YAMAHA

parts list 1978

serial no.

28A S : 150101 and up
L : 450101 and up
28AES : 270101 and up
L : 570101 and up

outboard motor

28A

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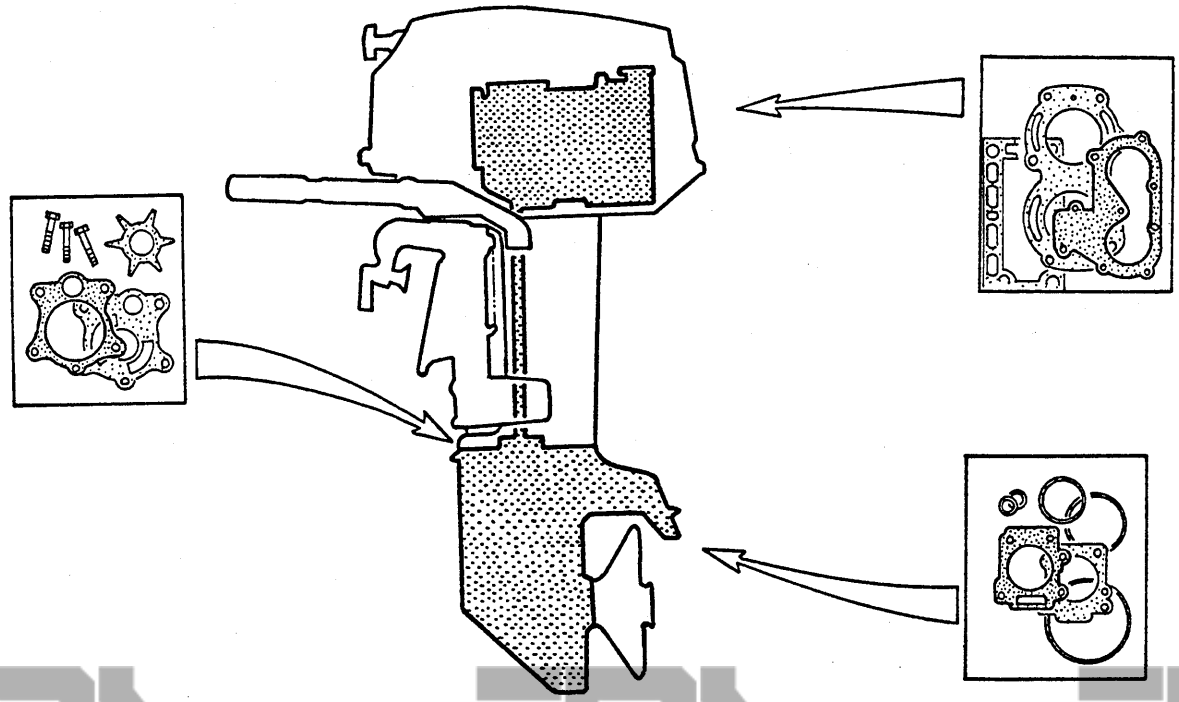
REPAIR KIT



POWER HEAD GASKET KIT	664-W0001-10
LOWER UNIT GASKET KIT	664-W0001-31
REED SET	648-W0004-00
EXTENSION KIT (Long)	664-W0072-02
WATER PUMP REPAIR KIT	664-W0078-01
CHROME PUMP KIT	664-W0078-0A
SAFETY STARTER KIT	656-W0079-00
CRANK CYLINDER ASS'Y	664-W0090-01
CARBURETOR REPAIR SET	656-W0093-00
PISTON ASS'Y (Standard)	664-11630-00
PISTON ASS'Y (Over Size 67.25mm)	664-11630-10
PISTON ASS'Y (Over Size 67.50mm)	664-11630-20
LOWER UNIT ASS'Y (Short)	664-45300-00-F6
LOWER UNIT ASS'Y (Long)	664-45300-10-F6

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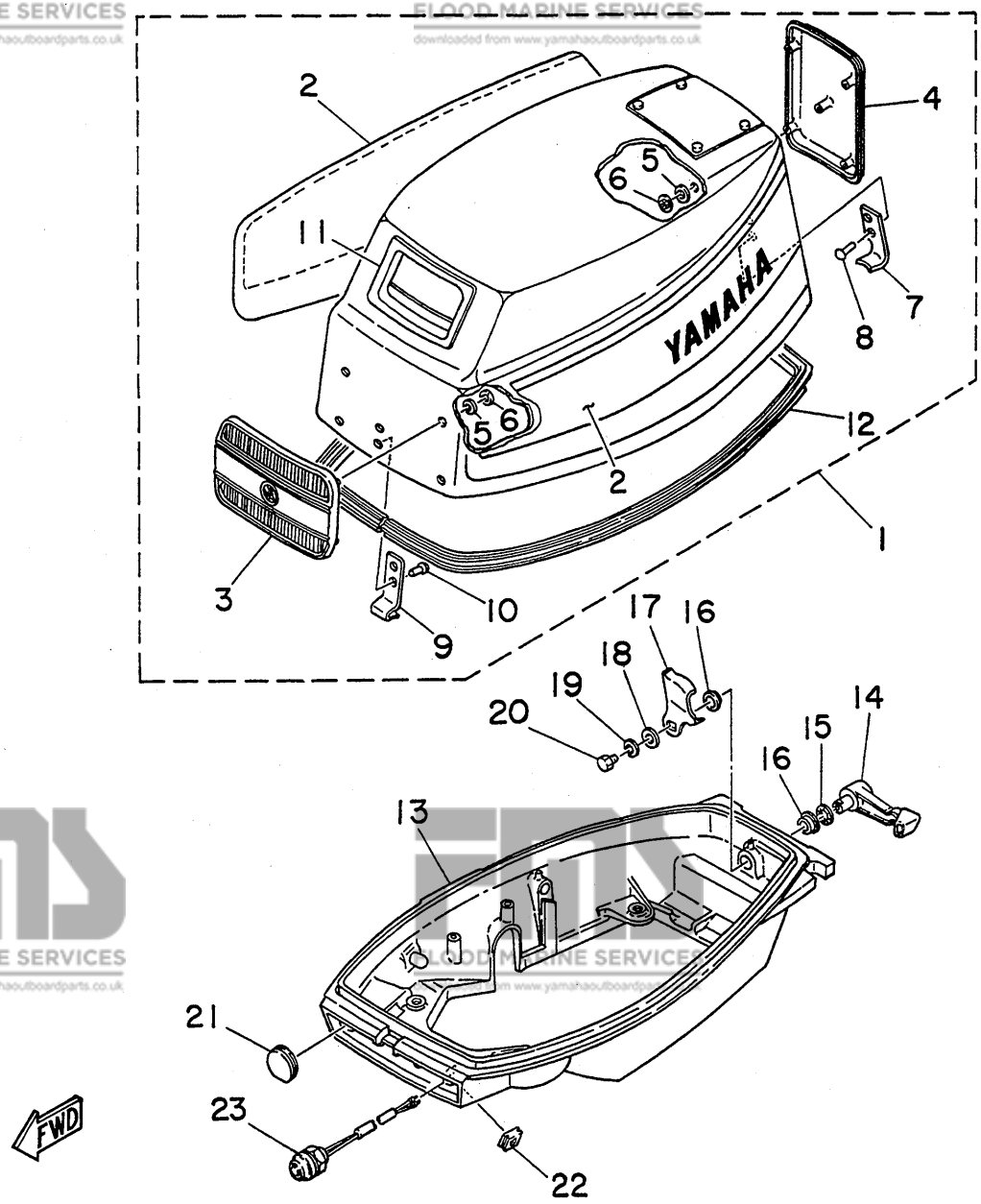
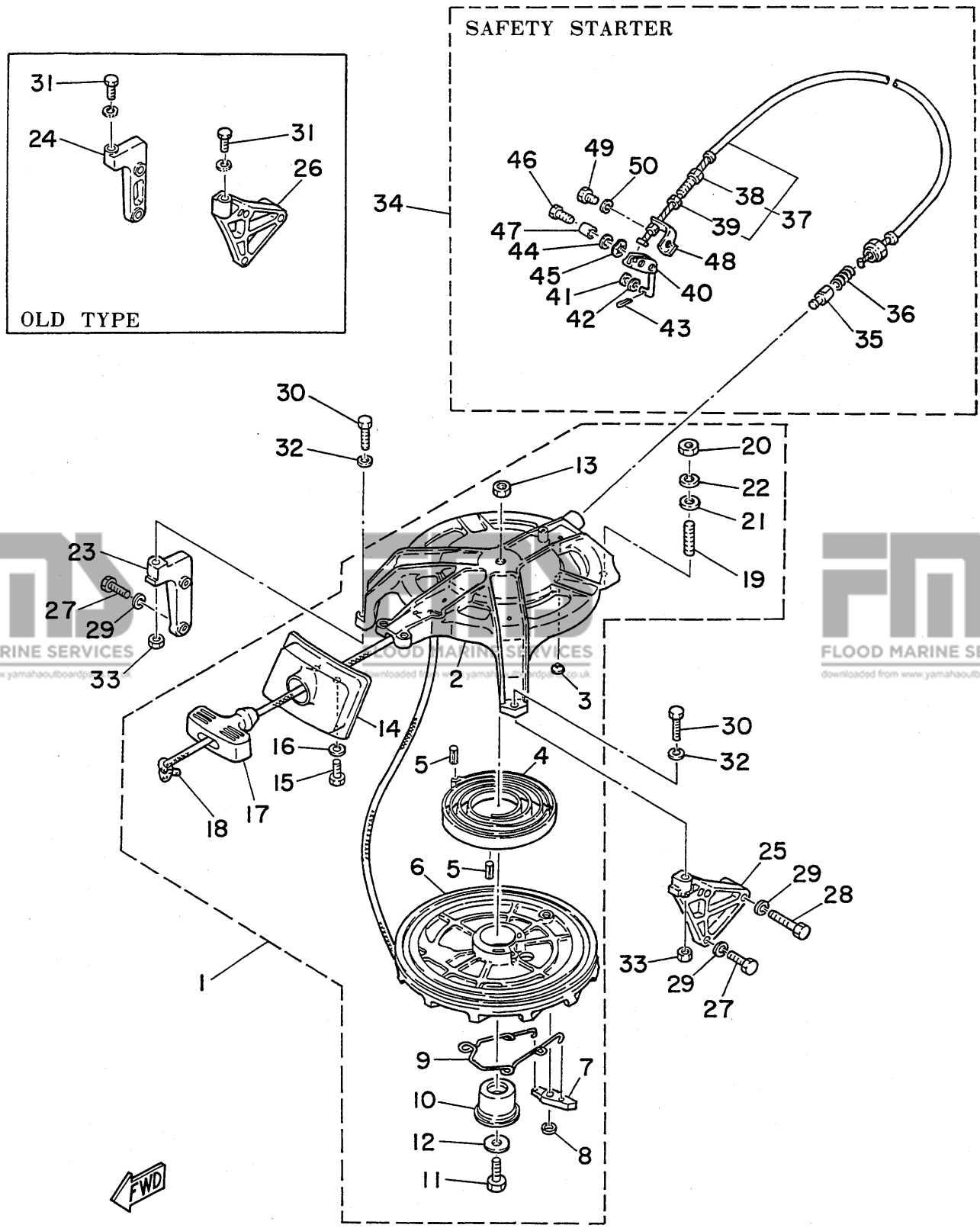
Fig. 1 COWLING -1978



