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PARTS LIST

WESTERBEKE

90A Four

Marine Diesel Engine

32.0 BEDA - 60 Hz

25.0 BEDA - 50 Hz

Marine Diesel Generators

Publication # 041512

Edition Three

July 2001



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IMPORTANT

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For example, components and subassemblies incorporated in Westerbeke's products and supplied by others (such as engine blocks, fuel systems and components, transmissions, electrical components, pumps and other products) are generally supported by their manufacturers with their own software, and Westerbeke must depend on such software for the design of Westerbeke's own product software. Such software may be outdated and no longer accurate. Routine changes made by Westerbeke's suppliers, of which Westerbeke rarely has notice in advance, are frequently not reflected in the supplier's software until after such changes take place.

Westerbeke customers should also keep in mind the time span between printings of Westerbeke product software, and the unavoidable existence of earlier, non-current Westerbeke software editions in the field. Additionally, most Westerbeke products include customer-requested special features that frequently do not include complete documentation.

In summation, product software provided with Westerbeke products, whether from Westerbeke or other suppliers, must not and cannot be relied upon exclusively as the definitive authority on the respective product. It not only makes good sense but is imperative that appropriate representatives of Westerbeke or the supplier in question be consulted to determine the accuracy and currency of the product software being consulted by the customer.

90A FOUR PROPULSION ENGINE

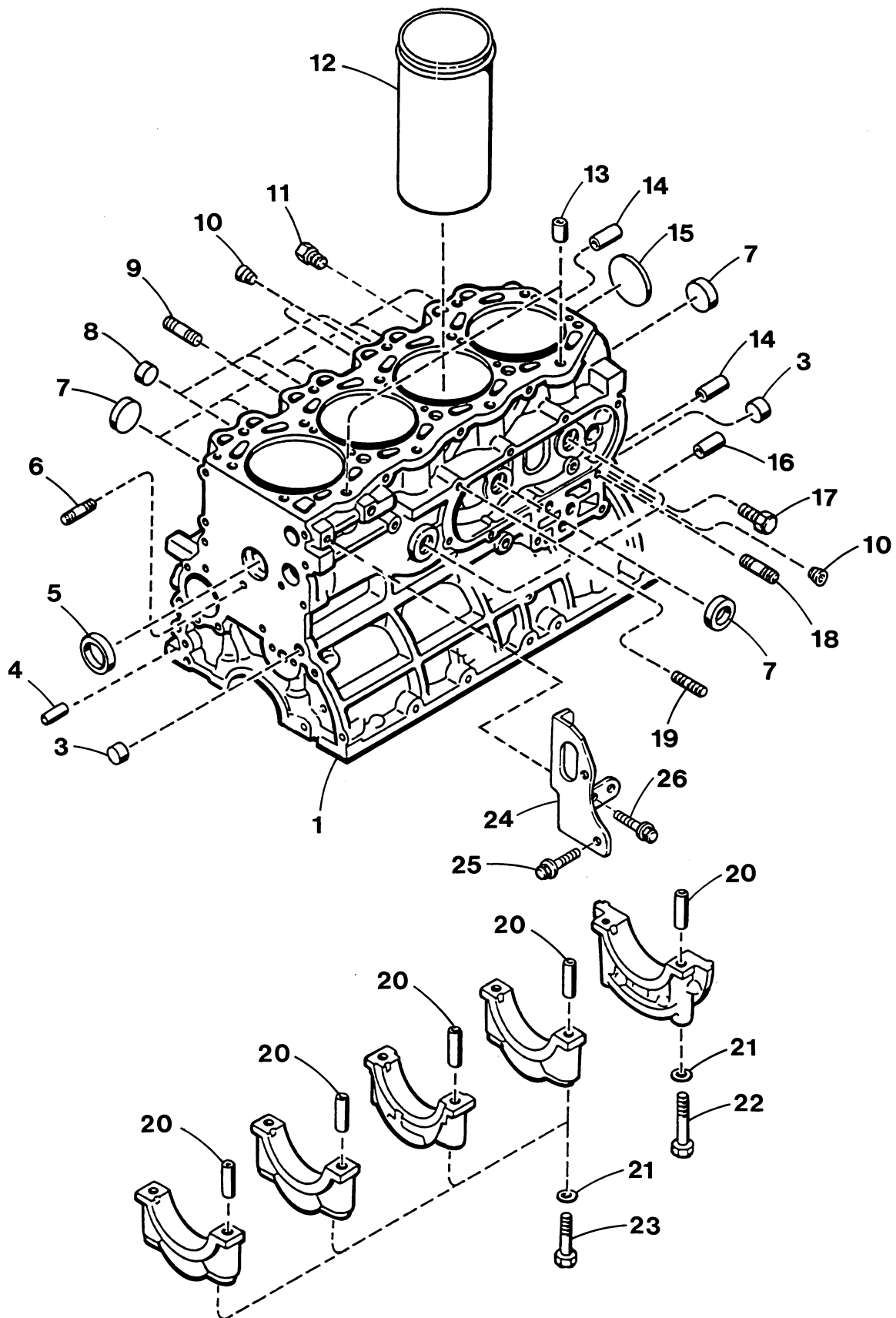
32.0 BEDA GENERATOR - 60 HERTZ

25.0 BEDA GENERATOR - 50 HERTZ

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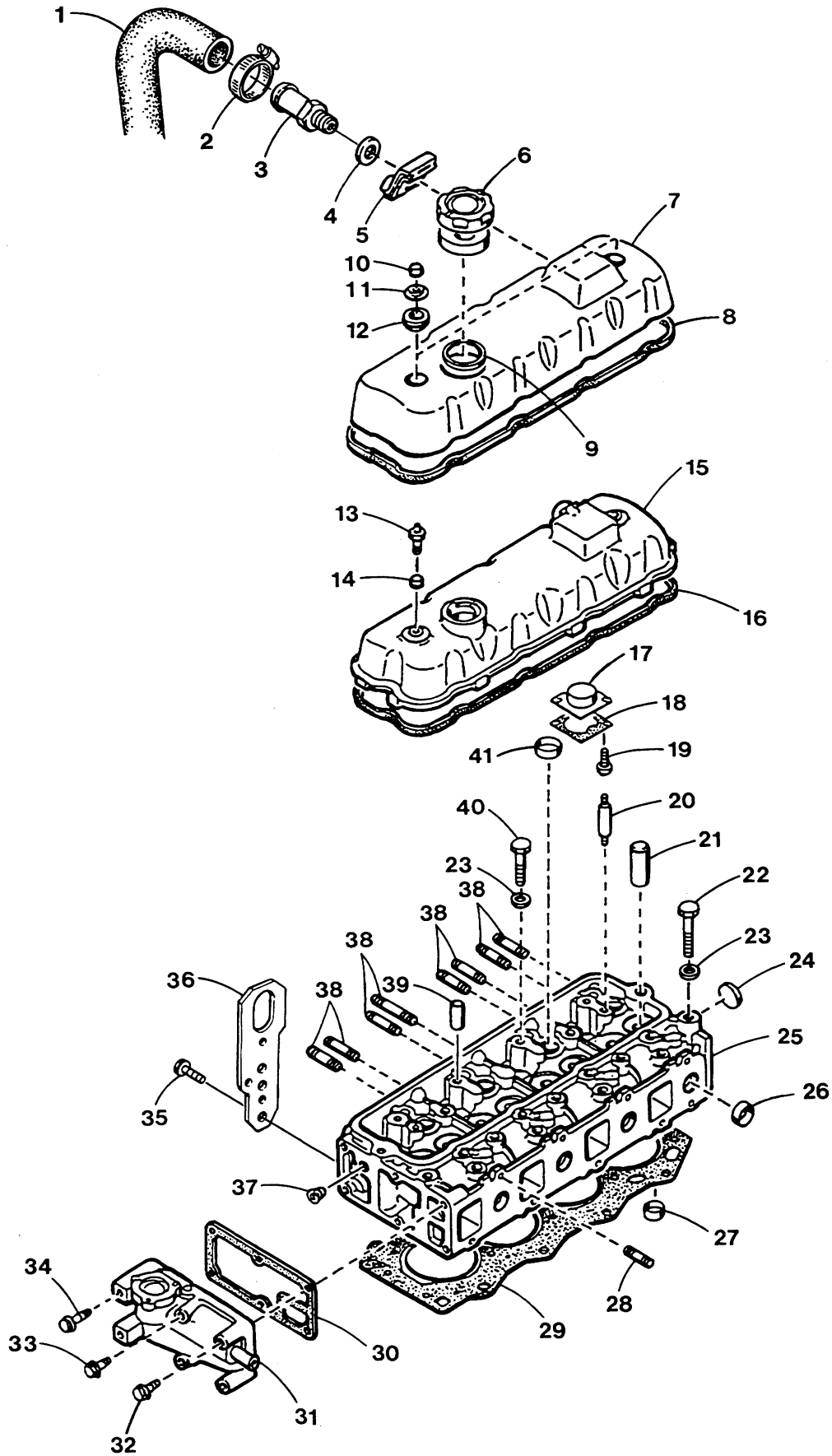
WESTERBEKE 90A - 32.0 BEDA - CYLINDER BLOCK



WESTERBEKE 90A - 32.0 BEDA - CYLINDER BLOCK

REF	PN	NAME	REMARKS	QUAN
1	041300	BLOCK	ASSEMBLY	1
3	034119	PLUG	EXPANSION	2
4	033676	DOWEL	TUBULAR 12MM DIA X 12MM LG	1
5	040255	PLUG		1
6	041436	STUD	M 8 X 68 DIN 939	1
7	024374	PLUG	EXPANSION 30MM DIN 443	7
8	024373	PLUG	EXPANSION 25MM DIN 443	3
9	033678	STUD	M 8 X 12 DIN 939	1
10	030711	PLUG	1/8BSPT DIN 906	4
11	030712	PLUG	1/4BSPT DIN 906	1
12-1	040252	LINER	CYLINDER MARK A	4
12-2	040253	LINER	CYLINDER MARK B	4
13	033656	DOWEL	TUBULAR 16MM DIA X 18MM LG	2
14	031154	DOWEL	STEP	2
15	024379	PLUG	CAMSHAFT	1
16	024393	DOWEL		
17	040254	PLUG		1
18	031281	STUD	M 8 X 40 DIN 939	1
19	015831	STUD	M 8 X 32 DIN 939	1
20	032804	DOWEL	TUBULAR	10
21	032635	WASHER	FLAT	10
22	032643	BOLT	MAIN BEARING CAP-REAR	2
23	032642	BOLT	MAIN BEARING CAP	8
24	040279	EYE	LIFTING	1
25		CAPSCREW	M12 X 1.5 X 20 JIS-FLANGE	1
26-1	017196	CAPSCREW	M 8 X 20 DIN 933 PROPULSION	1
26-2	013619	CAPSCREW	M 8 X 30 DIN 933 GENSET	1

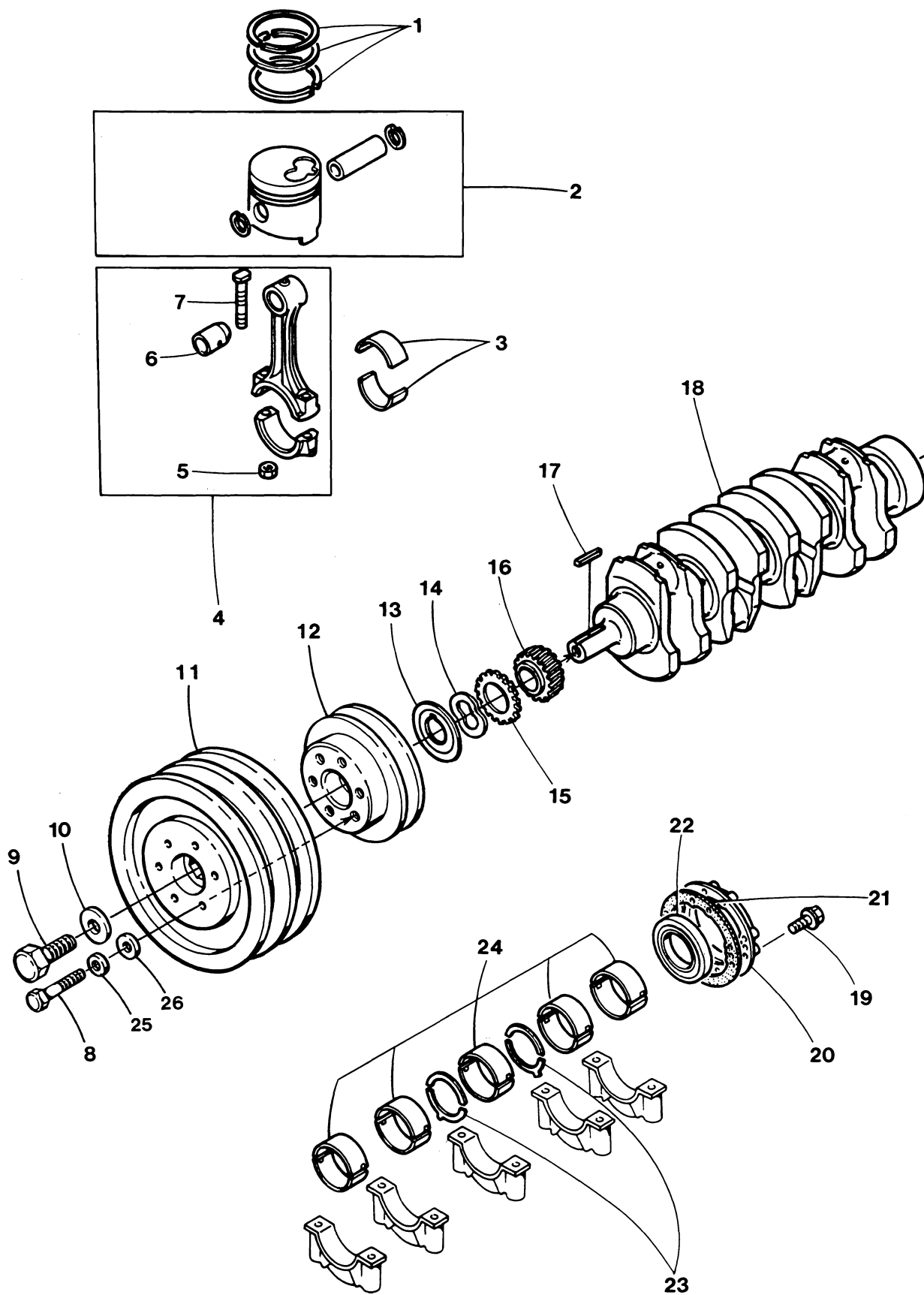
WESTERBEKE 90A - 32.0 BEDA - CYLINDER HEAD



WESTERBEKE 90A - 32.0 BEDA - CYLINDER HEAD

REF	PN	NAME	REMARKS	QUAN
1	200429	HOSE	BREATHER	1
2	301083	CLAMP	HOSE 10	1
3	040240	CONNECTOR	BREATHER	1
4	041421	WASHER	M22	1
5	040245	SEAL	ROCKER COVER	1
6	040151	CAP	OIL FILL	1
7	040241	COVER	ROCKER COVER	1
8	040242	GASKET	ROCKER COVER OUTER	1
9	040243	SEAL	ROCKER COVER	1
10	036211	NUT	M 6 JIS-FLANGE	2
11	040247	SPACER	ROCKER COVER	2
12	040246	SEAL	ROCKER COVER STUD	2
13	040248	STUD	ROCKER COVER	2
14	030985	SEAL	ROCKER COVER STUD	2
15	040239	COVER	ROCKER	1
16	040244	GASKET	ROCKER COVER	1
17	032740	PLATE	BAFFLE-BREATHER	1
18	032741	PLATE	BREATHER OIL BAFFLE	1
19	034172	SCREW	M 4 X 8 RH	4
20	033661	STUD	M 8 X 48 DIN 939	2
21	040251	GUIDE	VALVE	8
22	040234	BOLT	CYLINDER HEAD	11
23	032635	WASHER	FLAT-CYLINDER HEAD BOLTS	10
24	024378	PLUG	EXPANSION 50MM DIN 443	1
25	040232	HEAD	CYLINDER	1
26	024374	PLUG	EXPANSION 30MM DIN 443	4
27	024373	PLUG	EXPANSION 25MM DIN 443	3
28	015830	STUD	M 8 X 25 DIN 939	2
29	040250	GASKET	CYLINDER HEAD	1
30	040237	GASKET	LOWER THERMOSTAT HOUSING	1
31	041198	HOUSING	LOWER THERMOSTAT	1
32	041432	CAPSCREW	M10 X 1.25 X 70 JIS-FLANGE	2
33	041427	CAPSCREW	M 8 X 70 JIS-FLANGE	2
34	041428	CAPSCREW	M 8 X 90 JIS-FLANGE	2
35	033651	CAPSCREW	M10 X 1.25 X 20 JIS-FLANGE	2
36	030131	EYE	LIFTING	1
37	030711	PLUG	1/8BSPT DIN 906	1
38	015831	STUD	M 8 X 32 DIN 939	8
39	040233	CAP	WATER JET	4
40	040235	BOLT	CYLINDER HEAD	7
41	024374	PLUG	EXPANSION 30MM DIN 443	4

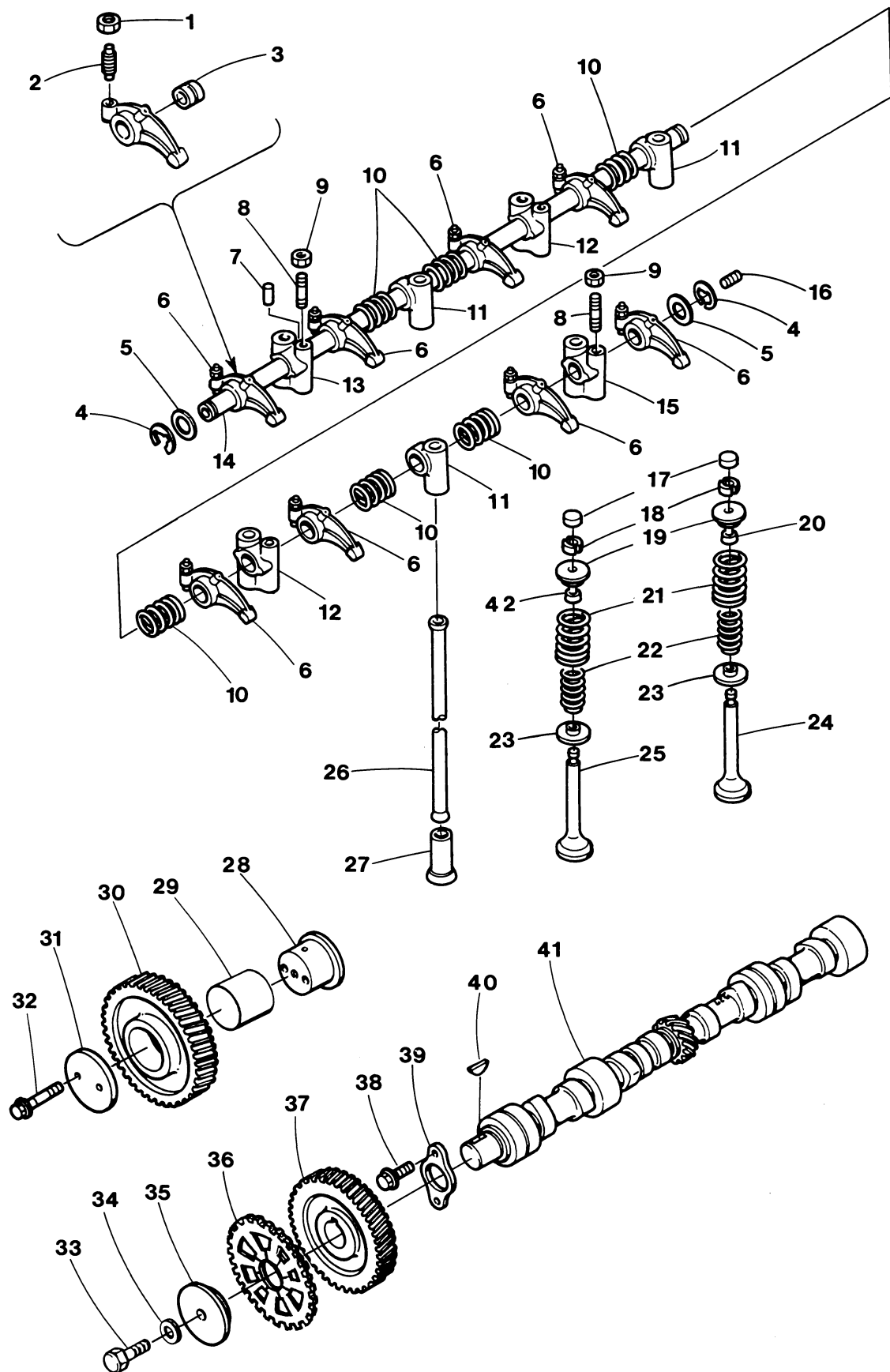
WESTERBEKE 90A - 32.0 BEDA - CRANKSHAFT - PISTONS



WESTERBEKE 90A - 32.0 BEDA - CRANKSHAFT - PISTONS

REF	PN	NAME	REMARKS	QUAN
1	040375	RING SET	STD-ENGINE SET	1
2	040374	PISTON	STD	4
3-1	040370	BEARING	SET CONNECTING ROD STD	1
3-2	040371	BEARING	SET CONNECTING ROD 0.25MM	1
3-3	040372	BEARING	SET CONNECTING ROD 0.50MM	1
3-4	040373	BEARING	SET CONNECTING ROD 0.76MM	1
4	040294	ROD	CONNECTING	4
5	032659	NUT	CONNECTING ROD BOLT	8
6	040295	BUSHING	CONNECTING ROD	4
7	040296	BOLT	CONNECTING ROD	8
8	013619	CAPSCREW	M 8 X 30 DIN 933	6
9	032662	BOLT	CRANKSHAFT PULLEY	1
10	032663	WASHER	CRANKSHAFT PULLEY	1
11	038786	PULLEY	CRANKSHAFT 2 GROOVE	1
12	040190	PULLEY	CRANKSHAFT 1 GROOVE	1
13	040299	SLINGER	CRANKSHAFT FRONT	1
14	040301	SPRING	FRICTION GEAR	1
15	040302	GEAR	FRICTION	1
16	040303	GEAR	CRANKSHAFT	1
17	032903	KEY	CRANKSHAFT GEAR	1
18	040297	CRANKSHAFT		1
19	033644	CAPSCREW	M 8 X 35 JIS-FLANGE	8
20	040298	FLANGE	OIL SEAL CRANKSHAFT REAR INCL SEAL	1
21	040300	GASKET	CRANKSHAFT OIL SEAL FLANGE	1
22	040304	SEAL	OIL CRANKSHAFT REAR	1
23-1	032881	WASHER	THRUST SET STD	1
23-2	032882	WASHER	THRUST SET U/S	1
24-1	040376	BEARING	SET MAIN STD	1
24-2	040377	BEARING	SET MAIN 0.25MM	1
24-3	040378	BEARING	SET MAIN 0.50MM	1
24-4	040379	BEARING	SET MAIN 0.76MM	1
25	031786	LOCKWASHER	M 8 DIN 127	6
26	031787	WASHER	M 8 DIN 125	6

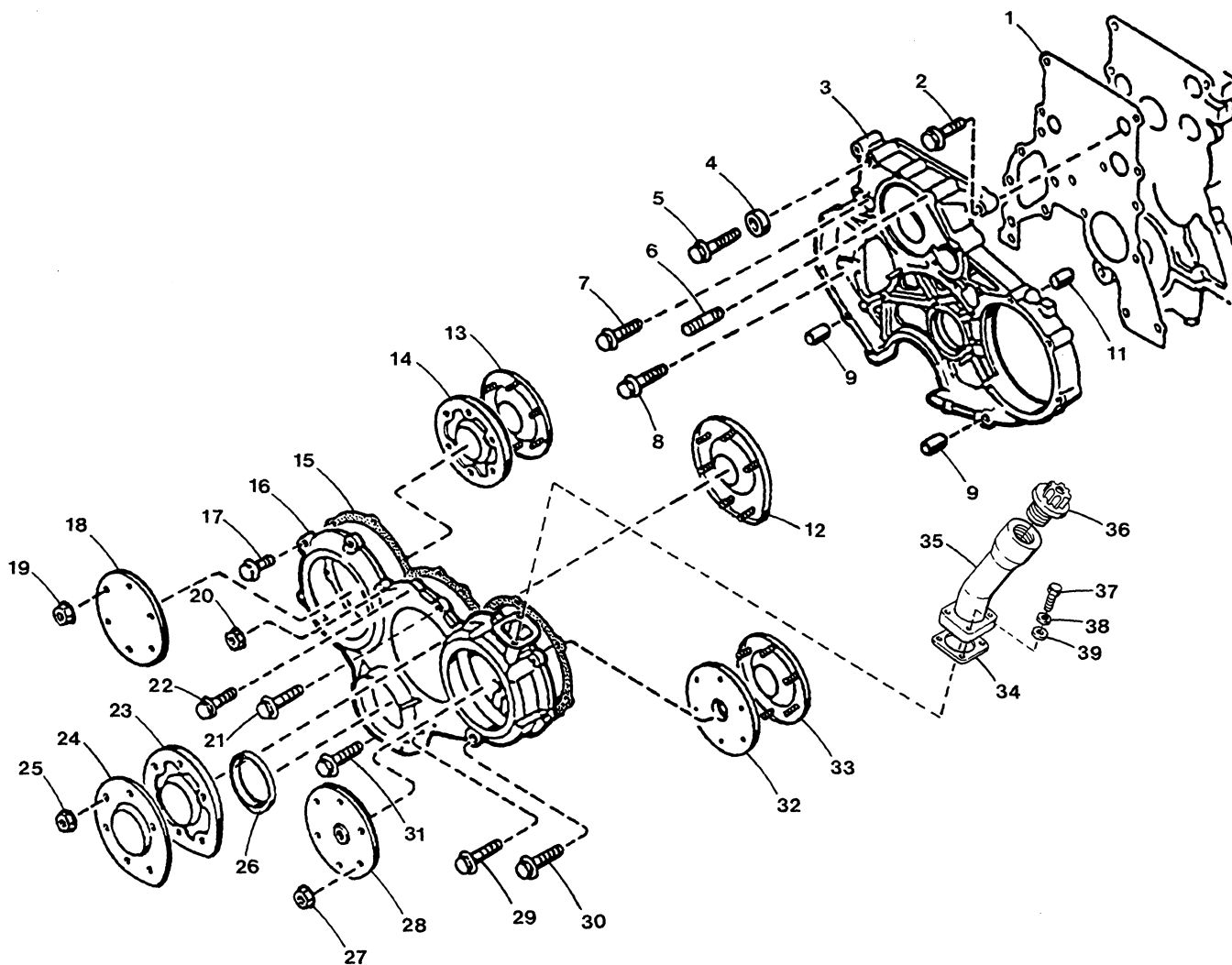
WESTERBEKE 90A - 32.0 BEDA - VALVES - ROCKER SHAFT - CAMSHAFT



WESTERBEKE 90A - 32.0 BEDA - VALVES - ROCKER SHAFT - CAMSHAFT

REF	PN	NAME	REMARKS	QUAN
1	032909	NUT		8
2	040312	SCREW	ROCKER ADJUSTING	8
3	040311	BUSHING	ROCKER	8
4	041422	CIRCLIP		2
5	040316	WASHER	ROCKER SHAFT	2
6	040310	ROCKER	INCLUDING BUSHING, SCREW, LOCKNUT	8
7	032384	PIN	TAPER	1
8	033661	STUD	M 8 X 48 DIN 939	2
9	032682	NUT	PILLAR	2
10	040315	SPRING	ROCKER SHAFT	6
11	040314	BRACKET	ROCKER SHAFT	3
12	040318	BRACKET	ROCKER SHAFT	2
13	040317	BRACKET	ROCKER SHAFT	1
14	040313	SHAFT	ROCKER INCLUDING PLUGS	1
15	040319	BRACKET	ROCKER SHAFT	1
16		PLUG	ROCKER SHAFT END	2
17	032672	CAP	VALVE STEM	8
18	040307	COTTER	VALVE	16
19	032669	SEAT	VALVE SPRING UPPER	8
20	033660	SEAL	VALVE STEM OIL INTAKE	4
21	040306	SPRING	VALVE OUTER	8
22	040308	SPRING	VALVE INNER	8
23	032671	SEAT	VALVE SPRING LOWER	8
24	040305	VALVE	INTAKE	4
25	040309	VALVE	EXHAUST	4
26	040320	PUSHROD		8
27	030966	TAPPET		8
28	040322	HUB	IDLER GEAR	1
29	032810	BUSHING	IDLER GEAR	1
30	040321	GEAR	IDLER INCLUDING BUSHING	1
31	040323	PLATE	IDLER GEAR	1
32	033647	CAPSCREW	M 8 X 50 JIS-FLANGE	2
33	033647	CAPSCREW	M 8 X 50 JIS-FLANGE	1
35	031014	PLATE	LOCK CAMSHAFT GEAR	1
36	031015	GEAR	FRICTION	1
37	040324	GEAR	CAMSHAFT	1
38	033641	CAPSCREW	M 8 X 16 JIS-FLANGE	2
39	024446	PLATE	CAMSHAFT RETAINING	1
40	024445	KEY	WOODRUFF	1
41	040325	CAMSHAFT		1
42	040238	SEAL	VALVE STEM OIL EXHAUST	4

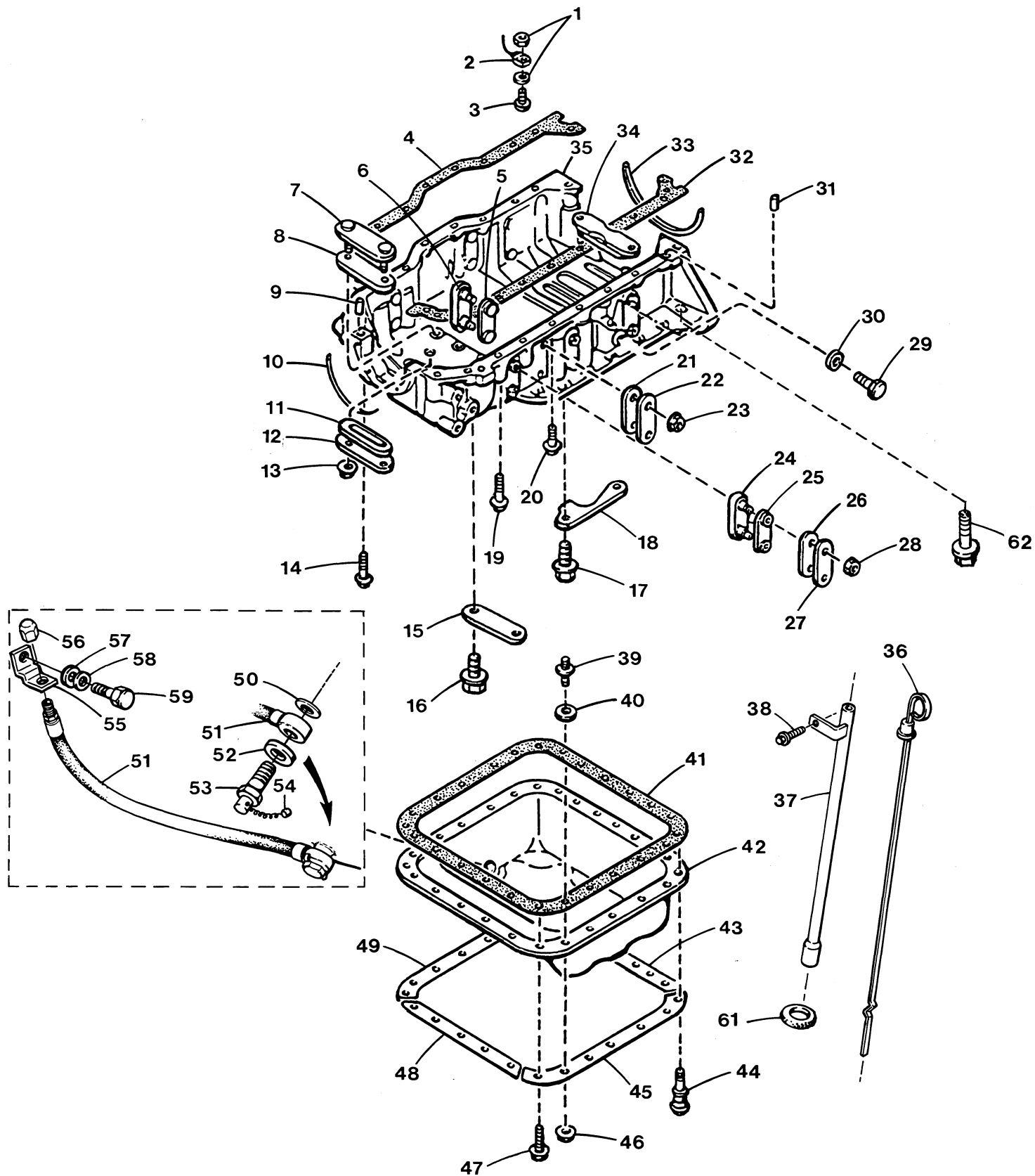
WESTERBEKE 90A - 32.0 BEDA - TIMING GEAR COVER



