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20CM (6A9)

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This Parts Catalogue is related to the parts in use for the Yamaha outboard motor 20CM'90 (6A9). When you are ordering replacement parts for the 20CM'90(6A9), refer to this Parts Catalogue and quote both part numbers and part names correctly.

1. Modifications or additions which have been made after issue of the Parts Catalogue will be announced in the Yamaha Parts News.
It is advisable that according to the Yamaha Parts News you make necessary corrections to the Parts Catalogue on hand to keep it up-to-date.

2. Abbreviations

The following abbreviations are used in this Parts Catalogue.

UR	Use size (thickness) and/or number as required.
UN	Use as many as you need.
AP	Alternate Parts
STD	Standard
O/S	Over Size

3. Parts, which are to be supplied in the form of assemblies, are listed with an indentation of one letter's space, and a dot (.) is put against the name of each part.

EXAMPLE

CARBURETOR ASS'Y

. JET, pilot

. NOZZLE, main

4. Indication of No. of constituent parts for assembly.

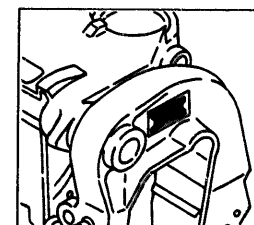
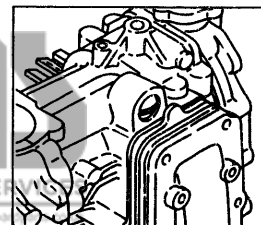
The numeral appearing to the right of each constituent part under the description indicates the quantity of such parts for each individual assembly unit.

EXAMPLE

Part No.	Description	Q'ty	Remarks
6E0-85500-70	C.D.I. MAGNETO ASS'Y	1	
6E0-85550-70	. ROTOR ASS'Y	1	
6E0-15723-00-94	. . PULLEY, starter	1	

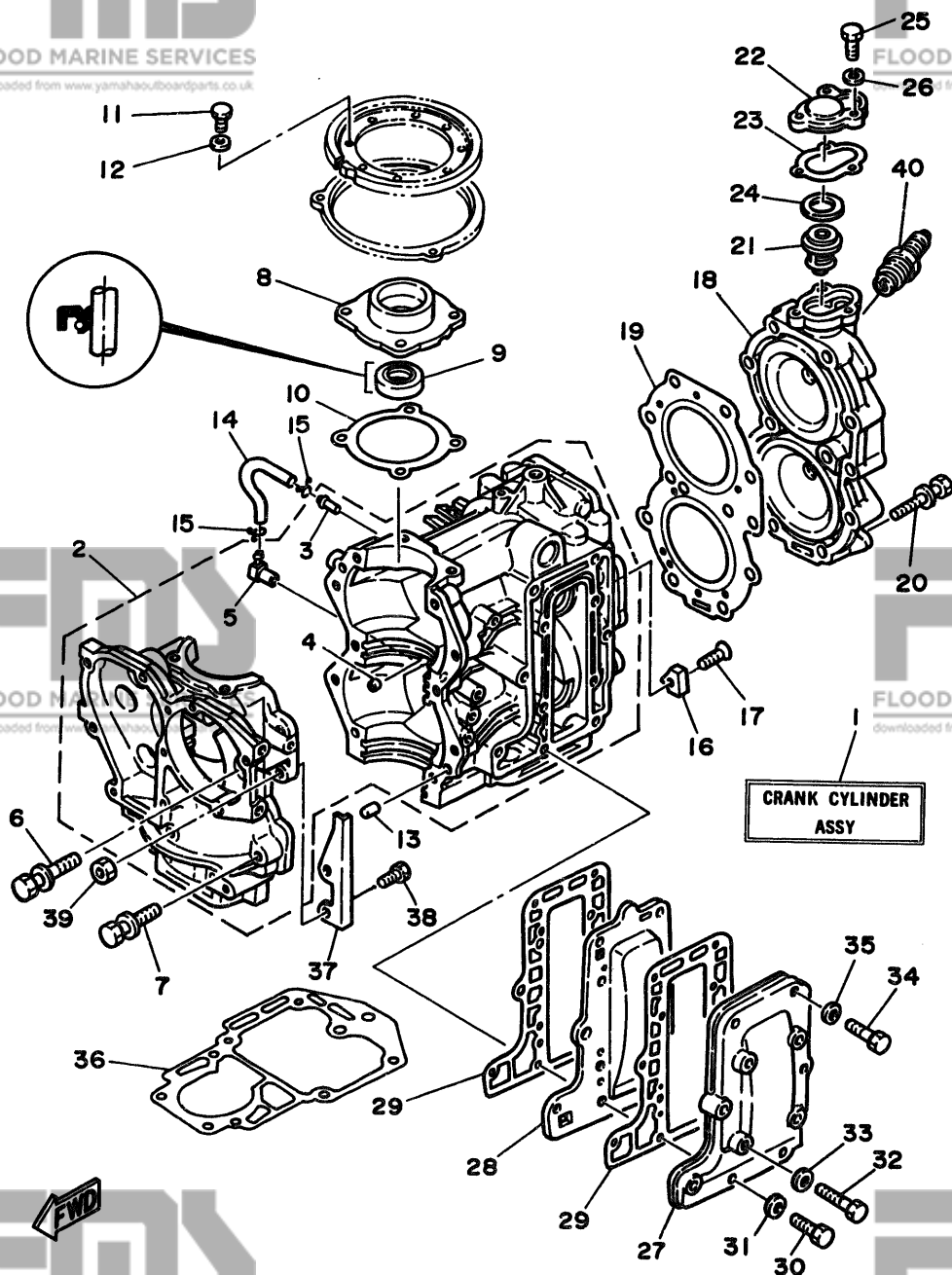
5. Initial Serial No. and Color Code

Engine Serial No.	20CM	S:016853 and following L:311098 and following



Color Code	Color Name	Abbreviate
1D	DARK BLUISH GRAY SOLID 1	DBGS 1

Fig. 1 CYLINDER. CRANKCASE



Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	6A9-W0090-82-1D	CRANK CYLINDER ASSY (Ref.No. 2 to 39 and Fig. 2, Ref.No. 1 to 27)	1	20	90119-08M18	BOLT, with washer	11
2	6A9-15100-01-94	CRANKCASE ASSY	1	21	6F5-12411-02	THERMOSTAT	1
3	624-14485-00	.PIPE, joint	1	22	655-12413-01-9M	COVER, thermostat	1
4	624-11379-00	.VALVE, check	1	23	655-12414-00	GASKET, cover	1
5	650-11370-00	.CHECK VALVE ASSY	1	24	90201-21567	WASHER, plate	1
6	90119-08M18	BOLT, with washer	2	25	97313-06020	BOLT	3
7	90119-08M20	BOLT, with washer	3	26	92990-06600	WASHER, plate	3
8	664-15359-01-94	HOUSING, oil seal	1	27	664-41113-00-94	OUTER COVER, exhaust	1
9	93102-23096	OIL SEAL	1	28	664-41111-00	INNER COVER, exhaust	1
10	664-15369-00	GASKET, oil seal housing	1	29	664-41114-00	GASKET, exhaust outer cover	2
11	97313-06020	BOLT	4	30	97395-06025	BOLT	1
12	92990-06600	WASHER, plate	4	31	92990-06600	WASHER, plate	1
13	93606-12019	PIN, dowel	2	32	97395-06030	BOLT	6
14	90445-07260	HOSE	1	33	92990-06600	WASHER, plate	6
15	90467-06016	CLIP	2	34	97395-06035	BOLT	4
16	689-11325-00	ANODE	1	35	92990-06600	WASHER, plate	4
17	98780-06020	SCREW, flat head	1	36	689-45113-01	GASKET, upper casing	1
18	6A9-11111-00-94	HEAD, cylinder 1	1	37	695-41616-00	STOPPER, magneto base	1
19	695-11181-00	GASKET, cylinder head 1	1	38	97313-06020	BOLT	2
				39	95303-06600	NUT	2
				40	94702-00272	PLUG, spark (NGK BR7HS)	2

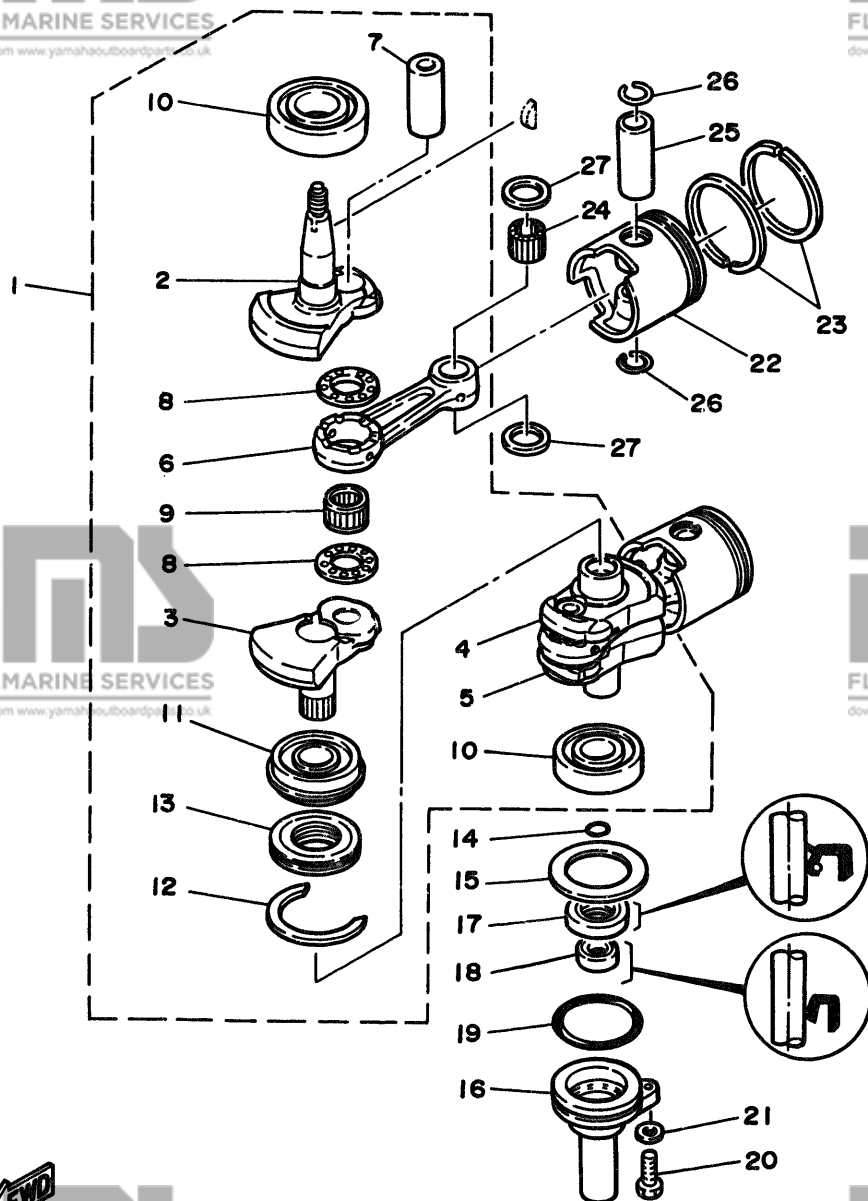


Fig. 2 CRANKSHAFT. PISTON

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	695-11400-00	CRANKSHAFT ASSY	1	17	93101-25M35	OIL SEAL	1
2	660-11412-10	.CRANK 1	1	18	93101-16M36	OIL SEAL	1
3	660-11422-00	.CRANK 2	1	19	93210-57M09	O-RING	1
4	660-11432-00	.CRANK 3	1	20	97395-06022	BOLT	1
5	695-11442-00	.CRANK 4	1	21	92990-06600	WASHER, plate	1
6	648-11651-03	.ROD, connecting	2	22	664-11631-80-97	PISTON (STD)	2
7	648-11681-00	.PIN, crank 1	2		664-11635-80	PISTON (0.25MM O/S)	2 AP
8	90209-22248	.WASHER	4		664-11636-80	PISTON (0.50MM O/S)	2 AP
9	93310-52240	.BEARING, cylindrical	2	23	664-11610-80	PISTON RING SET (STD)	2
10	93306-305U3	.BEARING	2		664-11610-40	PISTON RING SET (0.25MM O/S)	2 AP
11	93390-00009	.BEARING	1		664-11610-50	PISTON RING SET (0.50MM O/S)	2 AP
12	93440-62057	.CIRCLIP	1	24	93602-20M02	PIN, dowel	62
13	656-11515-00	.SEAL, labyrinth 1	1	25	648-11633-00	PIN, piston	2
14	93210-16275	O-RING	1	26	93450-20026	CIRCLIP	4
15	90201-50306	WASHER, plate	1	27	90201-18522	WASHER, plate	4
16	689-15396-01-5B	HOUSING, oil seal	1				



Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-13610-01	REED VALVE ASSY	1	28	661-41262-02	.JOINT, choke lever	1
2	689-W0004-00	.REED SET	1	29	648-W4121-00	.SHEAVE SHAFT, accel. link	1
3	648-13641-01-94	MANIFOLD 1	1	30	90386-05002	.BUSH	2
4	90116-06M30	BOLT, stud	2	31	95303-05700	.NUT	1
5	648-13621-00	GASKET, valve seat	1	32	92990-05100	.WASHER, spring	1
6	648-13645-00	GASKET, manifold 1	1	33	664-41231-00	.COLLAR, guide pin	1
7	97313-06025	BOLT	2	34	92990-05200	.WASHER, plain	1
8	92990-06600	WASHER, plate	2	35	93430-04031	.CIRCLIP	1
9	97013-06035	BOLT	7	36	646-14394-00	.VALVE, drain	1
10	92990-06600	WASHER, plate	7	37	646-14223-01	.SPRING, drain valve	1
11	6A9-14301-01	CARBURETOR ASSY 1	1	38	646-14397-00	.O-RING	1
12	664-14381-01	.BODY, float chamber	1	39	648-14198-00	GASKET	1
13	648-14384-01	.GASKET, float chamber	1	40	95380-06600	NUT	2
14	648-14385-00	.FLOAT	1	41	92990-06600	WASHER, plate	2
15	6E5-14386-01	.PIN, float	1	42	695-14417-00	COVER 1	1
16	98580-04012	.SCREW, pan head	4	43	695-14418-01	COVER 2	1
17	92990-04100	.WASHER, spring	4	44	98580-05530	SCREW, pan head	2
18	6A9-14341-00	.NOZZLE, main	1	45	92990-05600	WASHER, plate	2
19	689-14343-66	.JET, main (#132)	1	46	695-14476-00	SEAL	1
20	648-14390-14	.NEEDLE VALVE ASSY	1	47	682-41271-00	KNOB, choke	1
21	648-14342-31	.JET, pilot (# 62)	1	48	689-41273-00	GROMMET	1
22	98503-04014	.SCREW, pan head	1	49	689-41252-01	LEVER, choke	1
23	647-14323-00	.SCREW, air adjusting	1	50	91690-40048	PIN, spring	1
24	646-14212-01	.SPRING, pilot adjusting	2	51	695-41256-00	ROD, choke 1	1
25	648-41210-01	.ACCEL. ARM ASSY	1	52	661-41262-02	JOINT, choke lever	1
26	650-14327-00	.SCREW	1	53	90461-06M01	CLAMP	1
27	656-41241-00	.ROD, link	1				

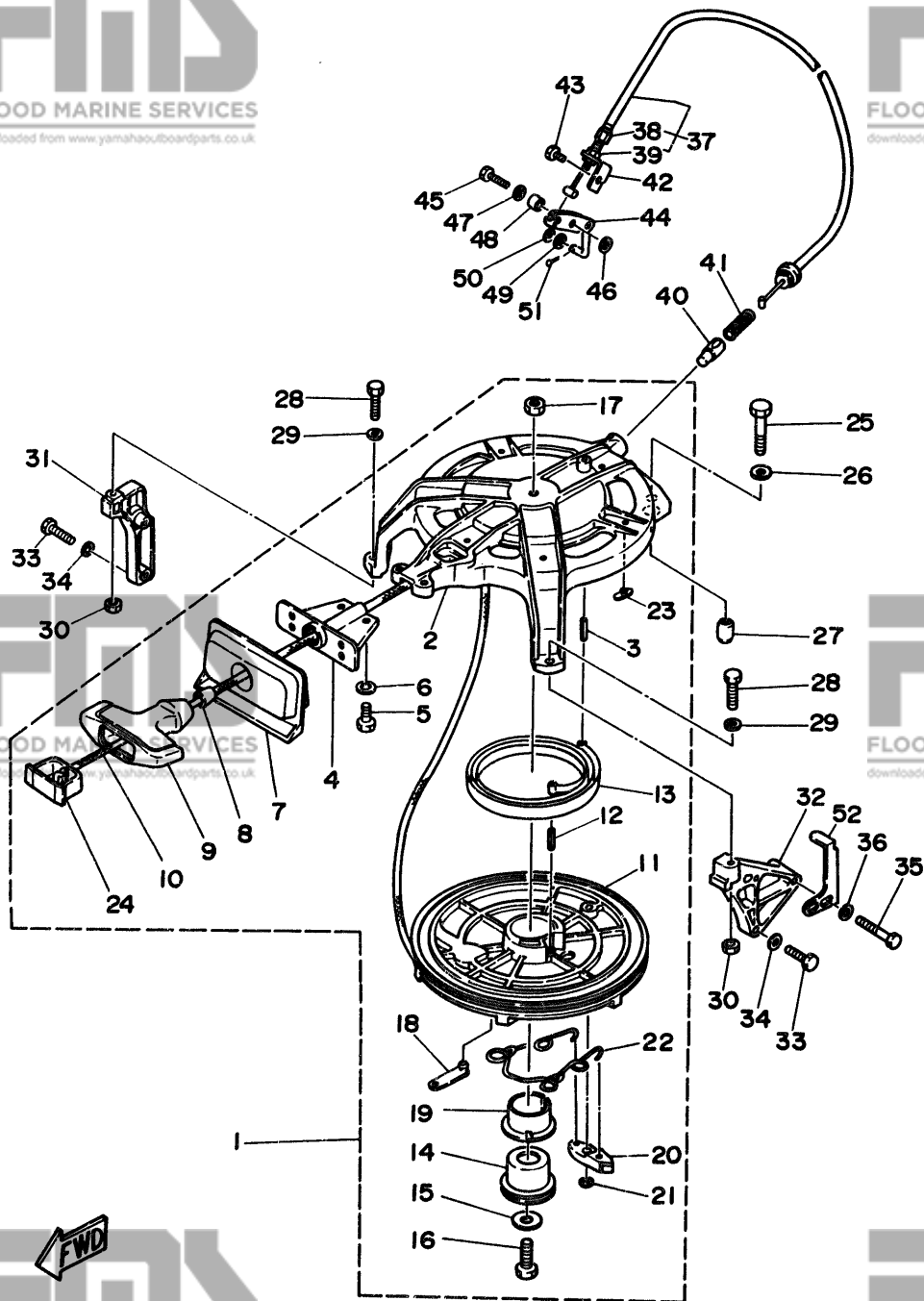


Fig. 1 STARTER

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-15710-03	STARTER ASSY	1	27	99510-12016	PIN, dowel	1
2	676-15711-00-94	CASE, starter	1	28	97395-06030	BOLT	2
3	91690-40020	.PIN, spring	2	29	92990-06600	WASHER, plate	2
4	689-15758-01-94	.GUIDE, rope	1	30	95303-06600	NUT	2
5	97395-06016	.BOLT	2	31	6H7-15771-01-94	STAY 1	1
6	92990-06600	.WASHER, plate	2	32	656-15772-00-94	STAY 2	1
7	689-15762-01	.SEAL, rubber 2	1	33	97313-06025	BOLT	4
8	689-15789-00	.DAMPER	1	34	92990-06600	WASHER, plate	4
9	689-15755-01	.HANDLE, starter	1	35	97313-06045	BOLT	1
10	*	.WIRE (L:2095MM)	1	36	92990-06600	WASHER, plate	1
11	676-15714-00-94	.DRUM, sheave	1	37	656-15770-00	CABLE COMP., starter stop	1
12	91690-40020	.PIN, spring	1	38	90123-06049	.BOLT	1
13	90510-09M00	.SPRING, spiral	1	39	95303-06600	.NUT	2
14	676-15717-00	.SHAFT, starter	1	40	656-15748-00	PLUNGER, starter stop	1
15	90201-08309	.WASHER, plate	1	41	90501-10227	SPRING, compression	1
16	97013-08025	.BOLT	1	42	689-15774-00	STAY 4	1
17	95303-08600	.NUT	1	43	97313-06010	BOLT	1
18	676-15799-01	.CLIP	1	44	656-15749-00	LINK, starter stop	1
19	90386-35M01	.BUSH	1	45	97313-06020	BOLT	1
20	676-15741-03	.PAWL, drive	1	46	92990-06600	WASHER, plate	1
21	93430-06M02	.CIRCLIP	1	47	90206-08010	WASHER, wave	1
22	676-15705-00	.SPRING, drive pawl	1	48	90387-06568	COLLAR	1
23	676-15773-00	.STAY 3	6	49	90206-05005	WASHER, wave	1
24	6F5-15779-02	.COVER	1	50	92990-05600	WASHER, plate	1
25	97090-08035	BOLT	1	51	91490-16010	PIN, cotter	1
26	92990-08600	WASHER, plate	1	52	689-81332-01	PLATE, timing	1

* Cut from 50m rolls, parts No. 90890-44373, cutting length 2.095m.

