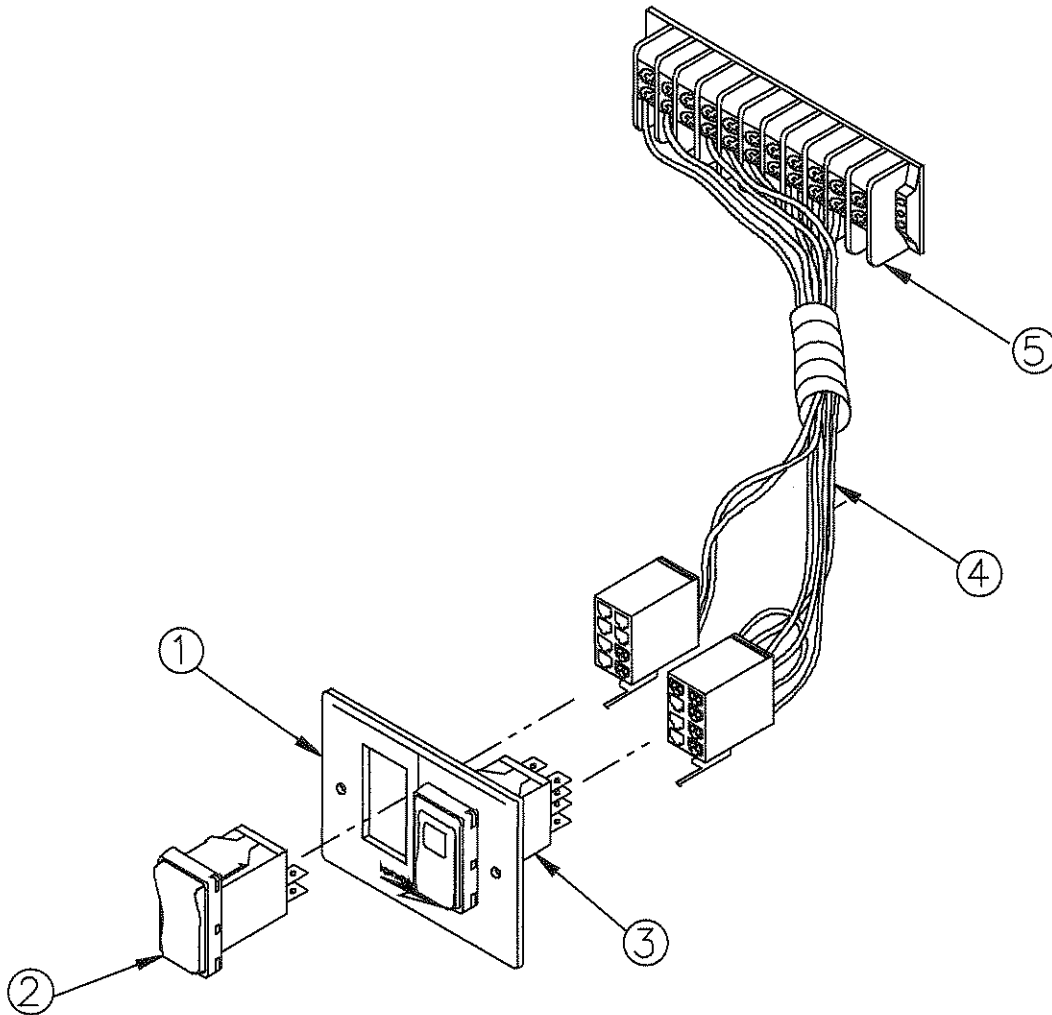
Propulsion Units



A-8804/ B-3139z

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-49402	1	Wire Harness Assembly with Relay Bases (w/o Relays)	-
1	23-40019	1	Bracket	-
2	22-41070	1	40 Amp Circuit Breaker	-
3	22-40391	2	Relay Base	-
4	22-40393	2	Terminal Retainer	-
5	22-42047	2	12 Volt Start Relay	-
	22-40085	2	24 Volt Start Relay	-
6	12-03010	2	Machine Screw, 10 -32 x 3/8", 100°	-
7	14-00001	4	Hex Nut, 10 -32	-
8	12-03011	2	Countersunk Machine Screw, 10 -32 x 3/4", 100° Flathead	-
9	15-00032	2	Flat Washer #10	-

**S-1 Control Panel 12 & 24 Volt**

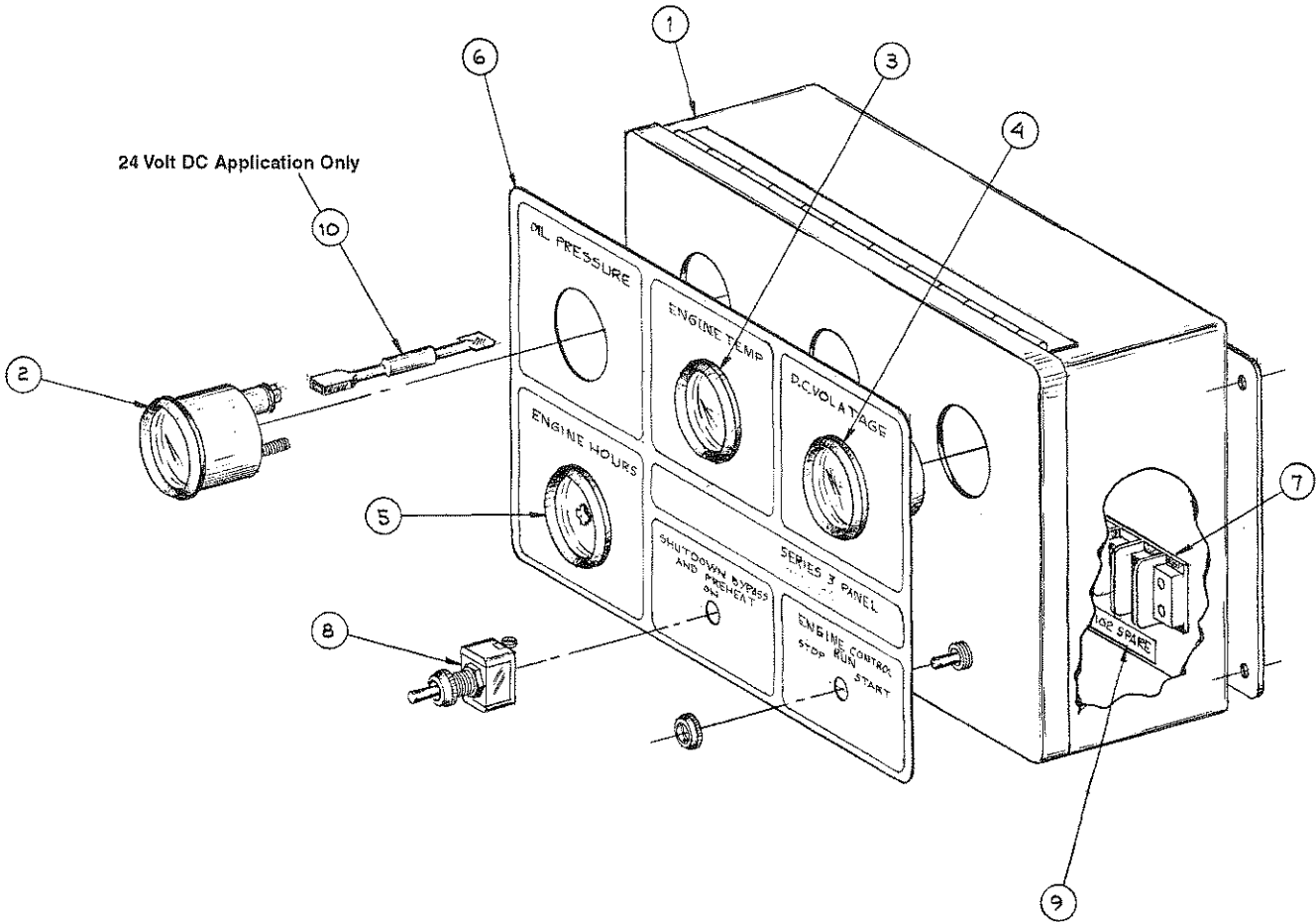


A-8555-6/ B-5970

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



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

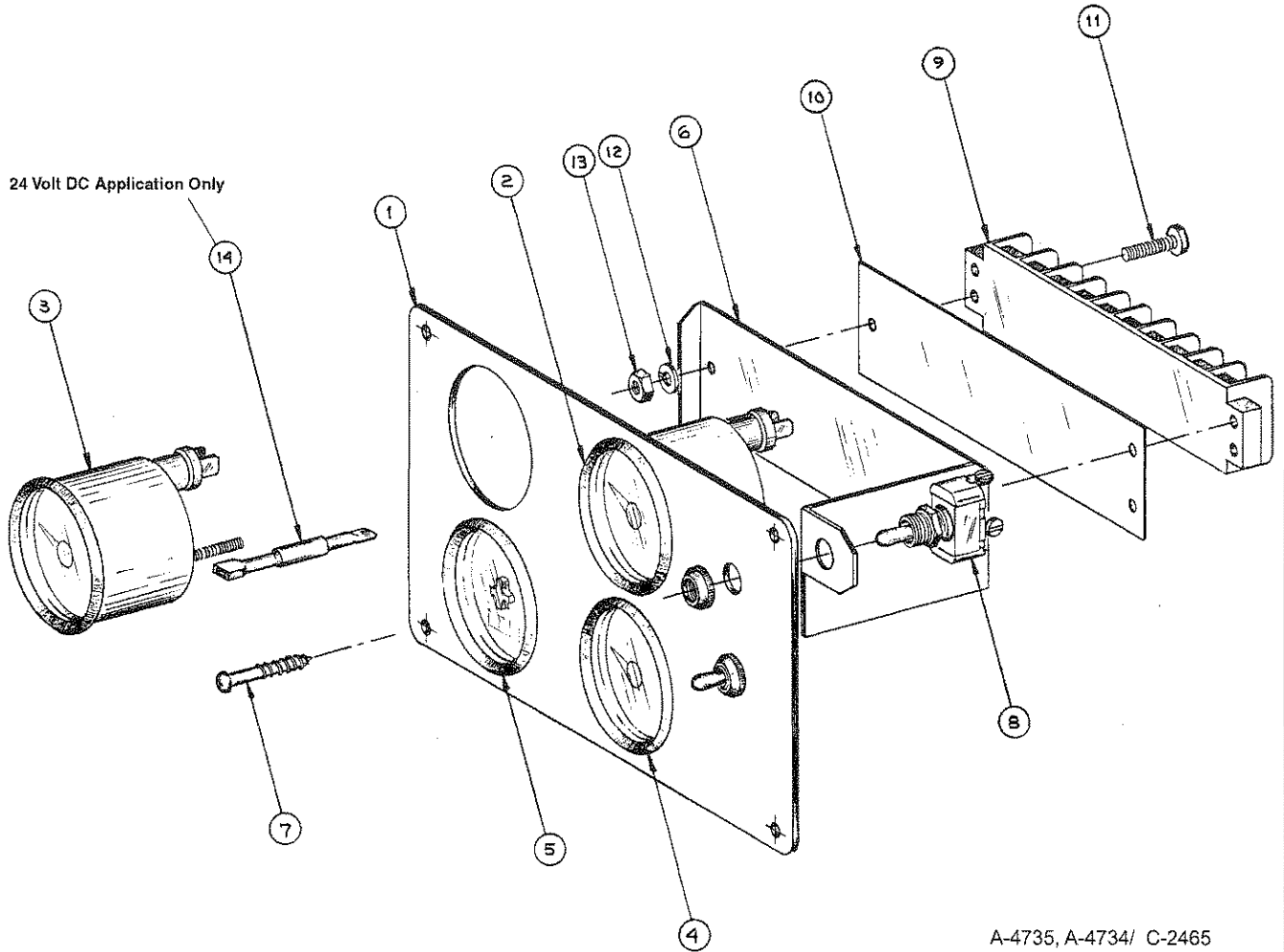


A-4722/ C-2470

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-91065	1	S-3B Control Panel Assembly, 12 Volt (includes all keys)	-
••	22-91066	1	S-3B Control Panel Assembly, 24 Volt (includes all keys)	-
1	39-40008	1	Enclosure	-
2	37-40010	1	Oil Pressure Gauge	-
3	37-40011	1	Engine Temperature Gauge	-
4	37-40012	1	DC Volt Meter, 12 Volt	-
	37-40014	1	DC Volt Meter, 24 Volt	-
5	37-40013	1	Hour Meter	-
6	00-91018	1	Decal	-
7	22-41077	1	Terminal Board	-
8	22-41051	2	Switch	-
9	22-00052	1	Number Strip	-
10	22-40004	2	Resistor Kit (24 Volt Panel only)	-
11	22-44852	**	Bulb, 12 Volt *	-
	22-44853	**	Bulb, 24 Volt *	-
12	22-40257	1	Wire Harness *	-
			*Not shown	
			** As required	

