

PARTS LIST

MARINE DIESEL ENGINE

44A

44B

MARINE DIESEL GENERATORS

12.5 BTDB-60 Hz 9.4 BTDB-50 Hz

15.0 BTDC-60 Hz 12.0 BTDC-50 Hz

PUBLICATION NO. 047631

1ST Edition

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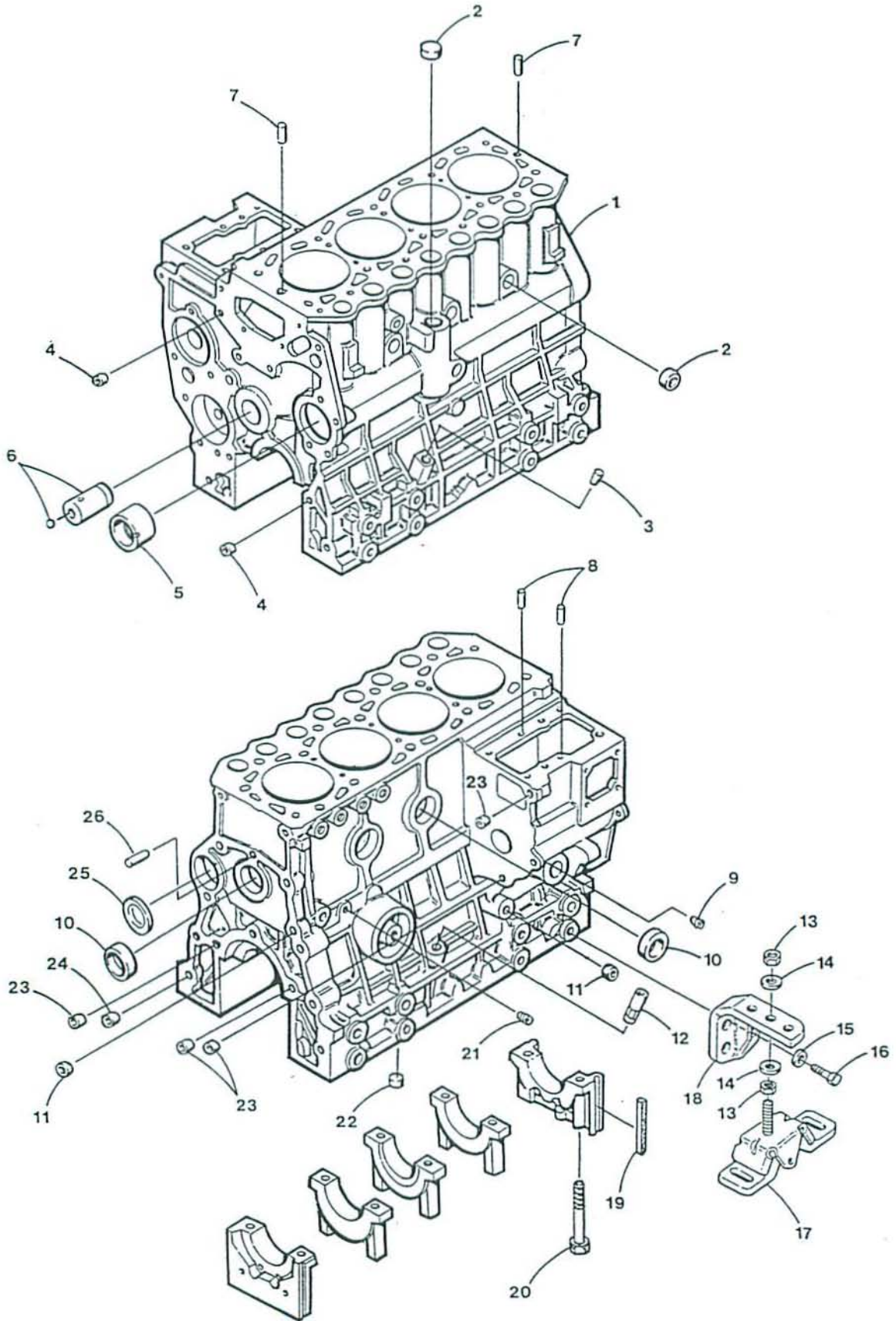
**44A/B PROPULSION DIESEL ENGINE
12.5 BTDB/15.0 BTDC 60 HZ DIESEL GENERATORS
9.4 BTDB/12.0 BTDC 50 HZ DIESEL GENERATORS**

Model	Model Type	KW	Fuel	Frequency
9.4 BTDB	Generator		Diesel	50 Hz
12.0 BTDC	Generator		Diesel	50 Hz
12.5 BTDB	Generator		Diesel	60 Hz
44A	Propulsion		Diesel	
15.0 BTDC	Generator		Diesel	60 Hz
44B	Propulsion		Diesel	

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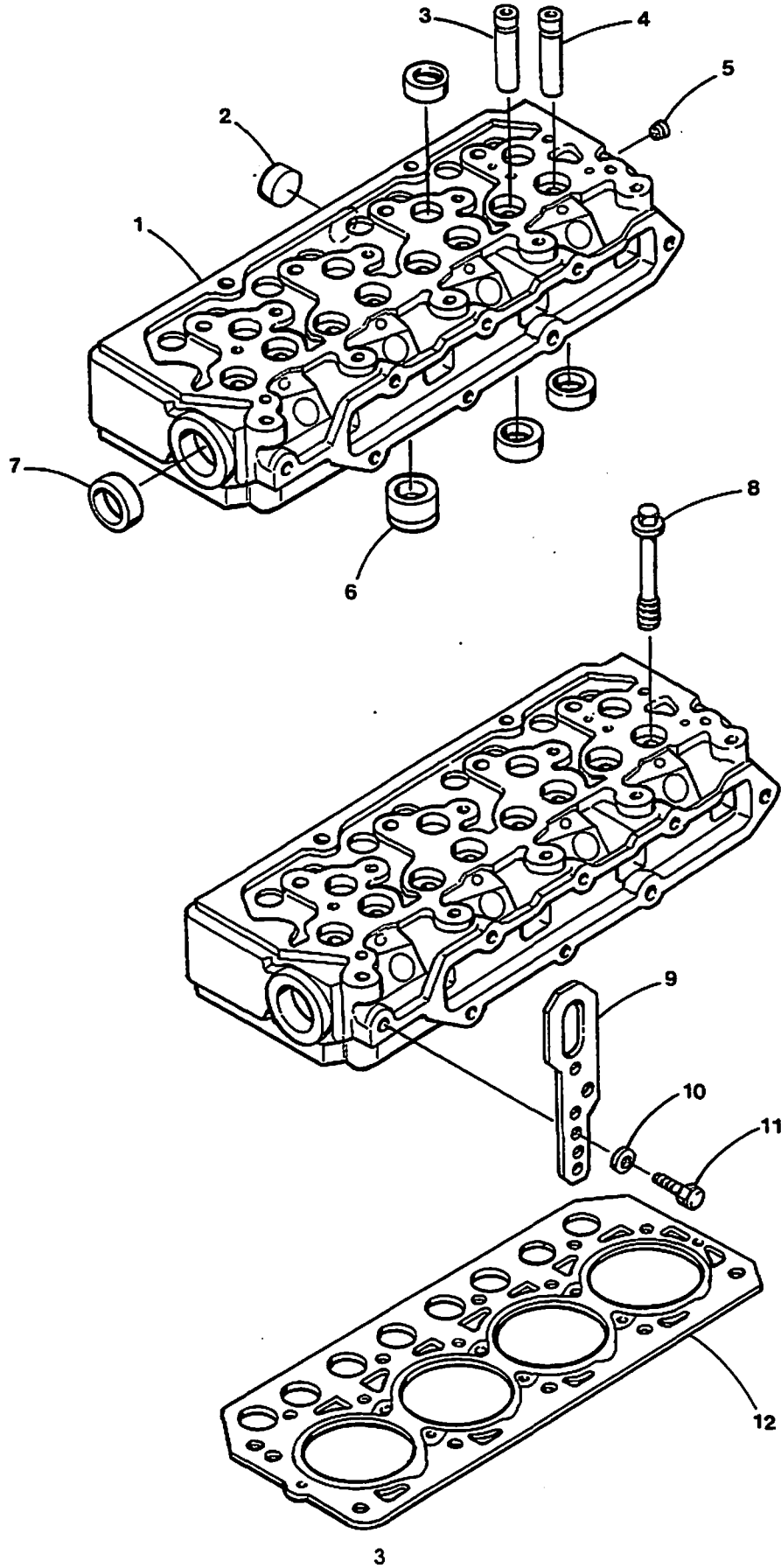
CYLINDER BLOCK & CRANKCASE ASSEMBLY 44A/B - 12.5 - 15.0



CYLINDER BLOCK & CRANKCASE ASSEMBLY 44A/B - 12.5 - 15.0

Reference #	Part #	Part Name	Remarks	Quantity
1-1	047895	ENGINE	BLOCK ASSEMBLY - 44B	1
1-2	044086	ENGINE	BLOCK ASSEMBLY - 12.5 BTDB/15.0 BTDC	1
2	037653	PLUG	EXPANSION 22MM DIN 443	4
3	045396	PLUG	TAPER	1
4	030707	DOWEL	TUBULAR 8 X 13	2
5	045193	BUSHING	CAMSHAFT	1
6	045213	SHAFT	IDLER GEAR	1
7	045394	DOWEL		2
8	036943	DOWEL		2
9	030711	PLUG	1/8 BSPT - PROP ONLY	1
10	024349	PLUG	EXPANSION 35MM DIN 443	3
11	045397	PLUG	EXPANSION 14MM DIN 443	3
12	046909	TUBE	DIPSTICK	1
13	040966	NUT	JAM M16 SELF-LOCKING	2
14	031828	WASHER	FLAT 5/8	2
15	031792	LOCKWASHER	M12 DIN 127	8
16	032014	CAPSCREW	M12	4
17-1	040510	ISOLATOR	FRONT PROPULSION	2
17-2	040511	ISOLATOR	REAR PROPULSION	2
18-1	042030	MOUNT	REAR LEFT PROPULSION	1
18-2	042032	MOUNT	REAR RIGHT PROPULSION	1
18-3	042235	MOUNT	FRONT PROPULSION	2
19	045197	SEAL	SIDE	4
20	045191	BOLT	MAIN BEARING CAP	10
21	030711	PLUG	1/8 BSPT	1
22	033625	PLUG	EXPANSION 12MM DIN 443	1
23	030706	DOWEL	TUBULAR	4
24	030709	DOWEL	TUBULAR	1
25	030286	PLUG	EXPANSION 40MM DIN 470	1
26	030272	DOWEL		1

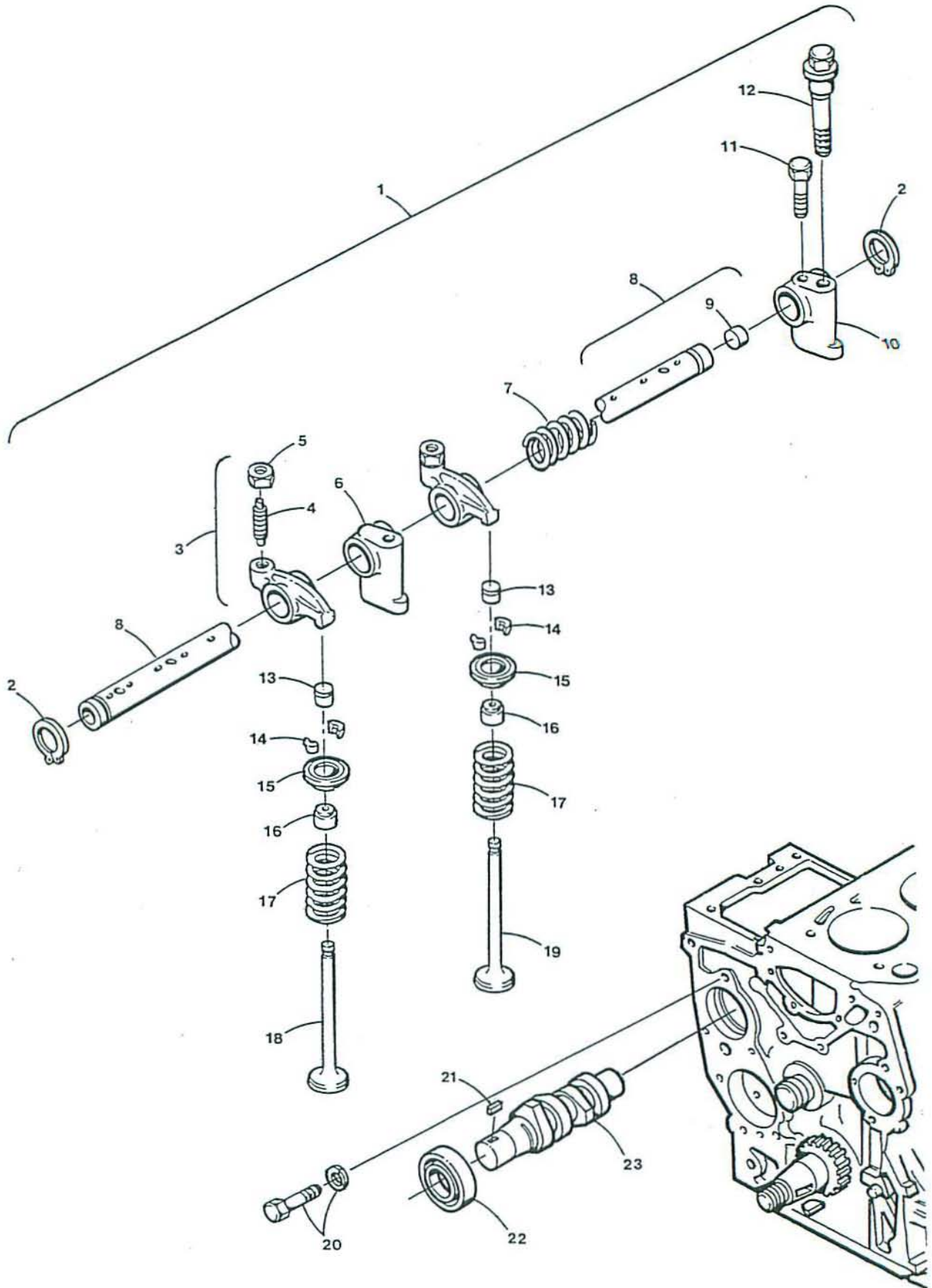
CYLINDER HEAD - 44A/B - 12.5 BTDB- 15.0 BTDC



CYLINDER HEAD - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	047126	HEAD	CYLINDER - GENSET	1
1-2	045176	HEAD	CYLINDER - PROP	1
2	024373	PLUG	EXPANSION 25MM	7
3	045173	GUIDE	VALVE EXHAUST	4
4	045174	GUIDE	VALVE INTAKE	4
5	030711	PLUG	1/8 BSPT	1
6-1	045178	INSERT	COMBUSTION - PROP	4
6-2	047127	INSERT	COMBUSTION - GENSET	4
7	024349	PLUG	EXPANSION 35MM DIN 443	1
8	045175	BOLT	CYLINDER HEAD	14
9-1	030131	EYE	LIFTING - PROP	1
9-2	030131	EYE	LIFTING - GENSET	2
10-1	019262	LOCKWASHER	M10 DIN 127 - PROP	2
10-2	019262	LOCKWASHER	M10 DIN 127 - GENSET	4
11-1	024951	CAPSCREW	M10 X 1.25 X 20 DIN 961 - PROP	2
11-2	024951	CAPSCREW	M10 X 1.25 X 20 DIN 961 - GENSET	4
12	045177	GASKET	CYLINDER HEAD	1

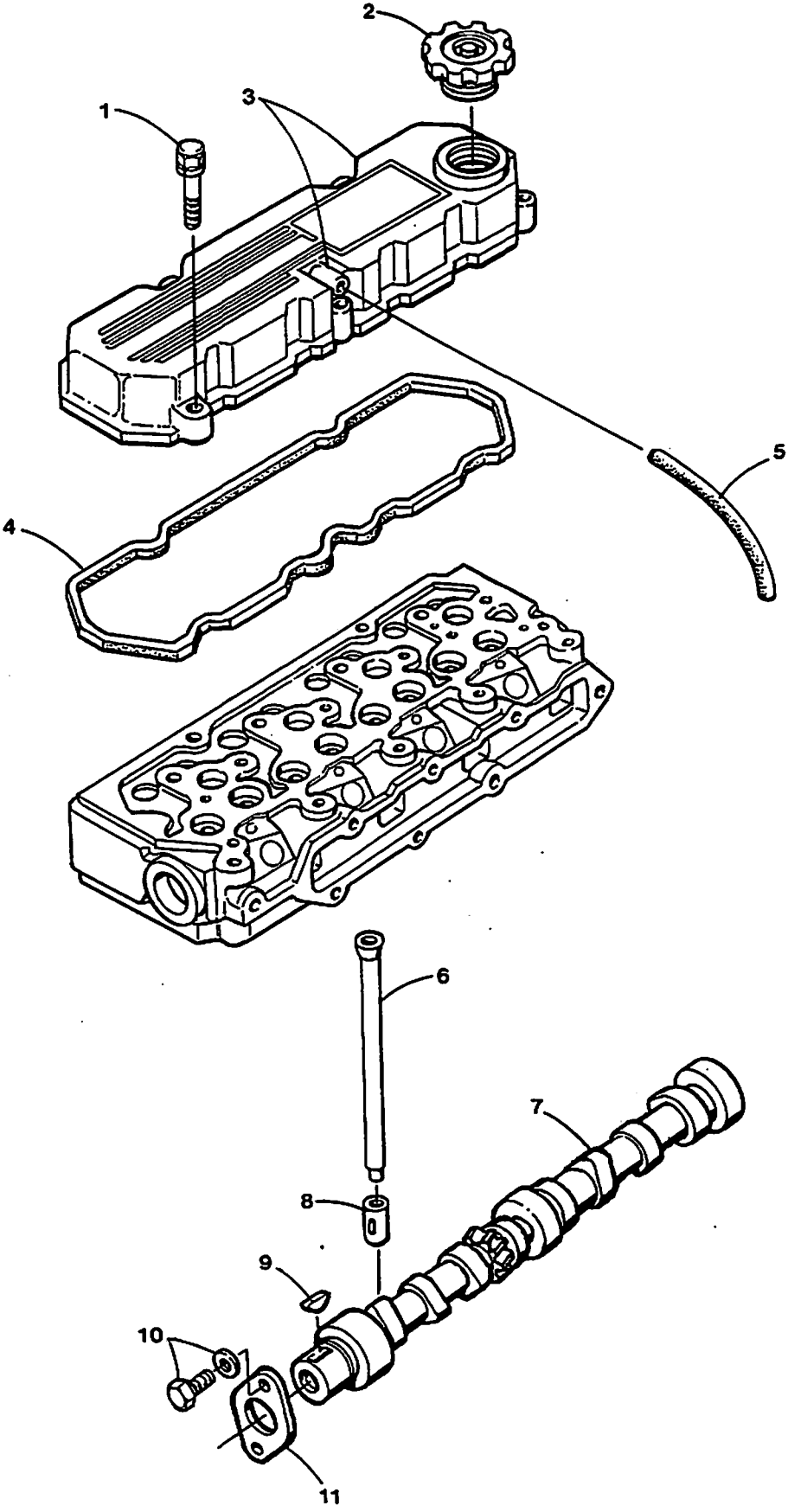
VALVE MECHANISM - 44A/B - 12.5 BTDB- 15.0 BTDC



VALVE MECHANISM - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	045186	SHAFT	ROCKER	1
2	030279	RING	RETAINING	2
3	045183	ROCKER		8
4	045270	SCREW	ROCKER ADJUST	8
5	031802	NUT	M8 DIN 936 JAM	8
6	045277	BRACKET	ROCKER SHAFT	3
7	045273	SPRING	ROCKER SHAFT	3
8	045185	SHAFT	ROCKER	1
9	045170	PLUG	EXPANSION	1
10	045188	BRACKET	ROCKER	1
11	039336	CAPSCREW	M5 X 12 DIN 933	1
12	045274	BOLT	ROCKER BRACKET	4
13	045181	CAP	VALVE	8
14	030241	COLLET	VALVE	16
15	033149	SEAT	VALVE SPRING	8
16	030242	SEAL	VALVE STEM	8
17	045182	SPRING	VALVE	8
18-1	047128	VALVE	EXHAUST - GENSET	4
18-2	045180	VALVE	EXHAUST - PROP	4
19-1	047129	VALVE	INTAKE - GENSET	4
19-2	045179	VALVE	INTAKE - PROP	4
20	035792	CAPSCREW	M8 X 16 JIS 6 W/LW	1
21	030273	KEY	5 X 12	1
22	030434	BEARING	BALL	1
23	045264	CAMSHAFT	INJECTION PUMP	1

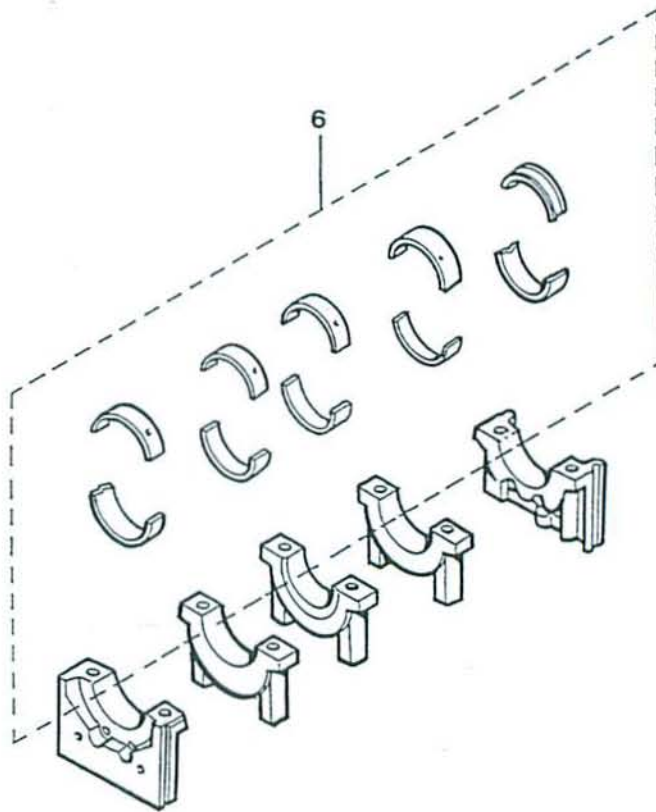
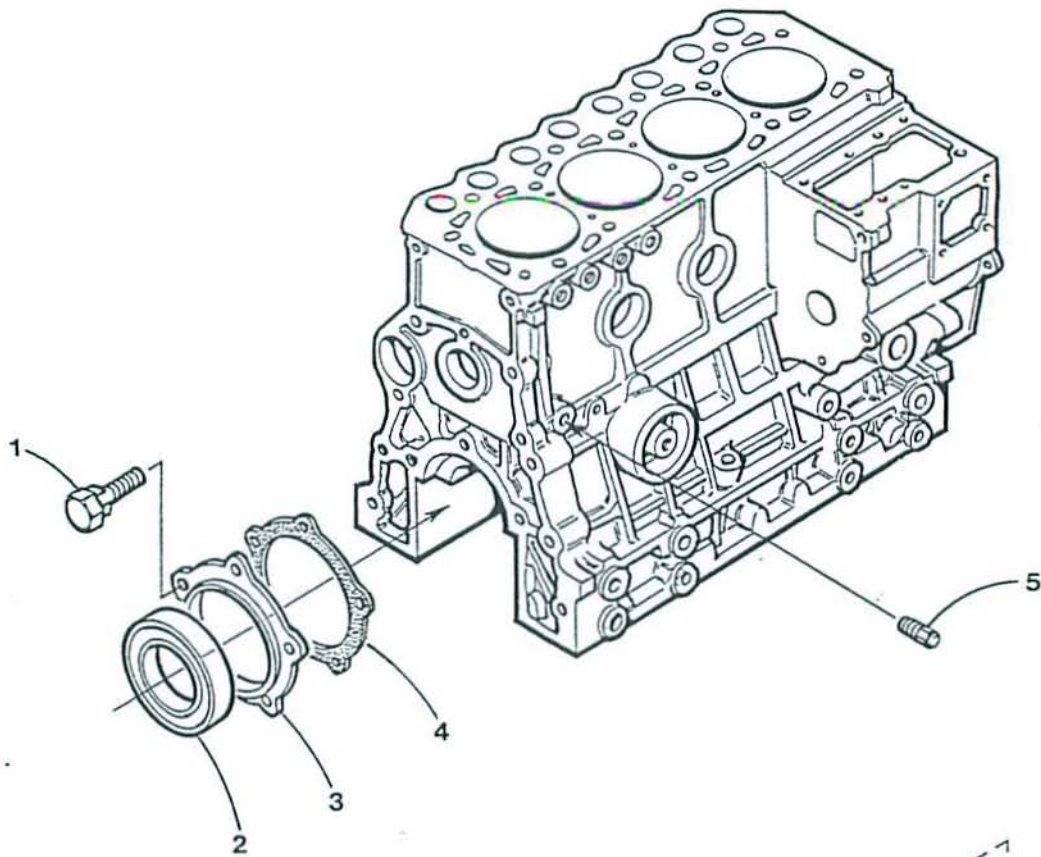
ROCKER COVER & CAMSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC



ROCKER COVER & CAMSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	035796	CAPSCREW	M8 X 40 JIS 6 W/LW	5
2	030237	CAP	OIL FILL TOP	1
3	045184	COVER	ROCKER	1
4	045187	GASKET	ROCKER COVER	1
5	036045	HOSE	BREATHER - INCHES REQ.	6
6	045190	PUSHROD		8
7	045189	CAMSHAFT		1
8	030361	TAPPET		8
9	030275	KEY	WOODRUFF	1
10	035792	CAPSCREW	M8 X 16 JIS 6 W/LW	2
11	034265	PLATE	CAMSHAFT THRUST	1

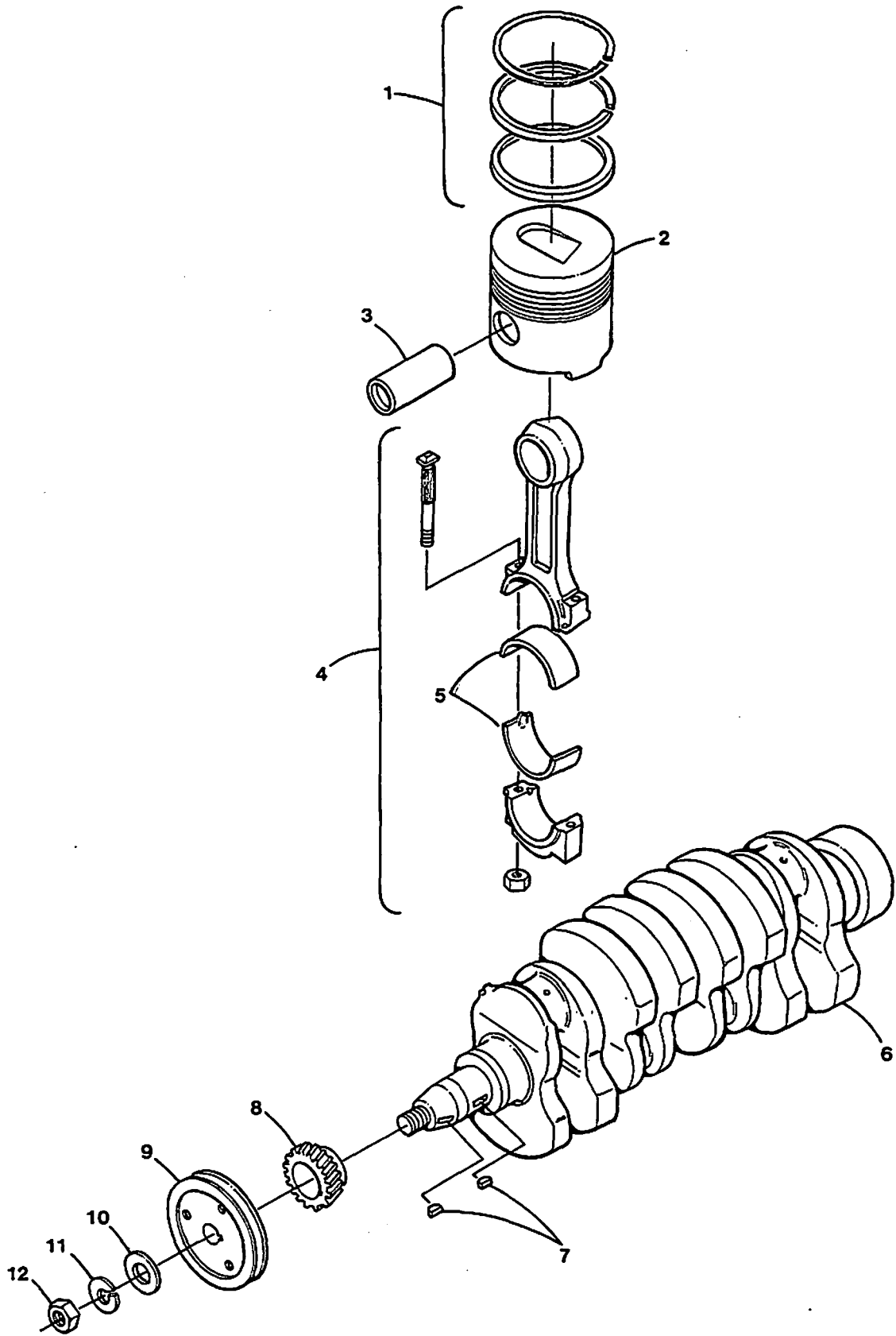
CRANKCASE - 44A/B - 12.5 BTDB- 15.0 BTDC



CRANKCASE - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	017196	CAPSCREW	M8 X 20 DIN 933	5
2	030395	SEAL	OIL	1
3	045194	FLANGE	REAR OIL SEAL	1
4	045195	GASKET	OIL SEAL FLANGE	1
5	045395	PLUG	1/4 BSPT HEX HEAD GENSET	1
6-1	037672	BEARING	SET MAIN STD	1
6-2	030484	BEARING	SET MAIN 0.25	1
6-3	037678	BEARING	SET MAIN 0.50	1
6-4	037679	BEARING	SET MAIN 0.75	1