Ref.No.	Parts No.	Description	Q'ty
1	664-42610-63-F6	TOP COWLING ASS'Y	1
2	99999-00921	. GRAPHIC, side set	1s
3	648-42686-00	. EMBLEM, front	1
4	664-42687-60	. EMBLEM, rear	1
5	650-42693-00	. DAMPER, emblem	10
6	90183-05003	. NUT, spring	10
7	656-42647-00	. HOLDER, clamp band	1
8	90266-04012	. RIVET 1	2
9	648-42651-00	. HOOK 1	1
10	90266-04M00	. RIVET 2	2
11	648-15761-00	. SEAL, rubber	1
12	648-42615-00	. SEAL	1
13	664-42711-00-F6	COWLING, bottom 1	1
14	664-42815-00-F6	LEVER, clamp 1	1
15	90206-12052	WASHER, wave (12.5ø-19ø-0.5mm)	1
16	90386-12069	BUSHING	2
17	656-42816-00	LEVER, clamp 2	1
18	90201-06068	WASHER (6.5ø-20ø-2.0mm)	1
19	92990-06100	WASHER	1
20	97313-06010	BOLT	1
21	664-42724-00	GROMMET 1	1
22	90480-12156	GROMMET	1
23	664-82550-00	STOP SWITCH ASS'Y	1

28A/28AE

Fig. 2 STARTER - 1978



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STARTER -1978

676-15799-00 174.7° 追加

656/61
162
163
164

Ref.No.	Parts No.	Description	Q'ty
► 1 *	656-15710-03-F6	STARTER ASS'Y	1
◄ ※	656-15710-02-F6	STARTER ASS'Y	1
► 2 *	656-15711-03-94	. CASE, starter	1
◄ ※	656-15711-02-94	. CASE, starter	1
⇧	656-15711-02-F6	. CASE, starter	1
3	648-15773-00	. STAY 3	6
4	90510-08002	. SPRING, spiral	1
5	91690-40020	. PIN, spring	2
6	656-15714-00-94	. DRUM, sheave 6穴追加	1
7	648-15741-01	. PAWL, drive	1
8	93430-06005	. CIRCLIP (E-6ø)	1
9	656-15705-00	. PAWL DRIVE SPRING ASS'Y	1
10	648-15717-00	. SHAFT	1
11	97313-08025	. BOLT	1
12	90201-08309	. WASHER (8ø-23ø-3.0mm)	1
13	95303-08600	. NUT	1
14	648-15758-00-F6	. GUIDE, wire	1
15	97313-06015	. BOLT	2
16	92903-06100	. WASHER	2
17	619-15755-01	. HANDLE, starter	1
18	✣	. WIRE (2050mm)	1
19	90116-08M01	. BOLT, stud	1
20	95303-08600	. NUT	1
21	92903-08200	. WASHER	1
22	92903-08100	. WASHER	1
▻ 23 *	656-15771-00-94	STAY 1	1
◅ 24	648-15771-00-94	STAY 1	1
▻ 25 *	656-15772-00-94	STAY 2	1
◅ 26	648-15772-00-94	STAY 2	1
27	97313-06025	BOLT	4
28	97313-06040	BOLT	1
29	92903-06100	WASHER	5
▻ 30 *	97313-06030	BOLT	2
◅ 31	97323-06020	BOLT	2
32	92903-06100	WASHER	2
▻ 33 *	95303-06600	NUT	2

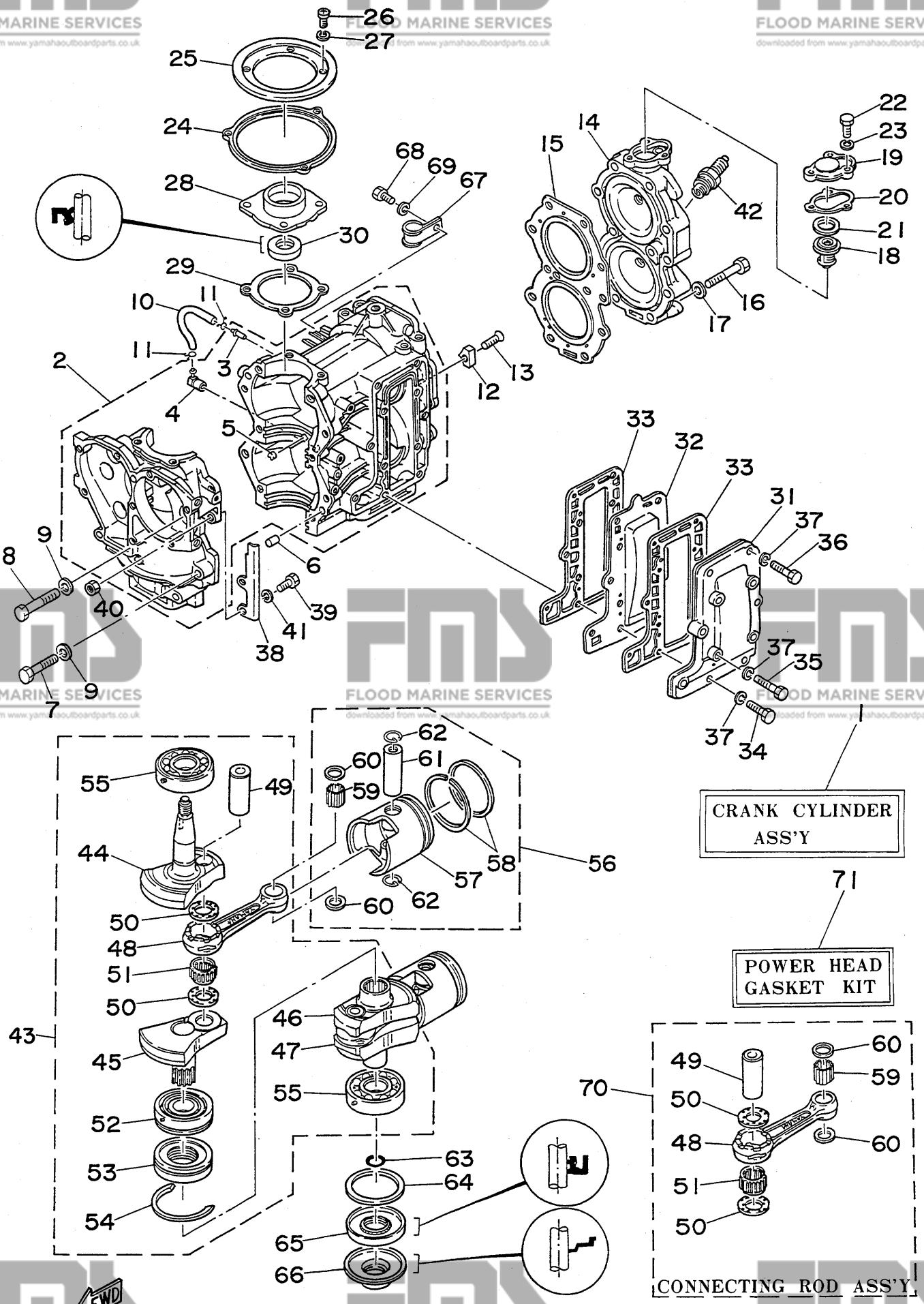
SAFETY STARTER

34	656-W0079-00	SAFETY STARTER KIT	1
35	656-15748-00	. PLUNGER, starter stop	1
36	90501-10227	. SPRING, compression	1
37	656-15770-00	. WIRE COMP., starter stop	1
38	90123-06049	. . BOLT, wire adjusting	1
39	95303-06600	. . NUT	2
40	656-15749-00	. LINK COMP., starter stop	1
41	92903-05600	. WASHER	1
42	90206-05005	. WASHER, wave(5.5ø-11ø-0.3mm)	1
43	91490-16010	. PIN, cotter	1
44	92903-06600	. WASHER	1
45	90206-08010	. WASHER, wave (8.7ø-16ø-0.3mm)	1
46	97313-06020	. BOLT	1
47	90387-06568	. COLLAR (6ø-8ø-7.5mm)	1
48	656-15774-00	. STAY 4	1
49	97313-06012	. BOLT	1
50	92903-06100	. WASHER	1

◄ { 28A S: 154805 and below L: 453230 and below; 28AE S: 270940 and below L: 571825 and below
► { 28A S: 154806 and up L: 453231 and up; 28AE S: 270941 and up L: 571826 and up
◅ { 28A S: 152830 and below L: 452075 and below; 28AE S: 270760 and below L: 571340 and below
▻ { 28A S: 152831 and up L: 452076 and up; 28AE S: 270761 and up L: 571341 and up

* New parts number
⇧ Superseded by new parts number
✣ Cut from 50m roll, Parts No. 90890-44373, cutting length 2.05m.
※ Not shown

Fig. 3 CRANKCASE, CYLINDER & PISTON - 1978



28A/28AE

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CRANKCASE, CYLINDER & PISTON - 1978

