



***For Your Convenience: This Westerbeke
File Is Shared By Diesel Parts Direct***



YOUR ONE STOP SUPERSTORE FOR DIESEL ENGINE PARTS

SHOP NOW

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

October 2002



**WESTERBEKE CORPORATION
150 JOHN HANCOCK ROAD
TAUNTON, MA 02780-7319 U.S.A.
WWW.WESTERBEKE.COM**

Table of Contents

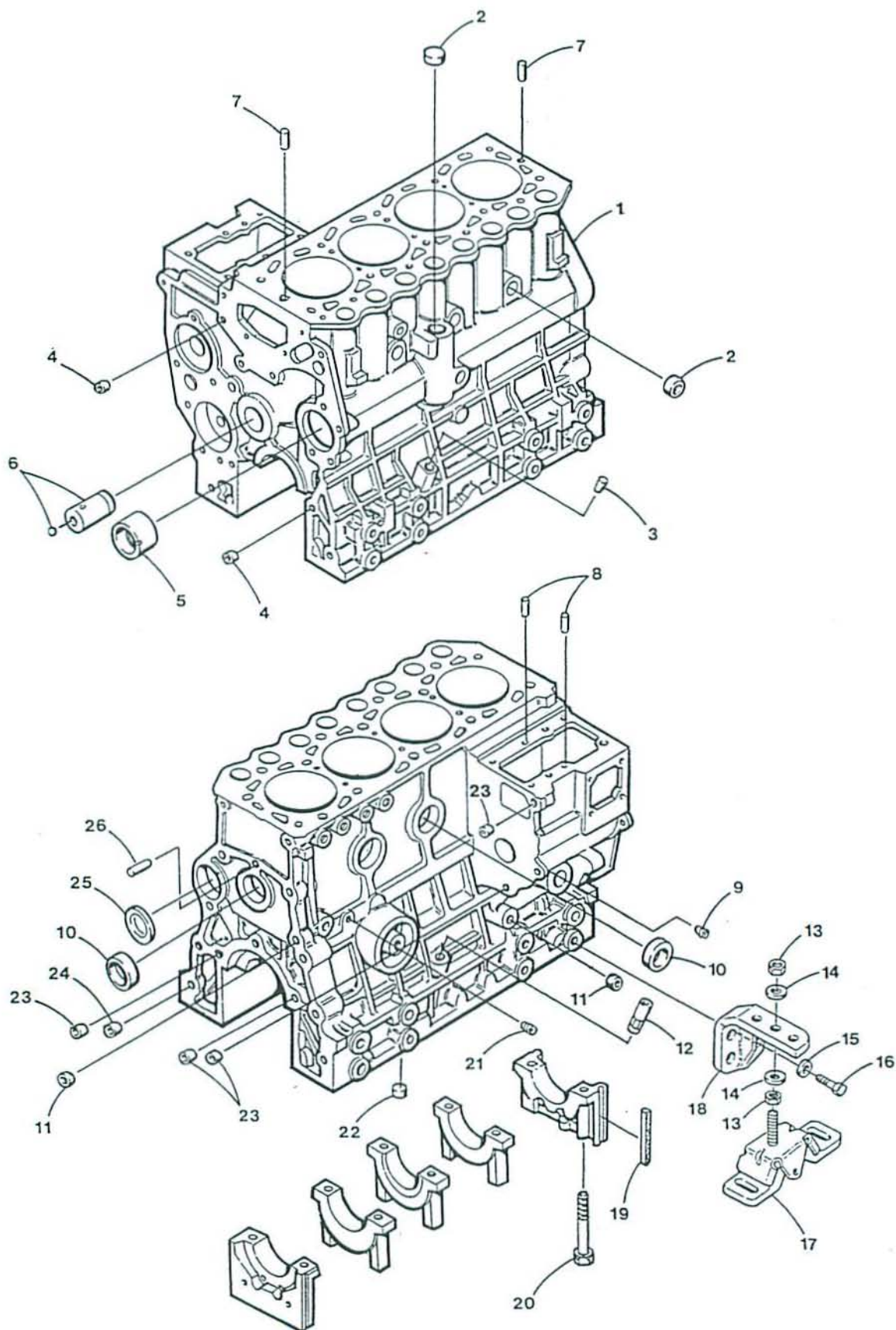
44A/B PROPULSION DIESEL ENGINE
12.5 BTDB/15.0 BTDC 60 HZ DIESEL GENERATORS
9.4 BTDB/12.0 BTDC 50 HZ DIESEL GENERATORS

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	

Page	Description
1	CYLINDER BLOCK & CRANKCASE ASSEMBLY 44A/B - 12.5 - 15.0
3	CYLINDER HEAD - 44A/B - 12.5 BTDB- 15.0 BTDC
5	VALVE MECHANISM - 44A/B - 12.5 BTDB- 15.0 BTDC
7	ROCKER COVER & CAMSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC
9	CRANKCASE - 44A/B - 12.5 BTDB- 15.0 BTDC
11	PISTONS & CRANKSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC
13	TIMING GEAR CASE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC
15	INLET MANIFOLD & AIR INTAKE SILENCER - 44A/B - 12.5 - 15.0
17	OIL SYSTEM - 44A/B - 12.5 BTDB- 15.0 BTDC
19	OIL PUMP - 44A/B - 12.5 BTDB- 15.0 BTDC
21	OIL COOLER ASSEMBLY & FILTER - 44A/B - 12.5 BTDB- 15.0 BTDC
23	REMOTE LUBE OIL FILTER ASSY - 44A/B - 12.5 BTDB- 15.0 BTDC
25	FUEL SYSTEM & NOZZLE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC
27	FUEL LIFT PUMP & FUEL FILTER - 44A/B
29	FUEL LIFT PUMP & FUEL FILTER - 12.5 BTDB- 15.0 BTDC
31	THROTTLE ASSEMBLY- 44A/B
33	GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC
35	GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC
37	EXHAUST MANIFOLD & HEAT EXCHANGER - 44A/B
39	EXHAUST MANIFOLD & HEAT EXCHANGER - 12.5 BTDB- 15.0 BTDC
41	REMOTE COOLANT TANK & EXHAUST ELBOWS -44A/B -12.5 - 15.0
43	COOLING SYSTEM & FRESH WATER PUMP-44A/B-12.5 BTDB-15.0 BTDC
45	RAW WATER PUMP - 44A/B - 12.5 BTDB- 15.0 BTDC
47	ALTERNATOR ASSEMBLY-50/72/90 AMP - 44A/B-12.5 BTDB-15.0 BTDC
49	ELECTRICAL SYSTEM - 44A/B
51	CONTROL PANELS - 44A/B
53	HBW (HURTH) TRANSMISSION - 44A/B
55	HBW (HURTH) TRANSMISSION - 44A/B
57	JS TRANSMISSION (STANDARD) - 44A/B
59	BW7 TRANSMISSION - 44A/B
61	JS TRANSMISSION SHIFTING BRACKET - 44A/B
63	ELECTRICAL SYSTEM - 12.5 BTDB- 15.0 BTDC
65	CONTROL PANEL - 12.5 BTDB- 15.0 BTDC
67	CONTROL PANEL - ELECTRONIC GOVERNOR - 12.5 BTDB - 15.0 BTDC
69	CONTROL PANEL - REMOTE START/STOP - 12.5 BTDB- 15.0 BTDC
71	MOUNTING ASSEMBLY - 12.5 BTDB- 15.0 BTDC

73 BACK END - 12.5 BTDB- 15.0 BTDC
75 BACK END - 12.5 BTDB- 15.0 BTDC
77 AC OUTPUT AND REGULATOR - SINGLE PHASE - 12.5 - 15.0
79 AC OUTPUT AND REGULATOR -THREE PHASE-12.5 BTDB -15.0 BTDC
81 CIRCUIT BREAKER ASSEMBLY- 12.5 BTDB- 15.0 BTDC
83 SOUNDGUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC
85 BELT GUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC
87 MISCELLANEOUS AND EXTRA AVAILABLE OPTIONS

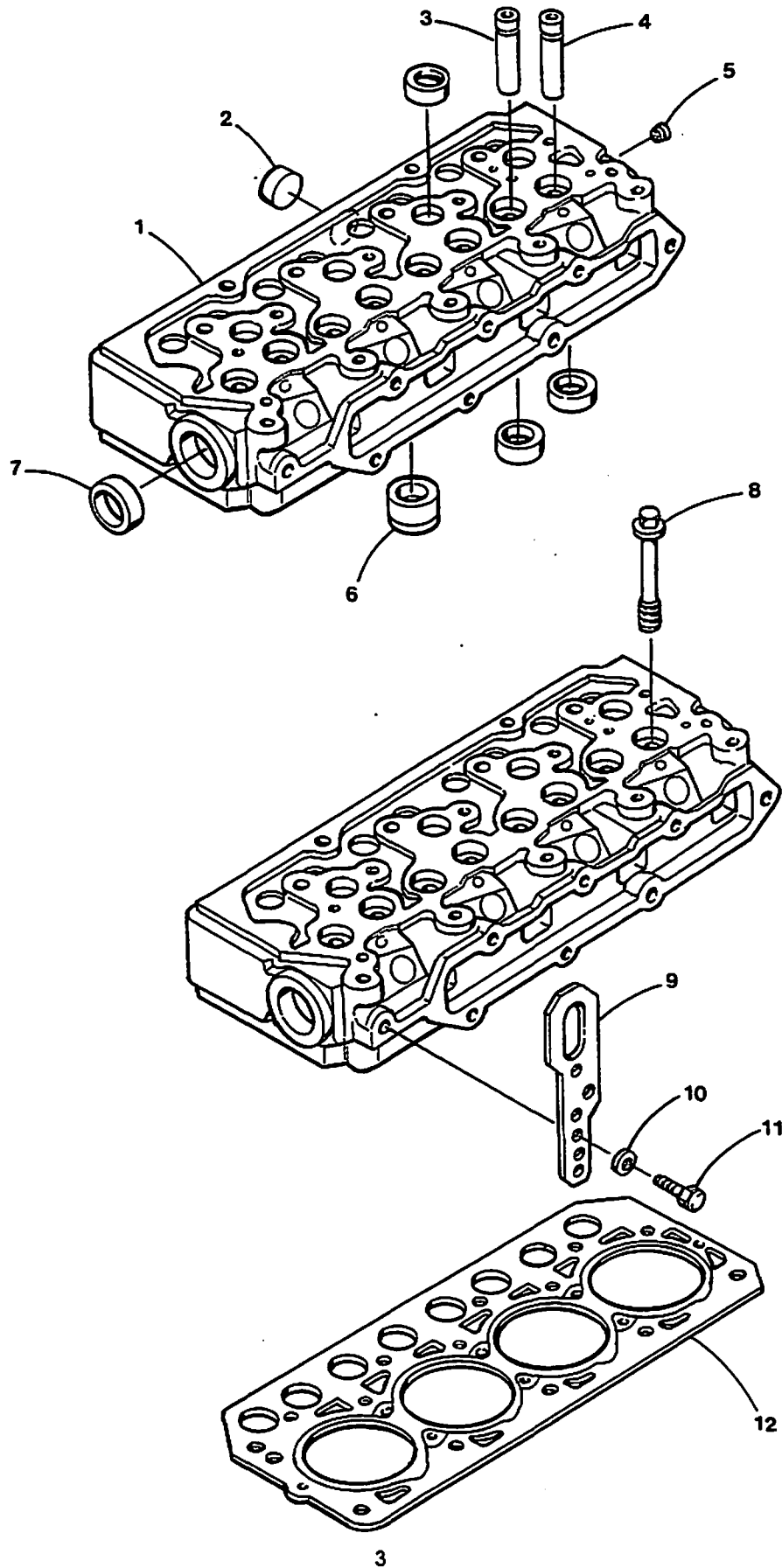
CYLINDER BLOCK & CRANKCASE ASSEMBLY 44A/B - 12.5 - 15.0



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

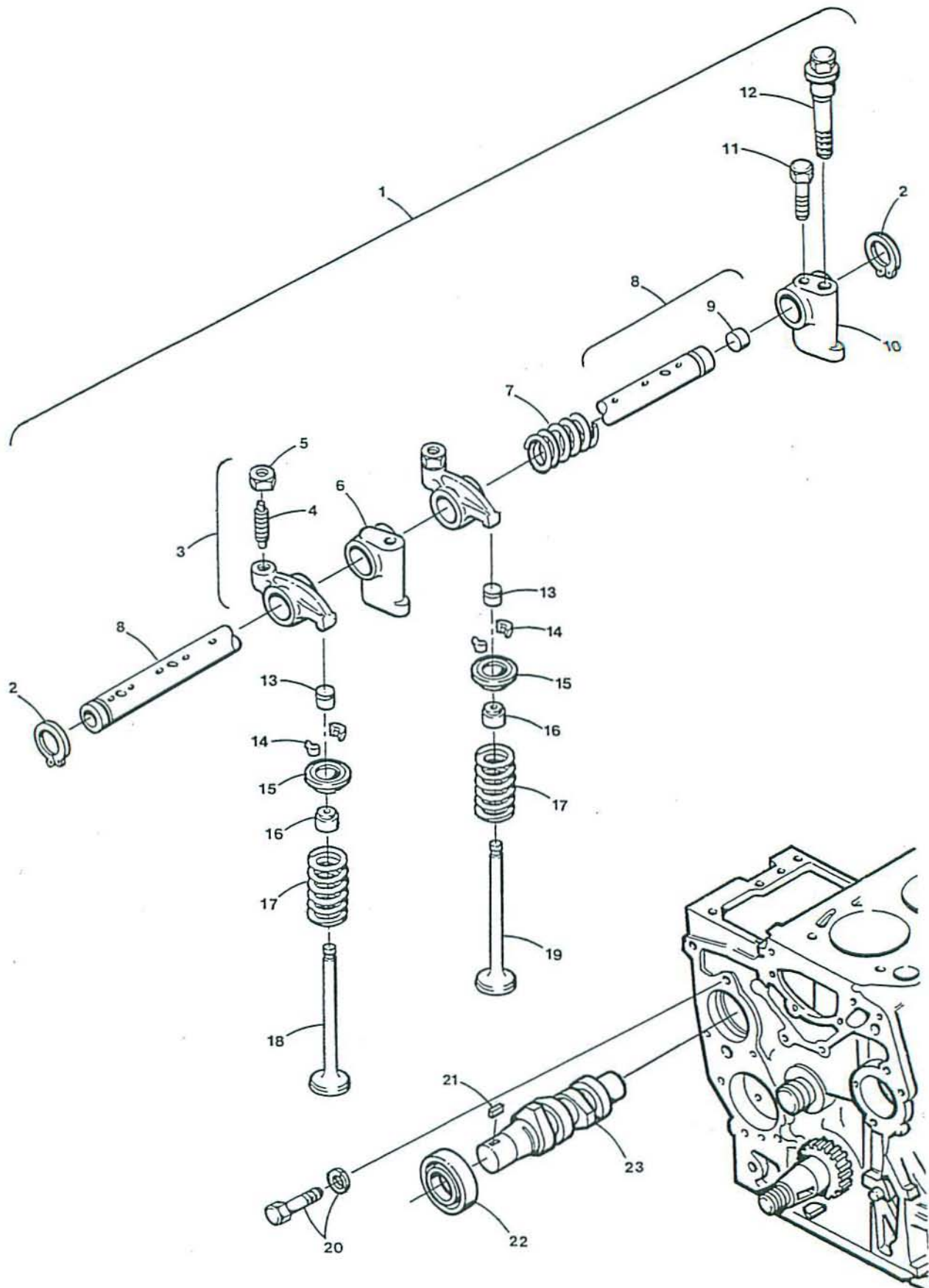
CYLINDER HEAD - 44A/B - 12.5 BTDB- 15.0 BTDC



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

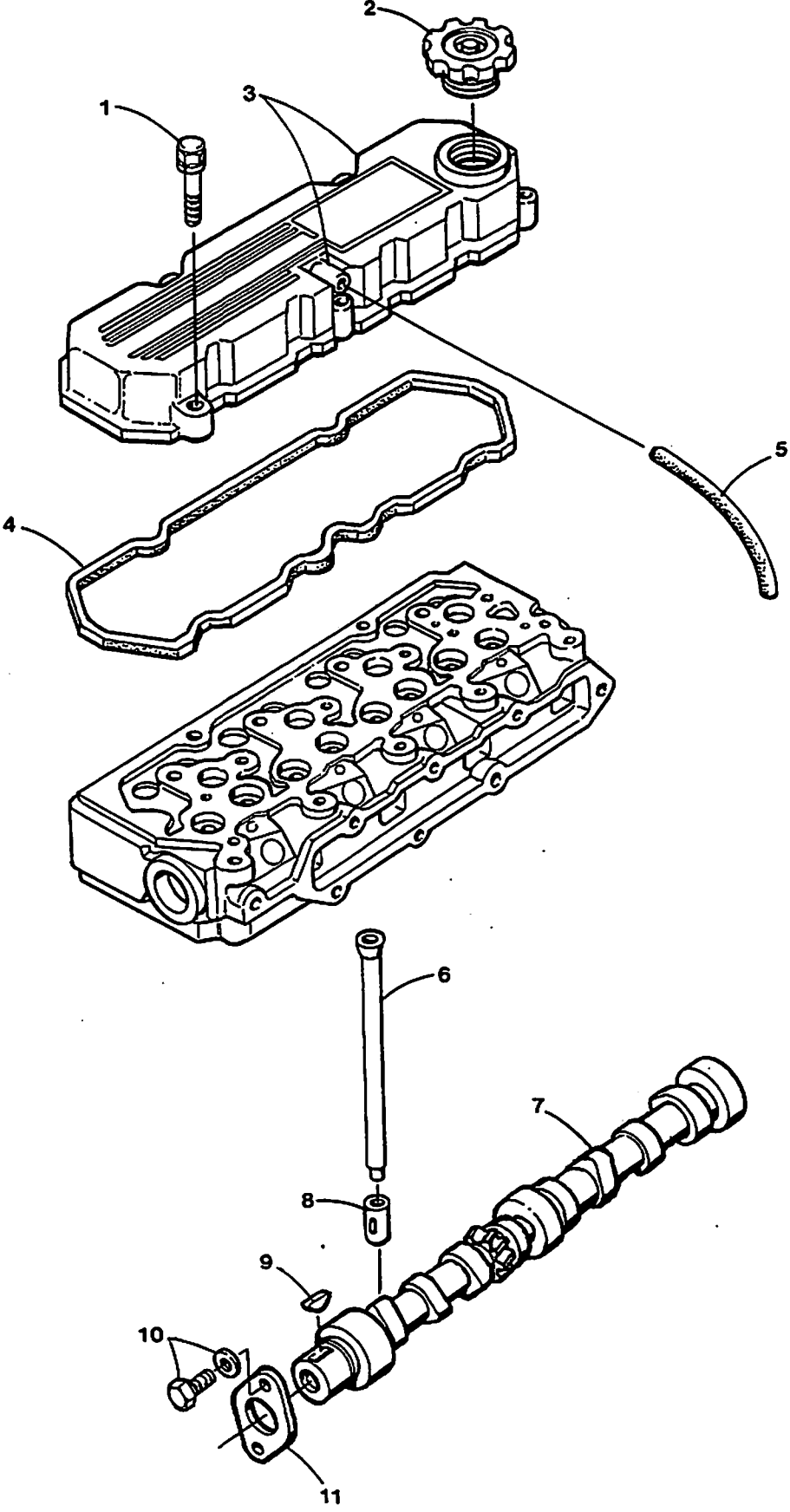
VALVE MECHANISM - 44A/B - 12.5 BTDB- 15.0 BTDC



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

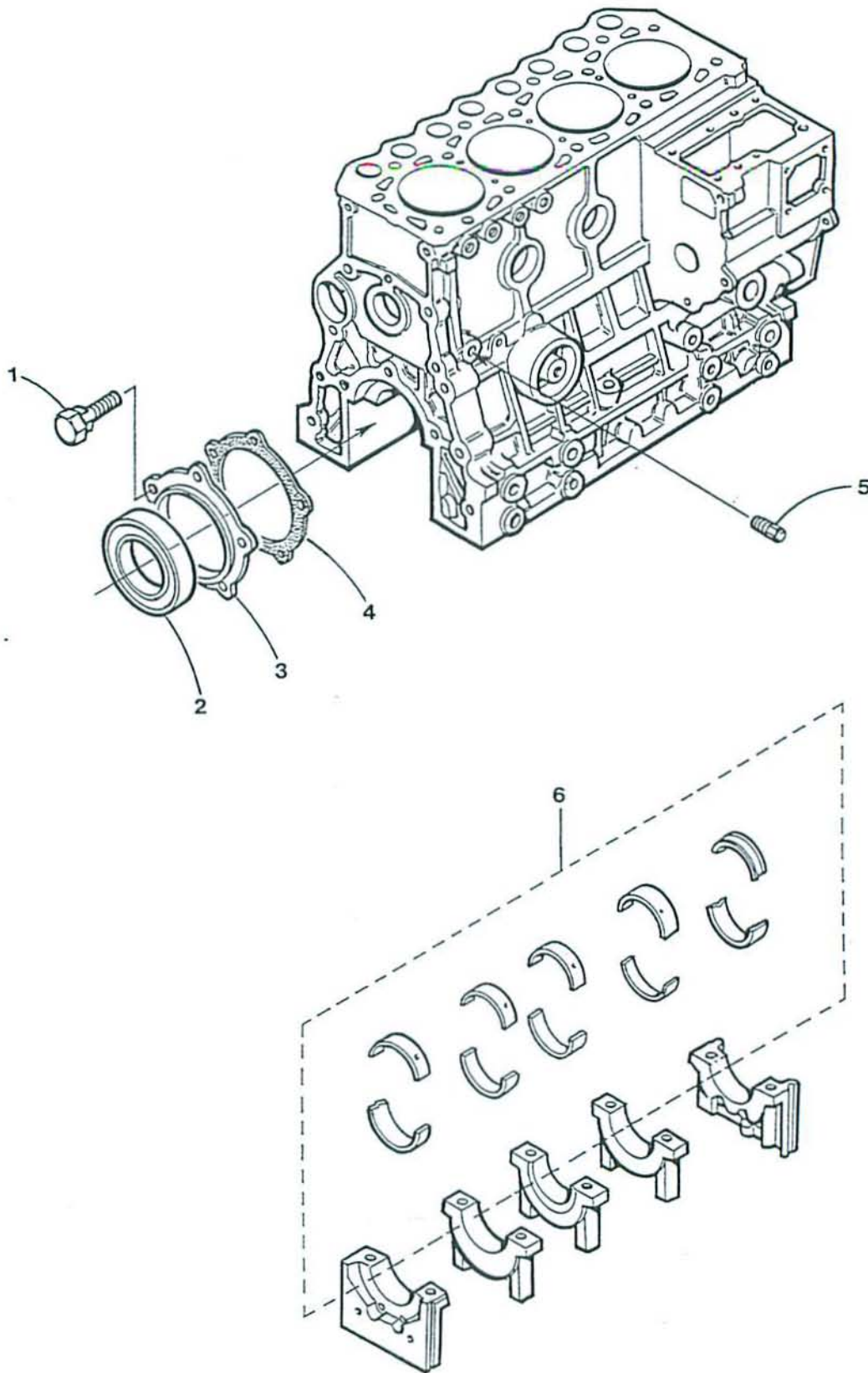
ROCKER COVER & CAMSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC



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

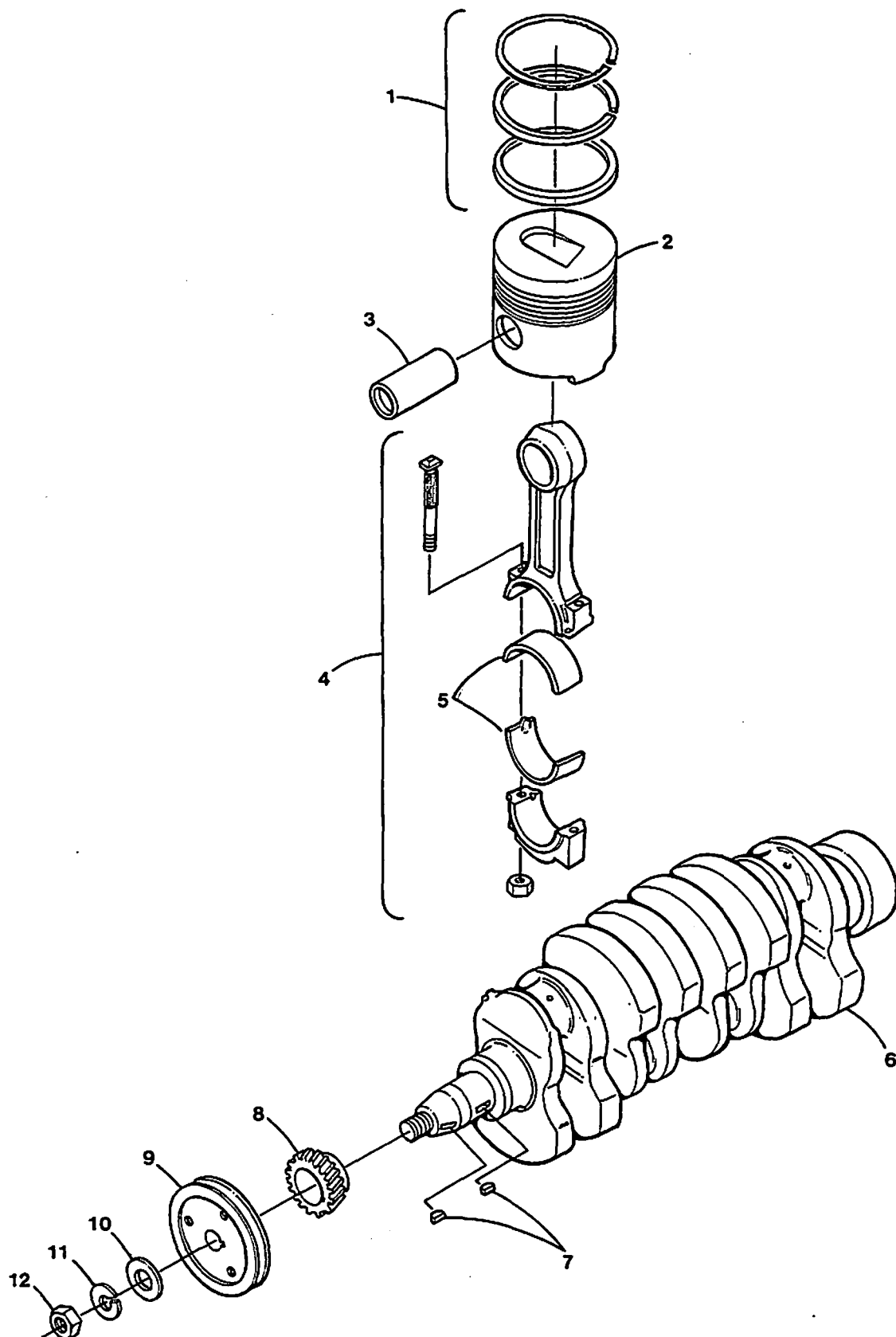
CRANKCASE - 44A/B - 12.5 BTDB- 15.0 BTDC