WESTERBEKE 90A - 32.0 BEDA - TIMING GEAR COVER

REF	PN	NAME	REMARKS	QUAN
1	040282	GASKET	BLOCK TO TIMING CASE	1
2	033644	CAPSCREW	M 8 X 35 JIS-FLANGE	
3	040280	CASE	TIMING	1
4		SPACER	24MM OD, 8.5MM ID, 4MM THICK	1
5	033648	CAPSCREW	M 8 X 55 JIS-FLANGE	
6	015831	STUD	M 8 X 32 DIN 939	1
7	033647	CAPSCREW	M 8 X 50 JIS-FLANGE	
8	033654	CAPSCREW	M 8 X 20 JIS-FLANGE	
9	033676	DOWEL	TUBULAR 12MM DIA X 12MM LONG	2
11	041417	DOWEL	6MM X 14MM DIN 6325	
12	040285	PLATE	TO U1048	1
13	040288	PLATE		1
14	040291	SEAL		1
15	040290	GASKET	TIMING COVER	1
16-1	040289	COVER	TIMING INCL PLATES AND SEALS TO U1048	1
16-2	042105	COVER	TIMING INCL PLATES AND SEALS FROM U1049	1
17	033644	CAPSCREW	M 8 X 35 JIS-FLANGE	2
18	040292	PLATE		1
19	036211	NUT	M 6 JIS-FLANGE	6
20	033668	NUT	M 8 JIS-FLANGE	1
21	033649	CAPSCREW	M 6 X 65 JIS-FLANGE	2
22	041426	CAPSCREW	M 6 X 30 JIS-FLANGE	1
23	040286	SEAL	TO U1048	1
24	040287	PLATE	TO U1048	1
25	036211	NUT	M 6 JIS-FLANGE TO U1048	6
26	040281	SEAL	OIL	1
27	036211	NUT	M 6 JIS-FLANGE	6
28	040284	PLATE		1
29-1	041427	CAPSCREW	M 8 X 70 JIS-FLANGE	3
29-2	042106	CAPSCREW	M 8 X 75 JIS-FLANGE	1
30	034477	CAPSCREW	M 8 X 60 JIS-FLANGE	6
31	033654	CAPSCREW	M 8 X 20 JIS-FLANGE	1
32	040283	SEAL		1
33	040288	PLATE		1
34	040131	GASKET		1
35-1	040028	NECK	OIL FILL INCLUDING CAP	1
35-2	046410	COVER	WHEN NECK NOT INSTALLED	1
36	038980	CAP	OIL FILL	1
37-1	020628	CAPSCREW	M 6 X 25 DIN 933	2
37-2	031810	CAPSCREW	M 6 X 14 DIN 933 COVER 46410	2
38	031783	LOCKWASHER	M 6 DIN 127	2
39	031784	WASHER	M 6 DIN 125	2

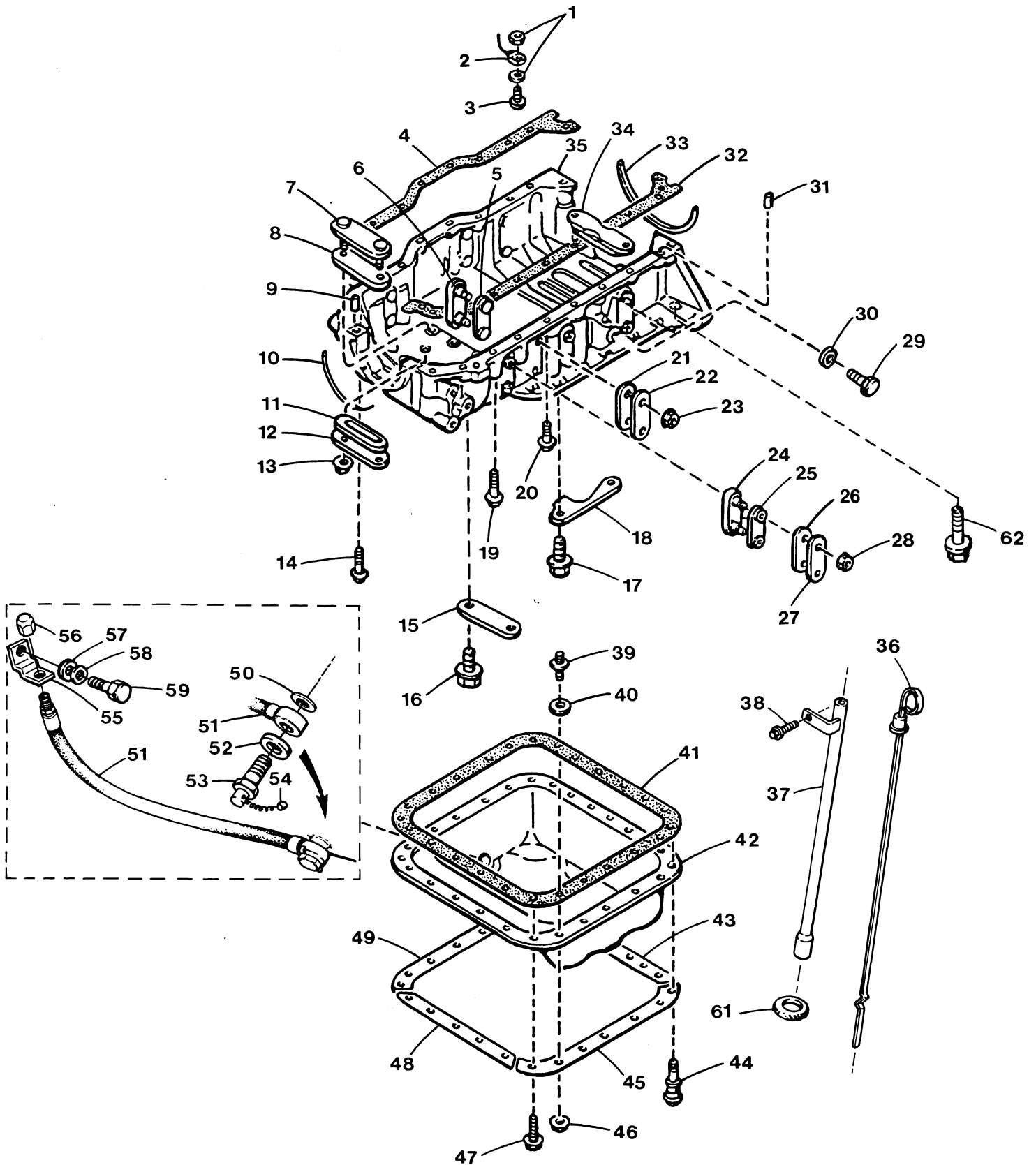
WESTERBEKE 90A - 32.0 BEDA - LUBE OIL SUMP



WESTERBEKE 90A - 32.0 BEDA - LUBE OIL SUMP

REF	PN	NAME	REMARKS	QUAN
1	032654	WASHER	OIL JET	8
2	040293	JET	OIL	4
3	032655	VALVE	OIL JET	4
4	041440	GASKET	BLOCK TO LOWER BLOCK RIGHT	1
5	040263	SEAL		6
6	040261	SEAL		6
7	040257	PLATE		1
8	040259	SEAL		1
9	041418	DOWEL	8MM X 18MM DIN 6325	2
10	041441	GASKET	BLOCK TO LOWER BLOCK FRONT	1
11	040260	SEAL		1
12	040258	PLATE		1
13	036211	NUT	M 6 JIS-FLANGE	2
14	041434	CAPSCREW	M 8 X 130 JIS-FLANGE	3
15	040358	BRACKET	OIL STRAINER	1
16	033654	CAPSCREW	M 8 X 20 JIS-FLANGE	2
17	041433	CAPSCREW	M 8 X 110 JIS-FLANGE	7
18	040357	BRACKET	OIL LINE	1
19	033647	CAPSCREW	M 8 X 50 JIS-FLANGE	4
20	033642	CAPSCREW	M 8 X 25 JIS-FLANGE	8
21	040264	SEAL		6
22	040262	PLATE		6
23	036211	NUT	M 6 JIS-FLANGE	12
24	040266	PLATE		2
25	040268	SEAL		2
26	040269	SEAL		2
27	040267	PLATE		2
28	036211	NUT	M 6 JIS-FLANGE	4
29	032905	PLUG		1
30	024498	WASHER	M12	1
31	033656	DOWEL	TUBULAR	2
32	041439	GASKET	BLOCK TO LOWER BLOCK LEFT	1
33	041442	GASKET	BLOCK TO LOWER BLOCK REAR	1
34	040265	SEAL		2
35-1	040256	BLOCK	LOWER TO U1050	1
35-2	042101	BLOCK	LOWER FROM U1051	1

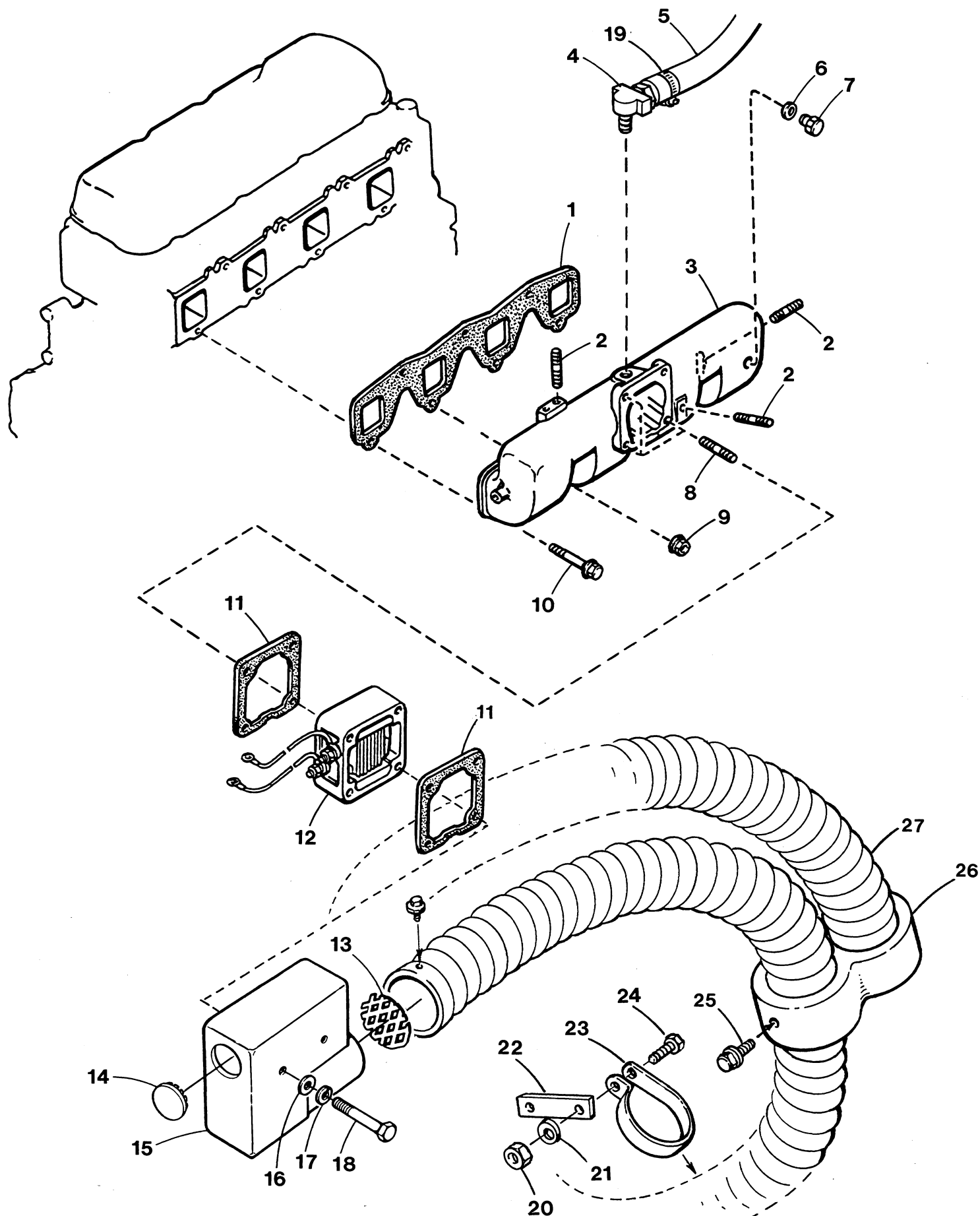
WESTERBEKE 90A - 32.0 BEDA - LUBE OIL SUMP



WESTERBEKE 90A - 32.0 BEDA - LUBE OIL SUMP

REF	PN	NAME	REMARKS	QUAN
36	040042	DIPSTICK		1
37	040041	TUBE	DIPSTICK	1
38-1	017012	CAPSCREW	M 6 X 16 DIN 933	1
38-2	031783	LOCKWASHER	M 6 DIN 127	1
38-3	031753	WASHER	1/4 FLAT	1
39-1	040271	STUD	SUMP TO U1006	6
39-2	042102	STUD	SUMP FROM U1007	6
40	040381	O-RING		6
41-1	040276	GASKET	SUMP TO U1006	2
41-2	040276	GASKET	SUMP FROM U1007	1
42	040270	SUMP	LUBE OIL	1
43	040273	STIFFENER	SUMP TO U1006	1
44-1	040278	BOLT	SUMP TO U1006	2
44-2	042104	BOLT	SUMP FROM U1007	2
45	040274	STIFFENER	SUMP TO U1006	1
46	033668	NUT	M 8 JIS-FLANGE	6
47-1	040277	BOLT	SUMP TO U1006	15
47-2	042103	BOLT	SUMP FROM U1007	15
48	040272	STIFFENER	SUMP TO U1006	1
49	040275	STIFFENER	SUMP TO U1006	1
50	030291	WASHER	BANJO M14	1
51	030848	HOSE	SUMP DRAIN	1
52	036493	WASHER	SUMP DRAIN BANJO	1
53	036821	BOLT	BANJO-SUMP DRAIN	1
54	037393	SEAL	LEAD WIRE	1
55	024922	BRACKET	SUMP DRAIN HOSE	1
56	024905	CAP	SUMP DRAIN HOSE	1
57	031789	WASHER	M10 DIN 125	1
58	019262	LOCKWASHER	M10 DIN 127	1
59	031083	CAPSCREW	M10 X 1.25 X 30 JIS	1
60	024523	PLUG	1/8NPT SOCKET	1
61	040382	O-RING	DIPSTICK TUBE	1
62		CAPSCREW	M 8 X 125 JIS-FLANGE	2
63	041448	SEAL SET	LOWER BLOCK PLATES TO U1050	1

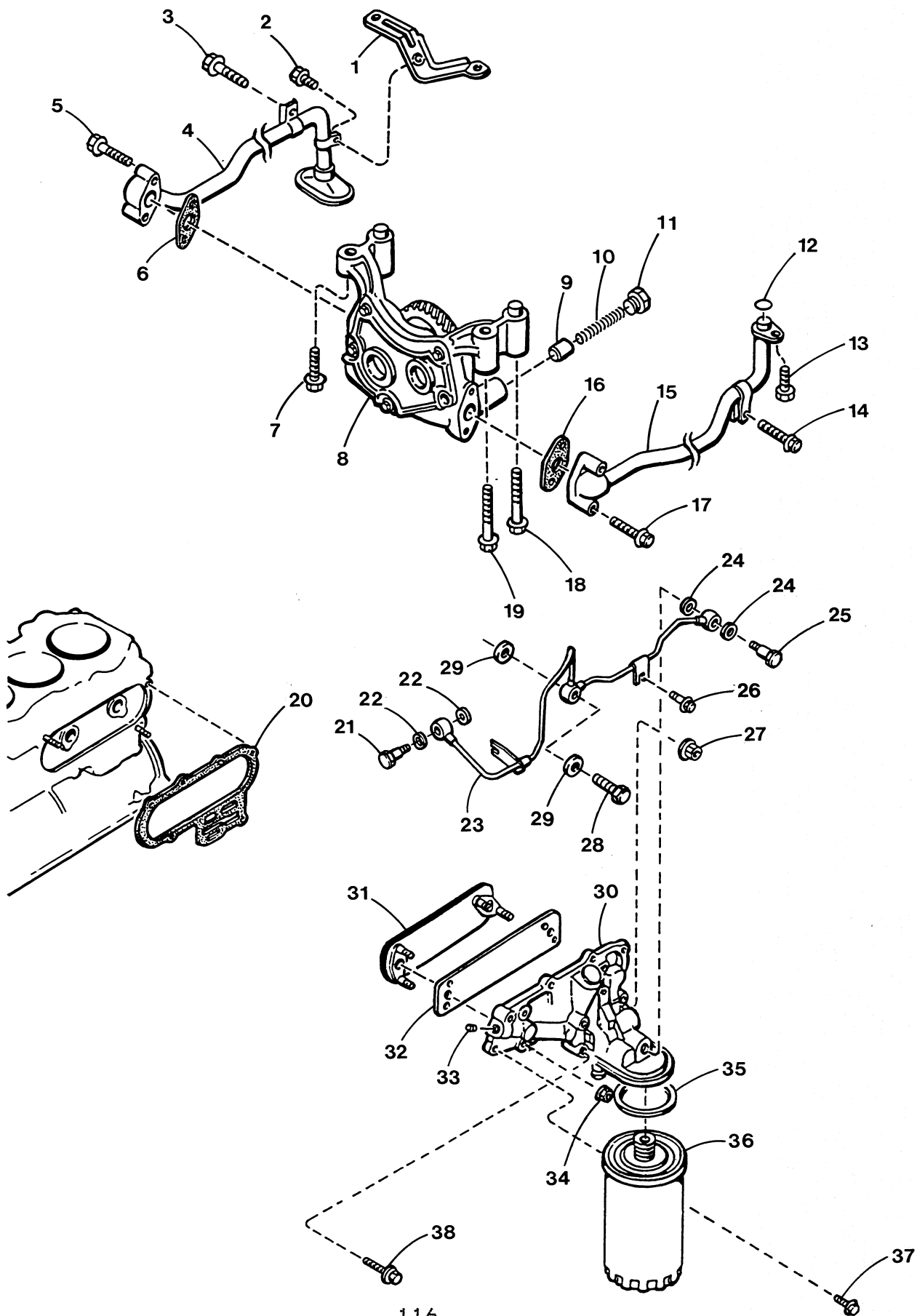
WESTERBEKE 90A - 32.0 BEDA - INTAKE MANIFOLD



WESTERBEKE 90A - 32.0 BEDA - INTAKE MANIFOLD

REF	PN	NAME	REMARKS	QUAN
1	040327	GASKET	INTAKE MANIFOLD TO HEAD	1
2	038909	STUD	FUEL LINE CLAMPS M 5	4
3	040231	MANIFOLD	INTAKE	1
4	299814	ELBOW	MALE 3/8NPT TO 5/8 HOSE	1
5	200429	HOSE	BREATHER	1
6	011944	WASHER	BANJO M10	1
7	041420	PLUG	M10 X 1.25	1
8	041435	STUD	M 8 X 60 DIN 939	3
9	033668	NUT	M 8 JIS-FLANGE	2
10	033642	CAPSCREW	M 8 X 25 JIS-FLANGE	5
11	040349	GASKET	INTAKE HEATER	2
12-1	040368	HEATER	AIR INTAKE 12 VDC	1
12-2	041063	HEATER	AIR INTAKE 24 VDC	1
13	030167	SCREEN	AIR INTAKE SILENCER PROPULSION	1
14	031145	PLUG	BUTTON 1-3/8	1
15-1	042582	SILENCER	AIR INTAKE INCL REF 14 GENSET	1
15-2	042146	SILENCER	AIR INTAKE INCL REF 13-14 PROPULSION	1
16	031787	WASHER	M 8 DIN 125	4
17	031786	LOCKWASHER	M 8 DIN 127	4
18	036729	CAPSCREW	M 8 X 120 DIN 931	4
19	301083	CLAMP	HOSE 10	1
20	018242	NUT	M 8 DIN 934	1
21	031786	LOCKWASHER	M 8 DIN 127	1
22	042613	BRACKET	SUPPORT TUNED HOSE	1
23	039949	CLAMP	SUPPORT HOSE	1
24	013630	CAPSCREW	M 8 X 25 DIN 933	1
25	042916	SCREW	10-16 X 3/4 TAPPING	1
26	042614	BRACKET	TUNED HOSE GENSET	1
27	042592	HOSE	1-3/4 ID WIRE INSERTED - INCHES REQUIRED	73

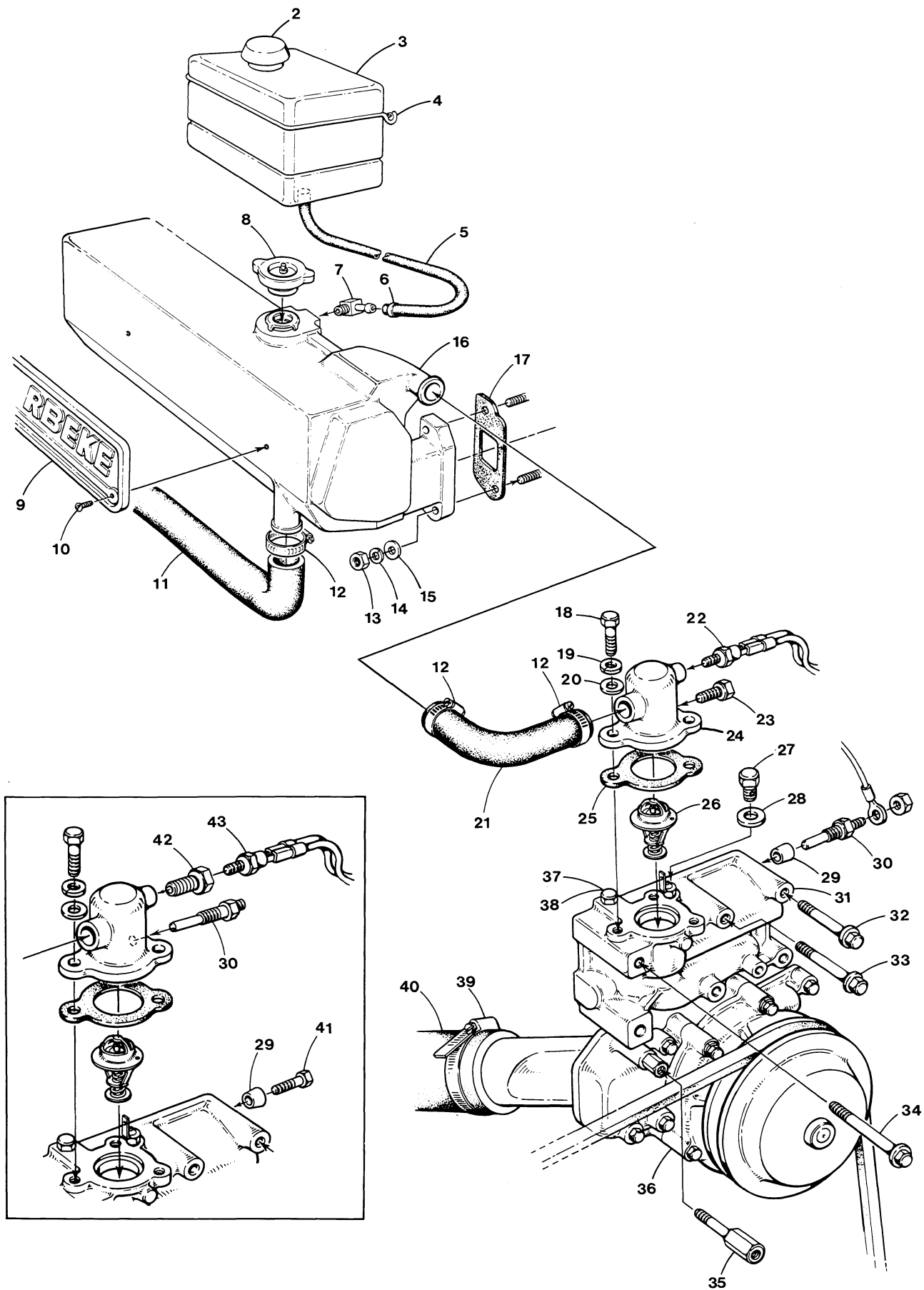
WESTERBEKE 90A - 32.0 BEDA - LUBE OIL FILTER AND PUMP



WESTERBEKE 90A - 32.0 BEDA - LUBE OIL FILTER AND PUMP

REF	PN	NAME	REMARKS	QUAN
1	040356	BRACKET	OIL STRAINER	1
2	041425	CAPSCREW	M 8 X 20 JIS-FLANGE DOG POINT	1
3	041424	CAPSCREW	M 6 X 25 JIS-FLANGE DOG POINT	1
4	040354	STRAINER	OIL PUMP	1
5	041426	CAPSCREW	M 6 X 30 JIS-FLANGE	2
6	040355	GASKET	STRAINER TO PUMP	1
7	033622	CAPSCREW	M10 X 1.25 X 35 JIS-FLANGE	1
8	040350	PUMP	LUBE OIL INCLUDING REF 9, 10, 11	1
9	024470	PLUNGER	OIL RELIEF VALVE	1
10	032702	SPRING	OIL RELIEF VALVE	1
11	040351	PLUG	OIL RELIEF VALVE	1
12	032907	O-RING		1
13	033654	CAPSCREW	M 8 X 20 JIS-FLANGE	1
14	041424	CAPSCREW	M 6 X 25 JIS-FLANGE DOG POINT	1
15	040352	LINE	OIL PUMP TO BLOCK	1
16	040353	GASKET	OIL PUMP TO LINE	1
17	041426	CAPSCREW	M 6 X 30 JIS-FLANGE	2
18	041431	CAPSCREW	M10 X 1.25 X 60 JIS-FLANGE	2
19	041430	CAPSCREW	M10 X 1.25 X 50 JIS-FLANGE	1
20	040361	GASKET	OIL FILTER HOUSING TO BLOCK	1
21	041419	BOLT	BANJO OIL LINE TO TIMING COVER	1
22	034448	WASHER	BANJO M10	2
23	040360	LINE	OIL	1
24	034449	WASHER	BANJO M14	2
25	024984	BOLT	BANJO	1
26	034565	CAPSCREW	M 6 X 10 JIS-FLANGE	1
27	033668	NUT	M 8 JIS-FLANGE	2
28	024503	BOLT	BANJO OIL LINE TO INJECTION PUMP	1
29	034448	WASHER	BANJO M10	2
30	040380	HOUSING	OIL FILTER	1
31	040367	COOLER	LUBE OIL	1
32	040359	GASKET	OIL COOLER TO FILTER HOUSING	1
33	034171	PLUG	SOCKET HEAD	1
34	041438	NUT	M10 X 1.25 JIS-FLANGE	4
35		GASKET	INCLUDED WITH OIL FILTER	1
36	040154	FILTER	LUBE OIL INCLUDING GASKET	1
37	033654	CAPSCREW	M 8 X 20 JIS-FLANGE	5
38	033645	CAPSCREW	M 8 X 40 JIS-FLANGE	3

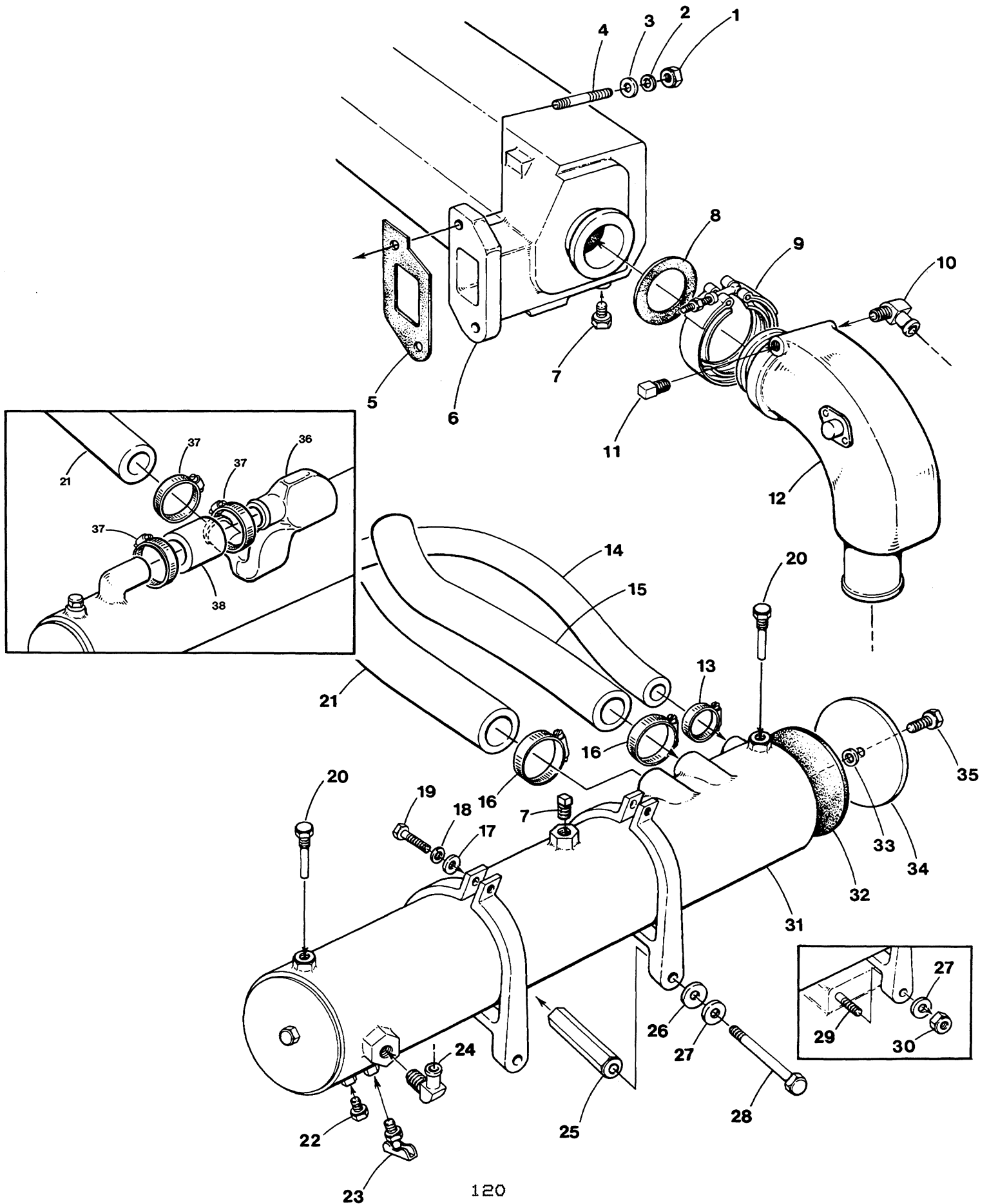
WESTERBEKE 90A - 32.0 BEDA - FRESH WATER COOLING SYSTEM - FRONT