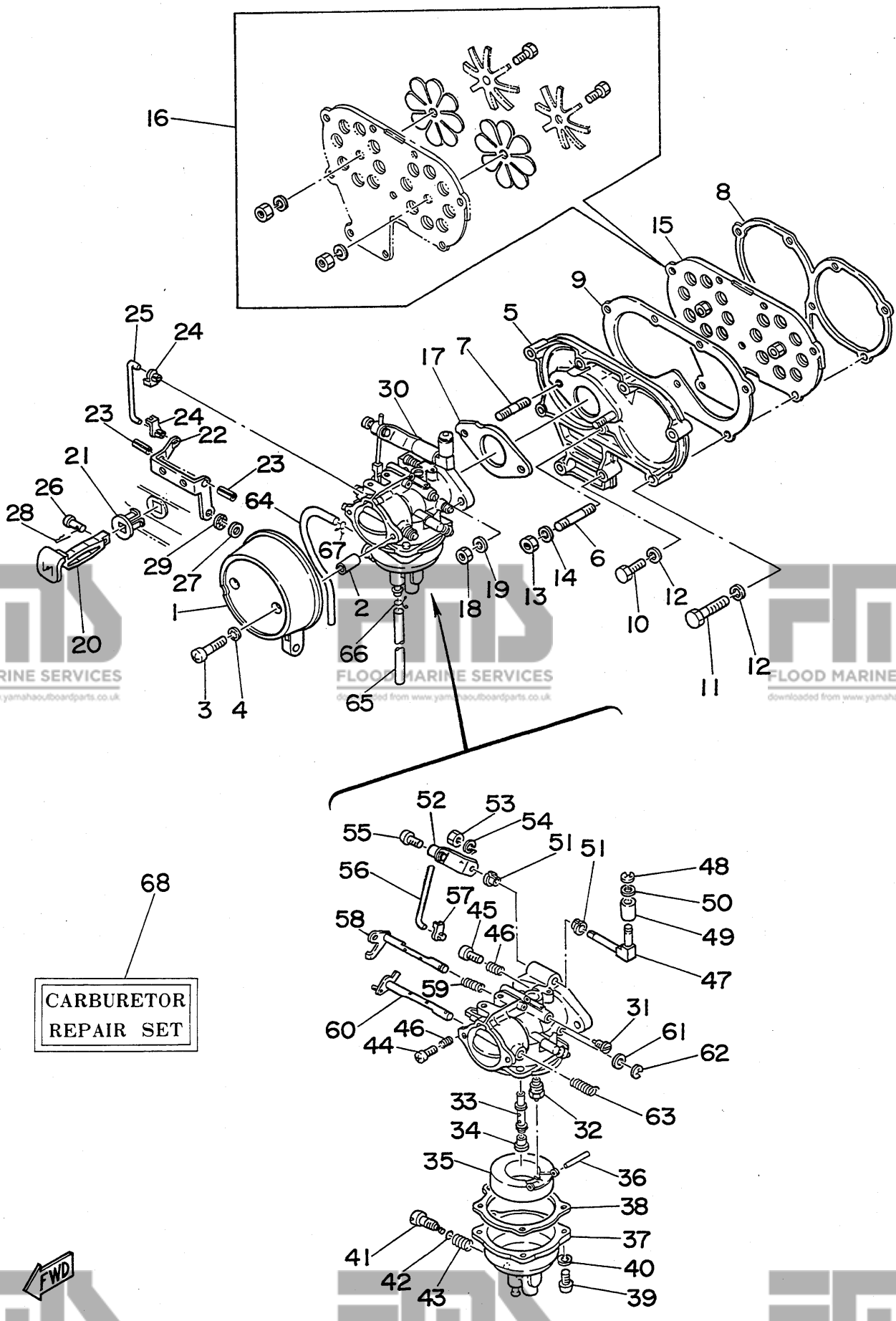
Ref.No.	Parts No.	Description	Q'ty
1 *	664-W0090-01	CRANK CYLINDER ASS'Y (Ref. No. 2 to 66)	1
► 2 *	664-15100-03-94	CRANKCASE ASS'Y	1
◄ ※	664-15100-02-94	CRANKCASE ASS'Y	1
3	624-14485-00	. PIPE, joint	1
4	650-11370-00	. CHECK VALVE ASS'Y	1
5	624-11379-00	. VALVE, check 1	1
6	93606-12019	PIN, dowel B (6ø-12mm)	2
7	97313-08045	BOLT	2
8	97313-08055	BOLT	8
9	648-11175-00	WASHER, holding	10
10	90445-07260	HOSE (2.5ø-7ø-270mm)	1
11	90467-06016	CLIP	2
12	664-11325-00	ANODE	1
13	92280-06020	SCREW, flathead	1
14	664-11111-00-94	HEAD, cylinder 1	1
■ 15	664-11181-00	GASKET, cylinder head	1
16	97313-08050	BOLT	11
17	648-11175-00	WASHER, holding	11
18	656-12411-01	THERMOSTAT	1
19	655-12413-01-94	COVER, thermostat	1
■ 20	655-12414-00	GASKET, thermostat	1
21	90201-21567	WASHER (21.5ø-27.5ø-2mm)	1
22	97313-06020	BOLT	3
23	92903-06100	WASHER	3
24	664-41611-00-94	RETAINER, magneto base 1	1
25	664-41612-01	RETAINER, magneto base 2	1
26	92503-06020	SCREW, panhead	4
27	92903-06100	WASHER	4
28	664-15359-01-94	HOUSING, oil seal	1
■ 29	664-15369-00	GASKET, oil seal housing	1
30	93102-23096	OIL SEAL (SD-23ø-38ø-7mm)	1
31	664-41113-00-94	OUTER COVER, exhaust	1
32	664-41111-00	INNER COVER, exhaust	1
■ 33	664-41114-00	GASKET, exhaust cover	2
34	90101-06M10	BOLT	2
35	90101-06M12	BOLT	5
36	90101-06M13	BOLT	4
37	92903-06100	WASHER	11
38	648-41616-00	STOPPER, magneto base 2	1
39	97313-06020	BOLT	2
40	95303-06600	NUT	2
41	92903-06100	WASHER	2
42	94701-00040	PLUG, spark (B-7HS) NGK	2
43	664-11400-01	CRANK ASS'Y	1
44	648-11412-01	. CRANK 1	1
45	648-11422-01	. CRANK 2	1
46	648-11432-01	. CRANK 3	1
47	664-11442-01	. CRANK 4	1
48	648-11651-01	. ROD, connecting 1	2
49	648-11681-00	. PIN, crank 2	2
50	90209-22071	. WASHER (22.2ø-37ø-1mm)	4
51	93310-522A4	. BEARING, con-rod big end	2
52	93390-00009	. BEARING, roller	1
53	656-11515-00	. SEAL, labyrinth	1
54	93440-62057	. CIRCLIP (62ø special)	1
55	93306-30510	. BEARING (B6305)	2
56 *	664-11630-00	PISTON ASS'Y (Standard)	2
※ *	664-11630-10	PISTON ASS'Y (Over Size 67.25mm)	2
※ *	664-11630-20	PISTON ASS'Y (Over Size 67.50mm)	2
57 *	664-11631-00-96	. PISTON (Standard 66.96mm)	U.R. 2
⇧	656-11631-60-96	. PISTON (Standard 66.96mm)	
*	664-11631-00-97	. PISTON (Standard 66.97mm)	
⇧	656-11631-60-97	. PISTON (Standard 66.97mm)	
*	664-11631-00-98	. PISTON (Standard 66.98mm)	
⇧	656-11631-60-98	. PISTON (Standard 66.98mm)	
※ *	664-11635-00	. PISTON (Over Size 67.25mm)	2
⇧	656-11635-60	. PISTON (Over Size 67.25mm)	2
※ *	664-11636-00	. PISTON (Over Size 67.50mm)	2
⇧	656-11636-60	. PISTON (Over Size 67.50mm)	2
58 *	656-11610-02	. PISTON RING SET (Standard)	2s
⇧	656-11610-01	. PISTON RING SET (Standard)	2s
※ *	656-11610-12	. PISTON RING SET (Over Size 67.25mm)	2s
⇧	656-11610-11	. PISTON RING SET (Over Size 67.25mm)	2s
※ *	656-11610-22	. PISTON RING SET (Over Size 67.50mm)	2s
⇧	656-11610-21	. PISTON RING SET (Over Size 67.50mm)	2s
59	93602-20M02	. BEARING, con-rod small end	62
60	90201-18522	. WASHER (18.2ø-21.5ø-1.2mm)	4
61	648-11633-00	. PIN, piston	2
62	93450-20026	. CLIP	4
■ 63	93210-16275	O-RING (2.4ø-15.8ø)	1
64	90201-50306	WASHER (50ø-66ø-1.5mm)	1
65	93102-25114	OIL SEAL (SD-25ø-62ø-8mm)	1
66	93104-16050	OIL SEAL (SO-16ø-62ø-12mm)	1
67	90461-06015	CLAMP	1
68	97313-06012	BOLT	1
69	92903-06100	WASHER	1
70	648-11650-00	CONNECTING ROD ASS'Y	2
■ 71	664-W0001-10	POWER HEAD GASKET KIT	1

◄ { 28A S: 154805 and below L: 453230 and below; 28AE S: 270940 and below L: 571825 and below

► { 28A S: 154806 and up L: 453231 and up; 28AE S: 270941 and up L: 571826 and up

* New parts number
※ Not shown
⇧ Superseded by new parts number
■ Contents of power head gasket kit

Fig. 4 INTAKE -1978



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INTAKE - 1978

Ref.No.		Parts No.	Description	Q'ty
1		664-14417-00	COVER	1
2		90387-06461	COLLAR (6.5ø-10.5ø-18mm)	2
3		97803-05030	SCREW, panhead	2
4		92903-05300	WASHER	2
5		648-13641-01-94	MANIFOLD, intake	1
6		90116-06138	BOLT, stud	1
7		90116-06122	BOLT, stud	2
■ 8		648-13621-00	PACKING, valve seat	1
■ 9		648-13645-00	GASKET, intake manifold 1	1
10		97313-06025	BOLT	2
11		97313-06035	BOLT	6
12		92903-06100	WASHER	8
13		95303-06600	NUT	1
14		92903-06200	WASHER	1
15	*	656-13610-00	REED VALVE ASS'Y	1
⇧		648-13610-00	REED VALVE ASS'Y	1
16	*	656-W0004-00	. REED SET	1s
■♣ 17		648-14198-00	GASKET	1
18		95303-06600	NUT	2
19		92903-06600	WASHER	2
20		664-41271-00	KNOB, choke 1	1
21		90480-12154	GROMMET 1	1
22		664-41252-00	LEVER, choke 1	1
23		91690-40016	PIN, spring	2
24		661-41262-02	JOINT, choke lever	2
25		664-41256-00	ROD, choke link 1	1
26		90240-05044	PIN, with hole	1
27		90201-05560	WASHER (5.5ø-13ø-0.8mm)	1
28		90468-10005	CLIP	1
29		90206-05005	WASHER, wave (5.5ø-11ø-0.3mm)	1
30		664-14301-02	CARBURETOR ASS'Y	1
31		664-14342-30	. JET, pilot (#60)	1
♣ 32		648-14390-14	. VALVE SEAT ASS'Y	1
33		648-14341-00	. NOZZLE, main (3.0ø)	1
34		648-14343-70	. JET, main (#140)	1
♣ 35		648-14385-00	. FLOAT	1
36		648-14386-00	. PIN, float	1
37		664-14381-00	. BODY, float chamber	1
■♣ 38		648-14384-01	. GASKET, float chamber	1
♣ 39		98503-04012	. SCREW, panhead	4
♣ 40		92990-04100	. WASHER, spring	4
41		646-14394-00	. VALVE, drain	1
♣ 42		646-14397-00	. O-RING	1
43		646-14223-01	. SPRING, drain valve	1
44		648-14321-00	. SCREW, throttle	1
♣ 45		647-14323-00	. SCREW, air adjusting	1
46		648-14334-00	. SPRING, air adjusting	2
47		648-41216-01	. SHEAVE SHAFT, accel. link	1
48		93430-04031	. CIRCLIP (E-4ø)	1
49		664-41231-00	. COLLAR, guide pin	1
50		92990-05200	. WASHER	1
♣ 51		90386-05002	. BUSHING	2
52		648-41210-01	. ACCEL. ARM ASS'Y	1
53		95303-05700	. NUT	1
54		92990-05100	. WASHER, spring	1
55		664-14327-00	. SCREW	1
56		656-41241-00	. ROD 1	1
♣ 57		661-41262-02	. JOINT, choke lever	1
58		664-14315-00	. LEVER THROTTLE ASS'Y	1
59		648-14331-00	. SPRING, throttle valve	1
60		664-14201-01	. CHOKE LEVER COMP.	1
61		664-14357-00	. WASHER, plain	1
62		664-14377-00	. STOPPER	1
63		664-14218-00	. SPRING, choke lever	1
64		90446-05005	HOSE (3ø-5ø-300mm)	1
65		90445-09105	HOSE (5ø-9ø-300mm)	1
66		90467-08004	CLIP	1
67		90467-05001	CLIP	1
♣ 68	*	656-W0093-00	CARBURETOR REPAIR SET	1s