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

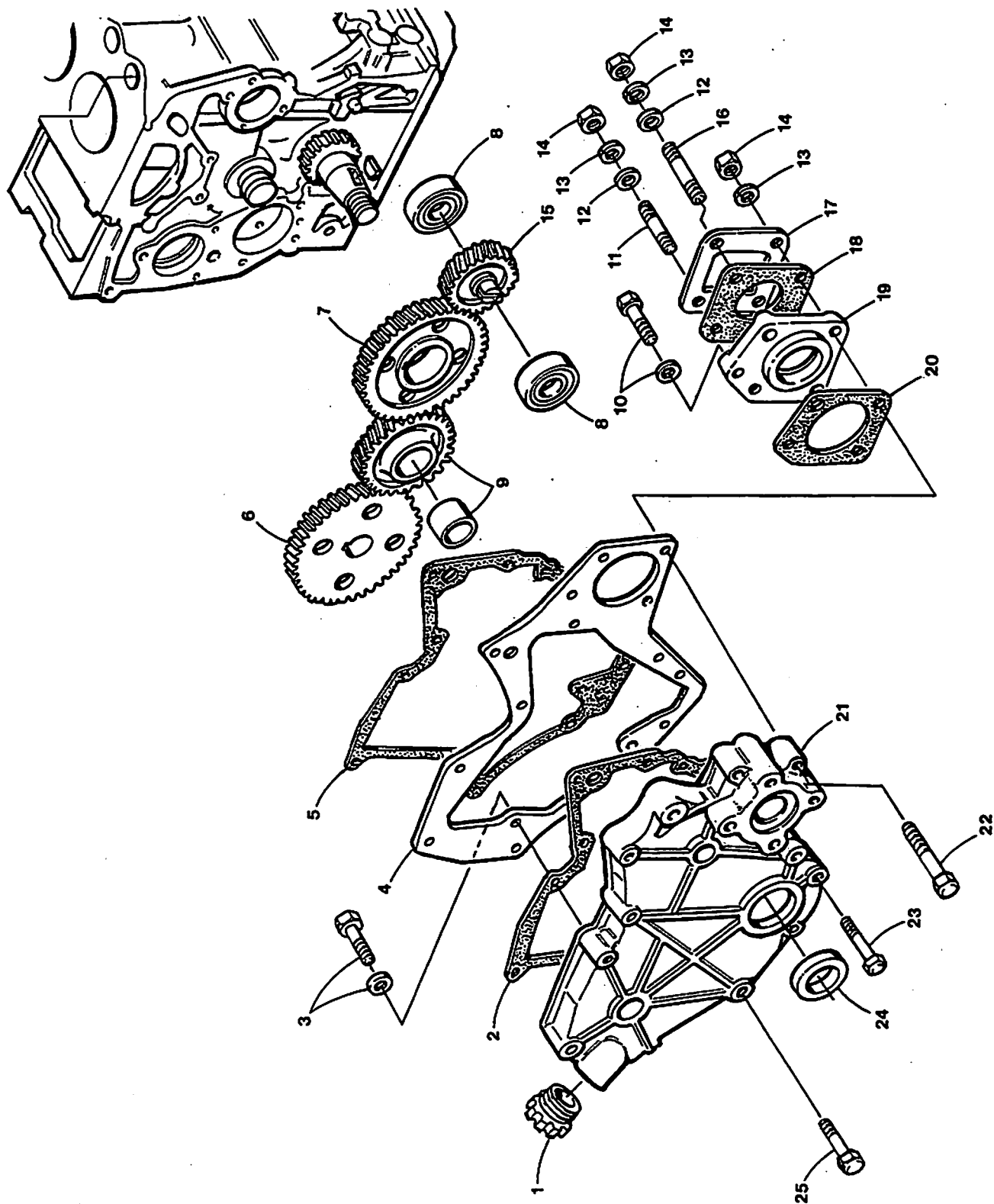
PISTONS & CRANKSHAFT - 44A/B - 12.5 BTDB- 15.0 BTDC



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

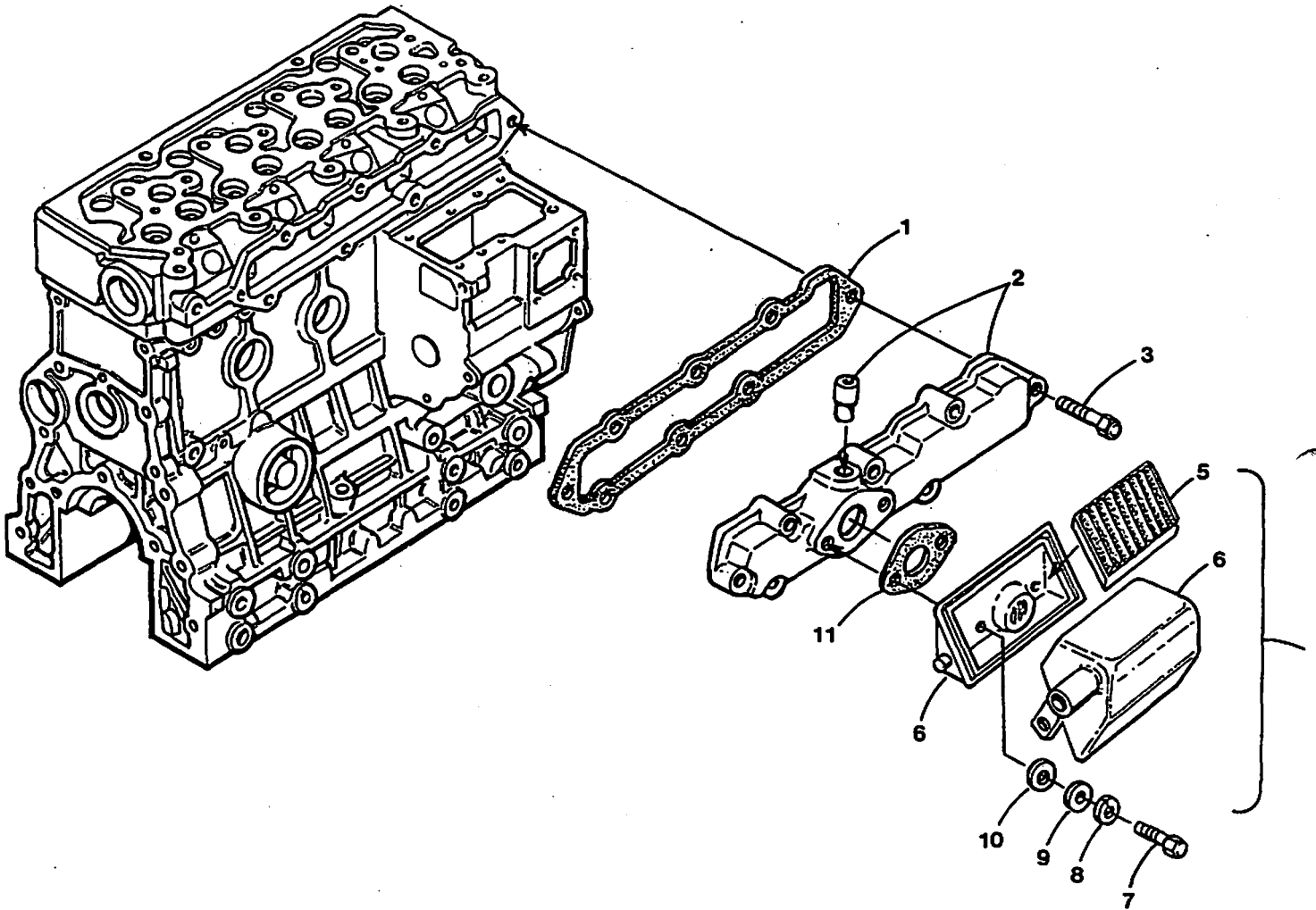
TIMING GEAR CASE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



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

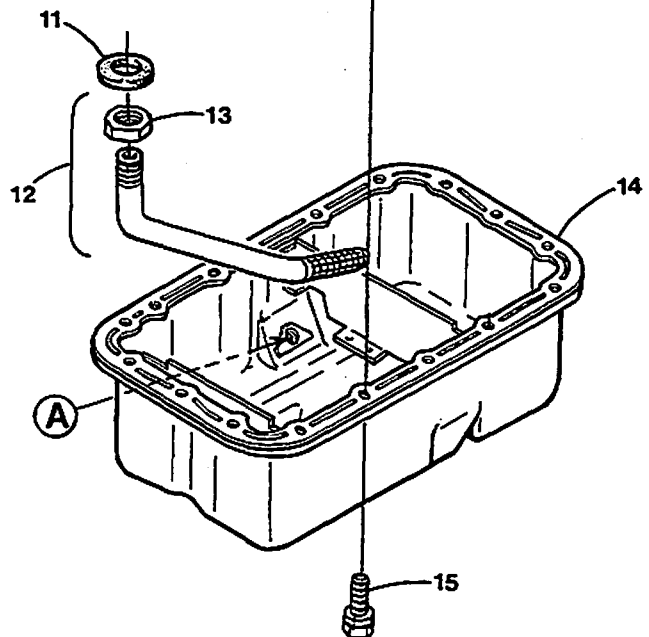
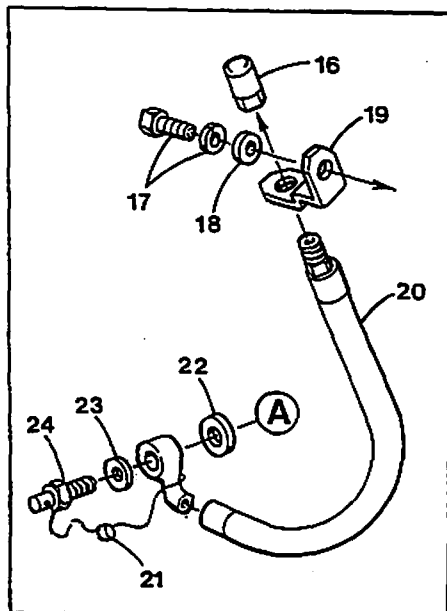
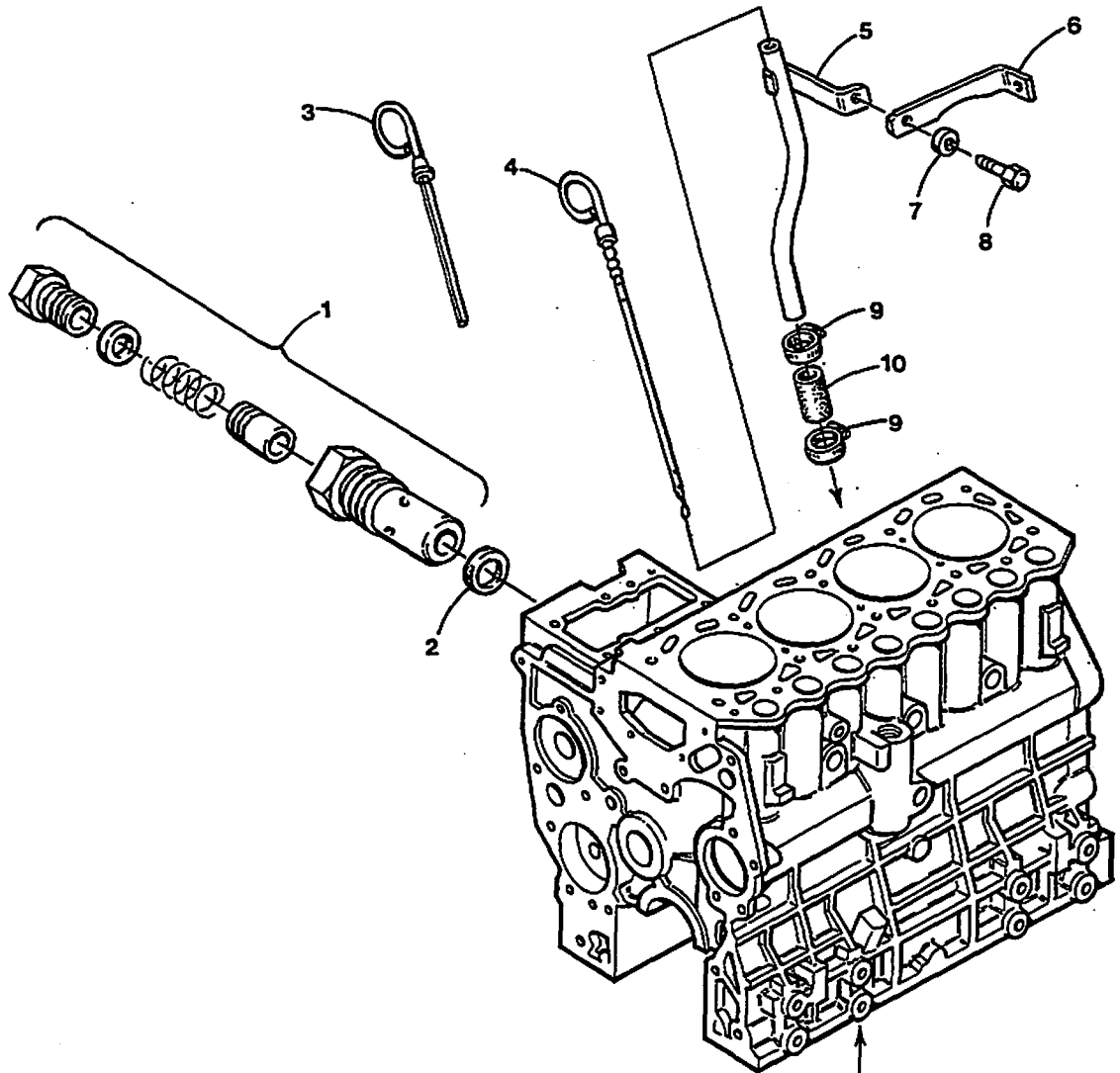
INLET MANIFOLD & AIR INTAKE SILENCER - 44A/B - 12.5 - 15.0



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

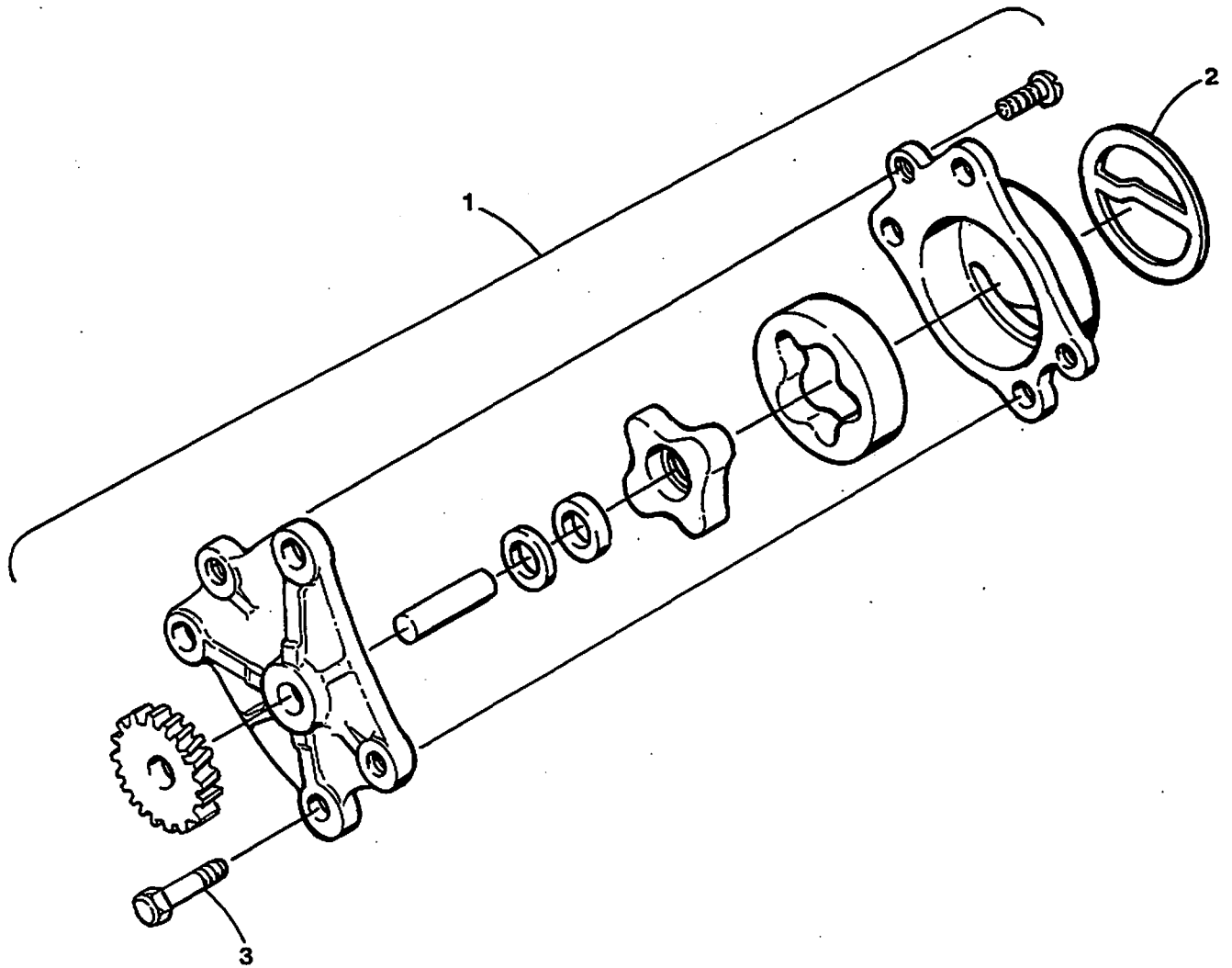
OIL SYSTEM - 44A/B - 12.5 BTDB- 15.0 BTDC



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

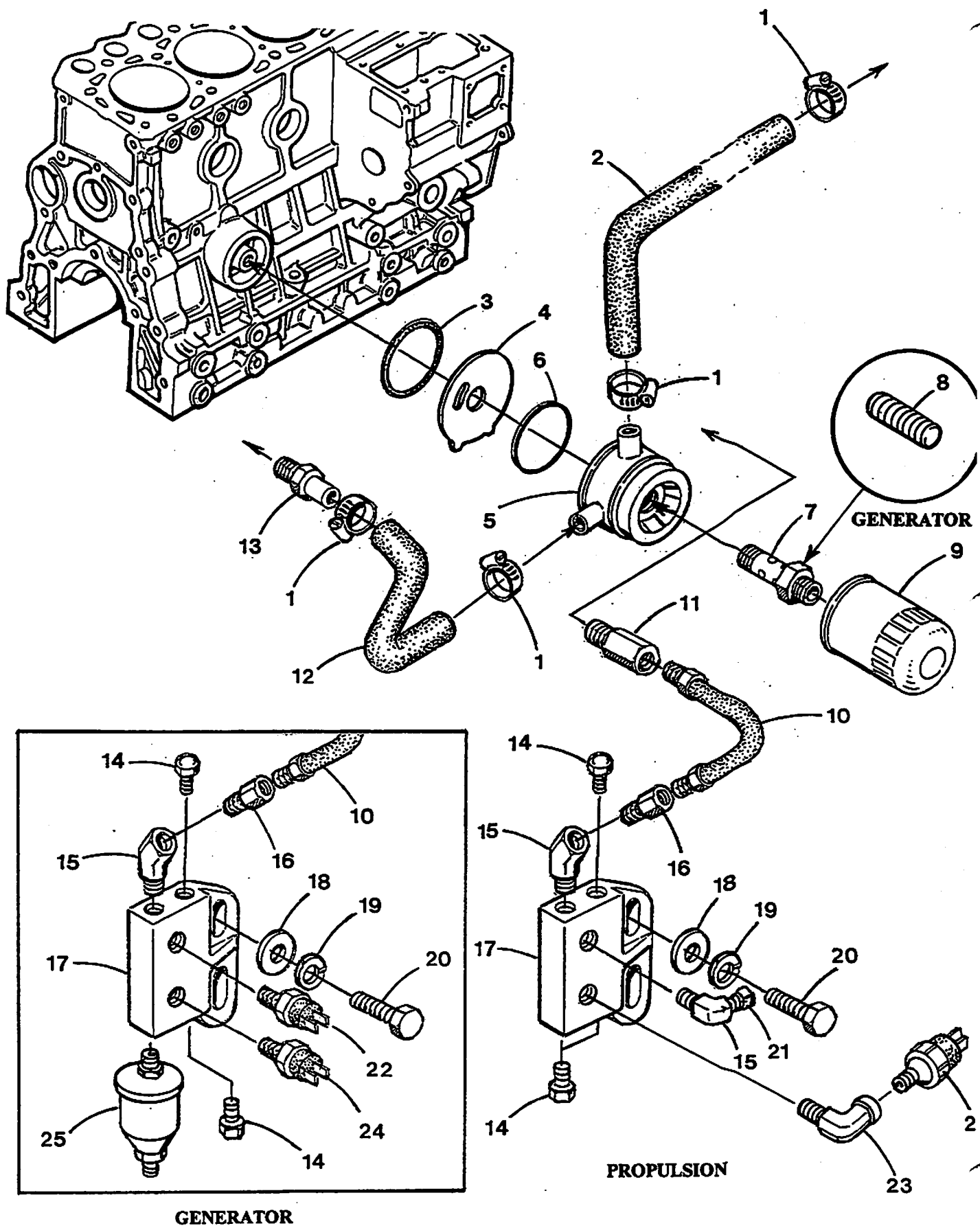
OIL PUMP - 44A/B - 12.5 BTDB- 15.0 BTDC



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

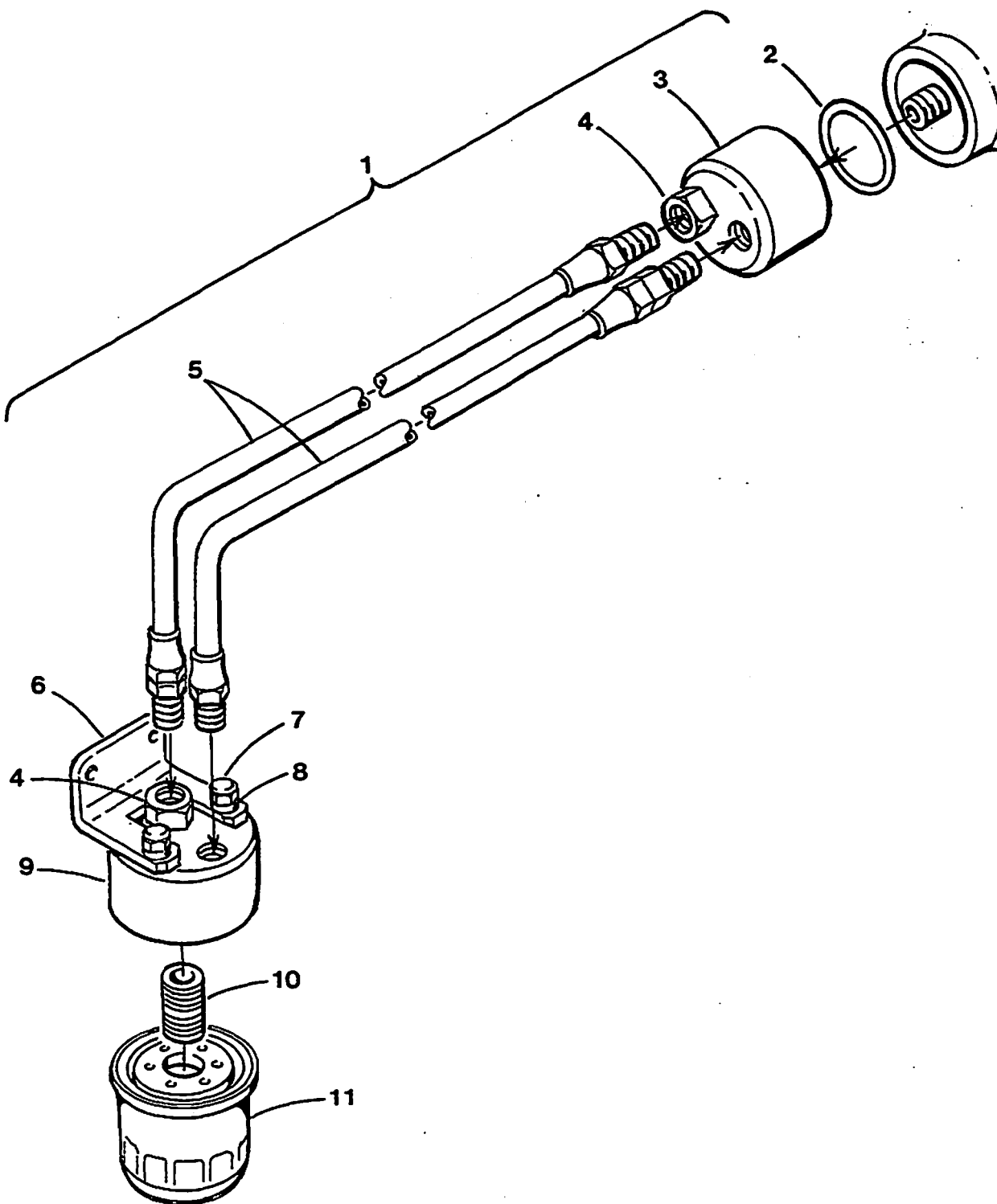
OIL COOLER ASSEMBLY & FILTER - 44A/B - 12.5 BTDB - 15.0 BTDC