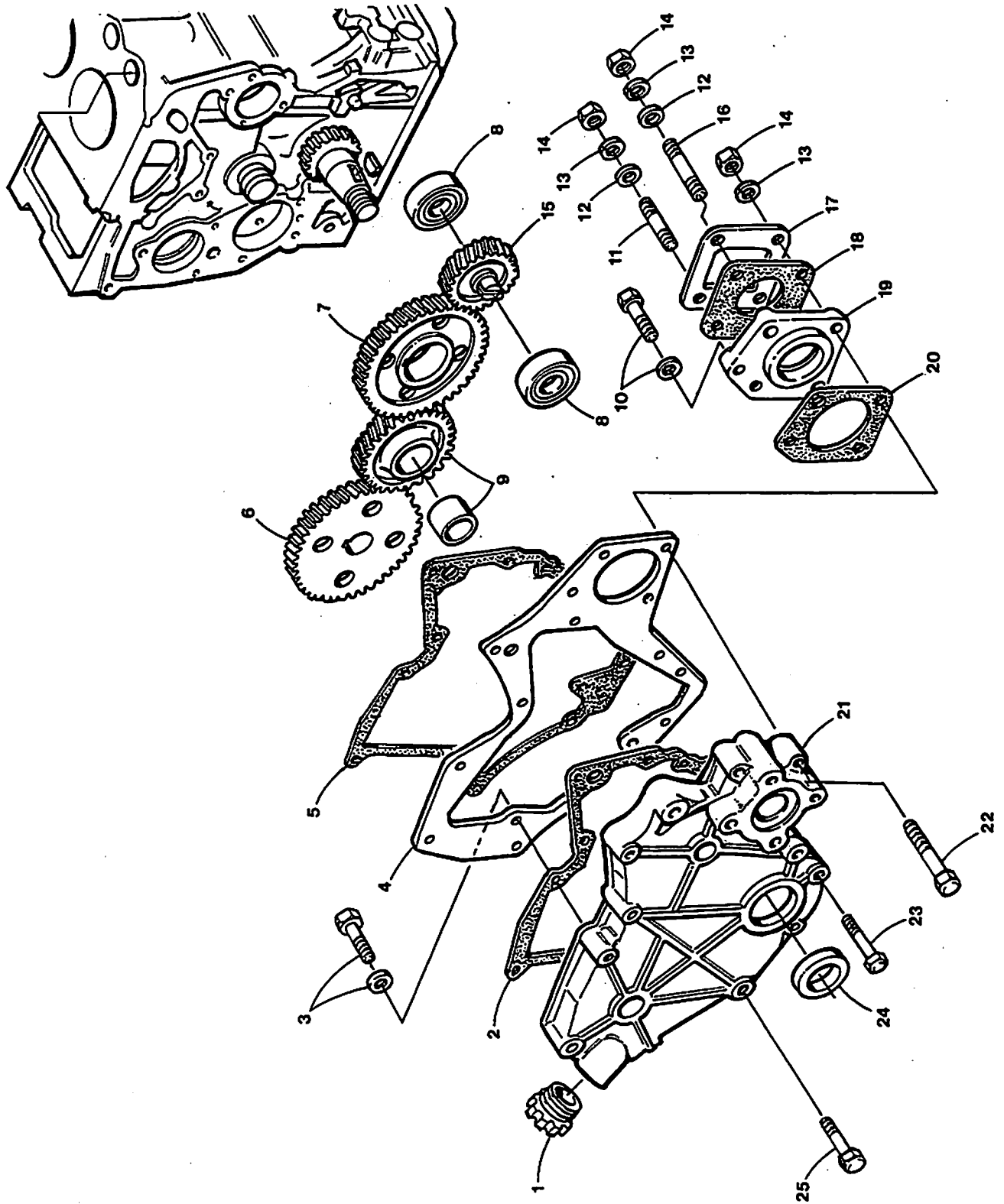
PISTONS & CRANKSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC



PISTONS & CRANKSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	045204	RING SET	STD - PROP	4
1-2	045205	RING SET	0.25 - PROP	4
1-3	045206	RING SET	0.50 - PROP	4
1-4	046911	RING SET	STD - GENSET	4
1-5	046912	RING SET	0.25 - GENSET	4
1-6	046913	RING SET	0.50 - GENSET	4
2-1	045207	PISTON	STD - PROP	4
2-2	045208	PISTON	0.25 - PROP	4
2-3	045209	PISTON	0.50 - PROP	4
2-4	047131	PISTON	STD - GENSET	4
2-5	047132	PISTON	0.25 - GENSET	4
2-6	047133	PISTON	0.50 - GENSET	4
3	045210	PIN	PISTON	4
4	045211	ROD	CONNECTING	4
5-1	047012	BEARING SET	ROD - STD	1
5-2	045167	BEARING SET	ROD - 0.25	4
5-3	045168	BEARING SET	ROD - 0.50	4
5-4	045169	BEARING SET	ROD - 0.75	4
6	045212	CRANKSHAFT		1
7	030275	KEY	WOODRUFF	2
8	045216	GEAR	CRANKSHAFT	1
9	044632	PULLEY	CRANKSHAFT	1
10	032175	WASHER	FLAT M18	1
11	032176	LOCKWASHER	M18	1
12	032172	NUT	M18	1

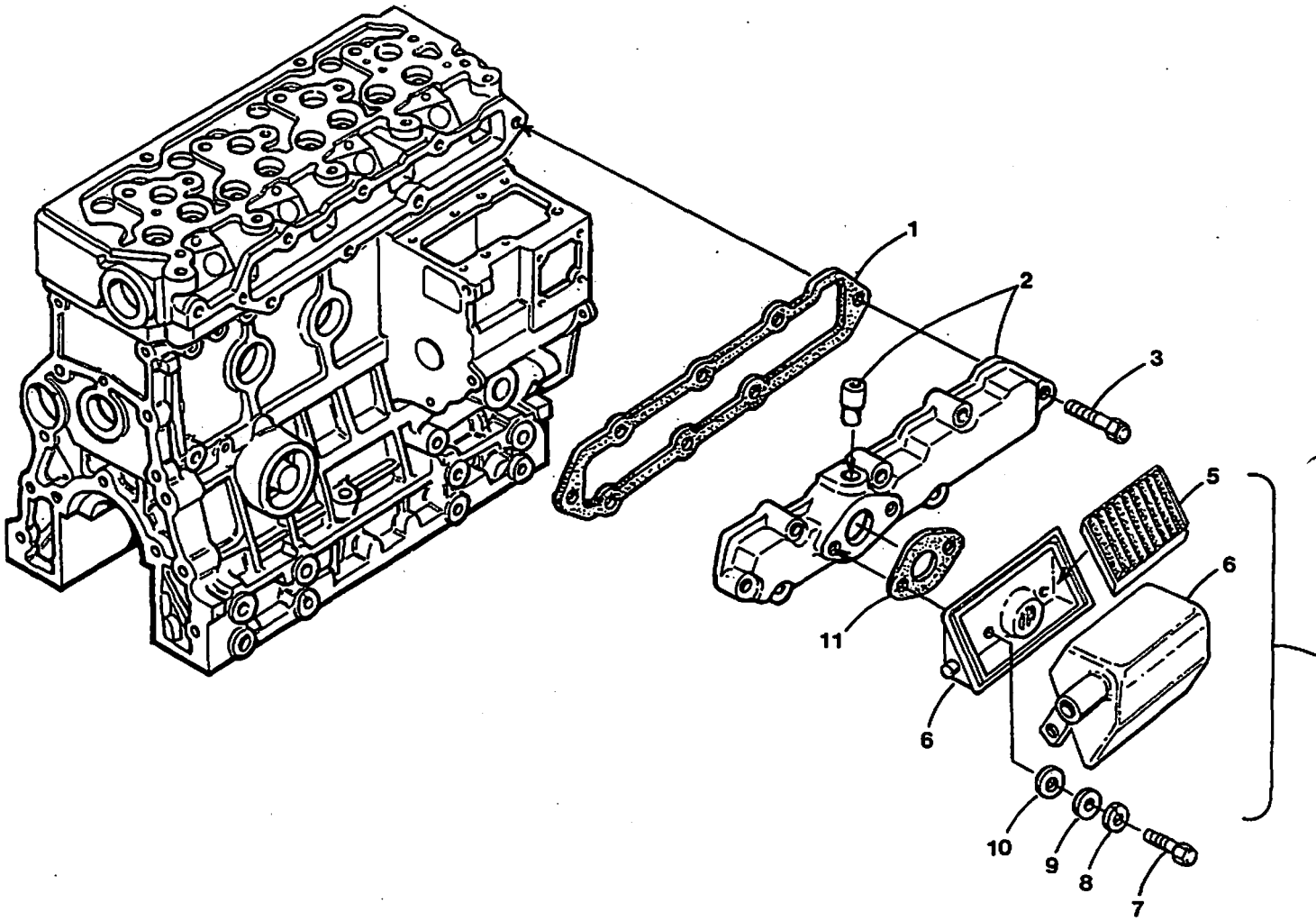
TIMING GEAR CASE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



TIMING GEAR CASE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	041487	CAP	OIL FILLER - PUSH IN	1
2	045202	GASKET	TIMING CASE TO PLATE	1
3	035792	CAPSCREW	M8 X 16 JIS 6 W/LW	5
4	045198	PLATE	FRONT	1
5	045196	GASKET	FRONT PLATE	1
6	045214	GEAR	INJECTION PUMP DRIVE	1
7	045217	GEAR	CAMSHAFT	1
8	030198	BEARING	BALL	2
9	045215	GEAR	IDLER WITH BUSHING	1
10	035794	CAPSCREW	M8 X 30 JIS 6 W/LW	1
11	015828	STUD	M8 X 22 DIN 939	1
12	031787	WASHER	M8 DIN 125	4
13	031786	LOCKWASHER	M8 DIN 127	4
14	018242	NUT	M8 DIN 934	4
15	045218	GEAR	OIL PUMP DRIVE	1
16	031281	STUD	M8 X 40 DIN 939	1
17	030203	COVER	OIL PUMP	1
18	030326	GASKET	OIL PUMP COVER	1
19	045199	HOUSING	BEARING-OIL PUMP GEAR	1
20	045200	GASKET	BEARING HOUSING	1
21	045201	CASE	TIMING	1
22	299981	CAPSCREW	M8 X 70 JIS	2
23	035792	CAPSCREW	M8 X 16 JIS 6 W/LW	4
24	030209	SEAL	OIL	1
25	024948	CAPSCREW	M8 X 45 DIN 931	8

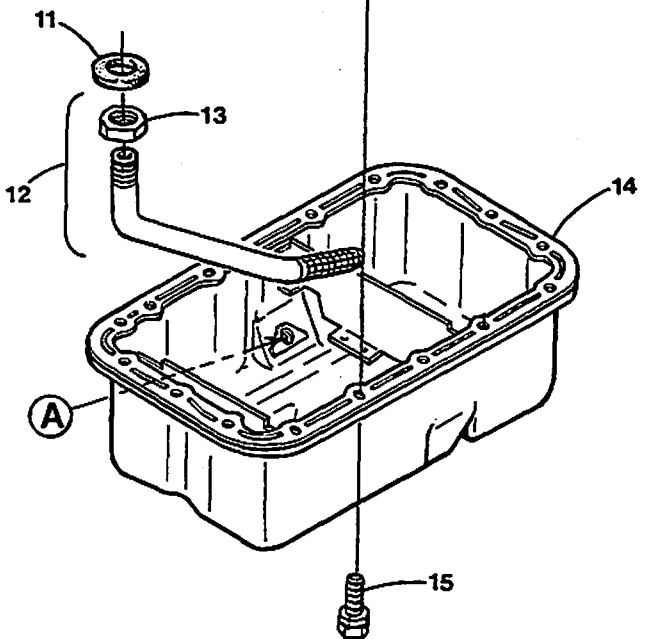
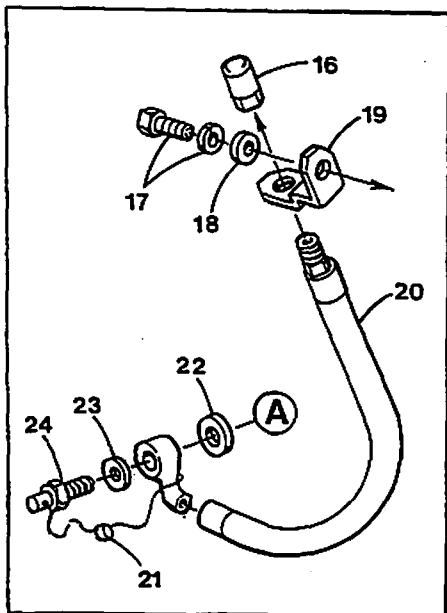
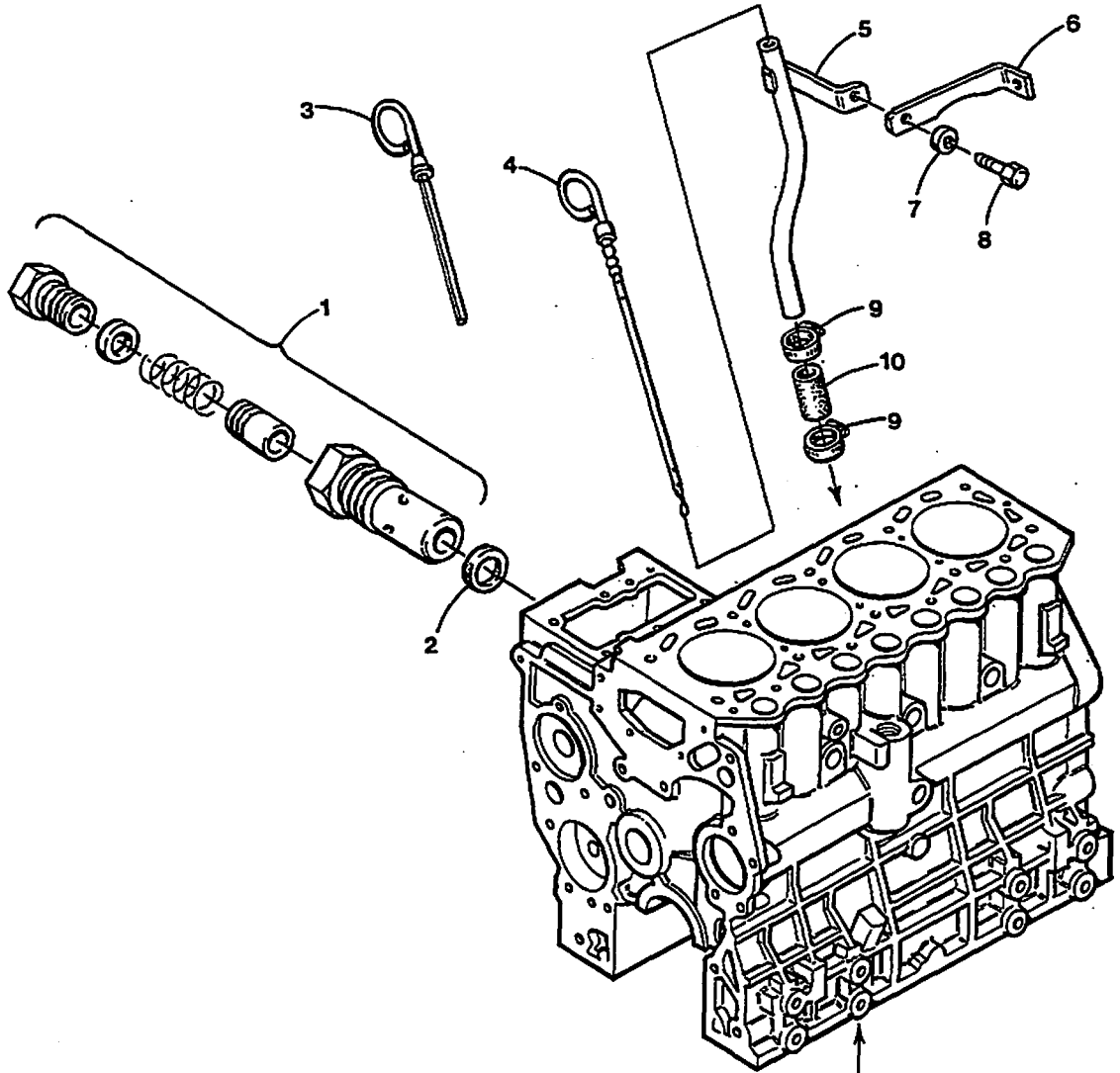
INLET MANIFOLD & AIR INTAKE SILENCER - 44A/B - 12.5 - 15.0



INLET MANIFOLD & AIR INTAKE SILENCER - 44A/B - 12.5 - 15.0

Reference #	Part #	Part Name	Remarks	Quantity
1	045220	GASKET	INTAKE MANIFOLD	1
2	045221	MANIFOLD	INTAKE	1
3	035795	CAPSCREW	M 8 X 35 JIS INCL LOCKWASHER	8
4	043823	HOUSING	AIR FILTER INCL REF #S 5 & 6	1
5	039705	FILTER	AIR	1
6	044723	HOUSING	AIR INTAKE INCL COVER	1
7	017196	CAPSCREW	M8 X 20 DIN 933	2
8	031786	LOCKWASHER	M8 DIN 127	2
9	031787	WASHER	M8 DIN 125	2
10	043882	WASHER	SILENCER ANTI-CRUSH	2
11	044324	GASKET	AIR FILTER TO MANIFOLD	1

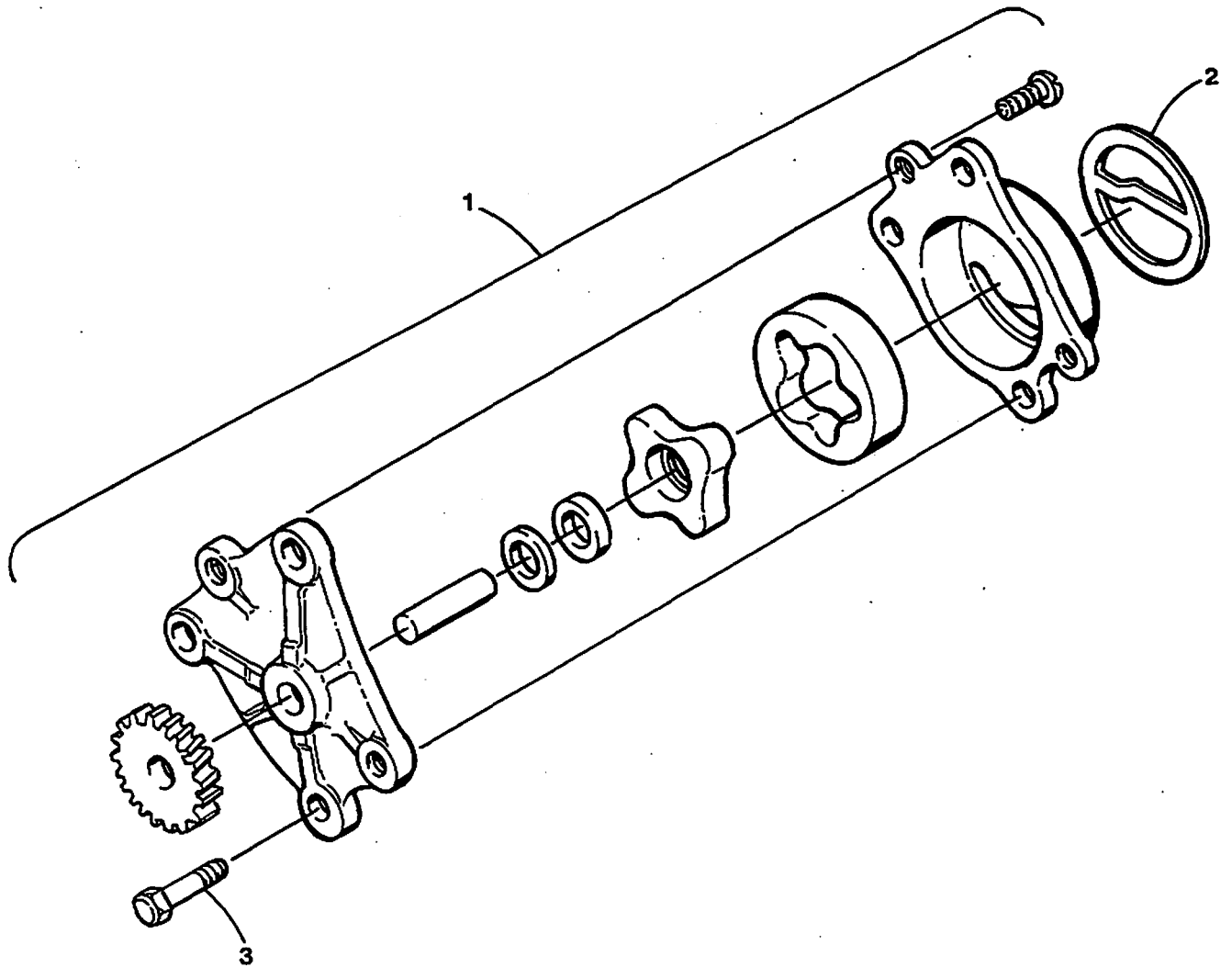
OIL SYSTEM - 44A/B - 12.5 BTDB- 15.0 BTDC



OIL SYSTEM - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	045225	VALVE	OIL RELIEF	1
2	046908	GASKET	OIL RELIEF VALVE	1
3	045230	DIPSTICK		1
4	044068	DIPSTICK	KIT - OPTIONAL 44A/B	1
5	044104	TUBE	DIPSTICK - OPTIONAL EXTENDED	1
6	044074	BRACKET	LIFT PUMP & FILTER SUPPORT	1
7	019262	LOCKWASHER	M10 DIN 127	1
8	024952	CAPSCREW	M10 X 1.25 X 25 DIN 961	1
9	024906	CLAMP	HOSE 04 MINI	2
10	036045	HOSE	INCHES REQUIRED	2
11	033280	WASHER	OIL PICKUP	1
12	033283	STRAINER	OIL PICKUP	1
13	040966	NUT	M16 JAM SELF-LOCKING	1
14-1	045203	SUMP	OIL - PROP	1
14-2	047130	SUMP	OIL - GENSET	1
15	035792	CAPSCREW	M8 X 16 JIS 6 W/LW	17
16	024905	CAP	1/4 NPT BRASS	1
17	035792	CAPSCREW	M8 X 16 JIS 6 W/LW	1
18	031787	WASHER	M8 DIN 125	1
19	024922	BRACKET	SUMP DRAIN HOSE	1
20	043904	HOSE	SUMP DRAIN	1
21	037393	SEAL	LEAD WIRE	1
22	030291	WASHER	BANJO M14	1
23	036493	WASHER	BANJO	1
24	036821	BOLT	BANJO-SUMP DRAIN HOSE	1

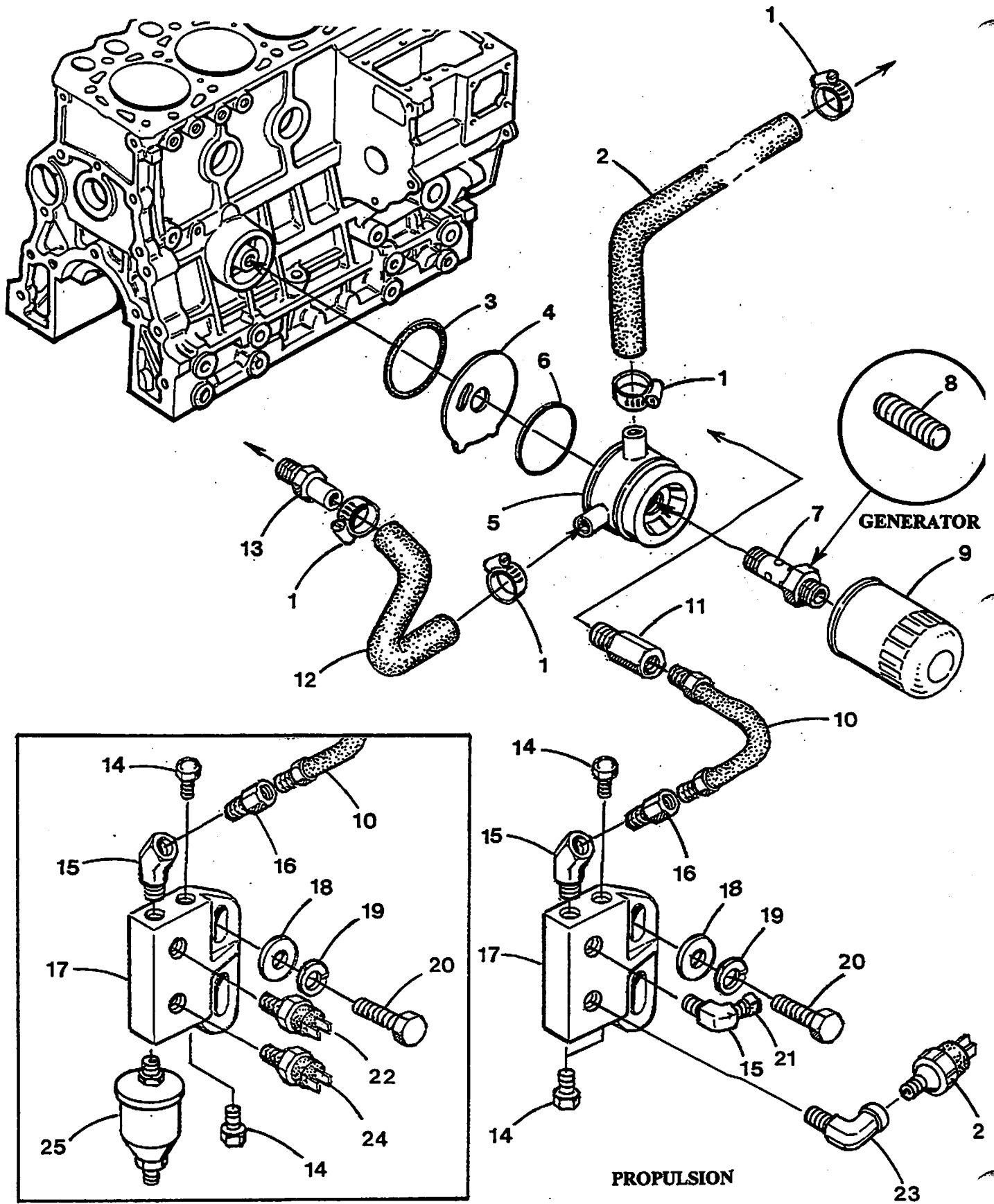
OIL PUMP - 44A/B - 12.5 BTDB- 15.0 BTDC



OIL PUMP - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	045224	PUMP	OIL	1
2	045223	GASKET	OIL PUMP	1
3	299527	CAPSCREW	M8 X 22 JIS	3

OIL COOLER ASSEMBLY & FILTER - 44A/B - 12.5 BTDB - 15.0 BTDC



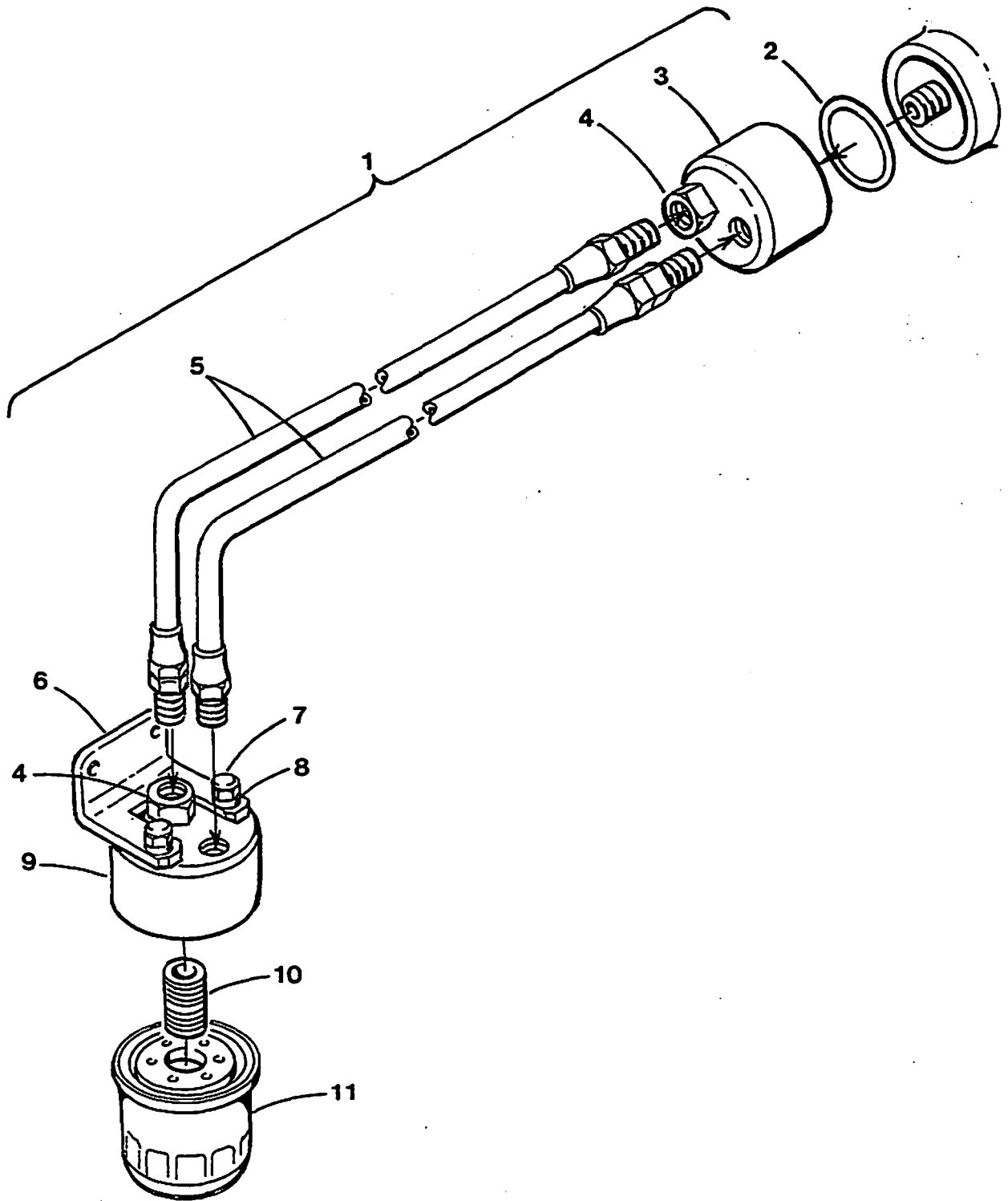
GENERATOR

PROPULSION

OIL COOLER ASSEMBLY & FILTER - 44A/B - 12.5 BTDB - 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	017298	CLAMP	HOSE	4
2	046919	HOSE	OIL COOLER TO FRESH WATER PUMP	1
3	046297	O-RING	OIL COOLER	1
4	045677	SPACER	OIL COOLER	1
5	046295	COOLER	OIL HOUSING-INCL REF #6	1
6	045275	O-RING	OIL COOLER	1
7	046296	BOLT	OIL COOLER	1
8	047123	NIPPLE	OIL FILTER - GENSET	1
9	036918	FILTER	LUBE OIL	1
10	040907	HOSE	OIL	1
11	024844	ADAPTER	1/8 BSPT TO 1/8NPT	1
12	045269	HOSE	BLOCK TO OIL COOLER	1
13	045228	CONNECTOR	HOSE TO BLOCK	1
14	019369	PLUG	1/8NPT HEX HEAD BRASS	4
15	015122	ELBOW	1/8NPT45 DEG STREET STEEL	3
16	015289	ADAPTER		1
17	043902	HEADER	OIL SENDER AND SWITCH	1
18	031793	WASHER	M12 DIN 125	2
19	031792	LOCKWASHER	M12 DIN 127	2
20	024959	CAPSCREW	M12 X 1.25 X 25 DIN 961	2
21	011615	PLUG	1/8NPT STEEL (WHEN SENDER NOT INSTALL)	1
22	011552	SWITCH	OIL PRESSURE - AUXILIARY	1
23	011984	ELBOW	1/8NPT 90 STREET	1
24	037323	SWITCH	OIL PRESSURE	1
25-1	024132	SENDER	OIL PRESSURE 100 PSI 12 VDC	1
25-2	042161	SENDER	OIL PRESSURE 80 PSI (OPT'L)	1
25-3	011916	SENDER	OIL PRESSURE 150 PSI UNGROUNDED (OPT'L)	1