* New parts number

~~※ Not shown~~

⇧ Superseded by new parts number

■ Contents of power head gasket kit (Parts No. 664-W0001-10)

♣ Contents of carburetor repair set

Fig. 5 FLYWHEEL MAGNETO - 1978

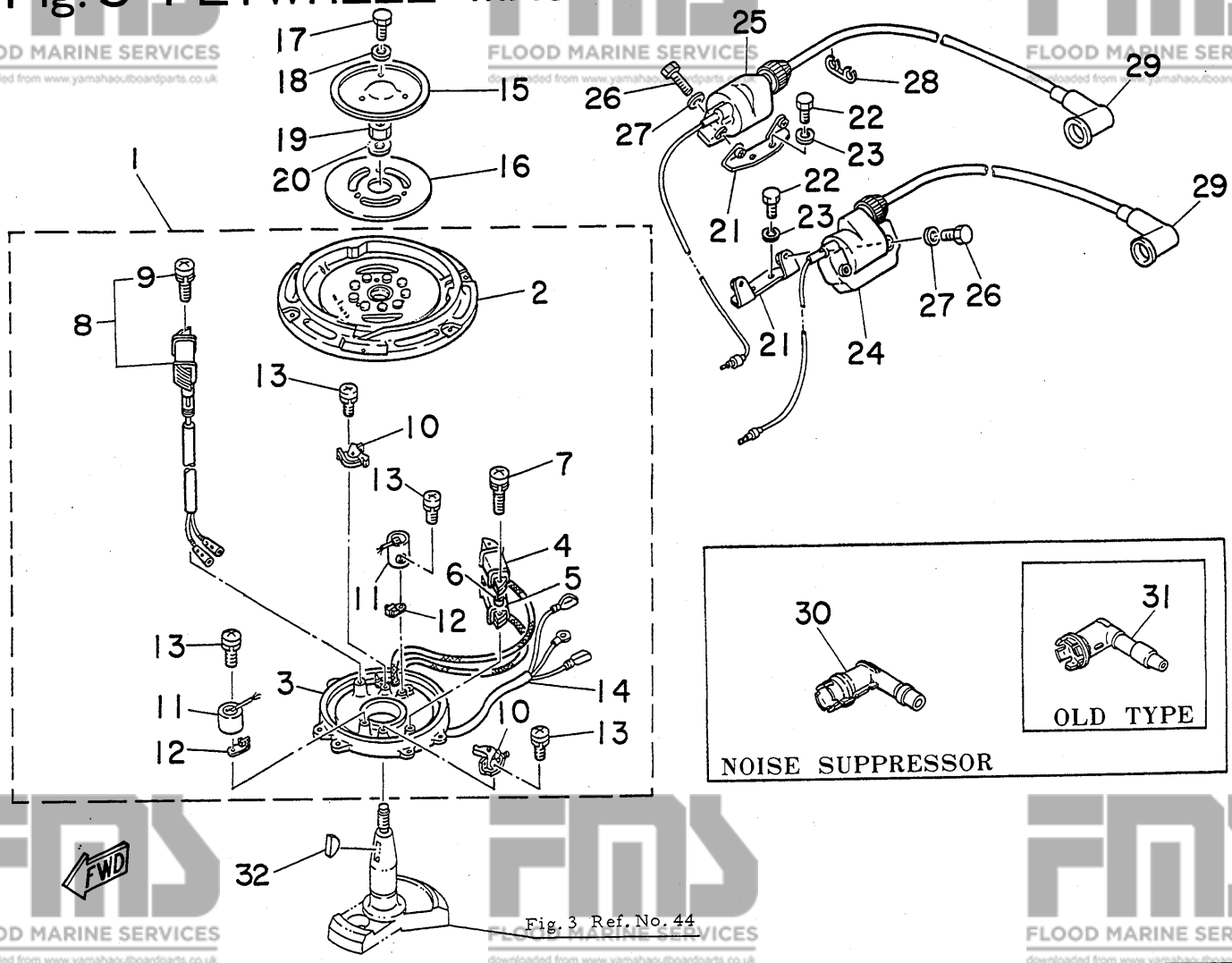


Fig. 3 Ref. No. 44

Ref.No.	Parts No.	Description	Q'ty
1	656-81300-61	FLYWHEEL MAGNETO ASS'Y	1
2	648-81350-10	. ROTOR ASS'Y	1
3	648-81309-12	. BASE, magneto	1
4	647-81311-10	. COIL, ignition 1	1
5	647-81312-10	. COIL, ignition 2	1
6	647-81318-10	. TUBE	2
7	647-81323-10	. SCREW (M5-35mm)	2
8 *	677-81303-60	. LIGHTING COIL ASS'Y	1
⇧	647-81313-41	. COIL, lighting	1
9	647-81324-10	. . SCREW (M5-30mm)	2
10	650-81321-10	. CONTACT BREAKER ASS'Y	2
11	647-81325-11	. CONDENSER	2
12	207-81331-10	. LUBRICATOR	2
13	164-81246-21	. SCREW	4
14	648-81315-10	. LEAD WIRE ASS'Y	1
15	648-81362-01	COVER, hole	1
16	648-81365-00	PACKING	1
17	97313-06012	BOLT	3
18	92903-06200	WASHER	3
19	90170-12066	NUT	1
20	90201-12472	WASHER (12.2ø-26ø-3.2mm)	1
21	664-82316-01	BRACKET, ignition coil	2
22	97313-06014	BOLT	4
23	92903-06100	WASHER	4
24 *	664-82310-12	IGNITION COIL ASS'Y 1	1
⇧	664-82310-11	IGNITION COIL ASS'Y 1	1
25 *	664-82320-12	IGNITION COIL ASS'Y 2	1
⇧	664-82320-11	IGNITION COIL ASS'Y 2	1
26	97313-06025	BOLT	4
27	92903-06600	WASHER	4
28	90464-07015	CLAMP	1
29	663-82370-01	PLUG CAP ASS'Y	2
► 30 *	677-82370-00	PLUG CAP ASS'Y (Noise Suppressor)	2
◄ 31	650-82370-00	PLUG CAP ASS'Y (Noise Suppressor)	2
32	90280-05013	KEY, woodruff	1

◄ { 28A S: 154805 and below 28AE S: 270940 and below
L: 453230 and below L: 571825 and below

► { 28A S: 154806 and up 28AE S: 270941 and up
L: 453231 and up L: 571826 and up

* New parts number

⇧ Superseded by new parts number

Fig. 6 UPPER CASING - 1978

Ref. No.		Parts No.	Description	Q'ty
1		664-45101-00-F6	UPPER CASING COMP.	1
■ 2		664-45113-01	GASKET, upper casing	1
3		93606-12019	PIN, dowel B (6ø-12mm)	2
4		90101-08M23	BOLT	6
5		92990-08100	WASHER	6
6		92990-08600	WASHER	6
7		664-41131-01-94	MANIFOLD, exhaust 1	1
8		664-41133-00	GASKET, exhaust manifold 1	1
▲ 9		664-41134-00	GASKET, exhaust manifold 2	1
10		664-41135-00	GASKET, exhaust manifold 3	1
11		91490-30025	PIN, cotter	1
12		97890-06015	SCREW, panhead	4
		LONG		
● 13	*	664-45211-12-F6	EXTENSION (Long 127mm)	1
●	⇧	664-45211-11-F6	EXTENSION (Long 127mm)	1
● 14		93606-12019	PIN, dowel B (6ø-12mm)	2
● 15		90101-10M26	BOLT	4
● 16		92990-10100	WASHER	4
● 17		92990-10600	WASHER	4
● 18	*	664-W0072-02	EXTENSION KIT (Long)	1
●	⇧	664-W0072-01	EXTENSION KIT (Long)	1

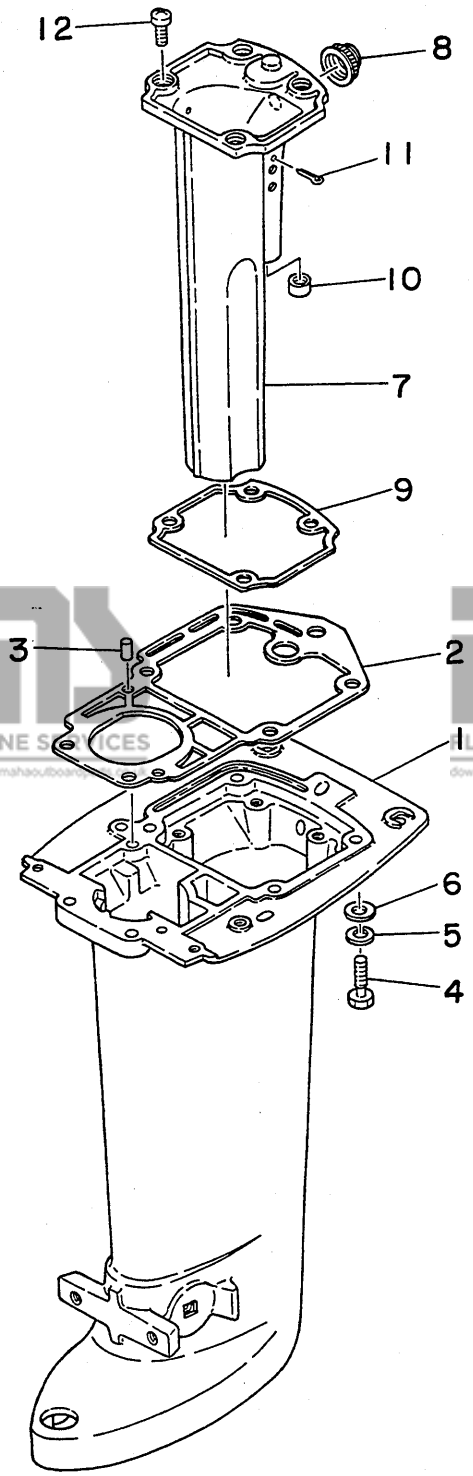
* New parts number

⇧ Superseded by new parts number

■ Contents of power head gasket kit (Parts No. 664-W0001-10)