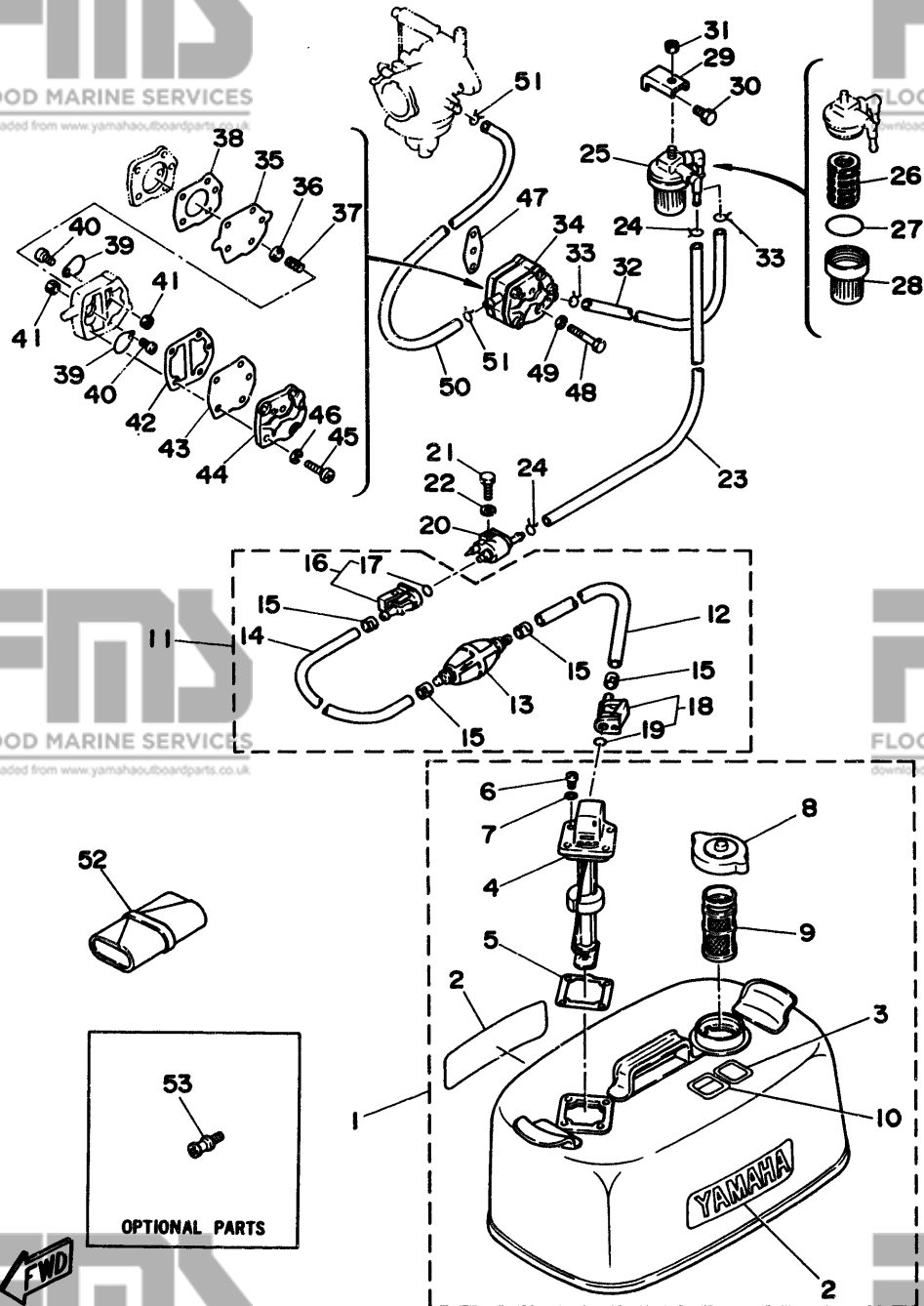


Fig. 5 FUEL

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	6Y1-W2420-62-24	FUEL TANK ASSY	1	28	655-24521-01	.CUP, filter	1
2	6Y1-24246-00	.GRAPHIC, side	2	29	648-24566-01	BRACKET, filter	1
3	6Y1-24257-00	.GRAPHIC	1	30	97013-06012	BOLT	1
4	6Y1-24260-02	.FUEL METER ASSY	1	31	95380-08600	NUT	1
5	6Y1-24268-00	.GASKET, fuel meter	1	32	664-24311-00	PIPE, fuel 1	1
6	98586-05016	.SCREW, pan head	4	33	90467-08004	CLIP	2
7	6Y1-24329-00	.SEAL	4	34	6A0-24410-04	FUEL PUMP ASSY	1
8	6Y1-24610-00	.CAP ASSY	1	35	648-24411-00	.DIAPHRAGM	1
9	6Y1-24167-00	.STRAINER	1	36	648-24424-00	.SEAT, spring	1
10	6Y1-24255-80	.GRAPHIC, fuel tank 8	1	37	648-24423-00	.SPRING, diaphragm	1
11	6Y1-24306-05	FUEL PIPE COMP. 1	1	38	648-24434-01	.GASKET, body	1
# 12	90445-11M06	.HOSE (L2050)	1	39	6A0-24421-01	.VALVE, check	2
13	6Y1-24360-02	.PRIMER PUMP ASSY	1	40	6A0-14325-00	.SCREW, pan head	2
# 14	90445-11M05	.HOSE (L850)	1	41	95380-03600	.NUT	2
15	650-24351-01	.BAND 1	4	42	648-24435-02	.GASKET, body 2	1
16	6G1-24305-00	.FUEL PIPE JOINT COMP. 2	1	43	663-24411-00	.DIAPHRAGM	1
17	93210-08287	.O-RING	1	44	648-24413-01	.BODY 2	1
18	6Y1-24305-01	.FUEL PIPE JOINT COMP. 2	1	45	98580-05530	.SCREW, pan head	3
19	93210-08287	.O-RING	1	46	92990-05100	.WASHER, spring	3
20	6G1-24304-02	FUEL PIPE JOINT COMP. 1	1	47	650-24431-00	GASKET, fuel pump 1	1
21	97395-06020	BOLT	1	48	97395-06040	BOLT	2
22	92990-06600	WASHER, plate	1	49	92990-06600	WASHER, plate	2
23	90445-09M25	HOSE	1	50	648-24312-01	PIPE 2	1
24	90467-08004	CLIP	2	51	90467-08004	CLIP	2
25	655-24560-01	FILTER ASSY	1	52	656-W2810-01	TOOL KIT	1
26	6F5-24563-00	.ELEMENT, filter	1	53	6E0-28193-00-94	PLUG, water check	1
27	93210-37M25	.O-RING	1				

Also available in 30m rolls. (Parts No. 90890-56878)

Fig. 6 TOP COWLING

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	6A9-42610-B0-1D	TOP COWLING ASSY	1	8	90266-04M01	.RIVET	3
2	689-42613-00-1D	.MOLDING, air duct	1	9	6G0-42651-02	.HOOK	1
3	97395-06012	.BOLT	4	10	90266-04M00	.RIVET	2
4	92990-06600	.WASHER, plate	4	11	695-42681-B0	.MARK, cowling	2
5	689-15761-00	.SEAL, rubber 1	1	12	6A9-W0070-B0	.GRAPHIC SET	1
6	6G0-42615-00	.SEAL	1	13	6A9-42677-B0	.GRAPHIC, front	1
7	689-42647-00	.HOLDER, clamp band	1	14	6A9-42678-B0	.GRAPHIC, rear	1

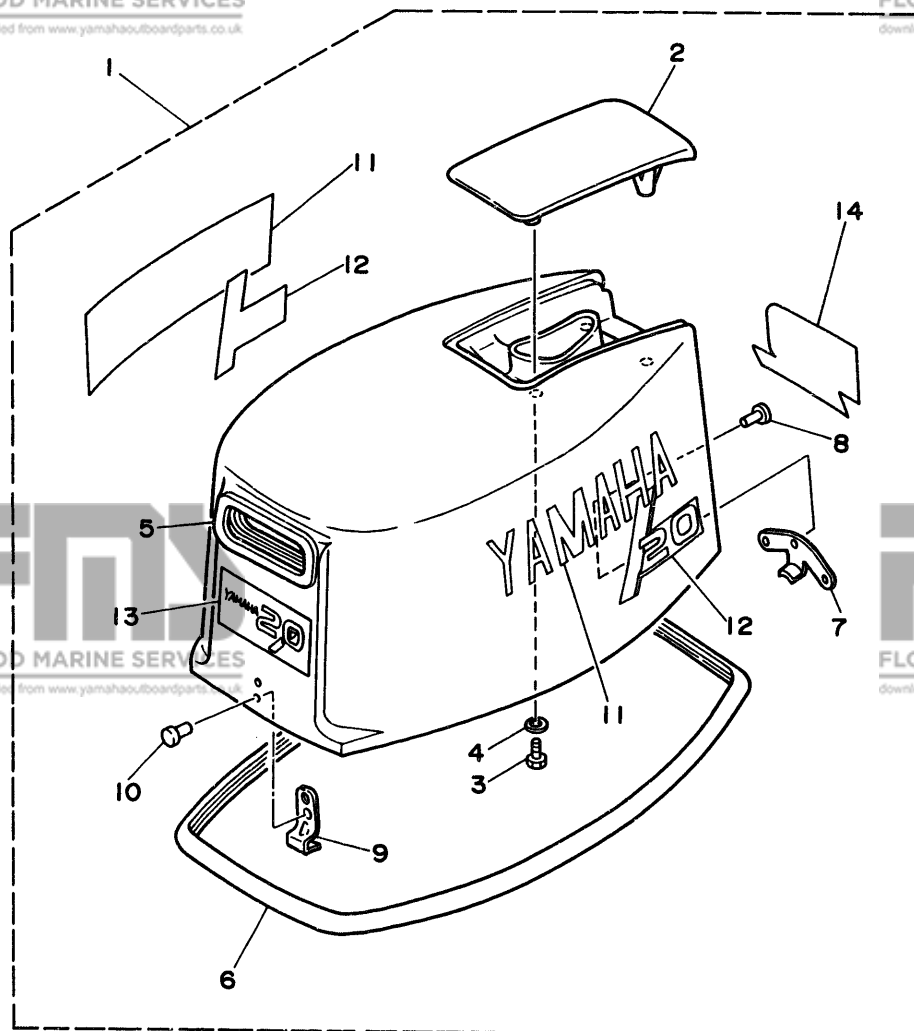


Fig. 7 BOTTOM COWLING

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-42711-01-10	COWLING, bottom	1	11	90386-12069	BUSH	2
2	90480-15M06	GROMMET	4	12	689-42816-00	LEVER, clamp	1
3	90387-08M25	COLLAR	4	13	90201-06M02	WASHER, plate	1
4	6G0-42796-00	BOLT 1	4	14	97313-06010	BOLT	1
5	95380-08700	NUT	4	15	689-42725-00	GROMMET	1
6	92990-08600	WASHER, plate	4	16	647-42523-00	SPACER, friction	1
7	95380-08700	NUT	4	17	689-82575-02	ENGINE STOP SWITCH ASSY	1
8	90201-08M87	WASHER, plate	4	18	682-82556-00	.STOPPER	1
9	689-42815-00	LEVER, clamp	1	19	682-84381-00	2P CONCENT	1
10	90206-12052	WASHER, wave	1				