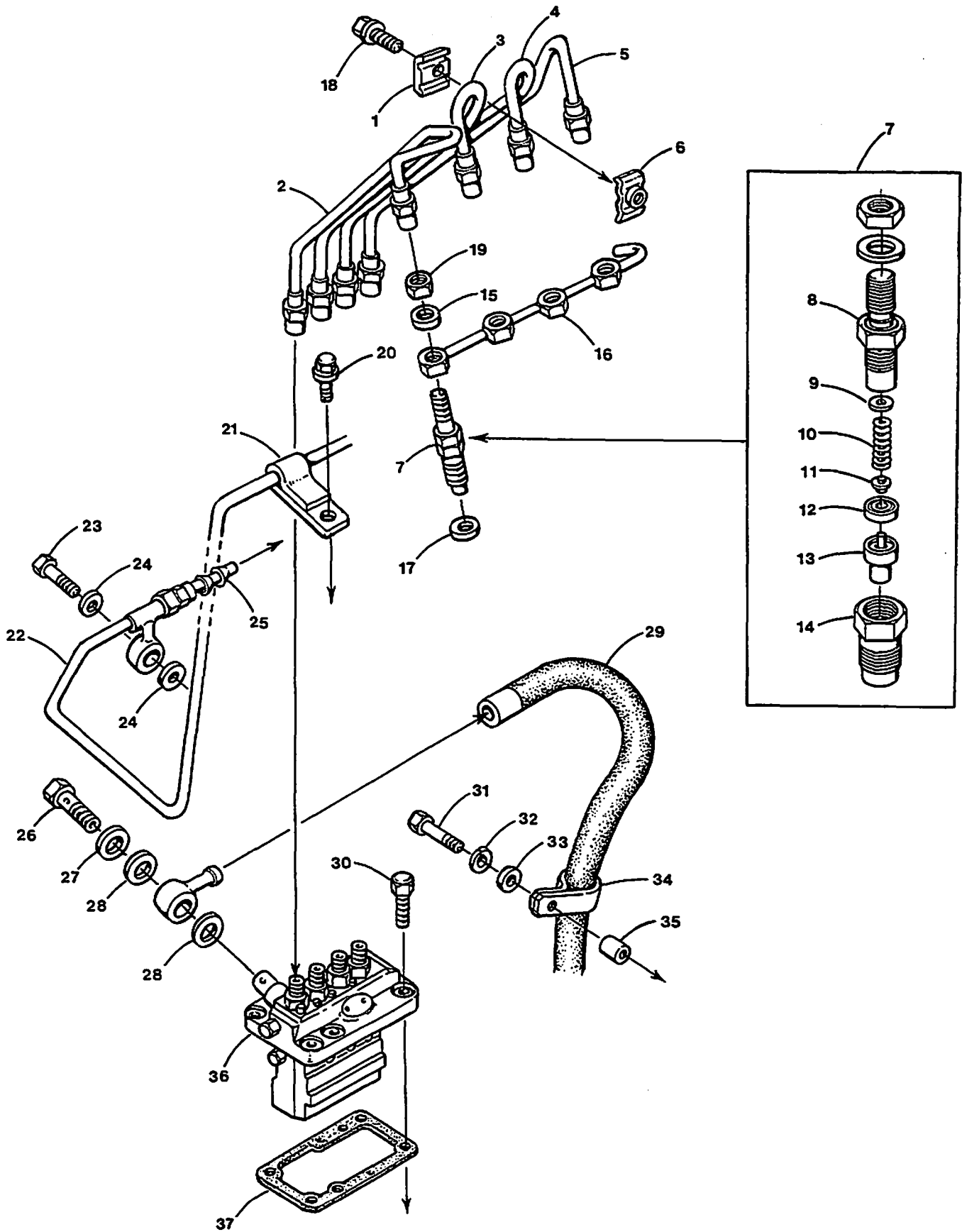
REMOTE LUBE OIL FILTER ASSY - 44A/B - 12.5 BTDB- 15.0 BTDC



REMOTE LUBE OIL FILTER ASSY - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	040078	FILTER KIT	REMOTE LUBE OIL - INCL. REF #S 2 THRU 12	1
2	302842	O-RING		1
3	040075	ADAPTER	REMOTE OIL FILTER	1
4	013348	CONNECTOR	HOSE	2
5	011925	HOSE	OIL 40-1/4 INCHES LONG	2
6	040074	BRACKET	REMOTE OIL FILTER	1
7	031503	CAPSCREW	1/4 NC x 3/4	2
8	031752	LOCKWASHER	1/4	2
9	040073	ADAPTER	REMOTE OIL FILTER	1
10	034663	NIPPLE	OIL FILTER TO ADAPTER	1
11	036918	FILTER	LUBE OIL	1
12	040076	DGINSTALL	REMOTE OIL FILTER - NOT SHOWN	1

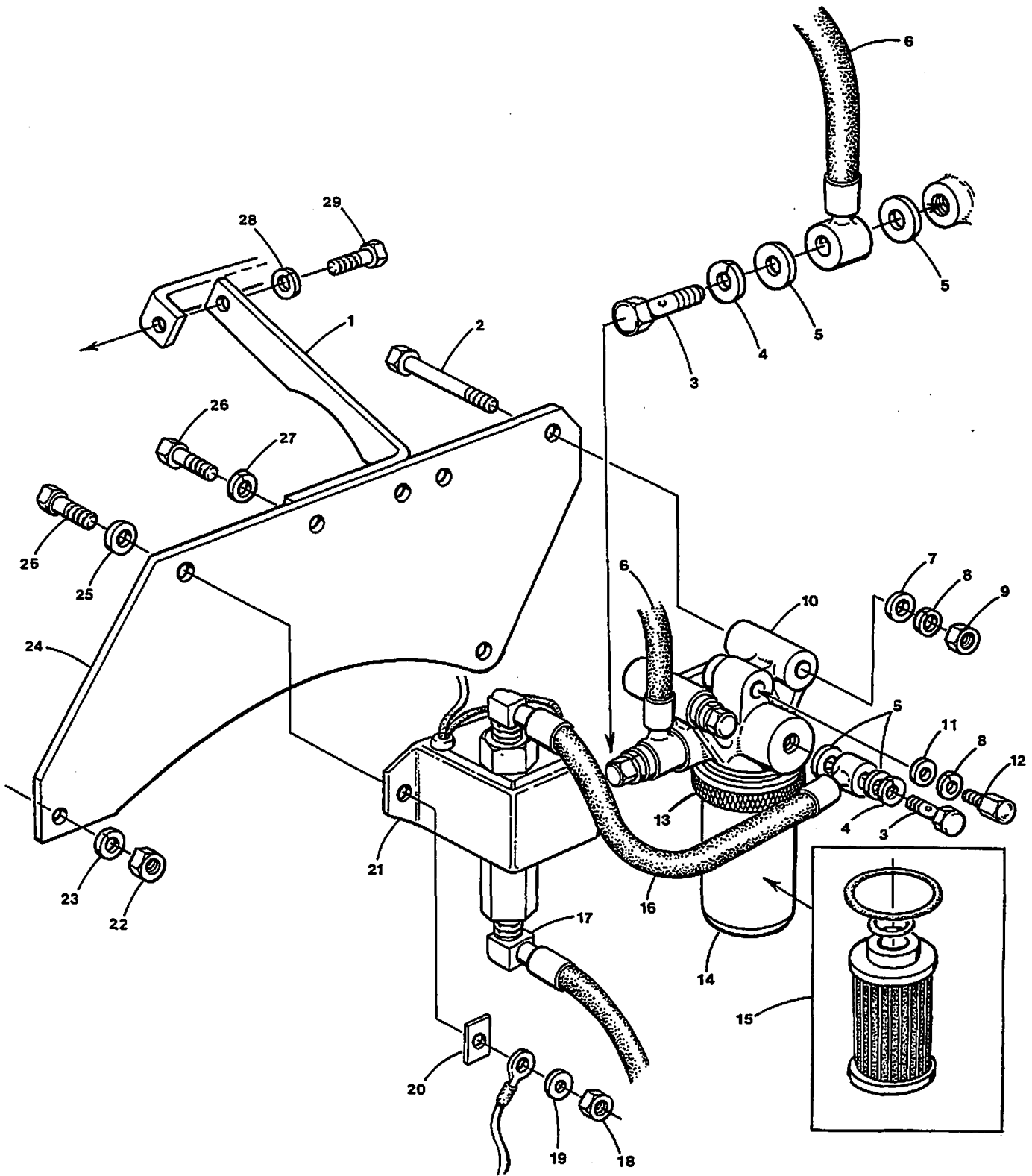
FUEL SYSTEM & NOZZLE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



FUEL SYSTEM & NOZZLE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	030315	CLAMP	FUEL LINE	3
2	045237	LINE	INJECTOR 1	1
3	045238	LINE	INJECTOR 2	1
4	045239	LINE	INJECTOR 3	1
5	045240	LINE	INJECTOR 4	1
6	046910	CLAMP	FUEL LINE	3
7	037091	INJECTOR	INCL REF 8 THRU 14	4
8	037112	HOLDER	INJECTOR	4
9-1	036925	SHIM	INJECTOR 1.25	1
9-2	036926	SHIM	INJECTOR 1.30	1
9-3	036927	SHIM	INJECTOR 1.35	1
9-4	036928	SHIM	INJECTOR 1.40	1
9-5	036929	SHIM	INJECTOR 1.45	1
9-6	036930	SHIM	INJECTOR 1.50	1
9-7	036931	SHIM	INJECTOR 1.55	1
9-8	036932	SHIM	INJECTOR 1.60	1
9-9	036933	SHIM	INJECTOR 1.65	1
9-10	036934	SHIM	INJECTOR 1.70	1
10	037106	SPRING	INJECTOR	4
11	037107	PIN	INJECTOR SPRING	4
12	037108	SPACER	INJECTOR	4
13	036935	NOZZLE	INJECTOR	4
14	037109	NUT	INJECTOR NOZZLE	4
15	036922	GASKET	INJECTOR RETURN	4
16	045241	LINE	INJECTOR LEAKOFF	1
17	038841	GASKET	INJECTOR TO HEAD	4
18	035810	CAPSCREW	M6 X 25 JIS 6 W/LW-FW	3
19	036921	NUT	INJECTOR	4
20	035796	CAPSCREW	M 8 X 40 JIS 6 W/LW	1
21	044069	STRAP	CLAMP FUEL RETURN LINE	1
22-1	044496	LINE	INJECTOR RETURN FROM FEB 2002	1
22-2	046417	LINE	INJECTOR RETURN 44A TO FEB 2002	1
23	016988	BOLT	BANJO M8	1
24	030289	WASHER	BANJO M8	2
25	034641	CONNECTOR	FUEL RETURN HOSE	1
26	024915	BOLT	BANJO	1
27	024972	WASHER	BANJO M14 ALUMINUM	1
28	030291	WASHER	BANJO M14	2
29-1	043881	HOSE	FILTER TO INJECTION PUMP - PROP	1
29-2	044214	HOSE	FILTER TO INJECTION PUMP - GENSET	1
30	017196	CAPSCREW	M8 X 20 DIN 933	6
31	013590	CAPSCREW	M6 X 30 DIN 933	1
32	031783	LOCKWASHER	M6 DIN 127	1
33	031753	WASHER	FLAT 1/4	1
34	021676	CLAMP	HARNESS SUPPORT	1
35	033052	SPACER	SOLENOID TO BRACKET	1
36-1	045265	PUMP	INJECTION - PROP	1
36-2	047144	PUMP	INJECTION - GENSET	1
37-1	030556	SHIM	0.7MM	1
37-2	030557	SHIM	0.8MM	1
37-3	030558	SHIM	0.9MM	1
37-4	030559	SHIM	1.0MM	1
37-5	030551	SHIM	0.2MM	1

FUEL LIFT PUMP & FUEL FILTER - 44A/B



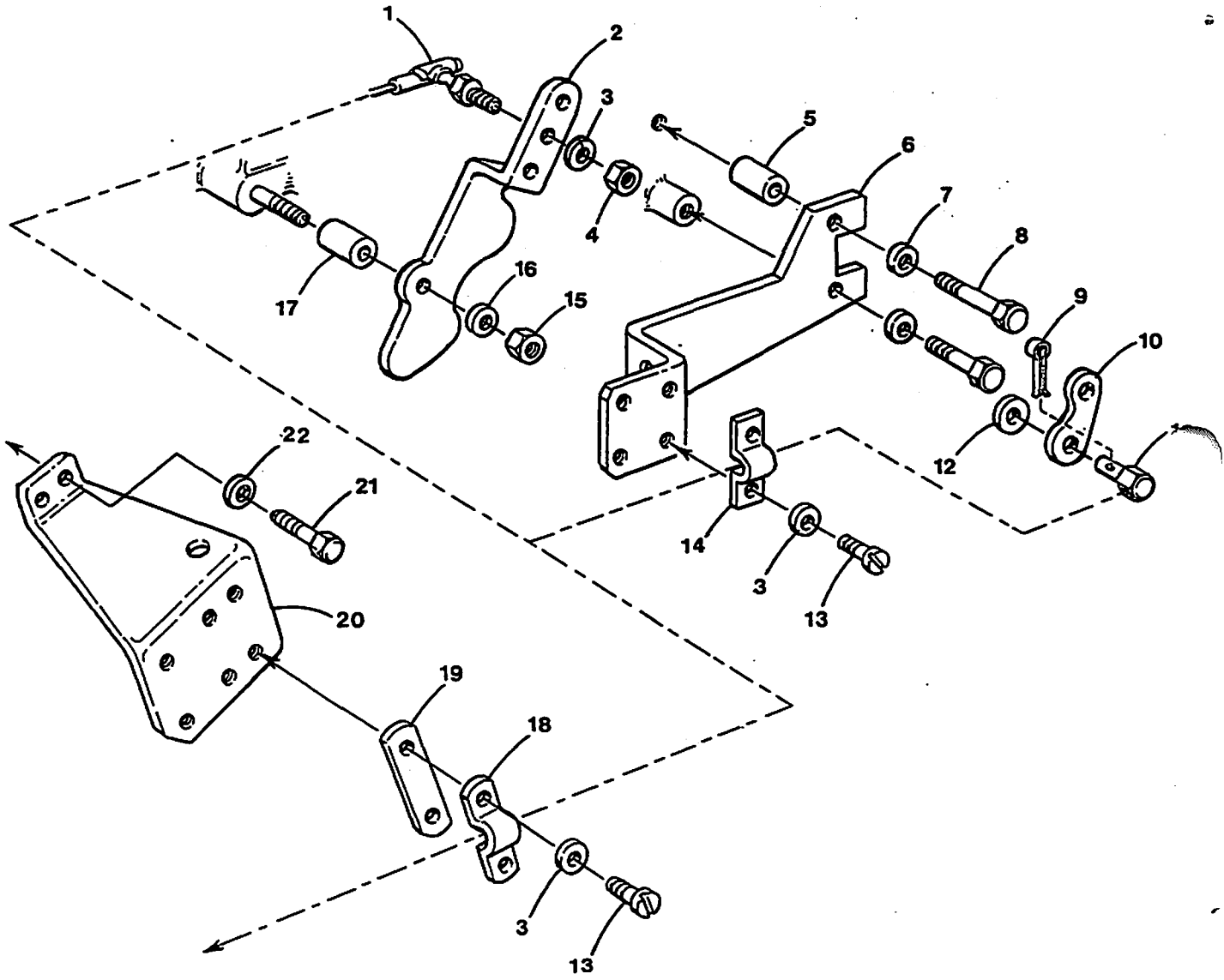
FUEL LIFT PUMP & FUEL FILTER - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	044074	BRACKET	SUPPORT LIFT PUMP BRACKET	1
2	031225	CAPSCREW	M8 X 60 DIN 931	2
3	024984	BOLT	BANJO M14	2
4	024972	WASHER	BANJO M14 ALUMINUM	1
5	030291	WASHER	BANJO M14	2
6	043881	HOSE	FILTER TO INJECTION PUMP - PROP	1
7	031787	WASHER	M8 DIN 125	2
8	031786	LOCKWASHER	M8 DIN 127	3
9	018242	NUT	M8 DIN 934	2
10	030210	FILTER	FUEL	1
11	030289	WASHER	BANJO M8	1
12	044243	CAPSCREW	M8 X 14 DIN 933	1
13	046669	RETAINER	FUEL FILTER	1
14	030199	CUP	FUEL FILTER	1
15	030200	ELEMENT	FUEL FILTER INCL O-RINGS	1
16	034741	HOSE	LIFT PUMP TO FILTER INCL ELBOW	1
17	013340	ELBOW	1/8 NPT STREET 90 BRASS	1
18	015812	NUT	M6 DIN 934	2
19	031783	LOCKWASHER	M6 DIN 127	2
20	044164	BRACKET	LIFT PUMP SUPPORT	2
21	039275	PUMP	FUEL LIFT 12 VDC	1
22	018242	NUT	M8 DIN 934	1
23	031786	LOCKWASHER	M8 DIN 127	1
24-1	034422	BRACKET	LIFT PUMP AND FILTER - JS TRANS.	1
24-2	039959	BRACKET	LIFT PUMP AND FILTER	1
25	031784	WASHER	M6 DIN 125	2
26	018804	CAPSCREW	M6 X 20 DIN 933	2
27	031783	LOCKWASHER	M6 DIN 127	1
28	019262	LOCKWASHER	M10 DIN 127	1
29	024951	CAPSCREW	M10 X 1.25 X 20 DIN 961	1

FUEL LIFT PUMP & FUEL FILTER - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	043899	MOUNT	FRONT RIGHT - LIFT PUMP & FILTER BRACKET	1
2	031792	LOCKWASHER	M12 DIN 127	2
3	024959	CAPSCREW	M12 X 1.25 X 25 DIN 961	2
4	031713	CAPSCREW	1/2NC X 3	2
5	031777	WASHER	FLAT 1/2	2
6	030210	FILTER	FUEL	1
7	031787	WASHER	M8 DIN 125	3
8	031786	LOCKWASHER	M8 DIN 127	2
9	031811	CAPSCREW	M8 X 55 DIN 931	2
10	044243	CAPSCREW	M8 X 14 DIN 933	1
11	030289	WASHER	BANJO M8	1
12	030291	WASHER	BANJO M14	4
13	024984	BOLT	BANJO M14	1
14	024972	WASHER	BANJO M14 ALUMINUM	2
15	046669	RETAINER	FUEL FILTER	1
16	030199	CUP	FUEL FILTER	1
17	030200	ELEMENT	FUEL FILTER INCL O-RINGS	1
18	038606	HOSE	LIFT PUMP TO FILTER	1
19	013340	ELBOW	1/8 NPT STREET 90 BRASS	1
20	031784	WASHER	M6 DIN 125	2
21	031783	LOCKWASHER	M6 DIN 127	2
22	017012	CAPSCREW	M6 X 16 DIN 933	2
23-1	039275	PUMP	FUEL LIFT 12 VDC	1
23-2	046631	PUMP	FUEL LIFT 24 VDC (OPT'L)	1
24	044214	HOSE	FILTER TO INJECTION PUMP	1

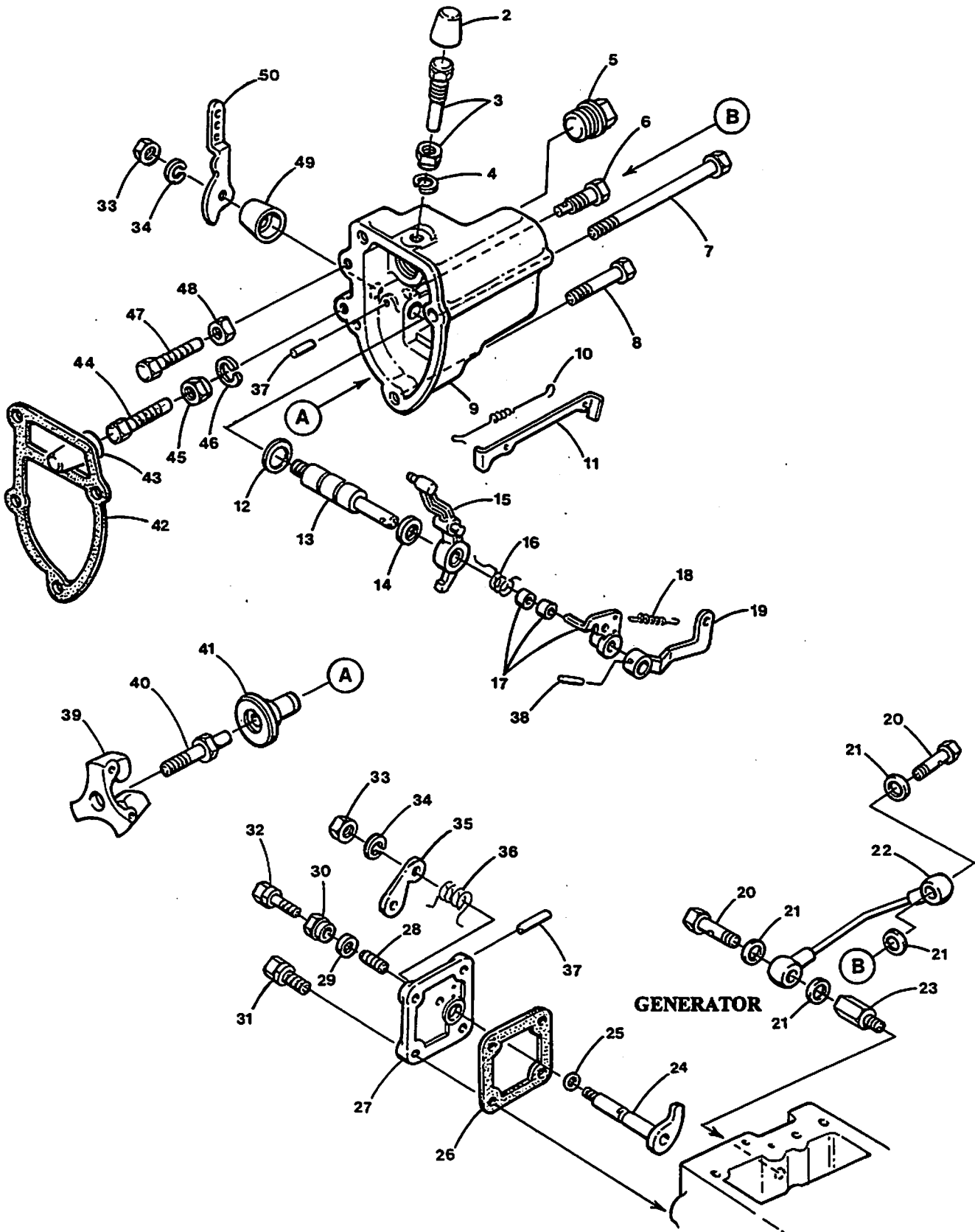
THROTTLE ASSEMBLY- 44A/B



THROTTLE ASSEMBLY- 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	019364	BALL JOINT		1
2	045259	LEVER	THROTTLE	1
3	031849	LOCKWASHER	10 SS	5
4	031847	NUT	10-32 SS HEX	1
5	033052	SPACER	SOLENOID TO BRACKET	1
6	043957	BRACKET	STOP CABLE	1
7	031783	LOCKWASHER	M6 DIN 127	1
8	013590	CAPSCREW	M6 X 30 DIN 933	1
9	011796	PIN	COTTER 1/16 X 1/2	1
10	045272	LEVER	STOP	1
11	299864	PIVOT	STOP LEVER	1
12	031784	WASHER	M6 DIN 125	1
13	031872	SCREW	10-32 X 1/2 SS BINDING HD	4
14	013871	CLAMP	SHUT-OFF CABLE	1
15	031802	NUT	M8 DIN 936 JAM	1
16	031786	LOCKWASHER	M8 DIN 127	1
17	045247	COVER	GOVERNOR SHAFT	1
18	013325	CLAMP	CABLE	1
19	013870	SHIM	CABLE CLAMP	1
20	043374	BRACKET	THROTTLE CABLE	1
21	017196	CAPSCREW	M8 X 20 DIN 933	2
22	033381	WASHER	FLAT	1

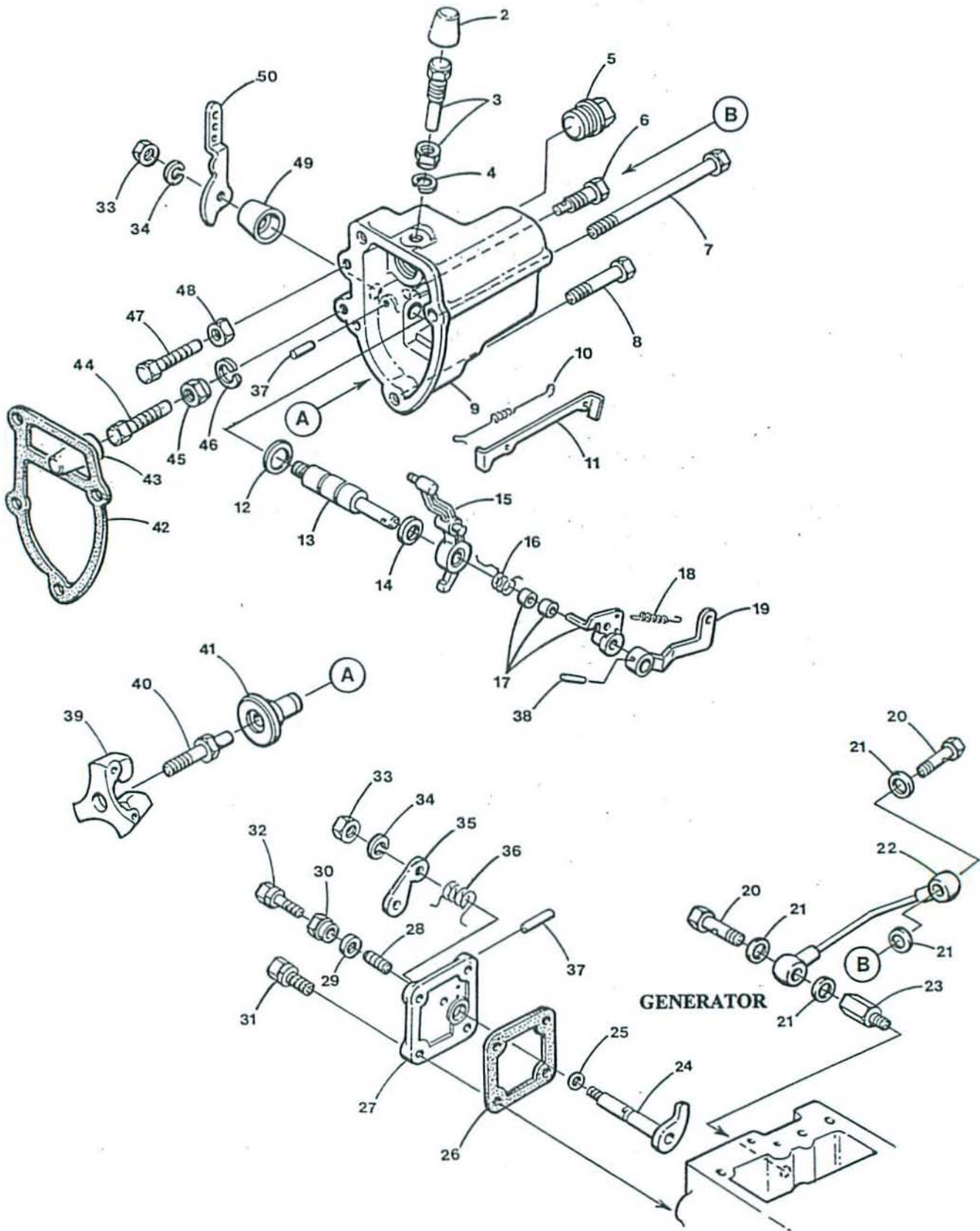
GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	045257	GOVERNOR	ASSEMBLY 44A	1
1-2	048022	GOVERNOR	ASSEMBLY 44B	1
1-3	047142	GOVERNOR	ASSEMBLY GENSET	1
2	043981	COVER	TORQUE SET ANTI-TAMPER	1
3	043977	SCREW ASSY	RACK SET	1
4	043980	RING	RETAINING "C"	1
5	036944	PLUG	M30 X 1.5 - WHEN SOLENOID NOT INSTALLED	1
6	045398	CONNECTOR	OIL LINE TO GOVERNOR - GENSET	1
7	045248	BOLT	GOVERNOR CASE	1
8	024948	CAPSCREW	M8 X 45 DIN 931	3
9-1	047139	HOUSING	GOVERNOR - GENSET	1
9-2	045263	HOUSING	GOVERNOR - PROP	1
10	045244	SPRING	TIE ROD	1
11	045254	ROD	TIE-GOVERNOR	1
12	047147	O-RING		1
13	045249	SHAFT	GOVERNOR	1
14	045261	SHIM	GOVERNOR SHAFT	1
15-1	047140	LEVER ASSY	GOVERNOR - GENSET	1
15-2	045262	LEVER ASSY	GOVERNOR - PROP	1
16	045252	SPRING	START	1
17	045245	LEVER ASSY	TENSION	1
18-1	047137	SPRING	GOVERNOR - GENSET	1
18-2	045251	SPRING	GOVERNOR - 44A	1
18-3	048020	SPRING	GOVERNOR - 44B	1
19-1	045250	LEVER	GOVERNOR SPRING - 44A	1
19-2	047136	LEVER	GOVERNOR SPRING - 44B & GENSET	1
20	045234	BOLT	BANJO M10 OIL LINE - GENSET	2
21	046920	WASHER	BANJO M10 GENSET	4
22	047141	LINE	OIL GENSET	1
23	047138	CONNECTOR	OIL LINE TO BLOCK GENSET	1
24	045243	LEVER	STOP	1
25	030277	O-RING		1
26	030578	GASKET	TIE ROD COVER	1
27	045242	COVER	TIE ROD INCL. REF #S 28 - 30	1
28	045235	SCREW	ADJUSTING-TIE ROD COVER	1
29	048019	WASHER	STOP LEVER	1
30	045267	NUT	TIE ROD COVER	1
31	043065	CAPSCREW	M6 X 18 JIS 7 W/LW	3
32	035794	CAPSCREW	M8 X 30 JIS 6 W/LW	1
33	031802	NUT	M8 DIN 936 JAM	2
34	031786	LOCKWASHER	M8 DIN 127	2
35	045272	LEVER	STOP	2
36	046907	SPRING	RETURN	1
37	030208	PIN	GROOVED	2
38	047146	PIN	SPRING	1
39-1	047135	WEIGHT	GOVERNOR - GENSET	1
39-2	045246	WEIGHT	GOVERNOR - 44A	1
39-3	048023	WEIGHT	GOVERNOR - 44B	1
40	045258	SHAFT	GOVERNOR-SLIDING	1
41-1	047143	SLEEVE	SLIDING - GENSET	1
41-2	045256	SLEEVE	SLIDING - 44A	1
41-3	048024	SLEEVE	SLIDING - 44B	1
42	045260	GASKET	GOVERNOR HOUSING	1