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

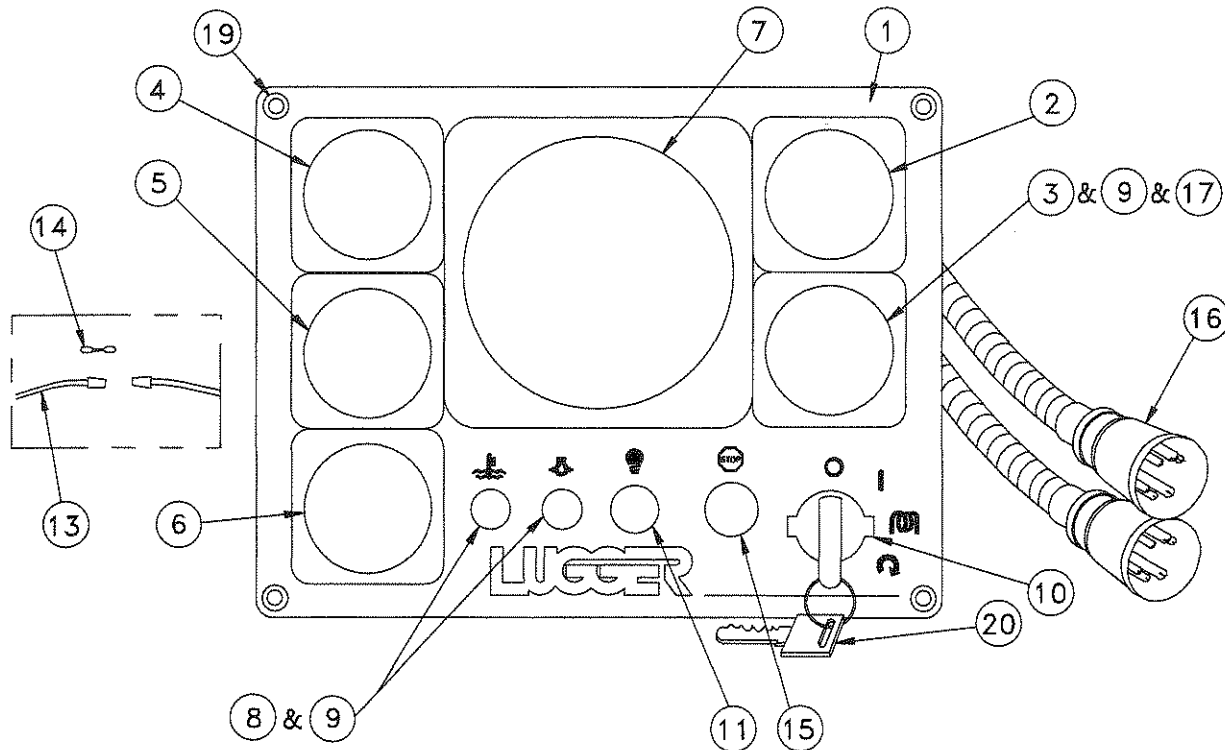
24 Volt DC Application Only



A-4735, A-4734/ C-2465

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

**Main Instrument Panel 12 & 24 Volt LP445**

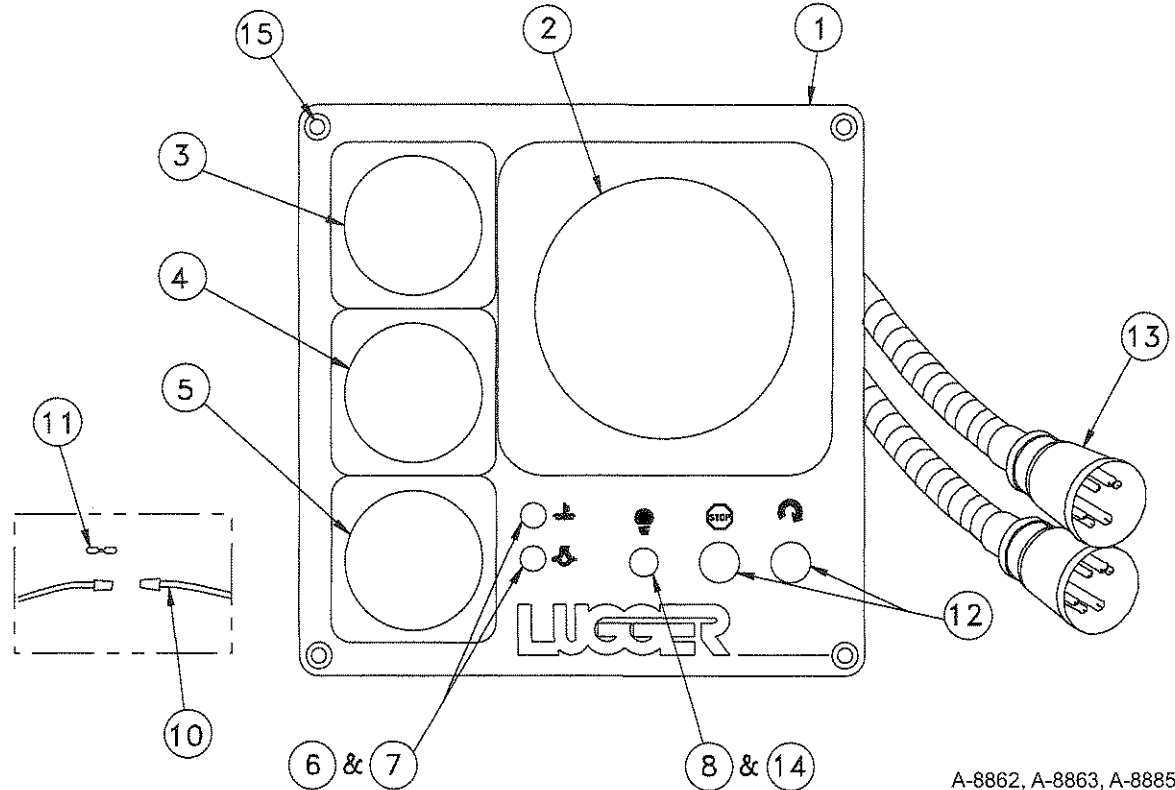


A-8803, A-9271/ B-4734-2

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99400	1	Main Instrument Panel, 12 Volt (includes all keys)	-
••	22-99415	1	Main Instrument Panel, 24 Volt (includes all keys)	-
1	37-96801	1	Panel Plate	-
2	37-90022	1	Voltmeter, 12 Volt	-
	37-90023	1	Voltmeter, 24 Volt	-
3	37-90024	1	Hourmeter	-
4	37-90025	1	Temperature Gauge, 12 Volt	-
	37-90026	1	Temperature Gauge, 24 Volt	-
5	37-90033	1	Oil Pressure Gauge, 0-80 PSI, 12 Volt	-
	37-90034	1	Oil Pressure Gauge, 0-80 PSI, 24 Volt	-
6	22-40263	1	Alarm Horn 12/24 Volt	-
7	37-99401	1	Tachometer, 0-3000 RPM, 12 Volt	-
	37-99402	1	Tachometer, 0-3000 RPM, 24 Volt	-
8	22-44851	2	Fault Lamp Holder, Amber	-
9	22-44852	**	Bulb, Clear 12 Volt	-
	22-44853	**	Bulb, Clear 24 Volt	-
10	37-94803	1	Key Switch	-
11	22-40247	1	Toggle Switch (for panel lights)	-
12	22-41060	2	Diode	-
13	22-00044	1	Fuse Holder	-
14	22-41008	1	Fuse, 7-1/2 Amp	-
15	37-91007	1	Push Button	-
16	22-44859	2	Wire Harness	-
17	22-44861	1	Red Diffuser (for hourmeter)	-
19	12-90002	4	Screw, Self Tapping #8	-
20	37-96805	1	Key, Double Sided	-
			**As required	