▲ Contents of lower unit gasket kit (Parts No. 664-W0001-31)

● Contents of extension kit



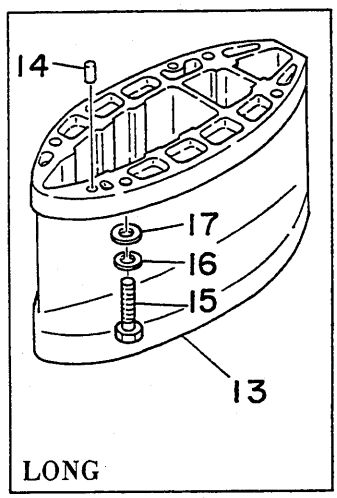


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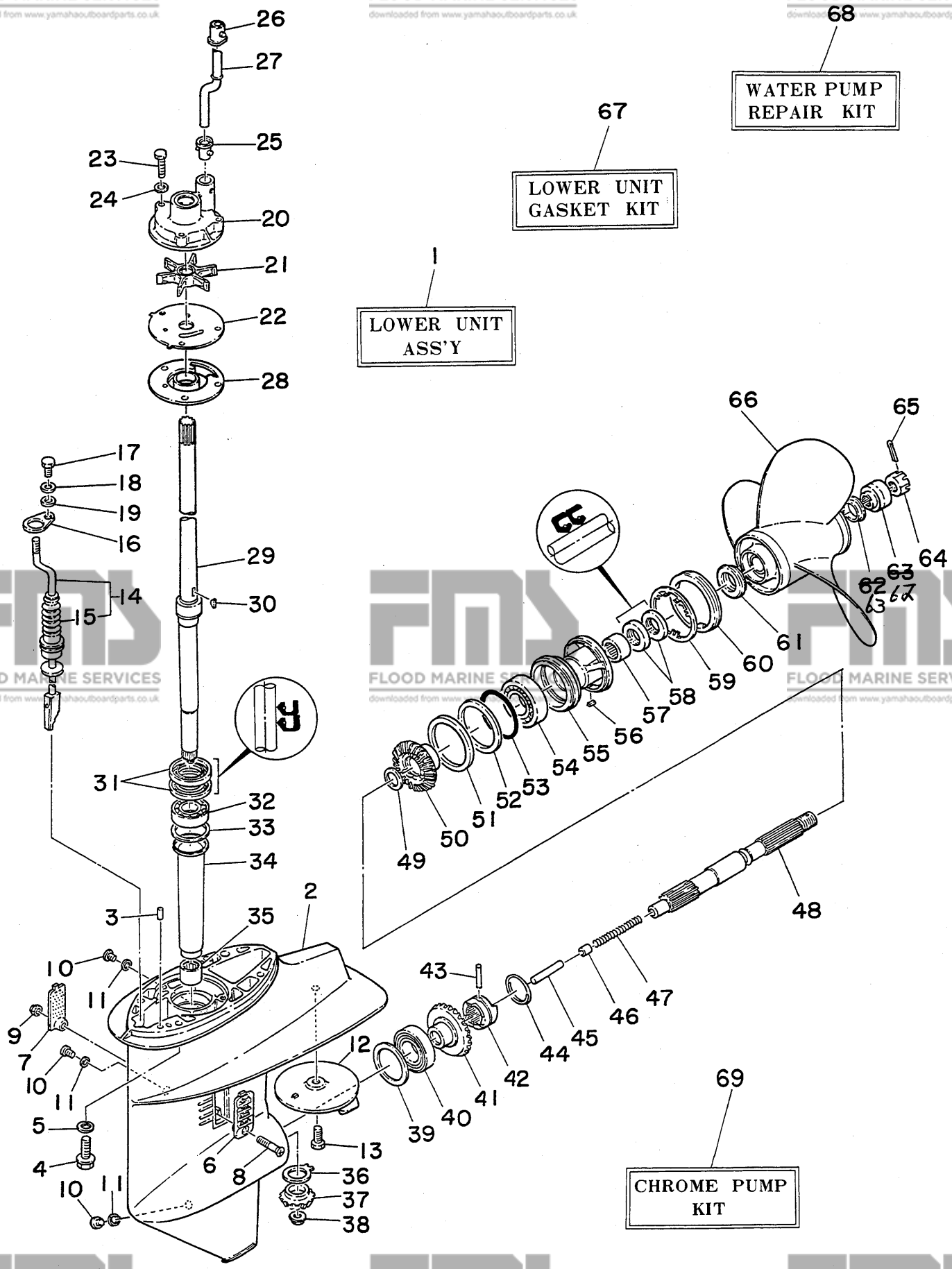
Fig. 7 LOWER & DRIVE -1978



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LOWER & DRIVE -1978

Ref.No.	Parts No.	Description	Q'ty
1	664-45300-00-F6	LOWER UNIT ASS'Y (Short) (Ref. No. 2,10,11,14 to 25, 28 to 60)	1s
※	664-45300-10-F6	LOWER UNIT ASS'Y (Long) (Ref. No. 2,10,11,14 to 25, 28 to 60)	1s
2	664-45311-01-F6	CASING, lower	1
3	93606-12019	PIN, dowel B (6ø-12mm)	2
4	90105-10059	BOLT	4
5	90204-10006	WASHER	4
6	664-45214-00	COVER, water inlet 1	1
7	664-45215-00	COVER, water inlet 2	1
8	98180-05025	SCREW, ovalhead	1
9	90185-05002	NUT, self-locking	1
10	90340-08014	PLUG, straight screw	3
▲ 11	90430-08020	GASKET	3
12	664-45371-01	TAB, trim	1
13	90105-08M02	BOLT	1
14	664-44150-01	SHIFT CAM ASS'Y (Short 311mm)	1
● ※	664-44150-11	SHIFT CAM ASS'Y (Long 438mm)	1
● 15	664-44147-00	. BOOT, shift rod	1
16	664-45321-00	PLATE	1
17	97370-06010	BOLT	1
18	92990-06600	WASHER	1
19	92903-06200	WASHER	1
★ 20	664-44301-00	WATER PUMP HOUSING COMP.	1
☆ ※	664-44301-40	WATER PUMP HOUSING COMP.	1
☆★ 21	664-44352-01	IMPELLER	1
★ 22	664-44323-00	OUTER PLATE, cartridge	1
☆ ※	664-44323-40	OUTER PLATE, cartridge	1
☆★ 23	90101-06M11	BOLT	3
24	92990-06600	WASHER	3
☆★ 25	626-44365-01	RUBBER, water seal 1	1
▲ 26	664-44366-01	RUBBER, water seal 2	1
27	664-44361-00	TUBE, water 1 (Short 113mm)	1
● ※	664-44361-10	TUBE, water 1 (Long 240mm)	1
28	664-44325-02	PROTECTOR, oil seal	1
29	664-45501-00	DRIVE SHAFT COMP.(Short 655.5mm)	1
● ※	664-45501-10	DRIVE SHAFT COMP.(Long 782.5mm)	1
☆★ 30	664-44338-00	KEY, woodruff	1
31	93101-26073	OIL SEAL (S-26ø-45ø-6mm)	2
32	93306-00401	BEARING (B6004)	1
33	664-45587-00-05	SHIM 3 (36ø-41.5ø-0.05mm)	U.R.
	664-45587-00-08	SHIM 3 (36ø-41.5ø-0.08mm)	
	664-45587-00-12	SHIM 3 (36ø-41.5ø-0.12mm)	
	664-45587-00-30	SHIM 3 (36ø-41.5ø-0.30mm)	
	664-45587-00-50	SHIM 3 (36ø-41.5ø-0.50mm)	
34	664-45536-00	SLEEVE, drive shaft	1
35	93315-01725	BEARING, needle	1
36	664-45552-00	BEARING, plain	1
37	664-45551-00	PINION (13T)	1
38	90179-08167	NUT	1
39	664-45567-00-05	SHIM 1 (42ø-51.5ø-0.05mm)	U.R.
	664-45567-00-08	SHIM 1 (42ø-51.5ø-0.08mm)	
	664-45567-00-12	SHIM 1 (42ø-51.5ø-0.12mm)	
	664-45567-00-30	SHIM 1 (42ø-51.5ø-0.30mm)	
	664-45567-00-50	SHIM 1 (42ø-51.5ø-0.50mm)	
40	93332-00005	BEARING, taper roller	1
41	664-45560-00	GEAR 1 ASS'Y (24T)	1
42	664-45631-00	CLUTCH, dog	1
43	90250-05010	PIN, straight	1
44	648-45633-00	RING, cross pin	1
45	648-45635-00	PLUNGER, shift	1
46	648-45634-00	SLIDE, shift	1
47	90501-10065	SPRING	1
48	664-45611-00	SHAFT, propeller	1
49	90201-20540	WASHER, plate (20ø-24.5ø-1.5mm)	1
50	664-45571-00	GEAR 2 (24T)	1
51	664-45577-00-05	SHIM 2 (64ø-67.4ø-0.05mm)	U.R.
	664-45577-00-08	SHIM 2 (64ø-67.4ø-0.08mm)	
	664-45577-00-12	SHIM 2 (64ø-67.4ø-0.12mm)	
	664-45577-00-30	SHIM 2 (64ø-67.4ø-0.30mm)	
	664-45577-00-50	SHIM 2 (64ø-67.4ø-0.50mm)	
52	664-45576-00	WASHER, thrust 2 (49ø-67ø-4mm)	1
▲ 53	93210-62274	O-RING (2.8ø-62.0ø)	1
54	93306-00606	BEARING (B6006)	1
55	664-45331-00-94	HOUSING, bearing 1	1
56	90282-04010	KEY, straight	1
57	93315-22004	BEARING, needle	1
58	93101-20068	OIL SEAL (S-20ø-34ø-6mm)	2
59	90214-45012	WASHER, claw	1
60	664-45384-00	NUT	1
61	664-45987-00	SPACER 1	1
62 ＊	664-45997-00	SPACER 2	1
⇧	664-45997-01-94	SPACER 2	1
63	~~664-45998-00~~	~~CAP, thrust plate~~ 93370-14200 washer	~~1~~ 1
64	90171-14013	NUT, castle	1
65	91490-30022	PIN, cotter	1
66	664-45911-01-36	PROPELLER ASS'Y 1 (2x9¾"x10½"-F)	U.R. 1
	664-45941-01-36	PROPELLER ASS'Y 1 (3x9¾"x9"-F)	
	664-45913-01-36	PROPELLER ASS'Y 2 (2x9¾"x12"-F)	
	664-45943-01-36	PROPELLER ASS'Y 2 (3x9¾"x8"-F)	
	664-45945-00-36	PROPELLER ASS'Y 3 (3x9¾"x10½"-F)	
	664-45947-00-36	PROPELLER ASS'Y 4 (3x9¾"x12"-F)	
	664-45949-00-36	PROPELLER ASS'Y 5 (3x9¾"x13"-F)	
▲ 67	664-W0001-31	LOWER UNIT GASKET KIT	1
▲ ⇧	664-W0001-30	LOWER UNIT GASKET KIT	1
★ 68	664-W0078-01	WATER PUMP REPAIR KIT	1
★ ⇧	664-W0078-00	WATER PUMP REPAIR KIT	1
☆ 69	664-W0078-0A	CHROME PUMP KIT	1