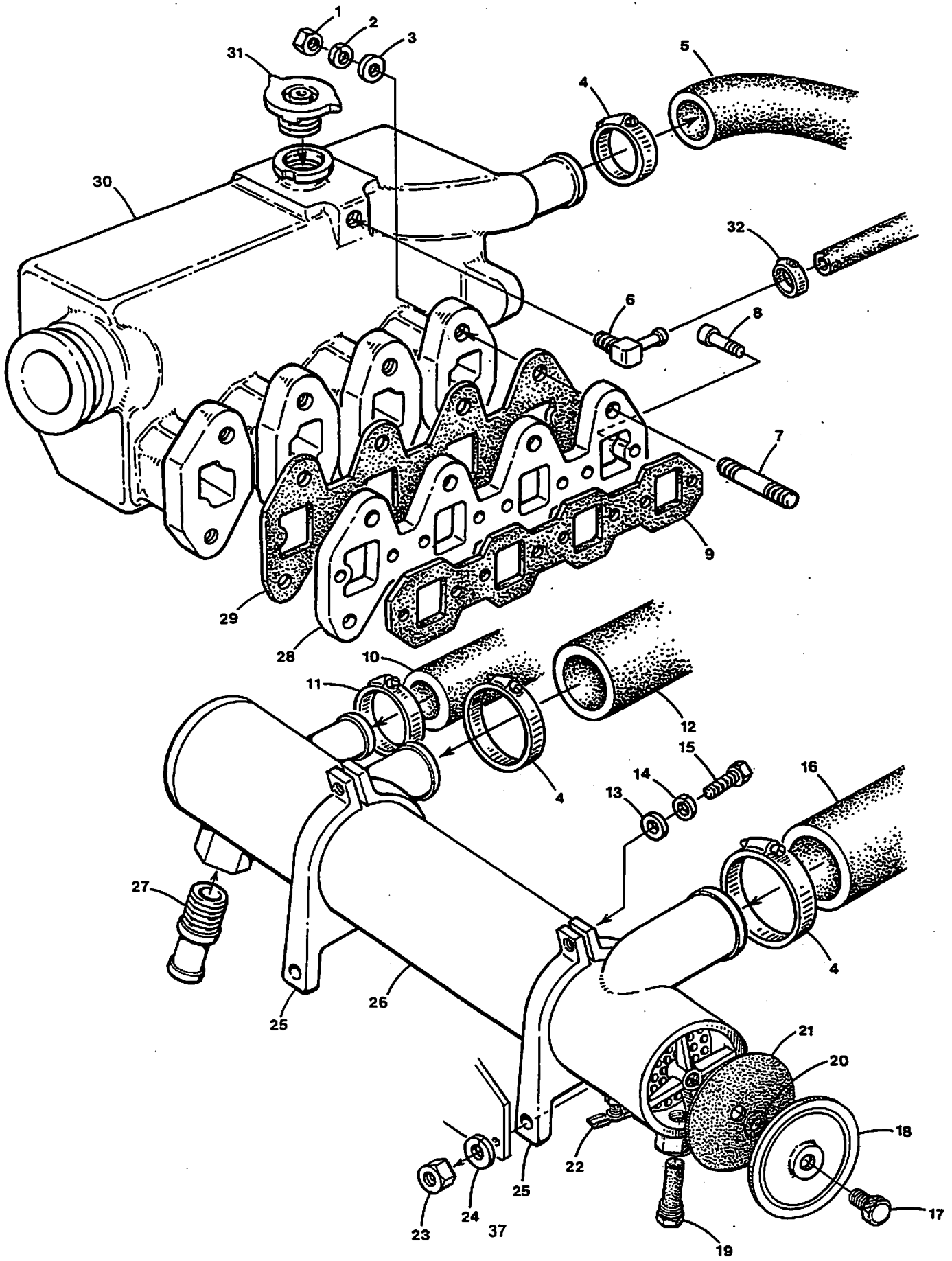
GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
43	043983	COVER	HIGH SPEED SET SCREW ANTI-TAMPER	1
44	045171	BOLT	HIGH SPEED INCL. REF #45	1
45	047125	NUT	HIGH SPEED SET	1
46	043984	RING	RETAINING	1
47	045255	BOLT	LOW IDLE SET	1
48	015812	NUT	M6 DIN 934	1
49	045247	COVER	GOVERNOR	1
50	045259	LEVER	THROTTLE	1

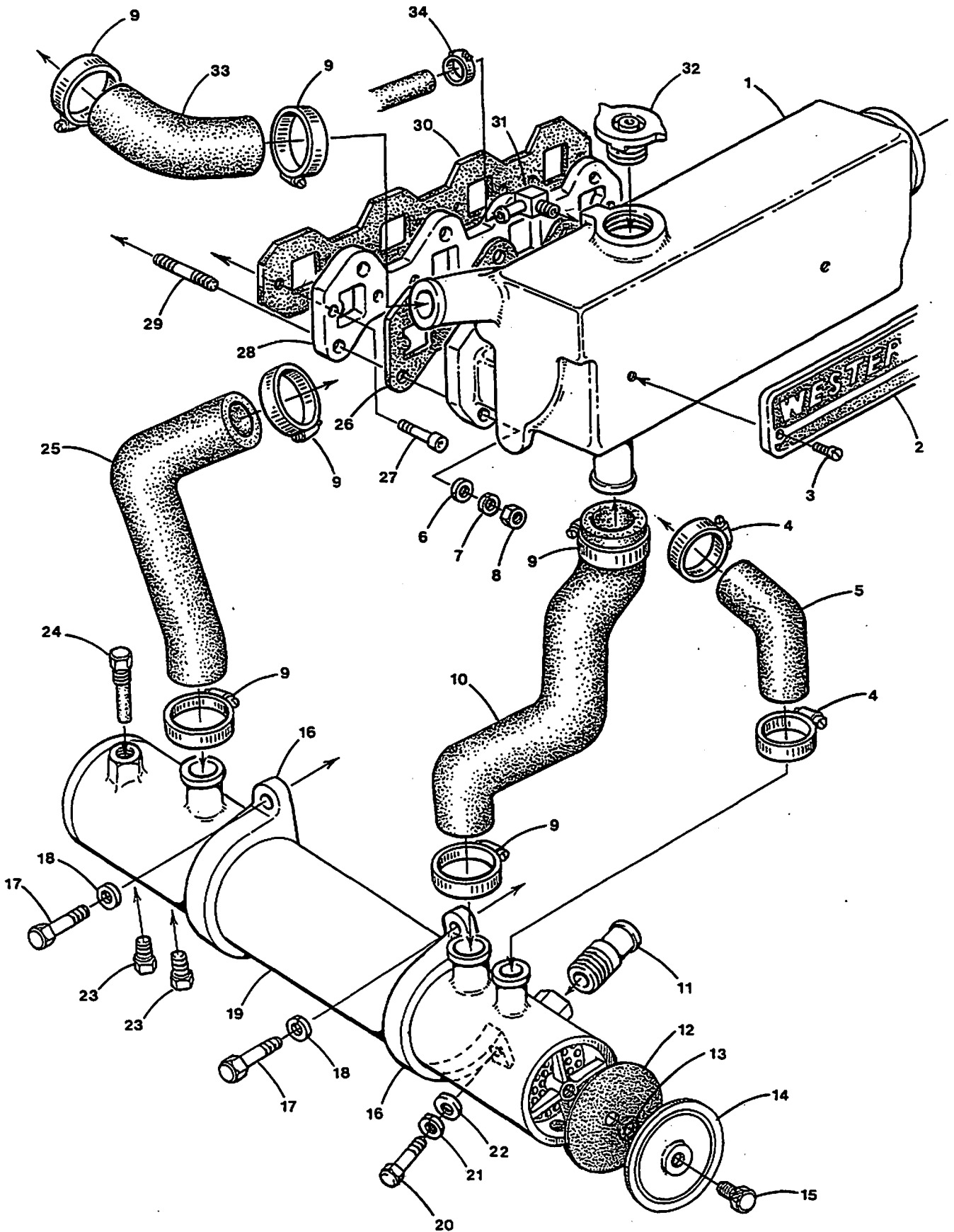
EXHAUST MANIFOLD & HEAT EXCHANGER - 44A/B



EXHAUST MANIFOLD & HEAT EXCHANGER - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	018242	NUT	M8 DIN 934	8
2	031786	LOCKWASHER	M8 DIN 127	8
3	031787	WASHER	M8 DIN 125	8
4	021878	CLAMP	HOSE 20	3
5	043952	HOSE	THERMOSTAT TO MANIFOLD	1
6	024907	ELBOW	1/8NPT X 5/16 HOSE	1
7	015830	STUD	M8 X 25 DIN 939	10
8	299031	CAPSCREW	M8 X 20 DIN 912	8
9	043955	GASKET	EXHAUST TO HEAD	1
10	043941	HOSE	SEA PUMP TO EXCHANGER	1
11	011386	CLAMP	HOSE 12	1
12	043994	HOSE	MANIFOLD TO EXCHANGER	1
13	031753	WASHER	FLAT 1/4	2
14	031752	LOCKWASHER	1/4	2
15	031506	CAPSCREW	1/4NC X 1-1/4	2
16	043718	HOSE	EXCHANGER TO PUMP	1
17	022852	CAPSCREW	3/8 NC X 3/4 BRASS	2
18	022850	COVER	EXCHANGER END	2
19	011885	ZINC		1
20	019321	O-RING	EXCHANGER END COVER	2
21	022851	GASKET	EXCHANGER END COVER	2
22	011471	PETCOCK	1/8NPT EXT SEAT BRASS	1
23	018242	NUT	M8 DIN 934	2
24	031786	LOCKWASHER	M8 DIN 127	2
26	036899	EXCHANGER	HEAT	1
27	036622	NIPPLE	3/4NPT TO 1" HOSE	1
28	043626	ADAPTER	MANIFOLD TO HEAD	1
29	043816	GASKET	EXHAUST MANIFOLD TO ADAPTER	1
30	048025	MANIFOLD	EXHAUST	1
31	024306	CAP	PRESSURE 15 PSI	1
32	024906	CLAMP	HOSE	1

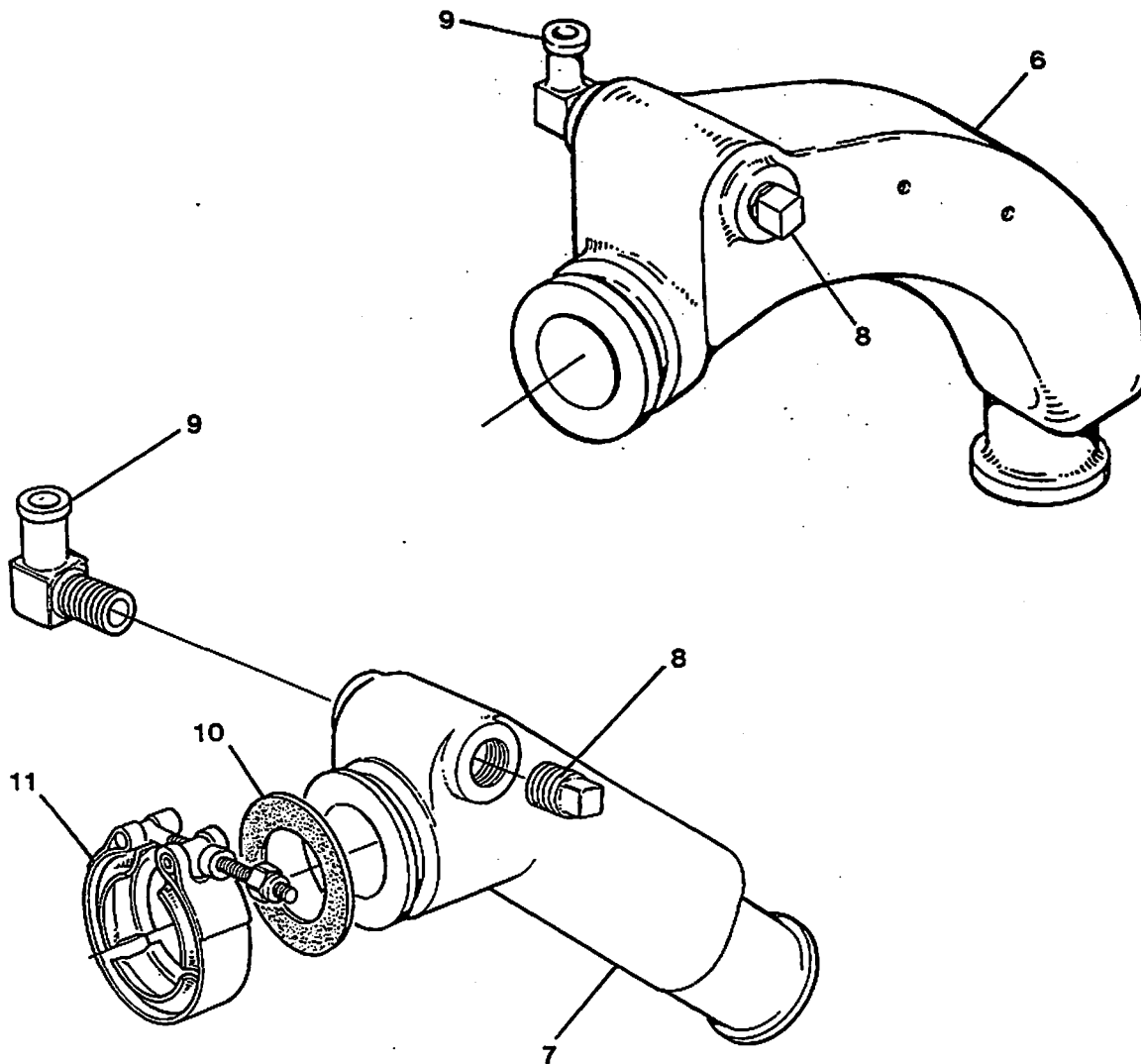
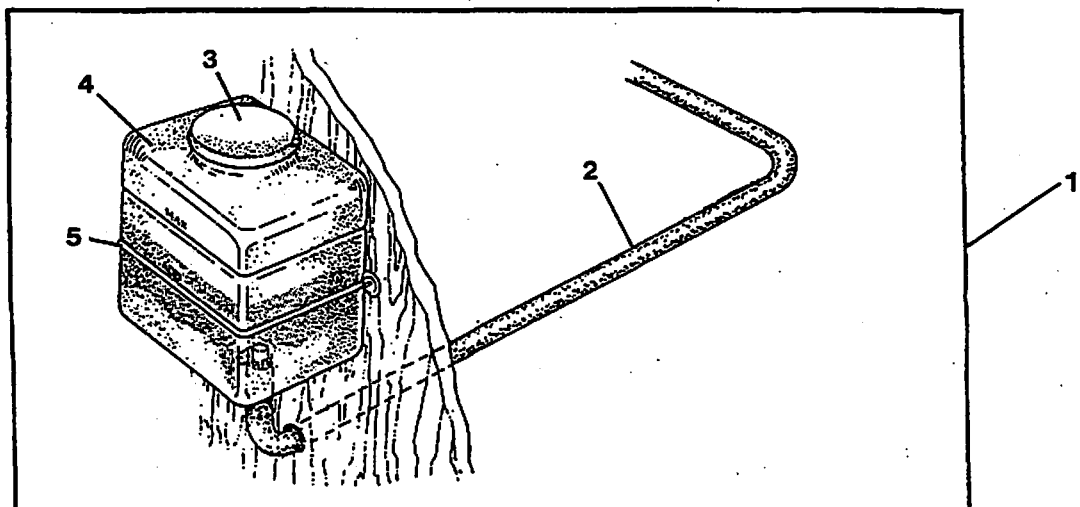
EXHAUST MANIFOLD & HEAT EXCHANGER - 12.5 BTDB- 15.0 BTDC



EXHAUST MANIFOLD & HEAT EXCHANGER - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	048025	MANIFOLD	EXHAUST	1
2	035411	NAMEPLATE		1
3	031935	SCREW	8-32 X 1/4 SS OVAL HEAD	2
4	011386	CLAMP	HOSE 12	2
5	043940	HOSE	SEA PUMP TO EXCHANGER	1
6	031787	WASHER	M8 DIN 125	8
7	031786	LOCKWASHER	M8 DIN 127	8
8	018242	NUT	M8 DIN 934	8
9	021878	CLAMP	HOSE 20	6
10	043679	HOSE	MANIFOLD TO EXCHANGER	1
11	036622	NIPPLE	3/4NPT TO 1" HOSE	1
12	022851	GASKET	EXCHANGER END COVER	2
13	019321	O-RING	EXCHANGER END COVER	2
14	022850	COVER	EXCHANGER END	2
15	022852	CAPSCREW	3/8 NC X 3/4 BRASS	2
17	046778	CAPSCREW	M12 X 1.25 X 30 DIN 912	2
18	031792	LOCKWASHER	M12 DIN 127	2
19-1	045528	EXCHANGER	HEAT	1
19-2	045374	EXCHANGER	HEAT-CUPRO NICKEL (OPT'L)	1
20	031506	CAPSCREW	1/4NC X 1-1/4	2
21	031752	LOCKWASHER	1/4	2
22	031753	WASHER	FLAT 1/4	2
23	019369	PLUG	1/8 NPT HEX HEAD BRASS	2
24	011885	ZINC		1
25	034228	HOSE	EXCHANGER TO FRESH WATER PUMP	1
26	043816	GASKET	EXHAUST MANIFOLD TO ADAPTER	1
27	299031	CAPSCREW	M8 X 20 DIN 912	8
28	043626	ADAPTER	MANIFOLD TO HEAD	1
29	015830	STUD	M8 X 25 DIN 939	8
30	043955	GASKET	EXHAUST TO HEAD	1
31	024907	ELBOW	1/8NPT X 5/16 HOSE	1
32	024306	CAP	PRESSURE 15 PSI	1
33	043952	HOSE	THERMOSTAT TO MANIFOLD	1
34	024906	CLAMP	HOSE	1

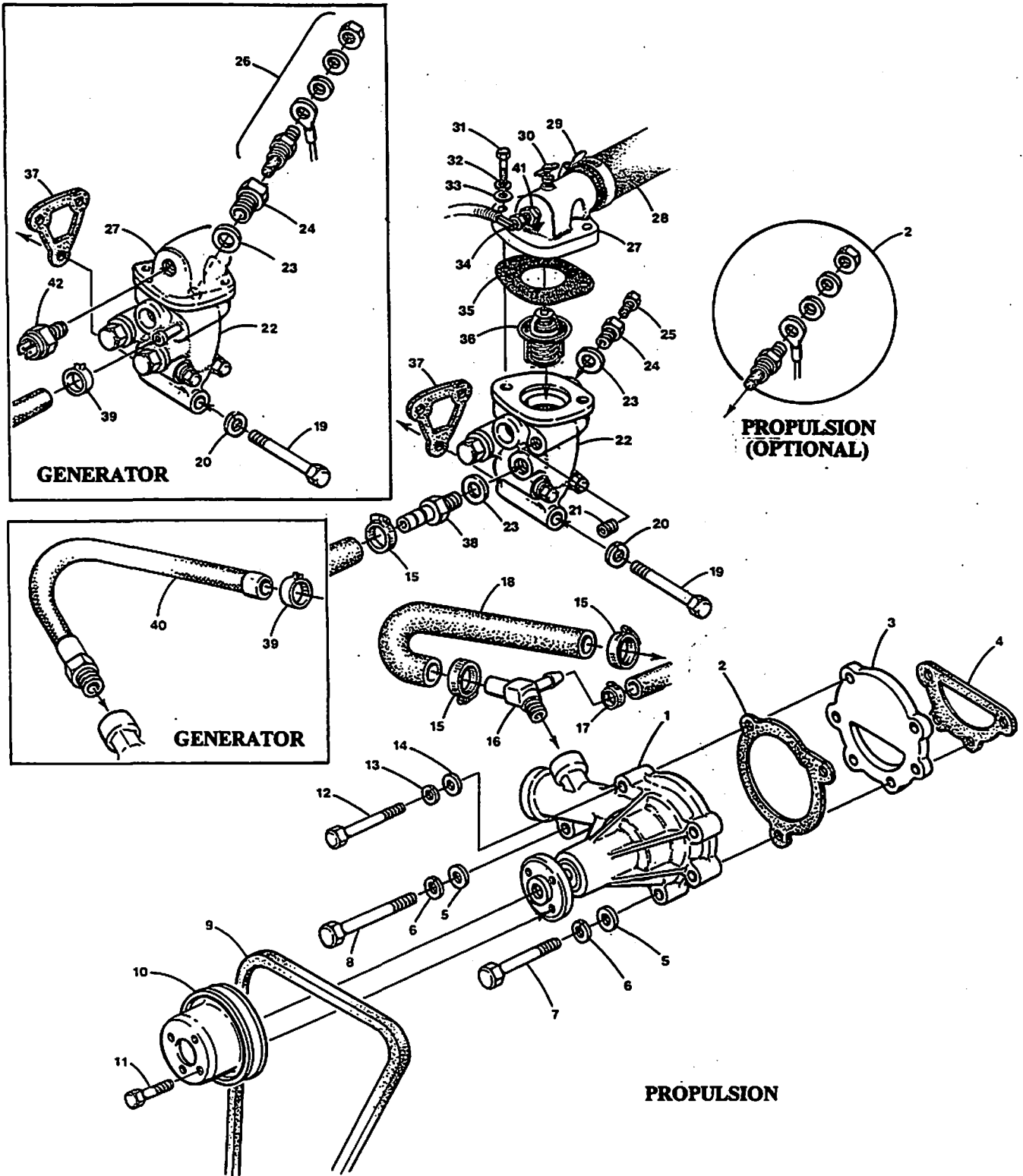
REMOTE COOLANT TANK & EXHAUST ELBOWS -44A/B -12.5 - 15.0



REMOTE COOLANT TANK & EXHAUST ELBOWS -44A/B -12.5 - 15.0

Reference #	Part #	Part Name	Remarks	Quantity
1-1	024977	TANK KIT	COOLANT RECOVERY INCL REF #S 1 - 5	1
1-2	024906	CLAMP	HOSE	1
2	024637	TUBING	MANIFOLD TO TANK - INCHES REQUIRED	72
3	024858	CAP	COOLANT RECOVERY TANK	1
4	024704	TANK	COOLANT RECOVERY	1
5	024786	STRAP	COOLANT RECOVERY TANK	1
6	037401	ELBOW KIT	WATER INJECTED EXHAUST 90 DEG INCL 8-11	1
7	037402	ELBOW KIT	WATER INJECTED EXHAUST 45 DEG INCL 8- 11	1
8-1	035747	PLUG	1/2 NPT SQ HEAD BRASS - 45 DEGREE ELBOW	1
8-2	036849	PLUG	3/4 NPT SQ HEAD BRASS - 90 DEGREE ELBOW	1
9-1	036616	ELBOW	1/2NPT TO 1" HOSE - 45 DEGREE ELBOW	1
9-2	036614	ELBOW	3/8NPT TO 1" HOSE - 90 DEGREE ELBOW	1
10	036425	GASKET	EXHAUST ELBOW	1
11	036541	CLAMP	EXHAUST ELBOW	1

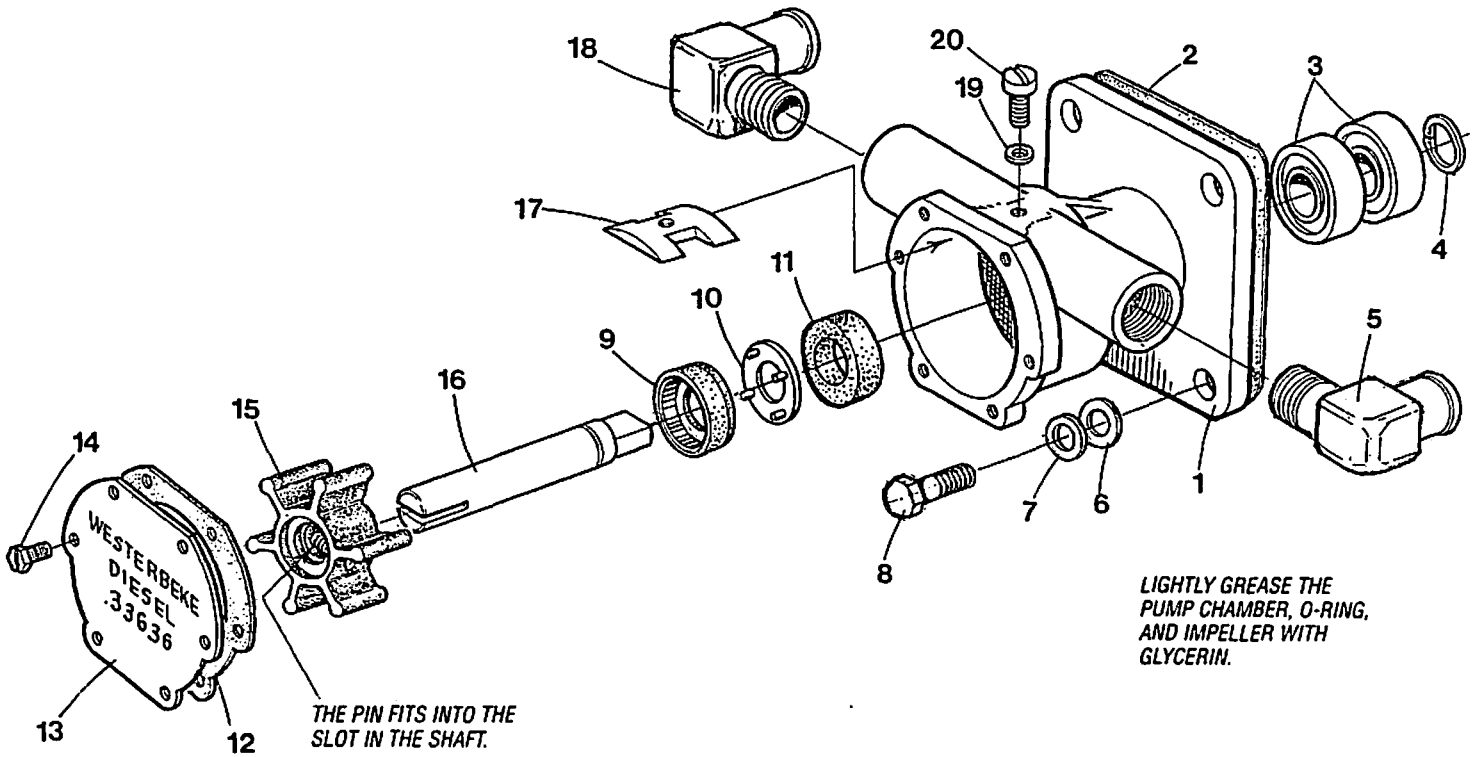
COOLING SYSTEM & FRESH WATER PUMP-44A/B-12.5 BTDB-15.0 BTDC



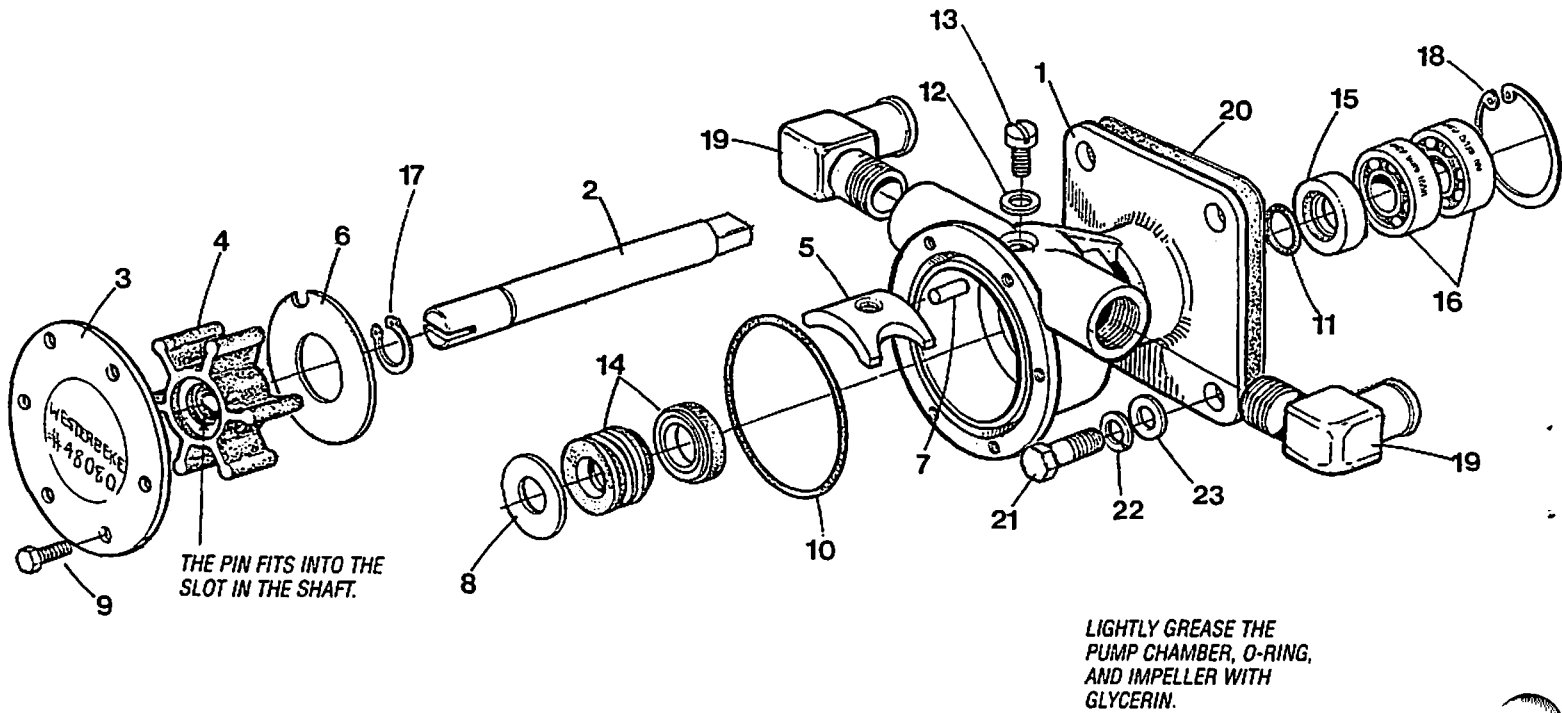
COOLING SYSTEM & FRESH WATER PUMP-44A/B-12.5 BTDB-15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	045231	PUMP	FRESH WATER	1
2	044082	GASKET	FRESH WATER PUMP PLATE	1
3	044083	PLATE	FRESH WATER PUMP	1
4	030474	GASKET	WATER PUMP TO BLOCK	1
5	031787	WASHER	M8 DIN 125	4
6	031786	LOCKWASHER	M8 DIN 127	4
7	024948	CAPSCREW	M8 X 45 DIN 931	3
8	031225	CAPSCREW	M8 X 60 DIN 931	1
9	045232	BELT		1
10	047134	PULLEY	FRESH WATER PUMP	1
11	035785	CAPSCREW	M6 X 12 JIS 6 W/LW	4
12	013590	CAPSCREW	M6 X 30 DIN 933	2
13	031783	LOCKWASHER	M6 DIN 127	2
14	031784	WASHER	M6 DIN 125	2
15	011341	CLAMP	HOSE 08 - PROP	2
16	044184	ELBOW	BYPASS - PROP	1
17	017298	CLAMP	HOSE	4
18	043876	HOSE	BYPASS - PROP	1
19	031812	CAPSCREW	M8 X 65 DIN 931	3
20	031786	LOCKWASHER	M8 DIN 127	3
21	043482	PLUG	BYPASS - PROP ONLY	1
22-1	045233	HOUSING	THERMOSTAT LOWER - GENSET	1
22-2	047894	HOUSING	THERMOSTAT LOWER - PROP	1
23	033280	WASHER	BANJO M16 ALUMINUM	2
24	024602	ADAPTER	M16 X 1.5 TO 1/8 NPT	1
25	019369	PLUG	1/8 NPT HEX HEAD BRASS	1
26	035109	SENDER	WATER TEMP - STD ON GEN (OPTL ON PROP)	1
27	043434	HOUSING	THERMOSTAT UPPER	1
28	043952	HOSE	THERMOSTAT TO MANIFOLD	1
29	021878	CLAMP	HOSE 20	2
30	011471	PETCOCK	1/8NPT	1
31	013619	CAPSCREW	M8 X 30 DIN 933	2
32	031786	LOCKWASHER	M8 DIN 127	2
33	031787	WASHER	M8 DIN 125	2
34	030125	SWITCH	WATER TEMPERATURE - PROP	1
35	034196	GASKET	THERMOSTAT	1
36	024688	THERMOSTAT		1
37	045236	GASKET	THERMOSTAT LOWER HOUSING	1
38	043870	CONNECTOR	M16 X 1.5 X 5/8 HOSE - PROP	1
39	024906	CLAMP	HOSE	2
40	035435	HOSE	5/16 ID - INCHES REQUIRED - GENSET	9
41	037453	BUSHING	1/4 NPT X 1/8 NPT	1
42	039550	SWITCH	WATER TEMPERATURE - GENSET	1