**Flybridge Panel 12 & 24 Volt**

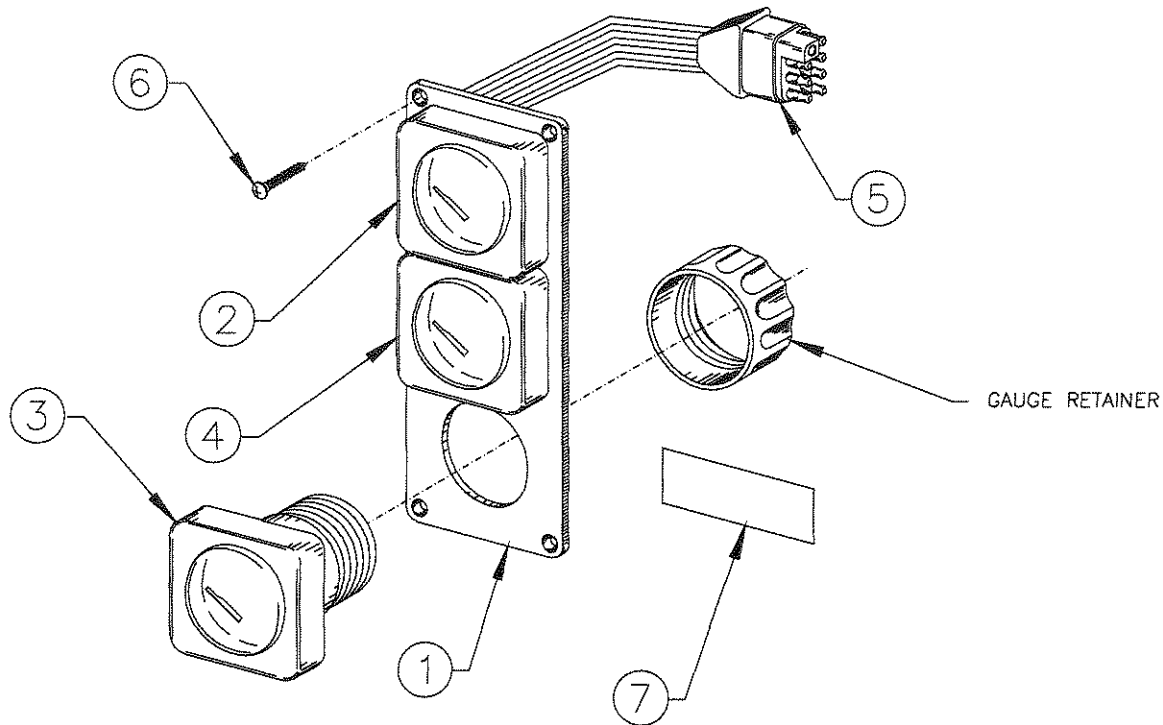


A-8862, A-8863, A-8885,  
A-8886/ B-4734-3

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-99405	1	Flybridge Panel Kit, 12 Volt (includes all keys)	-
••	22-99410	1	Flybridge Panel Kit, 24 Volt (includes all keys)	-
•	22-99404	1	Flybridge Panel Kit, 12 Volt (includes all keys)	-
•	22-99409	1	Flybridge Panel Kit, 24 Volt (includes all keys)	-
1	28-96802	1	Panel Plate	-
2	37-99401	1	Tachometer 0-3000 RPM, 12 Volt	-
	37-99402	1	Tachometer 0-3000 RPM, 24 Volt	-
3	37-90033	1	Oil Pressure Gauge, 0-80 PSI, 12 Volt	-
	37-90034	1	Oil Pressure Gauge, 0-80 PSI, 24 Volt	-
4	37-90025	1	Temperature Gauge, 12 Volt	-
	37-90026	1	Temperature Gauge, 24 Volt	-
5	22-40263	1	Alarm Horn - 12/24 Volt	-
6	22-44851	2	Fault Lamp Holder, Amber	-
7	22-44852	**	Bulb, Clear - 12 Volt	-
	22-44853	**	Bulb, Clear - 24 Volt	-
8	22-40247	1	Toggle Switch (for panel lights)	-
9	22-41060	2	6 Amp 50 Volt Diode	-
10	22-00044	1	In-Line Fuse Holder	-
11	22-41008	1	7.5 Amp Fuse	-
12	37-91007	2	Push Button Weatherproof	-
13	22-90003	2	Wire Harness	-
14	22-40361	1	Toggle Switch Boot	-
15	12-90002	4	Self Tapping Screw #8 x 1, Type AB Philips	-
16	22-41001	1	Extension Harness 10 ft. (not shown)	-
17	22-71009	1	Double Plug "Y" Harness (not shown)	-
			**As required	

**Auxiliary Instrument Panel 12 & 24 Volt**

Turbocharged Propulsion Applications

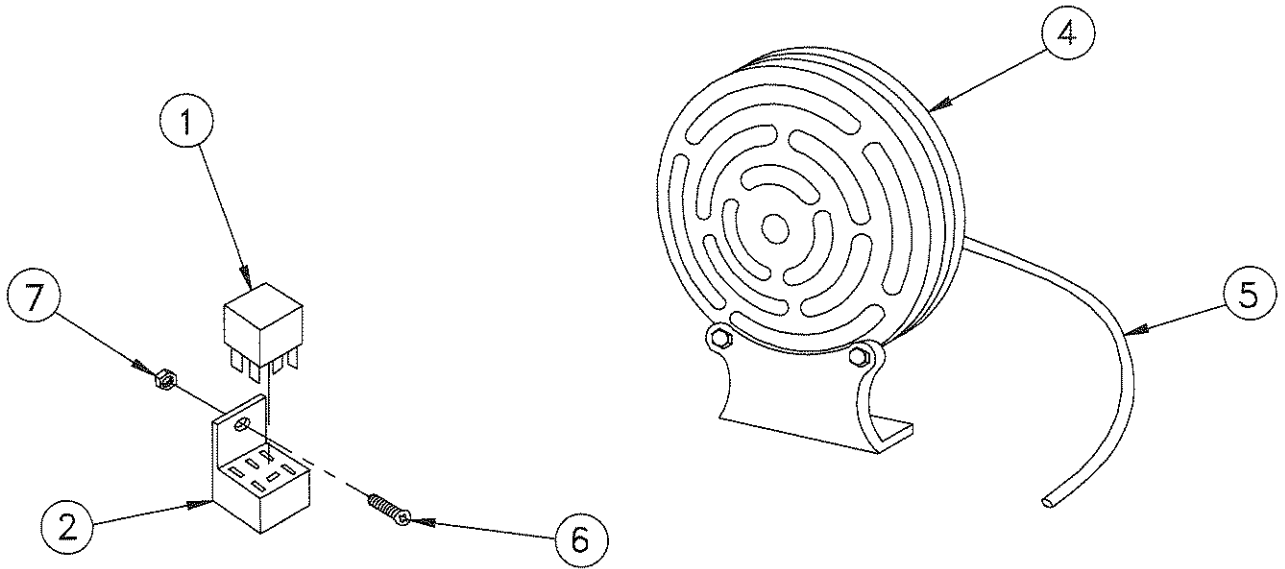


A-8845, A-8846, A-8865,  
A-8866/ B-4766

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
••	22-90640	1	12 Volt Auxiliary Panel Kit (includes all keys)	-
••	22-90645	1	24 Volt Auxiliary Panel Kit (includes all keys)	-
•	22-90639	1	12 Volt Auxiliary Panel (includes keys #1 - #7)	-
•	22-90644	1	24 Volt Auxiliary Panel (includes keys #1 - #7)	-
1	28-74801	1	Panel Plate	-
2	37-90029	1	Pyrometer Assembly (includes thermocouple & harness)	-
	37-90030	1	Pyrometer (gauge only)	-
	21-34802	1	Pyrometer Probe Connector (not shown)	-
3	37-90035	1	Oil Pressure Gauge, 0-400 PSI, 12 Volt	-
	37-90036	1	Oil Pressure Gauge, 0-400 PSI, 24 Volt	-
4	37-90063	1	Pressure Gauge, 0-28 PSI, 12 Volt	-
	37-90064	1	Pressure Gauge, 0-28 PSI, 24 Volt	-
5	22-44865	1	Wire Harness	-
6	12-90002	4	Self Taping Screw #8 x 1 Type AB Phillips	-
7	22-44852	**	Bulb, Clear - 12 Volt	-
	22-44853	**	Bulb, Clear - 24 Volt	-
	37-41004	**	Bulb, Clear - 12 Volt	-
	37-41003	**	Bulb, Clear - 24 Volt	-
8	22-41016	1	Pressure Sender 0-80 PSI (not shown)	-
9	22-40239	1	Pressure Sender 400 PSI (not shown)	-
10	21-00139	1	Adapter 1/8 BSPT x 1/8 NPT (not shown)	-
11	22-94803	1	Extension Harness 3 Ft. (not shown)	-
12	21-34802	1	Connector (for Thermocouple - included in 37-90029, not shown)	-
			**As required	