＊ New parts number
※ Not shown
⇧ Superseded by new parts number
▲ Contents of lower unit gasket kit
★ Contents of water pump repair kit
☆ Contents of chrome pump kit
● Contents of extension kit (Parts No. 664-W0072-02)

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Fig. 8 BRACKET -1978

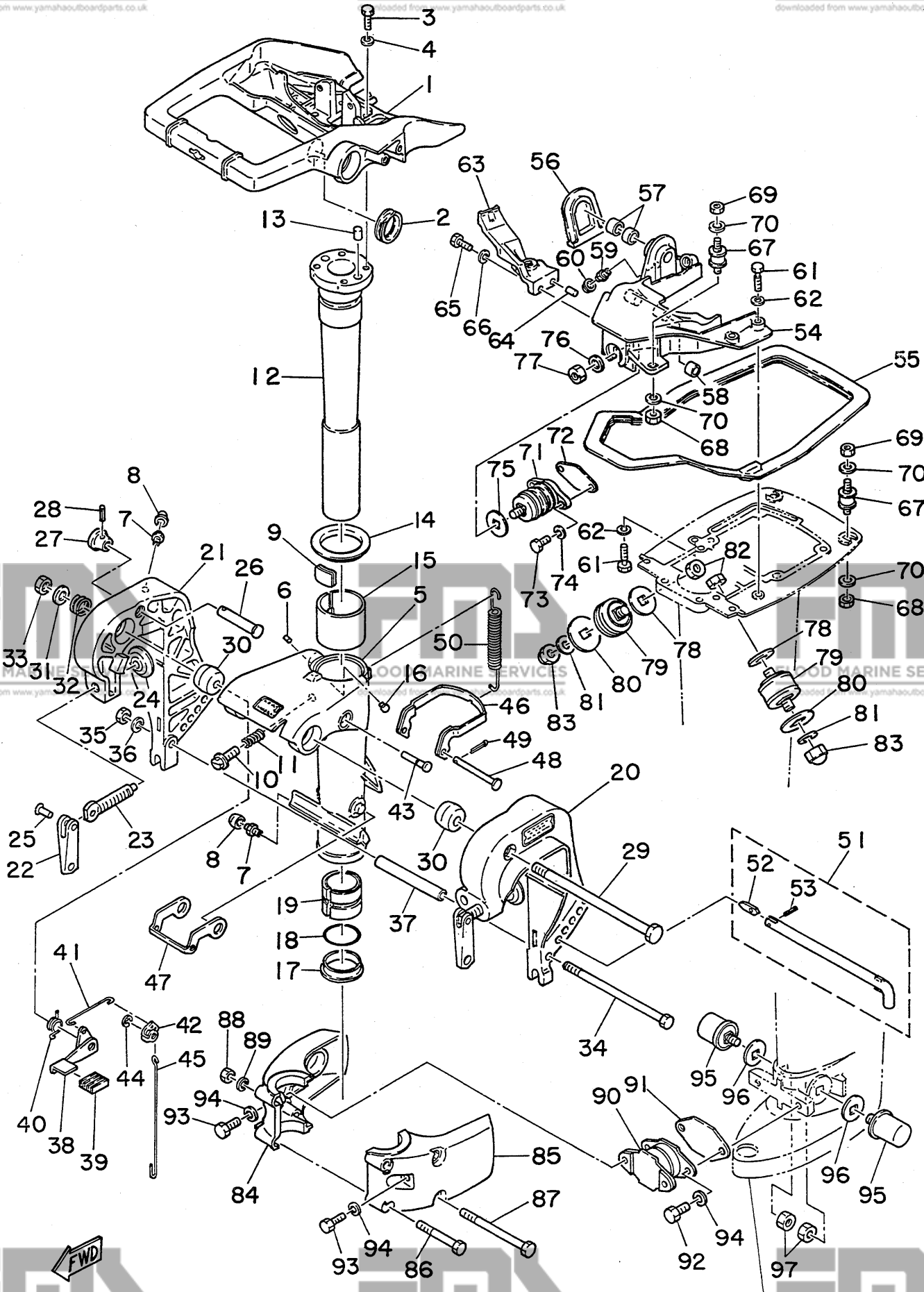

Fig. 6 Ref. No. 1

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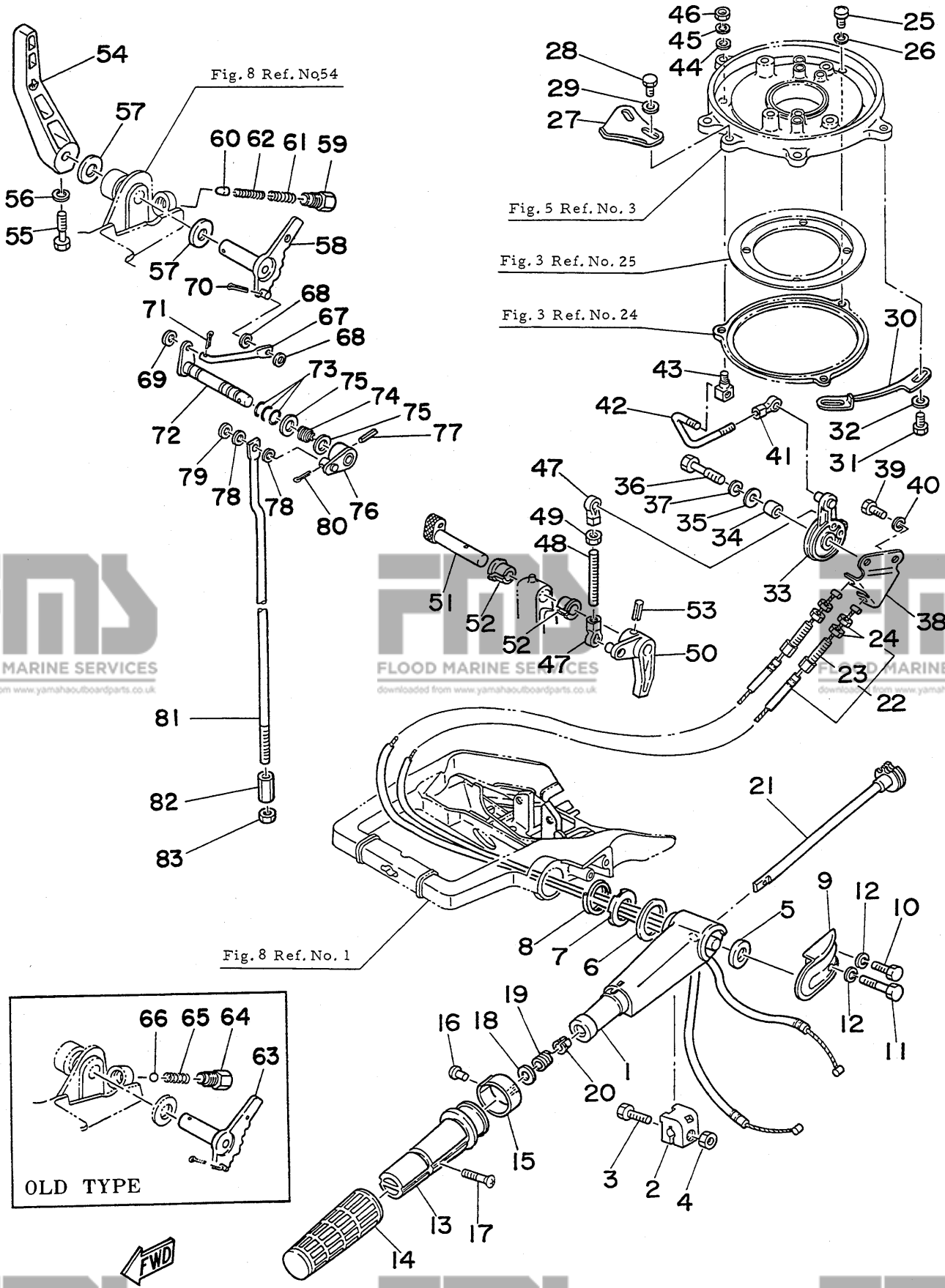
BRACKET - 1978