WESTERBEKE 90A - 32.0 BEDA - FRESH WATER COOLING SYSTEM - FRONT

REF	PN	NAME	REMARKS	QUAN
1	024977	TANK KIT	COOLANT RECOVERY INCL REF 2 THRU 6	1
2	024858	CAP	COOLANT RECOVERY TANK	1
3	024704	TANK	COOLANT RECOVERY	1
4	024786	STRAP	COOLANT RECOVERY TANK MOUNTING	1
5	024637	TUBING	MANIFOLD TO TANK - INCHES REQUIRED	72
6	024906	CLAMP	HOSE	2
7	024907	ELBOW	MANIFOLD TO RECOVERY TANK HOSE	1
8	024306	CAP	PRESSURE	1
9	035411	NAMEPLATE		1
10	031935	SCREW	8-32 X 1/4 SS OVAL HEAD	2
11	040163	HOSE	MANIFOLD TO EXCHANGER	1
12	038193	CLAMP	HOSE 28	3
13	018242	NUT	M 8 DIN 934	8
14	031786	LOCKWASHER	M 8 DIN 127	8
15	031787	WASHER	M 8 DIN 125	8
16	037305	MANIFOLD	EXHAUST INCLUDING CAP	1
17	037745	GASKET	EXHAUST MANIFOLD TO HEAD	4
18	018804	CAPSCREW	M 6 X 20 DIN 933	3
19	031783	LOCKWASHER	M 6 DIN 127	3
20	031784	WASHER	M 6 DIN 125	3
21	038233	HOSE	THERMOSTAT TO MANIFOLD	1
22	039550	SWITCH	WATER TEMPERATURE-GENSET	1
23-1	019369	PLUG	1/8NPT HEX HEAD BRASS	1
23-2	039317	SWITCH	WATER TEMPERATURE-MED COACH GENSET ALARM	1
24	039652	HOUSING	THERMOSTAT	1
25	039651	GASKET	THERMOSTAT	1
26	024690	THERMOSTAT		1
27	022205	PLUG	M16 X 1.5 DIN 910	1
28	034178	WASHER	M16	1
29	024672	BUSHING	HOUSING TO 1/8NPT	1
30	035109	SENDER	WATER TEMPERATURE	1
31	041198	HOUSING	LOWER THERMOSTAT	1
32	041432	CAPSCREW	M10 X 1.25 X 70 JIS-FLANGE	2
33	041427	CAPSCREW	M 8 X 70 JIS-FLANGE	2
34	041428	CAPSCREW	M 8 X 90 JIS-FLANGE	2
35	040026	STANDOFF	ADJUSTING STRAP RADIATOR GENSET	1
36		PUMP	FRESH WATER - REFER TO SEPARATE PAGE	1
37	034567	PLUG	M 8 X 0.75	1
38	030289	WASHER	M 8	1
39	021122	CLAMP	HOSE 24	2
40	040162	HOSE	EXCHANGER TO FRESH WATER PUMP	1
41	019369	PLUG	1/8NPT HEX HEAD BRASS-PROPULSION	1
42	037453	BUSHING	1/4NPT TO 1/8NPT-PROPULSION	1
43	030125	SWITCH	WATER TEMPERATURE-PROPULSION	1

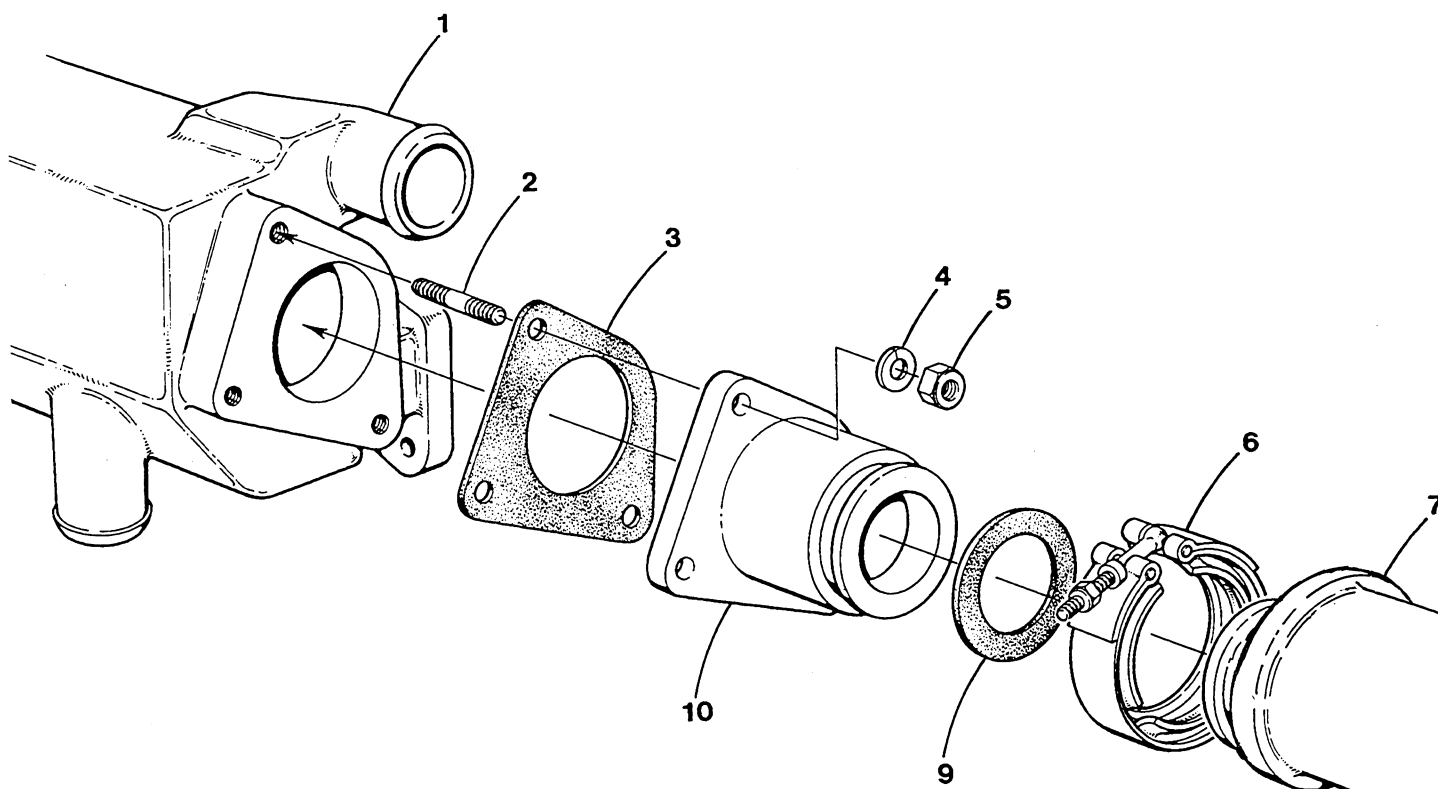
WESTERBEKE 90A - 32.0 BEDA - COOLING SYSTEM - REAR



WESTERBEKE 90A - 32.0 BEDA - COOLING SYSTEM - REAR

REF	PN	NAME	REMARKS	QUAN
1	018242	NUT	M 8 DIN 934	8
2	031786	LOCKWASHER	M 8 DIN 127	8
3	031787	WASHER	M 8 DIN 125	8
4	015831	STUD	M 8 X 32 DIN 939	8
5	037745	GASKET	EXHAUST MANIFOLD TO HEAD	4
6	037305	MANIFOLD	EXHAUST INCLUDING CAP	1
7	035747	PLUG	1/2NPT BRASS SQUARE HEAD	2
8	038221	GASKET	EXHAUST ELBOW TO MANIFOLD	1
9	038153	CLAMP	EXHAUST ELBOW TO MANIFOLD	1
10	036614	ELBOW	3/4NPT TO 1" HOSE	1
11	036849	PLUG	3/4 NPT BRASS SQUARE HEAD	1
12-1	039334	ELBOW KIT	70 DEG WATER INJECTED INCL REF 8-12	1
12-2	044876	ELBOW KIT	45 DEG WATER INJECTED INCL REF 8-12	1
13	011405	CLAMP	HOSE 16	2
14-1	011779	HOSE	1" ID WIRE INSERTED - INCHES REQD GENSET	23
14-2	011779	HOSE	1" ID WIRE INSERTED - INCHES REQD PROP	32
15	040163	HOSE	MANIFOLD TO EXCHANGER	1
16	038193	CLAMP	HOSE 28	2
17	031753	WASHER	1/4 FLAT	2
18	031752	LOCKWASHER	1/4	2
19	031506	CAPSCREW	1/4NC X 1-1/4	2
20	011885	ZINC		2
21	040162	HOSE	EXCHANGER TO FRESH WATER PUMP	1
22	019369	PLUG	1/8NPT HEX HEAD BRASS	1
23	011471	PETCOCK	1/8NPT	1
24-1	036614	ELBOW	3/4NPT TO 1" HOSE GENSET	1
24-2	036622	NIPPLE	3/4NPT TO 1" HOSE PROPULSION	1
25	039076	SPACER	EXCHANGER MOUNT-GENSET	2
26	031787	WASHER	M 8 DIN 125	2
27	031786	LOCKWASHER	M 8 DIN 127	2
28	013619	CAPSCREW	M 8 X 30 DIN 933 GENSET	2
29	015830	STUD	M 8 X 25 DIN 939 PROPULSION	2
30	018242	NUT	M 8 DIN 934 PROPULSION	2
31-1	040164	EXCHANGER	HEAT GENSET	1
31-2	041164	EXCHANGER	HEAT CU-NI GENSET	1
31-3	042209	EXCHANGER	HEAT PROPULSION	1
32-1	022851	GASKET	EXCHANGER END COVER GENSET	2
32-2	033300	GASKET	EXCHANGER END COVER PROPULSION	2
33	019321	O-RING	EXCHANGER END COVER	2
34-1	022850	COVER	EXCHANGER END GENSET	2
34-2	033299	COVER	EXCHANGER END PROPULSION	2
35	022852	CAPSCREW	3/8NC X 1/2 BRASS	2
36	041778	ELBOW	HOSE CONNECTOR PROPULSION	1
37	038193	CLAMP	HOSE 28	2
38	039919	HOSE	EXCHANGER TO ELBOW	1

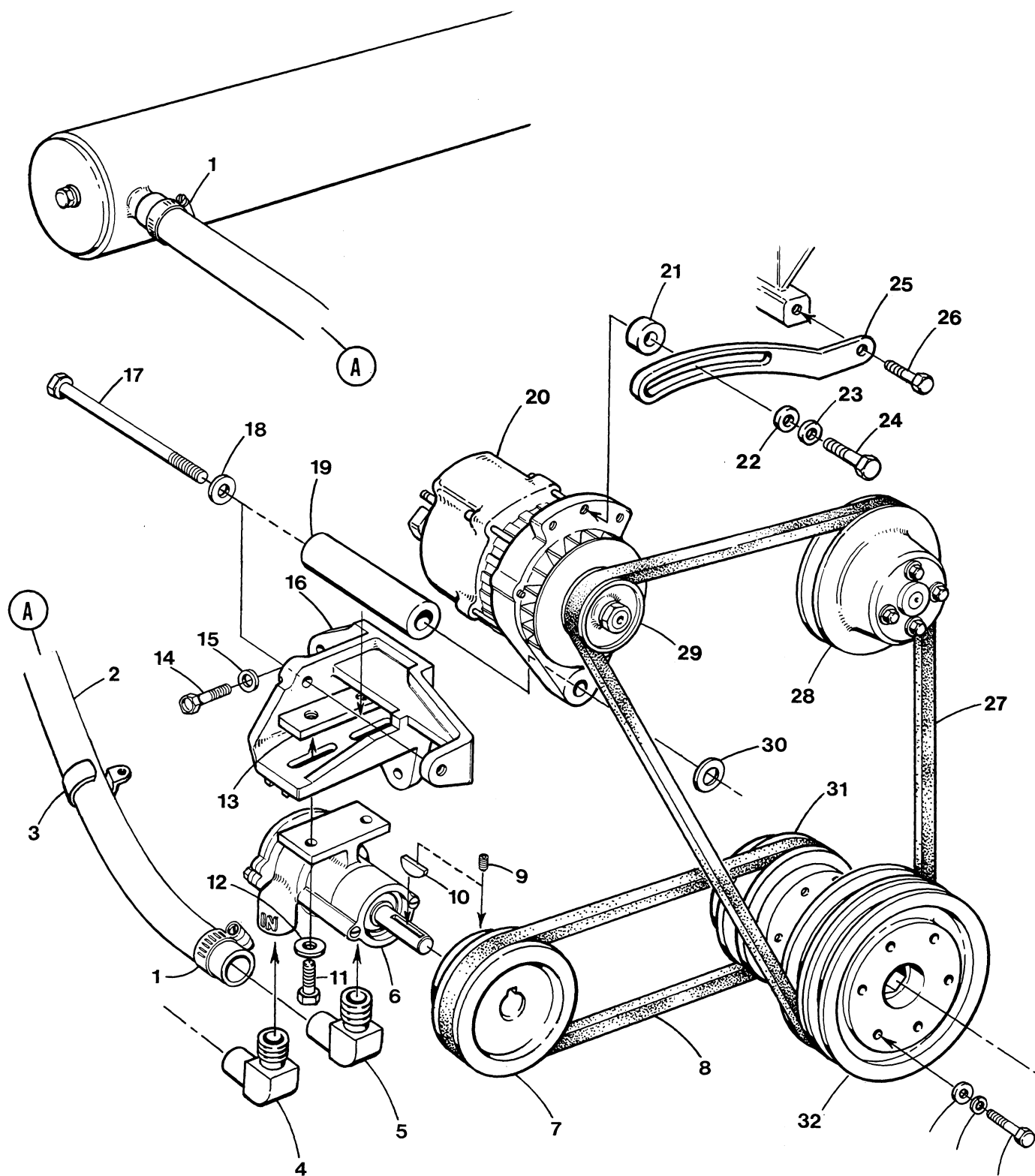
WESTERBEKE 90A FOUR - FRONT OPENING EXHAUST MANIFOLD



WESTERBEKE 90A FOUR - FRONT OPENING EXHAUST MANIFOLD

REF	PN	NAME	REMARKS	QUAN
1	039628	MANIFOLD	FRONT EXHAUST	1
2	037821	STUD	M10 X 30 DIN 939	3
3	037347	GASKET	MANIFOLD TO FLANGE	1
4	019262	LOCKWASHER	M10 DIN 127	3
5	015887	NUT	M10 DIN 934	3
6	038153	CLAMP	EXHAUST ELBOW TO FLANGE	1
7		ADAPTER	V-CLAMP TO PIPE THREAD	1
9	038221	GASKET	EXHAUST FLANGE TO ADAPTER	1
10	038862	FLANGE	MANIFOLD TO EXHAUST ADAPTER	1

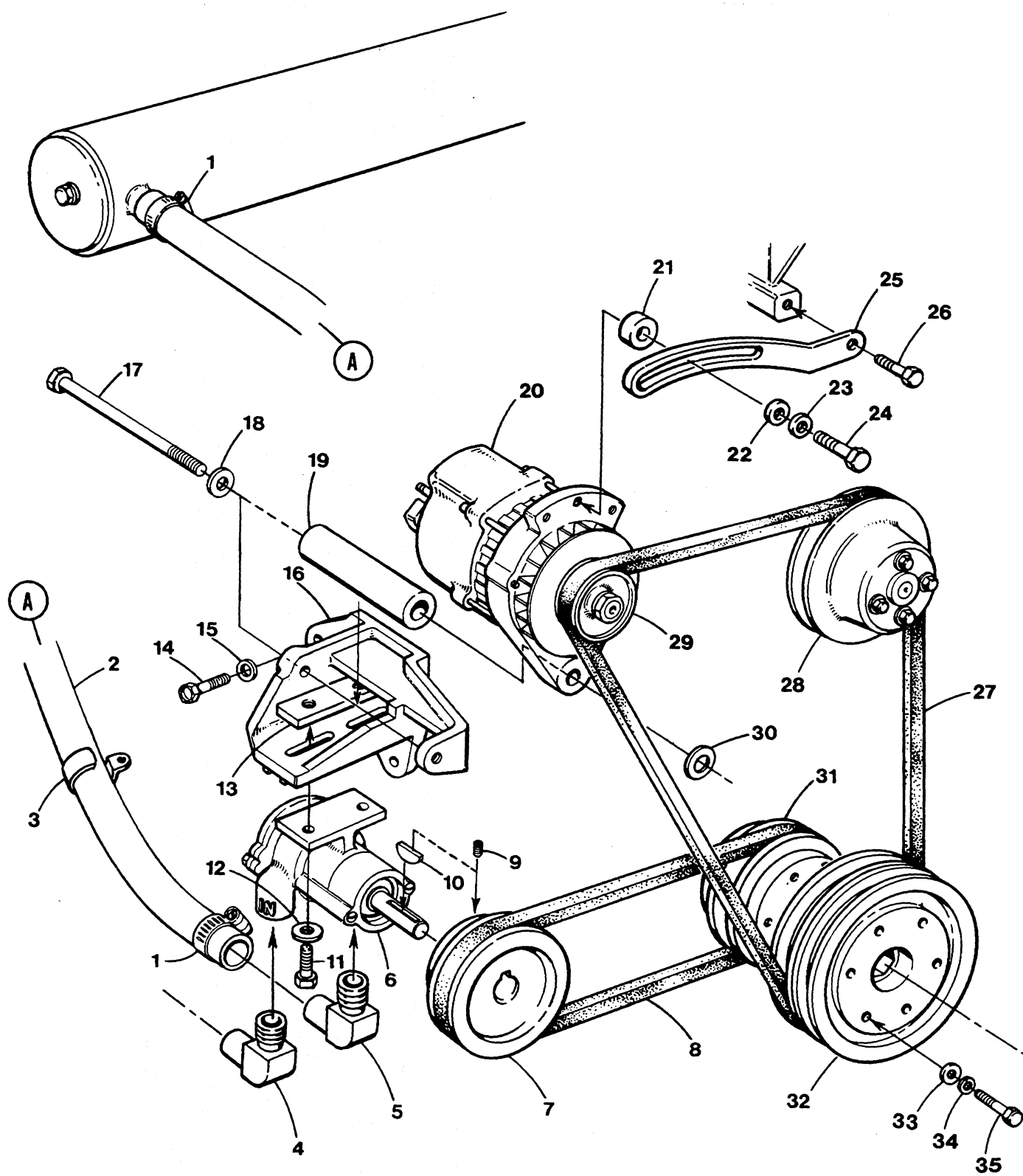
WESTERBEKE 90A - 32.0 BEDA - SEA WATER SYSTEM AND ALTERNATOR



WESTERBEKE 90A - 32.0 BEDA - SEA WATER SYSTEM AND ALTERNATOR

REF	PN	NAME	REMARKS	QUAN
1	011405	CLAMP	HOSE 16	2
2	011779	HOSE	1" ID WIRE INSERTED - INCHES REQUIRED	AR
3	013741	CLAMP	SUPPORT HOSE-PROPULSION	1
4	036614	ELBOW	3/4NPT TO 1" HOSE	1
5-1	036622	NIPPLE	3/4NPT TO 1" HOSE-PROPULSION	1
5-2	036614	ELBOW	3/4NPT TO 1" HOSE-GENSET	1
6	038445	PUMP	SEA WATER	1
7-1	011371	PULLEY	SEA WATER PUMP DRIVE-PROPULSION	1
7-2	038865	PULLEY	SEA WATER PUMP DRIVE-GENSET	1
8-1	013810	BELT	SEA WATER PUMP-PROPULSION	1
8-2	031152	BELT	SEA WATER PUMP-GENSET	1
9	011357	SETSCREW	PULLEY RETAINING	1
10	022392	KEY	SEA WATER PUMP SHAFT TO PULLEY	1
11	031631	CAPSCREW	3/8NF X 1-1/4	2
12-1	031764	LOCKWASHER	3/8	2
12-2	031765	WASHER	3/8 FLAT	4
13	038435	PLATE	SEA WATER PUMP ADJUSTING	1
14	031083	CAPSCREW	M10 X 1.25 X 30 JIS	3
15	019262	LOCKWASHER	M10 DIN 127	3
16-1	040400	BRACKET	SEA WATER PUMP & 50 AMP ALTERNATOR	1
16-2	041029	BRACKET	SEA WATER PUMP & 90-190 AMP ALTERNATOR	1
17-1	031724	CAPSCREW	1/2NC X 5-3/4 50 AMP ALTERNATOR	1
17-2	031624	CAPSCREW	3/8NC X 5-3/4 90-190 AMP ALTERNATOR	1
18-1	031776	LOCKWASHER	1/2 50 AMP ALTERNATOR	1
18-2	031764	LOCKWASHER	3/8 135-190 AMP ALTERNATOR	1
19-1	040193	SPACER	50 AMP ALTERNATOR	1
19-2	039889	SPACER	90 AMP ALTERNATOR	1
20- 1	039790	ALTERNATOR	50 AMP 12 VDC INCLUDING REGULATOR	1
20- 2	030735	ALTERNATOR	90 AMP 12 VDC	1
20- 3	038792	ALTERNATOR	135 AMP 12 VDC	1
20- 4	038891	REGULATOR	135 AMP ALTERNATOR	1
20- 5	038793	ALTERNATOR	160 AMP 12 VDC	1
20- 6	038794	ALTERNATOR	190 AMP 12 VDC	1
20- 7	038892	REGULATOR	160-190 AMP ALTERNATOR	1
20- 8	038530	ALTERNATOR	42 AMP 24 VDC WITH REGULATOR	1
20- 9	034922	ALTERNATOR	51 AMP 12 VDC UNGROUNDED	1
20-10	021566	ALTERNATOR	35 AMP 24 VDC UNGROUNDED	1
20-11	021611	REGULATOR	ALTERNATOR 21566	1
21	023413	SPACER		1
22	033381	WASHER	ADJUSTING STRAP	1
23	031758	LOCKWASHER	5/16	1
24	031555	CAPSCREW	5/16NC X 1	1
25	040030	STRAP	51 AMP ALTERNATOR ADJUSTING	1
26-1	018812	CAPSCREW	M 8 X 70 DIN 931	1
26-2	031786	LOCKWASHER	M 8 DIN 127	1

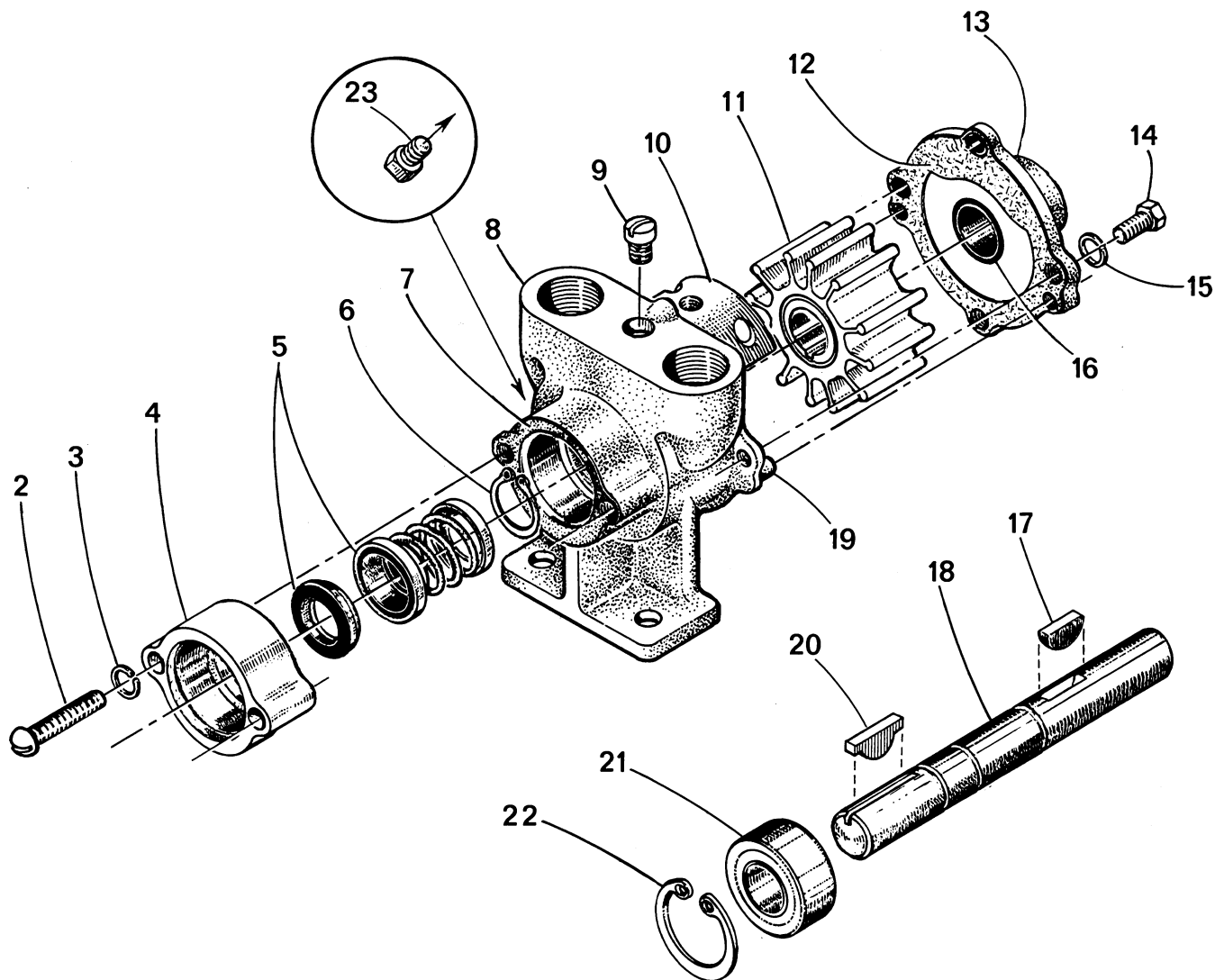
WESTERBEKE 90A - 32.0 BEDA - SEA WATER SYSTEM AND ALTERNATOR



WESTERBEKE 90A - 32.0 BEDA - SEA WATER SYSTEM AND ALTERNATOR

REF	PN	NAME	REMARKS	QUAN
27-1	039181	BELT	50 AMP ALTERNATOR & FRESH WATER PUMP	1
27-2		BELT	135 AMP ALTERNATOR & FRESH WATER PUMP	2
27-3	041048	BELT	160-190 AMP ALTERNATOR & FRESH WATER PMP	2
27-4	039181	BELT	90 AMP ALTERNATOR & FRESH WATER PUMP	2
27-5	039181	BELT	ALTERNATOR 21566-34922-38530	1
28-1	040365	PULLEY	FRESH WATER PUMP 1 GROOVE	1
28-2	041039	PULLEY	FRESH WATER PUMP 4 GROOVE	1
28-3	031110	PULLEY	FRESH WATER PUMP 2 GROOVE	1
29-1	045019	PULLEY	50 AMP ALTERNATOR	1
29-2	038440	PULLEY	135-190 AMP ALTERNATOR	1
29-3	031168	PULLEY	90 AMP ALTERNATOR	1
29-4	011548	PULLEY	ALTERNATOR 21566-34922-38530	1
30	030168	SPACER	51 AMP ALTERNATOR	3
31	040190	PULLEY	CRANKSHAFT 1 GROOVE	1
32	038786	PULLEY	CRANKSHAFT 2 GROOVE	1
33	031787	WASHER	M 8 DIN 125	6
34	031786	LOCKWASHER	M 8 DIN 127	6
35	013619	CAPSCREW	M 8 X 30 DIN 933	6

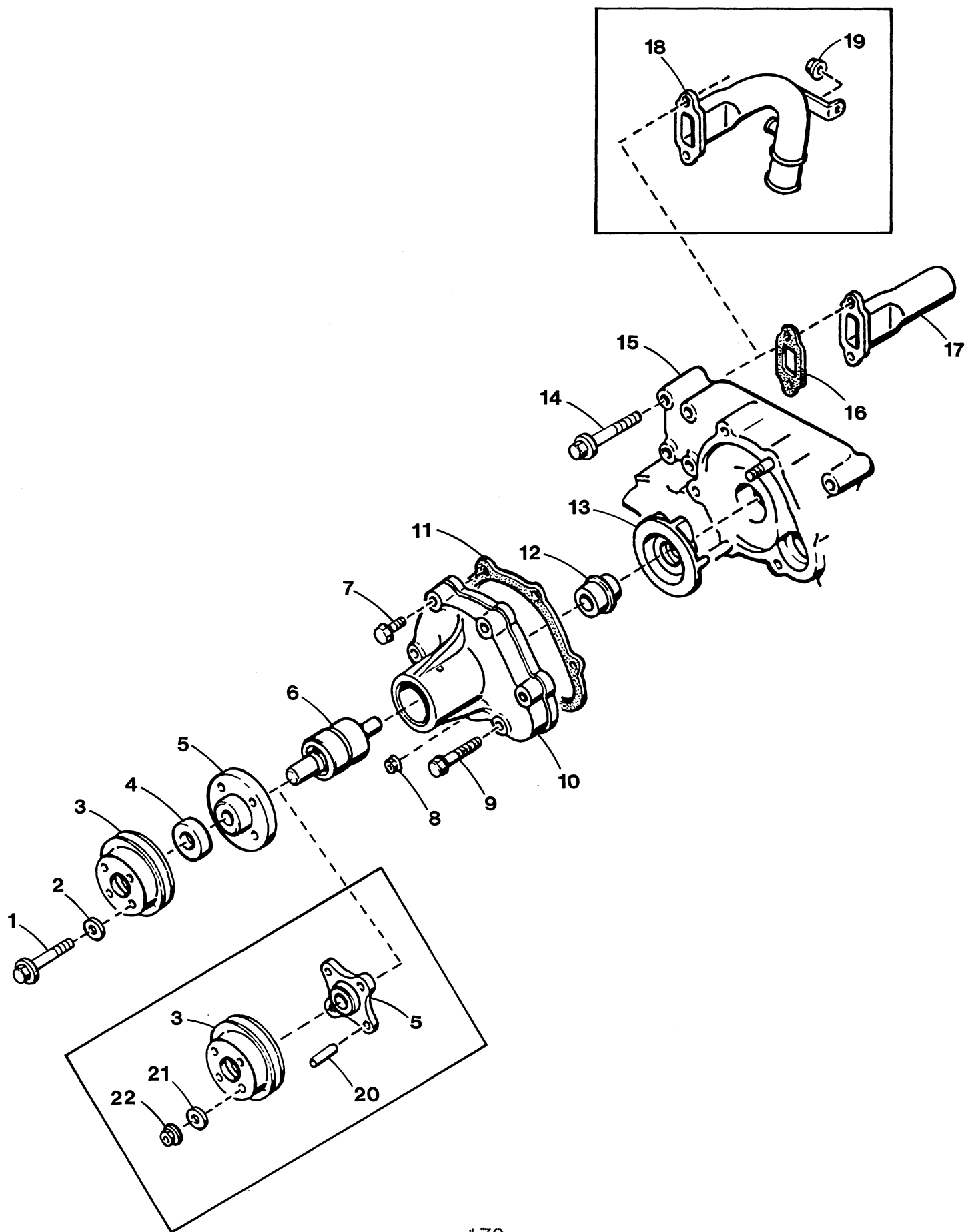
WESTERBEKE 90A - 32.0 BEDA - SEA WATER PUMP



WESTERBEKE 90A - 32.0 BEDA - SEA WATER PUMP

REF	PN	NAME	REMARKS	QUAN
1	038445	PUMP	SEA WATER	1
2	018147	SCREW	BEARING HOUSING TO PUMP	2
3	032183	LOCKWASHER		2
4	018180	HOUSING	BEARING	1
5	014774	SEAL	INCLUDING SEAT	1
6	018145	RING	RETAINING	3
7	018154	GASKET	BEARING HOUSING TO PUMP HOUSING	1
8	039867	HOUSING	PUMP BODY	1
9	018151	SCREW	PUMP HOUSING TO CAM	1
10	018152	CAM		1
11	011907	IMPELLER	INCLUDING GASKET	1
12	011419	GASKET	IMPELLER COVER	1
13	018153	COVER	IMPELLER INCLUDING BUSHING	1
14	018143	CAPSCREW		4
15	032183	LOCKWASHER		4
16	018149	BUSHING	SHAFT END	1
17	018148	KEY	IMPELLER TO SHAFT	1
18	018164	SHAFT		1
19	018142	DOWEL	COVER TO PUMP HOUSING	2
20	022392	KEY	SEA WATER PUMP SHAFT TO PULLEY	1
21	018144	BEARING		1
22	018146	RING	RETAINING	1
23	019369	PLUG	1/8NPT HEX HEAD BRASS	1
24	033329	KIT	PUMP REPAIR INCL 6, 7, 9, 10, 11, 12, 16, 21, 22	1