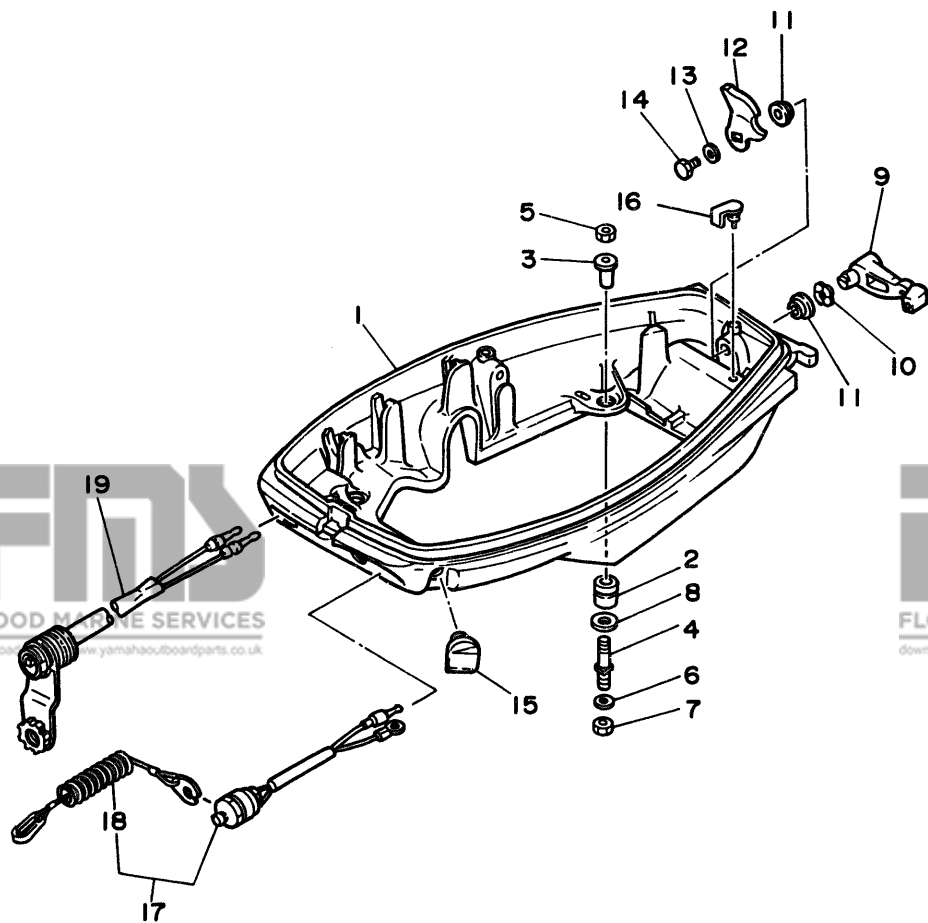
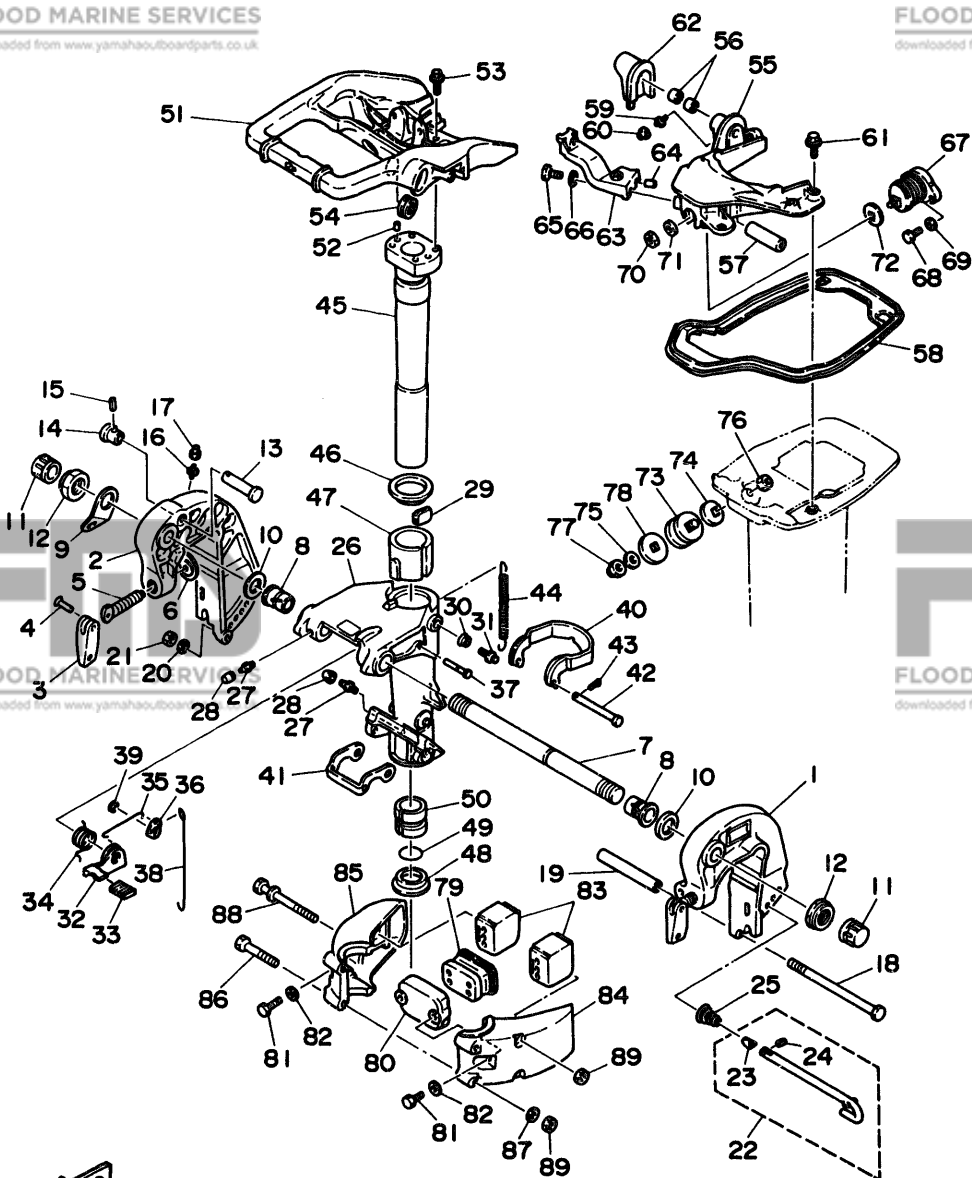


Fig. 8 BRACKET



Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-43111-02-1D	BRACKET, clamp	1	46	90209-47016	WASHER	1
2	689-43112-02-1D	BRACKET, clamp	1	47	90386-47M22	BUSH	1
3	616-43118-00-1D	HANDLE, transom clamp	2	48	90386-38022	BUSH	1
4	90243-04M00	PIN	2	49	93210-37160	O-RING	1
5	90149-14030	SCREW	2	50	90386-38090	BUSH	1
6	648-43114-01	PAD, transom clamp	2	51	689-42511-00-1D	BRACKET, steering	1
7	6J8-43131-01	BOLT, clamp bracket	1	52	93608-12063	PIN, dowel	2
8	90386-22M67	BUSH	2	53	90105-06M07	BOLT, washer based	4
9	6J8-43113-01	PLATE, clamp bracket	1	54	90480-29045	GROMMET	1
10	90201-22428	WASHER, plate	2	55	648-44518-01-58	BRACKET COMP.	1
11	663-43145-00	CAP, clamp bracket	2	56	90380-12012	BUSH, solid	2
12	90185-22043	NUT, self-locking	2	57	90387-10M39	COLLAR	1
13	689-43191-00	SHAFT, stopper	1	58	689-42716-00	RUBBER, seal 1	1
14	689-43192-01	KNOB, stopper	1	59	93700-06004	NIPPLE, grease	1
15	91690-30016	PIN, spring	1	60	663-45119-00	CAP, grease nipple	1
16	93700-06004	NIPPLE, grease	1	61	90105-06M08	BOLT, washer based	4
17	663-45119-00	CAP, grease nipple	1	62	689-42718-00	RUBBER, seal 3	1
18	90101-08339	BOLT	1	63	648-44519-00-94	BRACKET	1
19	90387-08M03	COLLAR	1	64	93606-12019	PIN, dowel	1
20	92990-08600	WASHER, plate	1	65	97395-06018	BOLT	1
21	95380-08600	NUT	1	66	92990-06600	WASHER, plate	1
22	682-43160-01	TILT ROD ASSY	1	67	689-44516-00	MOUNT DAMPER, upper front	1
23	656-43165-01	PLATE, tilt lock	1	68	97395-06020	BOLT	2
24	91690-30008	PIN, spring	1	69	92990-06600	WASHER, plate	2
25	90502-10M07	SPRING, conical	1	70	95380-10600	NUT	1
26	689-43311-03-1D	BRACKET, swivel	1	71	92990-10200	WASHER, plain	1
27	93700-06004	NIPPLE, grease	3	72	648-44591-00	GASKET	1
28	663-45119-00	CAP, grease nipple	3	73	664-44514-00-94	MOUNT DAMPER, upper side	2
29	648-42528-00	PLATE, friction	1	74	648-44591-00	GASKET	2
30	689-43373-01	SEAL, damper	1	75	92990-10200	WASHER, plain	2
31	90105-06M18	BOLT, washer based	1	76	95380-10600	NUT	2
32	689-43631-00	LEVER, tilt	1	77	95380-10800	NUT, crown	2
33	689-43633-00	COVER, tilt lever	1	78	664-44591-00	GASKET	2
34	689-43643-00	SPRING	1	79	689-44557-00	MOUNT DAMPER, lower front	1
35	689-43616-00	ROD, tilt lock	1	80	689-44553-00-94	COVER, lower mount	1
36	648-43642-00	LEVER, tilt 1	1	81	97395-08025	BOLT	2
37	90249-06M22	PIN	1	82	92990-08600	WASHER, plate	2
38	648-43617-00	ROD, tilt lock	1	83	689-44555-00	MOUNT DAMPER, lower side	2
39	99080-05600	CIRCLIP	1	84	689-44551-00-1D	HOUSING, lower mount rubber	1
40	689-43614-00	PLATE, tilt lock	1	85	689-44552-00-1D	HOUSING, lower mount rubber	1
41	648-43615-00	PLATE, tilt lock	1	86	97395-08065	BOLT	2
42	90240-05046	PIN, clevis	1	87	92990-08600	WASHER, plate	2
43	91490-16010	PIN, cotter	1	88	90119-08M03	BOLT, with washer	2
44	90506-30M27	SPRING, tension	1	89	95380-08600	NUT	4
45	689-42521-00-94	SHAFT, steering pivot	1				