**Remote 12 & 24 Volt Loud Alarm**

Propulsion Application

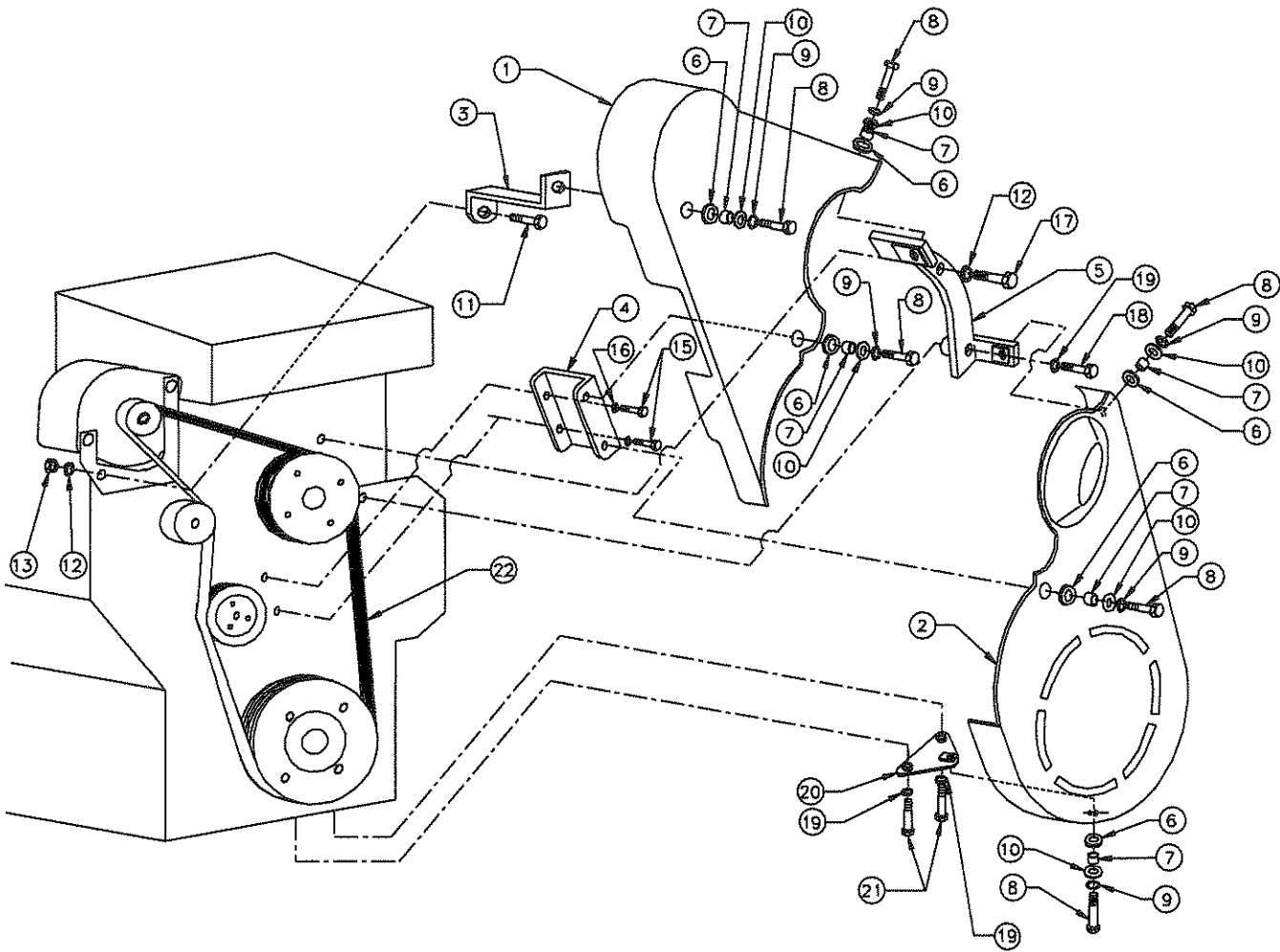


A-4186A/ PTalarm

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

# Belt Guard, Medium Frame Alternators

Units without PTO



A-8534/ C-5053

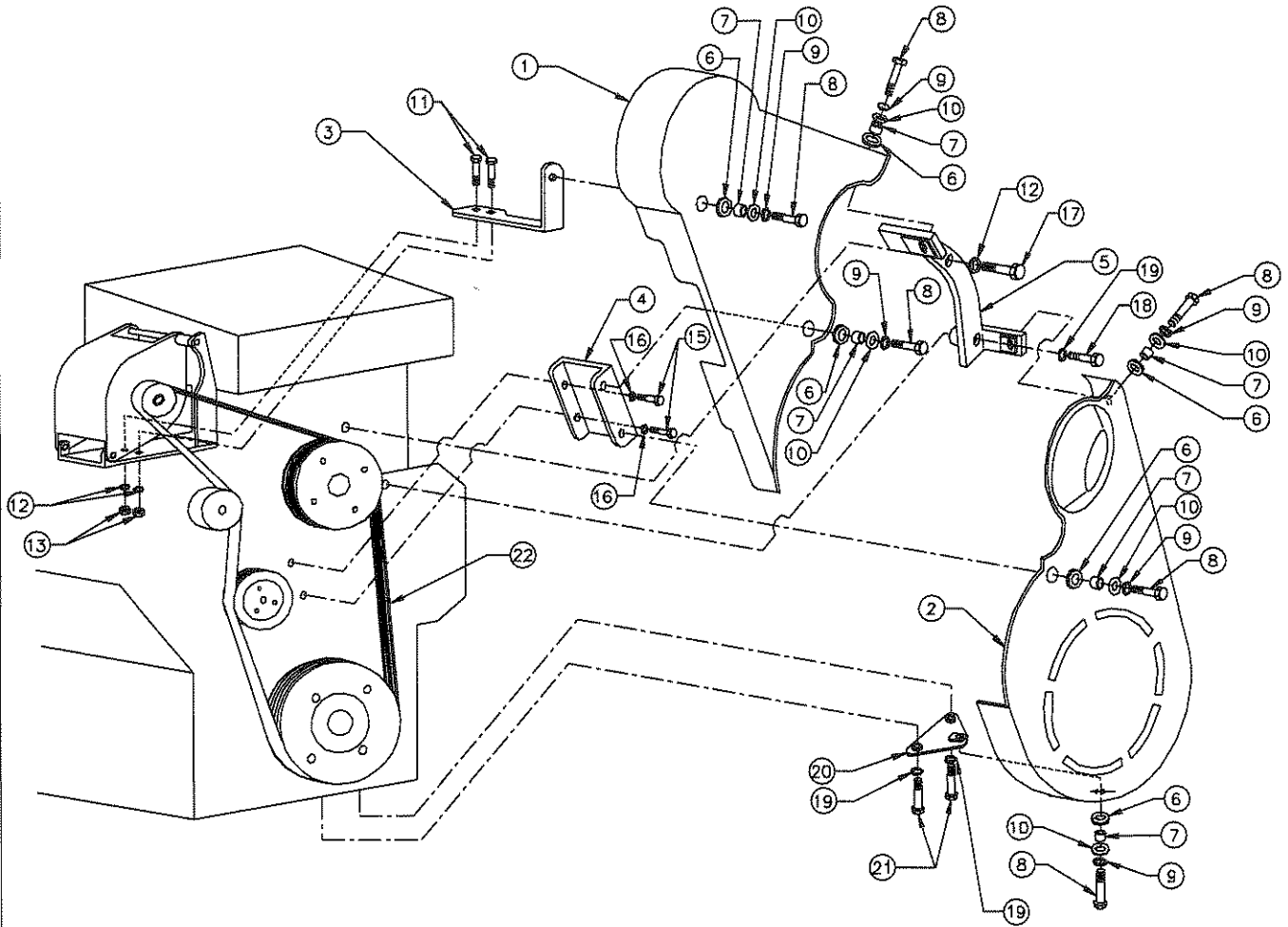
## Belt Guard, Medium Frame Alternators

Units without PTO

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-09501	1	Belt Guard, Upper 1/2	-
2	00-09401	1	Belt Guard, Lower 1/2	-
3	23-09502	1	Bracket	-
4	23-09503	1	Bracket	-
5	23-09507	1	Bracket	-
6	00-00017	6	Grommet	-
7	21-05002	6	Spacer	-
8	12-09712	6	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-00705	6	Lock Washer M8 S/S	-
10	15-70004	6	Snubbing Washer S/S	-
11	12-00832	1	Capscrew, Hex Head M10 x 1.5 x 30 mm	-
12	15-00802	2	Lock Washer M10	-
13	14-00811	1	Hex Nut M10 x 1.5	-
15	12-00072	2	Capscrew, Socket Head M6 x 1.0 x 30 mm	-
16	15-00018	2	Lock Washer, Hi-collar 1/4	-
17	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
18	12-00717	1	Capscrew, Hex Head M8 x 1.25 x 60 mm	-
19	15-00702	3	Lock Washer M8	-
20	23-09506	1	Bracket	-
21	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40 mm	-
22		1	Drive Belt, Poly-V (see application chart)	-

# Belt Guard, Large Frame Alternators

Units without PTO



A-8691/ C-5056

## Belt Guard, Large Frame Alternators

Units without PTO

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	00-09503	1	Belt Guard, Upper 1/2	-
2	00-09401	1	Belt Guard, Lower 1/2	-
3	23-09508	1	Bracket	-
4	23-09503	1	Bracket	-
5	23-09507	1	Bracket	-
6	00-00017	6	Grommet	-
7	21-05002	6	Spacer	-
8	12-09712	6	Capscrew, Hex Head M8 x 1.25 x 25 mm S/S	-
9	15-00705	6	Lock Washer M8 S/S	-
10	15-70004	6	Snubbing Washer S/S	-
11	12-00814	2	Capscrew, Hex Head M10 x 1.5 x 35 mm	-
12	15-00802	3	Lock Washer M10	-
13	14-00811	3	Hex Nut M10 x 1.5	-
15	12-00072	1	Capscrew, Socket Head M6 x 1.0 x 30 mm	-
16	15-00018	2	Lock Washer, Hi-collar 1/4	-
17	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
18	12-00717	1	Capscrew, Hex Head M8 x 1.25 x 60 mm	-
19	15-00702	3	Lock Washer M8	-
20	23-09506	1	Bracket	-
21	12-00714	2	Capscrew, Hex Head M8 x 1.25 x 40 mm	-
22		1	Drive Belt, Poly-V (see application chart)	-

GROUP 6 - GASKETS

**Gasket Set, Engine Overhaul**

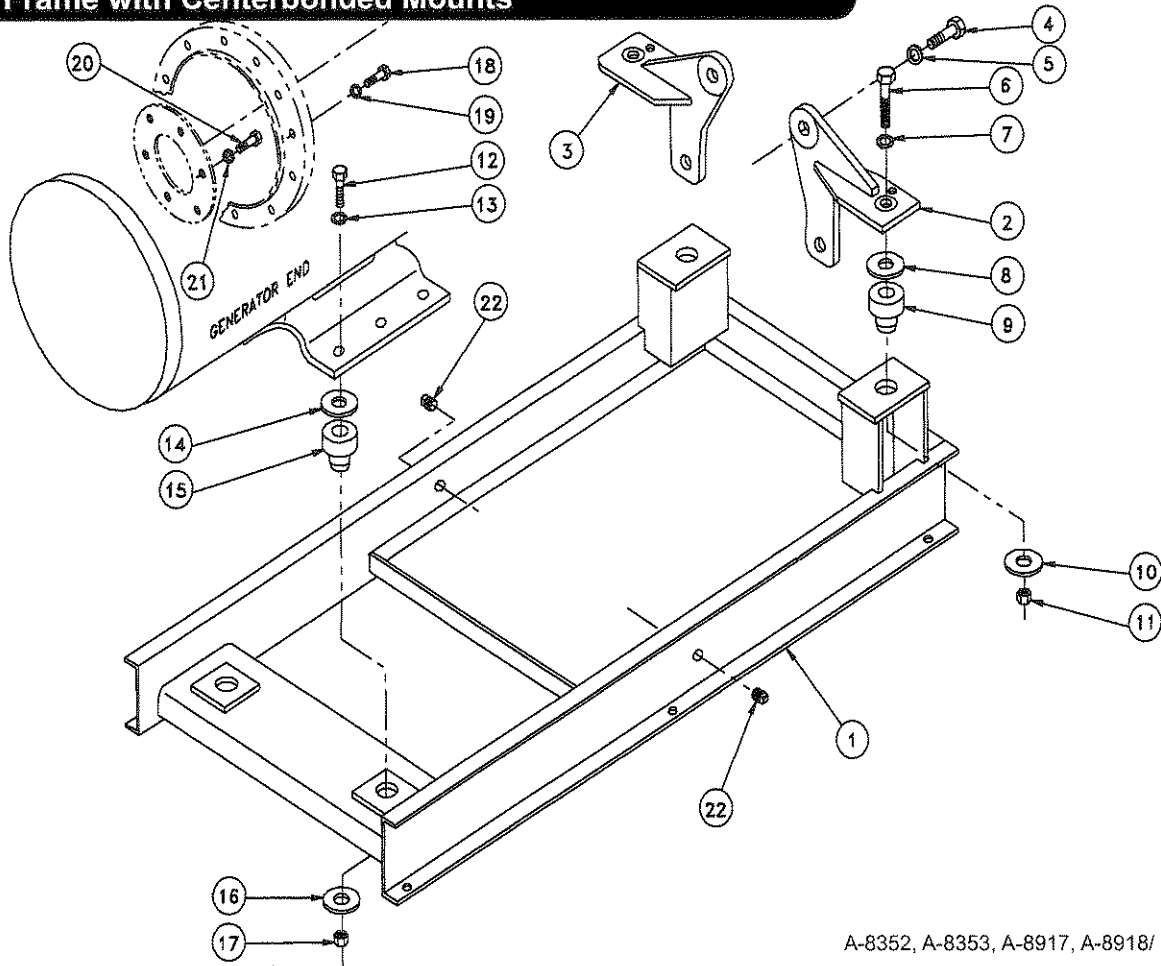
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
			<b>LP-MP 445 Engine Overhaul Gasket Set</b>	
••	29-09400	1	Gasket Set (includes all keys)	-
1	R123542	1	Gasket, Rocker Arm Cover	-
2	R90658	4	Gasket, Exhaust Manifold	-
3	R502814	1	Gasket, Thermostat Cover (ADE #11-39501)	-
4	R123226	2	Gasket, Water By-pass Tube	-
5	R123345	1	Gasket, Thermostat Housing	-
6	R123570	1	Gasket, Turbocharger Oil Outlet Tube	-
7	R123575	4	O-ring, Rocker Arm Cover Hold Down Stud	-
8	R116515	1	Engine Cylinder Head Gasket	-
9	R501373	1	Gasket, Thermostat Cover	-
10	R81275	1	Gasket, Air Inlet	-
11	R92097	1	Gasket, Turbocharger to Exhaust Manifold	-
12	R123353	1	Gasket, Engine Oil Pan	-
13	R123352	1	Gasket, Oil Pan	-
14	R75892	1	O-ring, Oil Pump Tube Connector	-
15	R97185	1	O-ring, Oil Pump Outlet Tube to Cover	-
16	R61871	1	O-ring, Oil Pump Intake Tube	-
17	A4827R	1	Washer	-
18	RE44574	1	Seal	-
19	RE59810	1	Seal Kit, Front Oil Seal	-
20	R123273	1	O-ring, Fuel Transfer Pump	-
21	R123417	1	Gasket, Water Pump	-
22	R136516	1	Gasket, Timing Gear Cover	-
	R136515	1	Gasket, Timing Gear Cover	-
23	R123501	1	Gasket, Oil Cooler Housing	-
24	R123504	1	Gasket, Remote Oil Filter Adapter	-
25	R123525	1	Gasket, Oil Filter Header	up to - 764919
26	R53108	1	Gasket, Starting Motor	-
27	R72328	4	O-ring, Oil Filter Tubes	-
28	R89944	1	O-ring, Water Pump Inlet	-
29	R61105	2	O-ring, Connector Tube to Timing Gear Cover	-
30	T122075	2	O-ring, Oil Cooler to Housing	-
31	R501428	1	Gasket, Coolant Passage Adapter	-
32	R500374	1	Gasket, Oil Filter Header	from 764920 -
33	RE66082	1	Gasket Kit, Cylinder Head Removal	-
34	RE66084	1	Gasket Kit, in Chassis Overhaul	-
35	16-15005	4	O-ring	-
36	16-01000	4	O-ring	-
37	16-31000	1	O-ring	-
38	052300400	1	O-ring	-
39	11-31011	4	Gasket, Exhaust	-
40	11-30013	1	Gasket, Exhaust Flange	-
41	11-31401	1	Gasket, K26 Turbo Mounting	-
42	11-21011	2	Gasket, Intake Port	-
43	11-31031	1	Gasket, Turbo Oil Return	-
44	11-31012	1	Gasket	-
45	11-11022	1	Gasket, Filler Neck Mounting	-
46	11-11023	1	Gasket, Manifold to Expansion Tank	-