RAW WATER PUMP



RAW WATER PUMP (from March 2004)



REV 3 05

WESTERBEKE
Engines & Generators

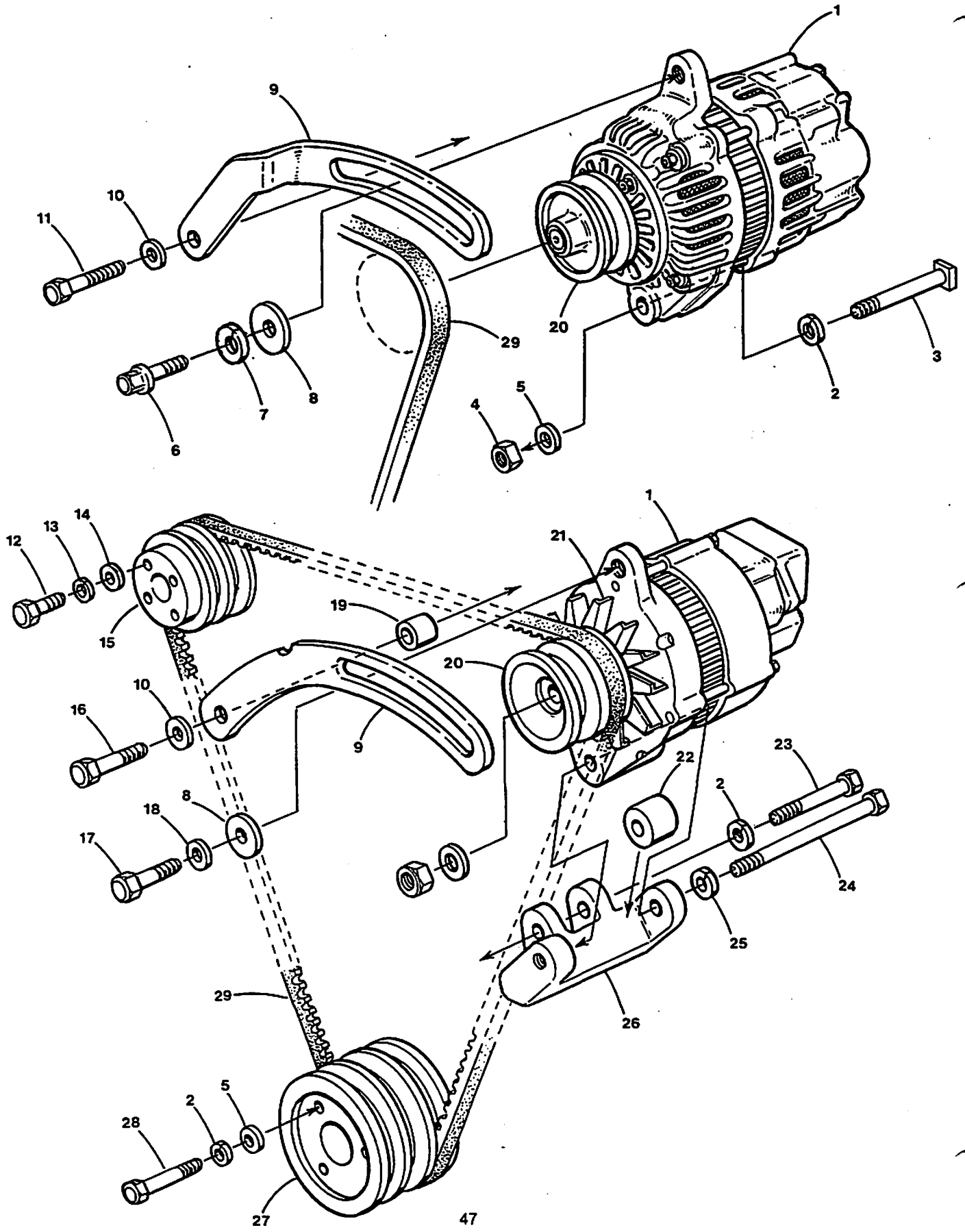
RAW WATER PUMP

Reference #	Part #	Part Name	Quantity
1-1	033636	<u>RAW WATER PUMP (NLA)</u>	1
1-2	034457	HOUSING	1
1-3	034466	PUMP KIT	1
2	030326	GASKET	1
3	034464	BEARING	2
4	033044	RETAINING RING	1
5	034710	ELBOW 3/8NPT TO 7/8 HOSE (NOT INCL. W/PUMP)	1
6	031787	WASHER M8 DIN 125	4
7	031786	LOCKWASHER M8 DIN 127	4
8	017196	CAPSCREW M8 X 20 DIN 933	4
9	048013	SEAL	1
10	038678	SPACER	1
11	033043	OIL SEAL	1
12	034459	GASKET	1
13	034461	COVER	1
14	034463	SCREW	6
15	034440	IMPELLER - SCREW-GASKET KIT	1
16	034460	SHAFT	1
17	034458	CAM	1
18	036612	ELBOW 3/8NPT TO 1" HOSE (NOT INCL. W/PUMP)	1
19	033037	WASHER	1
20	034462	SCREW	1

RAW WATER PUMP (from March 2004)

Reference #	Part #	Part Name	Quantity
1	048080	<u>RAW WATER PUMP</u>	1
2	049172	SHAFT	1
3	049170	IMPELLER COVER	1
4	048500	IMPELLER KIT (O-RING & GLYCERIN)	1
5	034458	CAM	1
6	049171	WEAR PLATE	1
7	0302575	DOWEL	1
8	048253	SPRING SEAL WASHER	1
9	034463	IMPELLER COVER SCREW	6
10	048359	IMPELLER COVER O-RING	1
11	033041	O-RING	1
12	033037	CAM WASHER	1
13	046662	CAM SCREW	1
14	048254	SPRING SEAL	1
15	049169	LIP SEAL	1
16	034464	BALL BEARING	2
17	033045	RETAINING INTERNAL RING	1
18	033044	RETAINING EXTERNAL RING	1
19	034710	ELBOW 3/8" NPT TP 7/8" HOSE	1
	036612	ELBOW 3/8" NPT TO 1" HOSE	1
20	030326	MOUNTING GASKET	1
	049000	PUMP REPAIR KIT (INCLUDES ALL COMPONENTS EXCEPT ITEMS 1,7,AND 19)	1
	037431	PUMP KIT (PUMP MOUNTING GASKET AND FITTINGS)	1

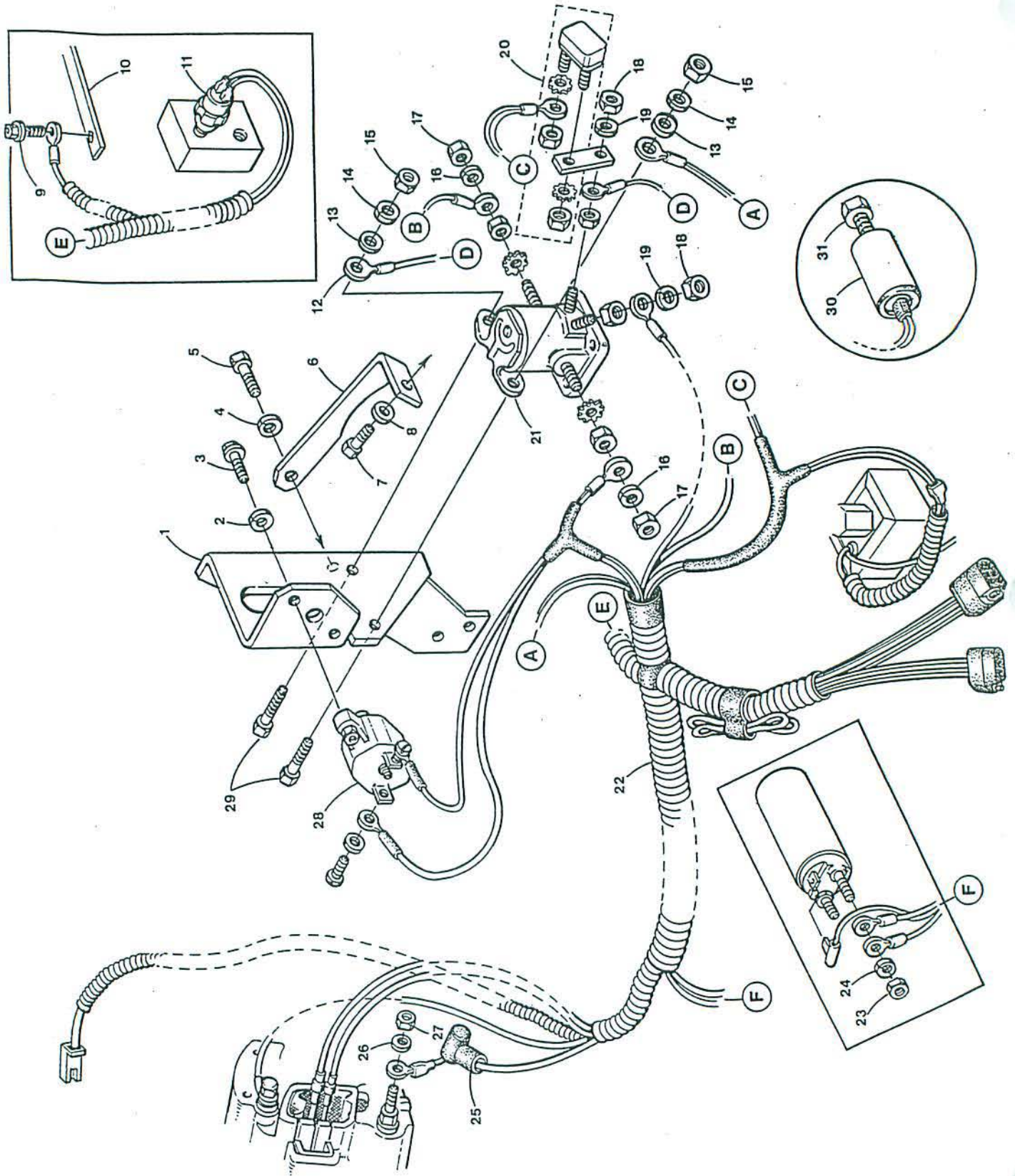
ALTERNATOR ASSEMBLY-50/72/90 AMP - 44A/B-12.5 BTDB-15.0 BTDC



ALTERNATOR ASSEMBLY-50/72/90 AMP - 44A/B-12.5 BTDB-15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	043953	ALTERNATOR	12VDC 50 AMP	1
1-2	044895	ALTERNATOR	24VDC 42 AMP (OPT'L)	1
1-3	300746	ALTERNATOR	12VDC 72 AMP (OPT'L)	1
1-4	042065	ALTERNATOR	12VDC 90 AMP (OPT'L)	1
1-5	034922	ALTERNATOR	12VDC 51 AMP UNGROUNDED (OPT'L)	1
1-6	044338	ALTERNATOR	24VDC 35 AMP UNGROUNDED (OPT'L)	1
2	019262	LOCKWASHER	M10 DIN 127 - 50 AMP	1
3	043954	BOLT	ALTERNATOR 43953 MOUNTING	1
4	024950	NUT	M10 X 1.25 DIN 934	1
5	031789	WASHER	M10 DIN 125	1
6-1	013630	CAPSCREW	M8 X 25 DIN 933 ALTERNATOR 43953	1
6-2	031555	CAPSCREW	5/16 NC X 1 ALTERNATOR 300746	1
7-1	031786	LOCKWASHER	M8 DIN 127	1
7-2	031758	LOCKWASHER	5/16	1
8	033381	WASHER	FLAT	1
9-1	047145	STRAP	ALTERNATOR 43953 ADJUST	1
9-2	043998	STRAP	ALTERNATOR ADJUST (OPT'L)	1
9-3	040030	STRAP	ALTERNATOR 44338 ADJUST (OPT'L)	1
10	031786	LOCKWASHER	M8 DIN 127	1
11	018812	CAPSCREW	M8 X 70 DIN 931	1
12	017012	CAPSCREW	M6 X 16 DIN 933	4
13	031783	LOCKWASHER	M6 DIN 127	4
14	031784	WASHER	M6 DIN 125	4
15	043832	PULLEY	FRESH WATER PUMP 2 GROOVE 90 AMP	1
16	024983	CAPSCREW	M8 X 75 DIN 931	1
17	031555	CAPSCREW	5/16NC X 1	1
18	031758	LOCKWASHER	5/16	1
19	040406	SPACER		1
20-1	048021	PULLEY	ALTERNATOR 43953	1
20-2	043838	PULLEY	ALTERNATOR 42065	1
20-3	011548	PULLEY	ALTERNATOR 34922 - 44338 - 44895 - 300746	1
21	042066	FAN	ALTERNATOR 42065	1
22-1	043844	SPACER	ALTERNATOR 300746	1
22-2	033473	SPACER	ALTERNATOR 42065	1
23	031819	CAPSCREW	M10 X 1.25 X 60 DIN 961	1
24-1	031718	CAPSCREW	1/2NC X 4-1/4 BRACKET 43824	1
24-2	031618	CAPSCREW	3/8NC X 4-1/4 BRACKET 43848	1
25-1	031776	LOCKWASHER	1/2	1
25-2	031764	LOCKWASHER	3/8	1
26-1	043824	BRACKET	ALTERNATOR 24 VDC - 12/24 VCD UNGND - 72 A	1
26-2	043848	BRACKET	ALTERNATOR 90-190 AMP	1
27	043830	PULLEY	CRANKSHAFT 3 GROOVE 90 AMP	1
28	031822	CAPSCREW	M10 X 1.25 X 75 DIN 960	3
29-1	045232	BELT	ALTERNATOR 43953 & 34922	1
29-2	037830	BELT	ALTERNATOR 300746 & 44338	1
29-3	035299	BELT	ALTERNATOR 42065	2
29-4	030475	BELT	ALTERNATOR 44895	1
30	021611	REGULATOR	ALTERNATOR 44338 - NOT SHOWN (OPT'L)	1

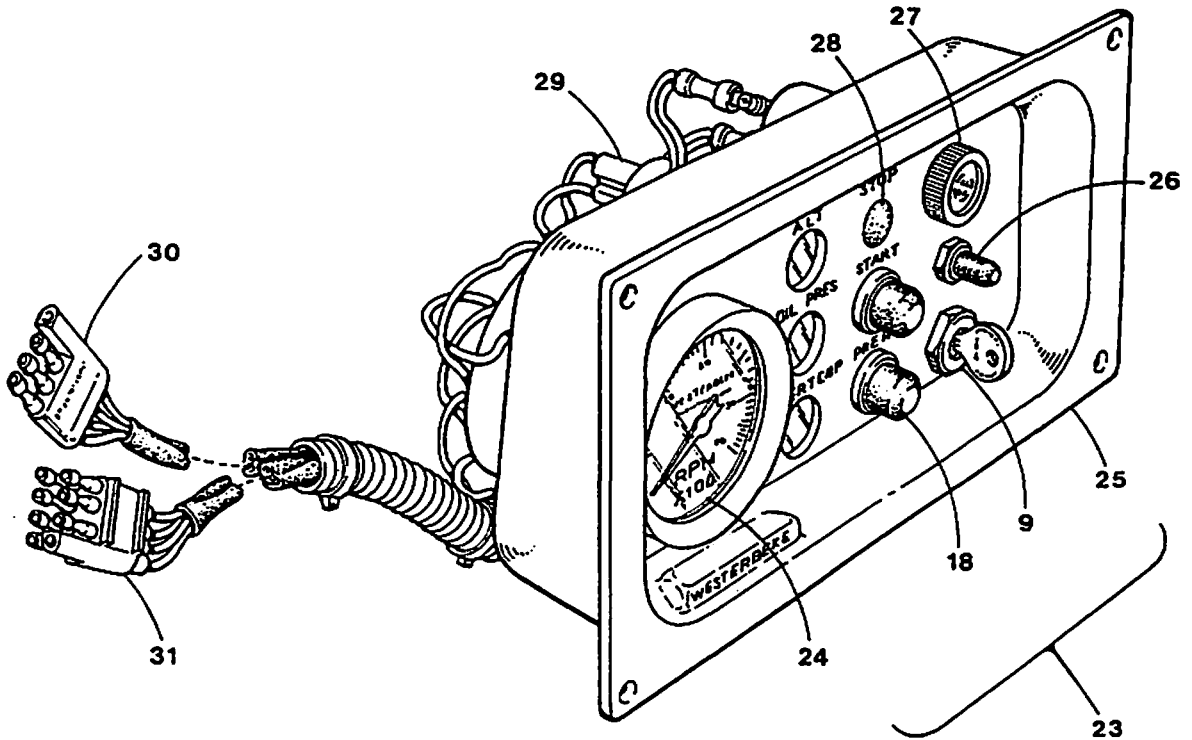
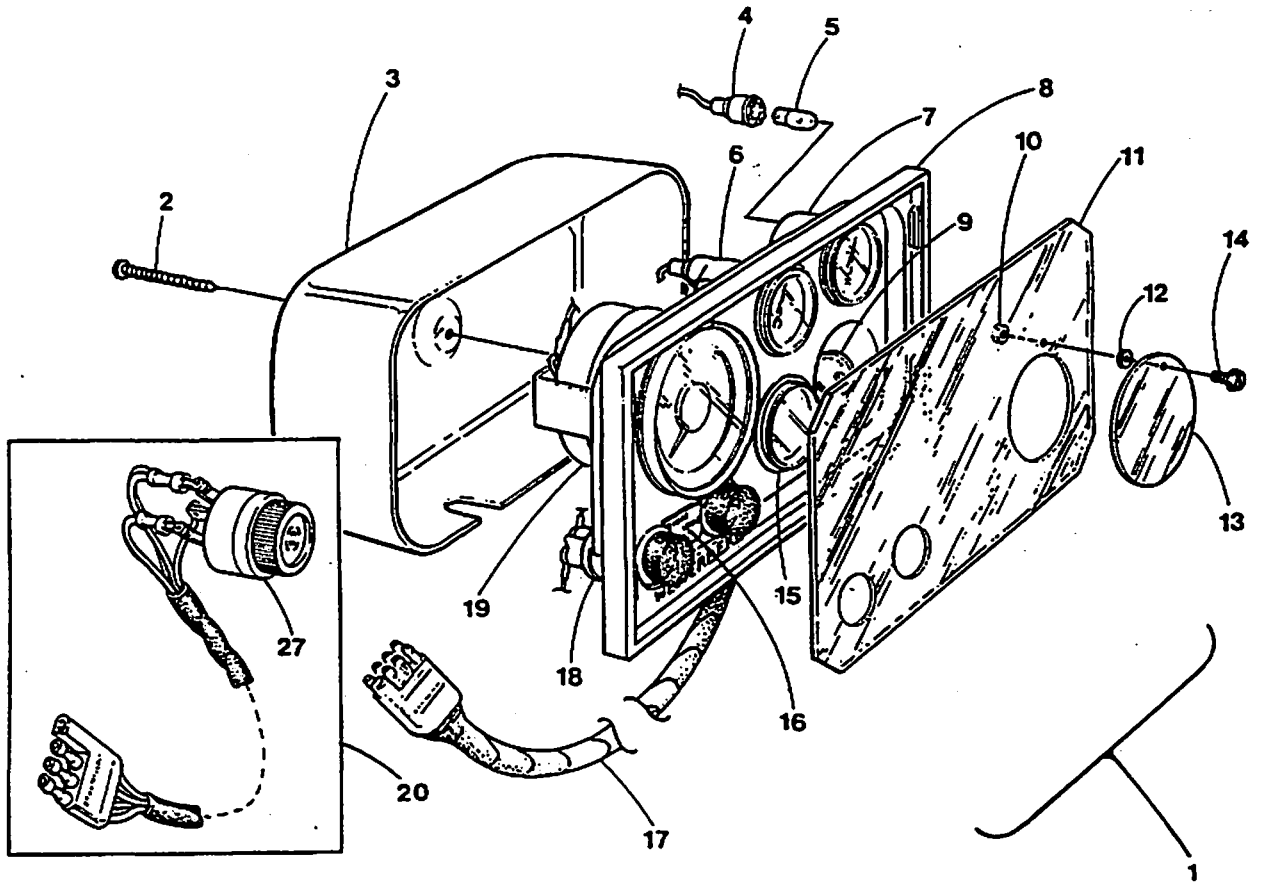
ELECTRICAL SYSTEM - 44A/B



ELECTRICAL SYSTEM - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	034418	BRACKET	CIRCUIT BREAKER & SOLENOID	1
2	031843	WASHER	FLAT 8 SS	2
3	043480	SCREW	8-32 X 7/8 SS HEX WASHER HEAD	2
4	019262	LOCKWASHER	M10 DIN 127	1
5	024951	CAPSCREW	M10 X 1.25 X 20 DIN 961	1
6	044074	BRACKET	SUPPORT	1
7	018804	CAPSCREW	M6 X 20 DIN 933	1
8	031784	WASHER	M6 DIN 125	1
9	024353	GLOWPLUG	12 VDC	4
10	045266	STRAP	GLOWPLUG CONNECTING	1
11	037323	SWITCH	OIL PRESSURE	1
12	039806	RESISTOR	ASSEMBLY	1
13	031753	WASHER	FLAT 1/4	2
14	031752	LOCKWASHER	1/4	2
15	031750	NUT	1/4NC	2
16	031758	LOCKWASHER	5/16	2
17	031760	NUT	5/16 NF	2
18	031847	NUT	10-32 SS HEX	2
19	031849	LOCKWASHER	10 SS	2
20	036563	BREAKER	CIRCUIT 10 AMP	1
21	024639	SOLENOID	PREHEAT 12 VDC	1
22	043906	HARNESS	ENGINE	1
23	031786	LOCKWASHER	M8 DIN 127	2
24	018242	NUT	M8 DIN 934	2
25	035449	BOOT		1
26	031784	WASHER	M6 DIN 125	2
27	015812	NUT	M6 DIN 934	2
28	024683	BREAKER	CIRCUIT 20 AMP 12 VDC	1
29	031503	CAPSCREW	1/4 NC X 3/4	2
30	037100	SOLENOID	FUEL SHUT-OFF 12 VDC	1
31	034669	NUT	SOLENOID	1
32	046746	MODULE	CURRENT TIMING FOR SOLENOID OPTION	1

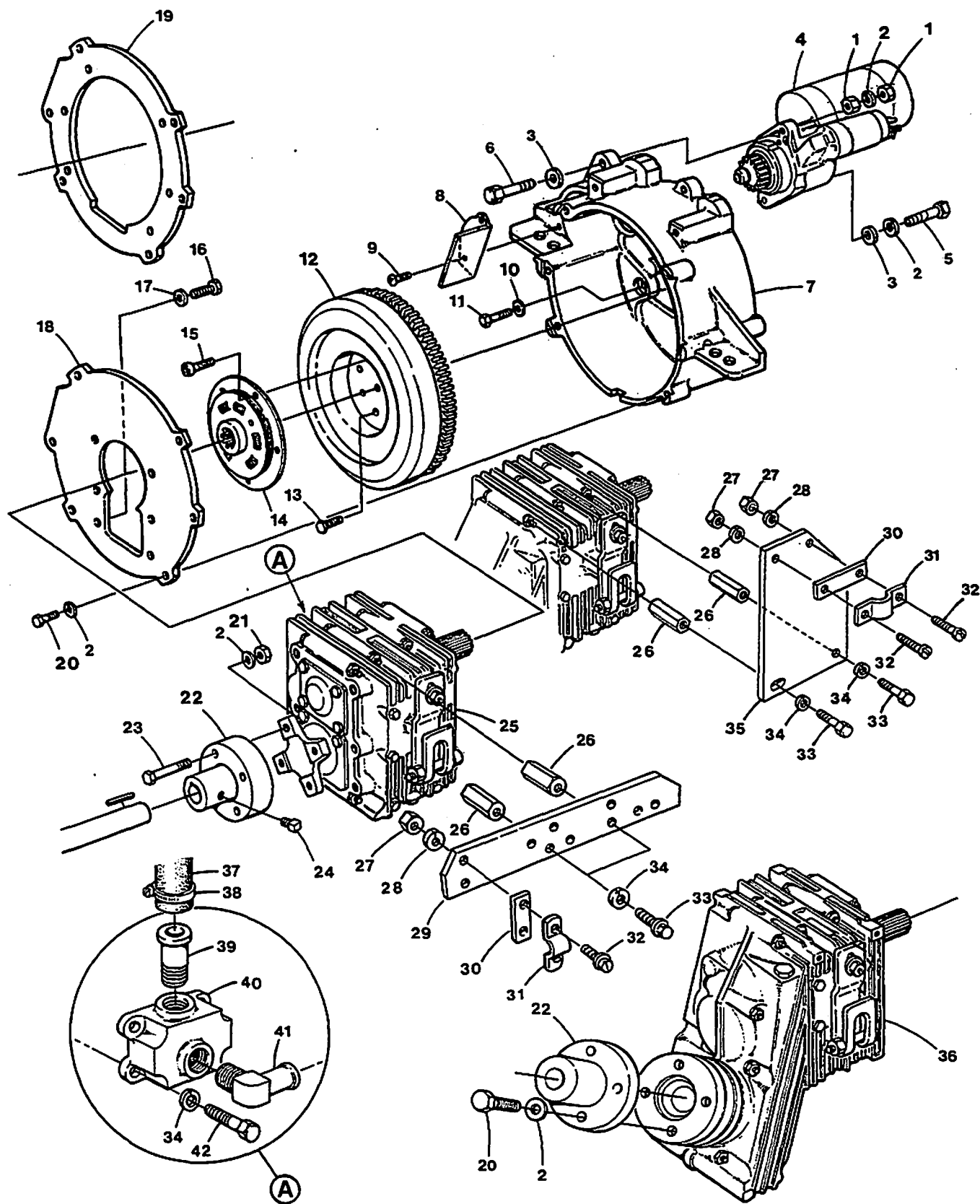
CONTROL PANELS - 44A/B



CONTROL PANELS - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	036843	PANEL	ADMIRAL 12 VDC INCL SENDERS AND ALARM	1
2	030913	SCREW	10 X 2 SS	1
3	030119	COVER	PANEL REAR	1
5	042893	LAMP	INSTRUMENT 12VDC INCL HOLDER	1
6	037601	METER	WATER TEMPERATURE	1
7	037603	METER	OIL PRESSURE	1
8	033865	PANEL	PLATE	1
9	033693	KEYSWITCH	OFF/ON	1
10	030003	NUT	NYLON LOCKING 6-32	1
11	033684	COVER	FACEPLATE	1
12	030002	SPACER	NYLON	1
13	024996	WINDOW	KEYSWITCH COVER	1
14	030001	SCREW	NYLON 6-32 X 1/2 WASHER HEAD	1
15	037605	VOLTMETER	12 VDC	1
16	033682	DECAL	SWITCH IDENTIFICATION	1
17	030148	CABLE	PANEL TO ENGINE 8 PIN	1
18-1	033764	SWITCH	PUSHBUTTON START/PREHEAT	2
18-2	019031	CAP	SWITCH COVER REPLACEMENT	2
19	011917	METER	TACHOMETER-HOUR	1
20	036829	ALARM	ASSEMBLY	1
21	035825	WIRE	POWER TO METER LAMPS	3
22	039144	DIAGRAM	ENGINE WIRING	1
23	036473	PANEL	CAPTAIN	1
24	036590	METER	TACHOMETER	1
25	047256	PANEL	PLATE- INSTRUMENT CAPTAIN WITH LENS	1
26-1	036479	SWITCH	TEST	1
26-2	036490	CAP	SWITCH	1
27	013355	BUZZER	ALARM	1
28	030946	PLUG	NYLON	1
29-1	024947	LAMP	12 VDC	3
29-2	036483	HOLDER	LAMP	3
30	036626	HARNESS	PANEL TO ENGINE 4 PIN	1
31	036627	HARNESS	PANEL TO ENGINE 8 PIN	1
32	036477	ASSEMBLY	TERMINAL-DIODE	1
33	036544	SPACER	TERMINAL-DIODE ASSEMBLY	2
34	036545	SCREW	6-32 X 3/4 TAPPING SS	2
35	036630	DRAWING	TEMPLATE TO INSTALL EITHER PANEL	1