**HANDLE STEERING
ASSY**

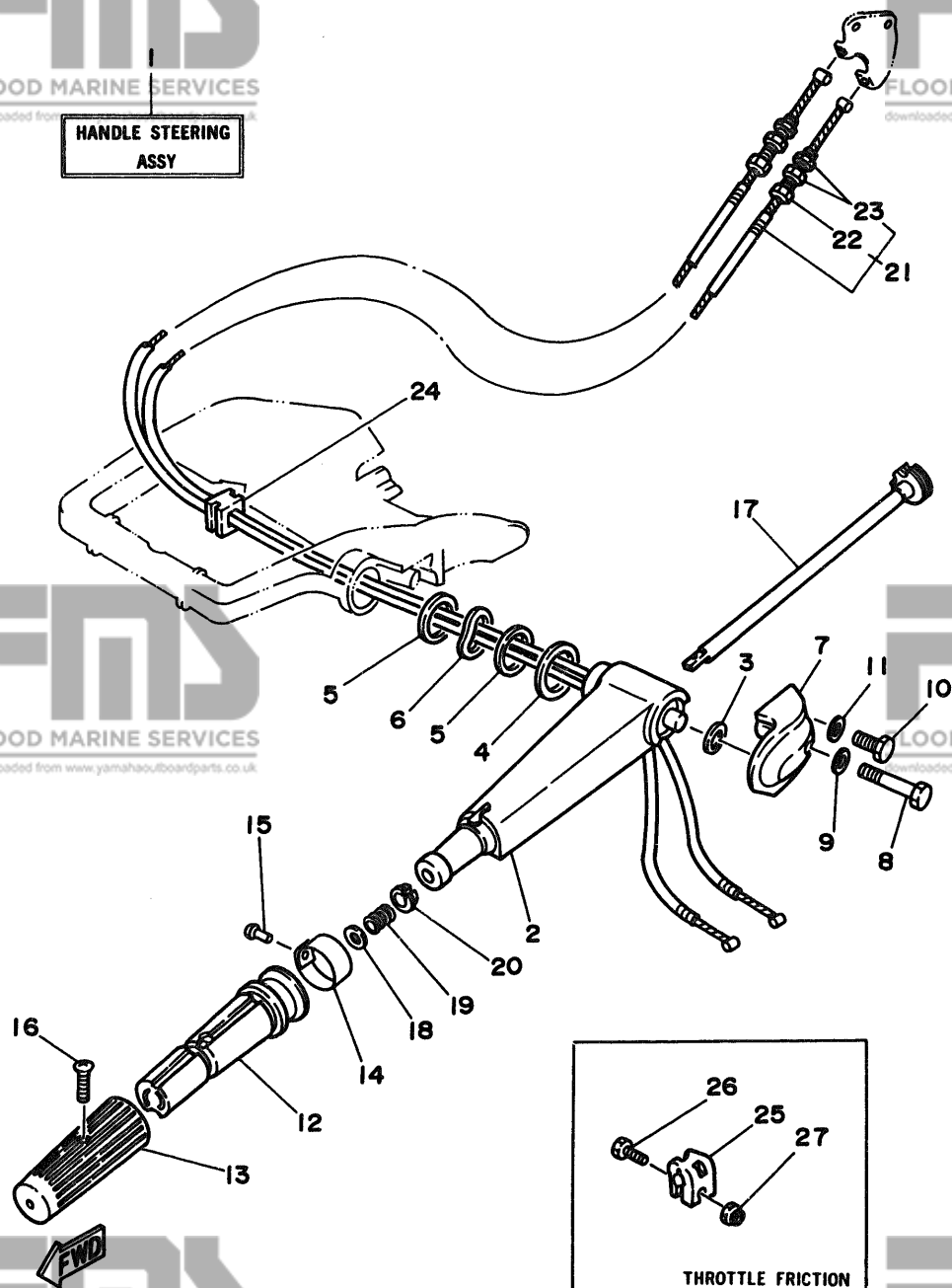


Fig. 9 STEERING

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	6A9-W0084-00-1D	HANDLE STEERING ASSY (Ref.No. 2 to 24)	1	14	6A9-42137-01	INDICATOR, throttle	1
2	689-42111-00-1D	HANDLE, steering	1	15	90269-02M09	RIVET	1
3	90560-14076	SPACER	1	16	90149-05M06	SCREW	1
4	90202-34043	WASHER, plate	1	17	689-42138-00	LEVER, throttle	1
5	90201-28M00	WASHER, plate	1	18	92990-10600	WASHER, plate	1
6	90206-28M07	WASHER, wave	1	19	90501-23215	SPRING, compression	1
7	689-42112-00-1D	HANDLE, steering	1	20	90386-08032	BUSH	1
8	97395-06050	BOLT	1	21	689-26311-03	CABLE, throttle 1	2
9	92990-06600	WASHER, plate	1	22	90123-06M00	.BOLT	1
10	97395-06020	BOLT	1	23	90170-06183	.NUT	2
11	92990-06600	WASHER, plate	1	24	90480-12156	GROMMET	1
12	664-42119-00	GRIP, steering handle	1	25	656-42126-01	FRICTION, steering handle grip	1
13	6G1-42177-00	RUBBER, handle	1	26	97395-06020	BOLT	1
				27	90185-06062	NUT, self-locking	1

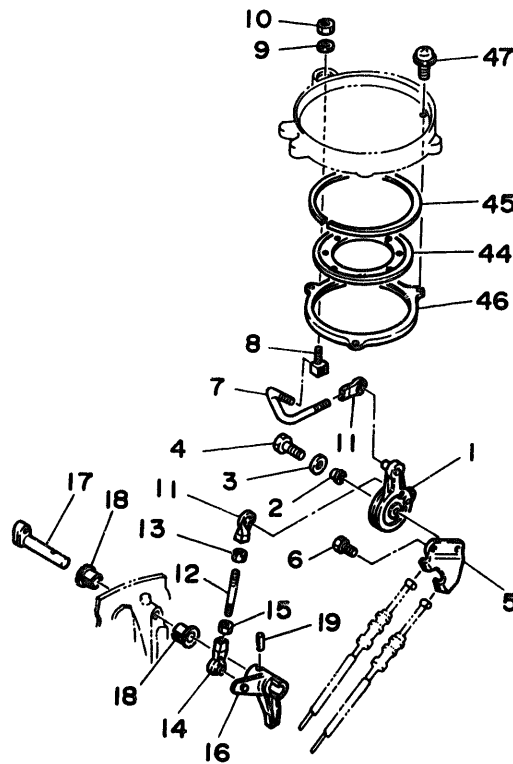
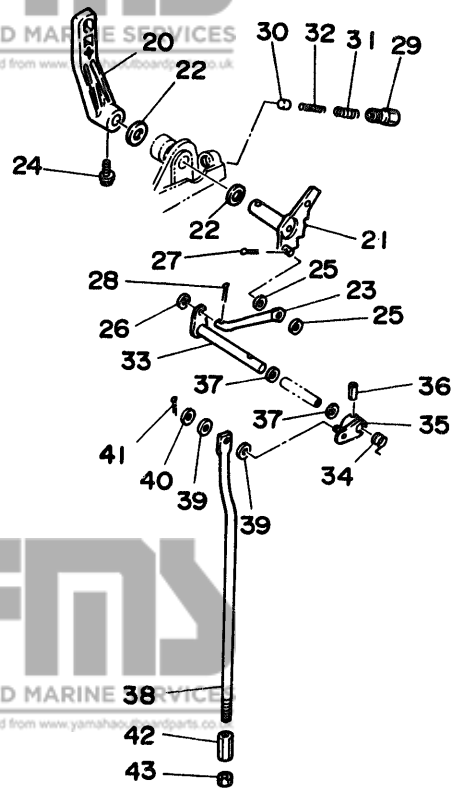


Fig. 10 CONTROL

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	664-41631-00-94	LEVER, magneto control	1	25	90202-06007	WASHER, plate	2
2	90387-06M02	COLLAR	1	26	92990-05600	WASHER, plate	1
3	90387-06298	COLLAR	1	27	91490-16010	PIN, cotter	1
4	97313-06025	BOLT	1	28	91490-12010	PIN, cotter	1
5	664-14497-00	STAY, throttle wire	1	29	664-42715-00	BUSHING	1
6	97013-06012	BOLT	1	30	664-44167-00	PLUNGER, shift cam	1
7	664-41636-00	ROD, magneto control	1	31	90501-14M07	SPRING, compression	1
8	648-41635-00	SHAFT, link connecting	1	32	90501-09M08	SPRING, compression	1
9	90201-05556	WASHER, plate	1	33	689-44121-01	LEVER, shift rod	1
10	95380-05600	NUT	1	34	90508-14M13	SPRING, torsion	1
11	6H1-41237-00	JOINT, link	2	35	689-44125-00	LEVER, shift rod	1
12	90116-05220	BOLT, stud	1	36	91690-40016	PIN, spring	1
13	95380-05600	NUT	1	37	90202-10024	WASHER, plate	2
14	6H1-41237-00	JOINT, link	1	38	660-44143-00	ROD, shift	1
15	95380-05600	NUT	1	39	90202-06007	WASHER, plate	2
16	6A9-42154-00-94	LEVER, throttle control	1	40	92990-05600	WASHER, plate	1
17	656-42153-00-94	SHAFT, throttle control	1	41	91490-20010	PIN, cotter	1
18	90386-10009	BUSH	2	42	648-44146-00	CONNECTOR, shift rod	1
19	91690-40018	PIN, spring	1	43	90170-07021	NUT	1
20	689-44111-00-10	HANDLE, gear shift	1	44	695-41612-00	RETAINER, magneto base	1
21	664-44113-01	CAM PLATE, handle	1	45	695-41613-00	PLATE, base friction	1
22	90202-12031	WASHER, plate	2	46	695-41611-00-94	RETAINER, magneto base	1
23	664-44142-00	JOINT	1	47	97985-05210	SCREW, with washer	3
24	90105-06M07	BOLT, washer based	1				

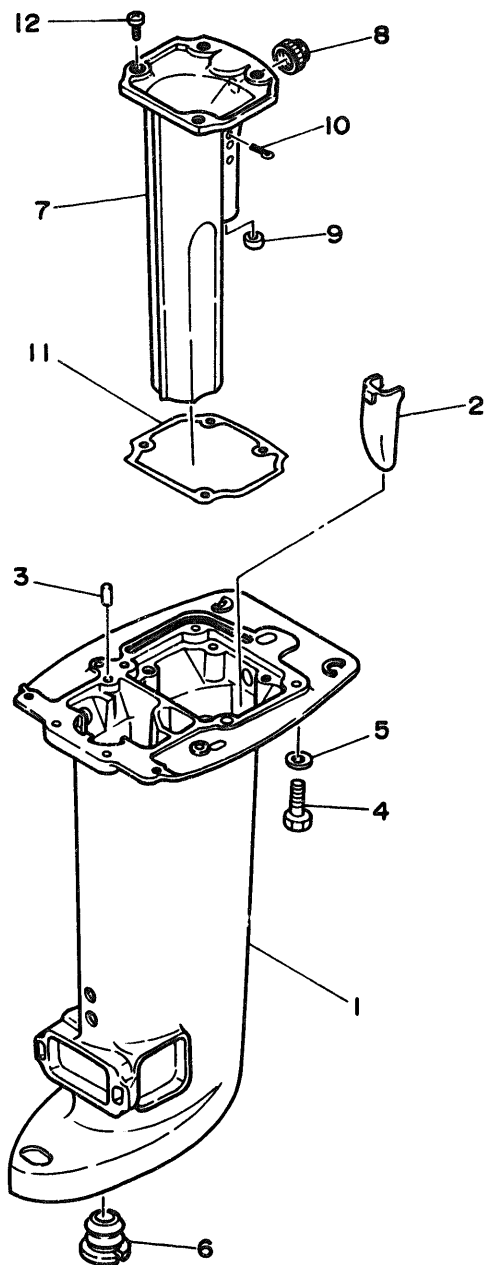
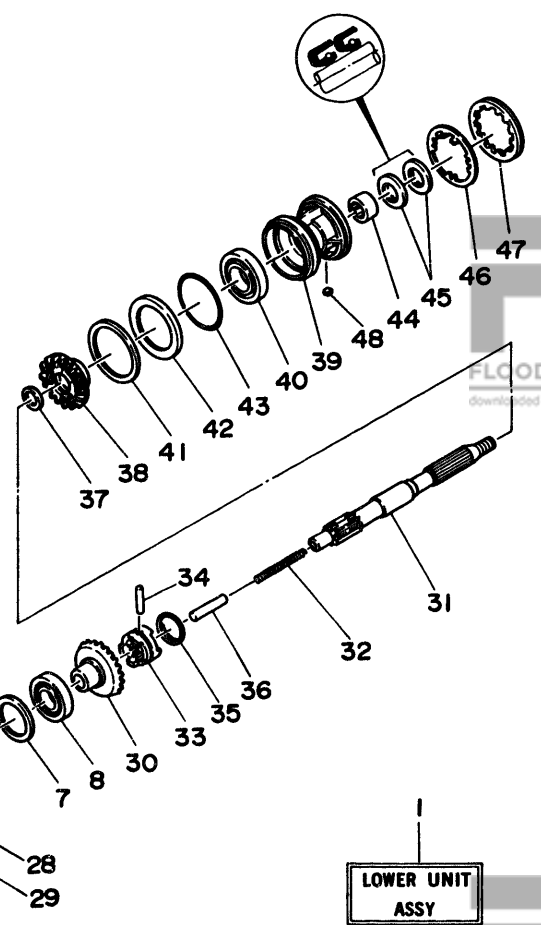
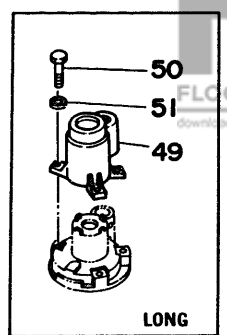
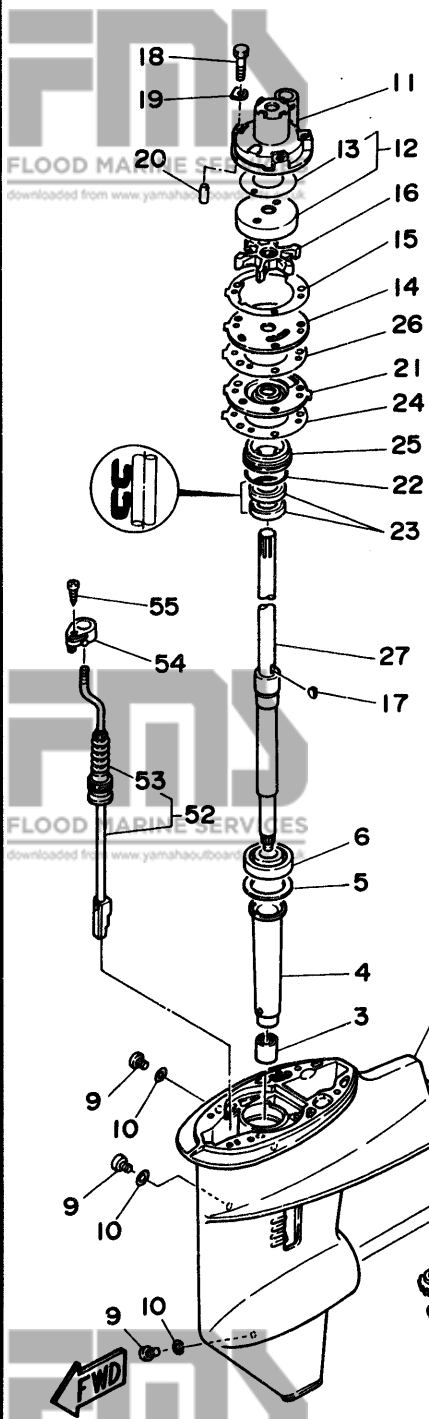