## Gasket Set, Engine Overhaul

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
47	11-10015	2	Thermostat Seal Ring	-
48	11-11013	1	Gasket, Thermostat Cover Mounting	-
49	11-11043	1	Gasket, Expansion Tank Connection	-
50	16-19502	1	O-ring	-
51	16-14804	1	O-ring	-
52	16-19503	1	O-ring	-
53	16-19501	2	O-ring	-
54	15-09501	2	Sealing Washer, Copper M22	-
55	11-31615	1	Gasket, Turbo/Exhaust Mtg.	-
<b>NL445 Engine Overhaul Gasket Set</b>				
••	RE501455	1	Gasket Set (includes all keys)	-
1	R123542	1	Gasket, Rocker Arm Cover	-
2	R90658	4	Gasket, Exhaust Manifold	-
3	R135896	1	Gasket, Thermostat Cover	-
4	R123226	2	Gasket, Water By-pass Tube	-
5	R123345	1	Gasket, Thermostat Housing	-
6	R123570	1	Gasket, Turbocharger Oil Outlet Tube	-
7	R123575	4	O-ring, Rocker Arm Cover Hold Down Stud	-
8	R116515	1	Gasket, Engine Cylinder Head	-
9	R501373	1	Gasket, Thermostat Cover	-
10	R81275	1	Gasket, Air Inlet	-
11	R92097	1	Gasket, Turbocharger to Exhaust Manifold	-
12	R123353	1	Gasket, Engine Oil Pan	-
13	R123352	1	Gasket, Oil Pan	-
14	R75892	1	O-ring, Oil Pump Tube Connector	-
15	R97185	1	O-ring, Oil Pump Outlet Tube to Cover	-
16	R61871	1	O-ring, Oil Pump Intake Tube	-
17	A4827R	1	Washer, Oil Pressure Regulator Plug	-
18	RE44574	1	Seal, Rear Oil	-
19	RE59810	1	Seal Kit, Front Oil	-
20	R123273	1	O-ring, Fuel Transfer Pump	-
21	R123417	1	Gasket, Water Pump	-
22	R136516	1	Gasket, Timing Gear Cover	-
	R136515	1	Gasket, Timing Gear Cover	-
23	R123501	1	Gasket, Oil Cooler Housing	-
24	R123504	1	Gasket, Remote Oil Filter Adapter	-
25	R123525	1	Gasket, Oil Filter Header	up to - 764919
26	R53108	1	Gasket, Starting Motor	-
27	R72328	4	O-ring, Oil Filter Tubes	-
28	R89944	1	O-ring, Water Pump Inlet	-
29	R61105	2	O-ring, Connector Tube to Timing Gear Cover	-
30	T122075	2	O-ring, Oil Cooler to Housing	-
31	R501428	1	Gasket, Adapter Coolant Passage	-
32	R500374	1	Gasket, Oil Filter Header	from 764920 -
33	RE66082	1	Gasket Kit, Cylinder Head Removal	-
34	RE66084	1	Gasket Kit, In Chassis Overhaul	-

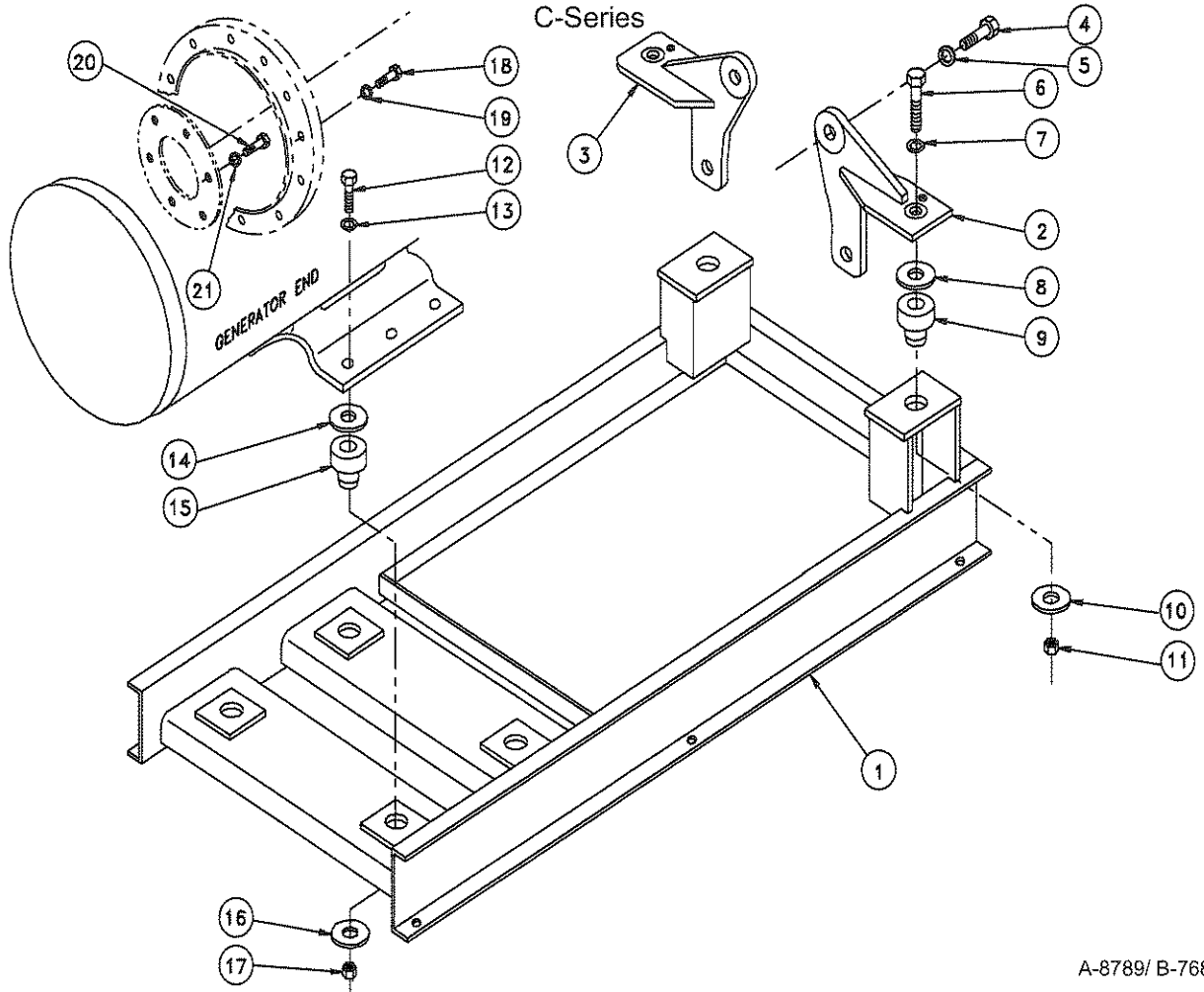
**Base Frame with Centerbonded Mounts**



A-8352, A-8353, A-8917, A-8918/ B-7688

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-81019	1	Base Frame, Steel	-
	39-81033	1	Base Frame, Aluminum	-
2	23-81001	1	Bracket, Front Engine Mtg., Right Hand	-
3	23-81002	1	Bracket, Front Engine Mtg., Left Hand	-
4	12-04803	4	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
5	15-01000	4	Lock Washer, M16	-
6	12-00034	2	Capscrew, Hex Head, 5/8 -11 x 3 -1/2"	-
7	15-01330	2	Flat Washer, 5/8" SAE	-
8	15-00015	2	Head Washer	-
9	33-81002	2	Centerbonded Mount 500 lbs.	-
10	15-00025	2	Tail Washer	-
11	14-00912	2	Hex Nut, Nylock	-
12	12-00034	2	Capscrew, Hex Head, 5/8 -11 x 3 -1/2"	-
13	15-01330	2	Flat Washer 5/8" SAE	-
14	15-00015	2	Head Washer	-
15	33-81002	2	Centerbonded Mount 500 lbs. (MP445D all & MP445T 3 Phase)	-
	33-81008	2	Centerbonded Mount 650 lbs. (MP445T 1 Phase & MP445H all)	-
16	15-00025	2	Tail Washer	-
17	14-00912	2	Hex Nut, Nylock	-
18	12-00814	12	Capscrew, Hex Head, M10 x 1.5 x 35 mm	-
19	15-00802	12	Lock Washer M10	-
20	12-00312	8	Capscrew, Hex Head, 3/8 -16 x 1"	-
21	15-00302	8	Lock Washer, Helical 3/8	-
22	21-00530	2	Plug, Hex Head, Brass 1/2 NPT	-