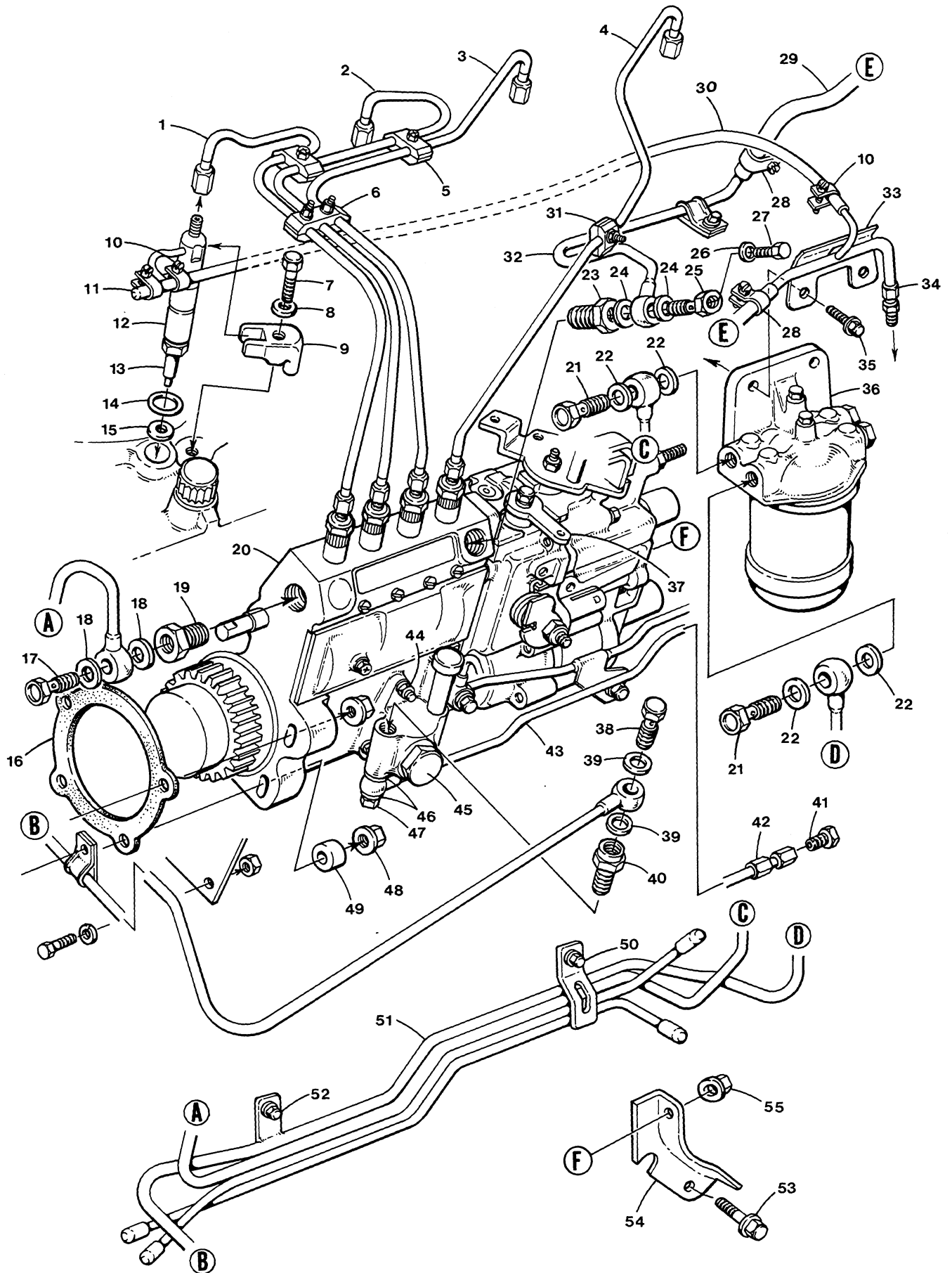
WESTERBEKE 90A - 32.0 BEDA - FRESH WATER PUMP



WESTERBEKE 90A - 32.0 BEDA - FRESH WATER PUMP

REF	PN	NAME	REMARKS	QUAN
1-1	013630	CAPSCREW	M 8 X 25 DIN 933	4
1-2	013619	CAPSCREW	M 8 X 30 DIN 933 PULLEY 41039	4
2	031786	LOCKWASHER	M 8 DIN 127	4
3-1	040365	PULLEY	1 GROOVE	1
3-2	031110	PULLEY	2 GROOVE	1
3-3	041039	PULLEY	4 GROOVE	1
4	040191	SPACER	FRESH WATER PUMP PULLEY	1
5		FLANGE	WATER PUMP PULLEY - SEE REF 10	1
6		SHAFT	SEE REF 10	1
7	033644	CAPSCREW	M 8 X 35 JIS-FLANGE	3
8	033668	NUT	M 8 JIS-FLANGE	1
9	041427	CAPSCREW	M 8 X 70 JIS-FLANGE	2
10	040362	HOUSING	BEARING ASSEMBLY INCL 5, 6, 10, 11, 12, 13	1
11	040363	GASKET	HOUSING TO TIMING CASE	1
12	040364	SEAL		1
13		IMPELLER	SEE REF 10	1
14	033648	CAPSCREW	M 8 X 55 JIS-FLANGE	2
15		CASE	TIMING	1
16	040200	GASKET	CONNECTOR	1
17	040194	CONNECTOR	WATER PUMP	1
18	040229	CONNECTOR	WATER PUMP RADIATOR GENSET	1
19	033668	NUT	M 8 JIS-FLANGE RADIATOR GENSET	1
20		STUD	M 8 X 18 DIN 939 RADIATOR GENSET	4
21		WASHER		4
22	033668	NUT	M 8 JIS-FLANGE RADIATOR GENSET	4

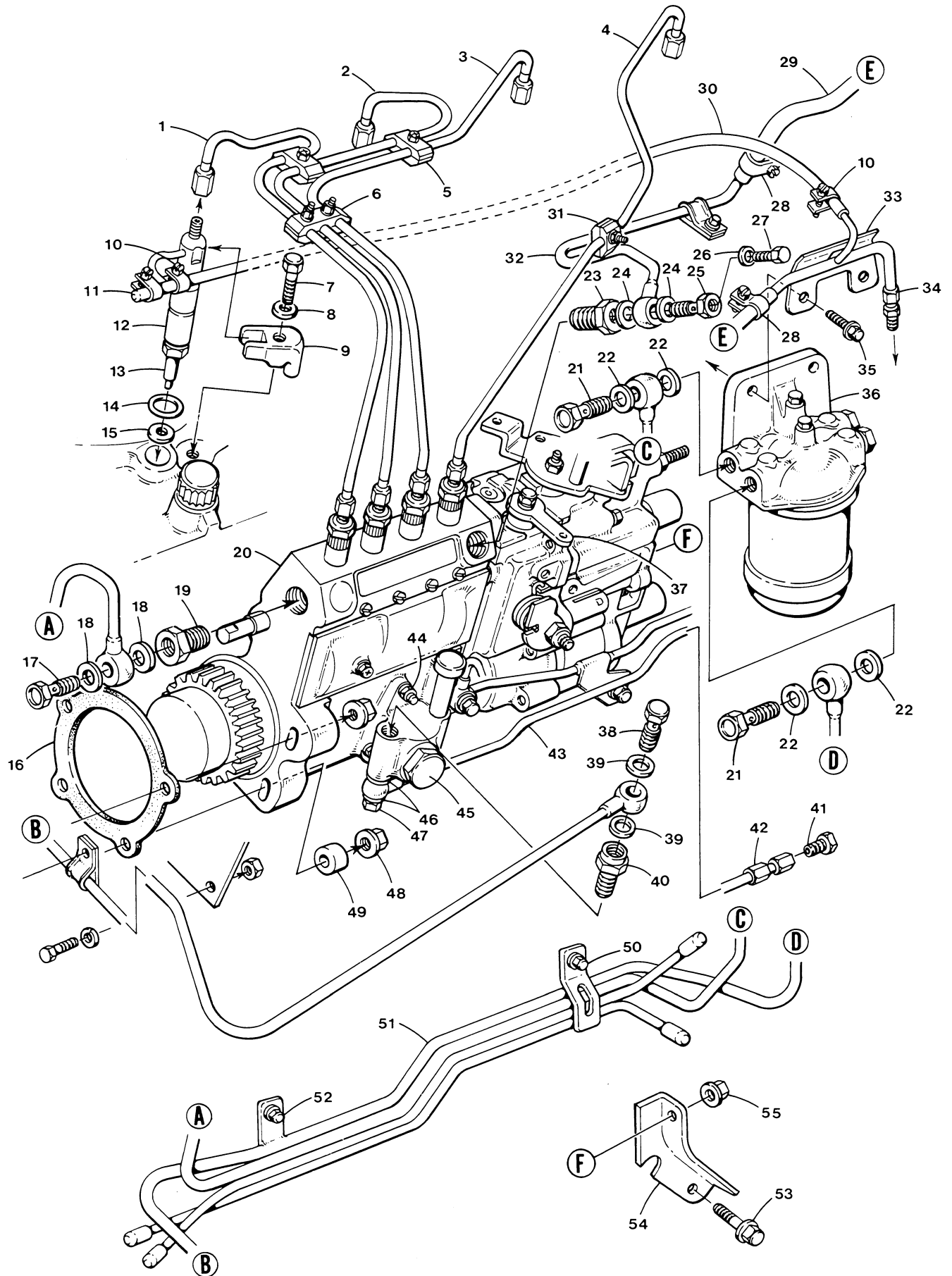
WESTERBEKE 90A - 32.0 BEDA - FUEL SYSTEM



WESTERBEKE 90A - 32.0 BEDA - FUEL SYSTEM

REF	PN	NAME	REMARKS	QUAN
1	040336	LINE	INJECTOR 1	1
2	040337	LINE	INJECTOR 2	1
3	040338	LINE	INJECTOR 3	1
4	040339	LINE	INJECTOR 4	1
5-1	038910	CLAMP	FUEL LINE	2
5-2	038911	CLAMP	FUEL LINE THREADED	2
5-3	038914	SCREW	M 5 X 25 DIN 84A PHILLIPS HEAD	2
6-1	040340	CLAMP	FUEL LINE	2
6-2	041437	NUT	M 5 JIS-FLANGE	2
7	041423	CAPSCREW	M10 X 1.25 X 45 JIS-FLANGE 8T	4
8	040335	WASHER	INJECTOR BRACKET	4
9	040334	BRACKET	INJECTOR	4
10	040384	CLAMP	HOSE MINI	9
11	040333	CAP	LEAK-OFF LINE	1
12	040330	INJECTOR	INCLUDING NOZZLE	4
13	040331	NOZZLE	INJECTOR	4
14	040383	O-RING	INJECTOR	4
15	040332	GASKET	INJECTOR	4
16	040343	GASKET	INJECTION PUMP MOUNTING	1
17	024984	BOLT	BANJO	1
18	034449	WASHER	BANJO M14	2
19	041414	ADAPTER	INJECTION PUMP INLET	1
20	040342	PUMP	FUEL INJECTION	1
21	024984	BOLT	BANJO	2
22	034449	WASHER	BANJO M14	4
23	041409	ADAPTER	INJECTION PUMP OUTLET	1
24	034449	WASHER	BANJO M14	2
25	041411	VALVE	INJECTION PUMP FUEL RETURN	1
26	034448	WASHER	BANJO M10	1
27		BOLT	PART OF REFERENCE 25	1
28	040389	CLAMP	HOSE MINI	2
29	039140	HOSE	FUEL 5/16ID - INCHES REQUIRED	10
30	036869	HOSE	FUEL 3/16ID - INCHES REQUIRED	20
31-1	040341	CLAMP	FUEL LINE	4
31-2	041437	NUT	M 5 JIS-FLANGE	2
32	041449	LINE	INJECTION PUMP FUEL RETURN	1
33	040346	LINE	FUEL RETURN	1
34	024633	UNION		1
35	041429	CAPSCREW	M10 X 1.25 X 30 JIS-FLANGE	2

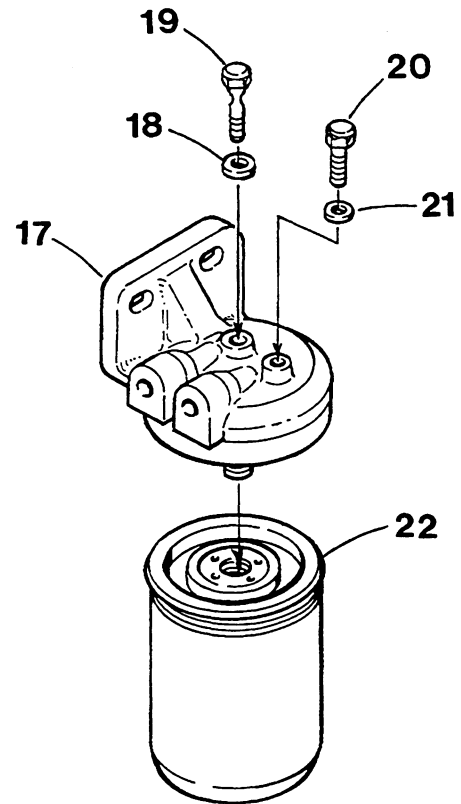
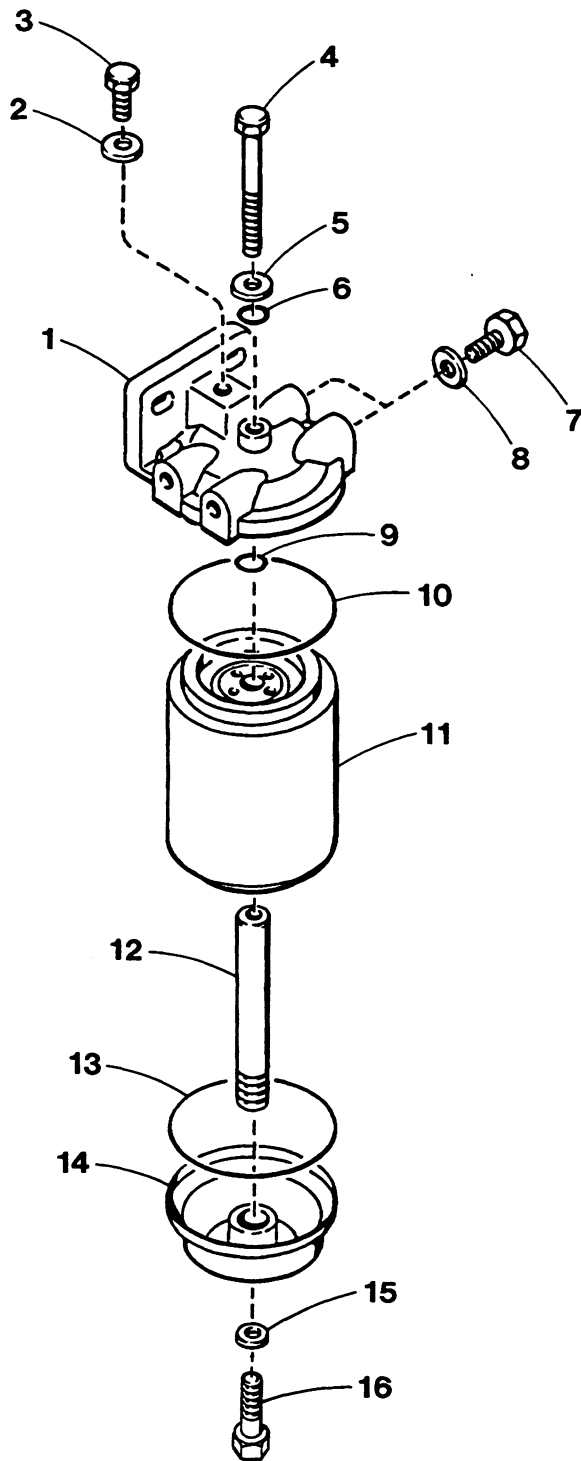
WESTERBEKE 90A - 32.0 BEDA - FUEL SYSTEM



WESTERBEKE 90A - 32.0 BEDA - FUEL SYSTEM

REF	PN	NAME	REMARKS	QUAN
36		FILTER	FUEL REFER TO NEXT PAGE	1
37		LEVER	REFER TO FUEL SHUT-OFF PAGE	1
38	024984	BOLT	BANJO	1
39	034449	WASHER	BANJO M14	2
40		ADAPTER	LIFT PUMP OUTLET - SEE REF 45	1
41	015289	CONNECTOR	MALE 1/8NPT TO 5/16IFL	1
42	024634	CONNECTOR	FEMALE 1/8NPT TO 5/16 COMPRESSION	1
43	040329	LINE	FUEL SUPPLY TO LIFT PUMP	1
44	036211	NUT	M 6 JIS-FLANGE	3
45-1	041443	PUMP	FUEL LIFT	1
45-2	041410	O-RING	FUEL LIFT PUMP MOUNTING	1
46	034449	WASHER	BANJO M14	2
47	041413	BOLT	BANJO	1
48	041438	NUT	M10 X 1.25 JIS-FLANGE	4
49	041412	SPACER		2
50	033654	CAPSCREW	M 8 X 20 JIS-FLANGE	1
51	040347	LINE	ASSEMBLY	1
52	034565	CAPSCREW	M 6 X 10 JIS-FLANGE	
53	033651	CAPSCREW	M10 X 1.25 X 20 JIS-FLANGE	1
54	040348	BRACKET	INJECTION PUMP SUPPORT	1
55		NUT		1

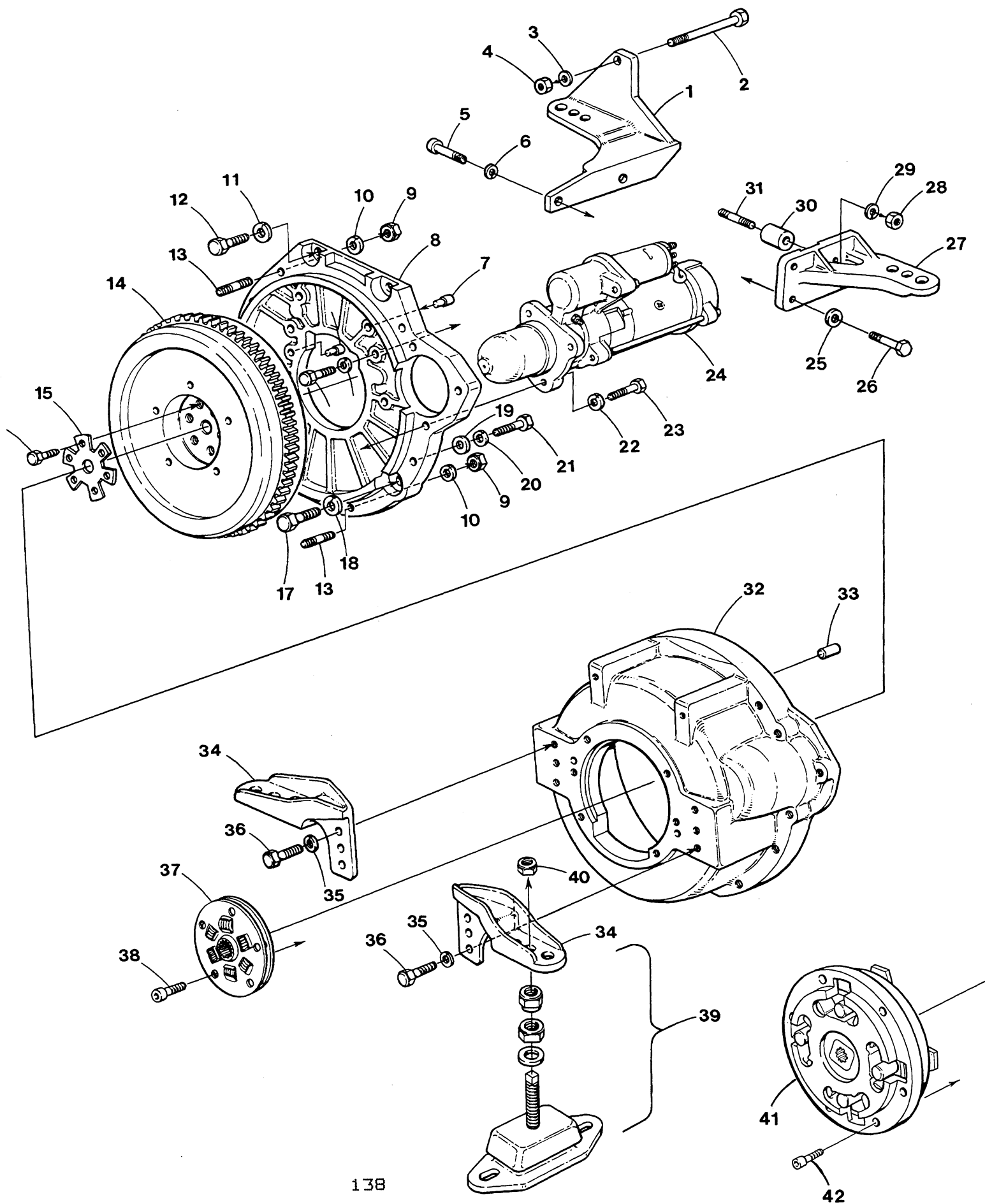
WESTERBEKE 90A - 32.0 BEDA - FUEL FILTER



WESTERBEKE 90A - 32.0 BEDA - FUEL FILTER

REF	PN	NAME	REMARKS	QUAN
1	040344	FILTER	FUEL COMPLETE ASSEMBLY	1
2	034448	WASHER	BANJO M10	1
3	015102	SCREW	FILTER BLEED	1
4	031506	CAPSCREW	1/4NC X 1-1/4	1
5	019442	WASHER	BANJO	1
6	041416	O-RING		1
7	041415	PLUG	M14 X 1.5	2
8	034449	WASHER	BANJO M14	2
9		O-RING	SEE REF 11	1
10		GASKET	FILTER UPPER SEE REF 11	1
11	014776	ELEMENT	FUEL INCLUDING REF 9, 10, 13	1
12		STUD	SEE REF 1	1
13		GASKET	FILTER LOWER SEE REF 11	1
14		BASE	SEE REF 1	1
15	030289	WASHER	BANJO M 8	1
16	031551	CAPSCREW	5/16NC X 1/2	1
17	046404	FILTER	FUEL COMPLETE ASSEMBLY	1
18	046409	O-RING		1
19	046408	PLUG		1
20	046406	SCREW	FILTER BLEED	1
21	046407	GASKET	BLEED SCREW	1
22	045278	FILTER	FUEL	1

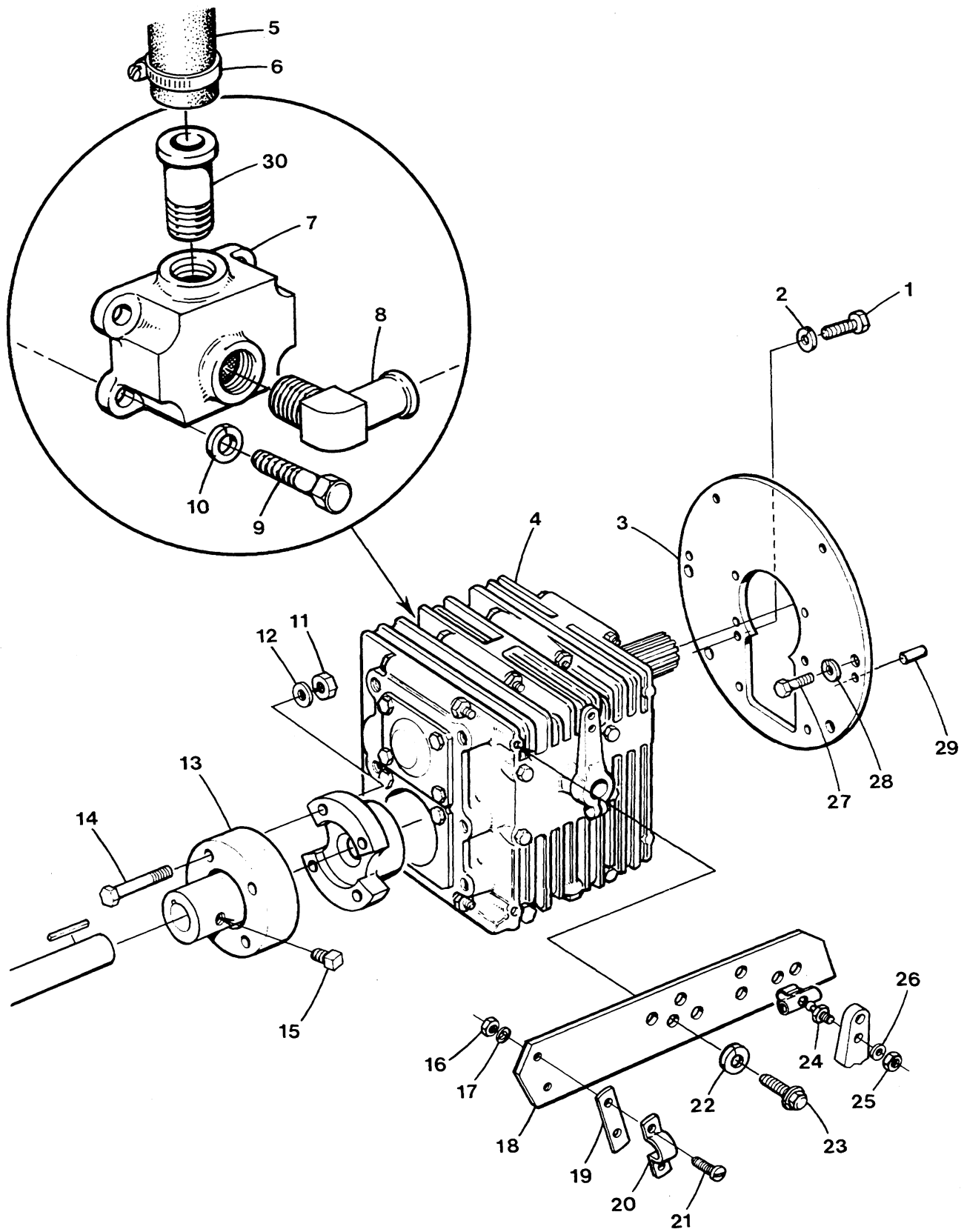
WESTERBEKE 90A FOUR - BACK END - MOUNTING SYSTEM



WESTERBEKE 90A FOUR - BACK END - MOUNTING SYSTEM

REF	PN	NAME	REMARKS	QUAN
1	041729	MOUNT	FRONT LEFT	1
2	031814	CAPSCREW	M 8 X 85 DIN 931	1
3	031786	LOCKWASHER	M 8 DIN 127	1
4	018242	NUT	M 8 DIN 934	1
5	031083	CAPSCREW	M10 X 1.25 X 30 JIS	2
6	019262	LOCKWASHER	M10 DIN 127	2
7	031154	DOWEL	STEP-BLOCK TO BACKPLATE	2
8	038296	BACKPLATE		1
9	015887	NUT	M10 DIN 934	3
10	019262	LOCKWASHER	M10 DIN 127	3
11	031797	LOCKWASHER	M14 DIN 127	4
12	031223	CAPSCREW	M14 X 1.5 X 30 DIN 961	4
13	037821	STUD	M10 X 30 DIN 939	3
14-1	039089	FLYWHEEL	INCLUDING RING GEAR	1
14-2	038392	GEAR	RING	1
15	036206	TABWASHER		1
16	036138	BOLT	FLYWHEEL M15	6
17	024953	CAPSCREW	M10 X 1.25 X 35 DIN 961	6
18	019262	LOCKWASHER	M10 DIN 127	6
19	031789	WASHER	M10 DIN 125	10
20	019262	LOCKWASHER	M10 DIN 127	4
21	034470	CAPSCREW	M10 X 45 DIN 931	4
22	019262	LOCKWASHER	M10 DIN 127	3
23	013631	CAPSCREW	M10 X 55 DIN 933	3
24	038384	MOTOR	STARTER 12 VDC	1
25	019262	LOCKWASHER	M10 DIN 127	2
26	031083	CAPSCREW	M10 X 1.25 X 30 JIS	2
27	041713	MOUNT	FRONT RIGHT	1
28	031795	NUT	M12 X 1.5 DIN 934	1
29	031792	LOCKWASHER	M12 DIN 127	1
30	040544	SPACER		1
31	032916	STUD	M12 X 1.5 X 48	1
32	038376	HOUSING	FLYWHEEL	1
33	019039	DOWEL	3/8 X 3/4	2
34	041719	MOUNT	REAR	2
35	019262	LOCKWASHER	M10 DIN 127	6
36	034589	CAPSCREW	M10 X 30 DIN 933	6
37	011618	DAMPER	HBW250 OR WARNER	1
38	024778	CAPSCREW	DAMPER TO FLYWHEEL	5
39	040513	ISOLATOR		4
40	040966	NUT	M16 JAM SELF-LOCKING	4
41	042107	DAMPER	HSW450-630	1
42-1	013630	CAPSCREW	M 8 X 25 DIN 933	6
42-2	031786	LOCKWASHER	M 8 DIN 127	6
42-3	031787	WASHER	M 8 DIN 125	6

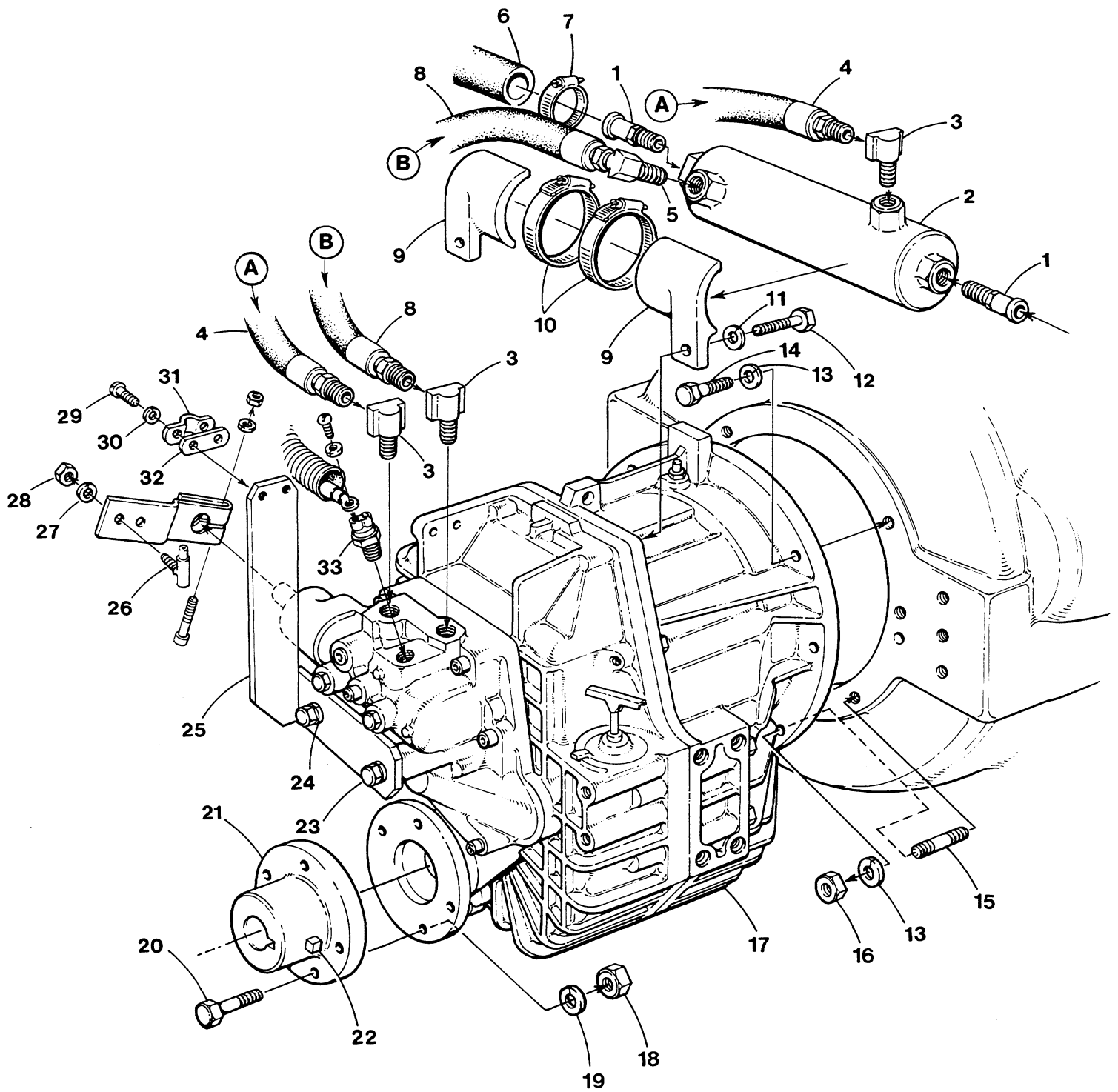
WESTERBEKE 90A FOUR - MODEL HBW 250 TRANSMISSION