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

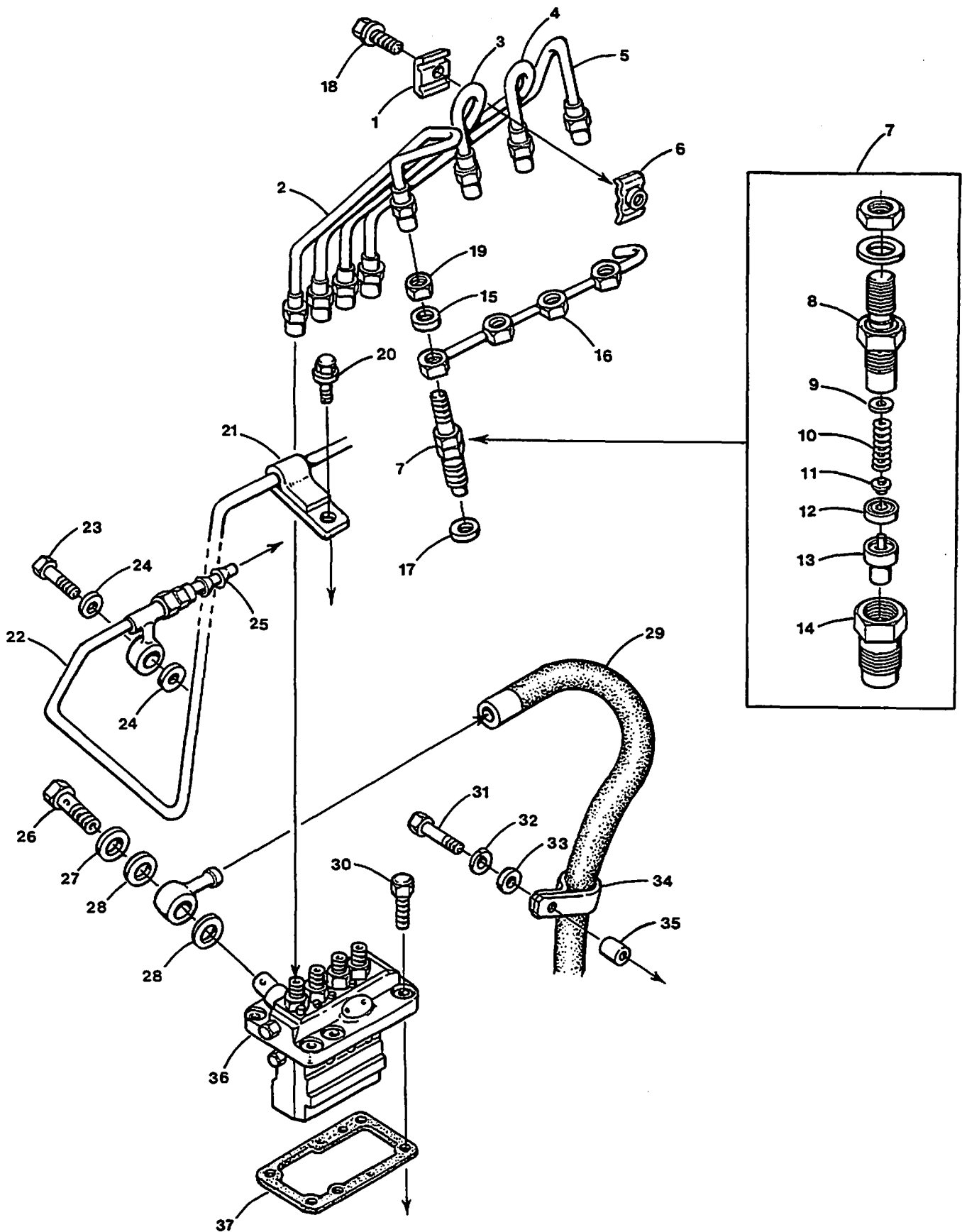
REMOTE LUBE OIL FILTER ASSY - 44A/B - 12.5 BTDB- 15.0 BTDC



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

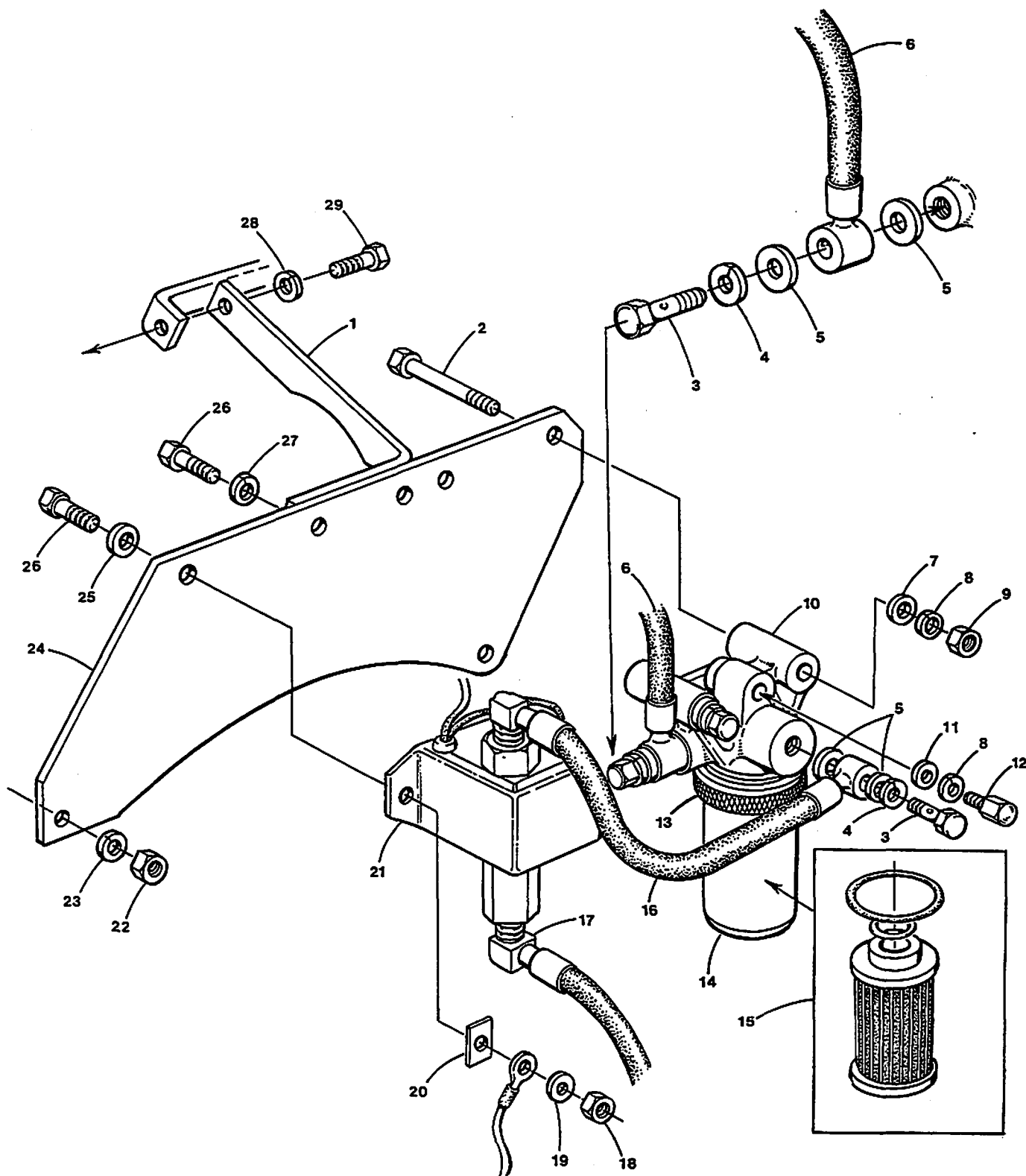
FUEL SYSTEM & NOZZLE ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



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

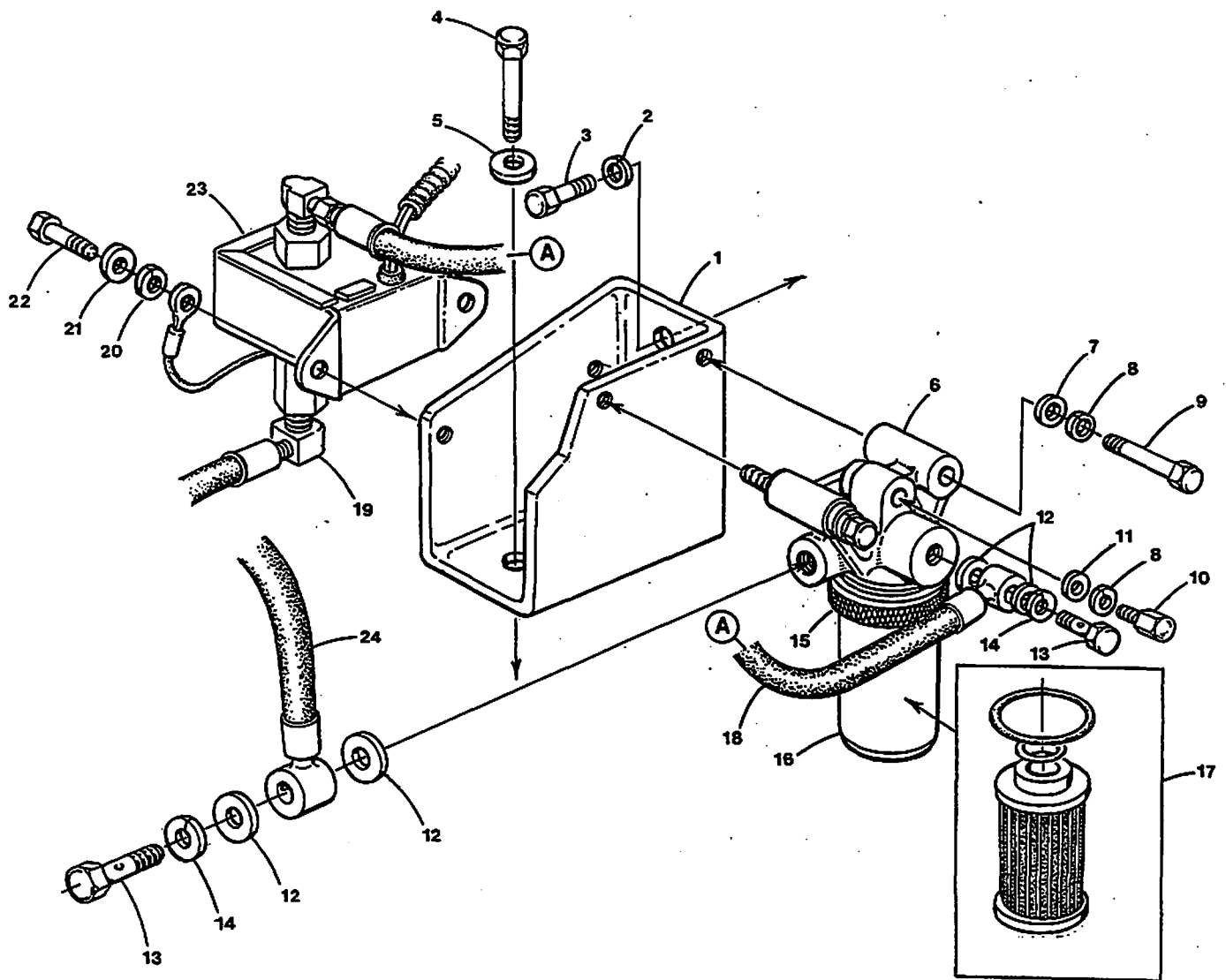
FUEL LIFT PUMP & FUEL FILTER - 44A/B



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

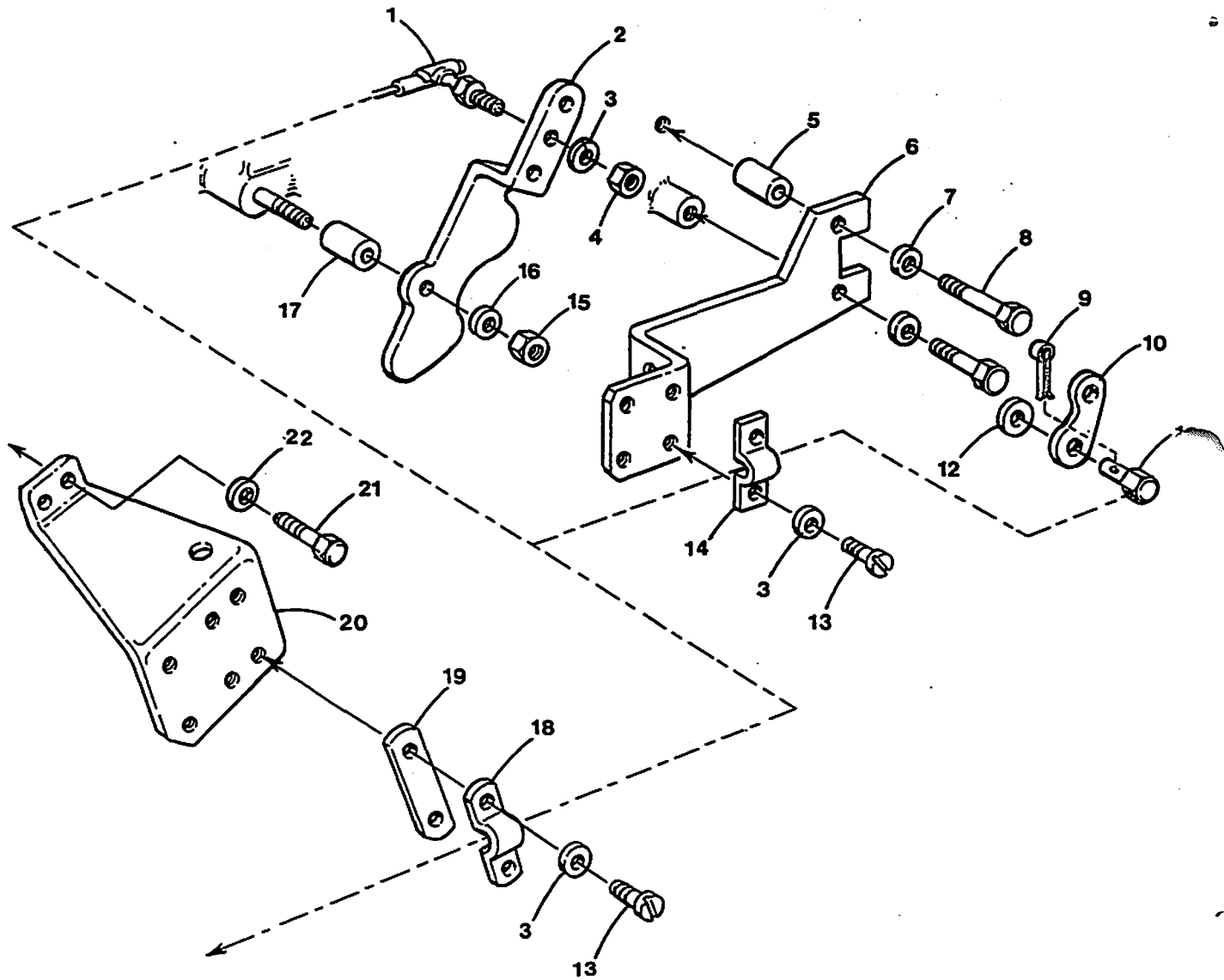
FUEL LIFT PUMP & FUEL FILTER - 12.5 BTDB- 15.0 BTDC



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

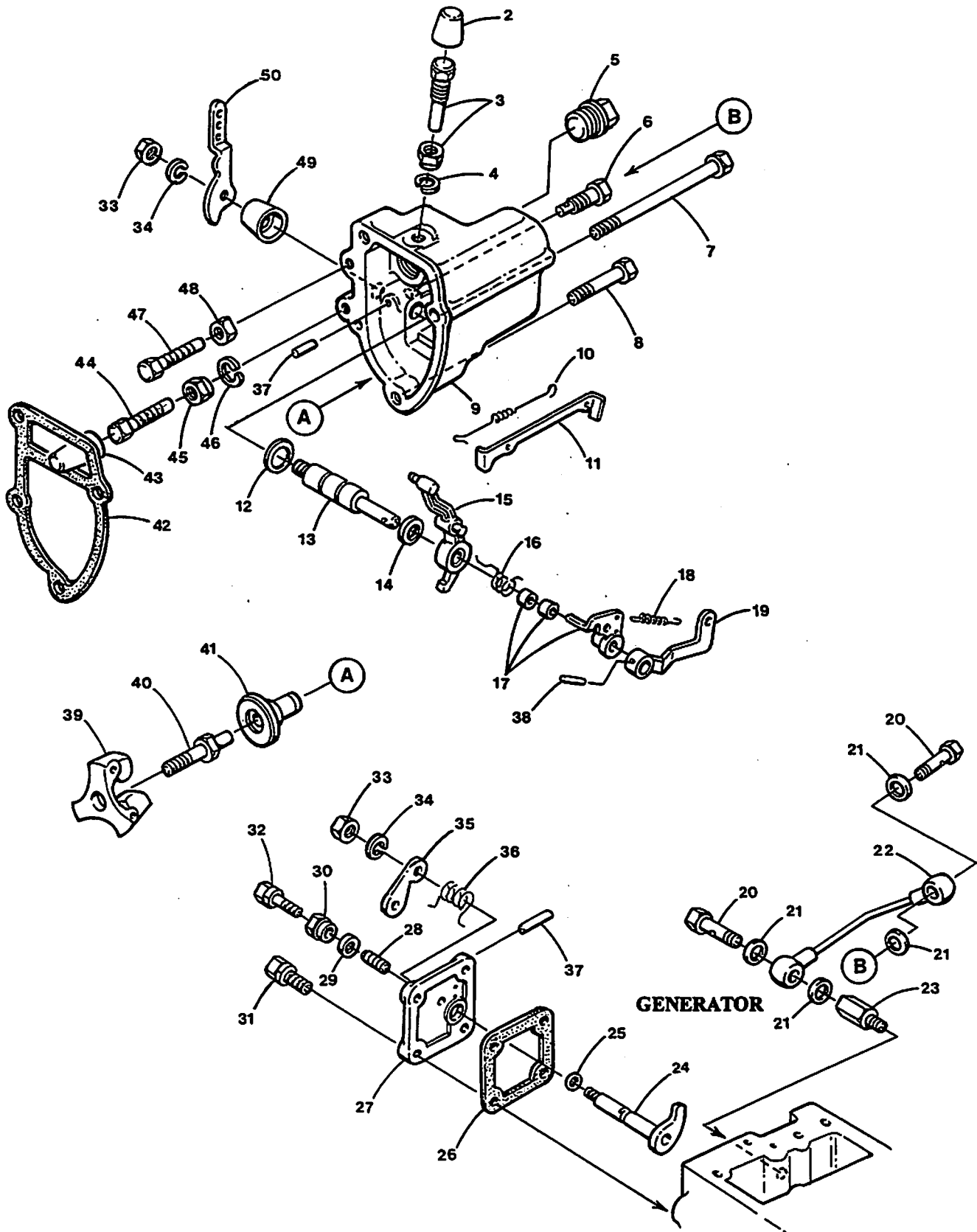
THROTTLE ASSEMBLY- 44A/B



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

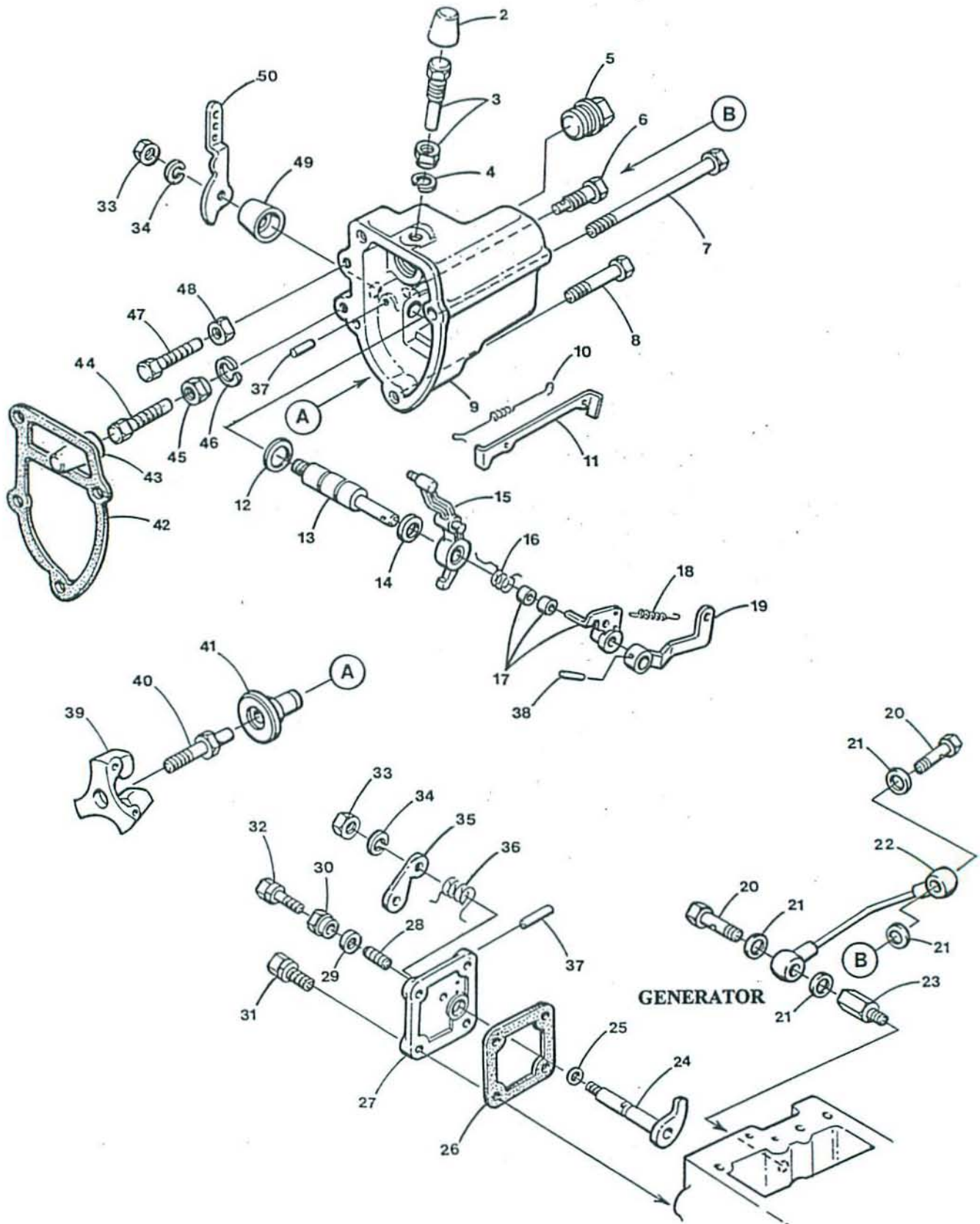
GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