Fig. 11 UPPER CASING

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-45111-01-1D	CASING, upper (Short)	1 UR	6	689-45127-00	SEAL	1
	689-45111-10-1D	CASING, upper (Long)	1 UR	7	664-41131-01-94	MANIFOLD, ext. 1	1
2	689-41132-00-94	MANIFOLD, exhaust (Short)	1 UR	8	664-41133-00	GASKET, exhaust manifold 1	1
	689-41132-10-94	MANIFOLD, exhaust (Long)	1 UR	9	664-41135-00	GASKET, exhaust manifold	1
3	93606-12019	PIN, dowel	2	10	91490-30030	PIN, cotter	1
4	97395-08030	BOLT	6	11	664-41134-00	GASKET, exhaust manifold	1
5	92990-08600	WASHER, plate	6	12	92580-06016	SCREW, pan head	4



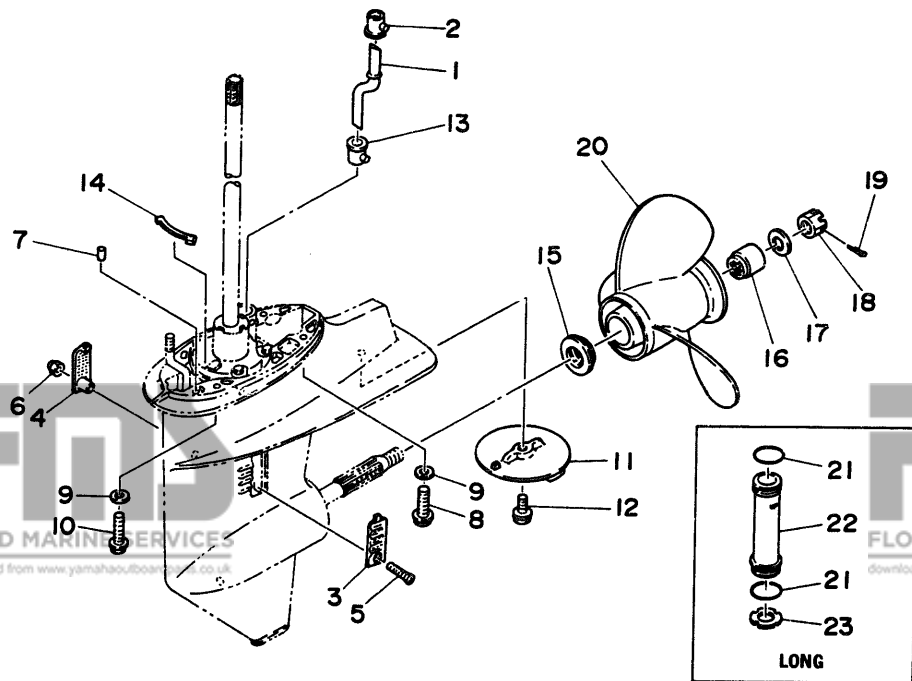
LOWER UNIT
ASSY

Fig. 12 LOWER CASING. DRIVE 1

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-45300-05-1D	LOWER UNIT ASSY (Short) (Ref.No. 2 to 48 and 52 to 55)	1 UR	25	689-45344-00-94	COVER, oil seal	1
	689-45300-15-1D	LOWER UNIT ASSY (Long) (Ref.No. 2 to 17 and 20 to 55)	1 UR	26	689-44316-00	GASKET, water pump	1
2	689-45311-03-1D	CASING, lower	1	27	689-45501-00	DRIVE SHAFT COMP. (Short)	1 UR
3	93315-017U4	BEARING, cylindrical	1		689-45501-10	DRIVE SHAFT COMP. (Long)	1 UR
4	689-45536-00	SLEEVE, drive shaft	1	28	689-45551-00	PINION	1
5	664-45587-01-10	SHIM (T:0.10MM)	1 UR	29	90179-09M02	NUT	1
	664-45587-01-12	SHIM (T:0.12MM)	1 UR	30	689-45560-00	GEAR	1
	664-45587-01-15	SHIM (T:0.15MM)	1 UR	31	689-45611-01	SHAFT, propeller	1
	664-45587-01-18	SHIM (T:0.18MM)	1 UR	32	90501-10065	SPRING, compression	1
	664-45587-01-30	SHIM (T:0.30MM)	1 UR	33	664-45631-00	CLUTCH, dog	1
	664-45587-01-40	SHIM (T:0.40MM)	1 UR	34	90250-05010	PIN, straight	1
	664-45587-01-50	SHIM (T:0.50MM)	1 UR	35	648-45633-00	RING, cross pin	1
6	93332-000U4	BEARING	1	36	648-45635-00	PLUNGER, shift	1
7	664-45567-01-10	SHIM (T:0.10MM)	1 UR	37	90201-20417	WASHER, plate	1
	664-45567-01-12	SHIM (T:0.12MM)	1 UR	38	689-45571-00	GEAR	1
	664-45567-01-15	SHIM (T:0.15MM)	1 UR	39	689-45331-01-94	HOUSING, bearing	1
	664-45567-01-18	SHIM (T:0.18MM)	1 UR	40	93306-00609	BEARING	1
	664-45567-01-30	SHIM (T:0.30MM)	1 UR	41	664-45577-01-10	SHIM (T:0.10MM)	1 UR
	664-45567-01-40	SHIM (T:0.40MM)	1 UR		664-45577-01-12	SHIM (T:0.12MM)	1 UR
	664-45567-01-50	SHIM (T:0.50MM)	1 UR		664-45577-01-15	SHIM (T:0.15MM)	1 UR
8	93332-00005	BEARING	1		664-45577-01-18	SHIM (T:0.18MM)	1 UR
9	90340-08M04	PLUG, straight screw	3		664-45577-01-30	SHIM (T:0.30MM)	1 UR
10	90430-08020	GASKET	3		664-45577-01-40	SHIM (T:0.40MM)	1 UR
11	689-44311-03	HOUSING, water pump	1		664-45577-01-50	SHIM (T:0.50MM)	1 UR
12	689-44432-02	INSERT CARTRIDGE COMP.	1	42	664-45576-00	WASHER, thrust	1 UR
13	689-44367-01	DAMPER, water seal	1	43	93210-60MA3	O-RING	1
14	689-44323-03	OUTER PLATE, cartridge	1	44	93315-22004	BEARING, cylindrical	1
15	689-44324-01	GASKET, cartridge	1	45	93101-20M07	OIL SEAL	2
16	689-44352-02	IMPELLER	1	46	90214-45M02	WASHER, claw	1
17	664-44338-00	KEY, woodruff	1	47	664-45384-00	NUT	1
18	90101-06M56	BOLT	3	48	90282-04010	KEY, straight	1
19	90209-06M04	WASHER	3	49	689-44312-00-5B	COVER, water pump housing (Long)	1
20	93604-10M03	PIN, dowel	2	50	97395-06035	BOLT (Long)	3
21	689-44325-02-5B	PROTECTOR, oil seal	1	51	92990-06600	WASHER, plate (Long)	3
22	93210-40M10	O-RING	1	52	695-44150-00	SHIFT CAM ASSY (Short)	1 UR
23	93101-22067	OIL SEAL	2		695-44150-10	SHIFT CAM ASSY (Long)	1 UR
24	689-44315-01	GASKET, water pump	1	53	664-44147-00	.BOOT, shift rod	1
				54	689-44176-01	BRACKET	1
				55	97780-50110	SCREW, tapping	1

Fig. 13 LOWER CASING. DRIVE 2

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	664-44361-00	TUBE, water (Short)	1 UR	15	664-45987-01	SPACER	1
2	689-44361-10	TUBE, water (Long)	1 UR	16	689-45997-00	SPACER	1
3	689-44366-00	DAMPER, water seal	1	17	92990-14200	WASHER, plain	1
4	689-45214-01	COVER, water inlet	1	18	90171-14013	NUT, castle	1
5	689-45215-01	COVER, water inlet	1	19	91490-30030	PIN, cotter	1
6	98680-05525	SCREW, oval head	1	20	664-45941-01-EL	PROPELLER (3X9-7/8"X9"-F)	1 UR
7	90185-05002	NUT, self-locking	1		664-45949-02-EL	PROPELLER (3X9-7/8"X13"-F)	1 UR
8	93606-12019	PIN, dowel	2		664-45943-01-EL	PROPELLER (3X9-7/8"X8"-F)	1 UR
9	90105-10059	BOLT, washer based	2		664-45945-00-EL	PROPELLER (3X9-7/8"X10-1/2"-F)	1 UR
10	92990-10600	WASHER, plate	4		664-45947-01-EL	PROPELLER (3X9-7/8"X11-1/4"-F)	1 UR
11	90105-10M12	BOLT, washer based	2		664-45952-00-EL	PROPELLER (3X9-7/8"X14"-F)	1 UR
12	664-45371-01	TAB-TRIM	1	21	93210-26240	O-RING (Long)	2
13	90105-08M02	BOLT, washer based	1	22	689-44362-00-94	TUBE, water (Long)	1
14	626-44365-01	DAMPER, water seal	1	23	689-44328-03	PLATE (Long)	1
15	689-44314-00	SPACER	1				



FWD

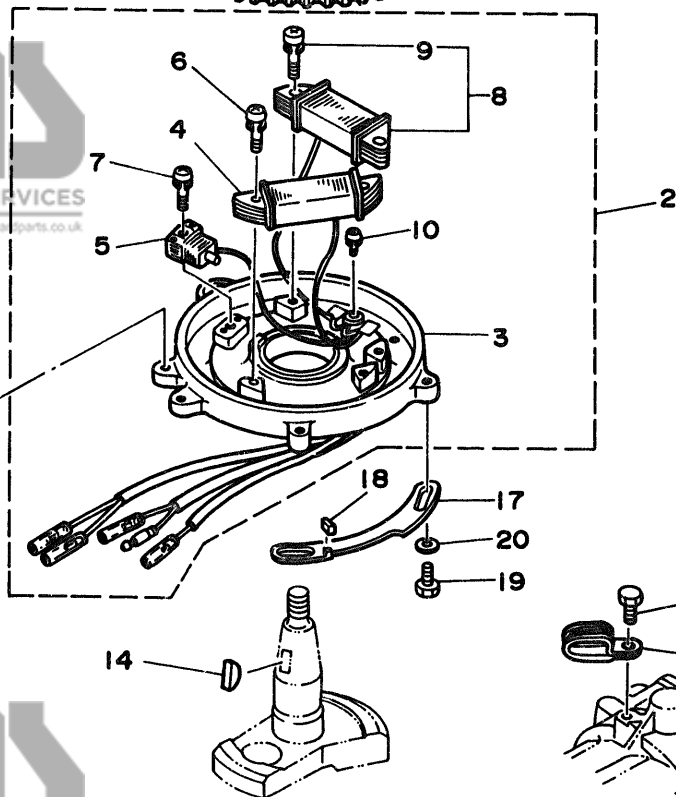
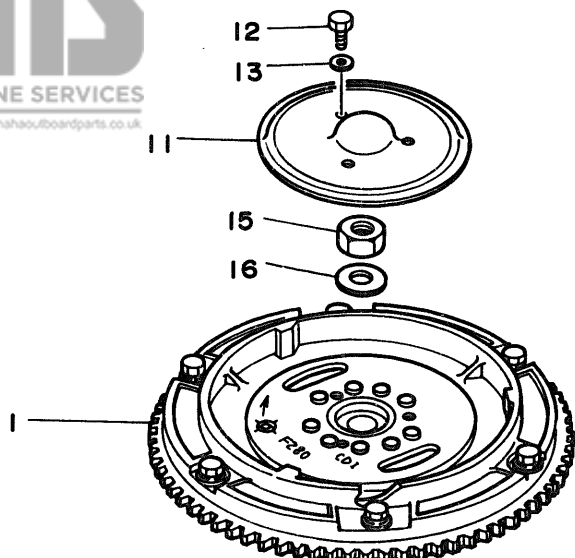