WESTERBEKE 90A FOUR - MODEL HBW 250 TRANSMISSION

REF	PN	NAME	REMARKS	QUAN
1	018813	CAPSCREW	M10 X 20 DIN 933	6
2	019262	LOCKWASHER	M10 DIN 127	6
3	038442	ADAPTER	HBW 250 GEAR TO HOUSING	1
4-1	032564	GEAR	HBW 250 1.5:1	1
4-2	032565	GEAR	HBW 250 1.9:1	1
4-3	032566	GEAR	HBW 250 2.7:1	1
5	011779	HOSE	1" ID WIRE INSERTED - INCHES REQUIRED	24
6	011405	CLAMP	HOSE 16	2
7	040036	COOLER	HBW TRANSMISSION	1
8	036614	ELBOW	3/4NPT TO 1" HOSE	1
9	017196	CAPSCREW	M 8 X 20 DIN 933	4
10	031786	LOCKWASHER	M 8 DIN 127	4
11	024950	NUT	M10 X 1.25 DIN 934	4
12	019262	LOCKWASHER	M10 DIN 127	4
13-1	023706	COUPLING	HBW 0.75 IN BORE	1
13-2	023707	COUPLING	HBW 0.875 IN BORE	1
13-3	023708	COUPLING	HBW 1.0 IN BORE	1
13-4	023709	COUPLING	HBW 1.125 IN BORE	1
13-5	023710	COUPLING	HBW 1.25 IN BORE	1
13-6	023711	COUPLING	HBW 1.375 IN BORE	1
13-7	023712	COUPLING	HBW 1.5 IN BORE	1
14	031228	CAPSCREW	M10 X 1.25 X 30 DIN 961	4
15-1	023651	SETSCREW	COUPLING 3/8NC X 3/4	2
15-2	023652	SETSCREW	COUPLING 3/8NC X 1	2
16	031847	NUT	10-32 HEX SS	2
17	031849	LOCKWASHER	10 SS	2
18	032161	BRACKET	SHIFT CABLE	1
19	013870	SHIM	SHIFT CABLE	1
20	013325	CLAMP	SHIFT CABLE	1
21	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2
22	031786	LOCKWASHER	M 8 DIN 127	2
23	020650	CAPSCREW	M 8 X 18 DIN 933	2
24	033482	BALLJOINT	SHIFT CABLE	1
25	031754	NUT	1/4NF	1
26	031752	LOCKWASHER	1/4	1
27	031656	CAPSCREW	7/16NC X 1-1/4	6
28	031770	LOCKWASHER	7/16	6
29	013919	DOWEL	ADAPTER TO HOUSING	2
30	036622	NIPPLE	3/4NPT TO 1" HOSE	1

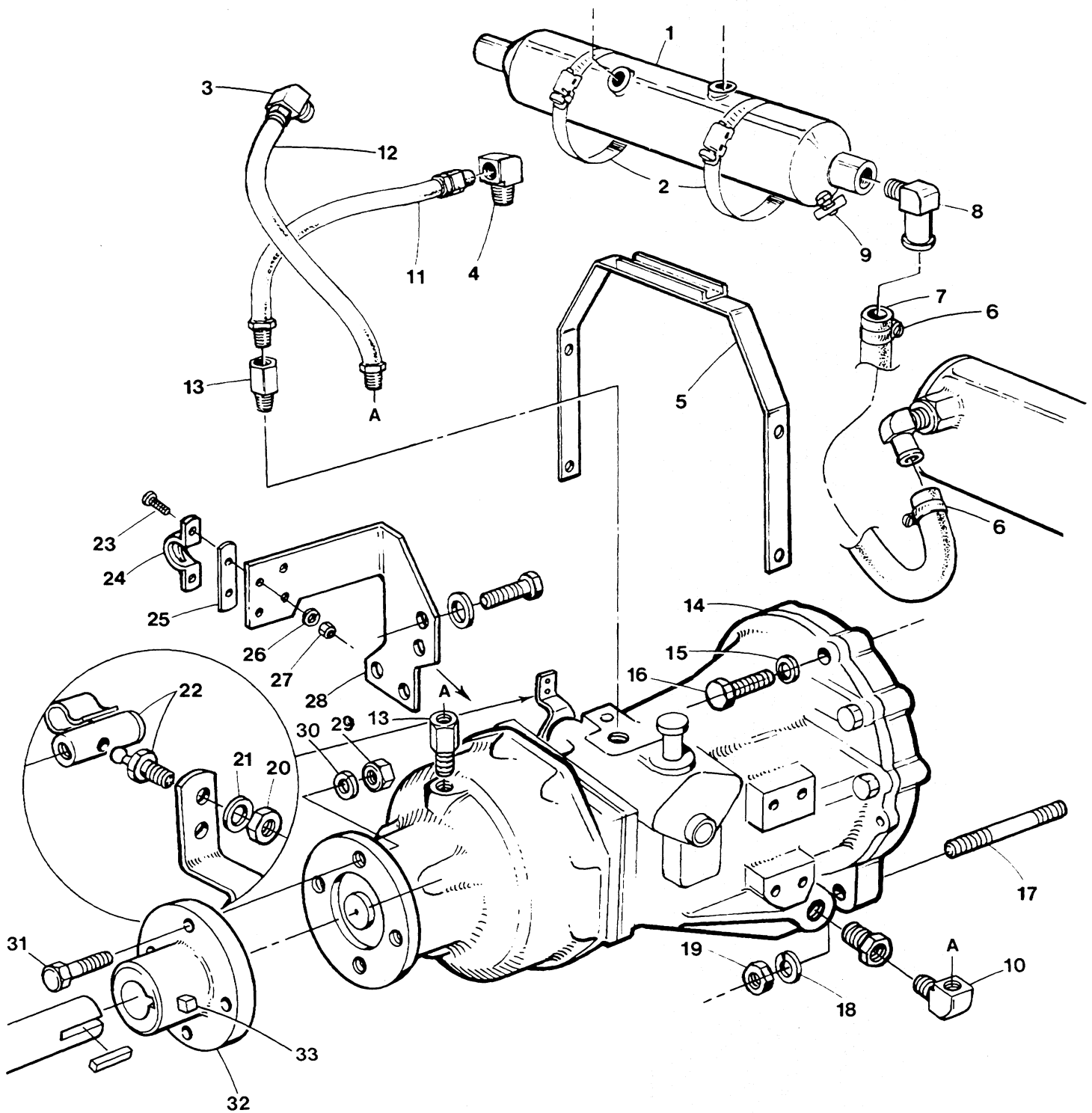
WESTERBEKE 90A FOUR - MODEL HSW 450-630 TRANSMISSION



WESTERBEKE 90A FOUR - MODEL HSW 450-630 TRANSMISSION

REF	PN	NAME	REMARKS	QUAN
1	036622	NIPPLE	3/4NPT TO 1" HOSE	2
2	036650	COOLER	OIL	1
3	013330	ELBOW	MALE 3/8 NPT 90 TO HOSE	3
4	023567	HOSE	OIL	1
5	013331	ELBOW	MALE 3/8NPT 45 TO HOSE	1
6	011779	HOSE	1" ID WIRE INSERTED - INCHES REQUIRED	12
7	011405	CLAMP	HOSE 16	2
8	036121	HOSE	OIL	1
9	039155	BRACKET	COOLER - SET	1
10	011411	CLAMP	HOSE 32	2
11	019262	LOCKWASHER	M10 DIN 127	2
12	034590	CAPSCREW	M10 X 40 DIN 933	2
13	031770	LOCKWASHER	7/16	6
14	031656	CAPSCREW	7/16NC X 1-1/4	4
15	039276	STUD	7/16NC X 1-3/4	2
16	031768	NUT	7/16NC	2
17- 1	038608	GEAR	HSW 630H 2:1	1
17- 2	039789	GEAR	HSW 630H 2.5:1	1
17- 3	038609	GEAR	HSW 630H 2.8:1	1
17- 4	038610	GEAR	HSW 630A 2:1	1
17- 5	038611	GEAR	HSW 630A 2.5:1	1
17- 6	038132	GEAR	HSW 630V 2:1	1
17- 7	040444	GEAR	HSW 630V 2.5:1	1
17- 8	044882	GEAR	HSW 450A 2:1	1
17- 9	042011	GEAR	HSW 450A 2.4:1	1
18	031772	NUT	7/16NF	4
19	031770	LOCKWASHER	7/16	4
20	031682	CAPSCREW	7/16NF X 1-1/2	4
21-1	011961	COUPLING	1.0 IN BORE	1
21-2	011962	COUPLING	1.125 IN BORE	1
21-3	011963	COUPLING	1.25 IN BORE	1
21-4	011964	COUPLING	1.375 IN BORE	1
21-5	023609	COUPLING	1.5 IN BORE	1
21-6	039323	COUPLING	1.75 IN BORE	1
22	023653	SETSCREW	COUPLING 3/8NC X 1-1/4	2
23	031603	CAPSCREW	3/8NC X 3/4	2
24	031764	LOCKWASHER	3/8	2
25	039154	BRACKET	SHIFT CABLE	1
26	033482	BALLJOINT	SHIFT CABLE	1
27	031752	LOCKWASHER	1/4	1
28	031754	NUT	1/4NF	1
29	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2
30	031849	LOCKWASHER	10 SS	2
31	013325	CLAMP	SHIFT CABLE	1
32	013870	SHIM	SHIFT CABLE	1
33		SWITCH	NEUTRAL SAFETY	1

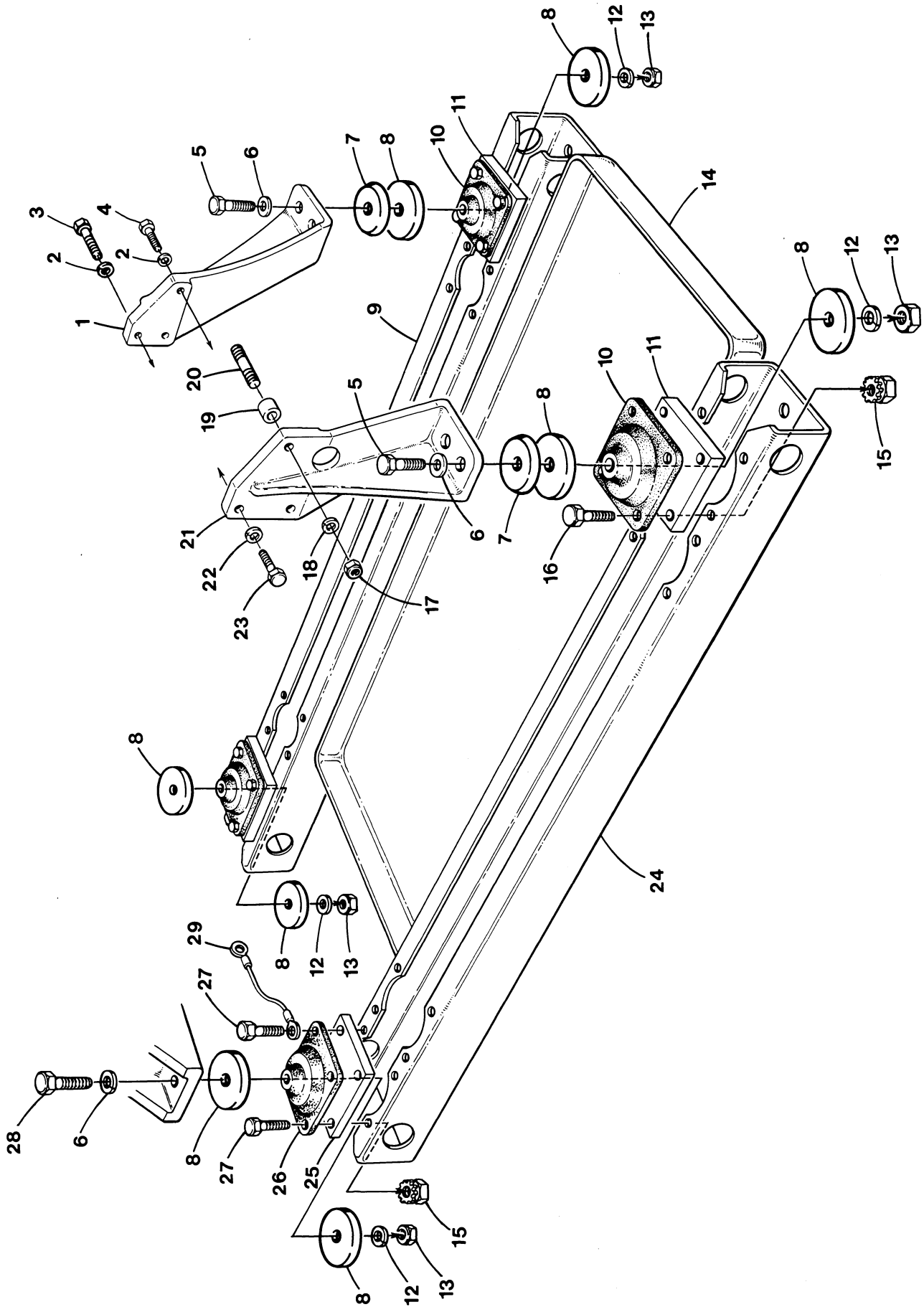
WESTERBEKE 90A FOUR - WARNER TRANSMISSION



WESTERBEKE 90A FOUR - WARNER TRANSMISSION

REF	PN	NAME	REMARKS	QUAN
1	036650	COOLER	OIL	1
2	011411	CLAMP	HOSE 32	2
3	013330	ELBOW	COOLER TO HOSE	1
4	013338	ELBOW	3/8NPT STREET 90 BRASS	1
5	013057	BRACKET	COOLER MOUNT TO TRANSMISSION	1
6	011405	CLAMP	HOSE 16	2
7	011779	HOSE	1" ID WIRE INSERTED - INCHES REQUIRED	16
8	036614	ELBOW	3/4NPT TO 1' HOSE	2
9	011471	PETCOCK	1/8NPT	1
10	013330	ELBOW	HOSE TO TRANSMISSION	1
11	011921	HOSE	OIL	1
12-1	022114	HOSE	OIL - 1:1 AND 2:1 TRANSMISSION	1
12-2	023567	HOSE	OIL - REDUCTION TRANSMISSION EXCEPT 2:1	1
13-1	013348	CONNECTOR	HOSE TO TRANSMISSION EXCEPT 2:1	1
13-2	013348	CONNECTOR	HOSE TO 2:1 TRANSMISSION	2
14-1	011630	GEAR	71C HYDRAULIC 1:1	1
14-2	011631	GEAR	71C HYDRAULIC 1.5:1	1
14-3	019047	GEAR	72C HYDRAULIC 1.9:1 OPPOSITE ROTATION	1
14-4	019044	GEAR	72C HYDRAULIC 2:1	1
14-5	019045	GEAR	72C HYDRAULIC 2.5:1	1
14-6	019046	GEAR	72C HYDRAULIC 3:1	1
15	031770	LOCKWASHER	7/16	4
16	031665	CAPSCREW	7/16NC X 3-1/2	4
17	023467	STUD	7/16NC X 4	2
18	031770	LOCKWASHER	7/16	2
19	031768	NUT	7/16NC	2
20	031754	NUT	1/4NF	1
21	031752	LOCKWASHER	1/4	1
22	033482	BALLJOINT	SHIFT CABLE	1
23	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2
24	013325	CLAMP	SHIFT CABLE	1
25	013870	SHIM	SHIFT CABLE	1
26	031849	LOCKWASHER	10 SS	2
27	031847	NUT	10-32 HEX SS	2
28	032315	BRACKET	SHIFT CABLE	1
29	031768	NUT	7/16NC	4
30	031770	LOCKWASHER	7/16	4
31	031655	CAPSCREW	7/16NC X 1	4
32- 1	023706	COUPLING	DIRECT DRIVE 0.75 IN BORE	1
32- 2	023707	COUPLING	DIRECT DRIVE 0.875 IN BORE	1
32- 3	023708	COUPLING	DIRECT DRIVE 1.0 IN BORE	1
32- 4	023709	COUPLING	DIRECT DRIVE 1.125 IN BORE	1
32- 5	023710	COUPLING	DIRECT DRIVE 1.25 IN BORE	1
32- 6	023711	COUPLING	DIRECT DRIVE 1.375 IN BORE	1
32- 7	023712	COUPLING	DIRECT DRIVE 1.5 IN BORE	1
32- 8	011961	COUPLING	REDUCTION 1.0 IN BORE	1
32- 9	011962	COUPLING	REDUCTION 1.125 IN BORE	1
32-10	011963	COUPLING	REDUCTION 1.25 IN BORE	1
32-11	011964	COUPLING	REDUCTION 1.375 IN BORE	1
32-12	023609	COUPLING	REDUCTION 1.5 IN BORE	1
32-13	032923	COUPLING	REDUCTION 1.75 IN BORE	1
32-2	023652	SETSCREW	COUPLING 3/8NC X 1	2
33-1	023651	SETSCREW	COUPLING 3/8NC X 3/4	2
33-3	023653	SETSCREW	COUPLING 3/8NC X 1-1/4	2

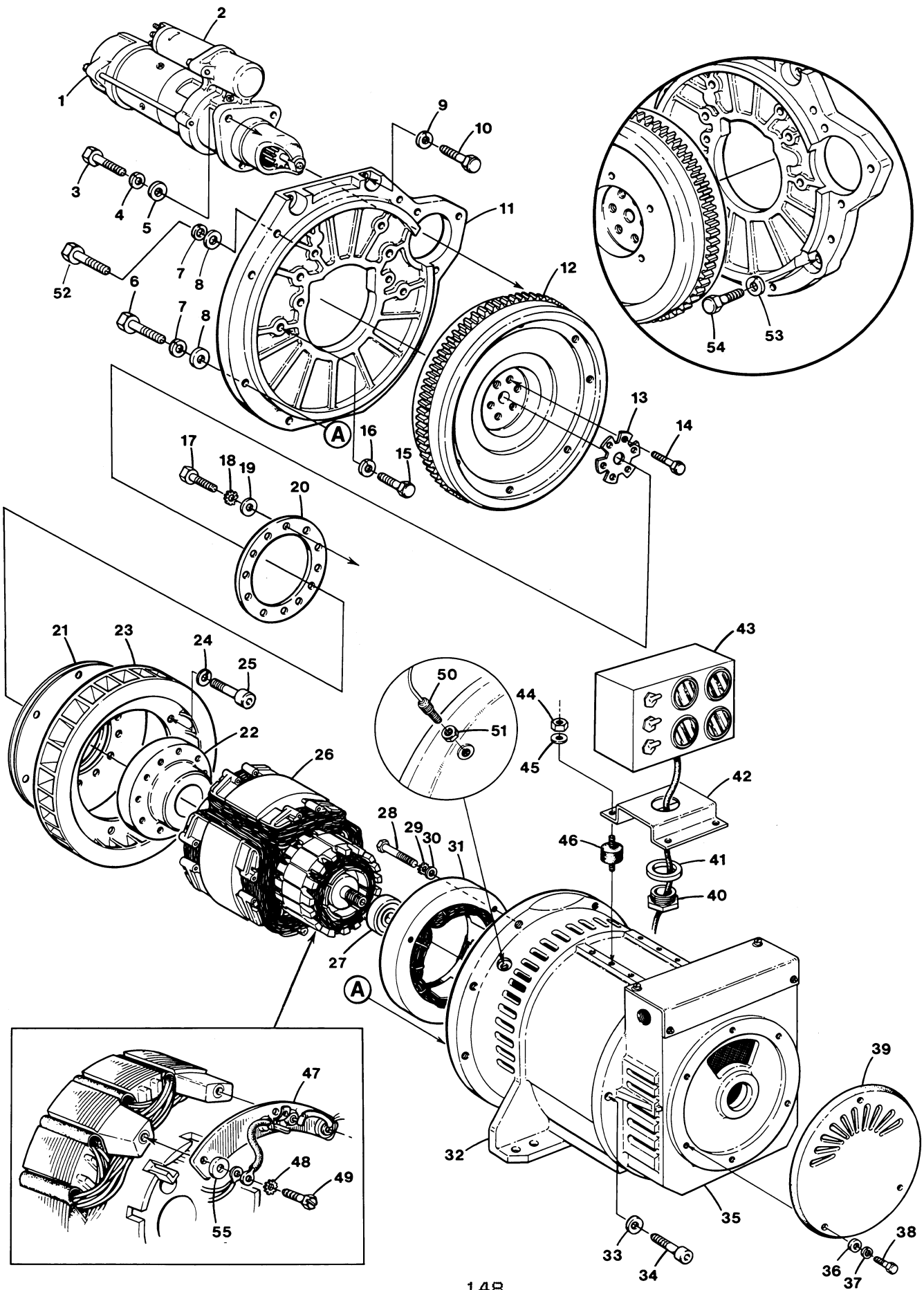
WESTERBEKE 32.0 BEDA - MOUNTING SYSTEM



WESTERBEKE 32.0 BEDA - MOUNTING SYSTEM

REF	PN	NAME	REMARKS	QUAN
1	038682	MQUNT	FRONT LEFT	1
2	019262	LOCKWASHER	M10 DIN 127	3
3	024953	CAPSCREW	M10 X 1.25 X 35 DIN 961	1
4	031083	CAPSCREW	M10 X 1.25 X 30 JIS	2
5	031714	CAPSCREW	1/2NC X 3-1/4	2
6	031777	WASHER	1/2 FLAT	4
7	033530	SHIELD	ISOLATOR	2
8	024674	WASHER	ISOLATOR SNUBBING	8
9	024701	RAIL	LEFT	1
10	301136	ISOLATOR	FRONT	2
11	037792	SPACER	ISOLATOR TO RAIL	2
12	031776	LOCKWASHER	1/2	4
13	031774	NUT	1/2NC	4
14	038698	DRIPTRAY		1
15	200127	NUT	5/16NC KEPS	16
16	031559	CAPSCREW	5/16NC X 2	8
17	031795	NUT	M12 X 1.5 DIN 934	1
18	031792	LOCKWASHER	M12 DIN 127	1
19	040544	SPACER		1
20	032916	STUD	M12 X 1.5 X 48	1
21	038684	MQUNT	FRONT RIGHT	1
22	019262	LOCKWASHER	M10 DIN 127	2
23	031083	CAPSCREW	M10 X 1.25 X 30 JIS	2
24	024701	RAIL	RIGHT	1
25	035271	SPACER	ISOLATOR TO RAIL	2
26	015239	ISOLATOR	REAR	2
27	031557	CAPSCREW	5/16NC X 1-1/2	8
28	031718	CAPSCREW	1/2NC X 4-1/4	2
29	034713	STRAP	GROUND RAIL TO GENSET	1

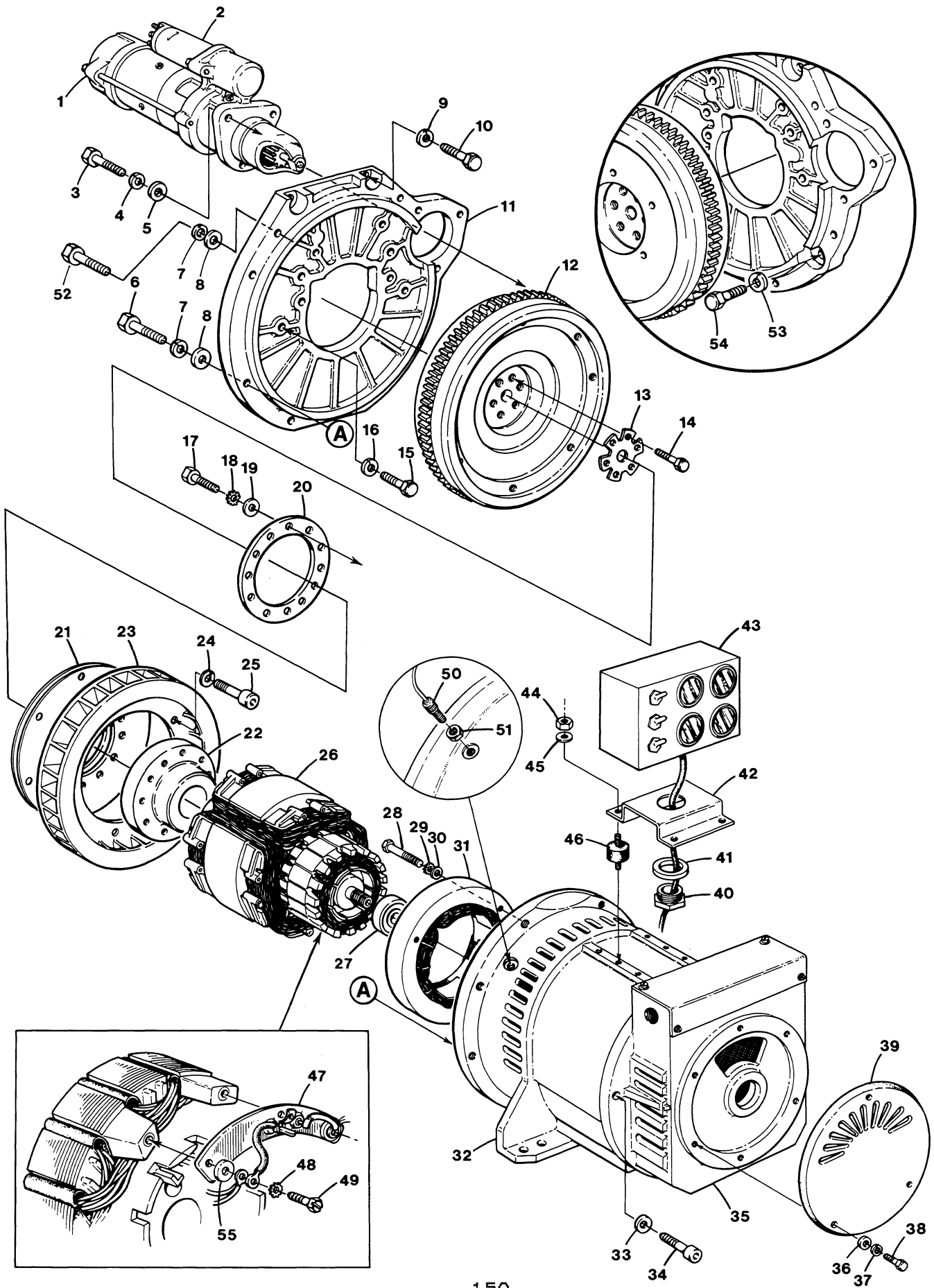
WESTERBEKE 32.0 BEDA - BACK END - GENERATOR



WESTERBEKE 32.0 BEDA - BACK END - GENERATOR

REF	PN	NAME	REMARKS	QUAN
1	038384	MOTOR	STARTER 12 VDC	1
2	039523	SOLENOID	STARTER MOTOR 38384 12 VDC	1
3	013631	CAPSCREW	M10 X 55 DIN 933	3
4	019262	LOCKWASHER	M10 DIN 127	3
5	031789	WASHER	M10 DIN 125	4
6	034470	CAPSCREW	M10 X 45 DIN 931	4
7	019262	LOCKWASHER	M10 DIN 127	7
8	031789	WASHER	M10 DIN 125	7
9	031797	LOCKWASHER	M14 DIN 127	4
10	031223	CAPSCREW	M14 X 1.5 X 30 DIN 961	4
11	038296	BACKPLATE		1
12-1	038395	FLYWHEEL	INCLUDING RING GEAR	1
12-2	038392	GEAR	RING	1
13	036206	WASHER	FLYWHEEL	1
14	036138	BOLT	FLYWHEEL M15	6
15	024953	CAPSCREW	M10 X 1.25 X 35 DIN 961	6
16	019262	LOCKWASHER	M10 DIN 127	6
17	013629	CAPSCREW	M10 X 25 DIN 933	10
18	019262	LOCKWASHER	M10 DIN 127	10
19	031789	WASHER	M10 DIN 125	10
20	039869	PLATE	DRIVE DISC TO HUB	1
21	039785	DISC	DRIVE	4
22	039668	HUB	DRIVE	1
23	039637	FAN		1
24	019262	LOCKWASHER	M10 DIN 127	8
25	039318	CAPSCREW	M10 X 25 DIN 912	8
26	039784	ARMATURE		1
27	039638	BEARING	BALL	1
28	030146	CAPSCREW	M 6 X 55 DIN 931	3
29	031783	LOCKWASHER	M 6 DIN 127	3
30	031784	WASHER	M 6 DIN 125	3
31	039639	STATOR	EXCITER	1
32-1	039782	GENERATOR	1 PHASE	1
32-2	039783	STATOR	1 PHASE	1
32-3	040564	STATOR	INCLUDING HOUSING 1 PHASE	1
32-4	039868	GENERATOR	3 PHASE	1
32-5	039870	STATOR	3 PHASE	1
32-6	039873	STATOR	INCLUDING HOUSING 3 PHASE	1
33	031915	LOCKWASHER	M10 DIN 6797A	3
34	039871	CAPSCREW	M10 X 35 DIN 912	3
35	039669	HOUSING	GENERATOR END	1

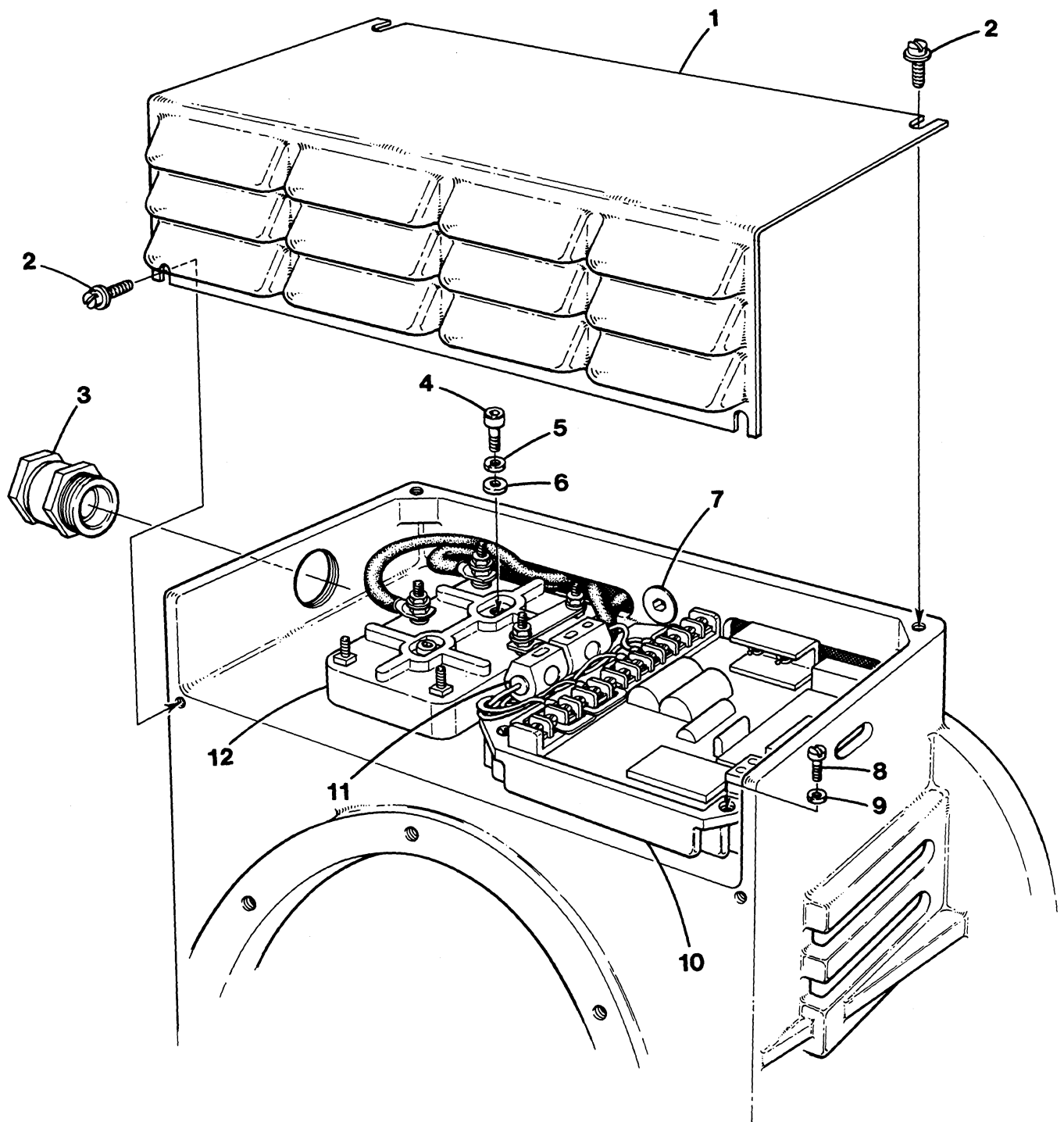
WESTERBEKE 32.0 BEDA - BACK END - GENERATOR