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

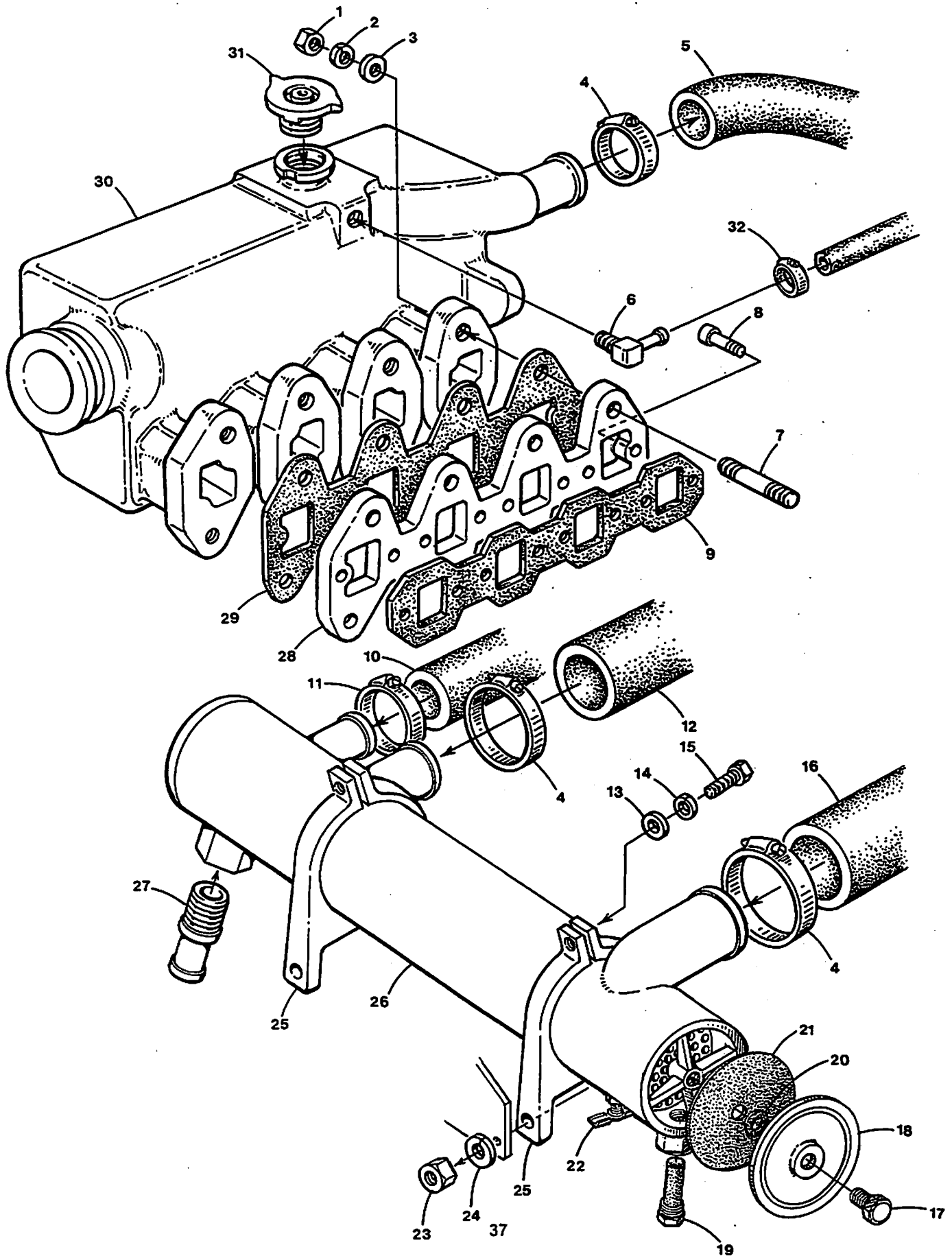
GOVERNOR ASSEMBLY - 44A/B - 12.5 BTDB- 15.0 BTDC



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

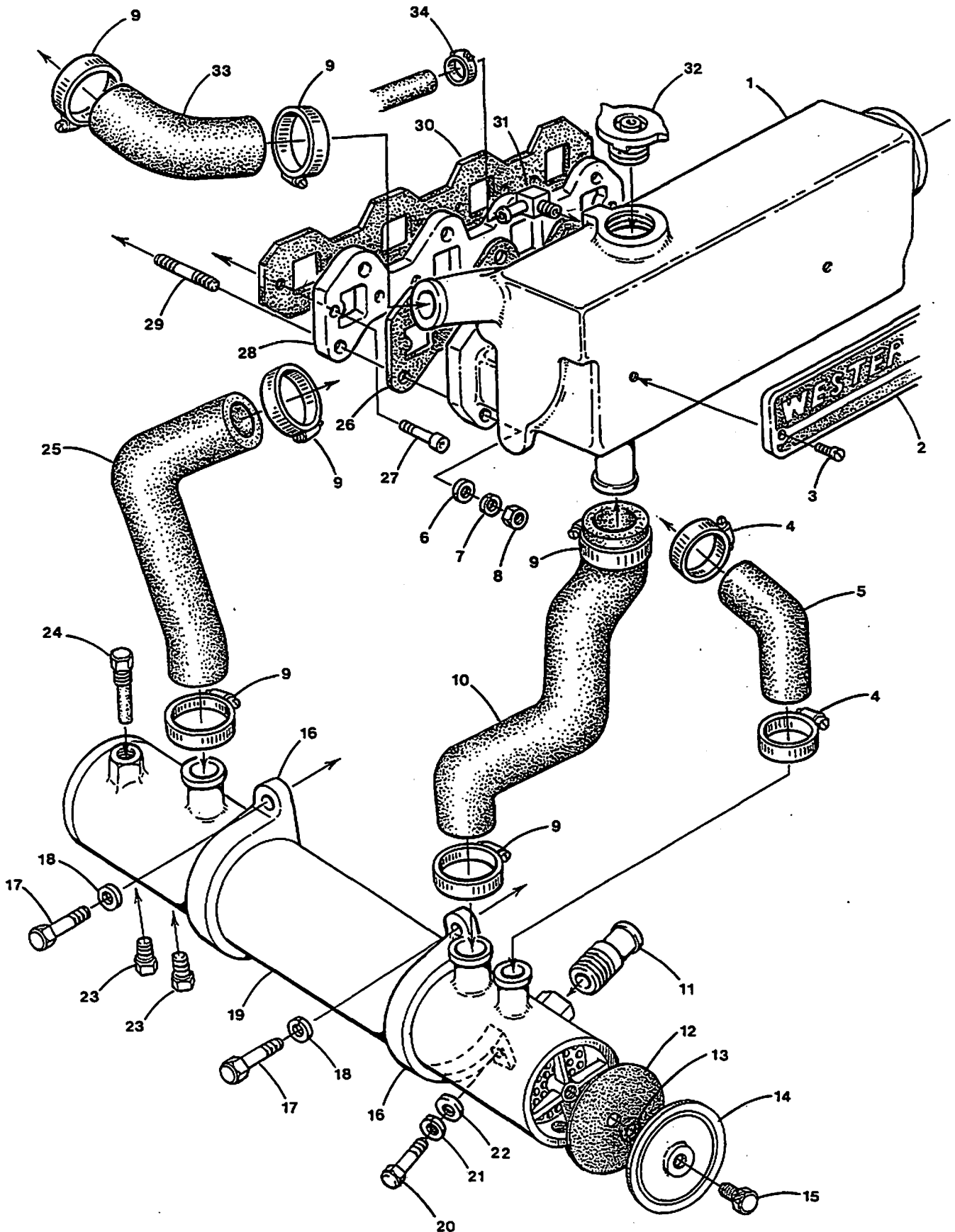
EXHAUST MANIFOLD & HEAT EXCHANGER - 44A/B



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

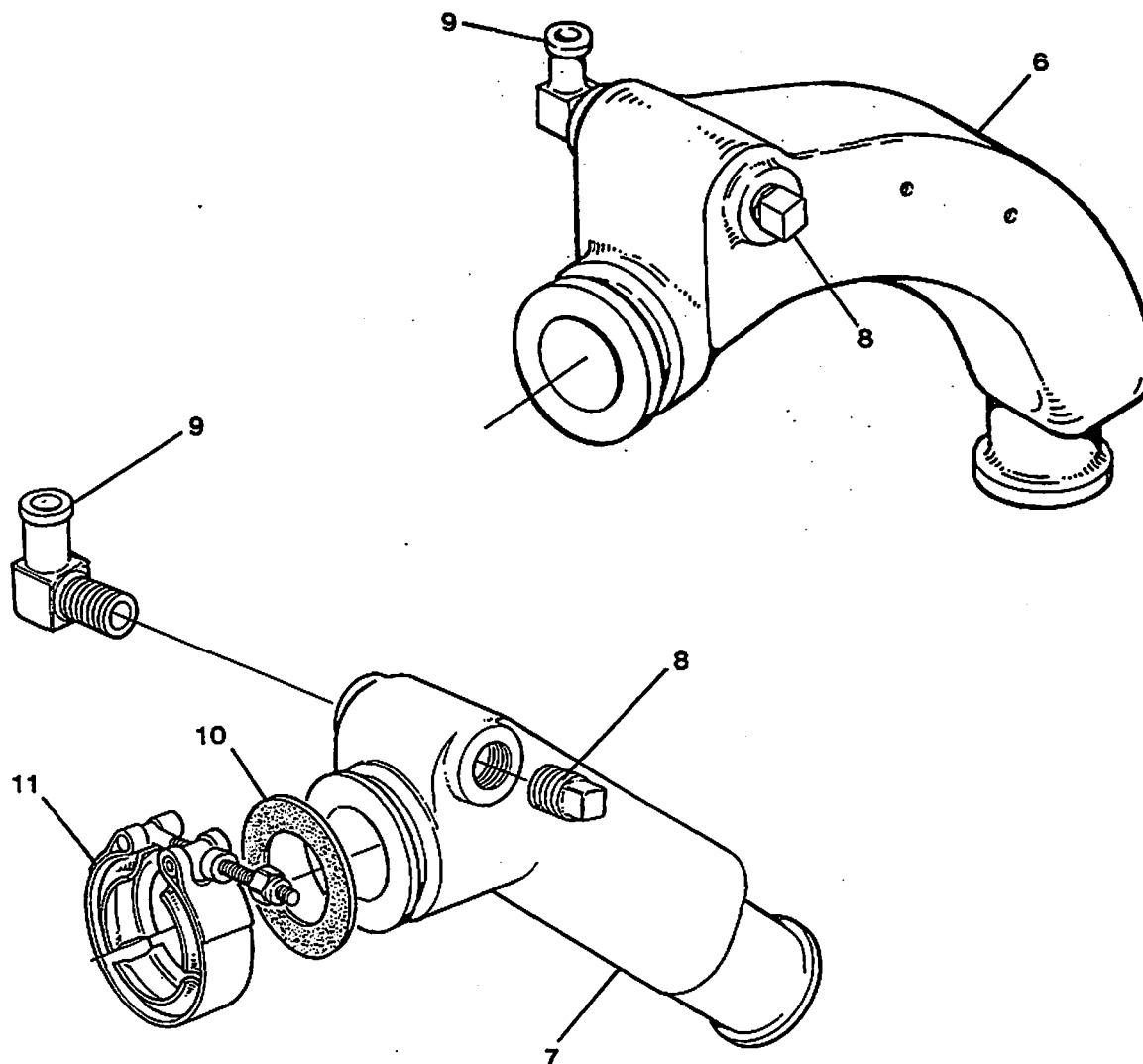
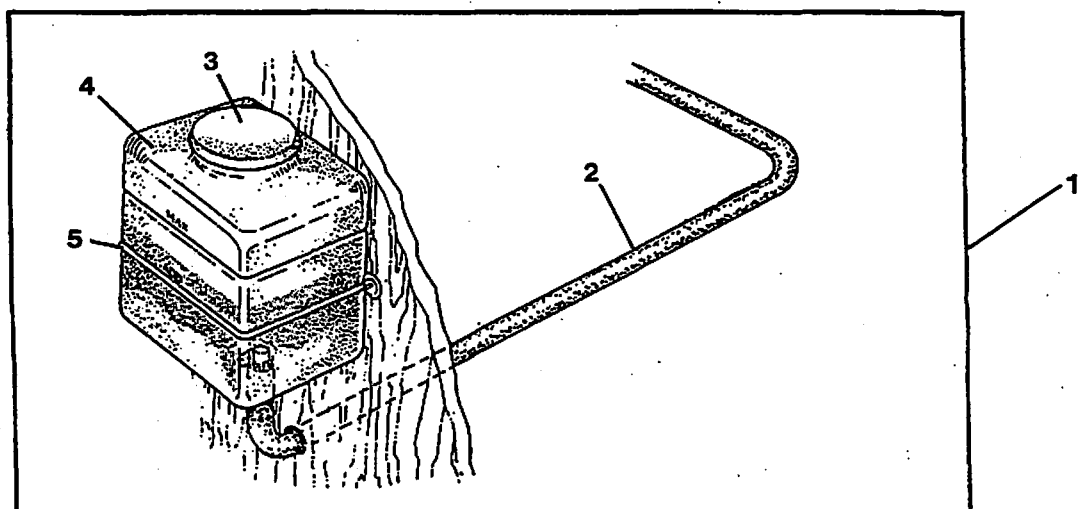
EXHAUST MANIFOLD & HEAT EXCHANGER - 12.5 BTDB- 15.0 BTDC



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

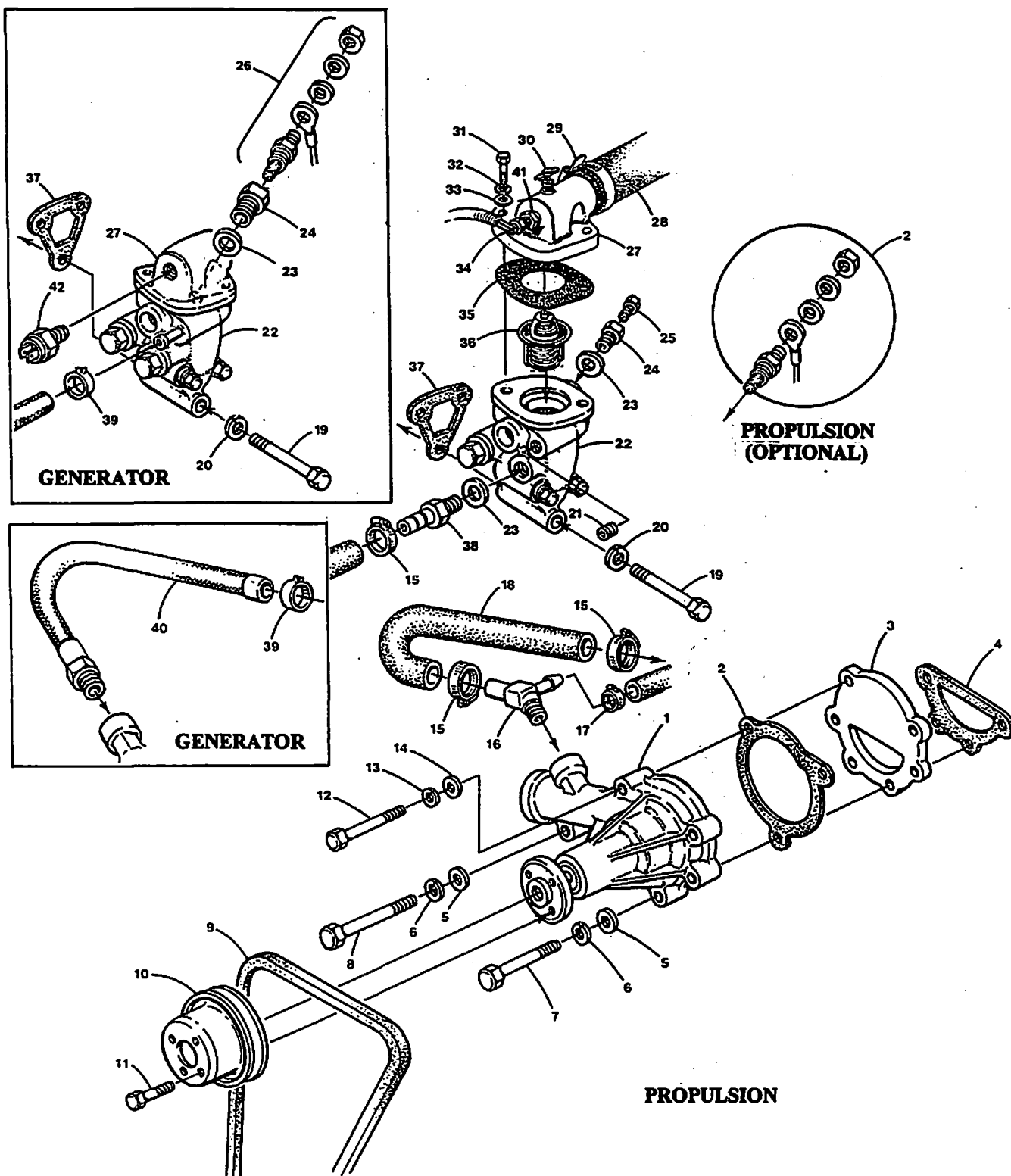
REMOTE COOLANT TANK & EXHAUST ELBOWS -44A/B -12.5 - 15.0



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

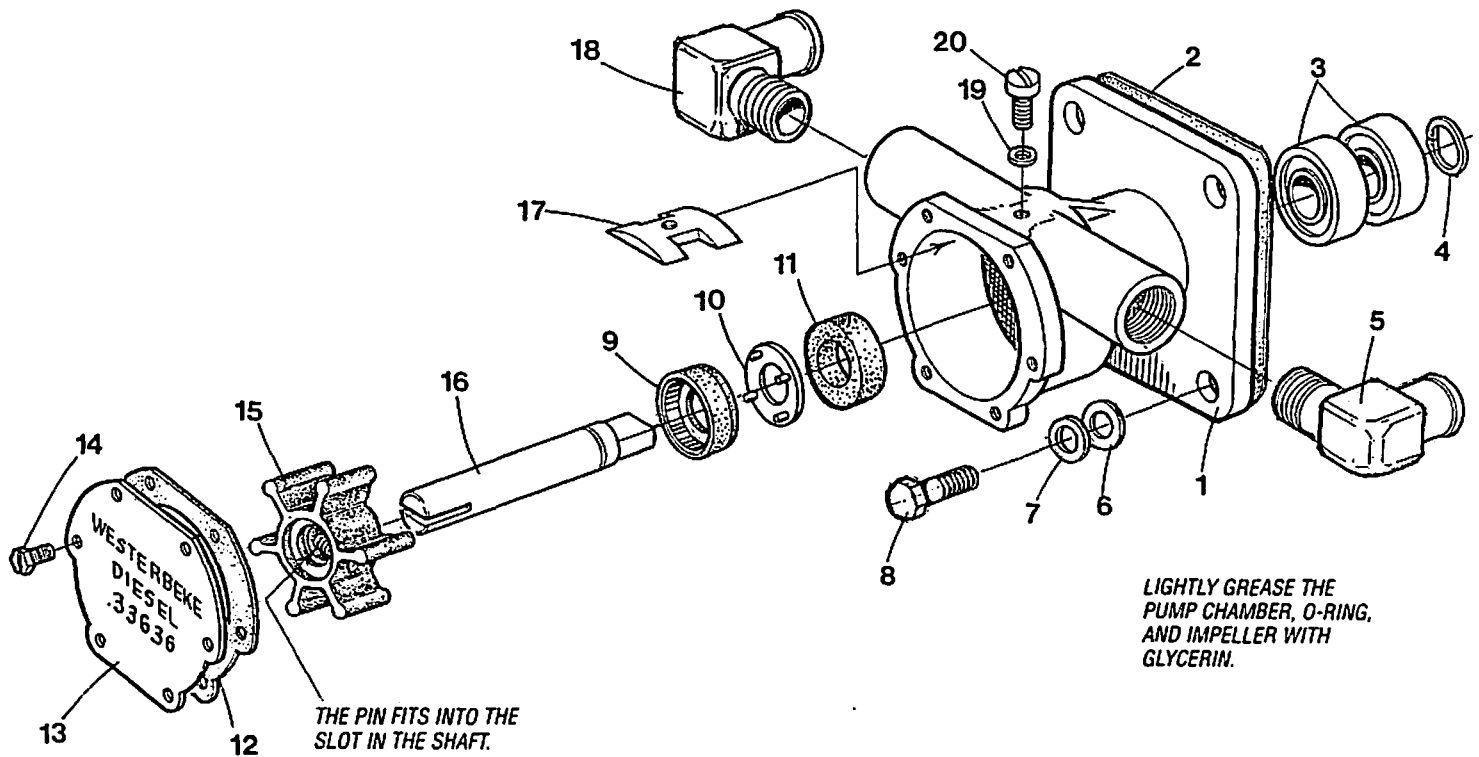
COOLING SYSTEM & FRESH WATER PUMP-44A/B-12.5 BTDB-15.0 BTDC



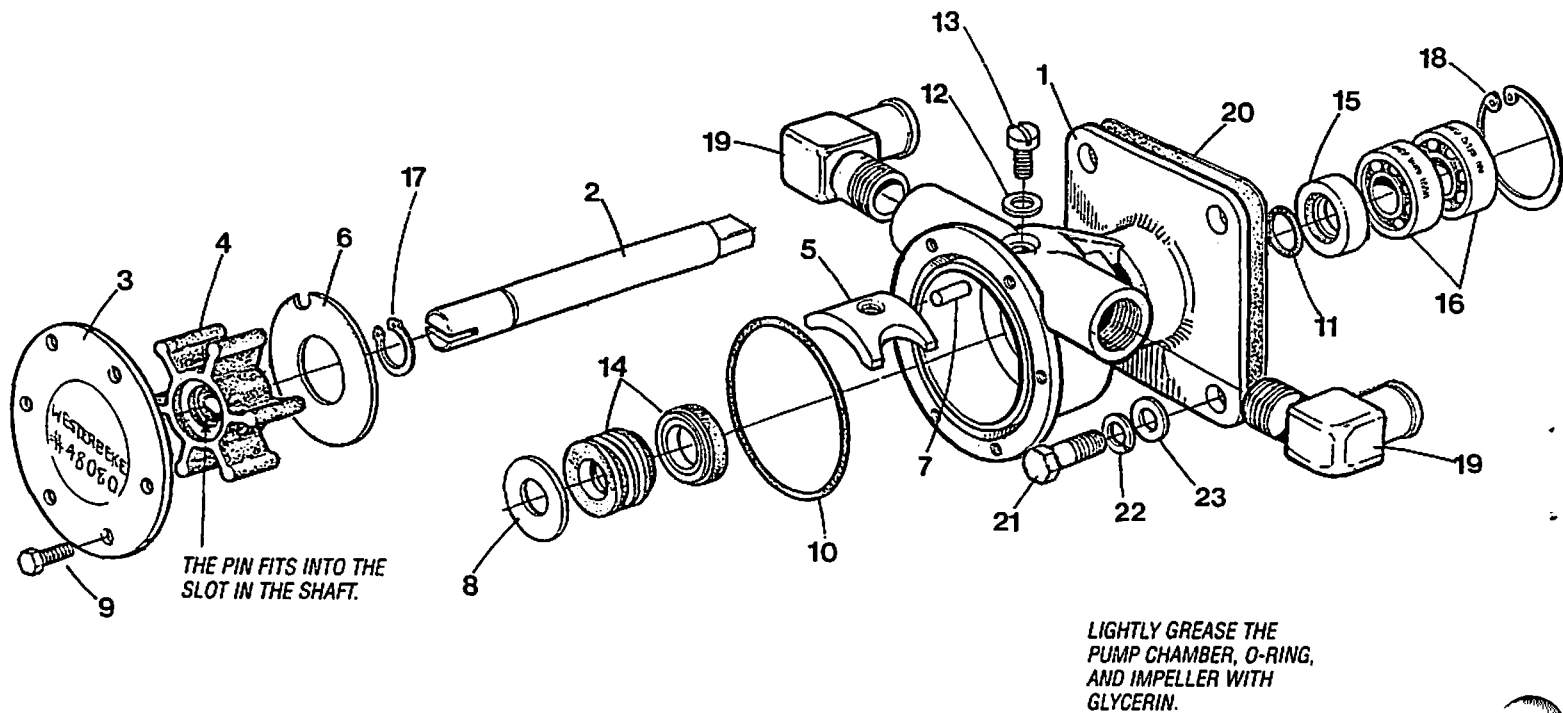
COOLING SYSTEM & FRESH WATER PUMP-44A/B-12.5 BTDB-15.0 BTDC

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 (OPT'L 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