Fig. 14 MAGNETO

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	695-85550-40	ROTOR ASSY	1	14	90280-05013	KEY, woodruff	1
2	695-85560-A0	BASE ASSY	1	15	90170-12066	NUT	1
3	695-85561-70	.BASE, magneto	1	16	90201-12472	WASHER, plate	1
4	695-85520-70	.COIL, charge	1	17	6A9-41615-01	STOPPER, magneto base	1
5	695-85580-70	.COIL, pulser	1	18	695-44194-00	CAP	1
6	90159-05039	.SCREW, with washer	2	19	97013-06012	BOLT	2
7	90159-05038	.SCREW, with washer	1	20	92990-06600	WASHER, plate	2
8	695-81303-A0	.LIGHTING COIL ASSY	1	21	90461-06M01	CLAMP	1
9	90159-05040	.SCREW, with washer	2	22	97313-06010	BOLT	1
10	90159-04035	.SCREW, with washer	1	23	6A9-41213-00-94	CAM, accel.	1
11	648-81362-00	COVER, hole	1	24	97395-05012	BOLT	2
12	97013-06012	BOLT	3	25	92990-05600	WASHER, plate	2
13	92990-06600	WASHER, plate	3				

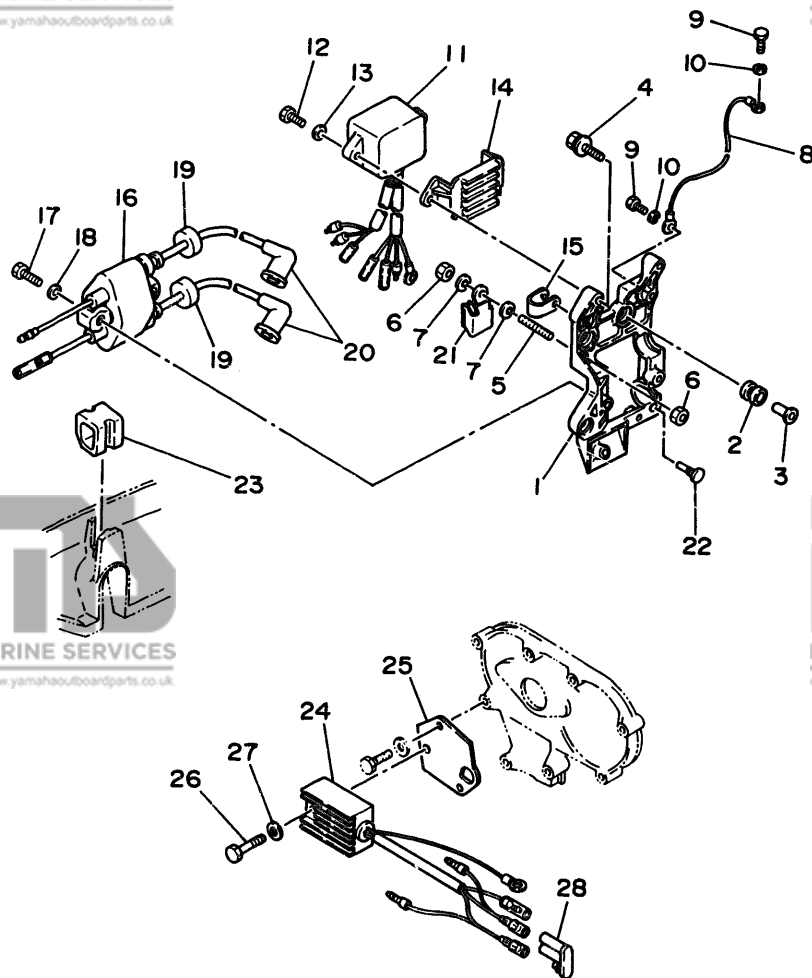


Fig. 15 ELECTRICAL

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	695-85542-00-94	BRACKET	1	15	90464-12M00	CLAMP	1
2	6A0-82317-00	DAMPER, ignition coil	3	16	6E7-85570-19	IGNITION COIL ASSY	1
3	624-42542-00	PIPE	3	17	97313-06025	BOLT	2
4	90119-06M63	BOLT, with washer	3	18	92990-06600	WASHER, plate	2
5	90116-06M07	BOLT, stud	1	19	90480-25161	GROMMET	2
6	95303-06600	NUT	2	20	6G1-82370-20	PLUG CAP ASSY	2
7	92990-06100	WASHER, spring	2	21	90465-08M13	CLAMP	1
8	689-82519-00	WIRE, earth lead	1	22	689-85547-00	DAMPER	1
9	97013-06012	BOLT	2	23	90480-17M08	GROMMET	2
10	92990-06100	WASHER, spring	2	24	6J8-81960-00	RECTIFIER & REGULATOR ASSY	1
11	695-85540-11	C.D.I. UNIT ASSY	1	25	695-81915-00	PLATE, regulator fitting	1
12	97313-06025	BOLT	2	26	97395-06016	BOLT	1
13	92990-06600	WASHER, plate	2	27	92990-06600	WASHER, plate	1
14	689-85548-01	HOLDER	1	28	6E5-82582-00	COVER, wire harness	1

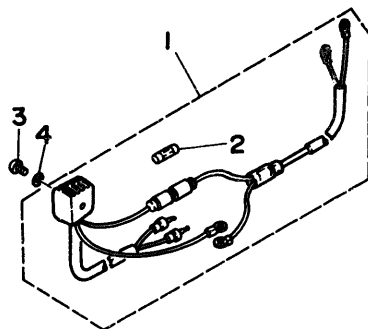


Fig. 16 OPTIONAL PARTS 1

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	676-81970-00	RECTIFIER ASSY	1	9	689-42725-40	GROMMET	1
2	682-82151-00	.FUSE	1	10	689-82575-12	ENGINE STOP SWITCH ASSY	1
3	98503-05025	SCREW, pan head	1	11	682-82556-00	.STOPPER	1
4	92990-05600	WASHER, plate	1	12	689-82553-20	EXTENSION, wire lead	1
5	663-81910-10	VOLTAGE REGULATOR ASSY	1	13	689-42725-40	GROMMET	1
6	689-82553-10	EXTENSION, wire lead	1	14	699-82149-A0	WIRE, lead 3	1
7	689-82550-11	ENGINE STOP SWITCH ASSY	1	15	699-82149-00	WIRE, lead 3	1
8	689-82553-20	EXTENSION, wire lead	1				

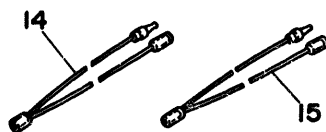
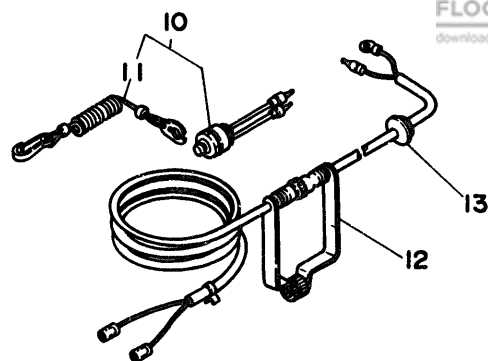
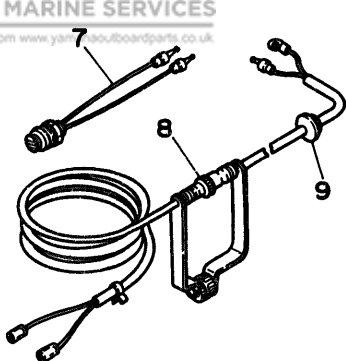
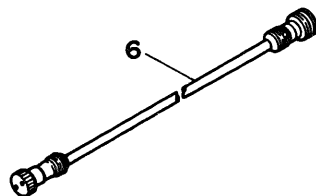
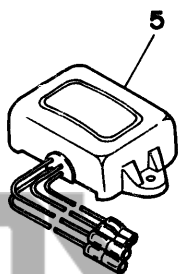


Fig. 17 OPTIONAL PARTS 2

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	6Y5-W0080-12	TACHOMETER KIT	1	16	663-83553-A0	.WIRE, lead	1
2	6Y5-83540-12	.TACHOMETER ASSY	1	17	663-83553-Y0	.WIRE, lead	1
3	688-83516-00	.BULB	1	18	6Y5-W0081-40	SPEEDOMETER KIT	1
4	6Y5-83536-10	.SOCKET, meter	1	19	6Y5-83510-30	.SPEEDOMETER ASSY	1
5	6Y5-83523-00	.DAMPER	1	20	688-83516-00	.BULB	1
6	6Y5-83514-00	.PLATE, fitting	1	21	6Y5-83536-10	.SOCKET, meter	1
7	6Y5-83553-00	.WIRE, lead	1	22	6Y5-83523-00	.DAMPER	1
8	1E6-82151-00	.FUSE (10A)	1	23	6Y5-83514-00	.PLATE, fitting	1
9	6Y5-83553-10	WIRE, lead	1	24	688-83557-00	.TUBE	1
10	6Y5-W0088-31	HOUR METER KIT	1	25	90465-11M10	.CLAMP	2
11	6Y5-83504-01	.HOUR METER ASSY	1	26	688-83556-01	.SENDER	1
12	688-83664-00	.DAMPER	1	27	90601-31402	.NYLON CLIP 1	5
13	6Y5-83577-00	.PLATE, fitting	1	28	97780-40116	.SCREW, tapping	5
14	6Y5-83518-00	.BULB, meter	1	29	688-82526-00	SWITCH, lamp	1
15	6Y5-83536-00	.SOCKET, meter	1				