WESTERBEKE 32.0 BEDA - BACK END - GENERATOR

REF	PN	NAME	REMARKS	QUAN
36	031789	WASHER	M10 DIN 125	3
37	019262	LOCKWASHER	M10 DIN 127	3
38	013629	CAPSCREW	M10 X 25 DIN 933	3
39	039074	COVER	PTO	1
40	036464	NIPPLE	CHASE INCLUDED WITH PANEL BOX ASSEMBLY	1
41	036492	RING	SEALING INCLUDED WITH PANEL BOX ASSEMBLY	1
42	036730	BRACKET	PANEL MOUNT INCLUDED WITH PANEL BOX ASSY	1
43		PANEL	REFER TO PANEL PAGE	1
44	015812	NUT	M 6 DIN 934	4
45	031783	LOCKWASHER	M 6 DIN 127	4
46-1	036652	ISOLATOR	PANEL MOUNT TO SEPT 97	4
46-2	034731	ISOLATOR	PANEL MOUNT FROM SEPT 97	4
46-3	024836	SPACER	PANEL ISOLATOR FROM SEPT 97	8
47	039666	DIODE	ASSEMBLY	3
48	031914	LOCKWASHER	M 5 DIN 6797A	9
49	031931	SCREW	M 5 X 16 DIN 84A	9
50	039172	SENSOR	MAGNETIC	1
51		NUT		1
52	037821	STUD	M10 X 30 DIN 939	3
53	019262	LOCKWASHER	M10 DIN 127	3
54	015887	NUT	M10 DIN 934	3
55	042089	WASHER	INSULATING	9

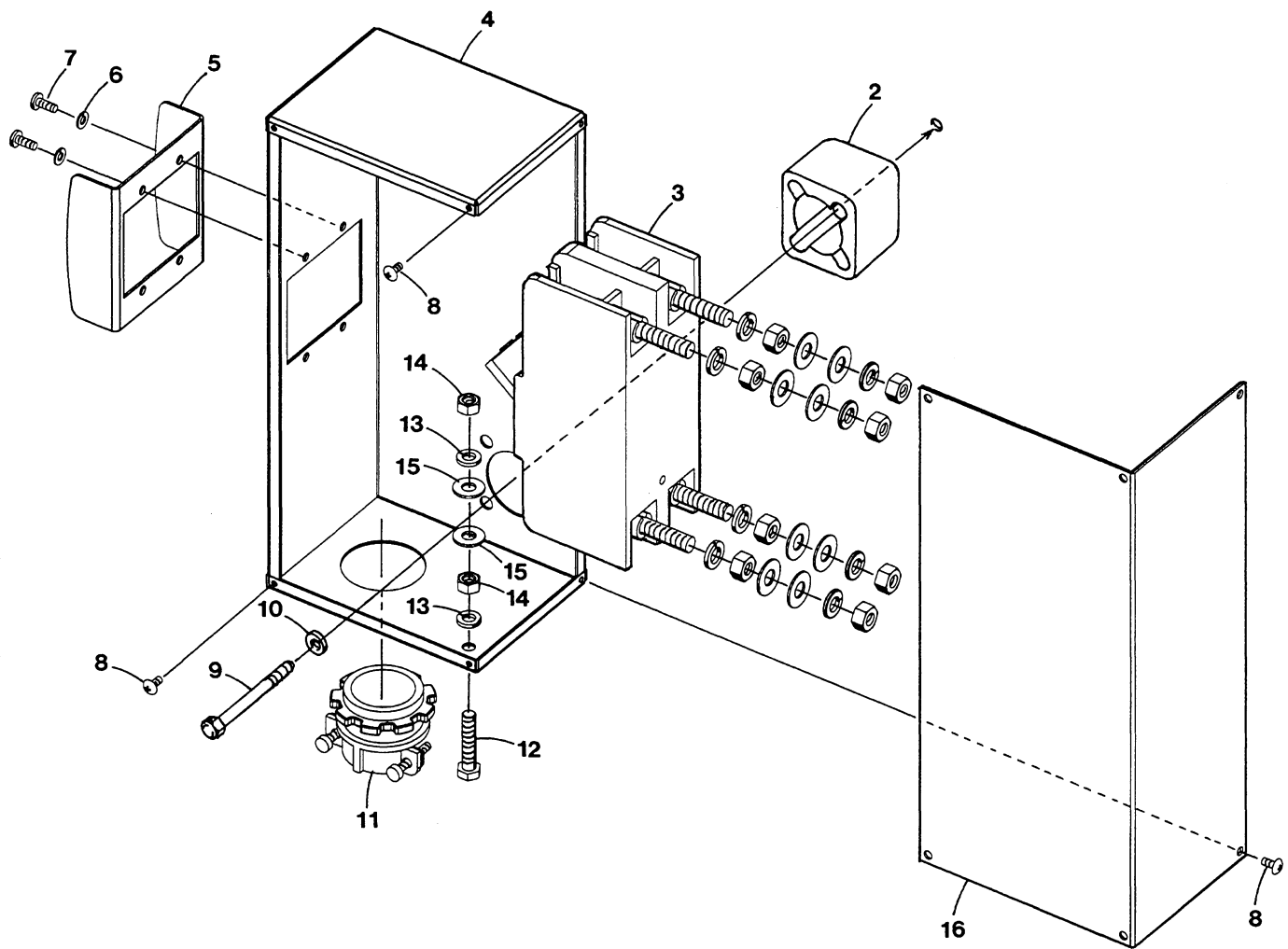
WESTERBEKE 32.0 BEDA - AC OUTPUT AND REGULATOR



WESTERBEKE 32.0 BEDA - AC OUTPUT AND REGULATOR

REF	PN	NAME	REMARKS	QUAN
1	038985	COVER	AC OUTPUT	1
2	031918	SCREW	M 5 X 10 DIN 84A	4
3	036737	CONNECTOR	BOX 1-1/2 - AC OUTPUT LEADS	1
4	039874	CAPSCREW	M 6 X 20 DIN 912	2
5	031783	LOCKWASHER	M 6 DIN 127	2
6	031784	WASHER	M 6 DIN 125	2
7	039872	CAPSCREW	M10 X 35 DIN 7991	1
8	039875	SCREW	M 4 X 25 DIN 84A	4
9	031917	LOCKWASHER	M 4 DIN 6797A	4
10	042336	REGULATOR	VOLTAGE	1
11-1	039667	HOLDER	FUSE	1
11-2	038471	FUSE		1
12-1	039632	BLOCK	TERMINAL AC OUTPUT	1
12-2	039633	BAR	BUSS	AR
12-3	039634	NUT	M 8 BRASS	AR
13-1	039306	LABEL	AC OUTPUT 1 PHASE	1
13-2	039686	LABEL	AC OUTPUT 3 PHASE	1

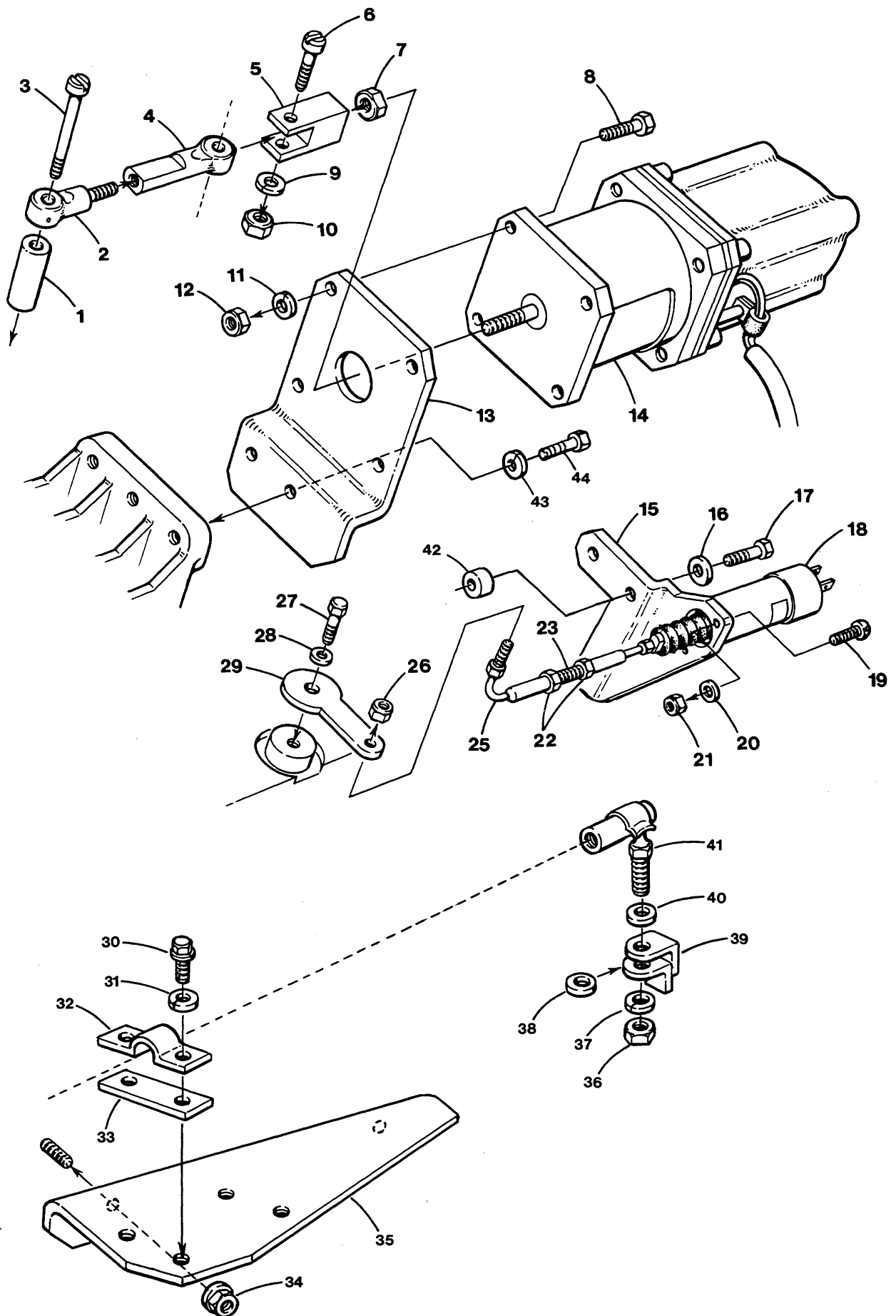
WESTERBEKE 32.0 BEDA - AC OUTPUT 1 PHASE CIRCUIT BREAKER



WESTERBEKE 32.0 BEDA - AC OUTPUT 1 PHASE CIRCUIT BREAKER

REF	PN	NAME	REMARKS	QUAN
1-1	041136	BREAKER	KIT 60HZ THERMAL	1
1-2	044899	BREAKER	KIT 60HZ MAGNETIC	1
1-3	043272	BREAKER	KIT 50HZ THERMAL	1
2	044343	SPACER		1
3-1	042703	BREAKER	AC CIRCUIT 150AMP 60HZ THERMAL	1
3-2	045011	BREAKER	AC CIRCUIT 150 AMP 60HZ MAGNETIC	1
3-3	043271	BREAKER	AC CIRCUIT 125 AMP 50HZ THERMAL	1
4-1	043726	BOX	AC BREAKER 45011-43271	1
4-2	044730	BOX	AC BREAKER 42703	1
5-1	042898	GUARD	BREAKER HANDLE BOX 43726	1
5-2	044762	GUARD	BREAKER HANDLE BOX 44730	1
6	031849	LOCKWASHER	10 SS	AR
7-1	043286	SCREW	10-32 X 3-1/2 SS PAN PHILLIPS HEAD	2
7-2	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	4
8	031891	SCREW	8-32 X 3/8 SS TRUSS HEAD	6
9	031812	CAPSCREW	M 8 X 65 DIN 931	4
10	031786	LOCKWASHER	M 8 DIN 127	4
11	041462	CONNECTOR	BOX 1-1/2	1
12	041194	CAPSCREW	5/16NC X 1-1/2 BRASS FULL THREAD	1
13	020274	LOCKWASHER	5/16 BRONZE	2
14	020272	NUT	5/16NC BRASS	2
15	020273	WASHER	FLAT 5/16 BRASS	2
16	041133	COVER		1
17-1	041192	WIRE	WHITE 60HZ	1
17-2	044097	WIRE	WHITE 50HZ	1
18-1	041193	WIRE	BLACK 60HZ BREAKER 42703	2
18-2	044079	WIRE	BLACK 60HZ BREAKER 45011	2
18-3	041193	WIRE	BLACK 50HZ BREAKER 43271	1
19	042719	DIAGRAM	WIRE BREAKERS	1

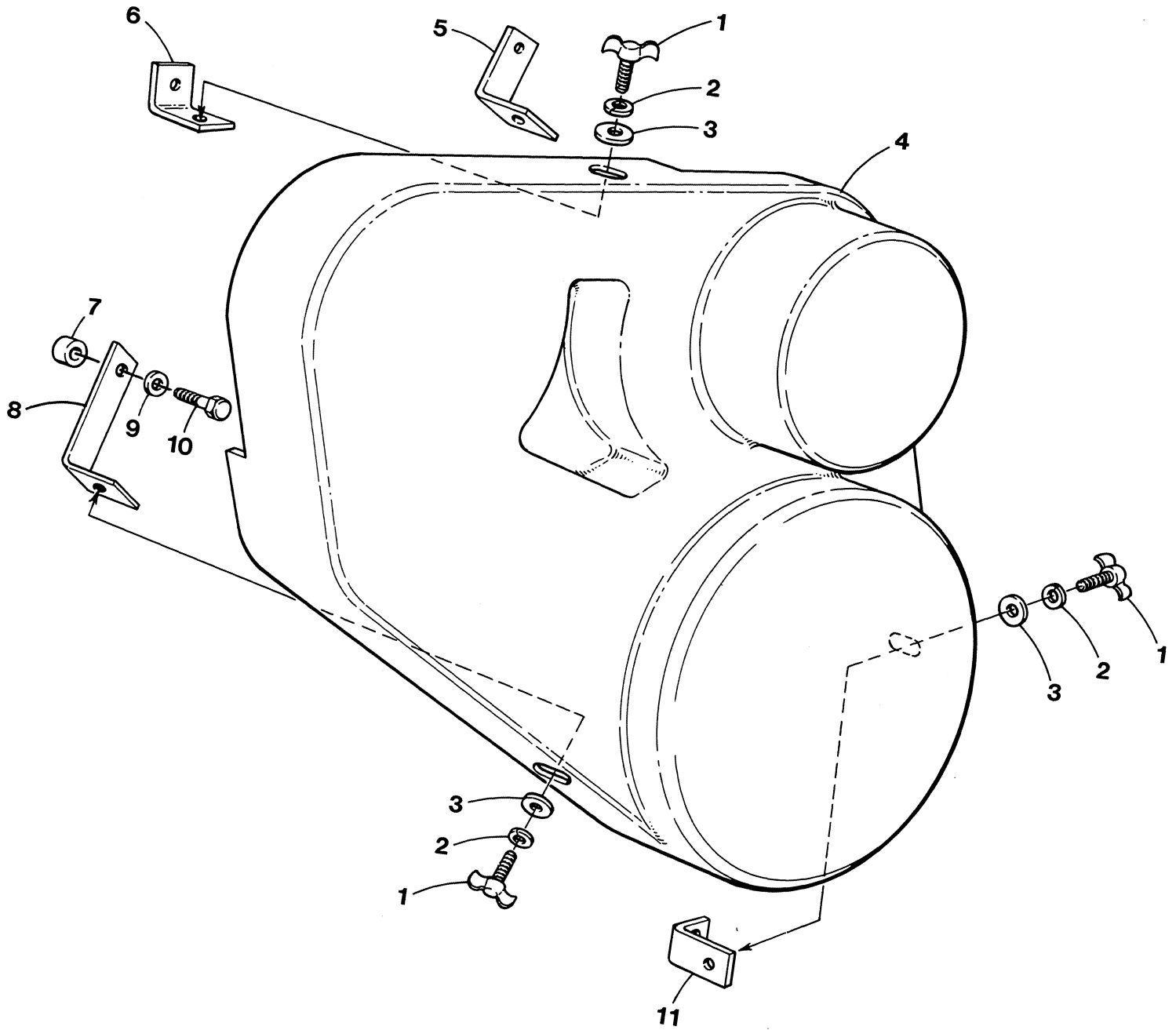
WESTERBEKE 90A - 32.0 BEDA - FUEL SOLENOID & GOVERNOR ACTUATOR



WESTERBEKE 90A - 32.0 BEDA - FUEL SOLENOID & GOVERNOR ACTUATOR

REF	PN	NAME	REMARKS	QUAN
1	039355	SPACER		1
2	039390	BALLJOINT		1
3	039470	SCREW	10-32 X 1-3/4 SS BINDING HEAD	1
4	303012	BALLJOINT		1
5	303009	CLEVIS	ACTUATOR	1
6	031875	SCREW	10-32 X 7/8 SS BINDING HEAD	1
7	031801	NUT	M 6 DIN 439 JAM	1
8	018804	CAPSCREW	M 6 X 20 DIN 933	4
9	031849	LOCKWASHER	10 SS	2
10	031847	NUT	10-32 HEX SS	2
11	031783	LOCKWASHER	M 6 DIN 127	4
12	015812	NUT	M 6 DIN 934	4
13	040032	BRACKET	GENSET GOVERNOR ACTUATOR	1
14-1	303007	ACTUATOR	GOVERNOR 12 VDC	1
14-2	039746	ACTUATOR	GOVERNOR 24 VDC	1
15	041018	BRACKET	FUEL SHUT-OFF SOLENOID	1
16	031783	LOCKWASHER	M 6 DIN 127	3
17	017012	CAPSCREW	M 6 X 16 DIN 933	3
18-1	023041	SOLENOID	FUEL SHUT-OFF 12 VDC	1
18-2	019348	SOLENOID	FUEL SHUT-OFF 24 VDC	1
19	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2
20	031849	LOCKWASHER	10 SS	2
21	031847	NUT	10-32 HEX SS	2
22	015225	BALLJOINT		1
23	023476	ROD	THREADED 1/4NF X 1-1/4	1
24	015534	NUT		2
25	015232	BALLJOINT		1
26-1	031754	NUT	1/4NF	1
26-2	031752	LOCKWASHER	1/4	1
27		CAPSCREW		1
28		LOCKWASHER		1
29	040033	LEVER	STOP	1
30	031873	SCREW	10-32 X 5/8 SS BINDING HEAD	2
31	031849	LOCKWASHER	10 SS	2
32	013325	CLAMP	CABLE	1
33	013870	SHIM		1
34	036211	NUT	M 6 JIS-FLANGE	2
35	041149	BRACKET	THROTTLE CABLE	1
36	031847	NUT	10-32 HEX SS	1
37	031849	LOCKWASHER	10 SS	1
38	033381	WASHER		1
39		LEVER	THROTTLE	1
40	024673	SPACER		1
41	019364	BALLJOINT		1
42	023413	SPACER		1
43	031786	LOCKWASHER	M 8 DIN 127	2
44	013630	CAPSCREW	M 8 X 25 DIN 933	2

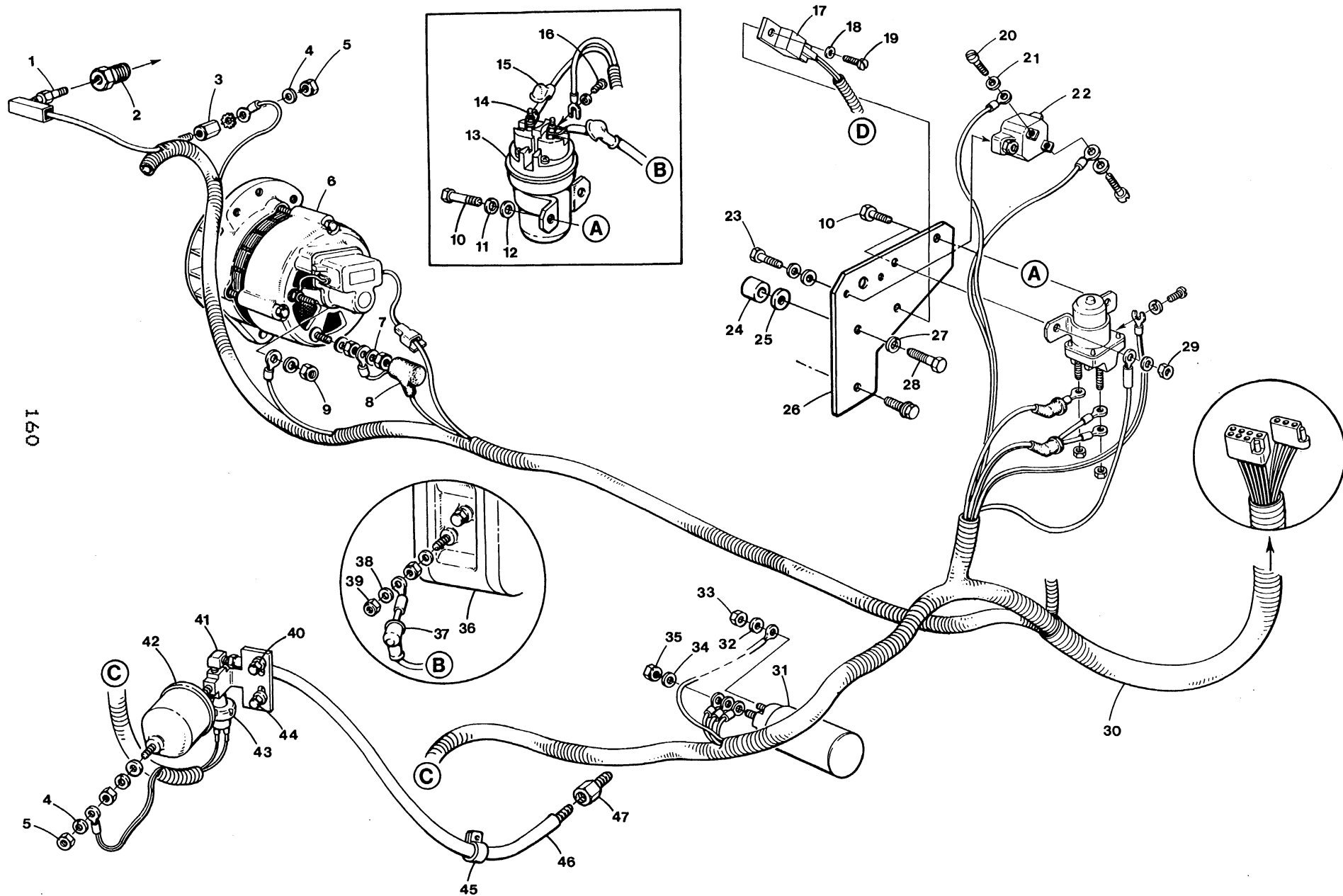
WESTERBEKE 32.0 BEDA - BELT GUARD



WESTERBEKE 32.0 BEDA - BELT GUARD

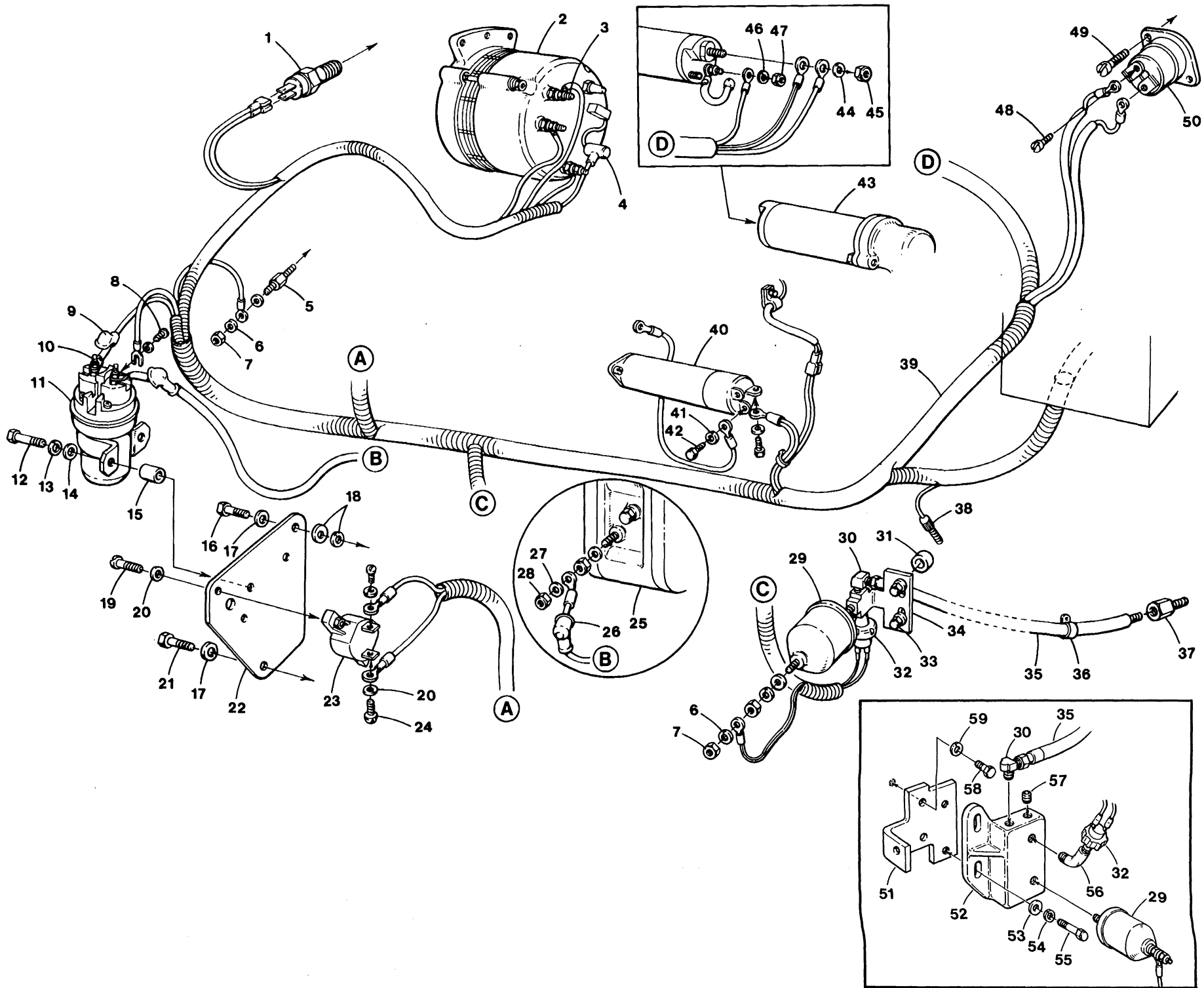
REF	PN	NAME	REMARKS	QUAN
1	033228	WINGSCREW	10-32 X 1/2	4
2	031849	LOCKWASHER	10 SS	4
3	033372	WASHER	FLAT	4
4	040427	GUARD	GENSET BELT	1
5	040542	BRACKET	BELT GUARD	1
6	036418	BRACKET	BELT GUARD	1
7	034616	SPACER		1
8	037148	BRACKET	BELT GUARD	1
9	031786	LOCKWASHER	M 8 DIN 127	1
10	031813	CAPSCREW	M 8 X 80 DIN 931	1
11	040543	BRACKET	BELT GUARD	1

WESTERBEKE 90A FOUR - ELECTRICAL SYSTEM



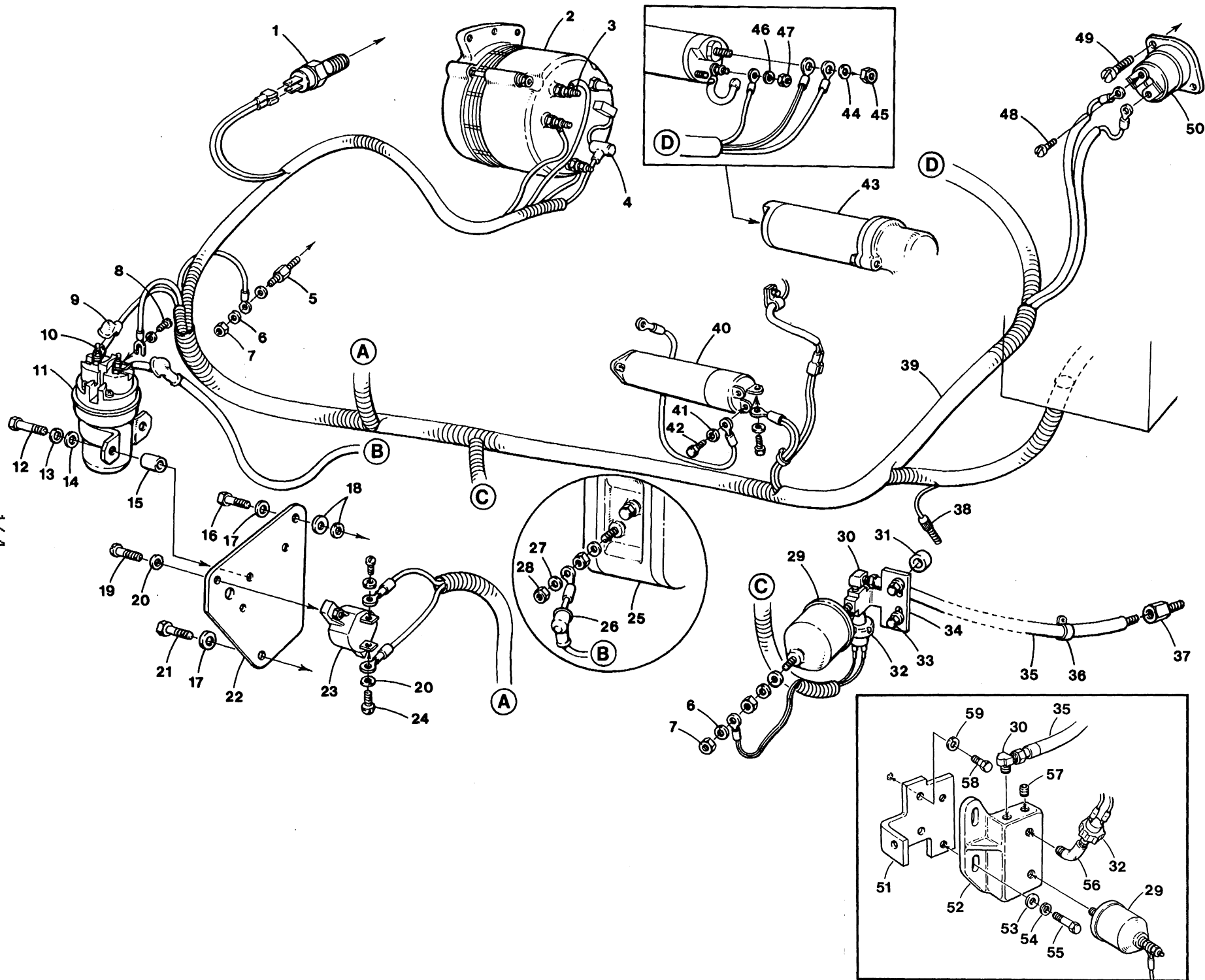
WESTERBEKE 90A FOUR - ELECTRICAL SYSTEM

REF	PN	NAME	REMARKS	QUAN
1	030125	SWITCH	WATER TEMPERATURE	1
2	037453	BUSHING	1/4NPT TO 1/8 NPT	1
3	035109	SENDER	WATER TEMPERATURE	1
4	031849	LOCKWASHER	10 SS	AR
5	031847	NUT	10-32 HEX SS	AR
6	039790	ALTERNATOR	50 AMP 12 VDC INCLUDING REGULATOR	1
7	200120	NUT	1/4NC KEPS	1
8	031086	BOOT		1
9	031904	NUT	10-24 KEPS	3
10	020628	CAPSCREW	M 6 X 25 DIN 933	2
11	031783	LOCKWASHER	M 6 DIN 127	2
12	031784	WASHER	M 6 DIN 125	2
13	040369	SOLENOID	INTAKE HEATER 12 VDC	1
14-1	015812	NUT	M 6 DIN 934	2
14-2	031783	LOCKWASHER	M 6 DIN 127	2
15	034472	BOOT		1
16		SCREW	M 4 X 5	1
17	037833	RELAY	12 VDC	1
18	031849	LOCKWASHER	10 SS	1
19	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	1
20	031861	SCREW	8-32 X 1/4 SS BINDING HEAD	2
21	031844	LOCKWASHER	8 SS	2
22	024683	BREAKER	CIRCUIT 20 AMP	1
23	043480	SCREW	8-32 X 7/8 SS HEX WASHER HEAD	2
24	021885	SPACER		2
25	031789	WASHER	M10 DIN 125	2
26	032270	BRACKET	RELAY-SOLENOID-BREAKER	1
27	019262	LOCKWASHER	M10 DIN 127	2
28	031083	CAPSCREW	M10 X 1.25 X 30 JIS	2
29	015812	NUT	M 6 DIN 934	2
30	041455	HARNESS	ENGINE	1
31	038523	SOLENOID	STARTER MOTOR 38384 12 VDC	1
32	031780	LOCKWASHER	M 5 DIN 127	1
33	018241	NUT	M 5 DIN 934	1
34	034575	LOCKWASHER	M10 DIN 127B BRONZE	1
35	032438	NUT	M10 DIN 439 BRASS	1
36	040368	SOLENOID	INTAKE HEATER 12 VDC	1
37	303107	BOOT	TERMINAL	1
38	031783	LOCKWASHER	M 6 DIN 127	1
39	015812	NUT	M 6 DIN 934	1
40	031228	CAPSCREW	M10 X 1.25 X 30 DIN 961	2
40-2	019262	LOCKWASHER	M10 DIN 127	2
40-3	031789	WASHER	M10 DIN 125	1
41	013340	ELBOW	1/8NPT STREET 90 BRASS	1
42	024132	SENDER	OIL PRESSURE	1
43	037323	SWITCH	OIL PRESSURE	1
44	032480	BRACKET	OIL PRESSURE SENDER & SWITCH	1
45	013736	CLAMP	SUPPORT HOSE	1
46	039608	HOSE	OIL	1
47	024844	ADAPTER	1/8BSPT TO 1/8NPT-HOSE TO BLOCK	1