HBW (HURTH) TRANSMISSION - 44A/B

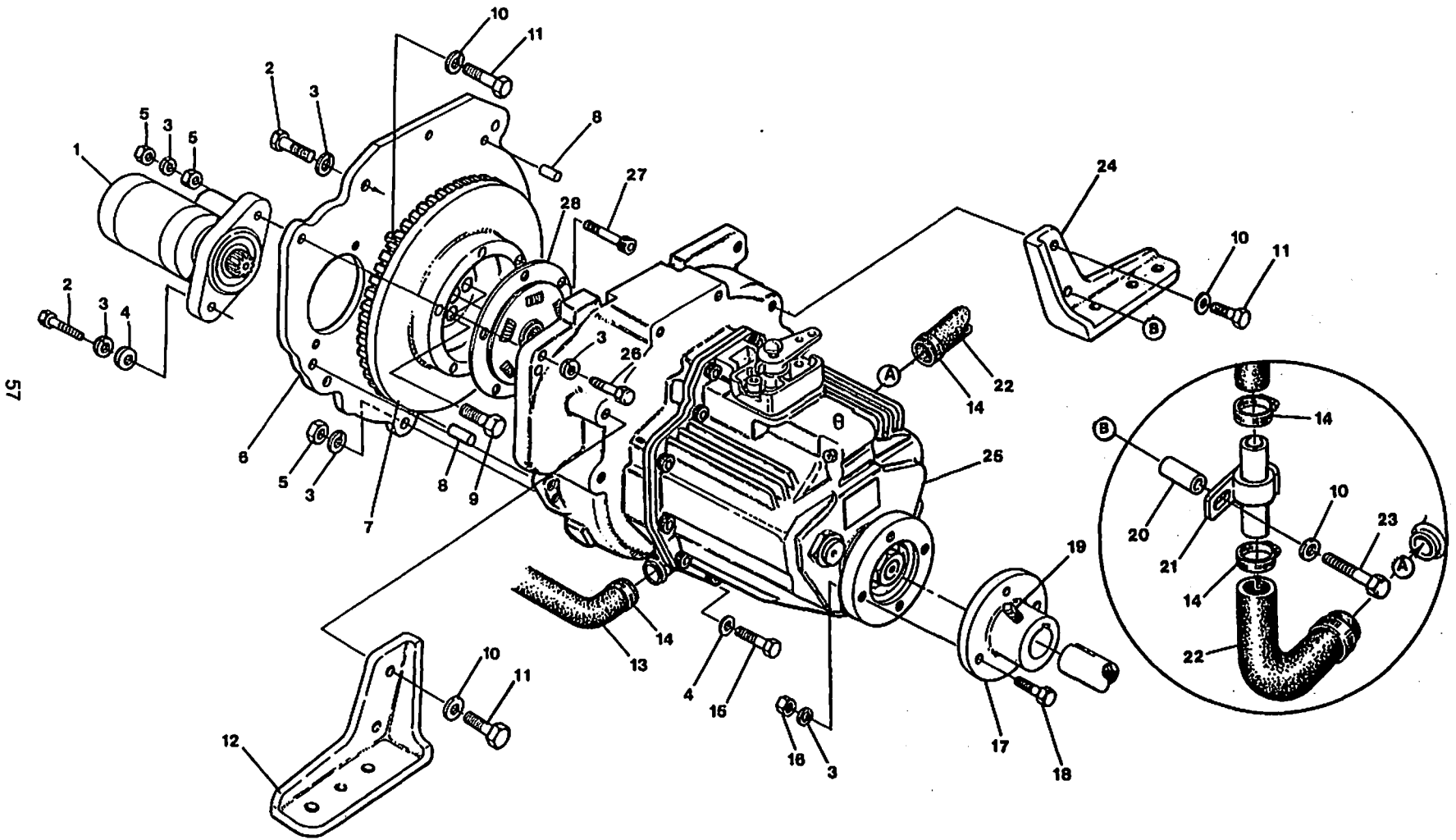


HBW (HURTH) TRANSMISSION - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	015887	NUT	M10 DIN 934	2
2	019262	LOCKWASHER	M10 DIN 127	12
3	031789	WASHER	M10 DIN 125	2
4	030593	MOTOR	STARTER 12 VDC	1
5	034589	CAPSCREW	M10 X 30 DIN 933	1
6	034833	CAPSCREW	M10 X 60 DIN 912	1
7	043097	HOUSING	FLYWHEEL	1
8	039830	COVER	STARTER ACCESS	1
9	039578	SCREW	M5 X 12 HEX WASHER HEAD	2
10	031792	LOCKWASHER	M12 DIN 127	6
11	031834	CAPSCREW	M12 X 1.25 X 30 DIN 961	6
12	041768	FLYWHEEL	W/GEAR RING 30230	1
13	033279	BOLT	FLYWHEEL	4
14	019398	DAMPER	HBW TRANSMISSION	1
15	024778	SCREW	DAMPER	5
16-1	020650	CAPSCREW	M8 X 18 DIN 933	6
16-2	018813	CAPSCREW	M10 X 20 DIN 933 - V-DRIVE	6
17-1	031786	LOCKWASHER	M8 DIN 127	6
17-2	019262	LOCKWASHER	M10 DIN 127 - V-DRIVE	6
18-1	039762	ADAPTER	TRANSMISSION TO HOUSING	1
18-2	040008	ADAPTER	TRANSMISSION TO HOUSING V-DRIVE	1
19	040407	ADAPTER	TRANSMISSION TO HSG-WARNER HYDRAULIC	1
20	013629	CAPSCREW	M10 X 25 DIN 933	10
21	024950	NUT	M10 X 1.25 DIN 934	4
22-1	023706	COUPLING	0.75 BORE	1
22-2	023707	COUPLING	0.875 BORE	1
22-3	023708	COUPLING	1.0 BORE	1
22-4	023709	COUPLING	1.125 BORE	1
22-5	023710	COUPLING	1.25 BORE	1
22-6	023711	COUPLING	1.375 BORE	1
22-7	023712	COUPLING	1.5 BORE	1
23	031228	CAPSCREW	M10 X 1.25 X 30 DIN 961	4
24-1	023450	SETSCREW	COUPLING 7/16NC X 1	2
24-2	023651	SETSCREW	COUPLING 3/8 NC X 3/4	2
24-3	023652	SETSCREW	COUPLING 3/8 NC X 1	2
25-1	030140	HBW GEAR	MODEL 100 1 . 5 : 1	1
25-2	024630	HBW GEAR	MODEL 100 1 . 8 : 1	1
25-3	046212	HBW GEAR	MODEL 125 2 . 1 : 1	1
25-4	030049	HBW GEAR	MODEL 125 2 . 6 : 1	1
25-5	043402	HBW GEAR	MODEL 150A 1 . 9 : 1	1
25-6	039586	HBW GEAR	MODEL 150A 2 . 5 : 1	1
26	030756	NUT	PILLAR	2
27	031847	NUT	10-32 SS HEX	2
28	031849	LOCKWASHER	10 SS	2
29	032161	BRACKET	SHIFT CABLE	1
30	013870	SHIM	CABLE CLAMP	1
31	013325	CLAMP	CABLE	1
32	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2
33	013630	CAPSCREW	M8 X 25 DIN 933	4
34	031786	LOCKWASHER	M8 DIN 127	6
35	030181	BRACKET	SHIFT CABLE TOP ENTRY V-DRIVE	1
36-1	031249	HBW GEAR	V-DRIVE 1 . 8 : 1	1
36-2	030048	HBW GEAR	V-DRIVE 2 . 1 : 1	1

HBW (HURTH) TRANSMISSION - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
37	011779	HOSE	1" WIRE INSERTED - INCHES REQUIRED	24
38	011405	CLAMP	HOSE 16	2
39	036622	NIPPLE	3/4NPT TO 1" HOSE	1
40	040036	COOLER	HBW TRANSMISSION HBW125 - 150 - 150A - 150	1
41	036614	ELBOW	3/8NPT TO 1" HOSE	1
42	017196	CAPSCREW	M8 X 20 DIN 933	4



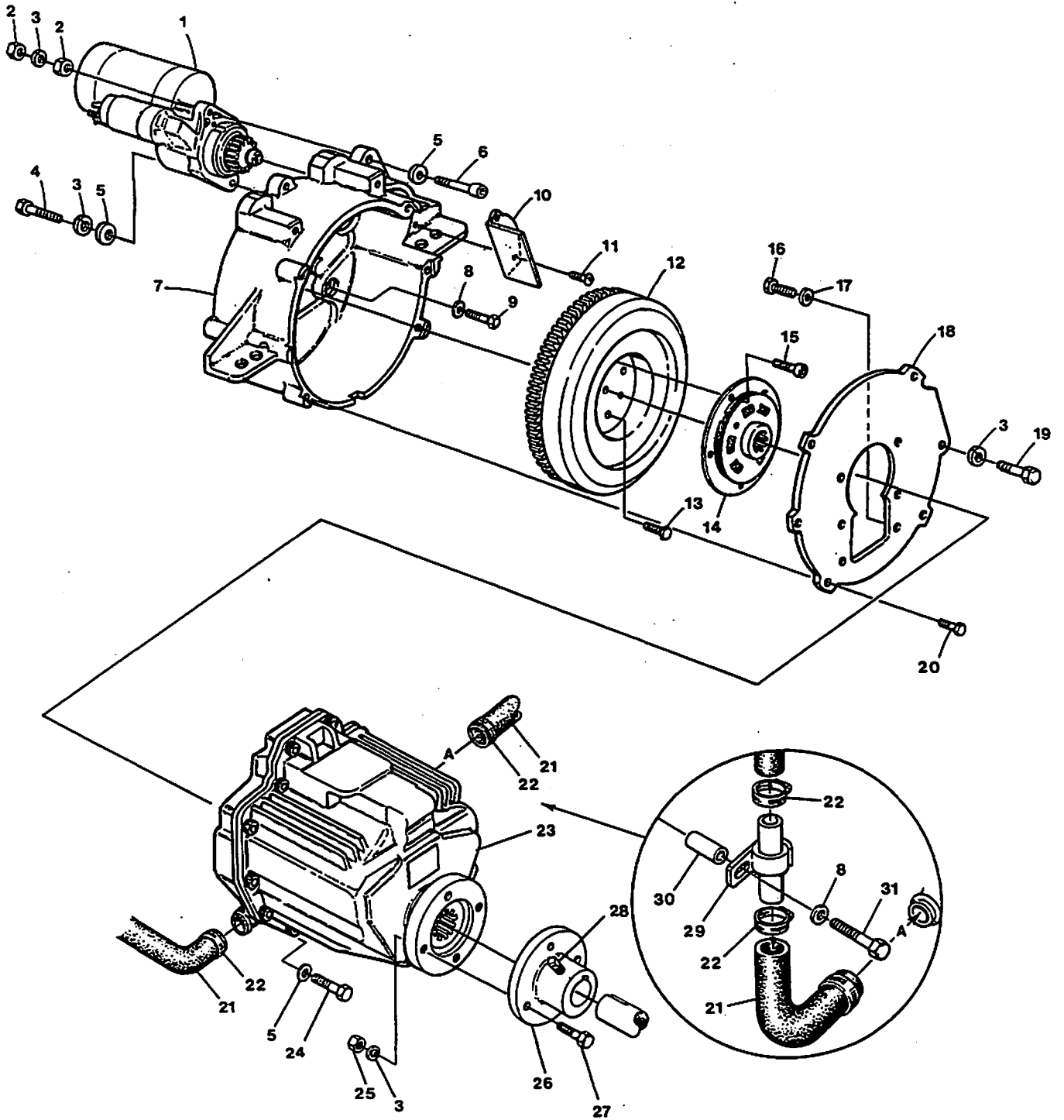
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JS TRANSMISSION (STANDARD) - 44A/B

JS TRANSMISSION (STANDARD) - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	030593	MOTOR	STARTER 12 VDC	1
2	034589	CAPSCREW	M10 X 30 DIN 933	5
3	019262	LOCKWASHER	M10 DIN 127	14
4	031789	WASHER	M10 DIN 125	5
5	015887	NUT	M10 DIN 934	4
6	043416	PLATE	BACK	1
7	041768	FLYWHEEL	INCLUDING RING GEAR 30230	1
8	013919	DOWEL	BACKPLATE TO HOUSING	2
9	033279	BOLT	FLYWHEEL	4
10	031792	LOCKWASHER	M12 DIN 127	12
11	031834	CAPSCREW	M12 X 1.25 X 30 DIN 961	11
12	042030	MOUNT	REAR LEFT	1
13	044379	HOSE	SEA WATER PUMP TO TRANSMISSION	1
14	011405	CLAMP	HOSE 16	4
15	034470	CAPSCREW	M10 X 45 DIN 931	2
16	024950	NUT	M10 X 1.25 DIN 934	4
17-1	023706	COUPLING	0.75 BORE	1
17-2	023707	COUPLING	0.875 BORE	1
17-3	023708	COUPLING	1.0 BORE	1
17-4	023709	COUPLING	1.125 BORE	1
17-5	023710	COUPLING	1.25 BORE	1
17-6	023711	COUPLING	1.375 BORE	1
17-7	023712	COUPLING	1.5 BORE	1
18	031228	CAPSCREW	M10 X 1.25 X 30 DIN 961	4
19-1	023651	SETSCREW	COUPLING 3/8 NC X 3/4	2
19-2	023652	SETSCREW	COUPLING 3/8 NC X 1	2
20	034189	SPACER	BRACKET	1
21	037504	CONNECTOR	INCLUDING BRACKET-SEA WATER INLET	1
22	037456	HOSE	TRANSMISSION TO CONNECTOR	1
23	037507	CAPSCREW	M12 X 1.25 X 80 DIN 960	1
24	042032	MOUNT	REAR RIGHT	1
25	035822	GEAR	MODEL JS 2 . 47 : 1	1
26	035307	CAPSCREW	M10 X 65 DIN 912	1
27	024778	SCREW	DAMPER	5
28	030940	DAMPER	BW/JS TRANSMISSION	1

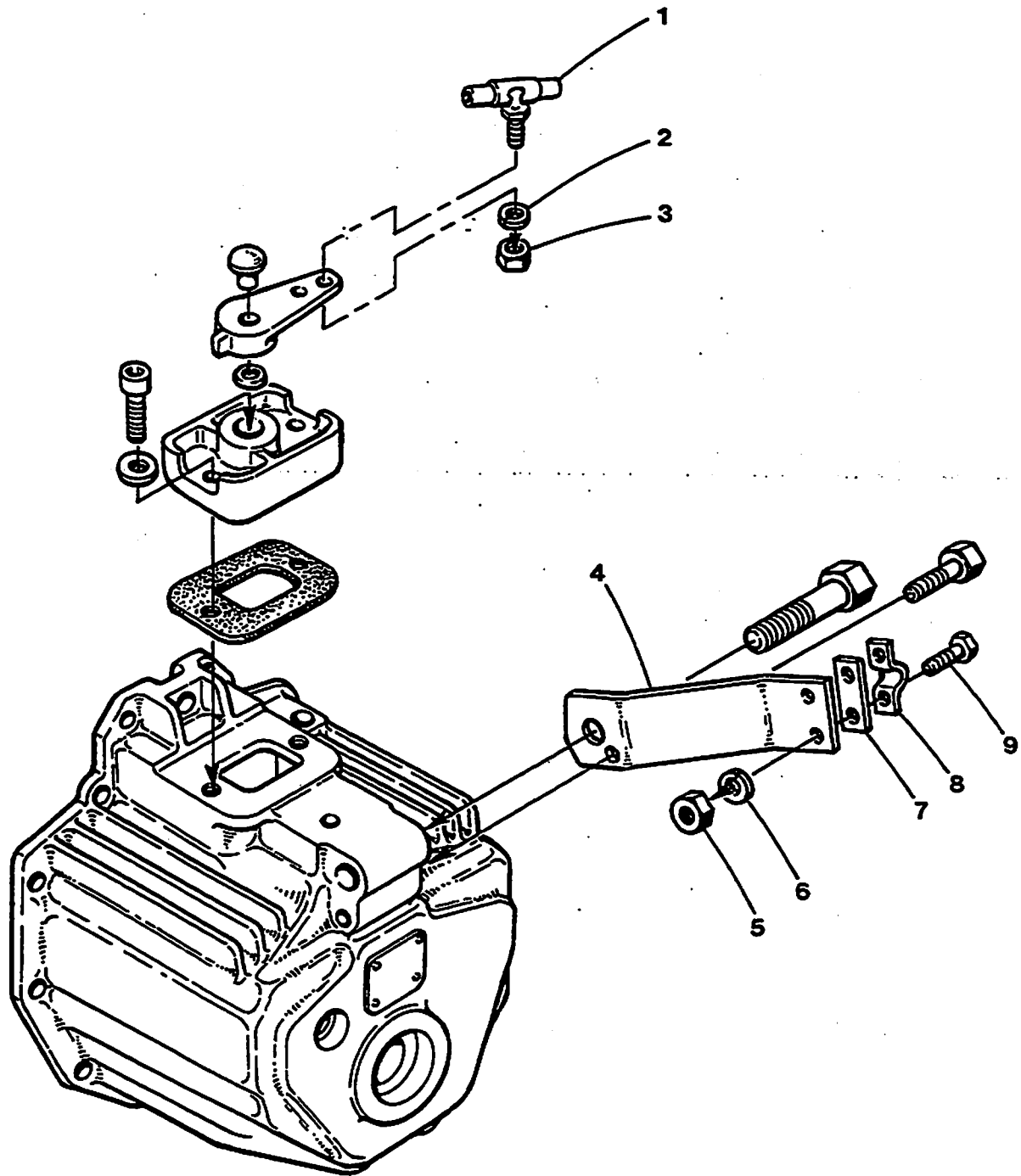
BW7 TRANSMISSION - 44A/B



BW7 TRANSMISSION - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	030593	MOTOR	STARTER 12 VDC	1
2	015887	NUT	M10 DIN 934	2
3	019262	LOCKWASHER	M10 DIN 127	11
4	034589	CAPSCREW	M10 X 30 DIN 933	1
5	031789	WASHER	M10 DIN 125	4
6	013631	CAPSCREW	M10 X 55 DIN 933	1
7	043097	HOUSING	FLYWHEEL	1
8	031792	LOCKWASHER	M12 DIN 127	7
9	031834	CAPSCREW	M12 X 1.25 X 30 DIN 961	6
10	039830	COVER	STARTER ACCESS	1
11	039578	SCREW	M5 X 12 HEX WASHER HEAD	2
12	041768	FLYWHEEL	INCLUDING RING GEAR 30230	1
13	033279	BOLT	FLYWHEEL	4
14	030940	DAMPER		1
15	024778	SCREW	DAMPER	5
16	020650	CAPSCREW	M8 X 18 DIN 933	6
17	031786	LOCKWASHER	M8 DIN 127	6
18	039762	ADAPTER	TRANSMISSION TO HOUSING	1
19	013629	CAPSCREW	M10 X 25 DIN 933	4
20	039218	CAPSCREW	M10 X 25 LOW HEAD	2
21	030166	HOSE	7/8 INCH	1
22	011405	CLAMP	HOSE 16	4
23-1	030951	BW7 GEAR	2 : 1	1
23-2	039906	BW7 GEAR	2 .47 : 1	1
24	034470	CAPSCREW	M10 X 45 DIN 931	2
25	024950	NUT	M10 X 1.25 DIN 934	4
26-1	023706	COUPLING	0.75 BORE	1
26-2	023707	COUPLING	0.875 BORE	1
26-3	023708	COUPLING	1.0 BORE	1
26-4	023709	COUPLING	1.125 BORE	1
26-5	023710	COUPLING	1.25 BORE	1
26-6	023711	COUPLING	1.375 BORE	1
26-7	023712	COUPLING	1.5 BORE	1
27	031228	CAPSCREW	M10 X 1.25 X 30 DIN 961	4
28-1	023652	SETSCREW	COUPLING 3/8 NC X 1	2
28-2	023651	SETSCREW	COUPLING 3/8 NC X 3/4	2
29	037504	CONNECTOR	INCLUDING BRACKET-SEA WATER INLET	1
30	034189	SPACER	BRACKET	1
31	037507	CAPSCREW	M12 X 1.25 X 80 DIN 960	1

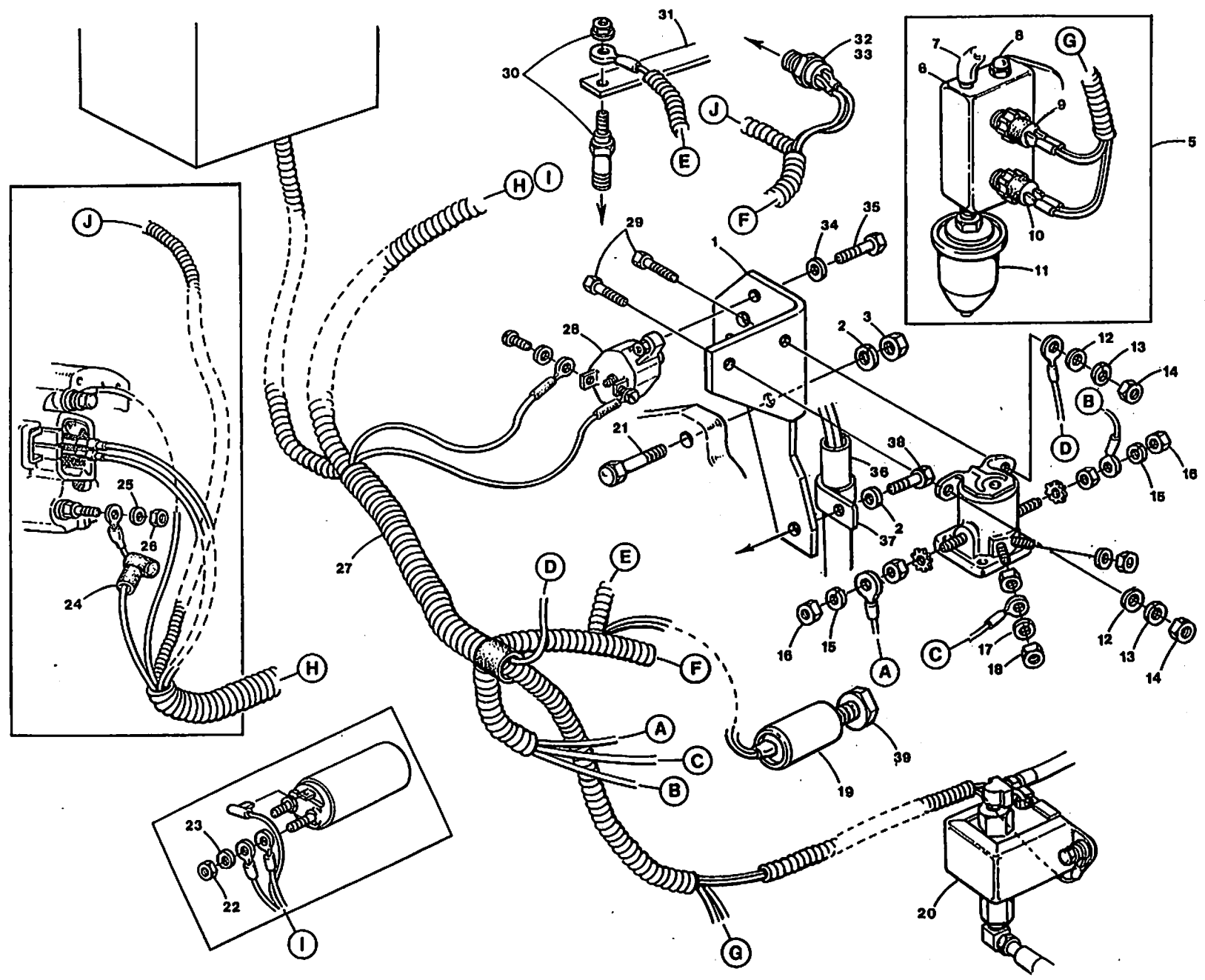
JS TRANSMISSION SHIFTING BRACKET - 44A/B



JS TRANSMISSION SHIFTING BRACKET - 44A/B

Reference #	Part #	Part Name	Remarks	Quantity
1	033482	BALLJOINT	SHIFT CABLE	1
2	031752	LOCKWASHER	1/4	1
3	031754	NUT	1/4 NF	1
4	031451	BRACKET	SHIFT CABLE	1
5	031847	NUT	10-32 SS HEX	2
6	031849	LOCKWASHER	10 SS	2
7	013870	SHIM	CABLE CLAMP	1
8	013325	CLAMP	CABLE	1
9	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2

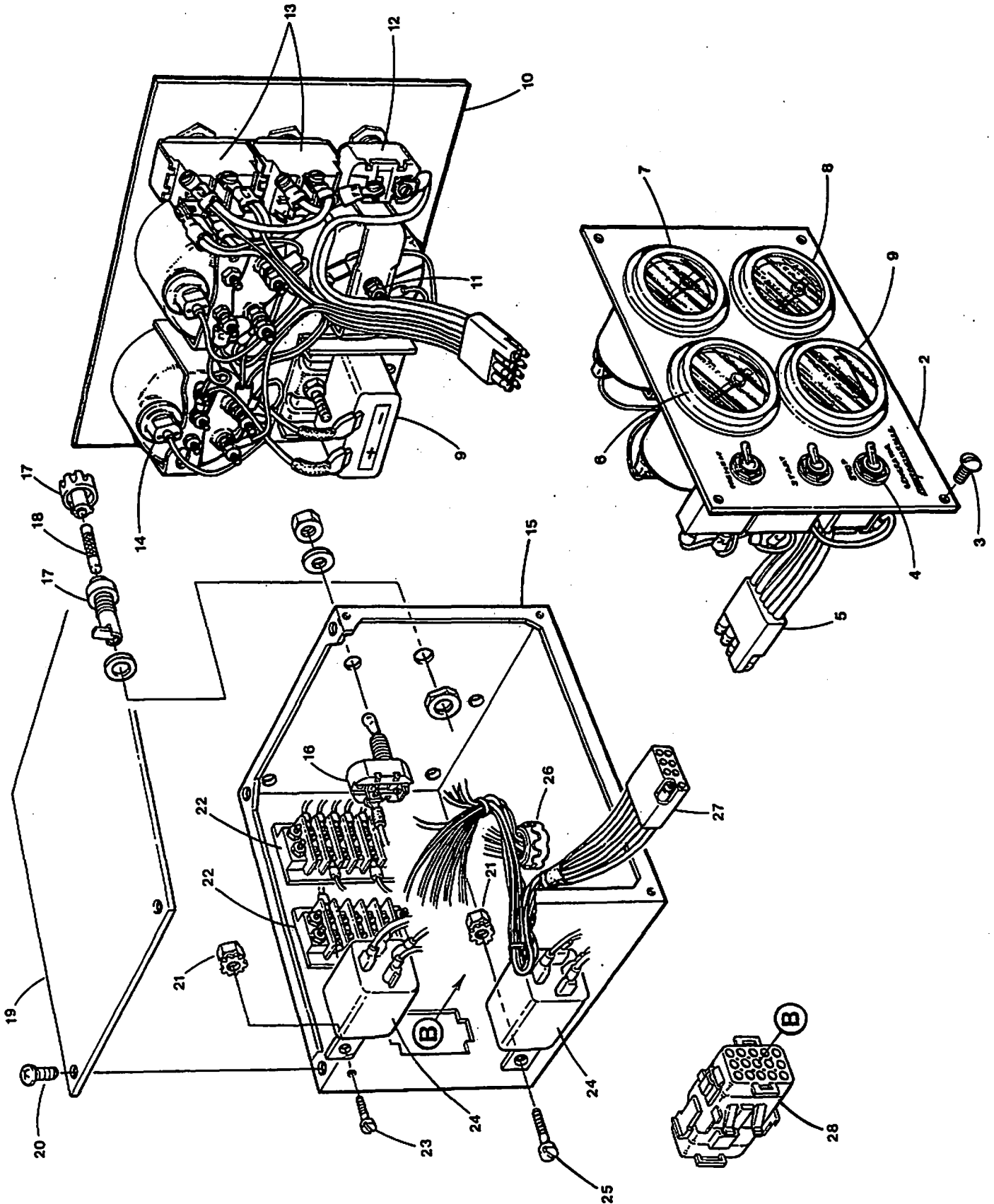
ELECTRICAL SYSTEM - 12.5 BTDB- 15.0 BTDC



ELECTRICAL SYSTEM - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	044364	BRACKET	SOLENOID-BREAKER	1
1-2	044248	BRACKET	SOLENOID-BREAKER UNGROUNDED UNITS	1
2	019262	LOCKWASHER	M10 DIN 127	3
3	015887	NUT	M10 DIN 934	2
4-1	024639	SOLENOID	PREHEAT 12 VDC	1
4-2	022249	SOLENOID	PREHEAT 24 VDC	1
4-3	011489	SOLENOID	PREHEAT & GROUND 12 VDC UNGROUNDED	2
4-4	022249	SOLENOID	PREHEAT & GROUND 24 VDC UNGROUNDED	2
6	043902	HEADER	OIL PRESSURE SENDER AND SWITCHES	1
7	015122	ELBOW	1/8NPT 45 STREET STEEL	1
8	019369	PLUG	1/8 NPT HEX HEAD BRASS	2
9	011552	SWITCH	OIL PRESSURE - AUXILIARY	1
10	037323	SWITCH	OIL PRESSURE	1
11-1	024132	SENDER	OIL PRESSURE 100 PSI 12 VDC	1
11-2	042161	SENDER	OIL PRESSURE 80 PSI 24 VDC	1
12	031753	WASHER	FLAT 1/4	2
13	031752	LOCKWASHER	1/4	2
14	031750	NUT	1/4NC	2
15	031758	LOCKWASHER	5/16	2
16	031760	NUT	5/16NF	2
17	031849	LOCKWASHER	10 SS	2
18	031847	NUT	10-32 SS HEX	2
19-1	037100	SOLENOID	FUEL SHUTOFF 12 VDC	1
19-2	044225	SOLENOID	FUEL SHUTOFF 24 VDC	1
19-3	044990	ACTUATOR	ELECTRONIC GOVERNOR 12 VDC	1
19-4	044991	ACTUATOR	ELECTRONIC GOVERNOR 24 VDC	1
20-1	039478	PUMP	FUEL LIFT 12 VDC	1
20-2	046631	PUMP	FUEL LIFT 24 VDC	1
21	034470	CAPSCREW	M10 X 45 DIN 931	2
22	018242	NUT	M8 DIN 934	2
23	031786	LOCKWASHER	M8 DIN 127	2
24	035449	BOOT		1
25	031784	WASHER	M6 DIN 125	2
26	015812	NUT	M6 DIN 934	2
27-1	044241	HARNESS	GENSET	1
27-2	044340	HARNESS	GENSET UNGROUNDED UNITS	1
28-1	024683	BREAKER	CIRCUIT 20 AMP 12 VDC	1
28-2	020946	BREAKER	CIRCUIT 10 AMP 24 VDC	1
29	031503	CAPSCREW	1/4 NC X 3/4	2
30-1	024353	GLOWPLUG	12 VDC	4
30-2	034467	GLOWPLUG	24 VDC	4
31	045266	STRAP	GLOWPLUG CONNECTING	1
32	039550	SWITCH	WATER TEMPERATURE	1
33	024602	ADAPTER	M16 X 1.5 TO 1/8 NPT	1
34	031843	WASHER	FLAT 8 SS AN960	2
35	043480	SCREW	8-32 X 7/8 SS HEX WASHER HEAD	2
36-1	046739	MODULE	CURRENT TIMING 9-36 VDC	1
36-2	046741	MODULE	CURRENT TIMING UNGROUNDED UNITS	1
37	013737	CLAMP	CABLE	1
38	034589	CAPSCREW	M10 X 30 DIN 933	1
39	034669	NUT	M30	1