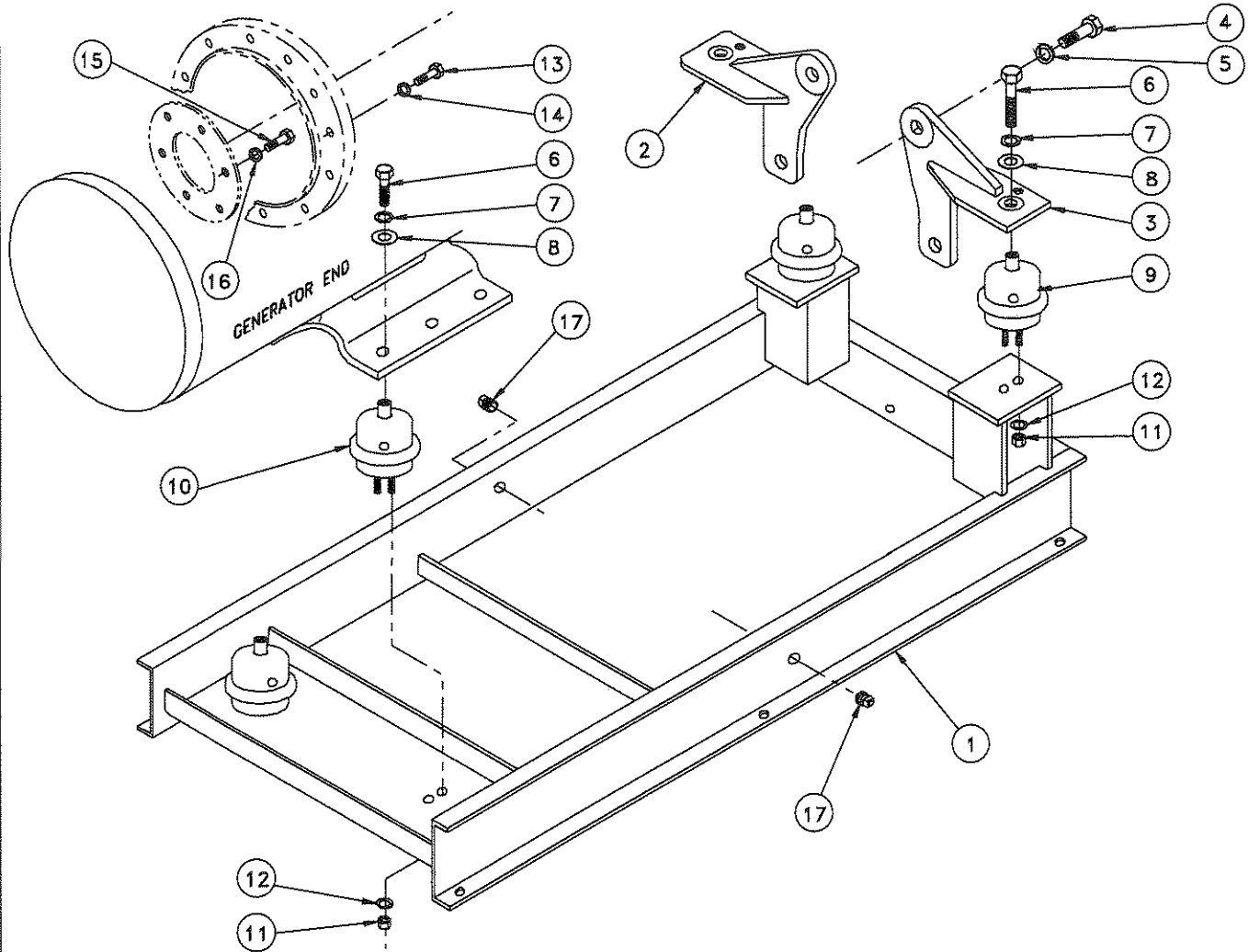
**Base Frame with Centerbonded Mounts**



A-8789/ B-7689z

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-81013	1	Base Frame, Steel	-
	39-81044	1	Base Frame, Aluminum	-
2	23-81001	1	Bracket, Front Engine Mtg., Right Hand	-
3	23-81002	1	Bracket, Front Engine Mtg., Left Hand	-
4	12-04803	4	Cap screw, Hex Head M16 x 2.0 x 40 mm	-
5	15-01000	4	Lock Washer, M16	-
6	12-00550	2	Cap Screw, Hex Head, 1/2 -13 x 3"	-
7	15-00504	2	Flat Washer, 1/2" SAE	-
8	15-00016	2	Head Washer	-
9	33-81054	2	Centerbonded Mount 400 Lbs.	-
10	15-00026	2	Tail Washer	-
11	14-00512	2	Hex Nut, Nylock 1/2 -13	-
12	12-00519	4	Cap Screw, Hex Head, 1/2 -13 x 2 -3/4"	-
13	15-00504	4	Flat Washer, 1/2"	-
14	15-00016	4	Head Washer	-
15	33-81054	4	Centerbonded Mount 400 Lbs.	-
16	15-00026	4	Tail Washer	-
17	14-00512	4	Hex Nut, Nylock 1/2 -13	-
18	12-00814	12	Cap Screw, Hex Head, M10 x 1.5 x 35 mm	-
19	15-00802	12	Lock Washer, Helical M10	-
20	12-00312	8	Cap Screw, Hex Head, 3/8 -16 x 1"	-
21	15-00302	8	Lock Washer, Helical 3/8	-

Base Frame with Hydrolastic Mounts



A-9279, A-9280, A-8355, A-8356, A-8357, A-8358 / B-7682

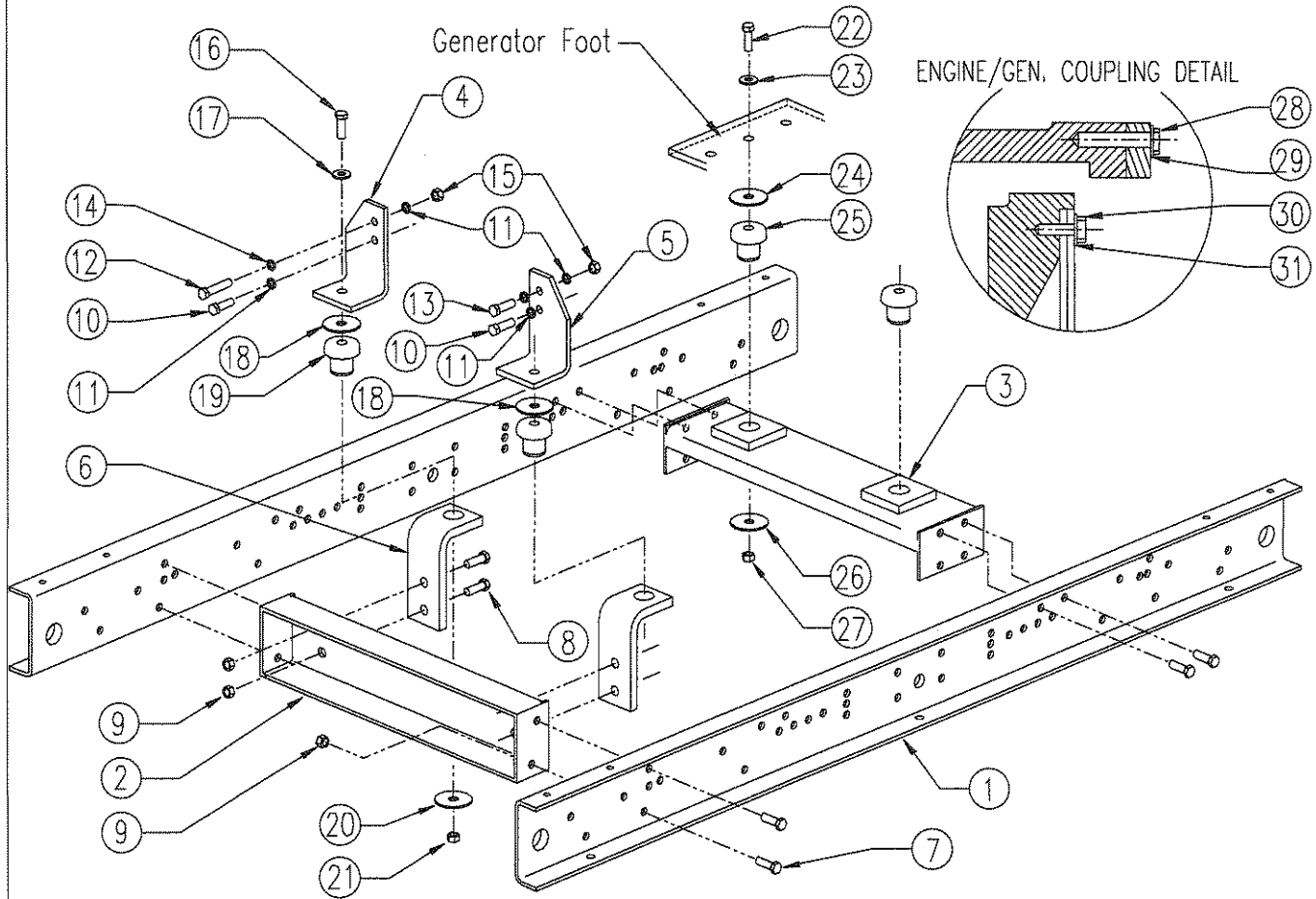
### Base Frame with Hydrolastic Mounts

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-81032	1	Base Frame, Steel	-
	39-81041	1	Base Frame, Aluminum	-
2	23-81002	1	Bracket, Front Engine Mtg., Left Hand	-
3	23-81001	1	Bracket, Front Engine Mtg., Right Hand	-
4	12-04803	4	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
5	15-01000	4	Lock Washer, M16	-
6	12-00913	4	Cap Screw, Hex Head, 5/8 -11 x 1 -1/2"	-
7	15-00902	4	Lock Washer, Helical 5/8	-
8	15-01330	4	Flat Washer 5/8" SAE	-
9	33-81012	2	Hydrolastic Mount 400 lbs. (all) *	-
10	33-81012	2	Hydrolastic Mount 400 lbs. (MP445D all)	-
	33-81013	2	Hydrolastic Mount 500 lbs. (MP445T all, MP445H 3 Phase)	-
	33-81014	2	Hydrolastic Mount 600 lbs. (MP445H 1 Phase)	-
11	14-00511	8	Hex Nut 1/2 -13	-
12	15-00502	8	Lock Washer, Helical 1/2"	-
13	12-00814	12	Cap Screw, Hex Head, M10 x 1.5 x 35 mm	-
14	15-00802	12	Lock Washer, Helical M10	-
15	12-00311	8	Cap Screw, Hex Head, 3/8 -16 x 3/4"	-
16	15-00302	8	Lock Washer, Helical 3/8	-
17	21-00530	2	Plug, Hex Head, Brass 1/2 NPT	-

\* Note: Mounts listed are for units without front PTO and are stamped #14 on upper portion of housing. Mounts provided on applications with PTO are stamped #15, #16, or #17. Contact dealer or factory for part numbers required. Have unit serial # available.