WESTERBEKE 32.0 BEDA - ELECTRICAL SYSTEM

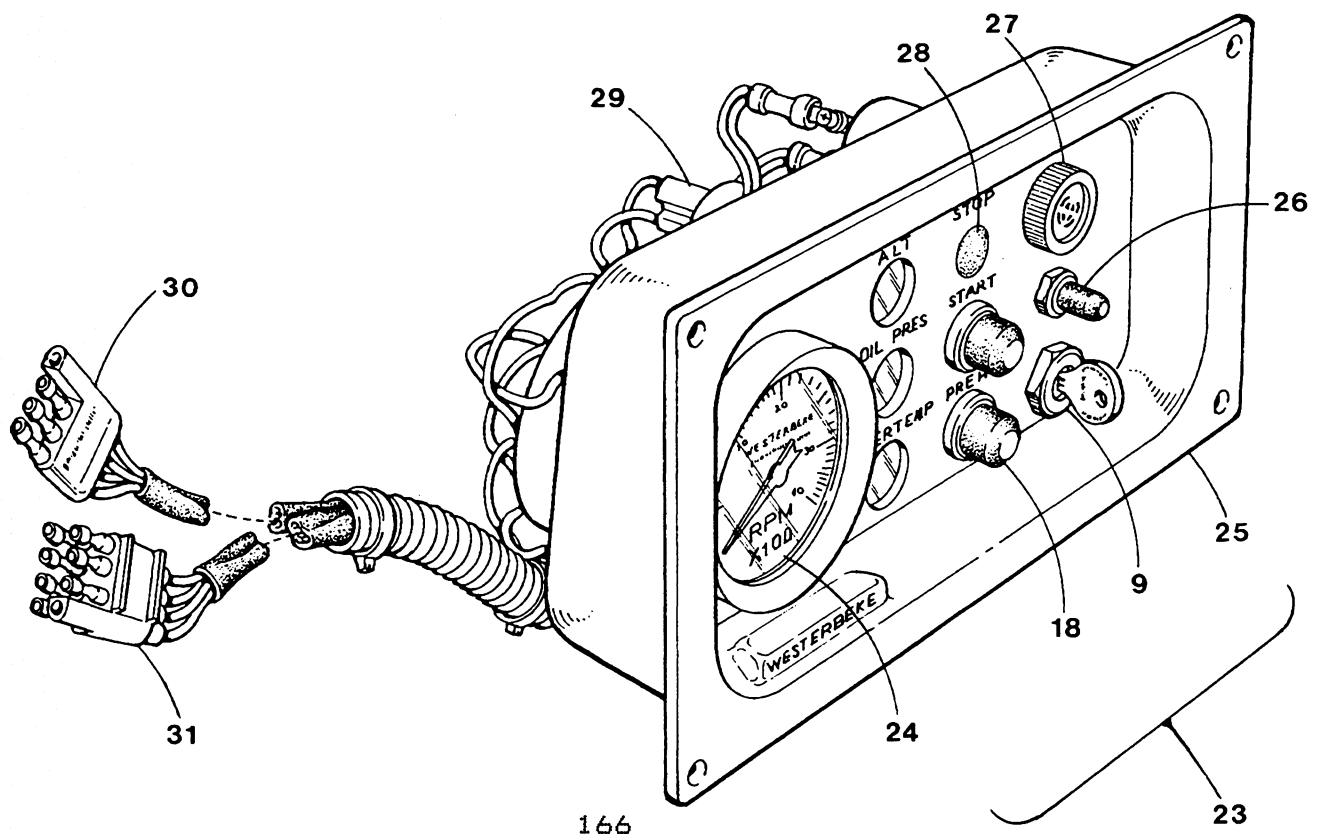
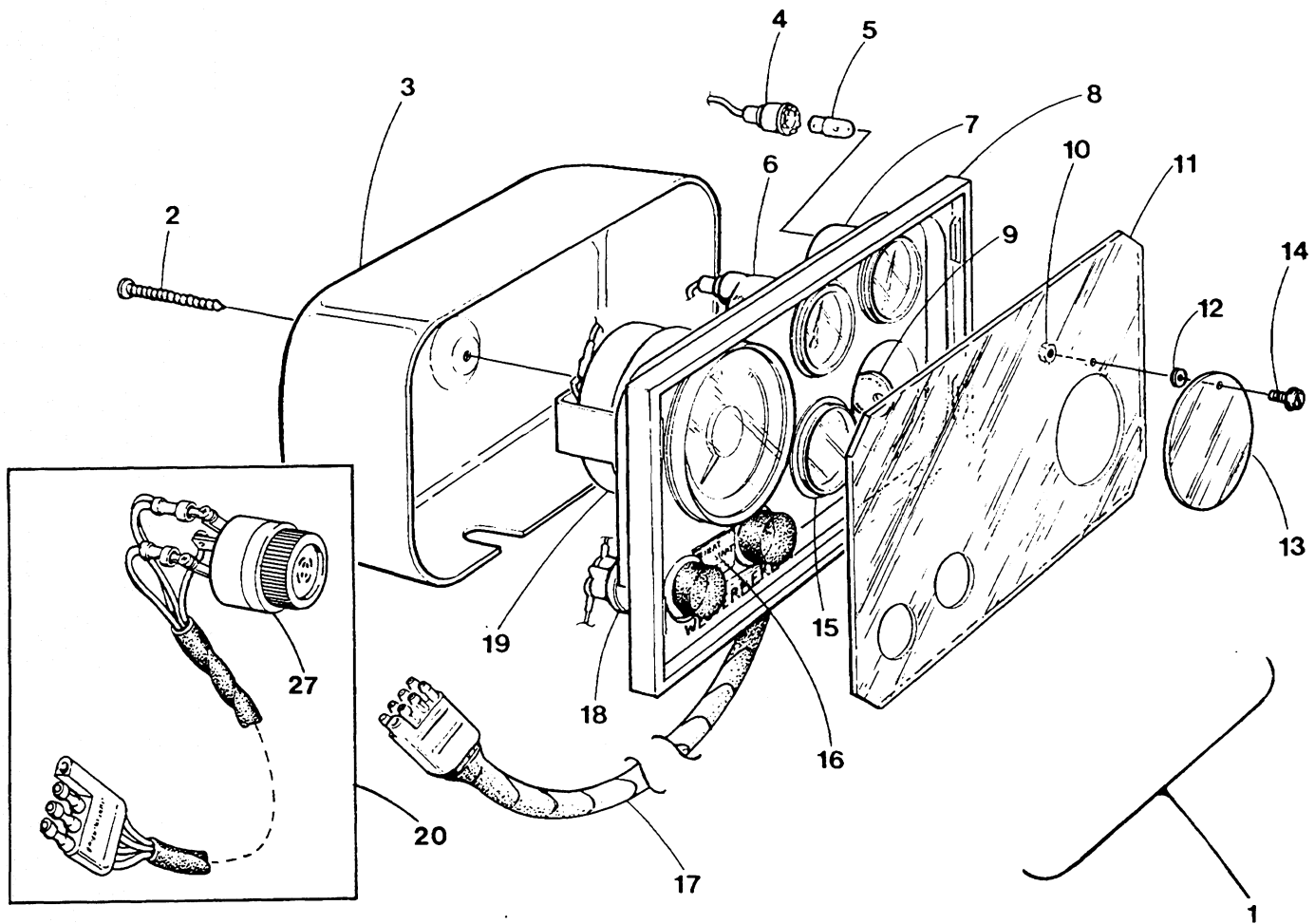
REF	PN	NAME	REMARKS	QUAN
1	039550	SWITCH	WATER TEMPERATURE	1
2	039790	ALTERNATOR	50 AMP 12 VDC INCLUDING REGULATOR	1
3	031904	NUT	10-24 KEPS	3
4-1	200120	NUT	1/4NC KEPS	1
4-2	031086	BOOT		1
5-1	035109	SENDER	WATER TEMPERATURE	1
5-2	011915	SENDER	WATER TEMPERATURE UNGROUNDED	1
6	031849	LOCKWASHER	10 SS	AR
7	031847	NUT	10-32 HEX SS	AR
8		SCREW	M 4 X 5	1
9	034472	BOOT	TERMINAL	2
10-1	015812	NUT	M 6 DIN 934	2
10-2	031783	LOCKWASHER	M 6 DIN 127	2
11-1	040369	SOLENOID	INTAKE HEATER 12 VDC	1
11-2	041064	SOLENOID	INTAKE HEATER 24 VDC	1
11-3	011489	SOLENOID	HEATER & GROUND 12 VDC UNGROUNDED SYSTEM	2
11-4	022249	SOLENOID	HEATER & GROUND 24 VDC UNGROUNDED SYSTEM	2
12	020628	CAPSCREW	M 6 X 25 DIN 933	2
13	031783	LOCKWASHER	M 6 DIN 127	2
14	031784	WASHER	M 6 DIN 125	2
15	033052	SPACER		2
16	013619	CAPSCREW	M 8 X 30 DIN 933	1
17	031786	LOCKWASHER	M 8 DIN 127	2
18	033381	SPACER		2
19	031866	SCREW	8-32 X 7/8 SS BINDING HEAD	2
20	031844	LOCKWASHER	8 SS	2
21	013630	CAPSCREW	M 8 X 25 DIN 933	1
22	040034	BRACKET	PREHEAT SOLENOID-CIRCUIT BREAKER	1
23	024683	BREAKER	CIRCUIT 20 AMP	1
24	031861	SCREW	8-32 X 1/4 SS BINDING HEAD	2
25-1	040368	HEATER	AIR INTAKE 12 VDC	1
25-2	041063	HEATER	AIR INTAKE 24 VDC	1
26	303107	BOOT	TERMINAL	1
27	031783	LOCKWASHER	M 6 DIN 127	1
28	015812	NUT	M 6 DIN 934	1
29-1	024132	SENDER	OIL PRESSURE 12 VDC 100 PSI	1
29-2	042161	SENDER	OIL PRESSURE 24 VDC 80 PSI	1
29-3	011916	SENDER	OIL PRESSURE 12 VDC UNGROUNDED 150 PSI	1
29-4	039848	SENDER	OIL PRESSURE 24 VDC UNGROUNDED 80 PSI	1
30	013340	ELBOW	1/8NPT STREET 90 BRASS	1
31	021885	SPACER		2
32	037323	SWITCH	OIL PRESSURE	1
33-1	031228	CAPSCREW	M10 X 1.25 X 30 DIN 961	2
33-2	019262	LOCKWASHER	M10 DIN 127	2
33-3	031789	WASHER	M10 DIN 125 TOP	1
34	032480	BRACKET	OIL PRESSURE SENDER & SWITCH TO FEB 2001	1
35	039608	HOSE	OIL	1
36	013736	CLAMP	SUPPORT HOSE	1
37	024844	ADAPTER	1/8BSPT TO 1/8NPT-HOSE TO BLOCK	1



WESTERBEKE 32.0 BEDA - ELECTRICAL SYSTEM

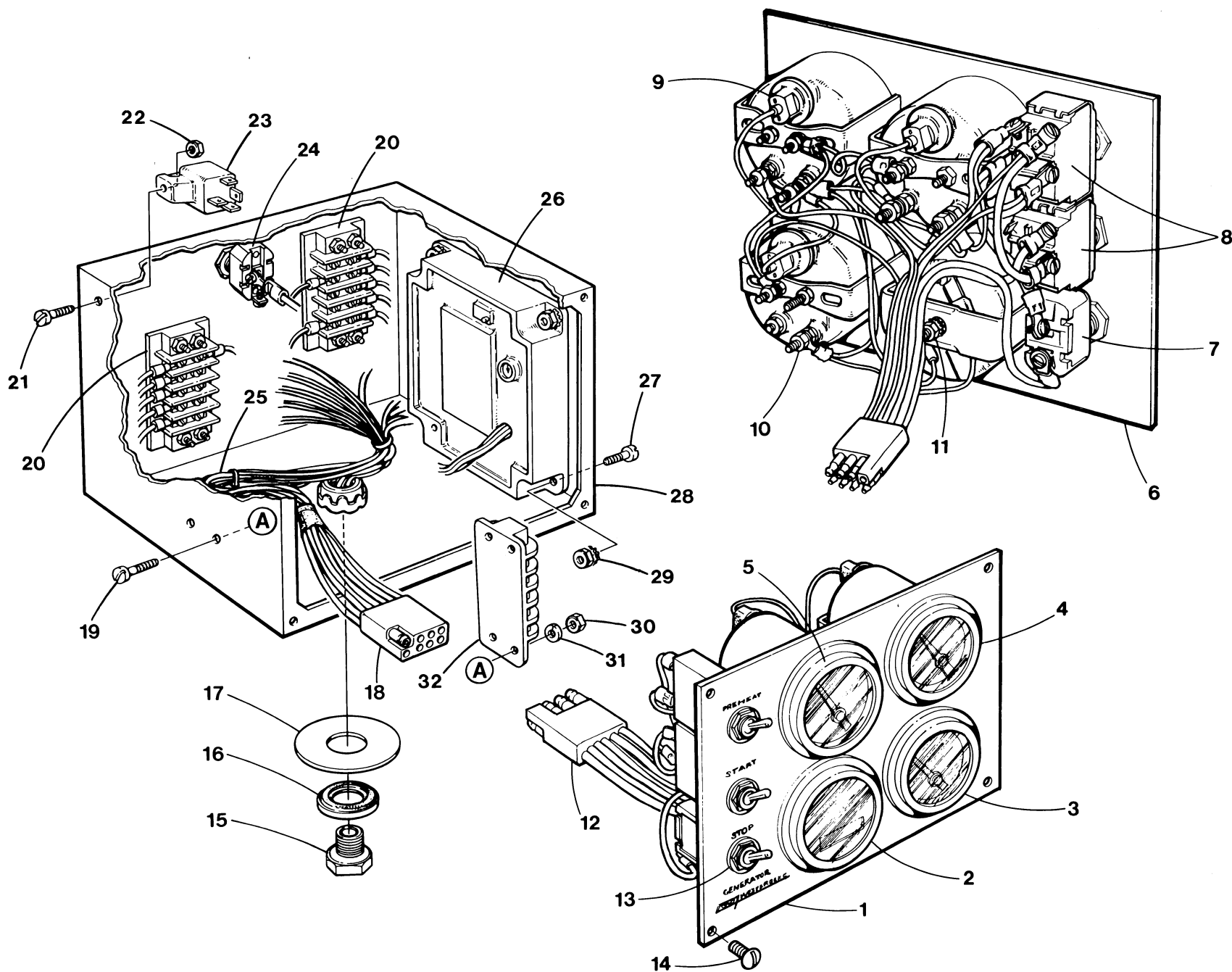
REF	PN	NAME	REMARKS	QUAN
38	039172	SENSOR	MAGNETIC	1
39-1	040426	HARNESS	GENSET INCLUDED IN PANEL-HARNESS ASSY	1
39-2	043803	HARNESS	GENSET UNGROUNDED SYSTEM	1
39-3	044766	HARNESS	GENSET WITH REMOTE CONNECTOR	1
40-1	023041	SOLENOID	FUEL SHUT-OFF 12 VDC	1
40-2	019348	SOLENOID	FUEL SHUT-OFF 24 VDC	1
41	031844	LOCKWASHER	8 SS	3
42	031861	SCREW	8-32 X 1/4 SS BINDING HEAD	3
43	039523	SOLENOID	STARTER MOTOR 38384 12 VDC	1
44	034575	LOCKWASHER	M10 DIN 127B BRONZE	1
45	032438	NUT	M10 DIN 439 BRASS	1
46	031780	LOCKWASHER	M 5 DIN 127	1
47	018241	NUT	M 5 DIN 934	1
48	031911	SCREW	8-32 X 1/4 BRASS	2
49	035711	SCREW	6-32 X 1/4 TAPPING	2
50	032923	SWITCH	EXHAUST TEMPERATURE	1
51	044845	BRACKET	OIL HEADER FEB 2001 ON	1
52	043902	HEADER	OIL FROM FEB 2001	1
53	031789	WASHER	M10 DIN 125	2
54	019262	LOCKWASHER	M10 DIN 127	2
55	018813	CAPSCREW	M10 X 20 DIN 933	2
56	015122	ELBOW	1/8NPT STREET 45	1
57-1	019369	PLUG	1/8NPT HEX HEAD BRASS	1
57-2	024523	PLUG	1/8NPT SOCKET	1
58	024953	CAPSCREW	M10 X 1.25 X 35 DIN 961	2
59	019262	LOCKWASHER	M10 DIN 127	2
60	011552	SWITCH	OIL PRESSURE NC - AUXILIARY	1
61-1	040425	DIAGRAM	GENSET WIRING	1
61-2	041486	DIAGRAM	GENSET WIRING UNGROUNDED SYSTEM	1
61-3	044737	DIAGRAM	GENSET WIRING WITH REMOTE CONNECTOR	1

WESTERBEKE 90A FOUR - PROPULSION INSTRUMENT PANELS



WESTERBEKE 90A FOUR - PROPULSION INSTRUMENT PANELS

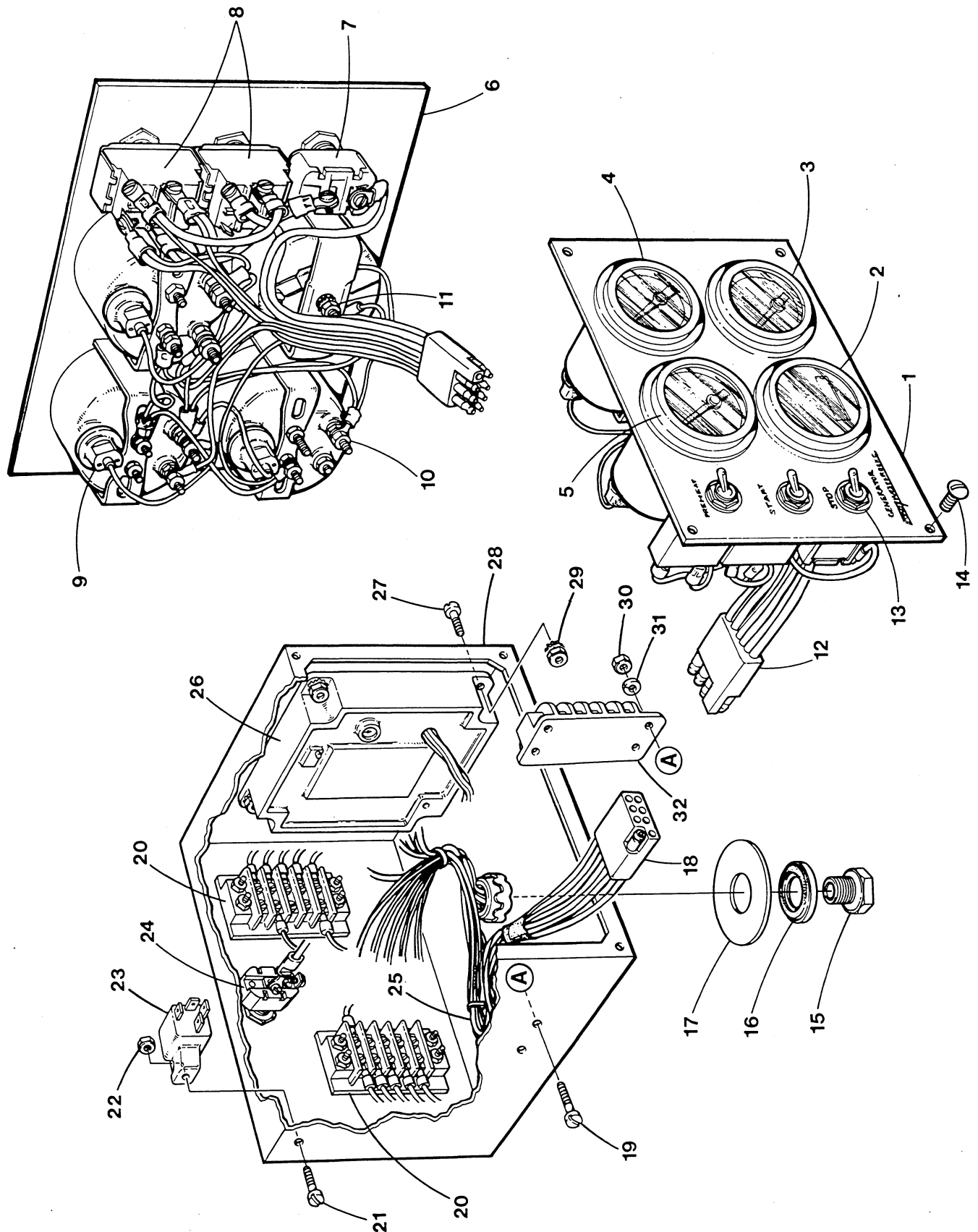
REF	PN	NAME	REMARKS	QUAN
1	036842	PANEL	ADMIRAL INCLUDING ALARM	1
2	030913	SCREW		1
3	030119	COVER	PANEL REAR	1
4		HOLDER	LAMP SEE REF 5	3
5	042893	LAMP	INCLUDING HOLDER 12 VDC	3
6	037601	METER	WATER TEMPERATURE	1
7	037603	METER	OIL PRESSURE 100 PSI	1
8	033865	PANEL	PLATE	1
9	033693	KEYSWITCH	OFF-ON	1
10	030003	NUT	NYLON LOCKING 6-32	1
11	033684	COVER	FACEPLATE	1
12	030002	SPACER	NYLON	1
13	024966	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	LAMP POWER CONNECTION	3
22	039144	DIAGRAM	ENGINE WIRING	1
23	036473	PANEL	CAPTAIN	1
24	036590	METER	TACHOMETER	1
25	036043	PANEL	PLATE	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



WESTERBEKE 32.0 BEDA - GENERATOR CONTROL PANEL

REF	PN	NAME	REMARKS	QUAN
1-1	036539	PANEL	GENSET CONTROL 12 VDC REF 2 THRU 13	1
1-2	042162	PANEL	GENSET CONTROL 24 VDC	1
1-3	039330	PANEL	GENSET CONTROL 12 VDC UNGROUNDED	1
1-4	039460	PANEL	GENSET CONTROL 24 VDC UNGROUNDED	1
2-1	036192	HOURLMETER		1
2-2	042159	HOURLMETER	PANEL 42162	1
3-1	037605	VOLTMETER	12 VDC	1
3-2	042156	VOLTMETER	24 VDC	1
4-1	037603	METER	OIL PRESSURE 12 VDC 100 PSI	1
4-2	042157	METER	OIL PRESSURE 24 VDC 80 PSI	1
4-3	011914	METER	OIL PRESSURE 12 VDC UNGROUNDED 150 PSI	1
4-4	039846	METER	OIL PRESSURE 24 VDC UNGROUNDED 80 PSI	1
5-1	037601	METER	WATER TEMPERATURE 12 VDC	1
5-2	042158	METER	WATER TEMPERATURE 24 VDC	1
5-3	011913	METER	WATER TEMPERATURE 12 VDC UNGROUNDED	1
5-4	039847	METER	WATER TEMPERATURE 24 VDC UNGROUNDED	1
6-1	034485	PANEL	PLATE	1
6-2	035303	COVER	BOX WHEN PANEL IS REMOTE MOUNTED	1
7	024731	SWITCH	STOP	1
8	024732	SWITCH	PREHEAT-START	2
9-1	042893	LAMP	INSTRUMENT WEDGE BASE 12 VDC W/HOLDER	3
9-2	035825	WIRE	LAMP POWER CONNECTION	3
9-3	045094	LAMP KIT	24 VDC	3
10-1	031897	NUT	8-32 BRASS	AR
10-2	031899	LOCKWASHER	8 BRONZE	AR
11-1	031842	NUT	8-32 HEX SS	5
11-2	031844	LOCKWASHER	8 SS	2
12	036538	HARNESS	PANEL	1
13-1	031999	LOCKRING	TOGGLE SWITCH MOUNT	3
13-2	038042	NUT	TOGGLE SWITCH	3
14	034421	SCREW	8-32 X 3/8 TRUSS HEAD BLACK SS	4
15	036464	NIPPLE	CHASE WITH BUSHING TO MARCH 2000	1
16	036492	RING	SEALING TO MARCH 2000	1
17	036837	WASHER	REDUCER TO MARCH 2000	1
18-1	040426	HARNESS	ENGINE	1
18-2	043803	HARNESS	ENGINE UNGROUNDED SYSTEM	1
19	031855	SCREW	6-32 X 5/8 SS BINDING HEAD	12
20-1	039928	BLOCK	TERMINAL 10 POSITION	2
20-2	039929	MARKER	TERMINAL BLOCK	2
20-3	015222	PLATE	SCREW-TERMINAL BLOCK	6
21	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	2
22	200125	NUT	10-32 KEPS	2
23-1	037833	RELAY	12 VDC	2
23-2	039858	RELAY	24 VDC	2
24-1	033259	SWITCH	EMERGENCY STOP	1
24-2	033258	BOOT	EMERGENCY STOP SWITCH	1
24-3	033251	LABEL	EMERGENCY STOP SWITCH	1

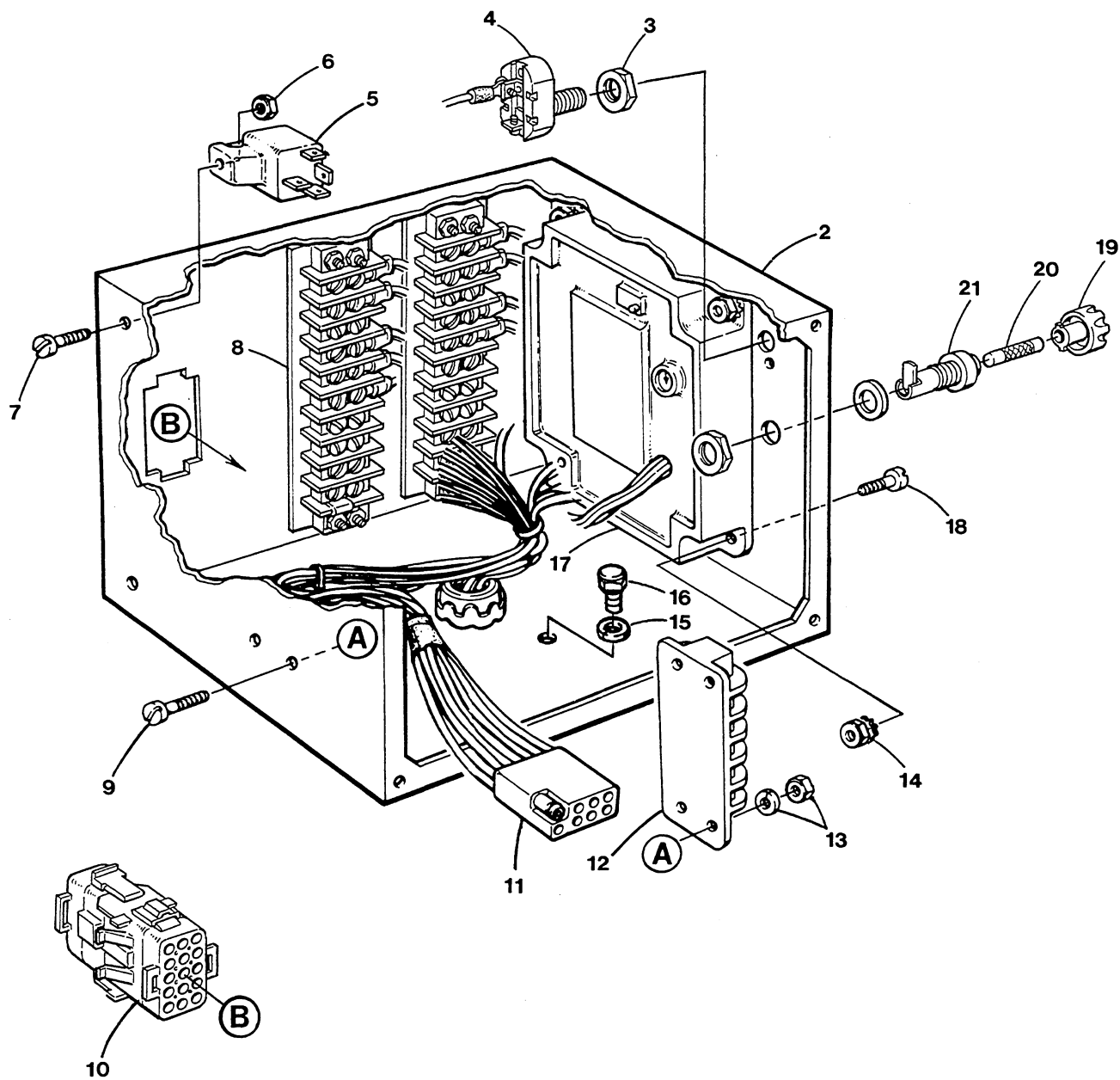
WESTERBEKE 32.0 BEDA - GENERATOR CONTROL PANEL