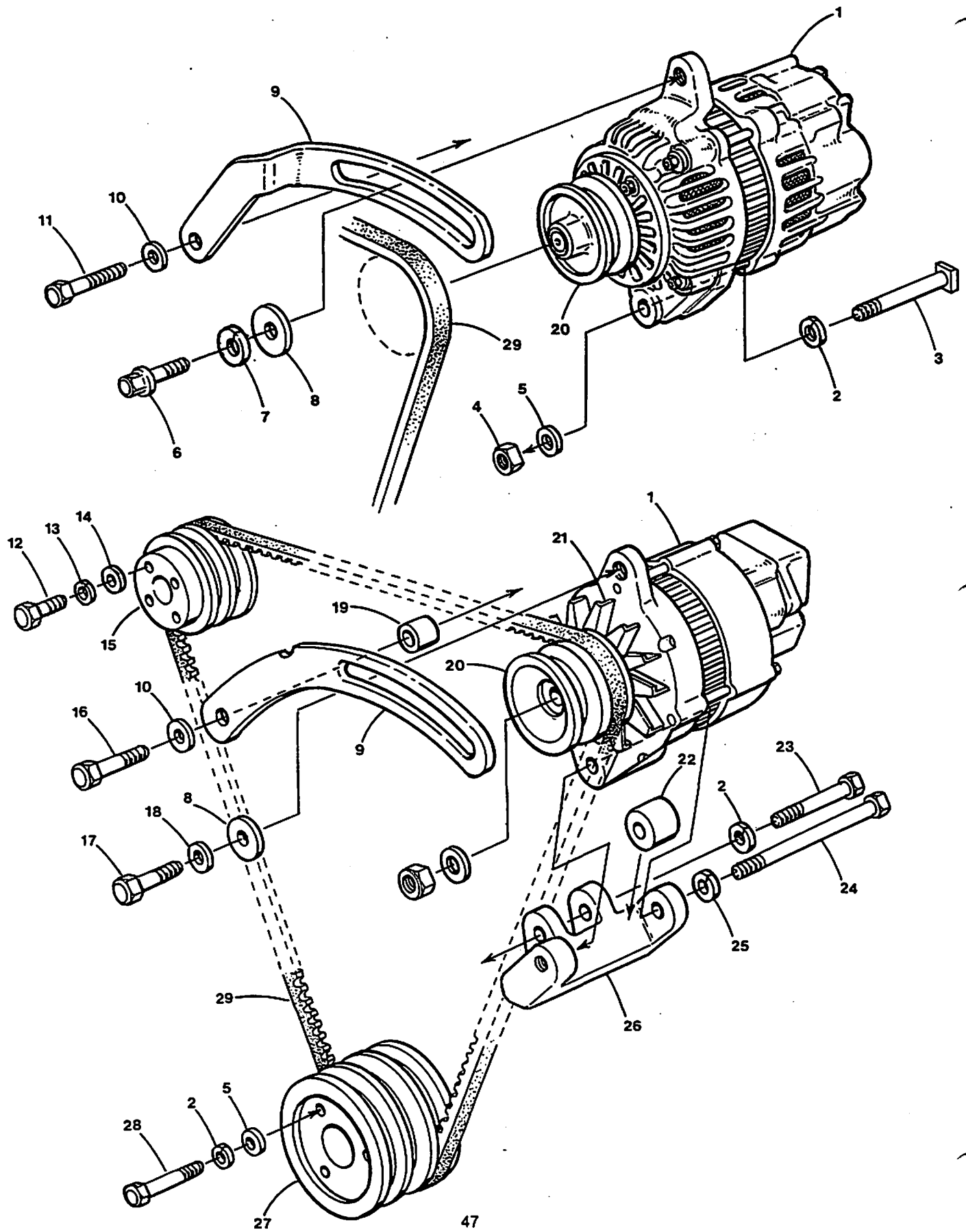
RAW WATER PUMP

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

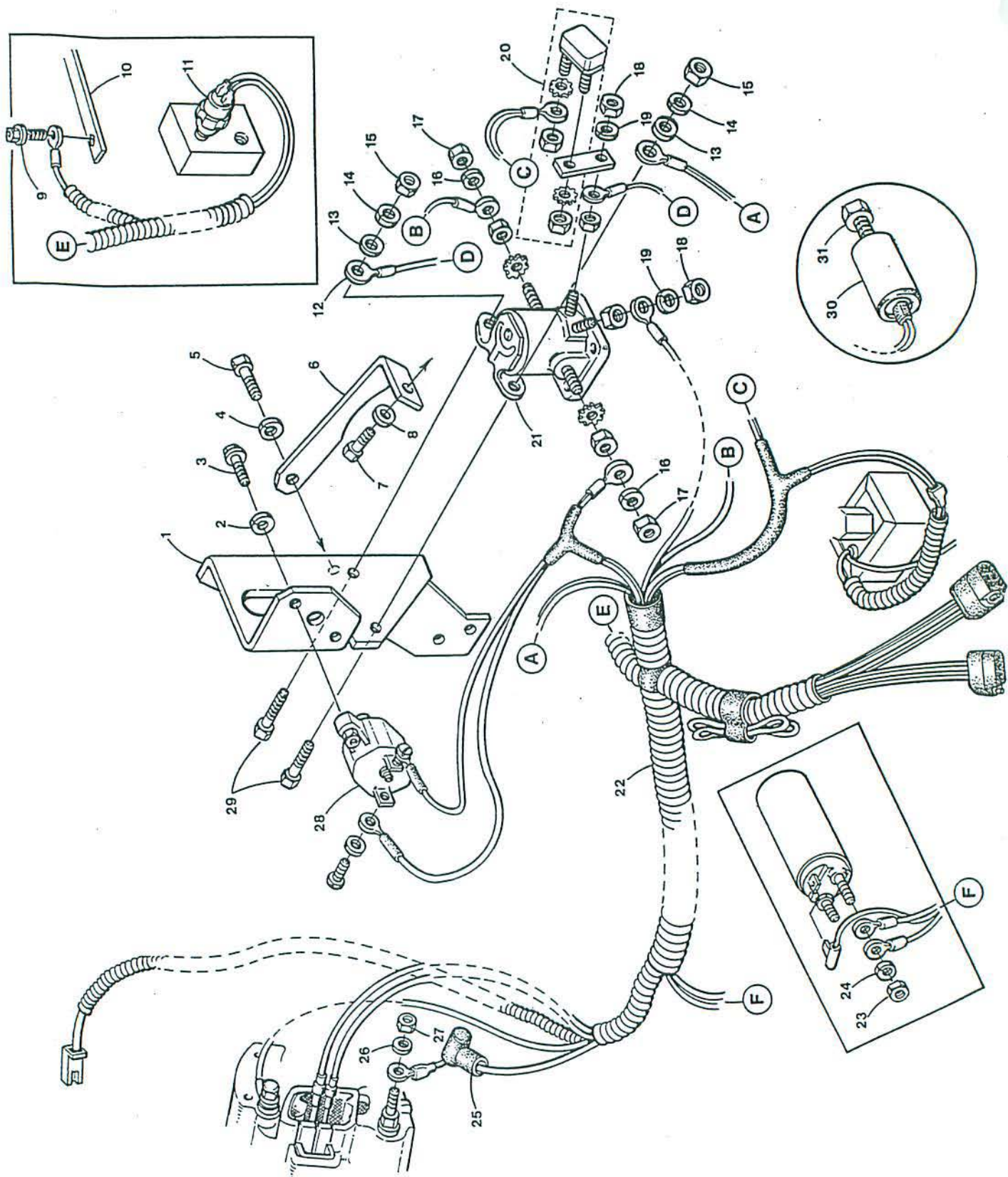
ALTERNATOR ASSEMBLY-50/72/90 AMP - 44A/B-12.5 BTDB-15.0 BTDC



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

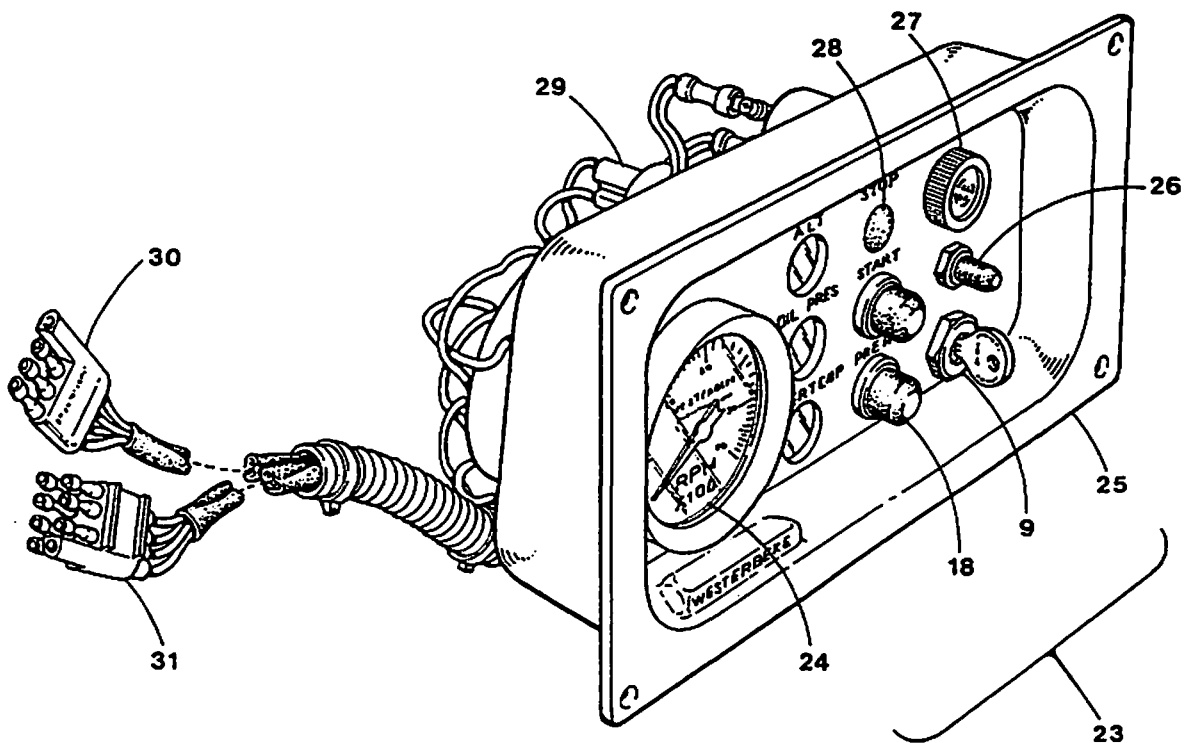
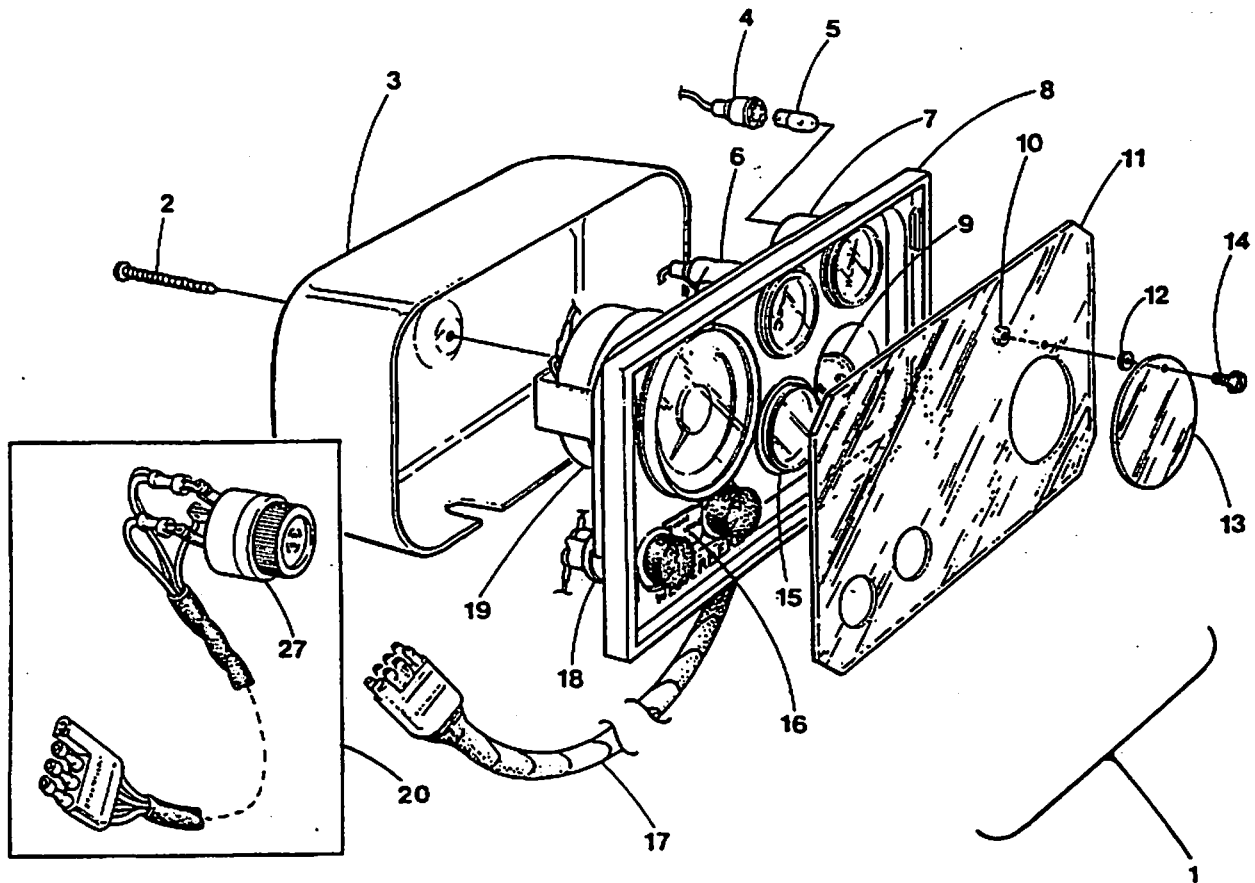
ELECTRICAL SYSTEM - 44A/B