# Base Frame with Centerbonded Mounts

Industrial Units



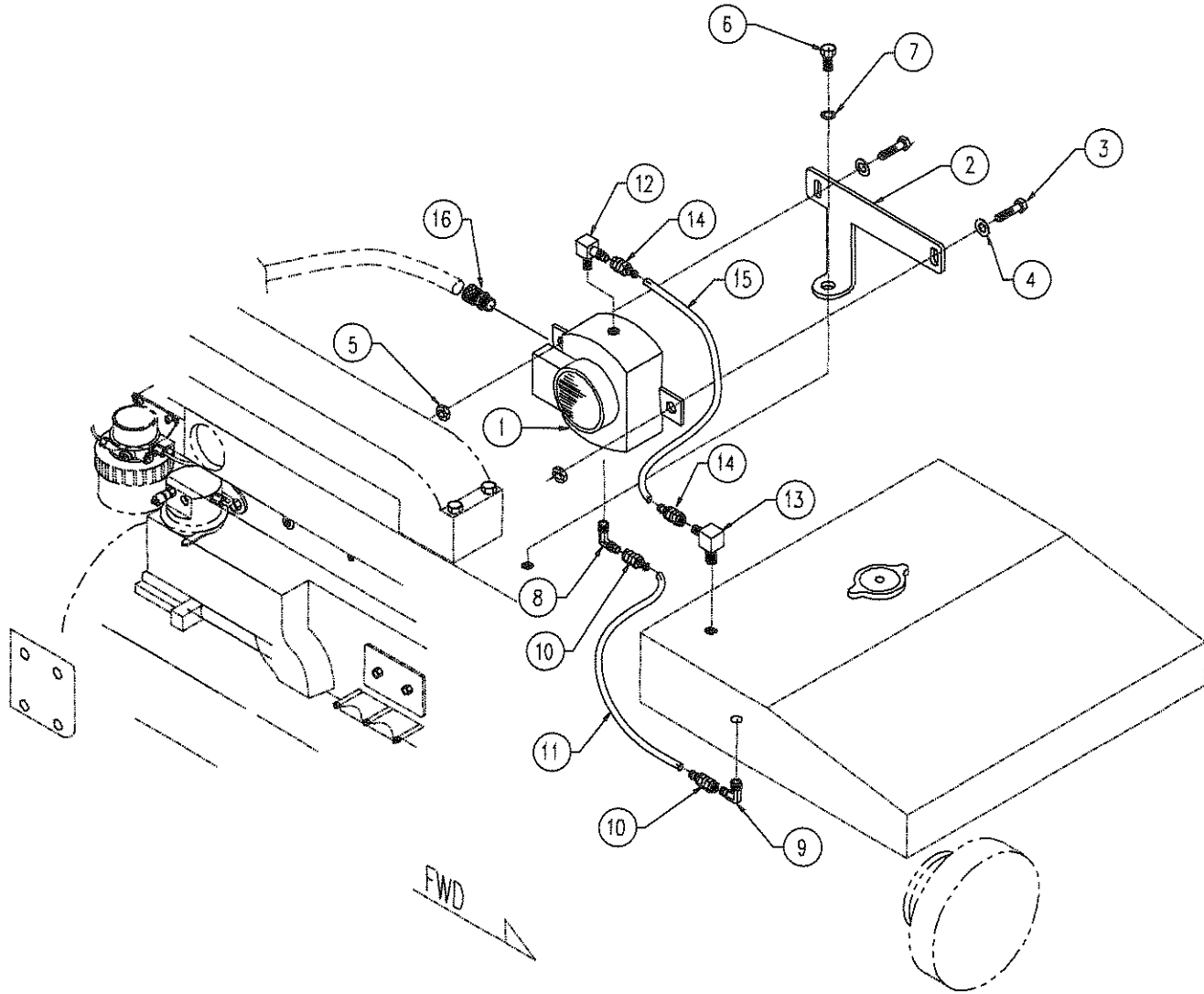
A-8047A, A-8085A/ D-3178A

## Base Frame with Centerbonded Mounts

Industrial Units

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	39-81002	2	Side Rail	-
2	39-81014	1	Engine Support	-
3	39-81004	1	Generator Support	-
4	23-81035	1	Bracket, Front Engine Mounting, Right Hand	-
5	23-81036	1	Bracket, Front Engine Mounting, Left Hand	-
6	23-81037	2	Bracket, Engine Support	-
7	12-80513	8	Capscrew, Hex Head Flanged 1/2 -13 x 1 -1/4"	-
8	12-80514	4	Capscrew, Hex Head Flanged 1/2 -13 x 1 -1/2"	-
9	14-00502	12	Lock Nut, Plain Flanged 1/2 -13	-
10	12-04803	2	Cap Screw, Hex Head, M16 x 2.0 x 40 mm	-
11	15-01000	4	Lock Washer, Helical M16	-
12	12-01512	1	Cap Screw, Hex Head, M16 x 2.0 x 70 mm	-
13	12-01504	1	Cap Screw, Hex Head, M16 x 2.0 x 60 mm	-
14	01643-31645	2	Flat Washer M16	-
15	14-01432	2	Hex Nut M16 x 2.0	-
16	12-00034	2	Cap Screw, Hex Head, 5/8 -11 x 3 -1/2"	-
17	15-01330	2	Flat Washer 5/8" SAE	-
18	15-00015	2	Head Washer	-
19	33-81002	2	Centerbonded Mount, 500 Lbs.	-
20	15-00025	2	Tail Washer	-
21	14-00912	2	Hex Nut, Nylock	-
22	12-00034	2	Cap Screw, Hex Head, 5/8 -11 x 3 -1/2"	-
23	15-01330	2	Flat Washer 5/8" SAE	-
24	15-00015	2	Head Washer	-
25	33-81002	2	Centerbonded Mount, 500 lbs. (NL445D1)	-
	33-81008	2	Centerbonded Mount, 650 lbs. (NL445T1 & T2)	-
26	15-00025	2	Tail Washer	-
27	14-00912	2	Hex Nut, Nylock	-
28	12-00814	12	Cap Screw, Hex Head, M10 x 1.5 x 35 mm	-
29	15-00802	12	Lock Washer, Helical M10	-
30	12-00312	8	Cap Screw, Hex Head, 3/8 -16 x 1"	-
31	15-00302	8	Lock Washer, Helical 3/8	-