Ref.No.	Parts No.	Description	Q'ty
1	656-42511-01-F6	BRACKET, steering	1
2	90480-29045	GROMMET	1
3	97370-06020	BOLT	4
4	92990-06100	WASHER	4
5	656-43311-00-F6	BRACKET, swivel 1	1
6	90334-04002	PLUG, straight	1
7	93700-06004	NIPPLE, grease	2
8	663-45119-00	CAP, grease nipple	2
9	648-42528-00	PIECE, friction	1
10	90149-08005	SCREW	1
11	90501-16099	SPRING, compression	1
12 *	648-42521-01-94	SHAFT, steering pivot 1	1
⇧	648-42521-01-F6	SHAFT, steering pivot 1	1
13	93608-12063	PIN, dowel B (8ø-12mm)	2
14	90209-47016	WASHER	1
15	90386-47092	BUSHING	1
16	90241-03001	PIN, with head	1
17	90386-38022	BUSHING	1
18	93210-37160	O-RING (2.5ø-37ø)	1
19	90386-38090	BUSHING	1
20	656-43111-01-F6	BRACKET, clamp 1	1
21	656-43112-02-F6	BRACKET, clamp 2	1
22	616-43118-00-F6	HANDLE, transom clamp	2
23	90149-14030	SCREW	2
24	648-43114-01	PAD, transom clamp	2
25	90243-04001	PIN	2
26	656-43191-00	SHAFT, stopper	1
27 *	648-43192-00	KNOB, stopper	1
⇧	648-43192-00-F6	KNOB, stopper	1
28	91690-30016	PIN, spring	1
29	656-43131-00	BOLT, clamp bracket 1	1
30	648-43136-00	PIECE, friction	2
31	90201-10130	WASHER (10.5ø-20ø-1.5~1.6mm)	1
32	90504-59006	SPRING, compression	1
33	95380-10600	NUT	1
34	90101-08339	BOLT	1
35	95380-08600	NUT	1
36	92990-08100	WASHER	1
37	90387-09074	COLLAR (9.2ø-13.8ø-103mm)	1
38	656-43631-00	LEVER, tilt 1	1
39	648-43633-00	COVER, tilt lever 1	1
40	90508-16018	SPRING, torsion	1
41	648-43616-00	ROD, tilt lock 1	1
42	648-43642-00	LEVER, tilt 2	1
43	90249-06120	PIN	1
44	93430-05027	CIRCLIP (E-5ø)	1
45	648-43617-00	ROD, tilt lock 2	1
46 *	648-43614-00	PLATE, tilt lock 1	1
⇧	648-43614-00-F6	PLATE, tilt lock 1	1
47 *	648-43615-00	PLATE, tilt lock 2	1
⇧	648-43615-00-F6	PLATE, tilt lock 2	1
48	90240-05046	PIN, with hole	1
49	91490-16010	PIN, cotter	1
50	90506-30055	SPRING, tension	1
51	656-43160-01	TILT ROD ASS'Y	1
52	656-43165-01	. PLATE, tilt lock	1
53	91690-30008	. PIN, spring	1
54 *	648-44508-01-94	BRACKET COMP.	1
⇧	648-44508-01-F6	BRACKET COMP.	1
55	648-42716-00	SEAL, rubber 1	1
56	648-42718-00	SEAL, rubber 3	1
57	90380-12012	BUSHING	2
58	90380-10M01	BUSHING	2
59	93700-06004	NIPPLE, grease	1
60	663-45119-00	CAP, grease nipple	1
61	90101-06M09	BOLT	4
62	92990-06100	WASHER	4
63 *	648-44519-00-94	BRACKET 2	1
⇧	648-44519-00-F6	BRACKET 2	1
64	93606-12019	PIN, dowel B (6ø-12mm)	1
65	97370-06018	BOLT	1
66	92990-06100	WASHER	1
67	648-44517-00	MOUNT RUBBER, upper	4
68	95380-08700	NUT	4
69	95303-08700	NUT	4
70	92990-08600	WASHER	8
71	664-44516-00	MOUNT RUBBER, upper front	1
72	648-44592-00	GASKET, mount rubber 2	1
73	90101-06M08	BOLT	2
74	92990-06100	WASHER	2
75	648-44591-00	GASKET, mount rubber 1	1
76	92990-10200	WASHER	1
77	92880-10200	NUT	1
78	648-44591-00	GASKET, mount rubber 1	2
79	664-44514-00-94	MOUNT RUBBER, upper side 1	2
80	664-44591-00	GASKET, mount rubber 1	2
81	92990-10200	WASHER	2
82	92880-10200	NUT	2
83	92890-10700	NUT, crown	2
84	664-44551-00-F6	HOUSING, lower mount rubber 1	1
85	664-44552-00-F6	HOUSING, lower mount rubber 2	1
86	90101-08M18	BOLT	2
87	90101-08M19	BOLT	2
88	95380-08600	NUT	4
89	92990-08100	WASHER	4
90	648-44557-03	MOUNT RUBBER, lower front	1
91	648-44593-00	GASKET, mount rubber 3	1
92	90101-08M21	BOLT	2
93	90101-08M20	BOLT	2
94	92990-08100	WASHER	4
95	664-44555-00	MOUNT RUBBER, lower side	2
96	648-44591-00	GASKET, mount rubber 1	2
97	92880-10200	NUT	2

* New parts number

⇧ Superseded by new parts number

Fig. 9 CONTROL - 1978



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CONTROL - 1978

Ref.No.	Parts No.	Description	Q'ty
1	664-42111-01-F6	HANDLE, steering 1	1
2	656-42126-01	PIECE, friction	1
3	97370-06020	BOLT	1
4	90185-06062	NUT	1
5	90560-14076	SPACER (14ø-28ø-3mm)	1
6	90202-34043	WASHER (34ø-42ø-1.5mm)	1
7	656-42155-00	SPACER, handle 1	1
8	90501-20001	SPRING, compression	1
9	656-42112-00-F6	HANDLE, steering 2	1
10	97313-06020	BOLT	1
11	97313-06035	BOLT	1
12	92990-06100	WASHER	2
13	664-42119-00	GRIP, steering handle	1
14	647-42177-00	RUBBER, handle 1	1
15	664-42137-00	INDICATOR, throttle	1
16	90269-02001	RIVET	1
17	98180-05025	SCREW, ovalhead	1
18	92903-10600	WASHER	1
19	90501-23215	SPRING, compression	1
20	90386-08032	BUSHING	1
21	664-42138-00	LEVER, throttle	1
22	664-26311-01	THROTTLE WIRE COMP.	2
23	90123-06065	. BOLT, adjusting	2
24	90170-06183	. NUT	4
25	97803-05010	SCREW, panhead	3
26	92903-05100	WASHER	3
27	664-41213-00	CAM, accel.	1
28	97313-05010	BOLT	2
29	92903-05600	WASHER	2
30	664-41615-01	STOPPER, magneto base 1	1
31	97313-06012	BOLT	2
32	92903-06200	WASHER	2
33	664-41631-00-94	LEVER, magneto control	1
34	90387-06M02	COLLAR (6.3ø-10ø-10.5mm)	1
35	90387-06298	COLLAR (6.5ø-17ø-1.6mm)	1
36	97313-06030	BOLT	1
37	92903-06100	WASHER	1
38	664-14497-00	STAY, throttle wire	1
39	97323-06014	BOLT	1
40	92903-06100	WASHER	1
41 *	662-41237-01	JOINT, link 2	1
⇧	662-41237-00	JOINT, link 2	1
42	664-41636-00	ROD, magneto control	1
43	648-41635-00	SHAFT, link connecting	1
44	90201-05556	WASHER (5.2ø-15ø-2mm)	1
45	92903-05100	WASHER	1
46	95303-05600	NUT	1
47 *	662-41237-01	JOINT, link 2	2
⇧	662-41237-00	JOINT, link 2	2
48	90116-05220	BOLT, stud	1
49	95302-05600	NUT	1
50	664-42154-01-94	LEVER, throttle control	1
51 *	656-42153-00-94	SHAFT, throttle control	1
⇧	656-42153-00-F6	SHAFT, throttle control	1
52	90386-10009	BUSHING	2
53	91690-40018	PIN, spring	1
54	656-44111-01-F6	HANDLE, gear shift	1
55	90101-06M09	BOLT	1
56	92990-06100	WASHER	1
57	90202-12031	WASHER (12.2ø-24ø-0.7mm)	2
► 58 *	664-44113-00	CAM PLATE, handle	1
► 59 *	664-42715-00	BUSHING 2	1
► 60 *	664-44167-00	PLUNGER, shift cam	1
► 61 *	90501-14M07	SPRING, compression	1
► 62 *	90501-09M08	SPRING, compression	1
◄ 63	656-44113-01	CAM PLATE, handle	1
◄ 64	648-42715-00	BUSHING 2	1
◄ 65	90501-12333	SPRING, compression	1
◄ 66	93501-04011	BALL, steel (1/4")	1
67	664-44142-00	JOINT	1
68	90202-06007	WASHER (6ø-13ø-0.5mm)	2
69	92990-05600	WASHER	1
70	91490-16010	PIN, cotter	1
71	91490-12010	PIN, cotter	1
72	664-44121-02	LEVER, shift rod 1	1
73	93210-09M01	O-RING (0.9ø-8.5ø)	3
74	90508-14272	SPRING, torsion	1
75	90202-10024	WASHER (10.2ø-16ø-0.7mm)	2
76	664-44125-00	LEVER, shift rod 2	1
77	91690-40016	PIN, spring	1
78	90202-06007	WASHER (6ø-13ø-0.5mm)	2
79	92990-05200	WASHER	1
80	91490-20010	PIN, cotter	1
81	664-44143-00	ROD, shift 1	1
82	648-44146-00	CONNECTOR, shift rod 2	1
83	90170-07021	NUT	1

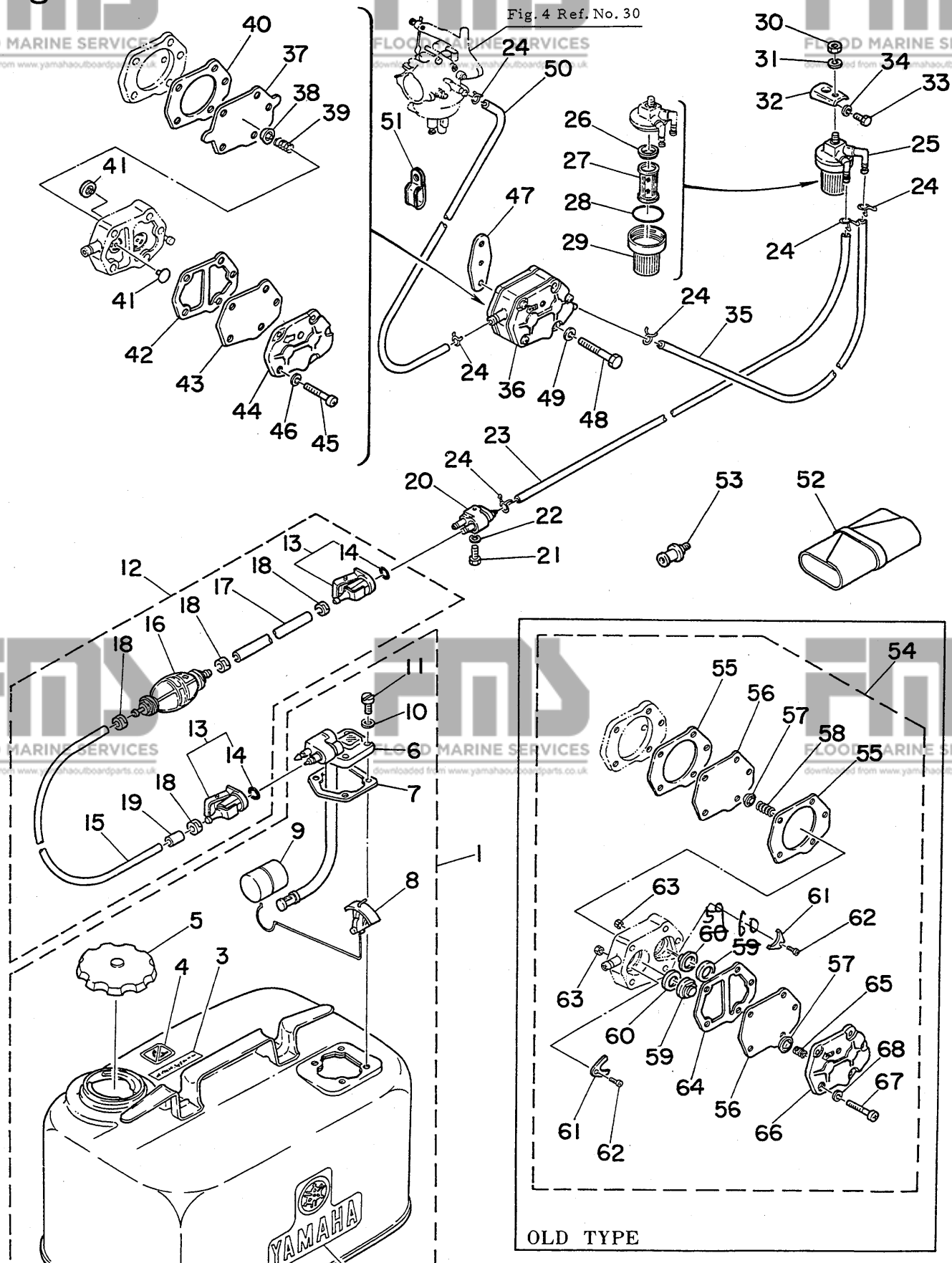
◄ { 28A S: 154805 and below L: 453230 and below 28AE S: 270940 and below L: 571825 and below