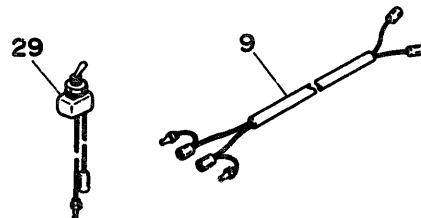
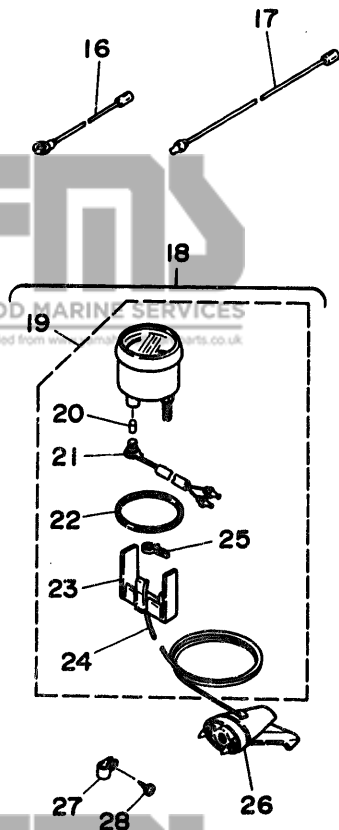
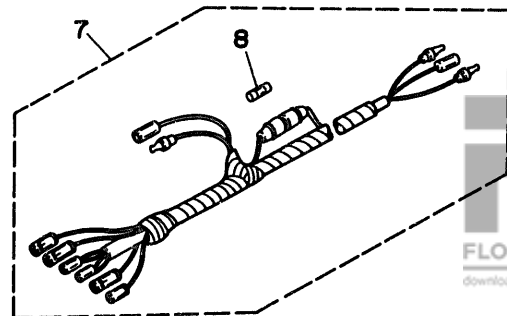
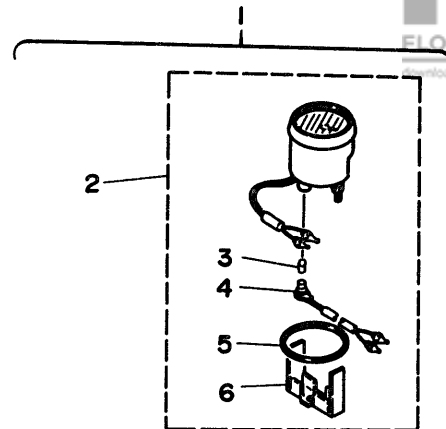
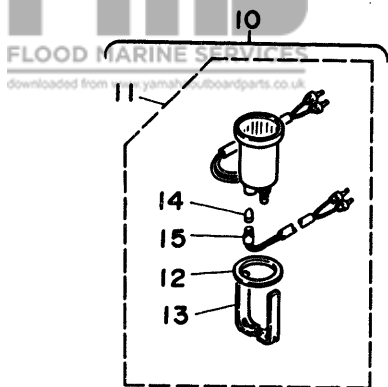
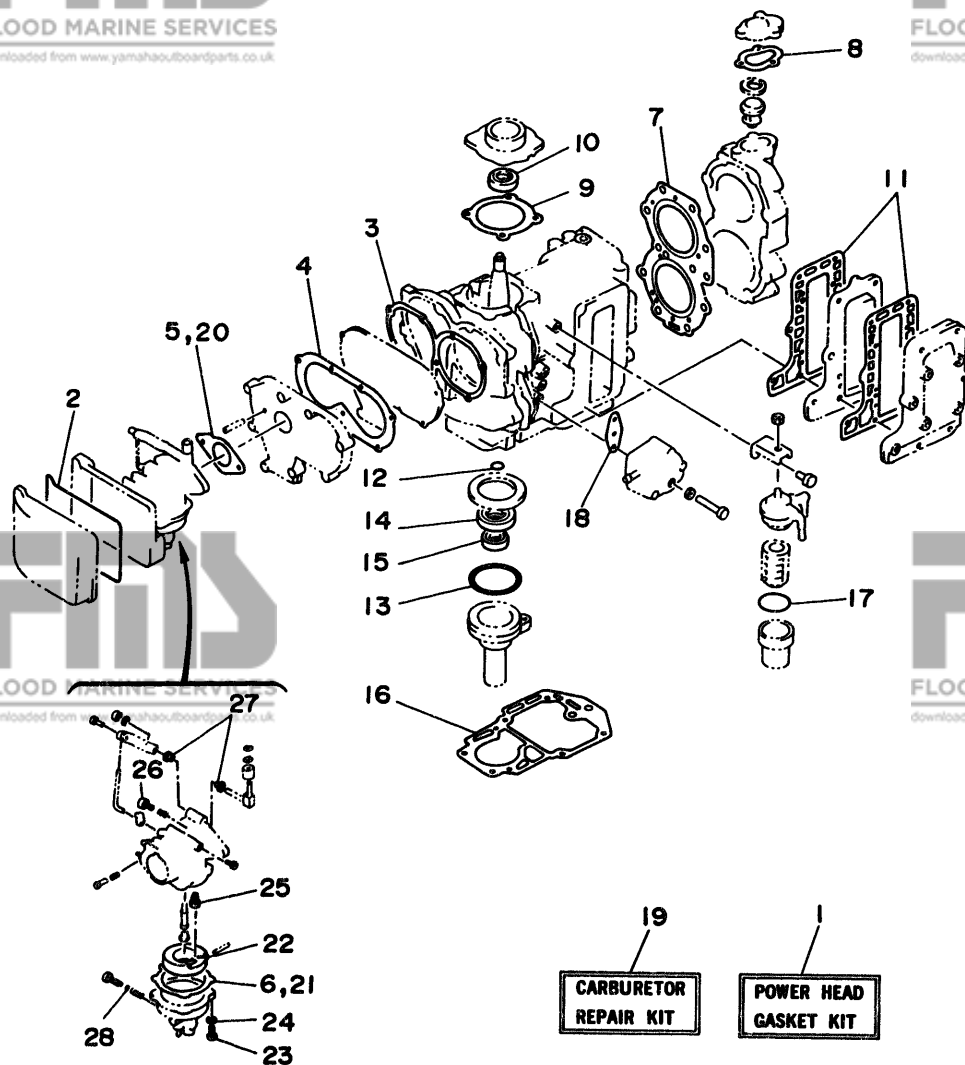


Fig. 18 REPAIR KIT 1

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	695-M0001-01	POWER HEAD GASKET KIT	1	15	93101-16M36	.OIL SEAL	1
2	695-14476-00	.SEAL	1	16	689-45113-01	.GASKET, upper casing	1
3	648-13621-00	.GASKET, valve seat	1	17	93210-37M25	.O-RING	1
4	648-13645-00	.GASKET, manifold 1	1	18	650-24431-00	.GASKET, fuel pump 1	1
5	648-14198-00	.GASKET	1	19	689-W0093-01	CARBURETOR REPAIR KIT	1
6	648-14384-01	.GASKET, float chamber	1	20	648-14198-00	.GASKET	1
7	695-11181-00	.GASKET, cylinder head 1	1	21	648-14384-01	.GASKET, float chamber	1
8	655-12414-00	.GASKET, cover	1	22	648-14385-00	.FLOAT	1
9	664-15369-00	.GASKET, oil seal housing	1	23	98580-04012	.SCREW, pan head	1
10	93102-23096	.OIL SEAL	1	24	92990-04100	.WASHER, spring	1
11	664-41114-00	.GASKET, exhaust outer cover	2	25	648-14390-14	.NEEDLE VALVE ASSY	1
12	93210-16275	.O-RING	1	26	647-14323-00	.SCREW, air adjusting	1
13	93210-57M09	.O-RING	1	27	90386-05002	.BUSH	2
14	93101-25M35	.OIL SEAL	1	28	646-14397-00	.O-RING	1



**LOWER UNIT
GASKET KIT**

**12
WATER PUMP
REPAIR KIT**

**CHROME PUMP
KIT**
22
23
24
25

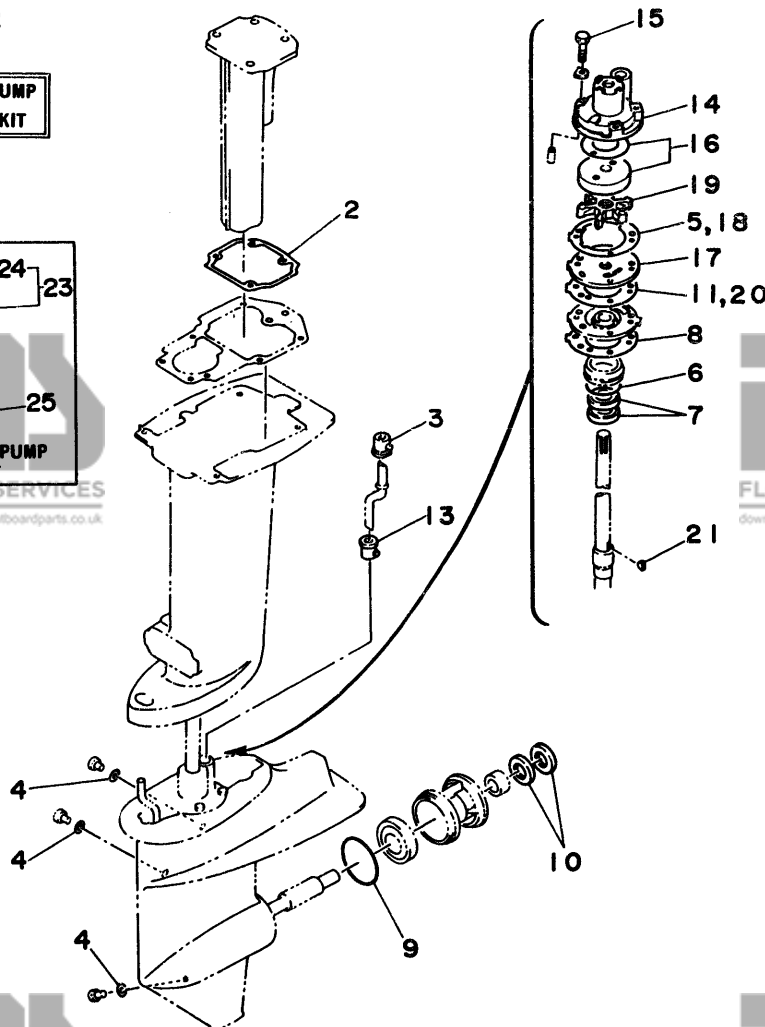


Fig. 19 REPAIR KIT 2

Ref.No.	Parts No.	Description	Q'ty	Ref.No.	Parts No.	Description	Q'ty
1	689-W0001-22	LOWER UNIT GASKET KIT	1	14	689-44311-03	.HOUSING, water pump	1
2	664-41134-00	.GASKET, exhaust manifold	1	15	90101-06M56	.BOLT	3
3	689-44366-00	.DAMPER, water seal	1	16	689-W4432-02	.INSERT CARTRIDGE COMP.	1
4	90430-08020	.GASKET	3	17	689-44323-03	.OUTER PLATE, cartridge	1
5	689-44324-01	.GASKET, cartridge	1	18	689-44324-01	.GASKET, cartridge	1
6	93210-40M10	.O-RING	1	19	689-44352-02	.IMPELLER	1
7	93101-22067	.OIL SEAL	2	20	689-44316-00	.GASKET, water pump	1
8	689-44315-01	.GASKET, water pump	1	21	664-44338-00	.KEY, woodruff	1
9	93210-60M17	.O-RING	1	22	689-W0078-3A	CHROME PUMP KIT	1
10	93101-20M07	.OIL SEAL	2	23	689-W4432-61	.INSERT CARTRIDGE COMP.	1
11	689-44316-00	.GASKET, water pump	1	24	689-44367-01	.DAMPER, water seal	1
12	689-W0078-05	WATER PUMP REPAIR KIT	1	25	689-44323-43	.OUTER PLATE, cartridge	1
13	626-44365-01	.DAMPER, water seal	1				

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689-W0004-00	3- 2
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689-W0078-05	19-12
689-W0078-3A	19-22
6Y5-W0080-12	17- 1
6Y5-W0081-40	17-18
6A9-W0084-00-1D	9- 1
6Y5-W0088-31	17-10
6A9-W0090-82-1D	1- 1
689-W0093-01	18-19
6Y1-W2420-62-24	5- 1
656-W2810-01	5-52
648-W4121-00	3-29
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695-11181-00	1-19
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689-11325-00	1-16
650-11370-00	1- 5
624-11379-00	1- 4
695-11400-00	2- 1
6G0-11412-10	2- 2
6G0-11422-00	2- 3
6G0-11432-00	2- 4
695-11442-00	2- 5
656-11515-00	2-13
664-11610-40	2-23
664-11610-50	2-23
664-11610-80	2-23
664-11631-80-97	2-22
648-11633-00	2-25
664-11635-80	2-22
664-11636-80	2-22
648-11651-03	2- 6
648-11681-00	2- 7
6F5-12411-02	1-21
655-12413-01-9M	1-22
655-12414-00	1-23
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664-15359-01-94	1- 8
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