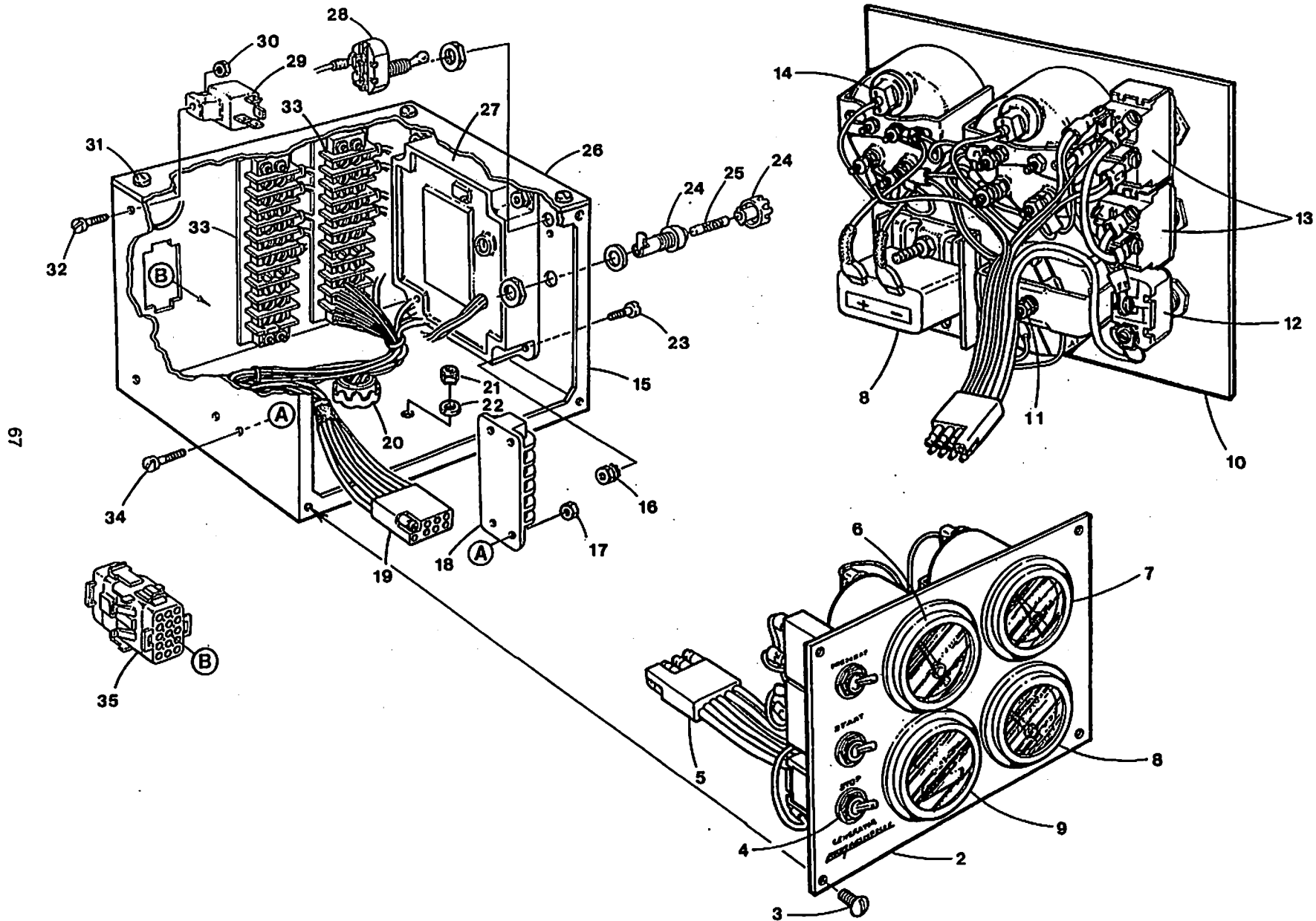
CONTROL PANEL - 12.5 BTDB- 15.0 BTDC



CONTROL PANEL - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	044360	PANEL	BOX & HARNESS 12 VDC	1
1-2	044877	PANEL	BOX & HARNESS 12 VDC UNGROUNDED	1
1-3	044363	PANEL	BOX & HARNESS 24 VDC	1
1-4	044878	PANEL	BOX & HARNESS 24 VDC UNGROUNDED	1
2-1	036539	PANEL	GENSET CONTROL 12 VDC	1
2-2	046775	PANEL	GENSET CONTROL 12 VDC UNGROUNDED	1
2-3	042162	PANEL	GENSET CONTROL 24 VDC	1
2-4	046776	PANEL	GENSET CONTROL 24 VDC UNGROUNDED	1
3	034421	SCREW	8-32 X 3/8 TRUSS HEAD BLACK SS	4
4	031999	RING	TOGGLE SWITCH MOUNT LOCKING	3
5-1	036538	HARNESS	GENSET PANEL	1
5-2	046885	HARNESS	PANEL UNGROUNDED	1
6-1	037601	METER	WATER TEMPERATURE 12 VDC	1
6-2	042158	METER	WATER TEMPERATURE 24 VDC	1
6-3	046754	METER	WATER TEMPERATURE 12/24 VDC UNGROUND	1
7-1	037603	METER	OIL PRESSURE 12 VDC	1
7-2	042157	METER	OIL PRESSURE 24 VDC 80 PSI	1
7-3	046674	METER	OIL PRESSURE 12/24 VDC UNGROUNDED	1
8-1	037605	VOLTMETER	12 VDC	1
8-2	042156	VOLTMETER	24 VDC	1
8-3	046755	VOLTMETER	12 VDC UNGROUNDED	1
8-4	046675	VOLTMETER	24 VDC UNGROUNDED	1
9-1	036192	HOURLMETER	12 VDC	1
9-2	042159	HOURLMETER	24 VDC	1
9-3	046676	HOURLMETER	12/24 VDC UNGROUNDED	1
10	034485	PLATE	PANEL	1
11	031904	NUT	10-24 KEPS SS	1
12	024731	SWITCH	STOP	1
13	024732	SWITCH	PREHEAT AND START	2
14-1	042893	LAMP	INSTRUMENT 12 VDC INCLUDING HOLDER	3
14-2	035825	WIRE	POWER TO METER LAMPS	3
14-3	045094	LAMP KIT	24 VDC	1
15	043840	BOX	GENSET CONTROL PANEL	1
16	033259	SWITCH	EMERGENCY STOP	1
17	043747	HOLDER	FUSE	1
18	033769	FUSE	8 AMP	1
19	040185	COVER	PANEL BOX	1
20	031891	SCREW	8-32 X 3/8 TRUSS HEAD SS	4
21	200125	NUT	10-32 KEPS	2
22	039928	BLOCK	TERMINAL 10 POSITION	2
23	031872	SCREW	10-32 X 1/2 SS BINDING HD	2
24-1	037833	RELAY	12 VDC	2
24-2	039858	RELAY	24 VDC	2
25	031872	SCREW	10-32 X 1/2 SS BINDING HD	2
26	023937	BUSHING		1
27	043737	HARNESS	GENSET PANEL BOX	1
28-1	043818	CONNECTOR	MALE JUMPER-IF REMOTE PNL NOT INSTALLED	1
28-2	043746	CONNECTOR	ASSEMBLY FEMALE FOR REMOTE PANEL	1
29	039461	RESISTOR	GAUGE 24 TO 12 VDC FOR UNGRND PANEL	2
30	041081	DIODE	NOT SHOWN	1

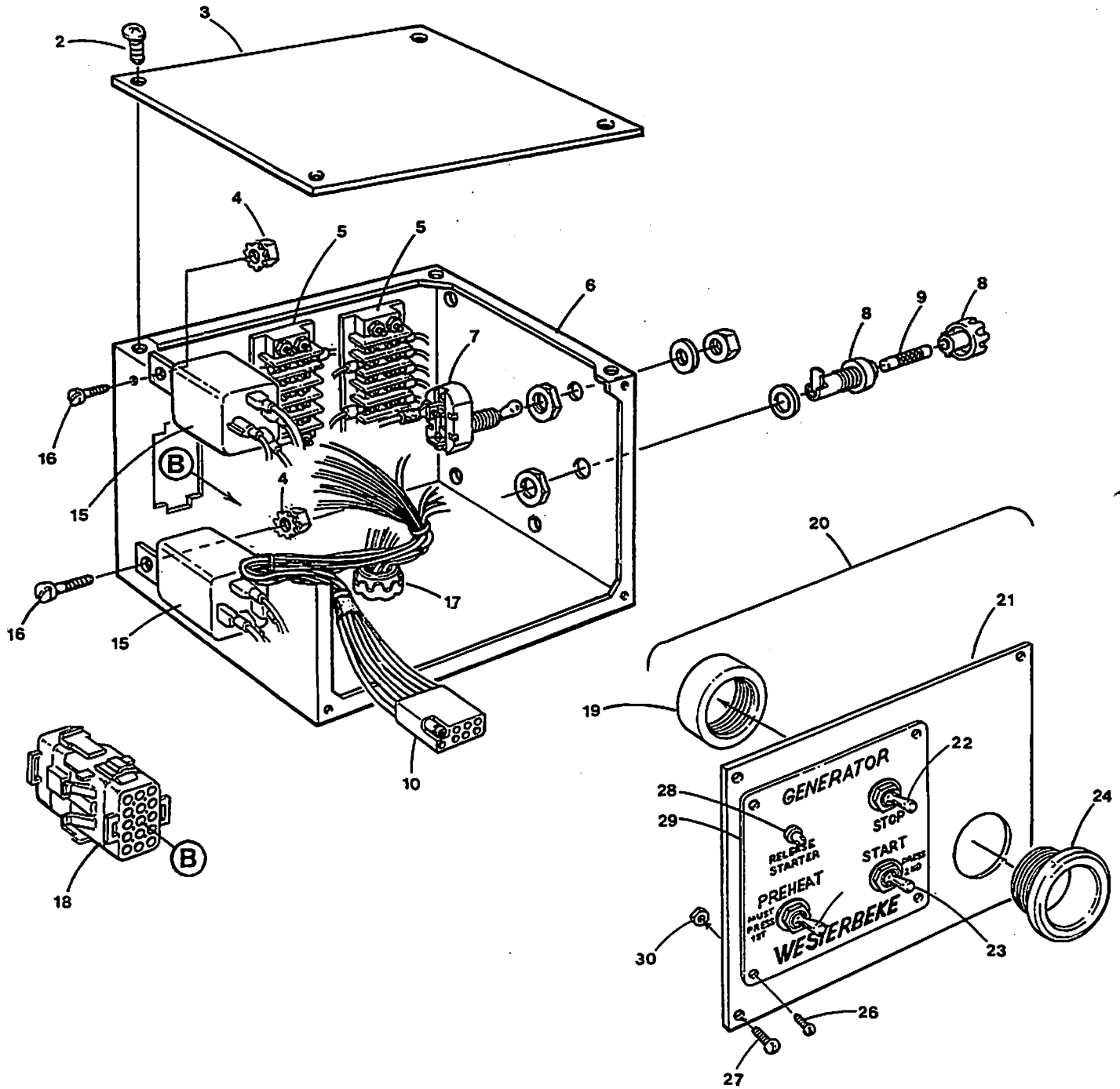
CONTROL PANEL - ELECTRONIC GOVERNOR - 12.5 BTDB - 15.0 BTDC



CONTROL PANEL - ELECTRONIC GOVERNOR - 12.5 BTDB - 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	044925	PANEL	BOX & HARNESS 12 VDC ELECTRONIC GOVER	1
1-2	044926	PANEL	BOX & HARNESS 24 VDC ELECTRONIC GOVER	1
2-1	036539	PANEL	GENSET CONTROL 12 VDC	1
2-2	042162	PANEL	GENSET CONTROL 24 VDC	1
3	034421	SCREW	8-32 X 3/8 TRUSS HEAD BLACK SS	4
4	031999	RING	TOGGLE SWITCH MOUNT LOCKING	3
5	036538	HARNESS	PANEL (12V & 24V)	1
6-1	037601	METER	WATER TEMPERATURE 12 VDC	1
6-2	042158	METER	WATER TEMPERATURE 24 VDC	1
7-1	037603	METER	OIL PRESSURE 12 VDC	1
7-2	042157	METER	OIL PRESSURE 24 VDC 80 PSI	1
8-1	037605	VOLTMETER	12 VDC	1
8-2	042156	VOLTMETER	24 VDC	1
9-1	036192	HOURLMETER	12 VDC	1
9-2	042159	HOURLMETER	24 VDC	1
10	034485	PLATE	PANEL	1
11	031904	NUT	10-24 KEPS SS	1
12	024731	SWITCH	STOP	1
13	024732	SWITCH	PREHEAT & START	2
14-1	042893	LAMP	INSTRUMENT 12 VDC INCLUDING HOLDER	3
14-2	035825	WIRE	POWER TO METER LAMPS	3
14-3	045094	LAMP KIT	24 VDC	1
15	043840	BOX	GENSET CONTROL PANEL	1
16	200125	NUT	10-32 KEPS	4
17	050234	NUT	6-32 KEPS	4
18-1	050201	BLOCK	TERMINAL	1
18-2	050374	MARKER	TERMINAL BLOCK	1
19	043737	HARNESS	GENSET PANEL BOX	1
20	023937	BUSHING		1
21	015812	NUT	M6 DIN 934	4
22	031783	LOCKWASHER	M6 DIN 127	4
23	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	4
24	043747	HOLDER	FUSE	1
25	033769	FUSE	8 AMP	1
26	040185	COVER	PANEL BOX	1
27-1	303008	CONTROLLER	GOVERNOR 12 VDC	1
27-2	039747	CONTROLLER	GOVERNOR 24 VDC	1
28	033259	SWITCH	EMERGENCY STOP	1
29-1	037833	RELAY	12 VDC	2
29-2	039858	RELAY	24 VDC	2
30	050234	NUT	6-32 KEPS	2
31	031891	SCREW	8-32 X 3/8 TRUSS HEAD SS	4
32	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	2
33	039928	BLOCK	TERMINAL 10 POSITION	2
34	031855	SCREW	6-32 X 5/8 SS BINDING HEAD	2
35-1	043818	CONNECTOR	MALE JUMPER-IF REMOTE PNL NOT INSTALLED	1
35-2	043746	CONNECTOR	ASSEMBLY FEMALE FOR REMOTE PANEL	1
36	041081	DIODE	NOT SHOWN	1

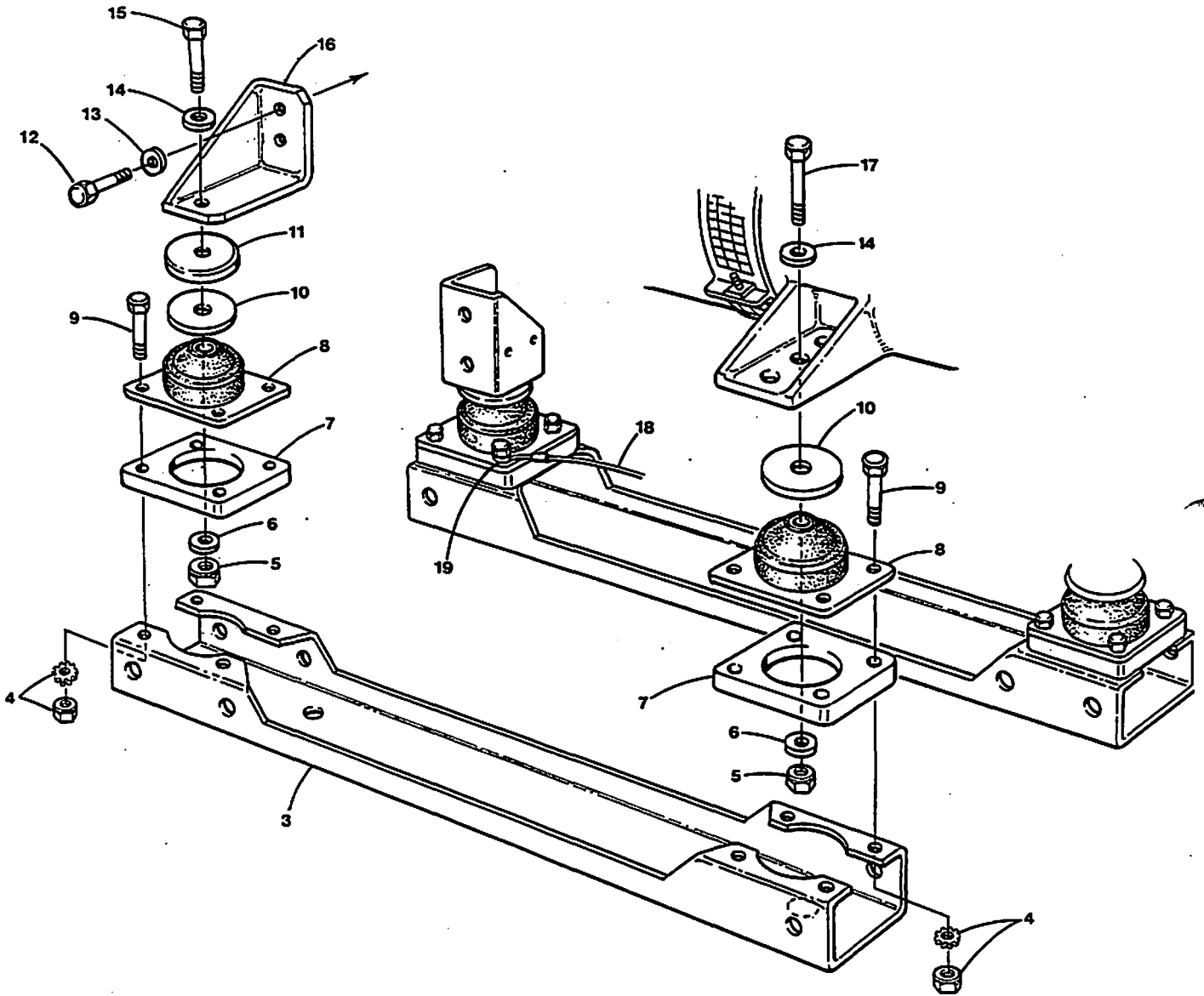
CONTROL PANEL - REMOTE START/STOP - 12.5 BTDB- 15.0 BTDC



CONTROL PANEL - REMOTE START/STOP - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	044360	PANEL	BOX & HARNESS 12 VDC	1
1-2	044363	PANEL	BOX & HARNESS 24 VDC (OPT'L)	1
2	031891	SCREW	8-32 X 3/8 TRUSS HEAD SS	4
3	040185	COVER	PANEL BOX	1
4	200125	NUT	10-32 KEPS	2
5	039928	BLOCK	TERMINAL 10 POSITION	2
6	043840	BOX	GENSET CONTROL PANEL	1
7	033259	SWITCH	EMERGENCY STOP	1
8	043747	HOLDER	FUSE	1
9	033769	FUSE	8 AMP	1
10	043737	HARNESS	GENSET PANEL BOX	1
15-1	037833	RELAY	12 VDC	2
15-2	039858	RELAY	24 VDC (OPT'L)	2
16	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	2
17	023937	BUSHING		1
18-1	043818	CONNECTOR	MALE JUMPER-IF REMOTE PNL NOT INSTALLED	1
18-2	043746	CONNECTOR	ASSEMBLY FEMALE FOR REMOTE PANEL	1
19	011812	BUSHING	INSULATED FEMALE 1.25	1
20-1	042448	PANEL	START-STOP 12 VDC	1
20-2	044826	PANEL	REMOTE CONTROL 12 VDC INCL HOURMETER	1
20-3	042620	PANEL	START-STOP 24 VDC INCL HOURMETER	1
21-1	043950	PLATE	PANEL BOX RED	1
21-2	043929	PLATE	PANEL BOX WHITE	1
22	024731	SWITCH	STOP	1
23	024732	SWITCH	PREHEAT & START	2
24	011811	BUSHING	INSULATED MALE 1.25	1
25	042388	HOURMETER	12/24 VDC	1
26	039004	SCREW	6-32 X 1/4 FLAT HEAD BLACK SS	4
27	034421	SCREW	8-32 X 3/8 TRUSS HEAD BLACK SS	4
28	032975	LED		1
29	024943	PANEL	REMOTE CONTROL	1
30	050234	NUT	6-32 KEPS	4
31	042447	CABLE	8 PIN FOR 42448 & 42620 (NOT SHOWN)	1
32-1	044442	DIAGRAM	WIRING START/STOP/HOURMETER	1
32-2	043909	DIAGRAM	WIRING PANEL42448	1
33	041081	DIODE	NOT SHOWN	1

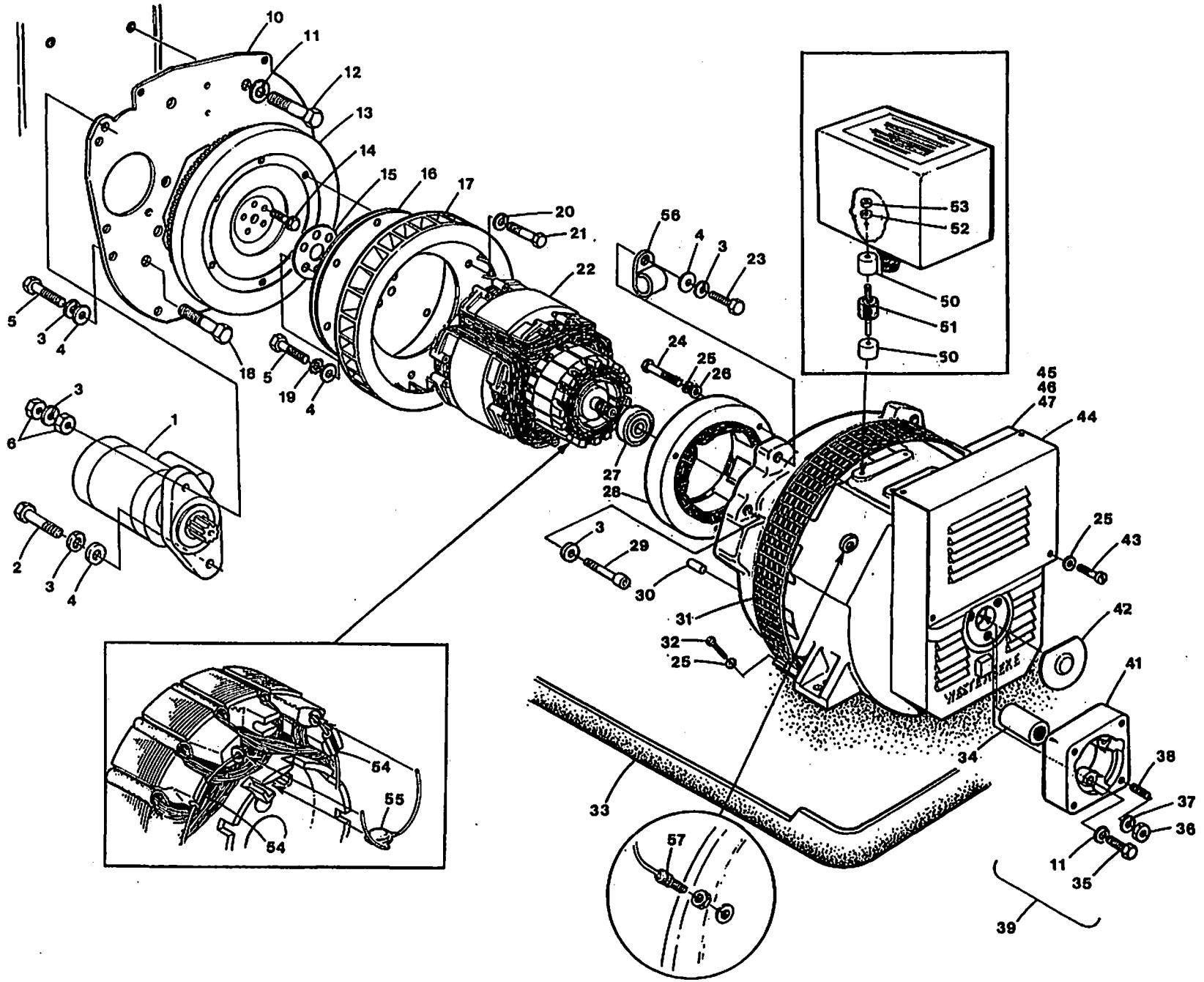
MOUNTING ASSEMBLY - 12.5 BTDB- 15.0 BTDC



MOUNTING ASSEMBLY - 12.5 BTDB- 15.0 BTDC

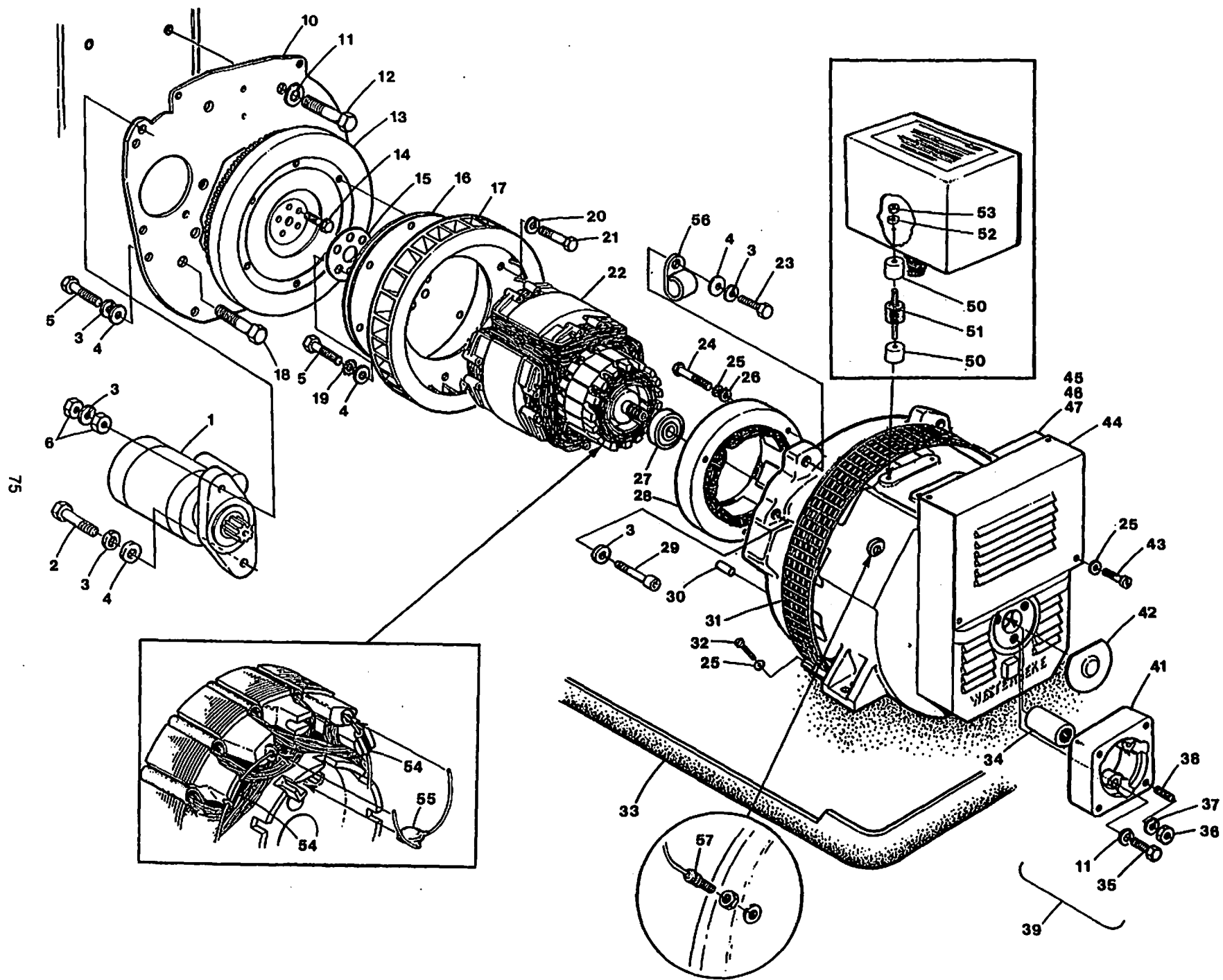
Reference #	Part #	Part Name	Remarks	Quantity
1	044362	RAIL ASSEMBLY	LEFT - INCL REF #S 3 - 9	1
2	044361	RAIL ASSEMBLY	RIGHT- INCL REF #S 3 - 9, & 18	1
3	043659	RAIL	GENSET	2
4	200127	NUT	5/16NC KEPS	16
5	031774	NUT	1/2NC	4
6	031776	LOCKWASHER	1/2	4
7	035271	PLATE	SPACER	4
8	015238	ISOLATOR		4
9	031557	CAPSCREW	5/16NC X 1-1/2	16
10	024674	WASHER	ISOLATOR SNUBBING	8
11	033530	SHIELD	ISOLATOR	2
12	024959	CAPSCREW	M12 X 1.25 X 25 DIN 961	4
13	031792	LOCKWASHER	M12 DIN 127	4
14	031777	WASHER	FLAT 1/2	4
15	031713	CAPSCREW	1/2NC X 3	2
16	043660	MOUNT	FRONT LEFT	1
17	031714	CAPSCREW	1/2NC X 3-1/4	2
18	034593	STRAP	GROUND	1
19	031759	WASHER	FLAT 5/16	1

BACK END - 12.5 BTDB- 15.0 BTDC



BACK END - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	030593	MOTOR	STARTER 12 VDC	1
1-2	042111	MOTOR	STARTER 24 VDC (OPT'L)	1
2	034589	CAPSCREW	M10 X 30 DIN 933	1
3	019262	LOCKWASHER	M10 DIN 127	13
4	031789	WASHER	M10 DIN 125	14
5	013629	CAPSCREW	M10 X 25 DIN 933	10
6	015887	NUT	M10 DIN 934	2
10	043409	PLATE	BACK	1
11	031792	LOCKWASHER	M12 DIN 127	11
12	031834	CAPSCREW	M12 X 1.25 X 30 DIN 961	8
13	043842	FLYWHEEL	INCLUDING RING GEAR 30230	1
14	033279	BOLT	FLYWHEEL	4
15	035928	PLATE	DRIVE DISC TO ARMATURE	1
16	035927	PLATE	DISC DRIVE	3
17	035929	FAN		1
18	024959	CAPSCREW	M12 X 1.25 X 25 DIN 961	2
19	031915	LOCKWASHER	M10 DIN 6797A	6
20	031786	LOCKWASHER	M8 DIN 127	8
21	017196	CAPSCREW	M8 X 20 DIN 933	8
22-1	037464	ARMATURE	1 PHASE 12.5 BTDB	1
22-2	037468	ARMATURE	1 PHASE 15.0 BTDC	1
22-3	039908	ARMATURE	3 PHASE	1
23	034590	CAPSCREW	M10 X 40 DIN 933	2
24	031919	CAPSCREW	M5 X 35 DIN 912	3
25	031914	LOCKWASHER	M5 DIN 6797A EXT	8
26	031781	WASHER	M5 DIN 125	3
27	037460	BEARING	BALL	1
28-1	037467	STATOR	EXCITER 1 PHASE	1
28-2	039912	STATOR	EXCITER 3 PHASE	1
29	013629	CAPSCREW	M10 X 25 DIN 933	1
30	019039	DOWEL		3
31	035935	GUARD	AIR	1
32	031920	SCREW	M5 X 20 DIN	1
33	037378	DRIPTRAY		1
34	037188	DRIVE	PTO SAE-B SPLINE	1
35	013589	CAPSCREW	M12 X 40 DIN 933	3
36	031774	NUT	1/2NC	4
37	031776	LOCKWASHER	1/2	4
38	034867	STUD	1/2NC	4
39	037134	KIT	PTO INCL. REF #S 11,35 THRU 39	1
40	037197	DRAWING	PTO INSTALLATION (NOT SHOWN)	1
41	034738	ADAPTER		1
42	036701	COVER	PTO INTERFACE	1
43	031918	SCREW	M5 X 10 DIN 84A	4
44	037851	COVER		1
45-1	037437	GENERATOR	12.5 KW 1 PHASE	1
45-2	037465	STATOR	INCLUDING HOUSING 12.5 KW 1 PHASE	1
45-3	037466	STATOR	12.5 KW 1 PHASE	1
46-1	037430	GENERATOR	15.0 KW 1 PHASE	1
46-2	037469	STATOR	INCLUDING HOUSING 15.0 KW 1 PHASE	1
46-3	037470	STATOR	15.0 KW 1 PHASE	1