WESTERBEKE 32.0 BEDA - GENERATOR CONTROL PANEL

REF	PN	NAME	REMARKS	QUAN
25	036232	HARNESS	PANEL BOX	1
26-1	303008	CONTROLLER	GOVERNOR 12 VDC	1
26-2	039747	CONTROLLER	GOVERNOR 24 VDC	1
27	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	4
28-1	040226	ASSEMBLY	BOX AND HARNESS 12 VDC	1
28-2	043840	BOX	GENERATOR CONTROL PANEL	1
28-3	040185	COVER	PANEL BOX	1
28-4	041068	ASSEMBLY	BOX AND HARNESS 24 VDC	1
28-5	044123	ASSEMBLY	BOX AND HARNESS 12 VDC UNGROUNDED	1
28-6	046236	ASSEMBLY	BOX AND HARNESS 24 VDC UNGROUNDED	1
29	200125	NUT	10-32 KEPS	4
30	050234	NUT	6-32 KEPS	12
32-1	050201	BLOCK	TERMINAL	1
32-2	050374	MARKER	TERMINAL BLOCK	1
33	024968	DECAL	GENSET OPERATING INSTRUCTIONS	1
34	041081	DIODE		1
35	045098	SUPPRESSOR	TRANSIENT	1

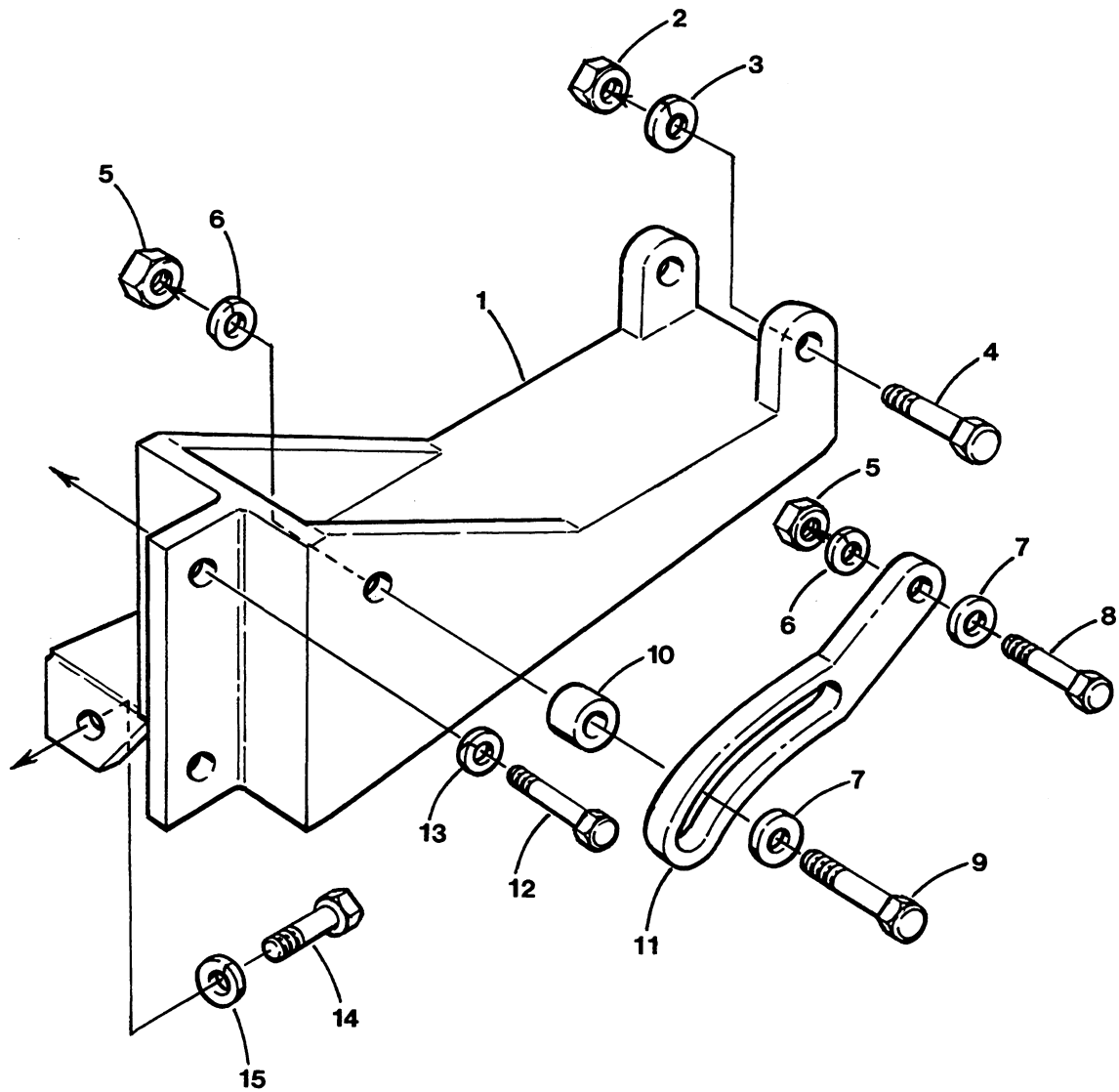
WESTERBEKE 32.0 BEDA - GENERATOR CONTROL PANEL WITH REMOTE CONNECTOR



WESTERBEKE 32.0 BEDA - GENERATOR CONTROL PANEL WITH REMOTE CONNECTOR

REF	PN	NAME	REMARKS	QUAN
1-1	044620	ASSEMBLY	BOX & HARNESS 12 VDC	1
1-2	044765	ASSEMBLY	BOX & HARNESS 24 VDC	1
1-3	044820	ASSEMBLY	BOX & HARNESS 24 VDC VIKING	1
2-1	043840	BOX	GENSET CONTROL	1
2-2	040185	COVER	GENSET CONTROL BOX	1
3	038042	NUT	TOGGLE SWITCH	1
4	033259	SWITCH	EMERGENCY STOP	1
5-1	037833	RELAY	12 VDC	2
5-2	039858	RELAY	24 VDC	2
6	200125	NUT	10-32 KEPS	2
7	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	2
8-1	039928	BLOCK	TERMINAL 10 POSITION	2
8-2	039929	MARKER	TERMINAL BLOCK	2
8-3	015222	PLATE	SCREW-TERMINAL BLOCK	4
9-1	031855	SCREW	6-32 X 5/8 SS BINDING HEAD	11
9-2	031857	SCREW	6-32 X 7/8 SS BINDING HEAD	1
10-1	043746	CONNECTOR	REMOTE PANEL	1
10-2	043818	CONNECTOR	MALE JUMPER-IF NO REMOTE PANEL INSTALLED	1
11-1	043737	HARNESS	PANEL	1
11-2	044766	HARNESS	ENGINE	1
12-1	050201	BLOCK	TERMINAL	1
12-2	050374	MARKER	TERMINAL BLOCK	1
12-3	015222	PLATE	SCREW-TERMINAL BLOCK	2
13	050234	NUT	6-32 KEPS	12
14	200125	NUT	10-32 KEPS	4
15	031783	LOCKWASHER	M 6 DIN 127	4
16	017012	CAPSCREW	M 6 X 16 DIN 933	4
17-1	303008	CONTROLLER	GOVERNOR 12 VDC	1
17-2	039747	CONTROLLER	GOVERNOR 24 VDC	1
18	031872	SCREW	10-32 X 1/2 SS BINDING HEAD	4
19		CAP	SEE REF 21	1
20	033769	FUSE		1
21	043747	HOLDER	FUSE INCL NUT & CAP	1
22	041081	DIODE		1
23-1	045098	SUPPRESSOR	TRANSIENT 12 VDC	1
23-2	045099	SUPPRESSOR	TRANSIENT 24 VDC	1

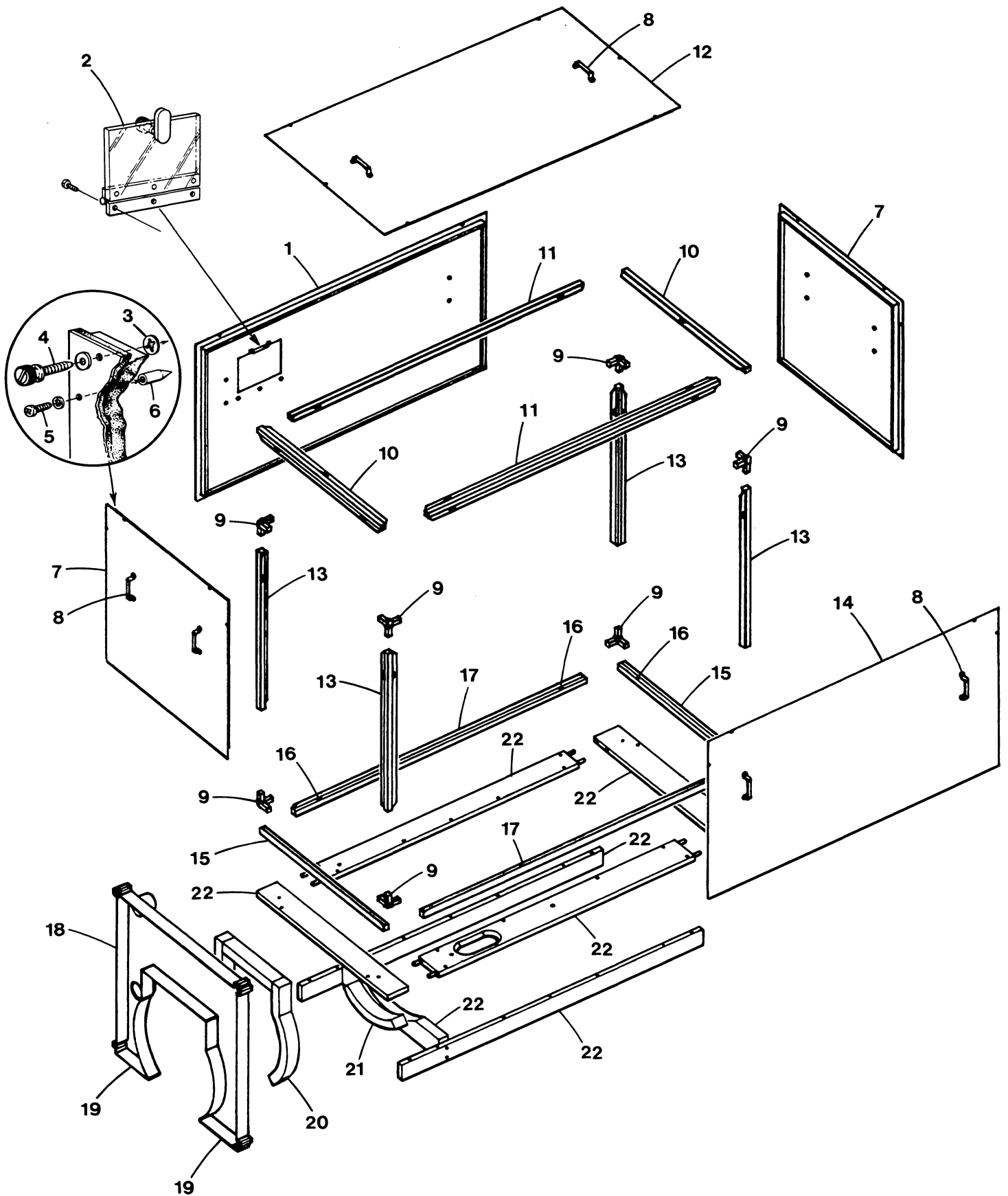
WESTERBEKE 90A FOUR - COMPRESSOR MOUNTING BRACKET



WESTERBEKE 90A FOUR - COMPRESSOR MOUNTING BRACKET

REF	PN	NAME	REMARKS	QUAN
1	041046	BRACKET	COMPRESSOR	1
2	031768	NUT	7/16NC	2
3	031770	LOCKWASHER	7/16	2
4	031658	CAPSCREW	7/16NC X 1-3/4	2
5	031762	NUT	3/8NC	2
6	031764	LOCKWASHER	3/8	2
7	031765	WASHER	3/8 FLAT	2
8	031607	CAPSCREW	3/8NC X 1-1/2	1
9	031606	CAPSCREW	3/8NC X 1-1/4	1
10	021885	SPACER		1
11	040030	STRAP	ADJUSTING	1
12	031823	CAPSCREW	M10 X 1.25 X 80 DIN 961	2
13	019262	LOCKWASHER	M10 DIN 127	2
14	033347	CAPSCREW	M12 X 1.5 X 25 DIN 961	1
15	031792	LOCKWASHER	M12 DIN 127	1
16	011686	BELT	COMPRESSOR	2

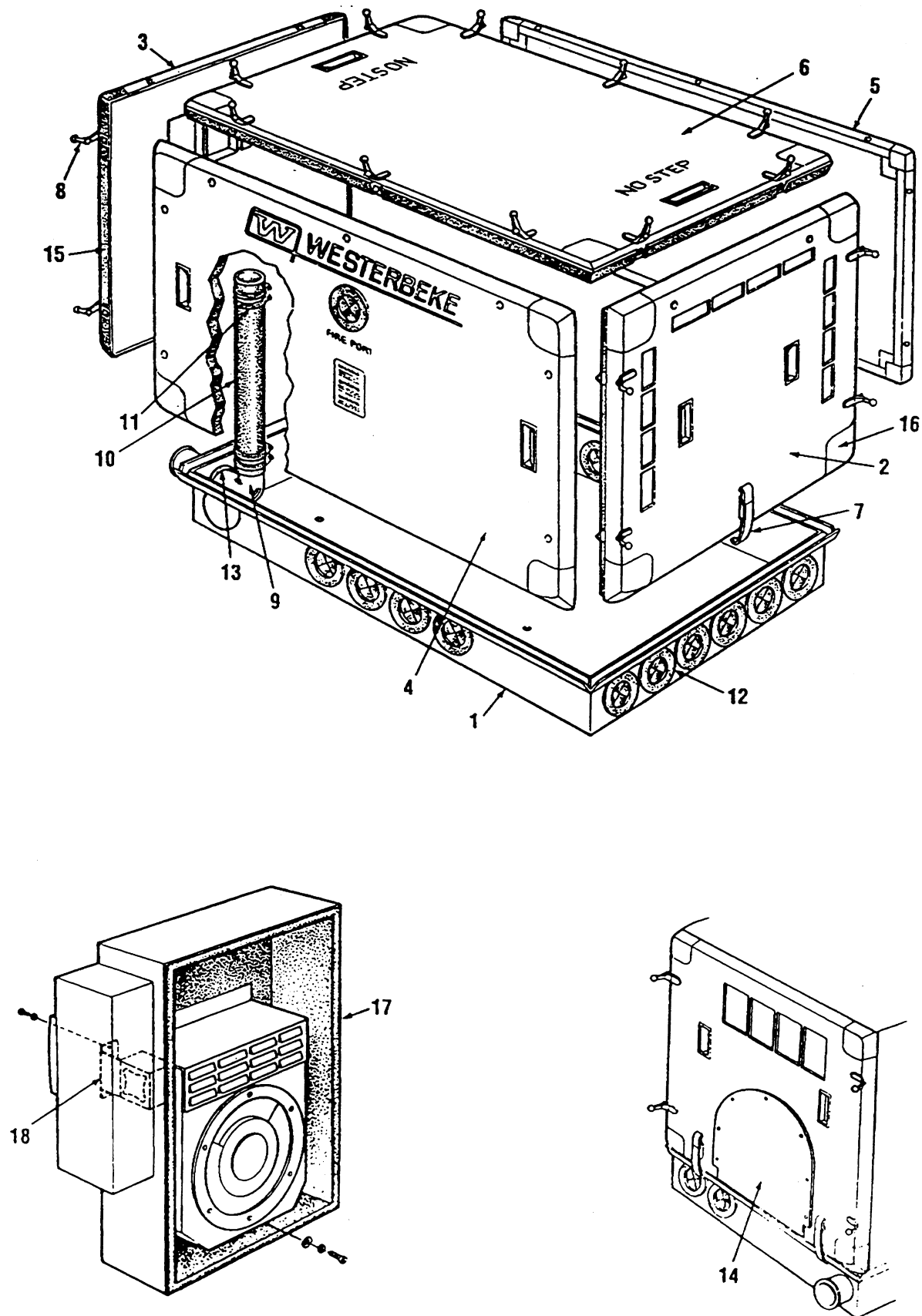
WESTERBEKE 32.0 BEDA - GENERATOR SOUND GUARD



WESTERBEKE 32.0 BEDA - GENERATOR SOUND GUARD

REF	PN	NAME	REMARKS	QUAN
1	041476	PANEL	SIDE WITH WINDOW	1
2	037417	WINDOW	ASSEMBLY	1
3	030896	RETAINER	QUICK OPENING SCREW	AR
4	030895	SCREW	QUICK OPENING	AR
5	031940	SCREW	6-32 X 3/8 SEMS PHIL HEAD	AR
6	030775	GUIDE	PANEL ALIGNMENT	AR
7-1	041474	PANEL	FRONT AND REAR TO MAY 97	2
7-2	043708	PANEL	FRONT FROM MAY 97	1
7-3	042589	PANEL	REAR FROM MAY 97	1
8-1	035720	HANDLE		10
8-2	031937	SCREW	8-32 X 3/8 SEMS PHIL HEAD	20
9	024057	CORNER		8
10	039364	RAIL	END	2
11	039361	RAIL	SIDE	2
12	041477	PANEL	TOP	1
13	039365	POST	CORNER	4
14	041475	PANEL	SIDE	1
15	038969	SKIRT	END	2
16-1	039470	SCREW	10-32 X 1-3/4 SS BINDING HEAD	8
16-2	031848	WASHER	10 FLAT SS	8
16-3	031907	NUT	10-32 STOP SS	8
17	038968	SKIRT	SIDE	2
18	039356	AIR DAM		1
19-1	039471	SCREW	8 X 1/2 WOOD ROUND HEAD	2
19-2	031843	WASHER	8 FLAT SS	2
20	039408	FOAM	UPPER AIR SEAL - INCHES REQUIRED	48
21	039408	FOAM	LOWER AIR SEAL - INCHES REQUIRED	12
22-1	038967	BASE	ASSEMBLY TO MAY 97	1
22-2	042588	BASE	ASSEMBLY FROM MAY 97	1
23	039425	SCREW	8 X 1-3/4 WOOD FLAT HEAD SS	10
24	039426	SCREW	14 X 4 WOOD FLAT HEAD SS	8
25	030902	HOSE	2-1/2" ID AIR INTAKE - INCHES REQUIRED	25
26	022559	CLAMP	HOSE 40	2

WESTERBEKE 32.0 BEDA - GENERATOR SOUND GUARD WITH METAL BASE



WESTERBEKE 32.0 BEDA - GENERATOR SOUND GUARD WITH METAL BASE

REF	PN	NAME	REMARKS	QUAN
1	043536	BASE	ASSEMBLY	1
2	043537	PANEL	FRONT	1
3	043538	PANEL	REAR	1
4	043539	PANEL	SIDE RIGHT	1
5	043539	PANEL	SIDE LEFT	1
6	043540	PANEL	TOP	1
7	044080	CLASP		AR
8	043775	LATCH	NEOPRENE	AR
9	043676	ELBOW	EXHAUST OUTLET 3"	1
10	044639	HOSE	3" ID SOFT WALL - INCHES REQUIRED	24
11	011501	CLAMP	HOSE 48	4
12	039498	BUSHING	2.5" HOLE	16
13-1	043223	GROMMET	EXHAUST ELBOW 3"	2
13-2	045010	GROMMET	3.5" HOLE	1
14	043907	COVER	PTO INCLUDED IN REF 3	1
15	043248	GASKET	PANEL EDGE SEAL	AR
16	042638	CORNER	PANEL	AR
17	043541	AIR DAM	ASSEMBLY	1
18	043668	COVER	AIR DAM INCLUDED IN REF 17	1
19	042630	HANDLE		AR

WESTERBEKE 90A - 32.0 BEDA - MISCELLANEOUS

REF	PN	NAME	REMARKS	QUAN
1-1	042627	KIT A	SPARE PARTS PROPULSION	1
1-2	040387	KIT A	SPARE PARTS GENSET	1
2	040388	KIT B	SPARE PARTS EXTENDED CRUISING GEN & PROP	1
3	040385	GASKET SET	UPPER	1
4	040386	GASKET SET	COMPLETE	1
5	032974	FILTER	PRIMARY FUEL SEPARATOR	1
6	015010	STRAINER	SEA WATER	1
7	033327	VALVE	ANTI-SIPHON	1
8-1	013758	PAINT	RED AEROSOL SPRAY CAN	1
8-2	042307	PAINT	WHITE AEROSOL SPRAY CAN	1
9	020654	SPLITTER	ALTERNATOR OUTPUT	1
10-1	030760	HARNESS	15 FOOT PANEL EXTENSION 8 PIN	1
10-2	036557	HARNESS	15 FOOT PANEL EXTENSION 4 PIN	1
10-3	044347	HARNESS	15 FOOT EXTENSION REMOTE CONNECTOR	1
11	032973	FILTER KIT	REMOTE LUBE OIL	1
12	040390	KIT	FUEL HARDWARE	1
13-1	043502	MANUAL	OPERATOR PROPULSION	1
13-2	039685	MANUAL	OPERATOR GENSET	1
14	043750	MANUAL	SERVICE	1
15	044642	MUFFLER	HYDRO-HUSH FIBREGLASS	1
16	024177	KIT	REMOTE FRESH WATER SURGE TANK	1

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011371	125	7-1
011405	121	13
011405	125	1
011405	141	6
011405	143	7
011405	145	6
011411	143	10
011411	145	2
011419	129	12
011471	121	23
011471	145	9
011489	163	11-3
011501	179	11
011548	127	29-4
011552	165	60
011618	139	37
011630	145	14-1
011631	145	14-2
011686	175	16
011779	121	14-1
011779	121	14-2
011779	125	2
011779	141	5
011779	143	6
011779	145	7
011885	121	20
011907	129	11
011913	169	5-3
011914	169	4-3
011915	163	5-2
011916	163	29-3
011917	167	19
011921	145	11
011944	115	6
011961	143	21-1
011961	145	32- 8
011962	143	21-2
011962	145	32- 9
011963	143	21-3
011963	145	32-10
011964	143	21-4
011964	145	32-11
013057	145	5
013325	141	20
013325	143	31
013325	145	24
013325	157	32
013330	143	3
013330	145	3
013330	145	10
013331	143	5
013338	145	4
013340	161	41
013340	163	30
013348	145	13-1
013348	145	13-2
013355	167	27

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013619	105	8
013619	121	28
013619	127	35
013619	131	1-2
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013629	149	17
013629	151	38
013630	115	24
013630	131	1-1
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013630	157	44
013630	163	21
013631	139	23
013631	149	3
013736	161	45
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013741	125	3
013758	180	8-1
013810	125	8-1
013870	141	19
013870	143	32
013870	145	25
013870	157	33
013919	141	29
014774	129	5
014776	137	11
015010	180	6
015102	137	3
015122	165	56
015222	169	20-3
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015222	173	12-3
015225	157	22
015232	157	25
015239	147	26
015289	135	41
015534	157	24
015812	151	44
015812	157	12
015812	161	14-1
015812	161	29
015812	161	39
015812	163	10-1
015812	163	28
015830	103	28
015830	121	29
015831	101	19
015831	103	38
015831	109	6
015831	121	4
015887	123	5
015887	139	9
015887	151	54
017012	113	38-1
017012	157	17
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018143	129	14
018144	129	21
018145	129	6
018146	129	22
018147	129	2
018148	129	17
018149	129	16
018151	129	9
018152	129	10
018153	129	13
018154	129	7
018164	129	18
018180	129	4
018241	161	33
018241	165	47
018242	115	20
018242	119	13
018242	121	1
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018242	139	4
018804	119	18
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019262	113	58
019262	123	4
019262	125	15
019262	139	6
019262	139	10
019262	139	18
019262	139	20
019262	139	22
019262	139	25
019262	139	35
019262	141	2
019262	141	12
019262	143	11
019262	147	2
019262	147	22
019262	149	4
019262	149	7
019262	149	16
019262	149	18
019262	149	24
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019321	121	33
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019369	119	23-1
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019369	121	22
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019369	165	57-1
019442	137	5
020272	155	14
020273	155	15
020274	155	13
020628	109	37-1
020628	161	10
020628	163	12
020650	141	23
020654	180	9
021122	119	39
021566	125	20-10
021611	125	20-11
021885	161	24
021885	163	31
021885	175	10
022114	145	12-1
022205	119	27
022249	163	11-4
022392	125	10
022392	129	20
022559	177	26
022850	121	34-1
022851	121	32-1
022852	121	35
023041	157	18-1
023041	165	40-1
023413	125	21
023413	157	42
023467	145	17
023476	157	23
023567	143	4
023567	145	12-2
023609	143	21-5
023609	145	32-12
023651	141	15-1
023651	145	33-1
023652	141	15-2
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024057	177	9
024132	161	42
024132	163	29-1
024177	180	16
024306	119	8
024373	101	8
024373	103	27
024374	101	7
024374	103	26
024374	103	41
024378	103	24
024379	101	15
024393	101	16
024445	107	40
024446	107	39
024470	117	9
024498	111	30
024503	117	28
024523	113	60
024523	165	57-2
024633	133	34
024634	135	42
024637	119	5
024672	119	29
024673	157	40
024674	147	8
024683	161	22
024683	163	23
024690	119	26
024701	147	9
024701	147	24
024704	119	3
024731	169	7
024732	169	8
024778	139	38
024786	119	4
024836	151	46-3
024844	161	47
024844	163	37
024858	119	2
024905	113	56
024906	119	6
024907	119	7
024922	113	55
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024950	141	11
024953	139	17
024953	147	3
024953	149	15
024953	165	58

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024977	119	1
024984	117	25
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024984	133	21
024984	135	38
030001	167	14
030002	167	12
030003	167	10
030119	167	3
030125	119	43
030125	161	1
030131	103	36
030146	149	28
030148	167	17
030167	115	13
030168	127	30
030289	119	38
030289	137	15
030291	113	50
030711	101	10
030711	103	37
030712	101	11
030735	125	20- 2
030760	180	10-1
030775	177	6
030848	113	51
030895	177	4
030896	177	3
030902	177	25
030913	167	2
030946	167	28
030966	107	27
030985	103	14
031014	107	35
031015	107	36
031083	113	59
031083	125	14
031083	139	5
031083	139	26
031083	147	4
031083	147	23
031083	161	28
031086	161	8
031086	163	4-2
031110	127	28-3
031110	131	3-2
031145	115	14
031152	125	8-2
031154	101	14
031154	139	7
031168	127	29-3
031223	139	12
031223	149	10
031228	141	14
031228	161	40
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031506	137	4
031551	137	16
031555	125	24
031557	147	27
031559	147	16
031603	143	23
031606	175	9
031607	175	8
031624	125	17-2
031631	125	11
031655	145	31
031656	141	27
031656	143	14
031658	175	4
031665	145	16
031682	143	20
031714	147	5
031718	147	28
031724	125	17-1
031752	121	18
031752	141	26
031752	143	27
031752	145	21
031752	157	26-2
031753	113	38-3
031753	121	17
031754	141	25
031754	143	28
031754	145	20
031754	157	26-1
031758	125	23
031762	175	5
031764	125	12-1
031764	125	18-2
031764	143	24
031764	175	6
031765	125	12-2
031765	175	7
031768	143	16
031768	145	19
031768	145	29
031768	175	2
031770	141	28
031770	143	13
031770	143	19
031770	145	15
031770	145	18
031770	145	30
031770	175	3
031772	143	18
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031776	125	18-1
031776	147	12
031777	147	6
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031783	151	45
031783	153	5
031783	157	11
031783	157	16
031783	161	11
031783	161	14-2
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031783	163	10-2
031783	163	13
031783	163	27
031783	173	15
031784	109	39
031784	119	20
031784	149	30
031784	153	6
031784	161	12
031784	163	14
031786	105	25
031786	115	17
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031786	119	14
031786	121	2
031786	121	27
031786	125	26-2
031786	127	34
031786	131	2
031786	139	3
031786	139	42-2
031786	141	10
031786	141	22
031786	155	10
031786	157	43
031786	159	9
031786	163	17
031787	105	26
031787	115	16
031787	119	15
031787	121	3
031787	121	26
031787	127	33
031787	139	42-3
031789	113	57
031789	139	19
031789	149	5
031789	149	8
031789	149	19
031789	151	36
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031792	139	29
031792	147	18
031792	175	15

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031797	139	11
031797	149	9
031801	157	7
031810	109	37-2
031812	155	9
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031814	139	2
031823	175	12
031842	169	11-1
031843	177	19-2
031844	161	21
031844	163	20
031844	165	41
031844	169	11-2
031847	141	16
031847	145	27
031847	157	10
031847	157	21
031847	157	36
031847	161	5
031847	163	7
031848	177	16-2
031849	141	17
031849	143	30
031849	145	26
031849	155	6
031849	157	9
031849	157	20
031849	157	31
031849	157	37
031849	159	2
031849	161	4
031849	161	18
031849	163	6
031855	169	19
031855	173	9-1
031857	173	9-2
031861	161	20
031861	163	24
031861	165	42
031866	163	19
031872	155	7-2
031872	161	19
031872	169	21
031872	171	27
031872	173	7
031872	173	18
031873	141	21
031873	143	29
031873	145	23
031873	157	19
031873	157	30
031875	157	6
031891	155	8
031897	169	10-1
031899	169	10-2

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031904	163	3
031907	177	16-3
031911	165	48
031914	151	48
031915	149	33
031917	153	9
031918	153	2
031931	151	49
031935	119	10
031937	177	8-2
031940	177	5
031999	169	13-1
032161	141	18
032183	129	3
032183	129	15
032270	161	26
032315	145	28
032384	107	7
032438	161	35
032438	165	45
032480	161	44
032480	163	34
032564	141	4-1
032565	141	4-2
032566	141	4-3
032635	101	21
032635	103	23
032642	101	23
032643	101	22
032654	111	1
032655	111	3
032659	105	5
032662	105	9
032663	105	10
032669	107	19
032671	107	23
032672	107	17
032682	107	9
032702	117	10
032740	103	17
032741	103	18
032804	101	20
032810	107	29
032881	105	23-1
032882	105	23-2
032903	105	17
032905	111	29
032907	117	12
032909	107	1
032916	139	31
032916	147	20
032923	145	32-13
032923	165	50
032973	180	11
032974	180	5
033052	163	15
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033299	121	34-2
033300	121	32-2
033327	180	7
033329	129	24
033347	175	14
033372	159	3
033381	125	22
033381	157	38
033381	163	18
033482	141	24
033482	143	26
033482	145	22
033530	147	7
033622	117	7
033641	107	38
033642	111	20
033642	115	10
033644	105	19
033644	109	2
033644	109	17
033644	131	7
033645	117	38
033647	107	32
033647	107	33
033647	109	7
033647	111	19
033648	109	5
033648	131	14
033649	109	21
033651	103	35
033651	135	53
033654	109	8
033654	109	31
033654	111	16
033654	117	13
033654	117	37
033654	135	50
033656	101	13
033656	111	31
033660	107	20
033661	103	20
033661	107	8
033668	109	20
033668	113	46
033668	115	9
033668	117	27
033668	131	8
033668	131	19
033668	131	22
033676	101	4
033676	109	9
033678	101	9
033682	167	16
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033769	173	20
033865	167	8
034119	101	3
034171	117	33
034172	103	19
034178	119	28
034421	169	14
034448	117	22
034448	117	29
034448	133	26
034448	137	2
034449	117	24
034449	133	18
034449	133	22
034449	133	24
034449	135	39
034449	135	46
034449	137	8
034470	139	21
034470	149	6
034472	161	15
034472	163	9
034477	109	30
034485	169	6-1
034565	117	26
034565	135	52
034567	119	37
034575	161	34
034575	165	44
034589	139	36
034590	143	12
034616	159	7
034713	147	29
034731	151	46-2
034922	125	20- 9
035109	119	30
035109	161	3
035109	163	5-1
035271	147	25
035303	169	6-2
035411	119	9
035711	165	49
035720	177	8-1
035747	121	7
035825	167	21
035825	169	9-2
036043	167	25
036121	143	8
036138	139	16
036138	149	14
036192	169	2-1
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036206	149	13
036211	103	10
036211	109	19
036211	109	25

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036211	111	23
036211	111	28
036211	135	44
036211	157	34
036232	171	25
036418	159	6
036464	151	40
036464	169	15
036473	167	23
036477	167	32
036479	167	26-1
036483	167	29-2
036490	167	26-2
036492	151	41
036492	169	16
036493	113	52
036538	169	12
036539	169	1-1
036544	167	33
036545	167	34
036557	180	10-2
036590	167	24
036614	121	10
036614	121	24-1
036614	125	4
036614	125	5-2
036614	141	8
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