**Low Coolant Level Switch/ Gauge**



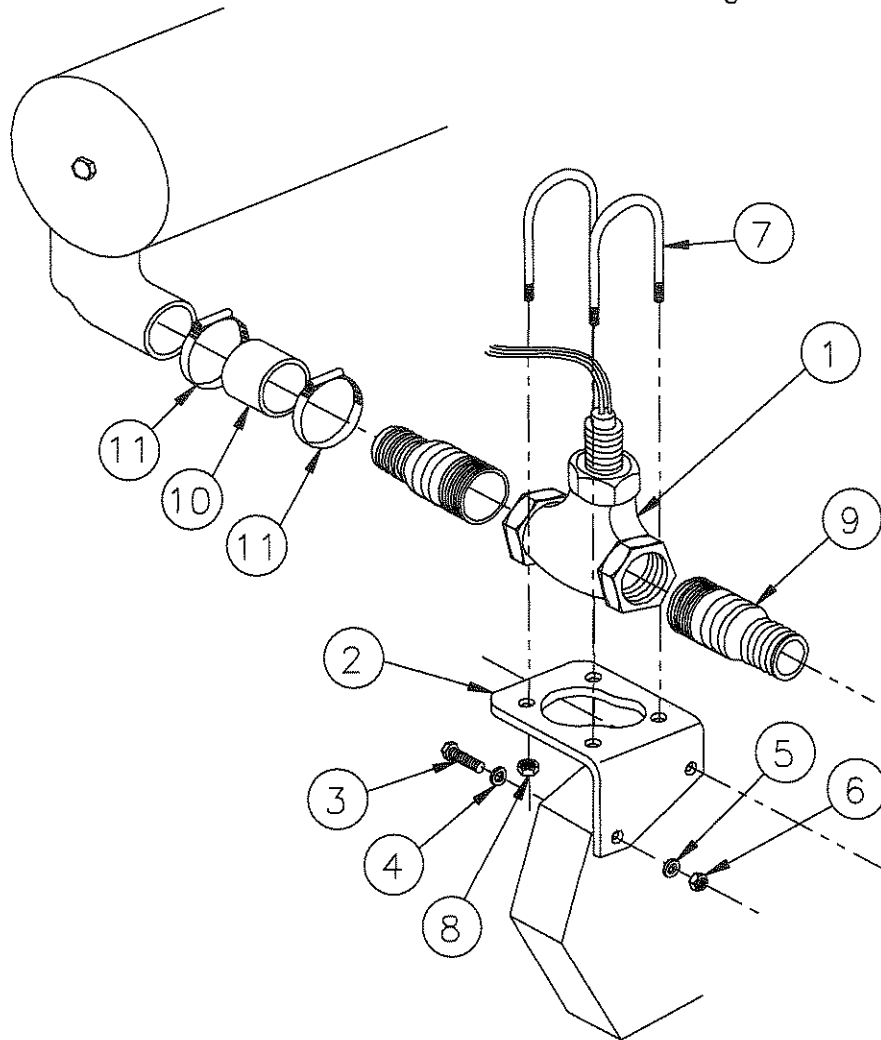
A-8350/ C-4519

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



**Raw Water Flow Switch**

Heat Exchanged units with Dry Exhaust

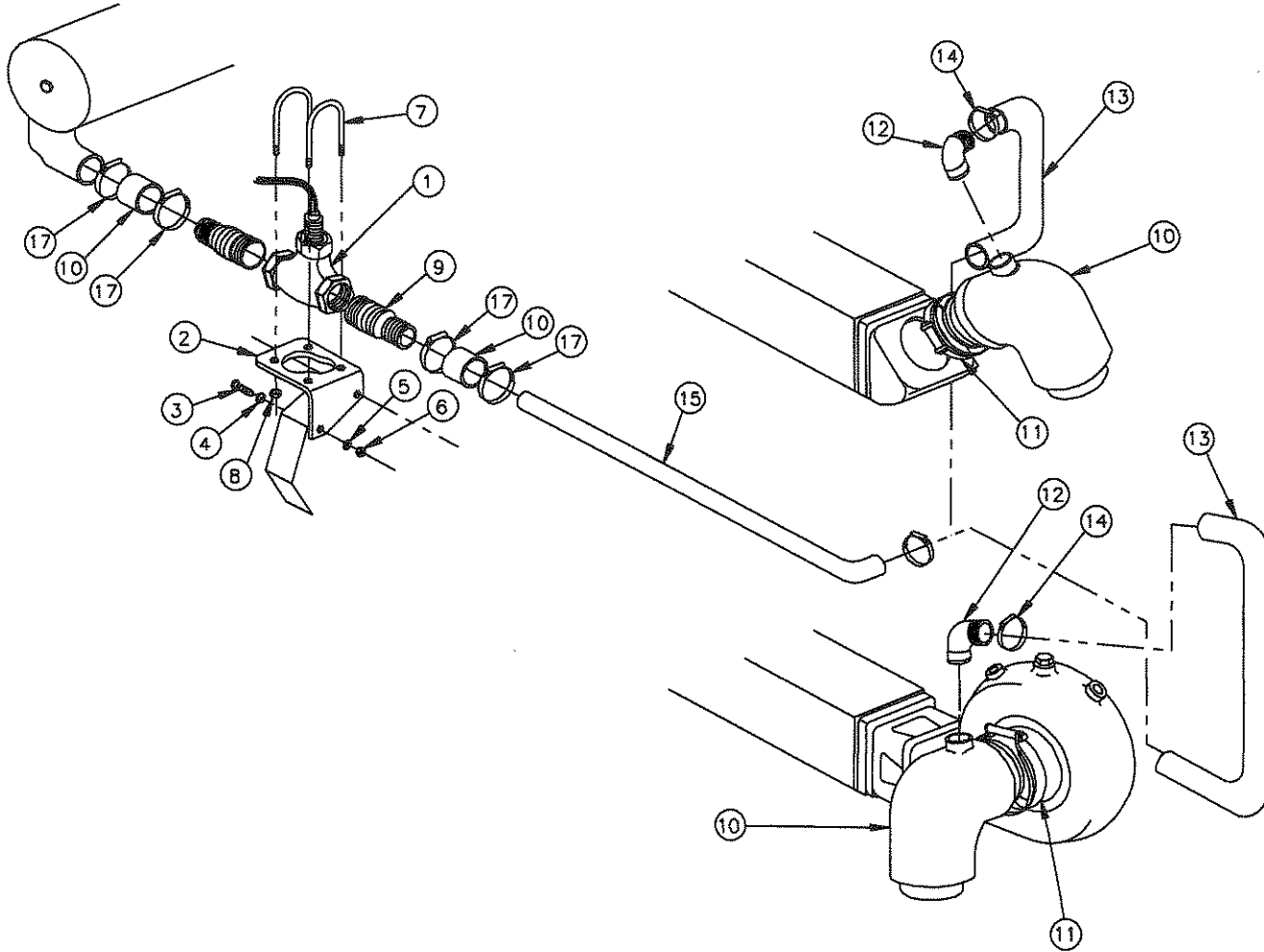


A-9082

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

**Raw Water Flow Switch with Wet Exhaust Elbow**

Heat Exchanged



A-8513, A-8515 / B-8014

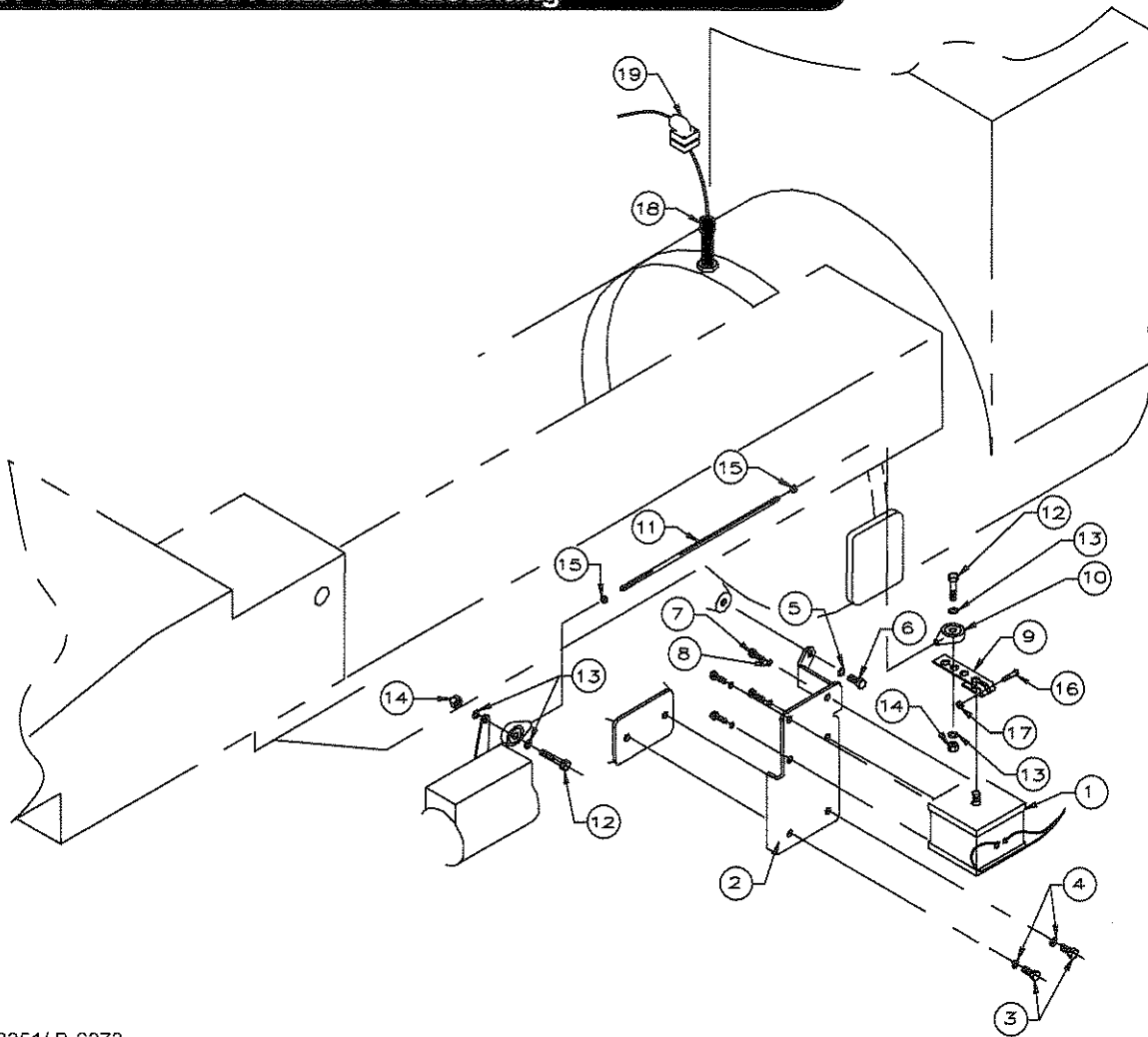
KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-11004	1	Flow Switch 10 GPM 1 -1/4 NPT (Generator Sets)	-
2	23-19501	1	Bracket, Flow Switch Mounting	-
3	12-00716	2	Capscrew, Hex Head M8 x 1.25 x 55 mm	-
4	15-00701	2	Flat Washer M8	-
5	15-00702	2	Lock Washer Helical M8	-
6	14-00711	2	Hex Nut M8 x 1.25	-
7	19-19501	2	U-Bolt 1 -1/2" ID x 3/8 -16 S/S	-
8	14-00302	4	Lock Nut, Plain Flanged 3/8 -16	-
9	21-15017	2	Male Connector Brass 1 -1/4 NPT x 1 -1/4" HB	-
10	27-31412	1	Elbow, Wet Exhaust 4"	-
11	19-31401	1	V-clamp	-
12	21-31007	1	Male Elbow 90° Copper 1" NPT x 1 -1/4" HB	-
13	41-01070	24	Hose 1 -1/4" ID	-
14	19-00020	4	Hose Clamp #20	-
15	27-19402	1	Tube, Raw Water Discharge 1 -1/4" OD (MP445D)	-
	27-19401	1	Tube, Raw Water Discharge 1 -1/4" OD (MP445T)	-
16	18-19501	2	Hose 1 -1/4" ID x 2 -1/2"	-
17	19-01020	4	Hose Clamp #20 Extended Band S/S	-

## Raw Water Flow Switch with Wet Exhaust Elbow

Keel Cooled

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	22-11004	1	Flow Switch 10 GPM 1 -1/4 NPT	-
2	23-19504	1	Bracket, Flow Switch Mounting	-
7	19-19501	2	U-Bolt 1 -1/2" ID x 3/8 -16 S/S	-
8	14-00302	2	Lock Nut, Plain Flanged 3/8 -16	-
9	21-15017	2	Male Connector Brass 1 -1/4 NPT x 1 -1/4" HB	-
10	27-31412	1	Elbow, Wet Exhaust 4"	-
11	19-31401	1	V-clamp	-
12	21-31007	1	Male Elbow 90° Copper 1" NPT x 1 -1/4" HB	-
13	41-01070	24	Hose 1 -1/4" ID	-
14	19-00020	4	Hose Clamp #20	-
15	27-19403	1	Tube, Raw Water Discharge	-
16	18-19501	2	Hose 1 -1/4" ID x 2 -1/2"	-
17	19-01020	4	Hose Clamp #20 Extended Band S/S	-
18	25-19501	1	Raw Water Pump	-
19	R135101	1	Gear, Raw Water Pump Drive	-
20	15-19503	1	Shaft Flat Washer M20	-
21	14-19501	1	Hex Nut	-
22	32-00005	1	Cotter Pin, S/S 1/8" x 1 -1/4"	-
23	16-19503	1	O-ring	-
24	12-00954	2	Capscrew, Hex Head M12 x 1.75 x 35 mm	-
25	15-00912	2	Lock Washer, Helical M12	-
26	27-19502	1	Tube, Raw Water Pump Outlet	-
27	18-19501	1	Hose 1 -1/4" ID x 2 -1/2"	-
28	19-01020	1	Hose Clamp #20 Extended Band S/S	-
29	19-71031	1	Adelle Clamp 1 -1/4" ID x 1/2" stud	-
30	12-00805	1	Capscrew, Hex Head M10 x 1.5 x 20 mm	-
31	15-00802	1	Lock Washer, Helical M10	-
32	15-00805	1	Flat Washer M10	-
33	23-19505	1	Bracket, Tube Support	-
34	23-19505	1	Spacer	-

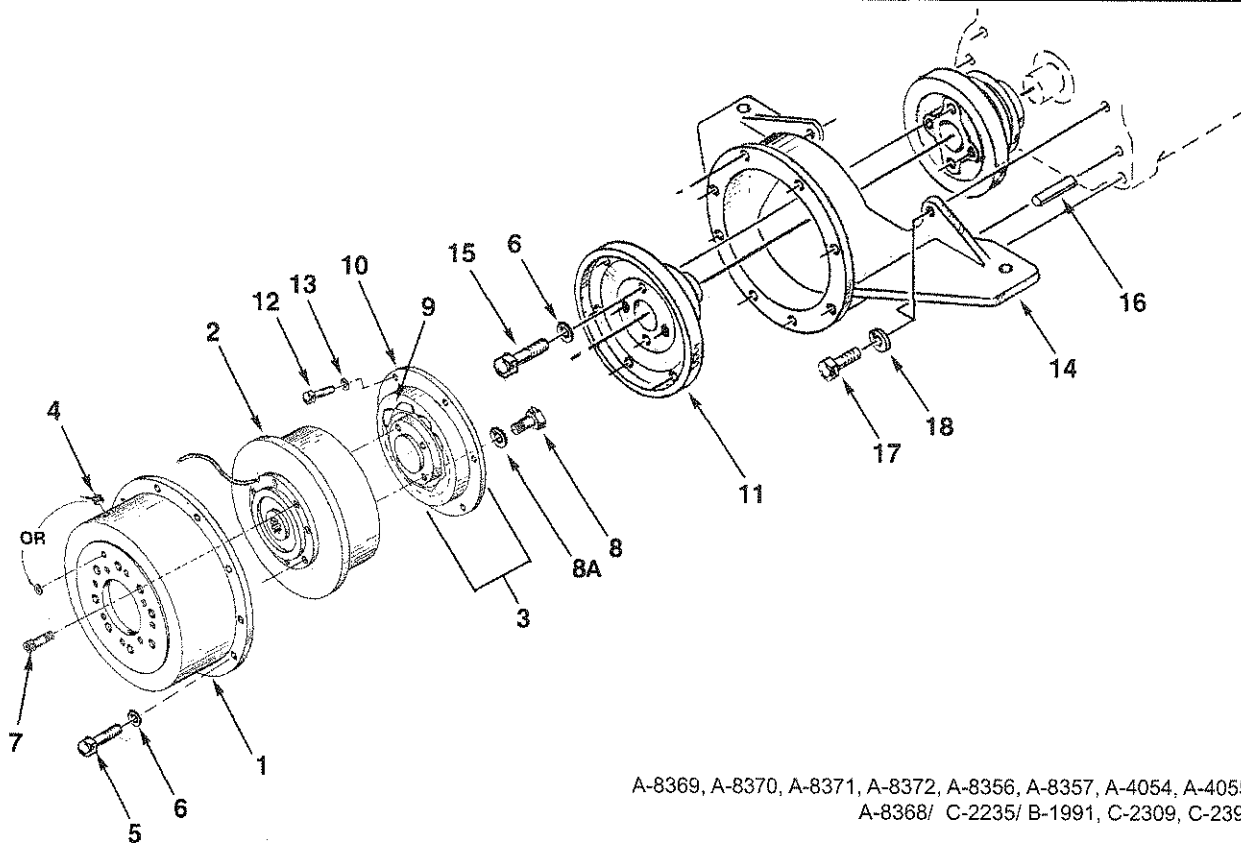
**12 & 24 Volt Governor Actuator & Mounting**



A-8351/ B-6373

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

**Electric Clutch and PTO Assembly LP-MP445 & C Series**



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

KEY	PART NUMBER	QTY	DESCRIPTION	SERIAL NUMBER
1	10-60004	1	Housing, B-Pad	-
	10-60003	1	Housing, C-Pad	-
2	34-60020	1	Electric Clutch, H-36 B-Spline 12 Volt	-
	34-60018	1	Electric Clutch, H-36 C-Spline 12 Volt	-
	34-60028	1	Electric Clutch, H-36 B-Spline 24 Volt	-
	34-60027	1	Electric Clutch, H-36 C-Spline 24 Volt	-
3	34-61455	1	Drive Assembly (includes keys 9 & 10)	-
4	00-61003	1	Grommet	-
5	12-20312	8	Capscrew, Hex Head, 3/8 -16 x 1 -1/4"	-
6	15-00321	12	Flat Washer, 3/8 SAE	-
7	12-00035	8	Capscrew, Socket Head, 3/8 -16 x 3/4"	-
8	12-60001	4	Capscrew, Hex Head, 7/16 -20 x 1 -3/4"	-
8a	15-00404	4	Flat Washer SAE 7/16	-
9	00-61001	**	Drive Block	-
10	34-60053	1	Drive Ring	-
	34-60054	1	Drive Spider	-
	34-60056	1	Drive Hub	-
11	34-69401	1	PTO Carrier, SAE #8	-
12	12-00312	6	Capscrew, Hex Head, 3/8 -16 x 1"	-
13	15-00301	6	Flat Washer, 3/8	-
14	23-71001	1	Bracket, SAE #5	-
15	12-00314	4	Capscrew, Hex Head, 3/8 -16 x 1-1/2"	-
16	32-81001	2	Dowel Pin, .625 x 1.5"	-
17	12-04803	4	Capscrew, Hex Head M16 x 2.0 x 40 mm	-
18	15-01000	4	Lock Washer, Helical M16	-
			**As required	