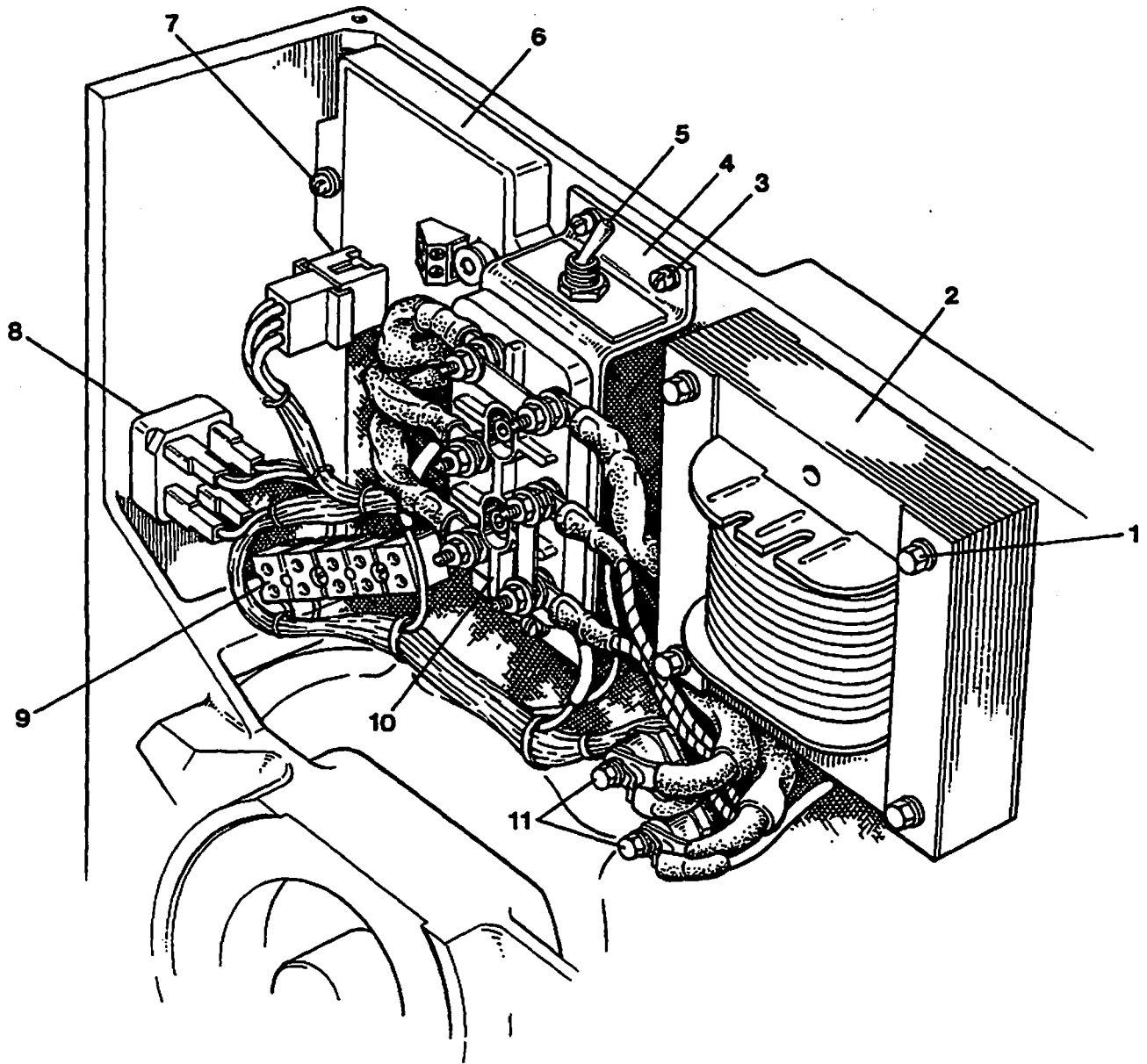
BACK END - 12.5 BTDB- 15.0 BTDC

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BACK END - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
47-1	039913	GENERATOR	12.5 - 15.0 KW 3 PHASE	1
47-2	039911	STATOR	INCLUDING HOUSING 12.5 - 15.0 KW 3 PHASE	1
47-3	038466	STATOR	12.5 - 15.0 KW 3 PHASE	1
48-1	046306	GENERATOR	12.5 KW 1 PHASE FOR ELECTRONIC GOVERNOR	1
49-1	046305	GENERATOR	15.0 KW 1 PHASE FOR ELECTRONIC GOVERNOR	1
50	024836	SPACER		8
51	034731	ISOLATOR	PANEL MOUNT	4
52	031783	LOCKWASHER	M6 DIN 127	4
53	015812	NUT	M6 DIN 934	4
54	035931	DIODE		6
55	035943	TERMINAL	INSULATED	1
56	013760	CLAMP		1
57	044989	SENSOR	MAGNETIC 3/8NF FOR ELECTRONIC GOVERNOR	1

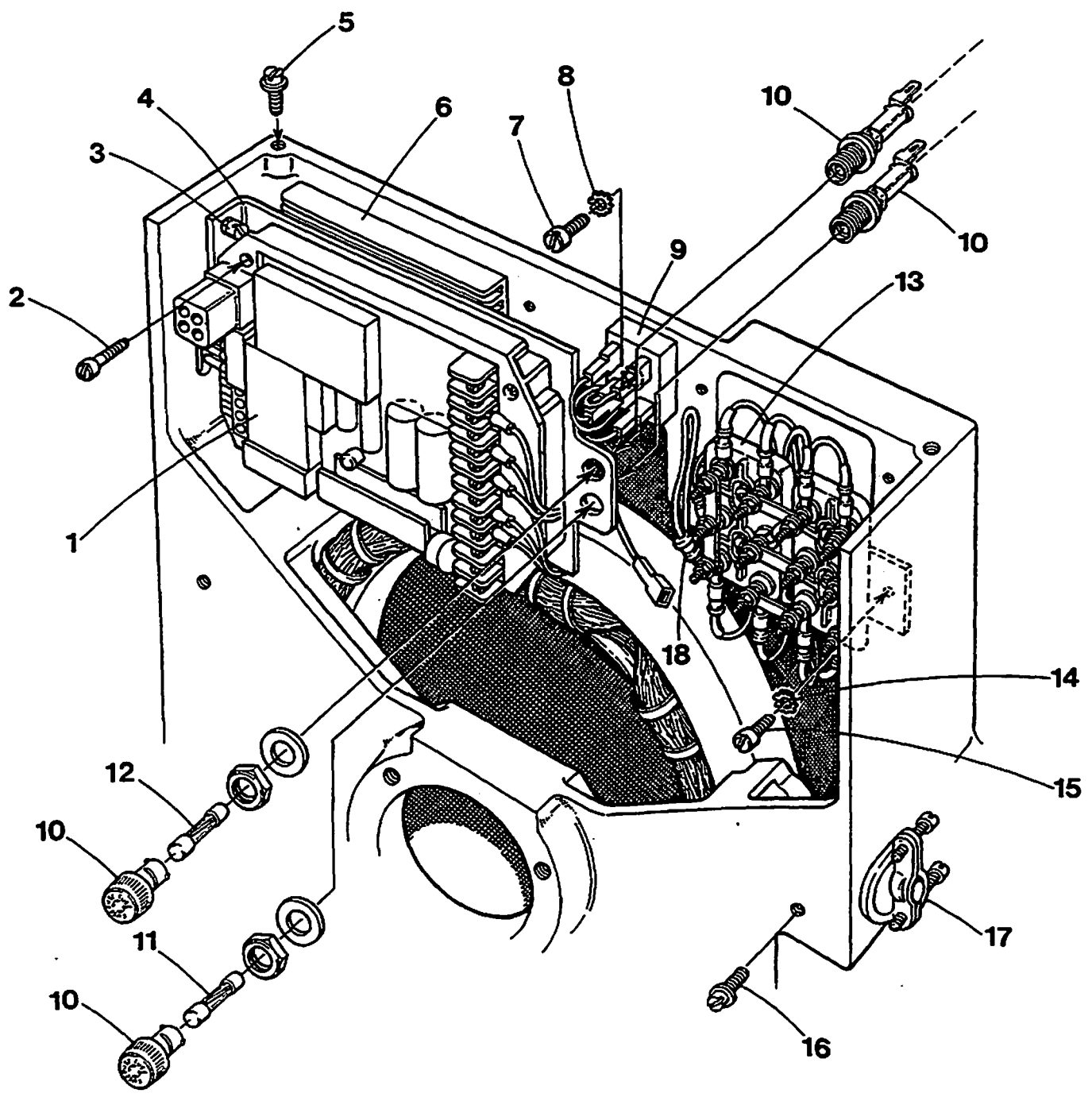
AC OUTPUT AND REGULATOR - SINGLE PHASE - 12.5 - 15.0



AC OUTPUT AND REGULATOR - SINGLE PHASE - 12.5 - 15.0

Reference #	Part #	Part Name	Remarks	Quantity
1-1	031916	CAPSCREW	M5 X 50 DIN 933	4
1-2	031914	LOCKWASHER	M5 DIN 6797A	4
1-3	031781	WASHER	M5 DIN 125	4
2	037463	TRANSFORMR	VOLTAGE REGULATION	1
3-1	031718	CAPSCREW	M5 X 10 DIN 84A	2
3-2	031914	LOCKWASHER	M5 DIN 6797A	2
4	038345	BRACKET		1
5	038346	SWITCH	REGULATION SELECTION	1
6	034410	REGULATOR	ELECTRONIC VOLTAGE (OPT'L)	1
7-1	031917	LOCKWASHER	M4 DIN 6797A	2
7-2	031934	SCREW	M4 X 20 DIN 84A	2
8-1	043649	RECTIFIER	BRIDGE	1
8-2	031931	SCREW	M5 X 15 DIN 84A	1
8-3	031914	LOCKWASHER	M5 DIN 6797A	1
9	038347	BLOCK	TERMINAL 5 POLE	1
10-1	038342	BLOCK	TERMINAL AC OUTPUT	1
10-2	038343	NUT	M6 BRASS	6
10-3	038344	BAR	BUSS	1
11	035943	TERMINAL	INSULATED	2
12	036702	LABEL	AC OUTPUT CONNECTIONS (NOT SHOWN)	1

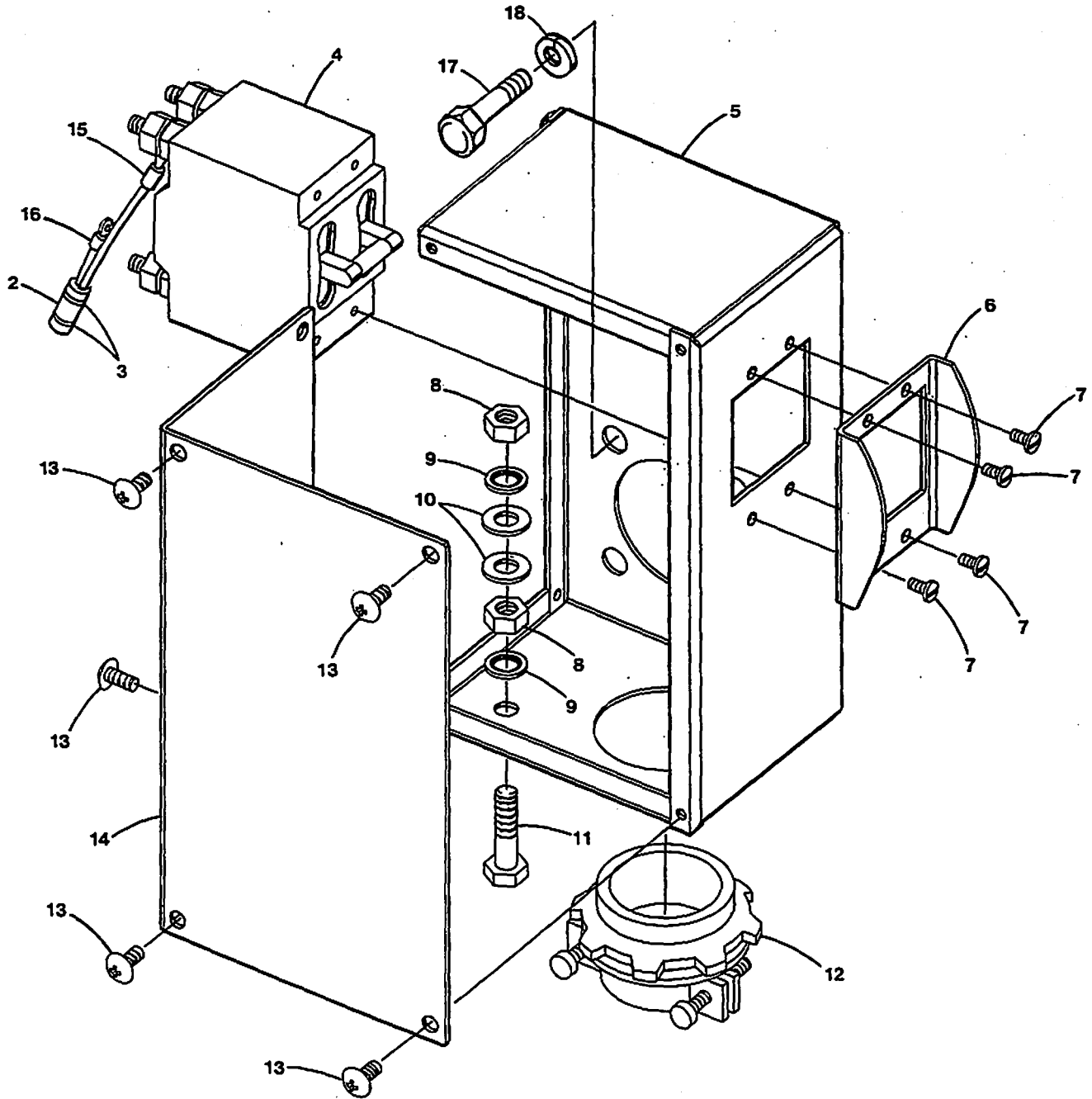
AC OUTPUT AND REGULATOR -THREE PHASE-12.5 BTDB -15.0 BTDC



AC OUTPUT AND REGULATOR -THREE PHASE-12.5 BTDB -15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	038468	REGULATOR	ELECTRONIC VOLTAGE	1
2	031934	SCREW	M4 X 20 DIN 84A	2
3	031918	SCREW	M5 X 10 DIN 84A	2
4	038470	BRACKET	REGULATOR	1
5	031918	SCREW	M5 X 10 DIN 84A	2
6	038469	CHARGER	BATTERY	1
7	031920	SCREW	M5 X 20 DIN	1
8	031914	LOCKWASHER	M5 DIN 6797A	1
9	043649	RECTIFIER	BRIDGE	1
10	038472	HOLDER	FUSE	2
11	038471	FUSE	20 AMP	1
12	033769	FUSE	8 AMP	1
13-1	038464	BLOCK	TERMINAL AC OUTPUT	1
13-2	038348	NUT	M5 BRASS	12
13-3	038349	BAR	BUSS	4
14	031914	LOCKWASHER	M5 DIN 6797A	2
15	031920	SCREW	M5 X 20 DIN 84A	2
16	015816	CAPSCREW	M6 X 10 DIN 933	2
17	036737	CONNECTOR	BOX 1-1/2 - AC OUTPUT LEADS	1
18	038676	LABEL	AC OUTPUT CONNECTIONS (NOT SHOWN)	1
19	039341	BRACKET	AC TERMINAL BLOCK (NOT SHOWN)	1

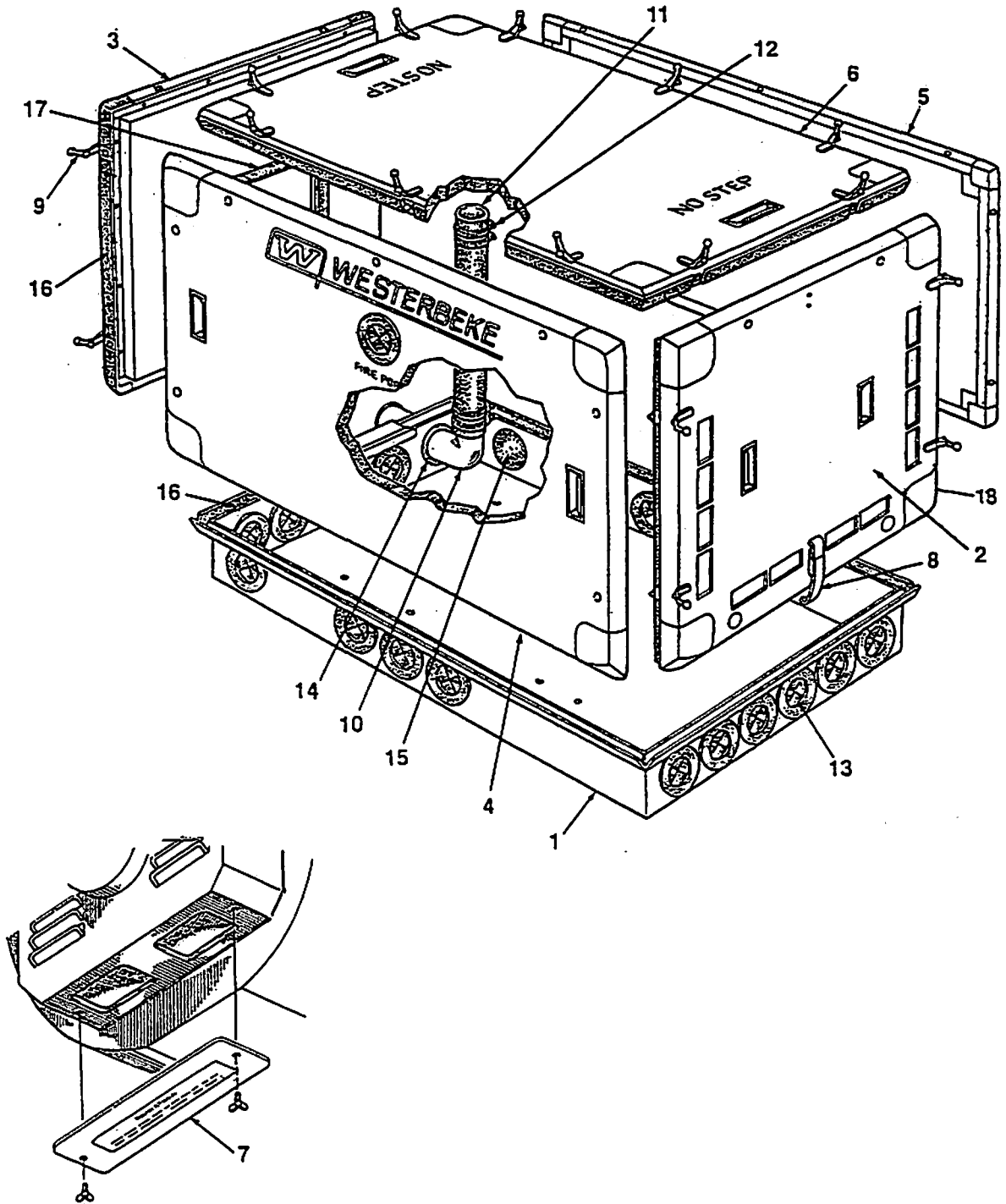
CIRCUIT BREAKER ASSEMBLY- 12.5 BTDB- 15.0 BTDC



CIRCUIT BREAKER ASSEMBLY- 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1-1	038619	KIT	AC OUTPUT CIRCUIT BREAKER 12.5 KW 60HZ	1
1-2	038620	KIT	AC OUTPUT CIRCUIT BREAKER 15.0 KW 60HZ	1
1-3	042316	KIT	AC OUTPUT CIRCUIT BREAKER 9.4 KW 50HZ	1
1-4	042317	KIT	AC OUTPUT CIRCUIT BREAKER 12.0 KW 50HZ	1
2	030067	CONDUIT	FLEX-GARD - INCHES REQUIRED	4
3	013776	TIEWRAP	3.5" LONG	2
4-1	042709	BREAKER	CIRCUIT 60 AMP 12.5 KW 60HZ	1
4-2	042710	BREAKER	CIRCUIT 70 AMP 15.0 KW 60HZ	1
4-3	042708	BREAKER	CIRCUIT 40 AMP 9.4 KW 50HZ	1
4-4	042709	BREAKER	CIRCUIT 60 AMP 12.0 KW 60HZ	1
5	043722	BOX	CIRCUIT BREAKER	1
6	039082	GUARD	CIRCUIT BREAKER HANDLE	1
7	031852	SCREW	6-32 X 1/4 SS BINDING HEAD	4
8	032498	NUT	1/4NC BRASS	2
9	032493	LOCKWASHER	1/4 INTERNAL TOOTH BRONZE	2
10	032499	WASHER	FLAT 1/4 BRASS	2
11	038622	CAPSCREW	1/4NC X 1 BRONZE FULLY THREADED	1
12	036737	CONNECTOR	BOX 1-1/4" INSULATED	1
13	031891	SCREW	8-32 X 3/8 TRUSS HEAD SS	6
14	043723	COVER	BREAKER BOX 43722	1
15-1	038643	WIRE	GEN TO BRKR BLACK 6GA 12.5-15.0 KW 60HZ	2
15-2	042340	WIRE	GEN TO BRKR BLACK 10GA 9.4 KW 50HZ	1
15-3	042626	WIRE	GEN TO BRKR BLACK 8GA 12.0 KW 50HZ	1
16-1	044242	WIRE	GEN TO BOX WHITE 4GA 12.5-15.0 KW 60HZ	1
16-2	038646	WIRE	GEN TO BRKR WHITE 10GA 9.4 KW 50HZ	1
16-3	038934	WIRE	GEN TO BRKR WHITE 8GA 12.0 KW 50HZ	1
17	044243	CAPSCREW	M8 X 14 DIN 933	4
18	031786	LOCKWASHER	M8 DIN 127	4
19	042719	DIAGRAM	AC OUTPUT & CIRCUIT BREAKER WIRING	1

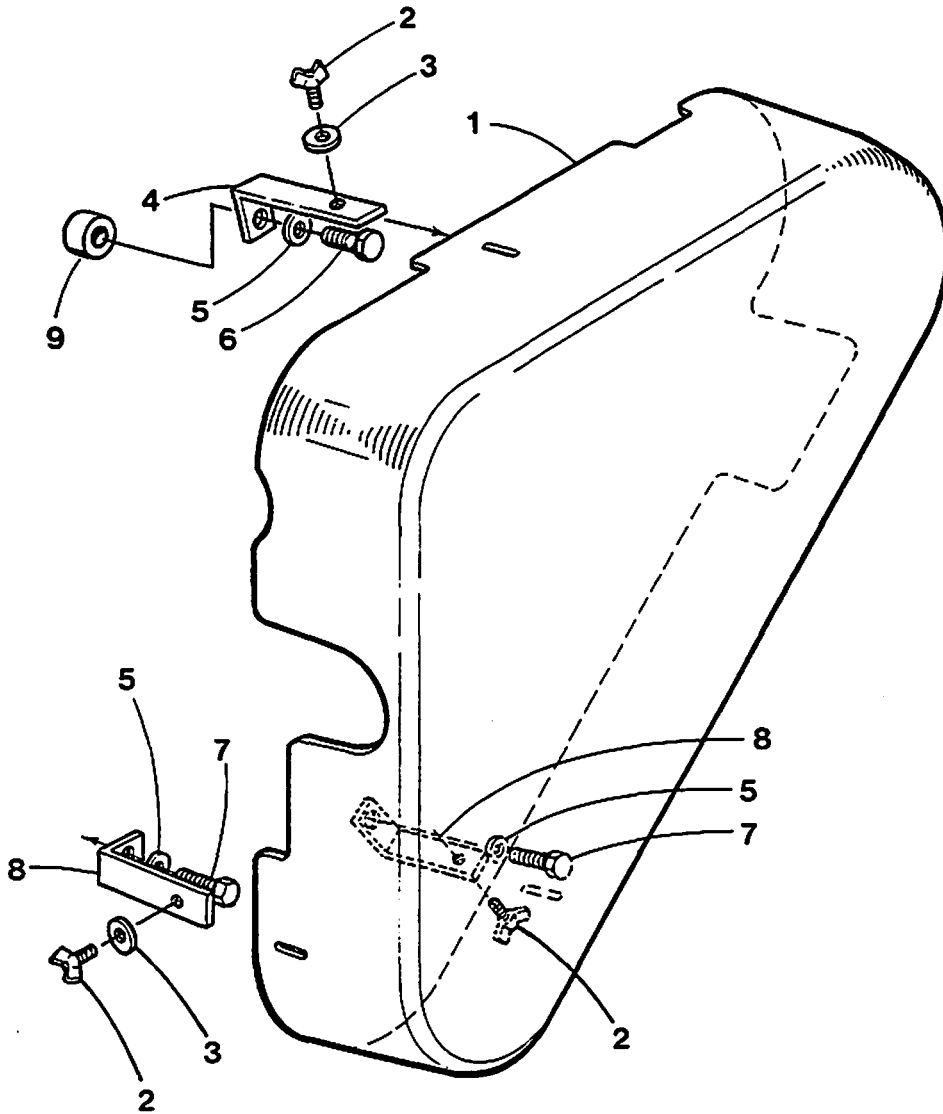
SOUNDGUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC



SOUNDGUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	043446	BASE	SOUNDGUARD	1
2	043448	PANEL	SOUNDGUARD FRONT	1
3	043449	PANEL	SOUNDGUARD REAR	1
4	047642	PANEL	SOUNDGUARD SERVICE SIDE	1
5	043445	PANEL	SOUNDGUARD SIDE	1
6	043447	PANEL	SOUNDGUARD TOP	1
7	037298	COVER KIT	BOTTOM OF GENSET VENT- INCL. SCREWS	1
8	044080	CLASP		2
9	043775	LATCH	NEOPRENE	18
10	046729	ELBOW	EXHAUST OUTLET 70 DEG	1
11	030901	HOSE	2" WIRE INSERTED - INCHES REQUIRED	19
12	011411	CLAMP	HOSE 32	4
13	039498	BUSHING	2.5 INCH HOLE	16
14	042782	GROMMET	SOUNDGUARD BASE EXHAUST ELBOW	1
15	044065	PLUG	BUTTON	1
16	043248	GASKET	PANEL EDGE SEAL - INCHES REQUIRED	66
17	043574	GASKET	NEOPRENE - INCHES REQUIRED	32
18	042638	CORNER	PANEL	20

BELT GUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC



BELT GUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC

Reference #	Part #	Part Name	Remarks	Quantity
1	044365	GUARD	BELT	1
2	033228	SCREW	WING 10-32 X 1/2	3
3	033372	WASHER	FLAT	3
4-1	044168	BRACKET	BELT GUARD TOP	1
4-2	033699	BRACKET	BELT GUARD TOP 24 VDC (OPT'L)	1
5	031849	LOCKWASHER	10 SS	3
6	024983	CAPSCREW	M8 X 75 DIN 931	1
7	024949	CAPSCREW	M8 X 50 DIN 931	2
8-1	037828	BRACKET	BELT GUARD	2
8-2	037828	BRACKET	BELT GUARD LEFT 24 VDC (OPT'L)	1
8-3	044894	BRACKET	BELT GUARD RIGHT 24 VDC (OPT'L)	1
9	042225	SPACER		1

MISCELLANEOUS AND EXTRA AVAILABLE OPTIONS



MISCELLANEOUS AND EXTRA AVAILABLE OPTIONS

Reference #	Part #	Part Name	Remarks	Quantity
1	046420	KIT A	SPARE PARTS	1
2	047158	KIT B	SPARE PARTS-EXTEND CRUISING	1
3	046903	GASKET SET	COMPLETE	1
4	046902	GASKET SET	UPPER	1
5	044068	DIPSTICK	EXTENSION KIT - OPTIONAL	1
6	046419	KIT	FUEL HARDWARE	1
7	044085	PULLEY KIT	ACCESSORY 3 GROOVE CRANKSHAFT	1
8	044436	MOUNT KIT	FIELD INSTALLATION FOR COMPRESSOR	1
9-1	045498	GOVERNOR	KIT 12 VDC - CONVERTS TO ELECT GOVNR	1
9-2	045499	GOVERNOR	KIT 24 VDC - CONVERTS TO ELECT GOVNR	1
10	032974	FILTER	PRIMARY FUEL SEPARATOR	1
11	015010	STRAINER	RAW WATER	1
12	033327	VALVE	ANTI-SIPHON	1
13-1	013758	PAINT	RED AEROSOL SPRAY CAN	1
13-2	042307	PAINT	WHITE AEROSOL SPRAY CAN	1
14	043474	MUFFLER	HYDRO-HUSH FIBERGLASS	1
15	020654	SPLITTER	ALTERNATOR OUTPUT	1
16-1	030760	HARNESS	15 FT. PANEL EXTENSION 8 PIN	1
16-2	036557	HARNESS	15 FT. PANEL EXTENSION 4 PIN	1
16-3	044347	HARNESS	15 FT. PANEL EXTENSION 15 PIN	1
16-4	044799	HARNESS	30 FT. PANEL EXTENSION 15 PIN	1
17	040078	FILTER KIT	REMOTE LUBE OIL	1
18	024177	TANK KIT	REMOTE FRESH WATER EXPANSION	1
19-1	045100	MANUAL	SERVICE	1
19-2	044180	MANUAL	OPERATOR 44A/B	1
19-3	044800	MANUAL	OPERATOR 12.5 BTDB - 15.0 BTDC	1
20-1	044735	DIAGRAM	GENSET WIRING 12/24 VDC	1
20-2	044807	DIAGRAM	GENSET WIRING 12/24 VDC UNGROUNDED	1
20-3	044927	DIAGRAM	GENSET WIRING 12/24 VDC W/ ELECT GOVNR	1
20-4	044970	DIAGRAM	GENSET WIRING UNGRNDED W/ ELECT GOVNR	1

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013340	29	19	015887	59	2	019262	57	3
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