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

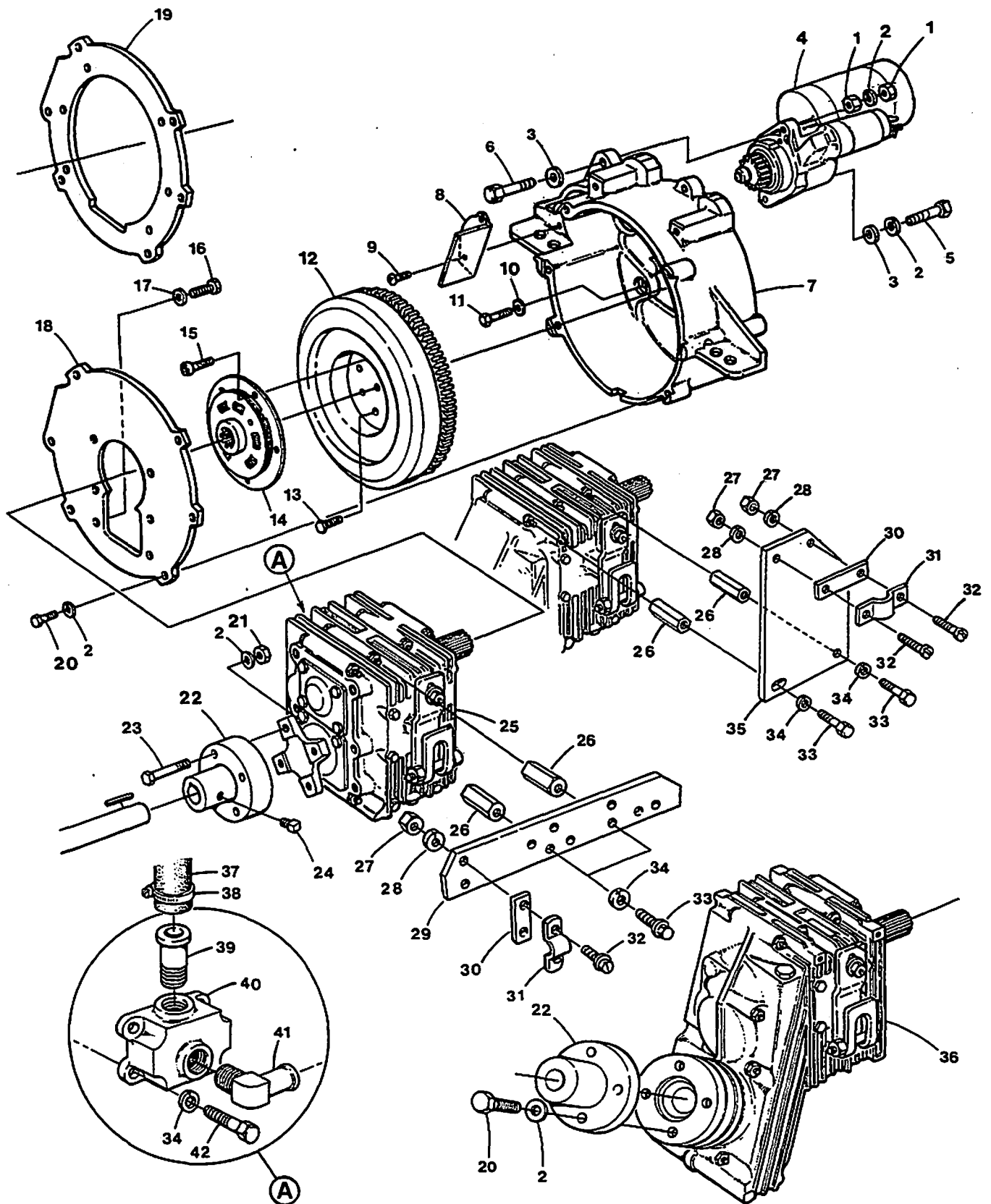
CONTROL PANELS - 44A/B



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

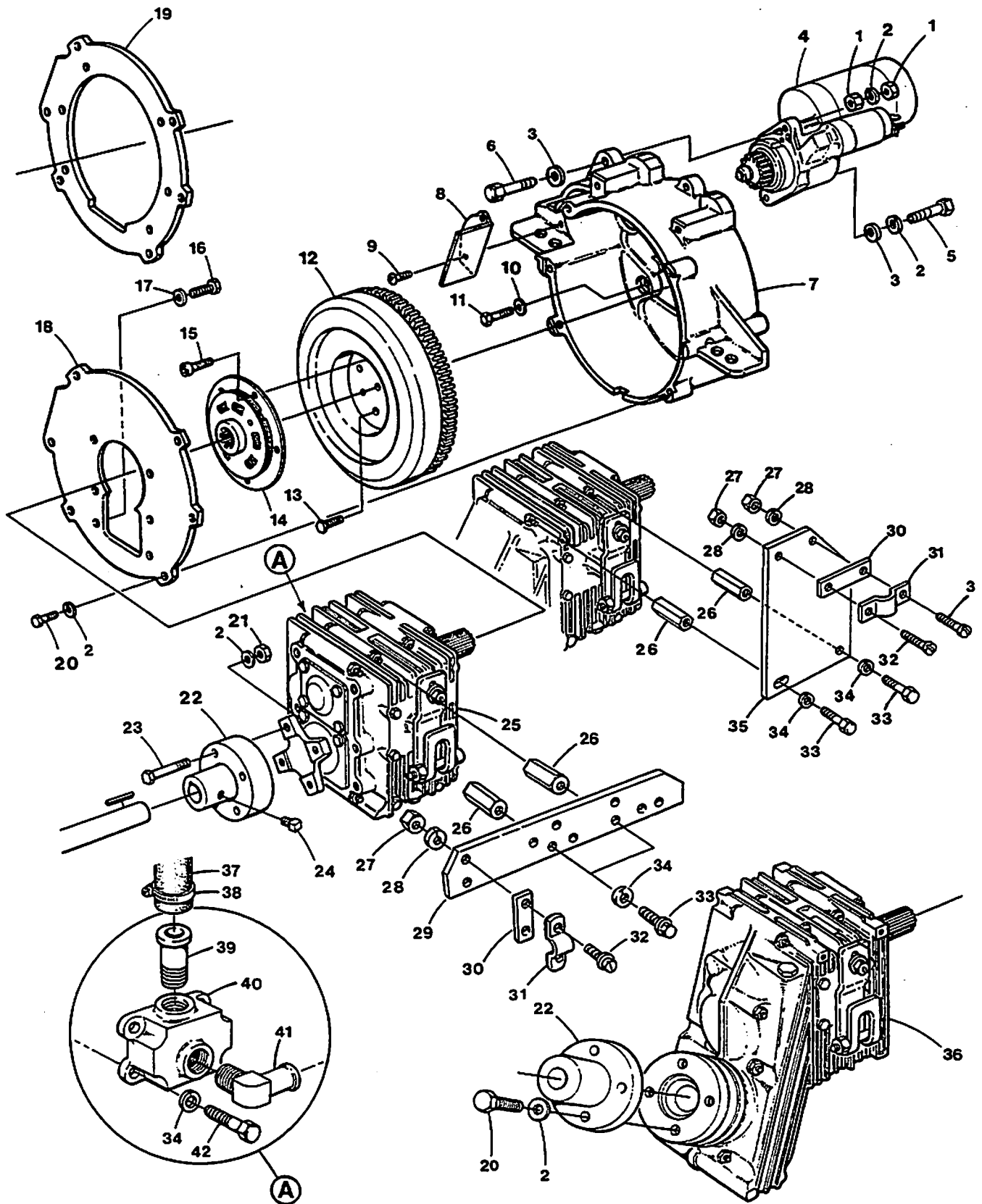
HBW (HURTH) TRANSMISSION - 44A/B



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

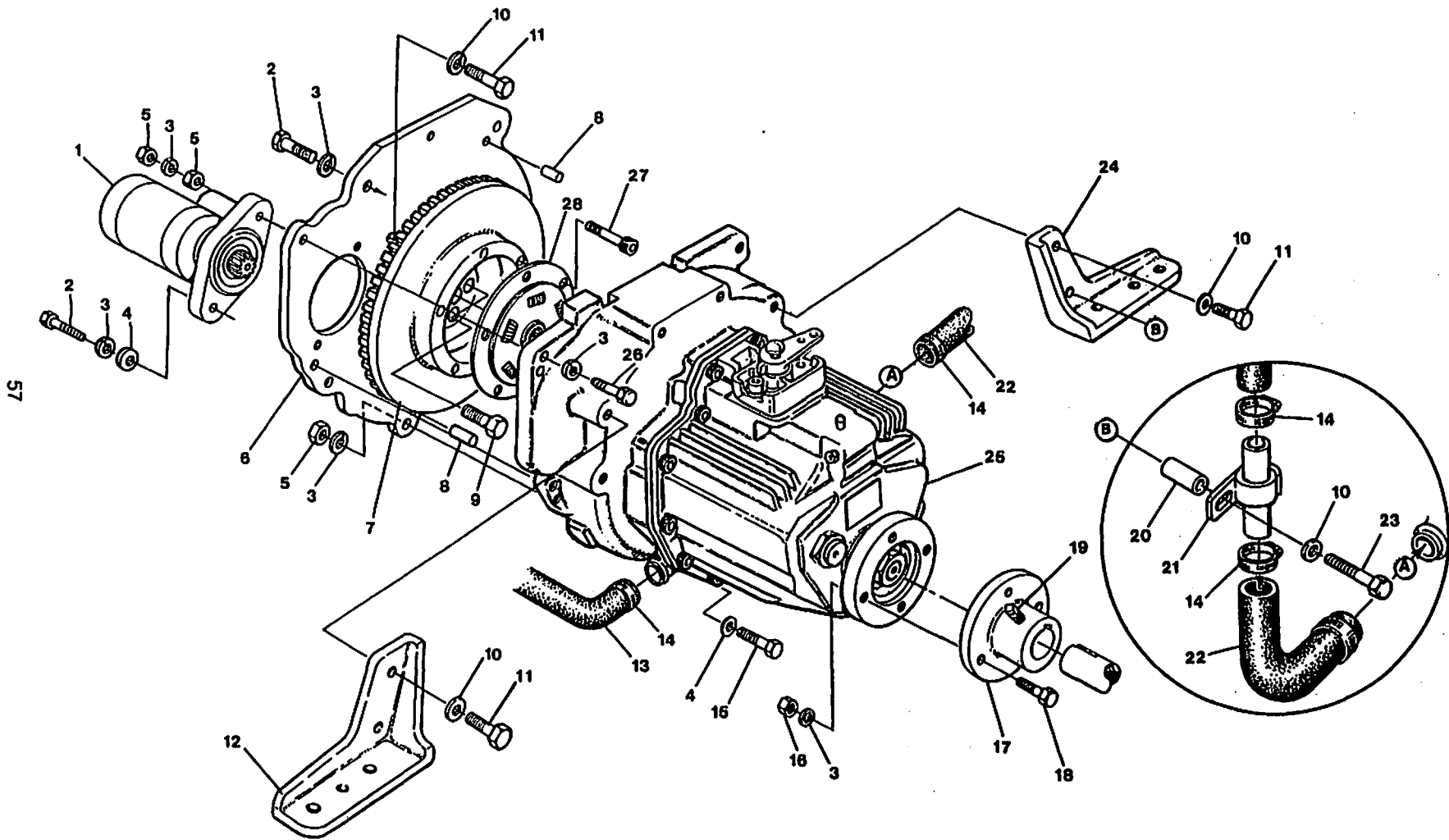
HBW (HURTH) TRANSMISSION - 44A/B



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

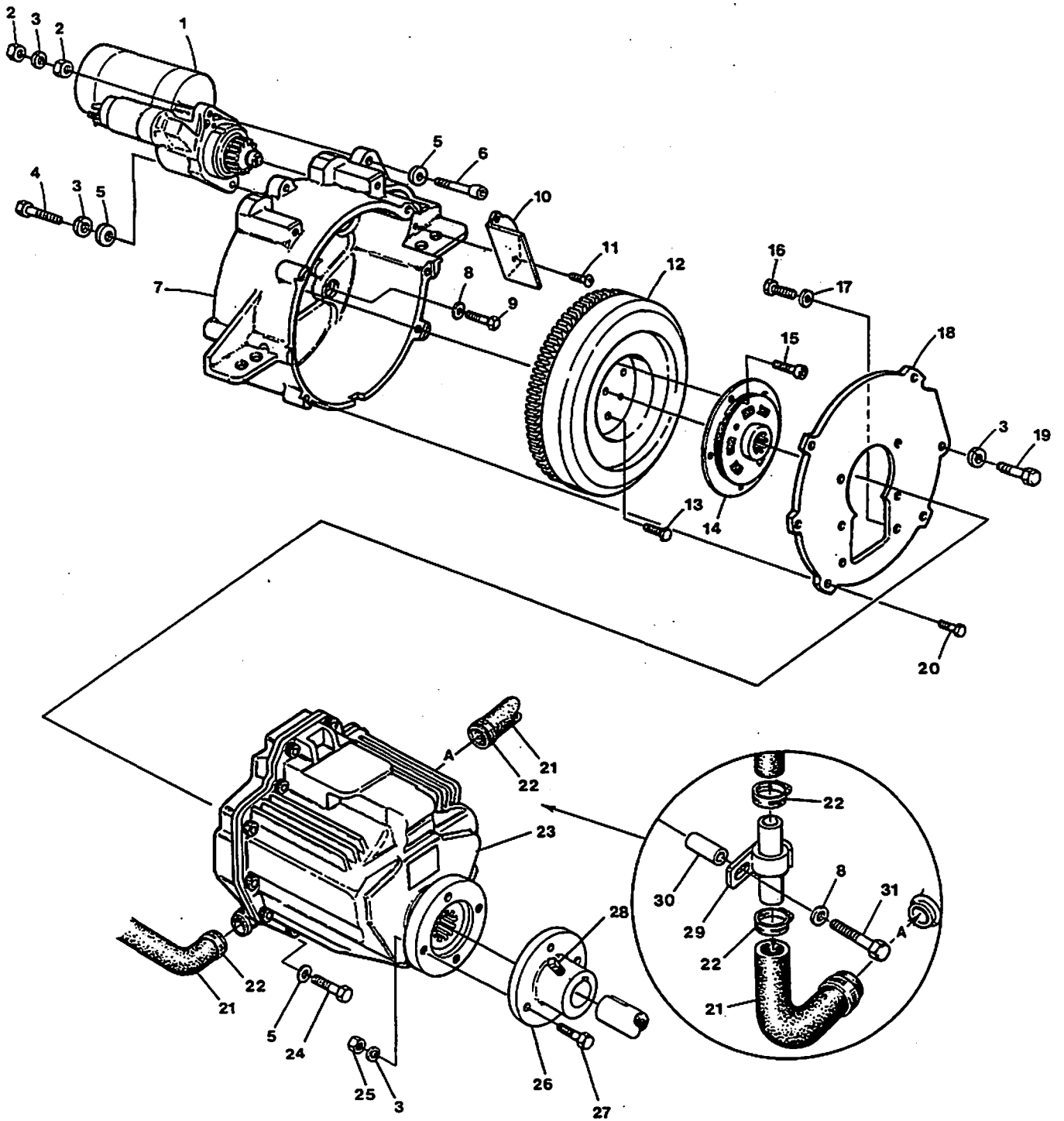
JS TRANSMISSION (STANDARD) - 44A/B



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

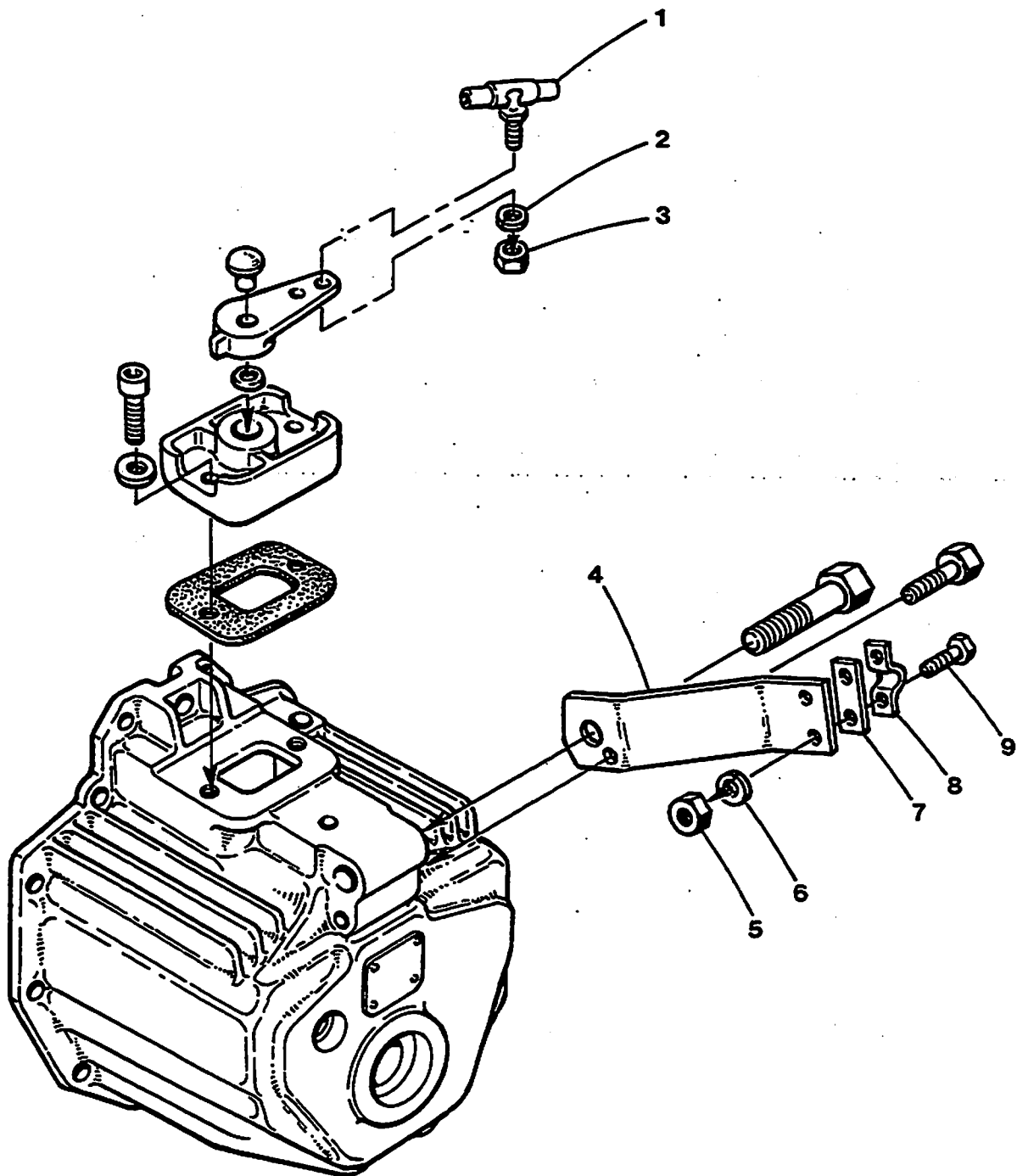
BW7 TRANSMISSION - 44A/B



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

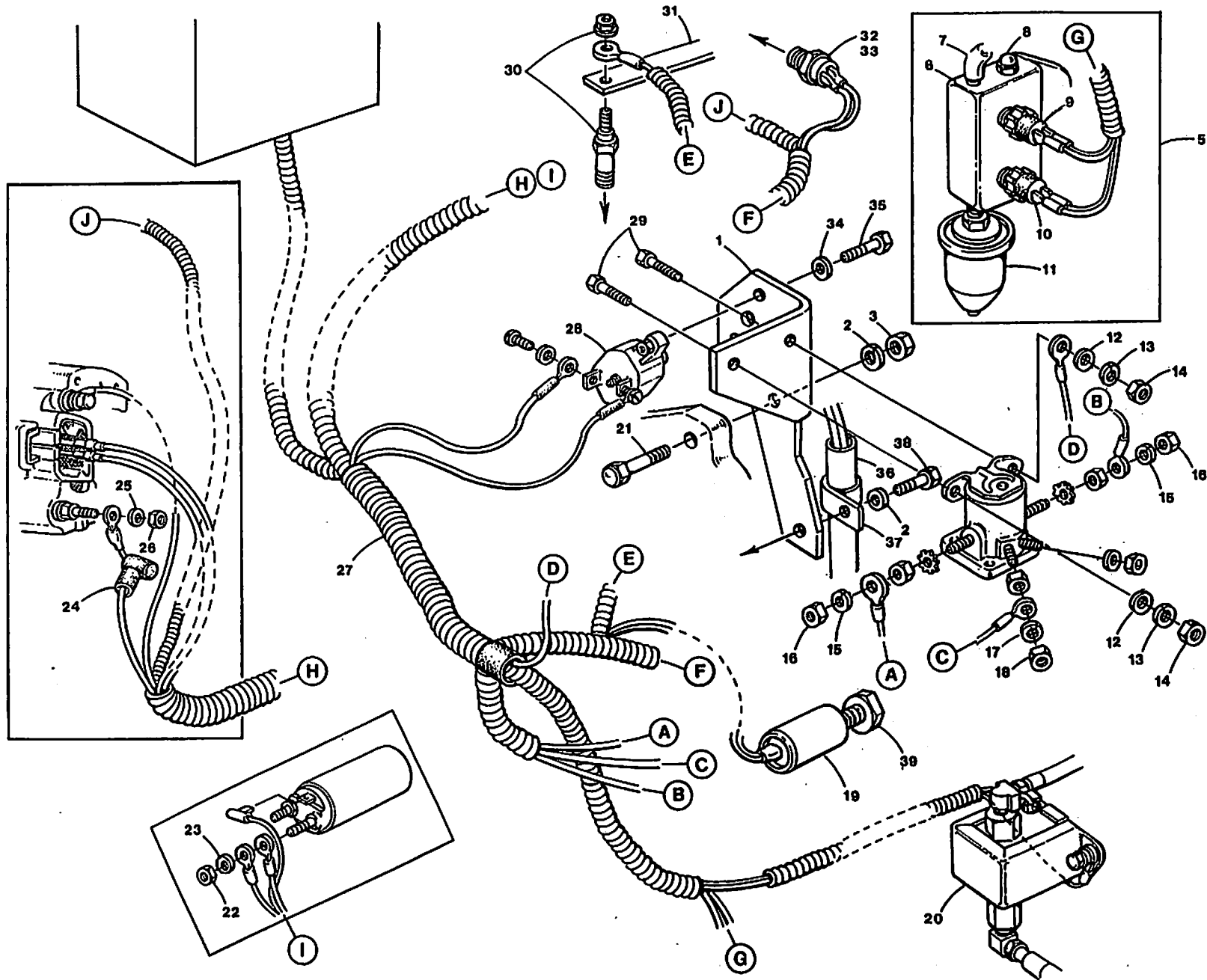
JS TRANSMISSION SHIFTING BRACKET - 44A/B



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

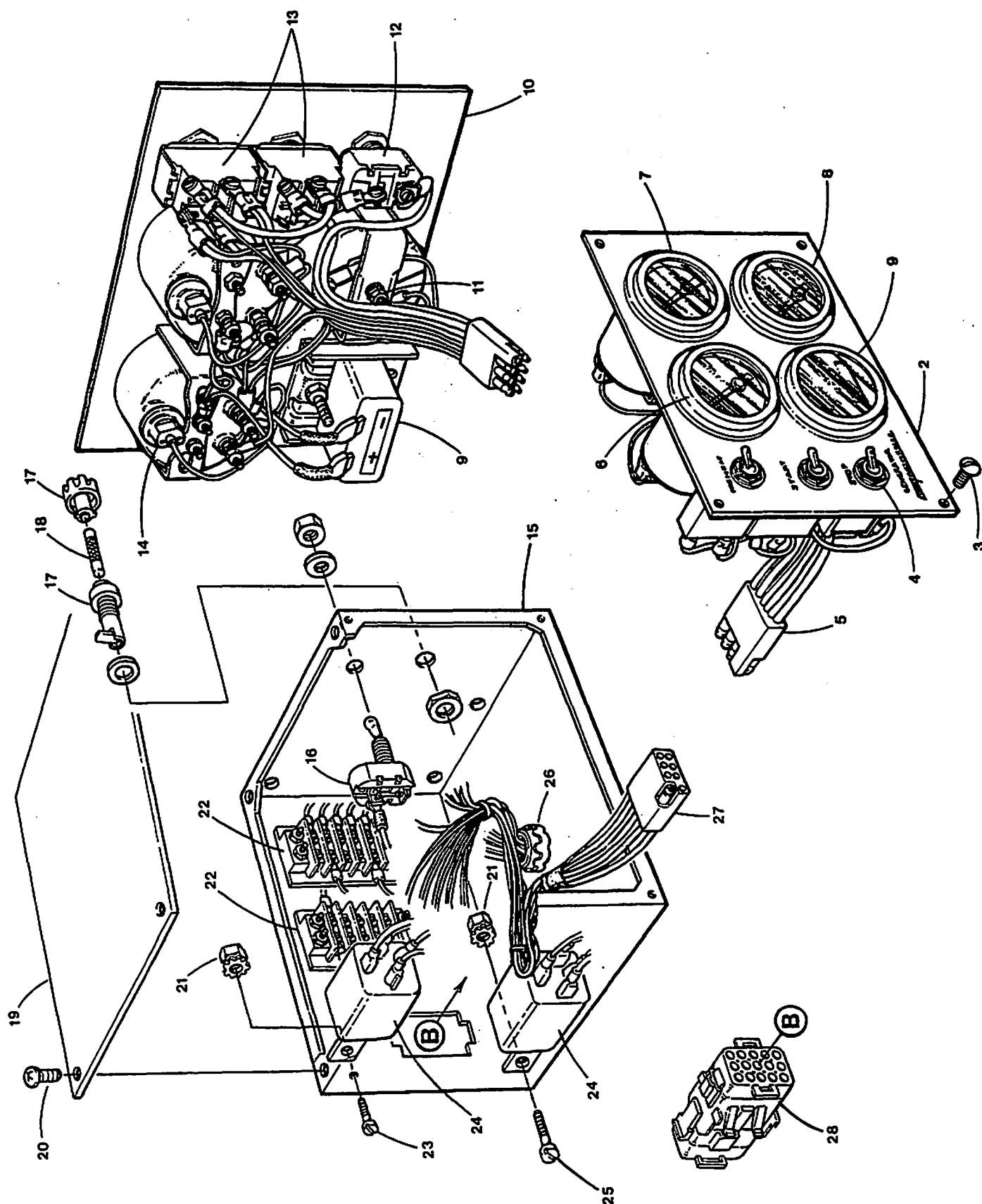
ELECTRICAL SYSTEM - 12.5 BTDB- 15.0 BTDC



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

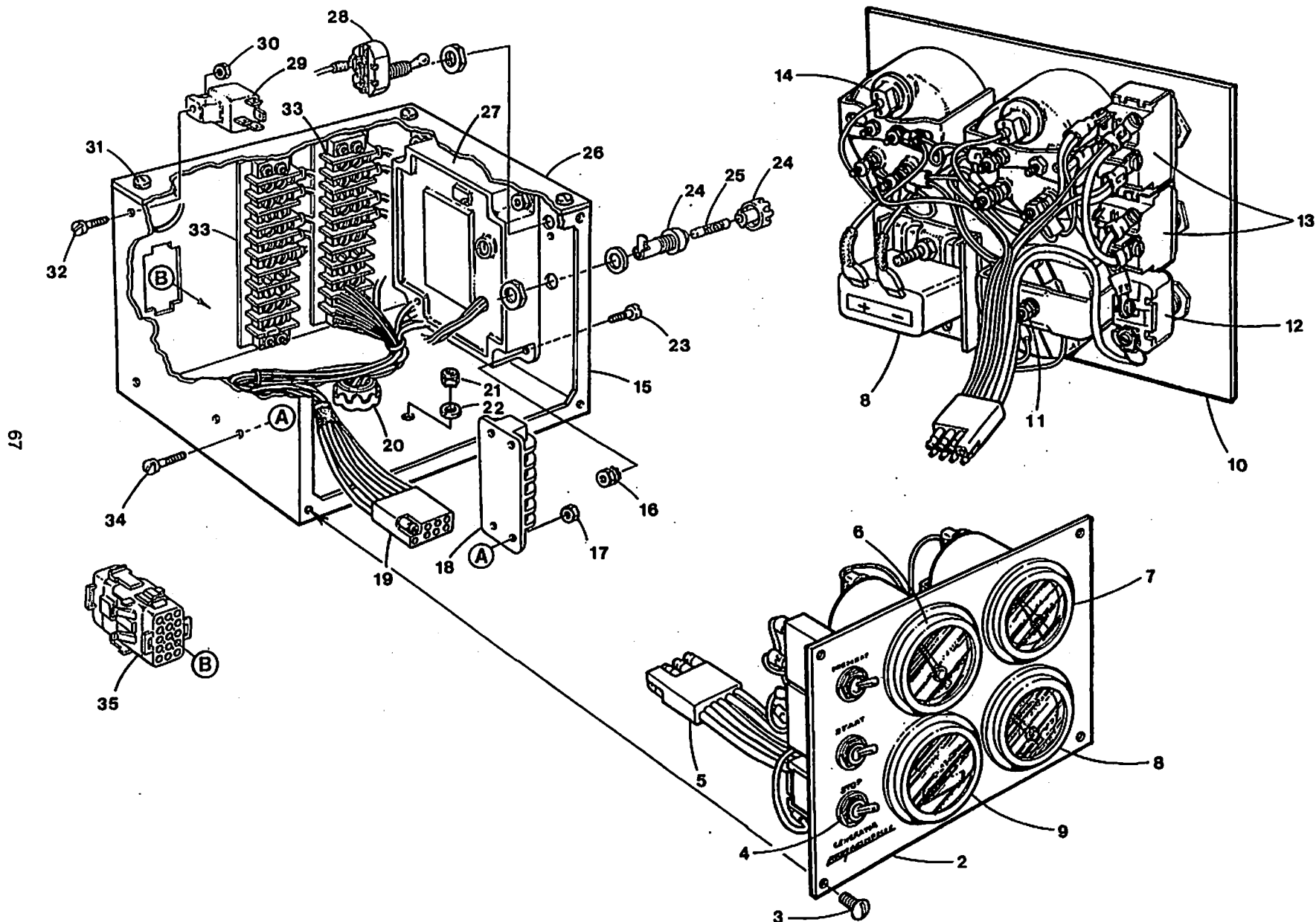
CONTROL PANEL - 12.5 BTDB- 15.0 BTDC



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

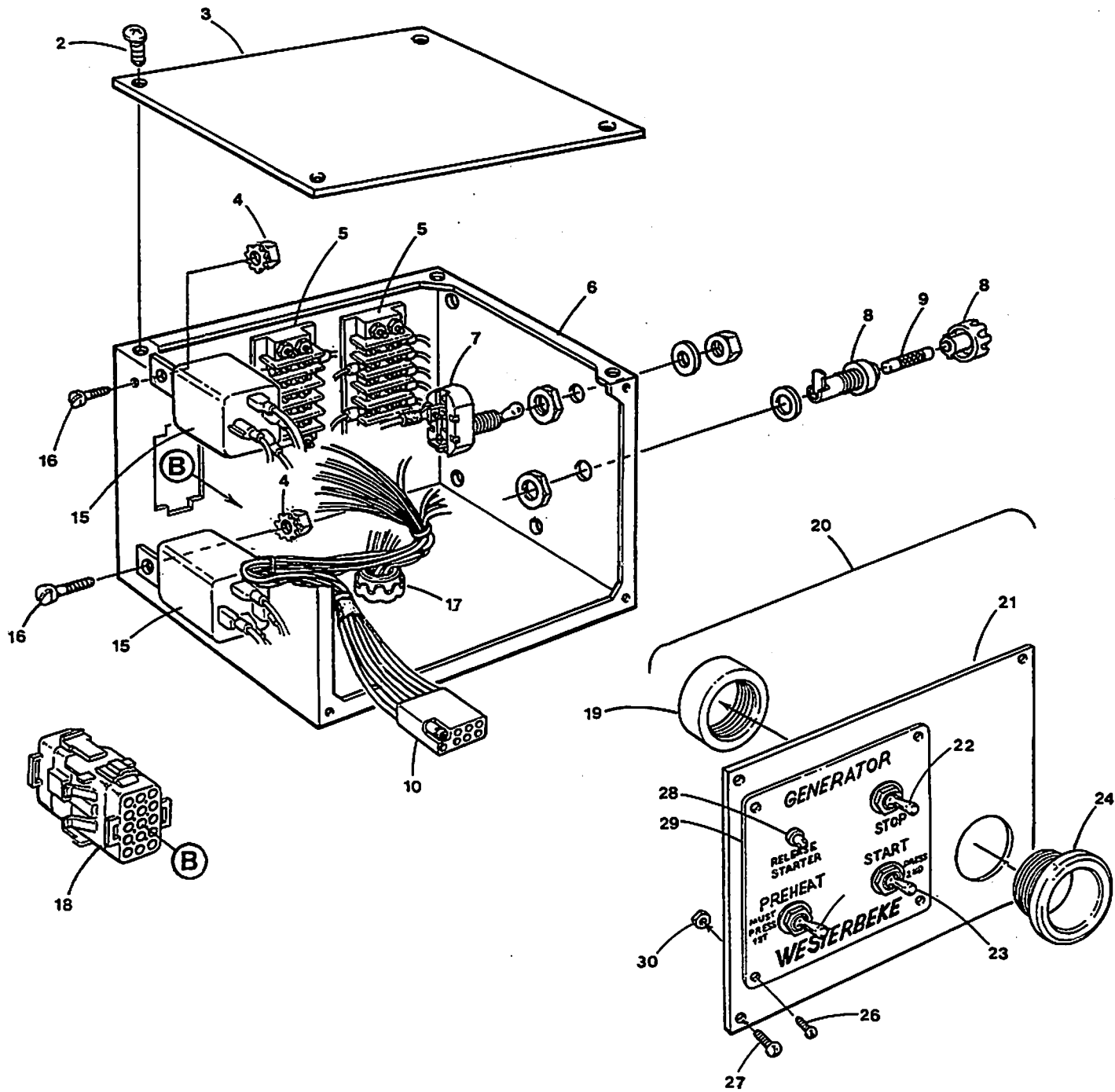
CONTROL PANEL - ELECTRONIC GOVERNOR - 12.5 BTDB - 15.0 BTDC



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

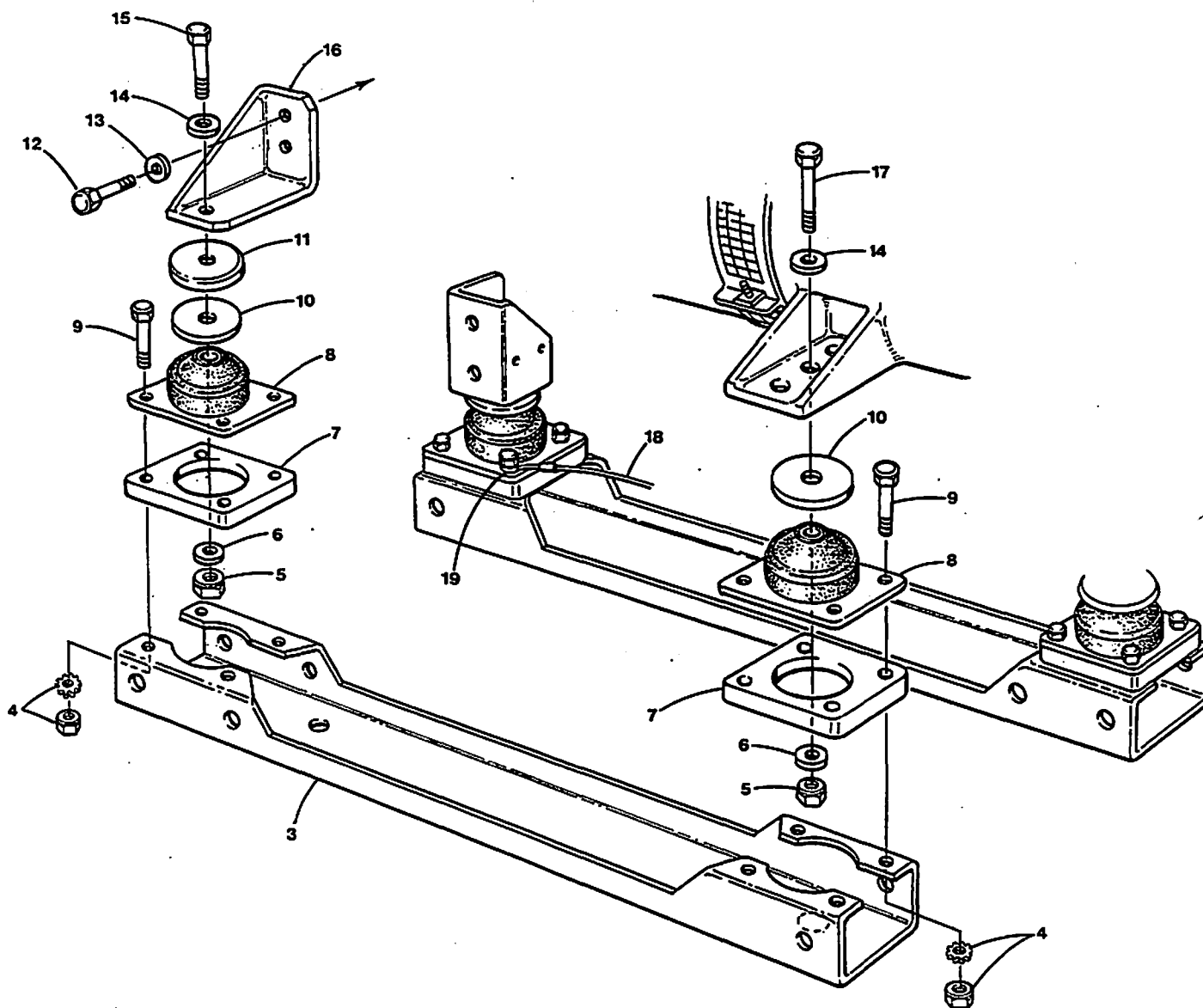
CONTROL PANEL - REMOTE START/STOP - 12.5 BTDB- 15.0 BTDC



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

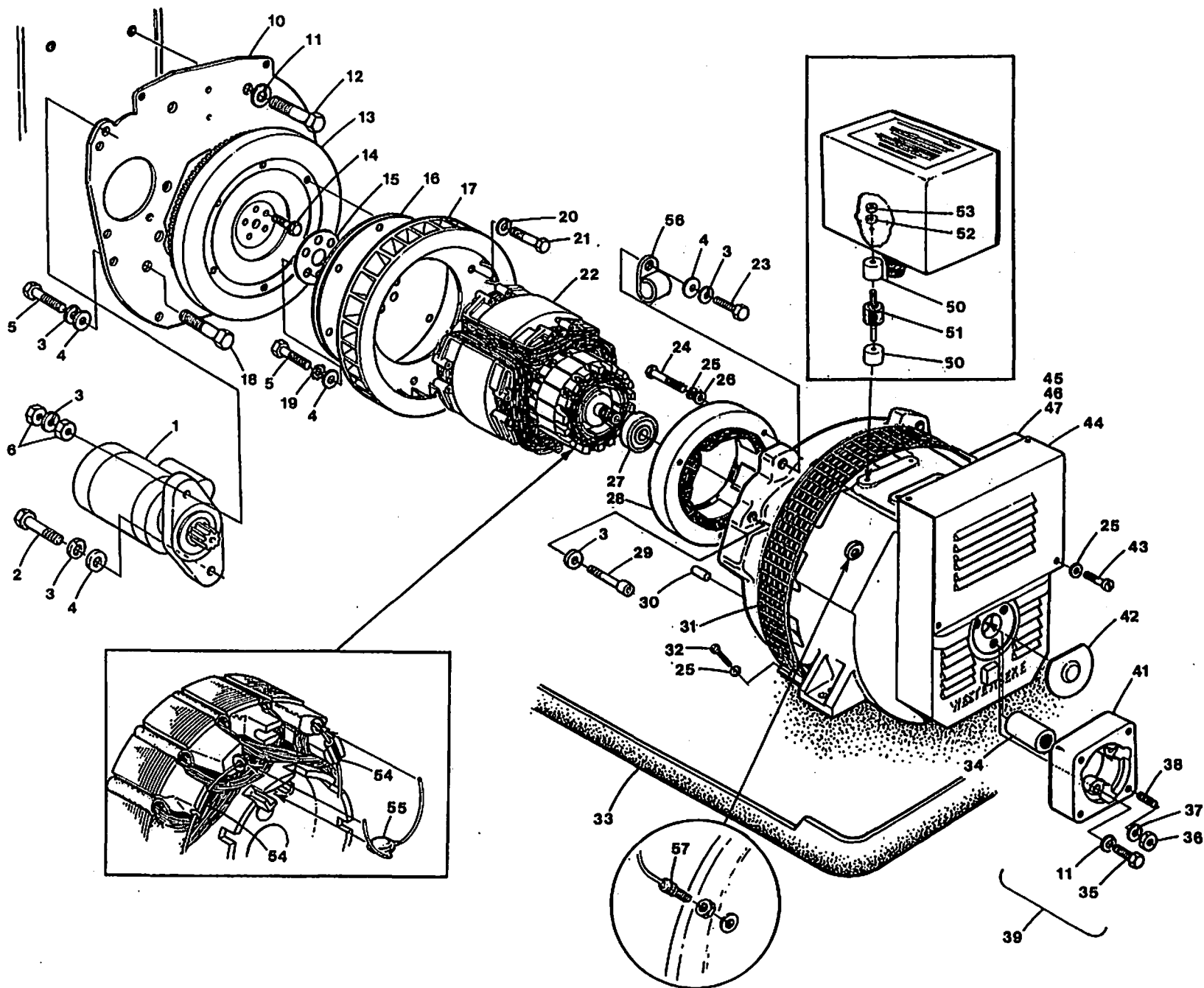
MOUNTING ASSEMBLY - 12.5 BTDB- 15.0 BTDC



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

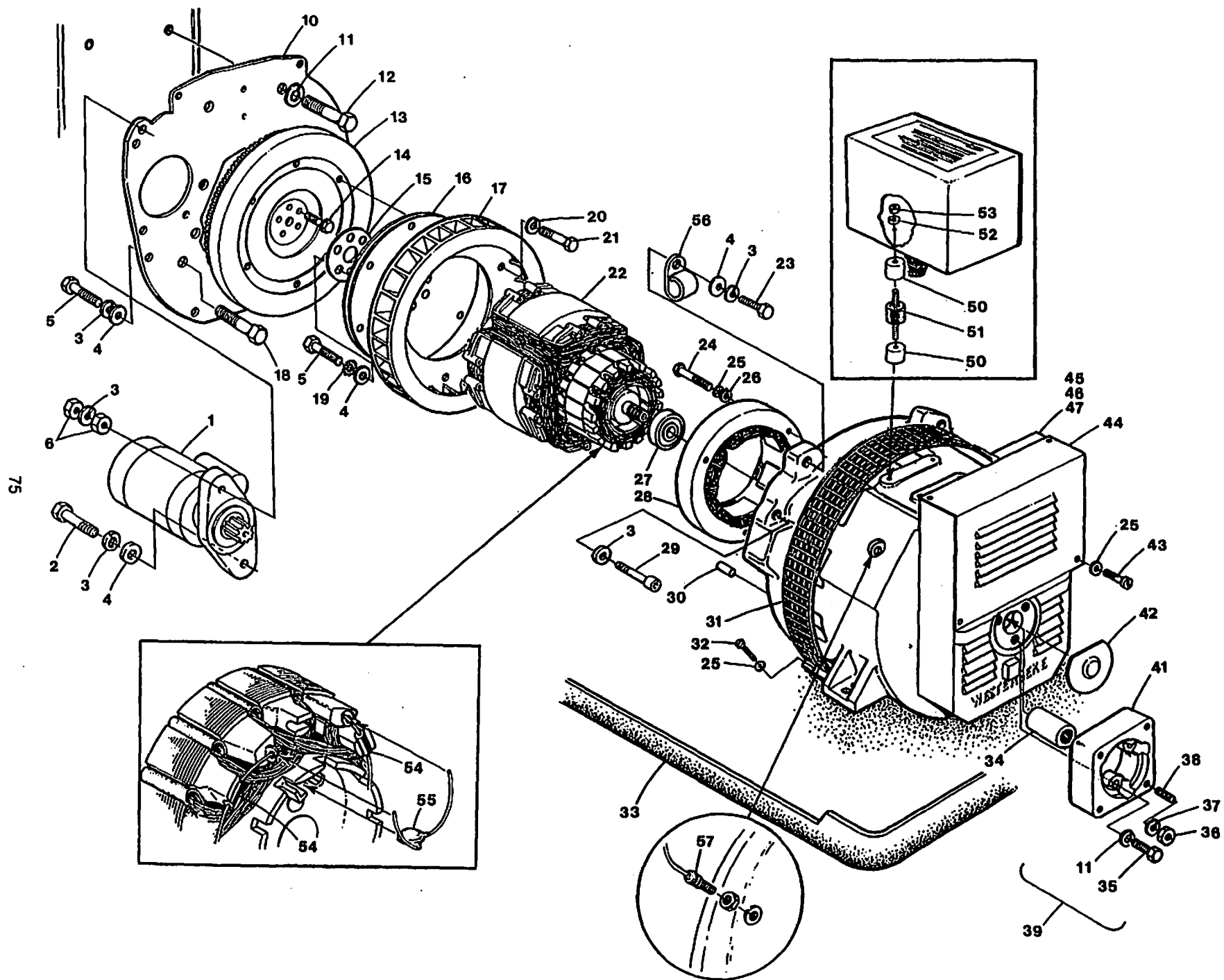
BACK END - 12.5 BTDB- 15.0 BTDC



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

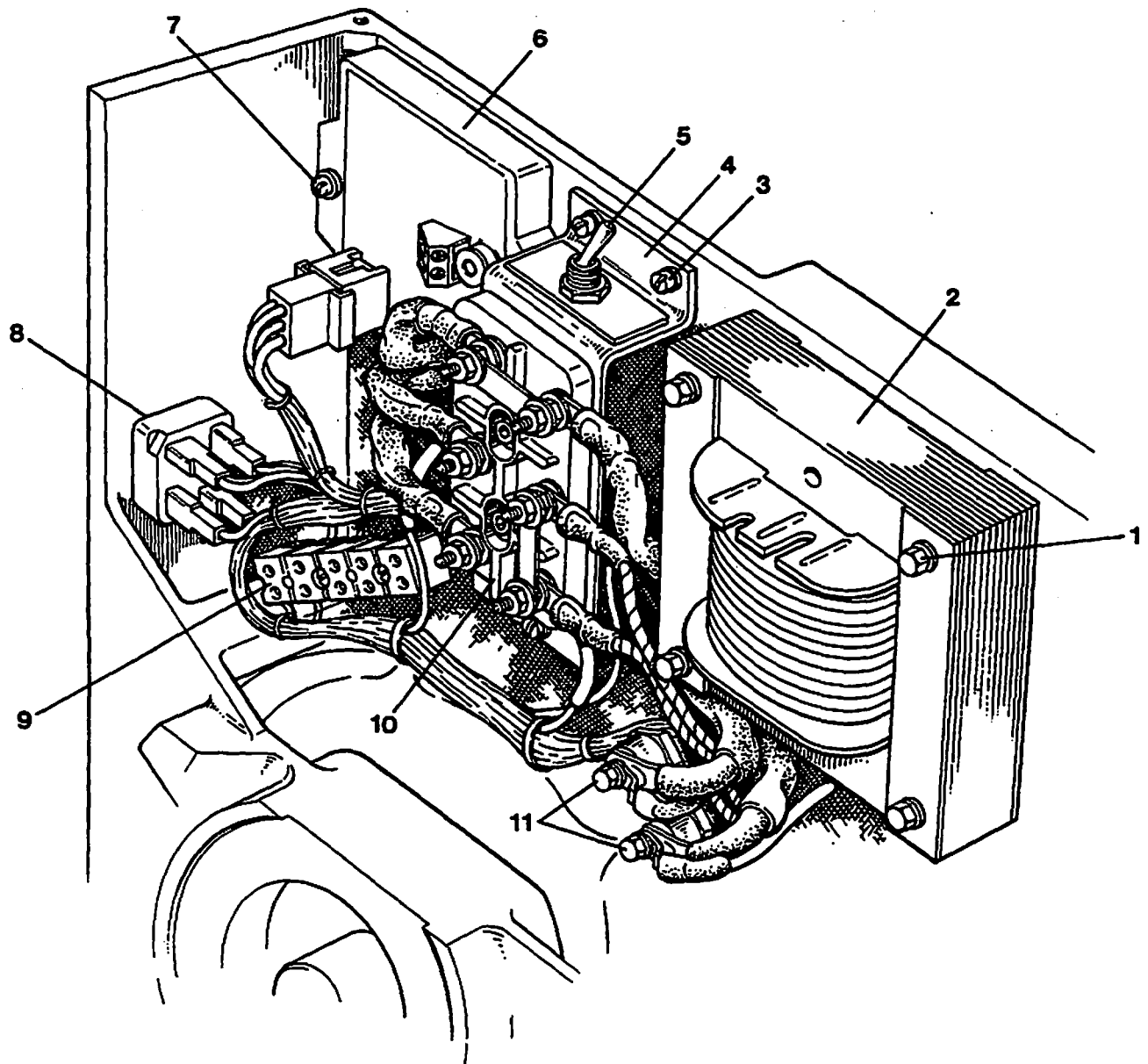
BACK END - 12.5 BTDB-15.0 BTDC



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

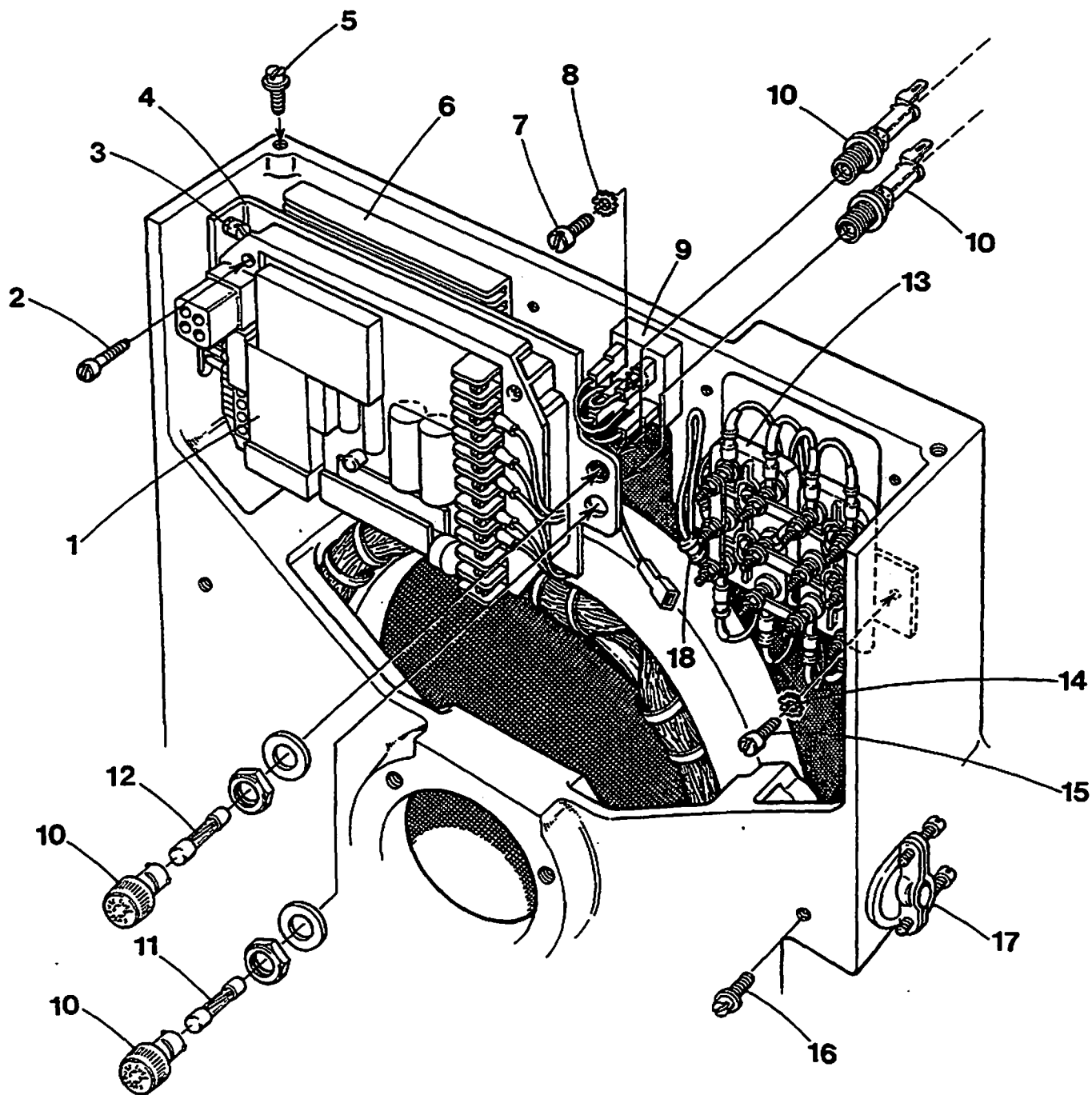
AC OUTPUT AND REGULATOR - SINGLE PHASE - 12.5 - 15.0



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

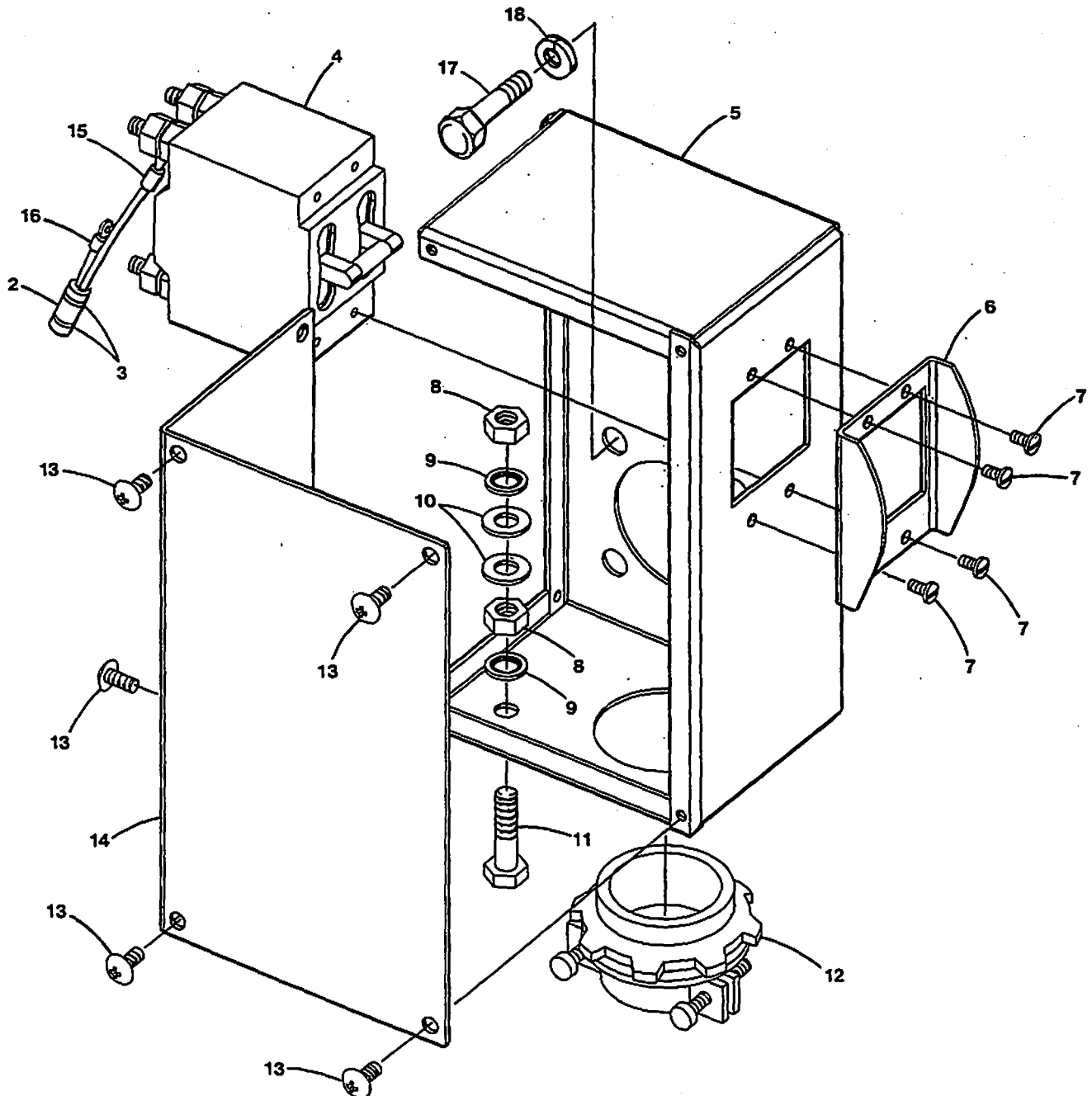
AC OUTPUT AND REGULATOR -THREE PHASE-12.5 BTDB -15.0 BTDC



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

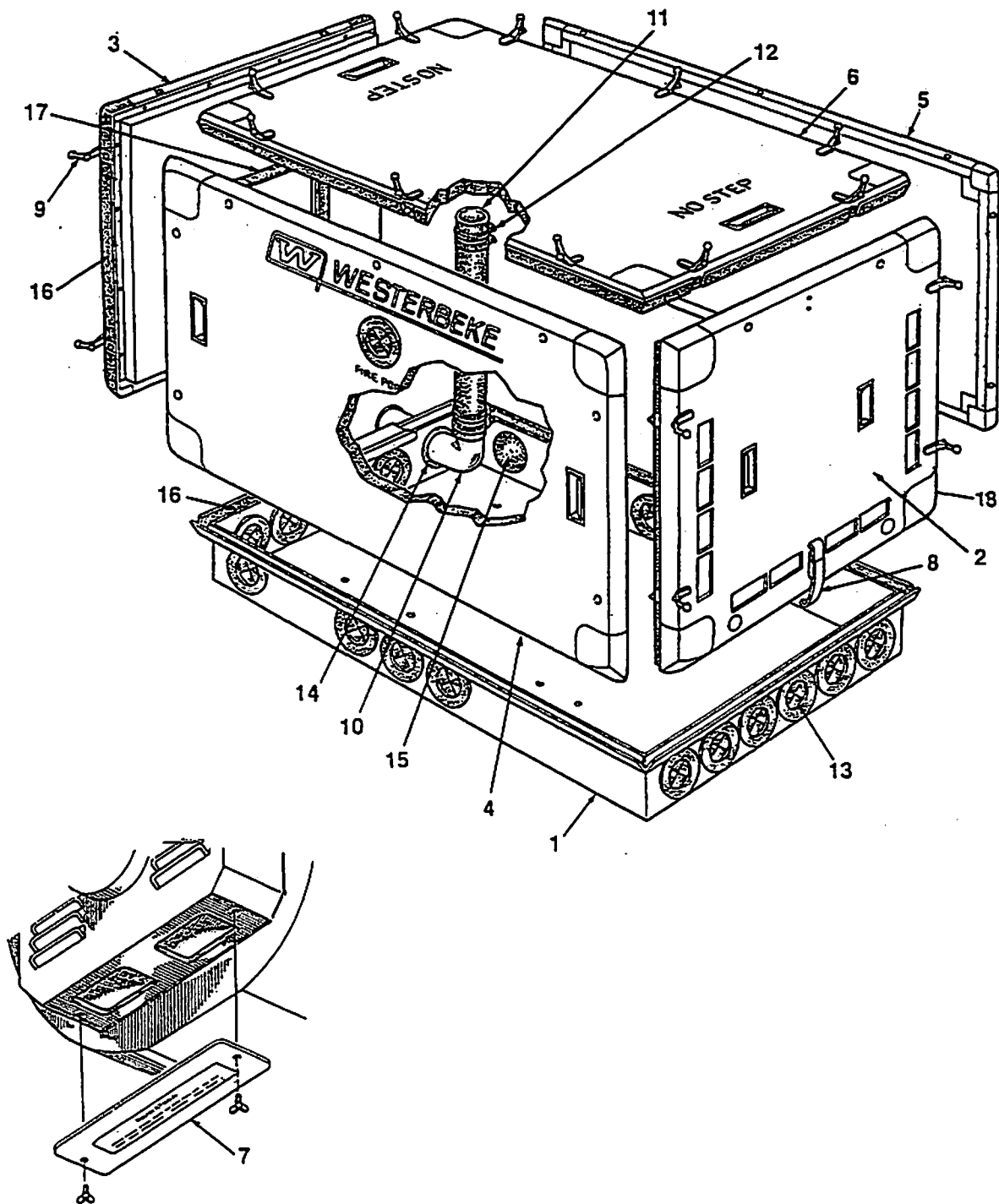
CIRCUIT BREAKER ASSEMBLY- 12.5 BTDB- 15.0 BTDC



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

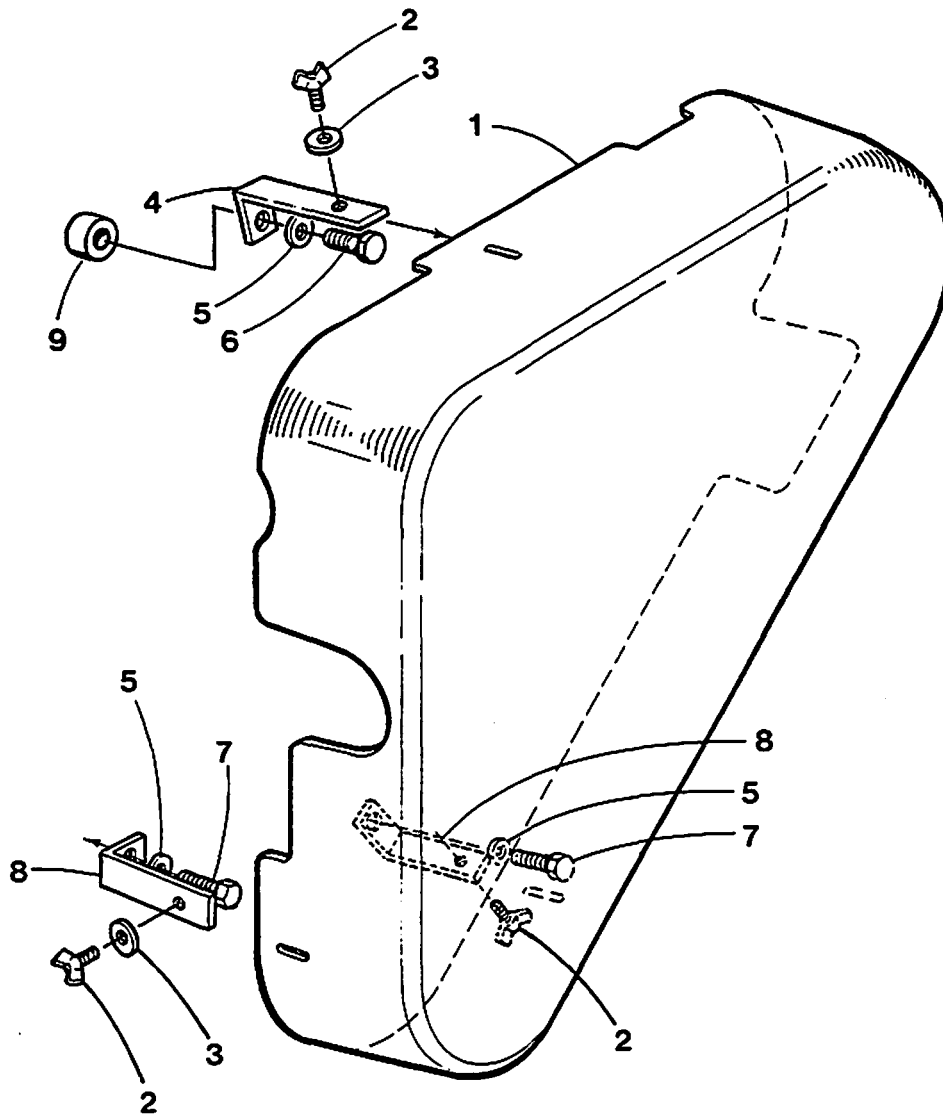
SOUNDGUARD ASSEMBLY - 12.5 BTDB- 15.0 BTDC



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	033899	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

Numerical Parts Index

Part #	Page	Ref	Part #	Page	Ref	Part #	Page	Ref
011341	43	15	013629	73	5	017196	25	30
011386	39	4	013630	53	33	017196	45	8
011386	37	11	013630	47	6-1	017196	15	7
011405	57	14	013631	59	6	017196	31	21
011405	59	22	013737	63	37	017298	21	1
011405	55	38	013758	87	13-1	017298	43	17
011411	83	12	013760	75	56	018242	13	14
011471	43	30	013776	81	3	018242	49	24
011471	37	22	013870	31	19	018242	37	23
011489	63	4-3	013870	53	30	018242	27	22
011548	47	20-3	013870	61	7	018242	27	9
011552	63	9	013871	31	14	018242	39	8
011552	21	22	013919	57	8	018242	37	1
011615	21	21	015010	87	11	018242	63	22
011779	55	37	015122	63	7	018804	49	7
011796	31	9	015122	21	15	018804	27	26
011811	69	24	015238	71	8	018812	47	11
011812	69	19	015289	21	16	018813	53	16-2
011885	37	19	015812	27	18	019031	51	18-2
011885	39	24	015812	75	53	019039	73	30
011916	21	25-3	015812	35	48	019262	17	7
011917	51	19	015812	67	21	019262	27	28
011925	23	5	015812	63	26	019262	53	17-2
011984	21	23	015812	49	27	019262	47	2
013325	61	8	015816	79	16	019262	3	10-1
013325	31	18	015828	13	11	019262	49	4
013325	53	31	015830	37	7	019262	73	3
013340	27	17	015830	39	29	019262	59	3
013340	29	19	015887	59	2	019262	57	3
013348	23	4	015887	73	6	019262	63	2
013355	51	27	015887	63	3	019262	53	2
013589	73	35	015887	53	1	019262	3	10-2
013590	31	8	015887	57	5	019321	39	13
013590	43	12	016988	25	23	019321	37	20
013590	25	31	017012	47	12	019364	31	1
013619	43	31	017012	29	22	019369	21	14
013629	73	29	017196	9	1	019369	39	23
013629	53	20	017196	73	21	019369	43	25
013629	59	19	017196	55	42	019369	63	8

Numerical Parts Index

Part #	Page	Ref	Part #	Page	Ref	Part #	Page	Ref
019398	53	14	023710	59	26-5	024778	57	27
020650	59	16	023711	57	17-6	024786	41	5
020650	53	16-1	023711	53	22-6	024836	75	50
020654	87	15	023711	59	26-6	024844	21	11
020946	63	28-2	023712	57	17-7	024858	41	3
021611	47	30	023712	53	22-7	024905	17	16
021676	25	34	023712	59	26-7	024906	41	1-2
021878	43	29	023937	69	17	024906	17	9
021878	37	4	023937	67	20	024906	37	32
021878	39	9	023937	65	26	024906	39	34
022249	63	4-2	024132	63	11-1	024906	43	39
022249	63	4-4	024132	21	25-1	024907	39	31
022850	39	14	024177	87	18	024907	37	6
022850	37	18	024306	37	31	024915	25	26
022851	37	21	024306	39	32	024922	17	19
022851	39	12	024349	3	7	024943	69	29
022852	39	15	024349	1	10	024947	51	29-1
022852	37	17	024353	49	9	024948	43	7
023450	53	24-1	024353	63	30-1	024948	33	8
023651	57	19-1	024373	3	2	024948	13	25
023651	53	24-2	024602	43	24	024949	85	7
023651	59	28-2	024602	63	33	024950	47	4
023652	59	28-1	024630	53	25-2	024950	59	25
023652	57	19-2	024637	41	2	024950	57	16
023652	53	24-3	024639	49	21	024950	53	21
023706	59	26-1	024639	63	4-1	024951	49	5
023706	57	17-1	024674	71	10	024951	3	11-1
023706	53	22-1	024683	49	28	024951	3	11-2
023707	57	17-2	024683	63	28-1	024951	27	29
023707	53	22-2	024688	43	36	024952	17	8
023707	59	26-2	024704	41	4	024959	71	12
023708	57	17-3	024731	69	22	024959	73	18
023708	53	22-3	024731	67	12	024959	29	3
023708	59	26-3	024731	65	12	024959	21	20
023709	59	26-4	024732	67	13	024972	27	4
023709	57	17-4	024732	69	23	024972	29	14
023709	53	22-4	024732	65	13	024972	25	27
023710	57	17-5	024778	53	15	024977	41	1-1
023710	53	22-5	024778	59	15	024983	85	6

Numerical Parts Index

Part #	Page	Ref
024983	47	16
024984	27	3
024984	29	13
024996	51	13
030001	51	14
030002	51	12
030003	51	10
030048	53	36-2
030049	53	25-4
030067	81	2
030119	51	3
030125	43	34
030131	3	9-2
030131	3	9-1
030140	53	25-1
030148	51	17
030166	59	21
030181	53	35
030198	13	8
030199	29	16
030199	27	14
030200	27	15
030200	29	17
030203	13	17
030208	33	37
030209	13	24
030210	29	6
030210	27	10
030237	7	2
030241	5	14
030242	5	16
030272	1	26
030273	5	21
030275	11	7
030275	7	9
030277	33	25
030279	5	2
030286	1	25
030289	29	11

Part #	Page	Ref
030289	25	24
030289	27	11
030291	29	12
030291	17	22
030291	25	28
030291	27	5
030315	25	1
030326	45	2
030326	13	18
030361	7	8
030395	9	2
030434	5	22
030474	43	4
030475	47	29-4
030484	9	6-2
030551	25	37-5
030556	25	37-1
030557	25	37-2
030558	25	37-3
030559	25	37-4
030578	33	26
030593	59	1
030593	73	1-1
030593	53	4
030593	57	1
030706	1	23
030707	1	4
030709	1	24
030711	1	21
030711	1	9
030711	3	5
030756	53	26
030760	87	16-1
030901	83	11
030913	51	2
030940	59	14
030940	57	28
030946	51	28
030951	59	23-1

Part #	Page	Ref
031225	27	2
031225	43	8
031228	57	18
031228	53	23
031228	59	27
031249	53	36-1
031281	13	16
031451	61	4
031503	63	29
031503	23	7
031503	49	29
031506	37	15
031506	39	20
031555	47	6-2
031555	47	17
031557	71	9
031618	47	24-2
031713	29	4
031713	71	15
031714	71	17
031718	77	3-1
031718	47	24-1
031750	63	14
031750	49	15
031752	49	14
031752	37	14
031752	61	2
031752	23	8
031752	63	13
031752	39	21
031753	63	12
031753	37	13
031753	49	13
031753	39	22
031753	25	33
031754	61	3
031758	47	18
031758	49	16
031758	47	7-2

Numerical Parts Index

Part #	Page	Ref
031758	63	15
031759	71	19
031760	63	16
031760	49	17
031764	47	25-2
031774	73	36
031774	71	5
031776	73	37
031776	71	6
031776	47	25-1
031777	29	5
031777	71	14
031781	77	1-3
031781	73	26
031783	47	13
031783	75	52
031783	25	32
031783	27	27
031783	67	22
031783	27	19
031783	43	13
031783	31	7
031783	29	21
031784	27	25
031784	43	14
031784	49	26
031784	63	25
031784	47	14
031784	49	8
031784	31	12
031784	29	20
031786	43	20
031786	53	34
031786	33	34
031786	43	32
031786	37	24
031786	63	23
031786	49	23
031786	73	20

Part #	Page	Ref
031786	81	18
031786	53	17-1
031786	59	17
031786	47	7-1
031786	27	23
031786	31	16
031786	43	6
031786	45	7
031786	37	2
031786	15	8
031786	27	8
031786	29	8
031786	47	10
031786	13	13
031786	39	7
031787	29	7
031787	17	18
031787	13	12
031787	15	9
031787	27	7
031787	45	6
031787	39	6
031787	37	3
031787	43	33
031787	43	5
031789	59	5
031789	47	5
031789	53	3
031789	57	4
031789	73	4
031792	73	11
031792	21	19
031792	39	18
031792	71	13
031792	57	10
031792	53	10
031792	59	8
031792	29	2
031792	1	15

Part #	Page	Ref
031793	21	18
031802	5	5
031802	31	15
031802	33	33
031811	29	9
031812	43	19
031819	47	23
031822	47	28
031828	1	14
031834	59	9
031834	53	11
031834	57	11
031834	73	12
031843	49	2
031843	63	34
031847	61	5
031847	49	18
031847	63	18
031847	53	27
031847	31	4
031849	63	17
031849	49	19
031849	53	28
031849	85	5
031849	31	3
031849	61	6
031852	81	7
031855	67	34
031872	67	32
031872	31	13
031872	69	16
031872	65	23
031872	67	23
031872	65	25
031873	61	9
031873	53	32
031891	69	2
031891	81	13
031891	65	20

Numerical Parts Index

Part #	Page	Ref	Part #	Page	Ref	Part #	Page	Ref
031891	67	31	033052	25	35	034421	69	27
031904	65	11	033149	5	15	034421	65	3
031904	67	11	033228	85	2	034421	67	3
031914	77	8-3	033259	69	7	034422	27	24-1
031914	73	25	033259	65	16	034440	45	15
031914	79	14	033259	67	28	034457	45	1-2
031914	77	1-2	033279	57	9	034458	45	17
031914	77	3-2	033279	53	13	034459	45	12
031914	79	8	033279	59	13	034460	45	16
031915	73	19	033279	73	14	034461	45	13
031916	77	1-1	033280	43	23	034462	45	20
031917	77	7-1	033280	17	11	034463	45	14
031918	79	5	033283	17	12	034464	45	3
031918	73	43	033327	87	12	034466	45	1-3
031918	79	3	033372	85	3	034467	63	30-2
031919	73	24	033381	47	8	034470	57	15
031920	79	7	033381	31	22	034470	63	21
031920	79	15	033473	47	22-2	034470	59	24
031920	73	32	033482	61	1	034485	65	10
031931	77	8-2	033530	71	11	034485	67	10
031934	77	7-2	033625	1	22	034589	57	2
031934	79	2	033636	45	1-1	034589	63	38
031935	39	3	033682	51	16	034589	53	5
031999	65	4	033684	51	11	034589	59	4
031999	67	4	033693	51	9	034589	73	2
032014	1	16	033699	85	4-2	034590	73	23
032161	53	29	033764	51	18-1	034593	71	18
032172	11	12	033769	69	9	034641	25	25
032175	11	10	033769	79	12	034663	23	10
032176	11	11	033769	65	18	034669	49	31
032493	81	9	033769	67	25	034669	63	39
032498	81	8	033865	51	8	034710	45	5
032499	81	10	034189	57	20	034731	75	51
032974	87	10	034189	59	30	034738	73	41
032975	69	28	034196	43	35	034741	27	16
033037	45	19	034228	39	25	034833	53	6
033043	45	11	034265	7	11	034867	73	38
033044	45	4	034410	77	6	034922	47	1-5
033052	31	5	034418	49	1	035109	43	26

Numerical Parts Index

Part #	Page	Ref
035271	71	7
035299	47	29-3
035307	57	26
035411	39	2
035435	43	40
035449	63	24
035449	49	25
035747	41	8-1
035785	43	11
035792	7	10
035792	13	23
035792	5	20
035792	17	15
035792	13	3
035792	17	17
035794	13	10
035794	33	32
035795	15	3
035796	25	20
035796	7	1
035810	25	18
035822	57	25
035825	65	14-2
035825	67	14-2
035825	51	21
035927	73	16
035928	73	15
035929	73	17
035931	75	54
035935	73	31
035943	77	11
035943	75	55
036045	7	5
036045	17	10
036192	65	9-1
036192	67	9-1
036425	41	10
036473	51	23
036477	51	32

Part #	Page	Ref
036479	51	26-1
036483	51	29-2
036490	51	26-2
036493	17	23
036538	67	5
036538	65	5-1
036539	65	2-1
036539	67	2-1
036541	41	11
036544	51	33
036545	51	34
036557	87	16-2
036563	49	20
036590	51	24
036612	45	18
036614	41	9-2
036614	55	41
036616	41	9-1
036622	39	11
036622	55	39
036622	37	27
036626	51	30
036627	51	31
036630	51	35
036701	73	42
036702	77	12
036737	79	17
036737	81	12
036821	17	24
036829	51	20
036843	51	1
036849	41	8-2
036899	37	26
036918	21	9
036918	23	11
036921	25	19
036922	25	15
036925	25	9-1
036926	25	9-2

Part #	Page	Ref
036927	25	9-3
036928	25	9-4
036929	25	9-5
036930	25	9-6
036931	25	9-7
036932	25	9-8
036933	25	9-9
036934	25	9-10
036935	25	13
036943	1	8
036944	33	5
037091	25	7
037100	63	19-1
037100	49	30
037106	25	10
037107	25	11
037108	25	12
037109	25	14
037112	25	8
037134	73	39
037188	73	34
037197	73	40
037298	83	7
037323	63	10
037323	49	11
037323	21	24
037378	73	33
037393	17	21
037401	41	6
037402	41	7
037430	73	46-1
037437	73	45-1
037453	43	41
037456	57	22
037460	73	27
037463	77	2
037464	73	22-1
037465	73	45-2
037466	73	45-3

Numerical Parts Index

Part #	Page	Ref	Part #	Page	Ref	Part #	Page	Ref
037467	73	28-1	038469	79	6	039858	67	29-2
037468	73	22-2	038470	79	4	039906	59	23-2
037469	73	46-2	038471	79	11	039908	73	22-3
037470	73	46-3	038472	79	10	039911	75	47-2
037504	57	21	038606	29	18	039912	73	28-2
037504	59	29	038619	81	1-1	039913	75	47-1
037507	57	23	038620	81	1-2	039928	65	22
037507	59	31	038622	81	11	039928	67	33
037601	65	6-1	038643	81	15-1	039928	69	5
037601	67	6-1	038646	81	16-2	039959	27	24-2
037601	51	6	038676	79	18	040008	53	18-2
037603	51	7	038678	45	10	040030	47	9-3
037603	65	7-1	038841	25	17	040036	55	40
037603	67	7-1	038934	81	16-3	040073	23	9
037605	51	15	039004	69	26	040074	23	6
037605	65	8-1	039082	81	6	040075	23	3
037605	67	8-1	039144	51	22	040076	23	12
037653	1	2	039218	59	20	040078	23	1
037672	9	6-1	039275	27	21	040078	87	17
037678	9	6-3	039275	29	23-1	040185	69	3
037679	9	6-4	039336	5	11	040185	65	19
037828	85	8-1	039341	79	19	040185	67	26
037828	85	8-2	039461	65	29	040406	47	19
037830	47	29-2	039478	63	20-1	040407	53	19
037833	65	24-1	039498	83	13	040510	1	17-1
037833	67	29-1	039550	63	32	040511	1	17-2
037833	69	15-1	039550	43	42	040907	21	10
037851	73	44	039578	53	9	040966	1	13
038342	77	10-1	039578	59	11	040966	17	13
038343	77	10-2	039586	53	25-6	041081	65	30
038344	77	10-3	039705	15	5	041081	69	33
038345	77	4	039747	67	27-2	041081	67	36
038346	77	5	039762	59	18	041487	13	1
038347	77	9	039762	53	18-1	041768	57	7
038348	79	13-2	039806	49	12	041768	59	12
038349	79	13-3	039830	59	10	041768	53	12
038464	79	13-1	039830	53	8	042030	57	12
038466	75	47-3	039858	69	15-2	042030	1	18-1
038468	79	1	039858	65	24-2	042032	1	18-2

Numerical Parts Index

Part #	Page	Ref	Part #	Page	Ref	Part #	Page	Ref
042032	57	24	043097	59	7	043818	65	28-1
042065	47	1-4	043248	83	16	043818	67	35-1
042066	47	21	043374	31	20	043818	69	18-1
042111	73	1-2	043402	53	25-5	043823	15	4
042156	65	8-2	043409	73	10	043824	47	26-1
042156	67	8-2	043416	57	6	043830	47	27
042157	65	7-2	043434	43	27	043832	47	15
042157	67	7-2	043445	83	5	043838	47	20-2
042158	65	6-2	043446	83	1	043840	69	6
042158	67	6-2	043447	83	6	043840	65	15
042159	65	9-2	043448	83	2	043840	67	15
042159	67	9-2	043449	83	3	043842	73	13
042161	21	25-2	043474	87	14	043844	47	22-1
042161	63	11-2	043480	63	35	043848	47	26-2
042162	65	2-3	043480	49	3	043870	43	38
042162	67	2-2	043482	43	21	043876	43	18
042225	85	9	043574	83	17	043881	27	6
042235	1	18-3	043626	37	28	043881	25	29-1
042307	87	13-2	043626	39	28	043882	15	10
042316	81	1-3	043649	77	8-1	043899	29	1
042317	81	1-4	043649	79	9	043902	63	6
042340	81	15-2	043659	71	3	043902	21	17
042388	69	25	043660	71	16	043904	17	20
042447	69	31	043679	39	10	043906	49	22
042448	69	20-1	043718	37	16	043909	69	32-2
042620	69	20-3	043722	81	5	043929	69	21-2
042626	81	15-3	043723	81	14	043940	39	5
042638	83	18	043737	69	10	043941	37	10
042708	81	4-3	043737	67	19	043950	69	21-1
042709	81	4-1	043737	65	27	043952	37	5
042709	81	4-4	043746	65	28-2	043952	39	33
042710	81	4-2	043746	67	35-2	043952	43	28
042719	81	19	043746	69	18-2	043953	47	1-1
042782	83	14	043747	69	8	043954	47	3
042893	51	5	043747	65	17	043955	37	9
042893	65	14-1	043747	67	24	043955	39	30
042893	67	14-1	043775	83	9	043957	31	6
043065	33	31	043816	39	26	043977	33	3
043097	53	7	043816	37	29	043980	33	4

Numerical Parts Index

Part #	Page	Ref
043981	33	2
043983	35	43
043984	35	46
043994	37	12
043998	47	9-2
044065	83	15
044068	17	4
044068	87	5
044069	25	21
044074	27	1
044074	49	6
044074	17	6
044080	83	8
044082	43	2
044083	43	3
044085	87	7
044086	1	1-2
044104	17	5
044164	27	20
044168	85	4-1
044180	87	19-2
044184	43	16
044214	29	24
044214	25	29-2
044225	63	19-2
044241	63	27-1
044242	81	16-1
044243	27	12
044243	81	17
044243	29	10
044248	63	1-2
044324	15	11
044338	47	1-6
044340	63	27-2
044347	87	16-3
044360	65	1-1
044360	69	1-1
044361	71	2
044362	71	1

Part #	Page	Ref
044363	65	1-3
044363	69	1-2
044364	63	1-1
044365	85	1
044379	57	13
044436	87	8
044442	69	32-1
044496	25	22-1
044632	11	9
044723	15	6
044735	87	20-1
044799	87	16-4
044800	87	19-3
044807	87	20-2
044826	69	20-2
044877	65	1-2
044878	65	1-4
044894	85	8-3
044895	47	1-2
044925	67	1-1
044926	67	1-2
044927	87	20-3
044970	87	20-4
044989	75	57
044990	63	19-3
044991	63	19-4
045094	67	14-3
045094	65	14-3
045100	87	19-1
045167	11	5-2
045168	11	5-3
045169	11	5-4
045170	5	9
045171	35	44
045173	3	3
045174	3	4
045175	3	8
045176	3	1-2
045177	3	12

Part #	Page	Ref
045178	3	6-1
045179	5	19-2
045180	5	18-2
045181	5	13
045182	5	17
045183	5	3
045184	7	3
045185	5	8
045186	5	1
045187	7	4
045188	5	10
045189	7	7
045190	7	6
045191	1	20
045193	1	5
045194	9	3
045195	9	4
045196	13	5
045197	1	19
045198	13	4
045199	13	19
045200	13	20
045201	13	21
045202	13	2
045203	17	14-1
045204	11	1-1
045205	11	1-2
045206	11	1-3
045207	11	2-1
045208	11	2-2
045209	11	2-3
045210	11	3
045211	11	4
045212	11	6
045213	1	6
045214	13	6
045215	13	9
045216	11	8
045217	13	7

Numerical Parts Index

Part #	Page	Ref
045218	13	15
045220	15	1
045221	15	2
045223	19	2
045224	19	1
045225	17	1
045228	21	13
045230	17	3
045231	43	1
045232	43	9
045232	47	29-1
045233	43	22-1
045234	33	20
045235	33	28
045236	43	37
045237	25	2
045238	25	3
045239	25	4
045240	25	5
045241	25	16
045242	33	27
045243	33	24
045244	33	10
045245	33	17
045246	33	39-2
045247	31	17
045247	35	49
045248	33	7
045249	33	13
045250	33	19-1
045251	33	18-2
045252	33	16
045254	33	11
045255	35	47
045256	33	41-2
045257	33	1-1
045258	33	40
045259	31	2
045259	35	50

Part #	Page	Ref
045260	33	42
045261	33	14
045262	33	15-2
045263	33	9-2
045264	5	23
045265	25	36-1
045266	63	31
045266	49	10
045267	33	30
045269	21	12
045270	5	4
045272	31	10
045272	33	35
045273	5	7
045274	5	12
045275	21	6
045277	5	6
045374	39	19-2
045394	1	7
045395	9	5
045396	1	3
045397	1	11
045398	33	6
045498	87	9-1
045499	87	9-2
045528	39	19-1
045677	21	4
046212	53	25-3
046295	21	5
046296	21	7
046297	21	3
046305	75	49-1
046306	75	48-1
046417	25	22-2
046419	87	6
046420	87	1
046631	63	20-2
046631	29	23-2
046669	27	13

Part #	Page	Ref
046669	29	15
046674	65	7-3
046675	65	8-4
046676	65	9-3
046729	83	10
046739	63	36-1
046741	63	36-2
046746	49	32
046754	65	6-3
046755	65	8-3
046775	65	2-2
046776	65	2-4
046778	39	17
046885	65	5-2
046902	87	4
046903	87	3
046907	33	36
046908	17	2
046909	1	12
046910	25	6
046911	11	1-4
046912	11	1-5
046913	11	1-6
046919	21	2
046920	33	21
047012	11	5-1
047123	21	8
047125	35	45
047126	3	1-1
047127	3	6-2
047128	5	18-1
047129	5	19-1
047130	17	14-2
047131	11	2-4
047132	11	2-5
047133	11	2-6
047134	43	10
047135	33	39-1
047136	33	19-2

Numerical Parts Index

Part #	Page	Ref
047137	33	18-1
047138	33	23
047139	33	9-1
047140	33	15-1
047141	33	22
047142	33	1-3
047143	33	41-1
047144	25	36-2
047145	47	9-1
047146	33	38
047147	33	12
047158	87	2
047256	51	25
047642	83	4
047894	43	22-2
047895	1	1-1
048013	45	9
048019	33	29
048020	33	18-3
048021	47	20-1
048022	33	1-2
048023	33	39-3
048024	33	41-3
048025	37	30
048025	39	1
050201	67	18-1
050234	67	17
050234	67	30
050234	69	30
050374	67	18-2
200125	67	16
200125	65	21
200125	69	4
200127	71	4
299031	37	8
299031	39	27
299527	19	3
299864	31	11
299981	13	22

Part #	Page	Ref
300746	47	1-3
302842	23	2
303008	67	27-1

Part #	Page	Ref
--------	------	-----