► { 28A S: 154806 and up L: 453231 and up 28AE S: 270941 and up L: 571826 and up

* New parts number

⇧ Superseded by new parts number

Fig. 10 FUEL SECTION - 1978



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FUEL SECTION -1978

Ref.No.	Parts No.	Description	Q'ty
▽ 1	* 656-24202-04-24	FUEL TANK ASS'Y	1
△ ※	656-24202-03-24	FUEL TANK ASS'Y	1
※	656-24202-90-24	FUEL TANK ASS'Y (For Brazil)	1
2	656-24244-01	. GRAPHIC, side	2
3	656-24245-00	. GRAPHIC	1
▽ 4	* 656-24248-00	. GRAPHIC	1
5	802-24610-00	. CAP ASS'Y	1
6	656-24275-03	. FUEL METER COMP.	1
7	663-24268-00	. GASKET, fuel meter housing	1
8	656-24241-03	. INDICATOR	1
9	663-24264-00	. FLOAT	1
10	630-24329-00	. SEAL	4
11	98380-05018	. SCREW, cylinderhead	4
12	* 663-24310-61	FUEL PIPE ASS'Y	1
⇧	663-24310-60	FUEL PIPE ASS'Y	1
13	* 655-24305-01	. FUEL PIPE JOINT COMP. 2	2
⇧	655-24305-00	. FUEL PIPE JOINT COMP. 2	2
14	93210-08287	. . O-RING (3.0ø-8.0ø)	2
15	* 90445-12M04	. HOSE (6ø-11.5ø-1900mm)	1
⇧	90445-12207	. HOSE (6ø-11.5ø-2400mm)	1
16	650-24360-01	. PRIMARY PUMP ASS'Y	1
17	90445-12155	. HOSE (6ø-11.5ø-1000mm)	1
18	650-24351-00	. BAND, fuel pipe	4
19	663-24397-00	. COLLAR	1
20	655-24304-02	FUEL PIPE JOINT COMP. 1	1
21	97313-06020	BOLT	1
22	92990-06100	WASHER	1
23	90445-09251	HOSE (5ø-9ø-350mm)	1
24	90467-08004	CLIP	6
25	655-24560-00	FILTER ASS'Y	1
■ 26	655-24564-00	. PACKING	1
27	655-24563-00	. ELEMENT, filter	1
■ 28	93210-35339	. O-RING (2ø-34.5ø)	1
29	655-24521-00	. CUP, filter	1
30	95303-08600	NUT	1
31	92903-08100	WASHER	1
32	648-24566-01	BRACKET, filter	1
33	97313-06014	BOLT	1
34	92903-06100	WASHER	1
35	664-24311-00	HOSE (5ø-9ø-110mm)	1
▽ 36	* 679-24410-00	FUEL PUMP ASS'Y	1
▽ 37	648-24411-00	. DIAPHRAGM, pump	1
▽ 38	648-24424-00	. PLATE, spring guide	1
39	648-24423-00	. SPRING, pump diaphragm	1
▽ 40	648-24434-00	. GASKET, body 1	1
▽ 41	* 663-24421-00	. VALVE, check	2
42	648-24435-02	. GASKET, body 2	1
▽ 43	* 663-24411-00	. DIAPHRAGM, pump	1
44	648-24413-01	. COVER, pump	1
45	98503-05028	. SCREW, panhead	3
46	92990-05100	. WASHER	3
■ 47	650-24431-00	GASKET, fuel pump	1
48	97313-06040	BOLT	2
49	92903-06100	WASHER	2
50	648-24312-01	HOSE 2 (6ø-10ø-150mm)	1
51	90461-06015	CLAMP	1
52	670-28100-60	TOOL ASS'Y	1
53	626-28193-01-94	PLUG, water check 1 (Option)	1

OLD TYPE

△ 54	663-24410-00	FUEL PUMP ASS'Y	1
△ 55	648-24434-00	. GASKET, body 1	2
△ 56	648-24411-00	. DIAPHRAGM, pump	2
△ 57	648-24424-00	. PLATE, spring guide	2
58	648-24423-00	. SPRING, pump diaphragm	1
△ 59	648-24421-00	. VALVE SUB-ASS'Y	2
△ 60	648-24431-00	. GASKET	2
△ 61	648-24422-01	. PLATE	2
△ 62	98503-03008	. SCREW, panhead	2
△ 63	95313-03600	. NUT	2
64	648-24435-02	. GASKET, body 2	1
65	648-24454-00	. SPRING	1
△ 66	648-24413-01	. COVER, pump	1
67	98503-05028	. SCREW, panhead	3
68	92990-05100	. WASHER	3

△ { 28A S: 151345 and below 28AE S: 270310 and below
L: 451125 and below L: 570795 and below

▽ { 28A S: 151346 and up 28AE S: 270311 and up
L: 451126 and up L: 570796 and up

* New parts number

※ Not shown

⇧ Superseded by new parts number

■ Contents of power head gasket kit (Parts No. 664-W0001-10)

Fig. 11 ELECTRIC MOTOR (28AE MODEL) -1978

Ref.No.	Parts No.	Description	Q'ty
1	648-81800-41	ELECTRIC MOTOR ASS'Y	1
2	648-81860-41	. MAGNETIC SWITCH 1	1
3	648-81830-41	. GEAR CASE ASS'Y	1
4	648-81828-40	. BOLT 2	1
5	92903-06100	. WASHER	1
6	95301-06600	. NUT	1
7	648-81846-40	. BOLT 3	3
8	648-81829-40	. GROMMET	1
9	648-81809-40	. WASHER KIT	1s
10	648-81839-40	. LEVER, shift	1
11	648-81832-40	. GEAR ASS'Y (11T)	1
12	648-81850-40	. ARMATURE ASS'Y 1	1
13	648-81810-40	. STATOR ASS'Y	1
14	648-81862-40	. CAP	1
15	648-81811-40	. BRUSH 1 (+)	1
16	648-81812-40	. BRUSH 2 (-)	1
17	648-81813-40	. SPRING, brush	2
18	648-81814-40	. SPRING, friction piece	1
19	648-81827-40	. PIECE, friction	1
20	648-81820-40	. REAR COVER ASS'Y	1
21	648-81826-40	. BOLT	2
22	92903-05100	. WASHER	5
23	98503-04012	. SCREW, panhead	2
24	92901-04100	. WASHER	2
25	97313-06040	BOLT	1
26	648-81893-40	SHIM, gear adjusting	1

The following parts are not used when using the electric motor.

2-25	656-15772-00-94	STAY 2	1
4-11	97313-06035	BOLT	1

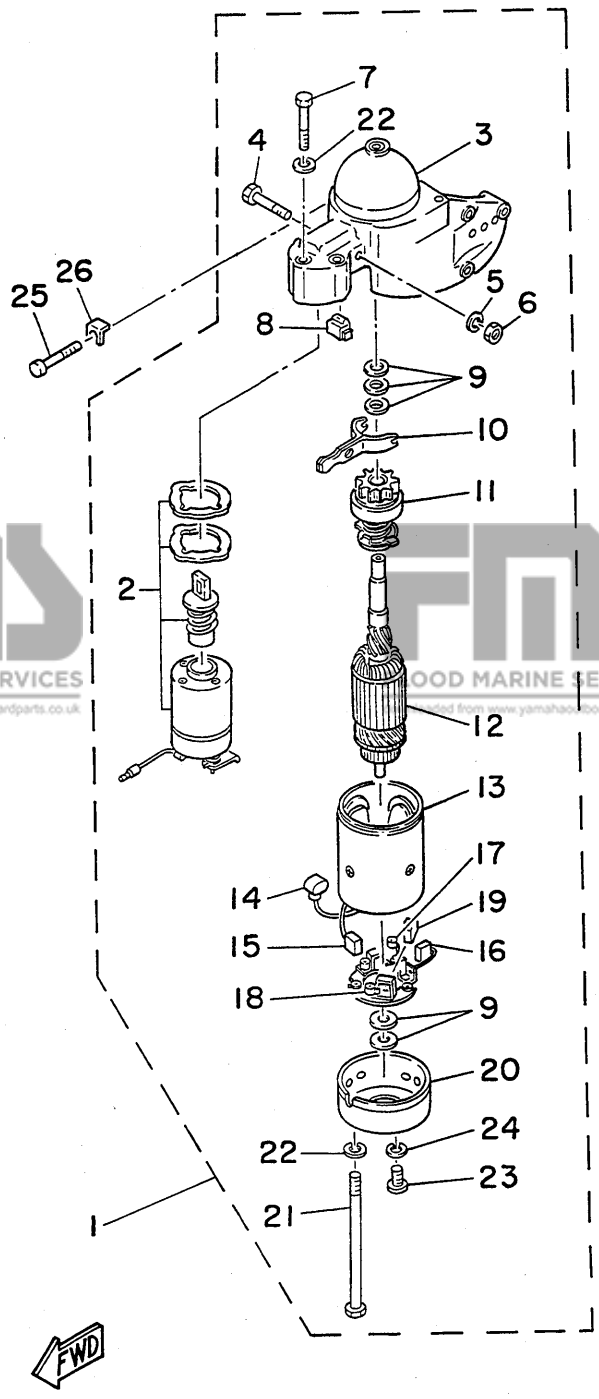
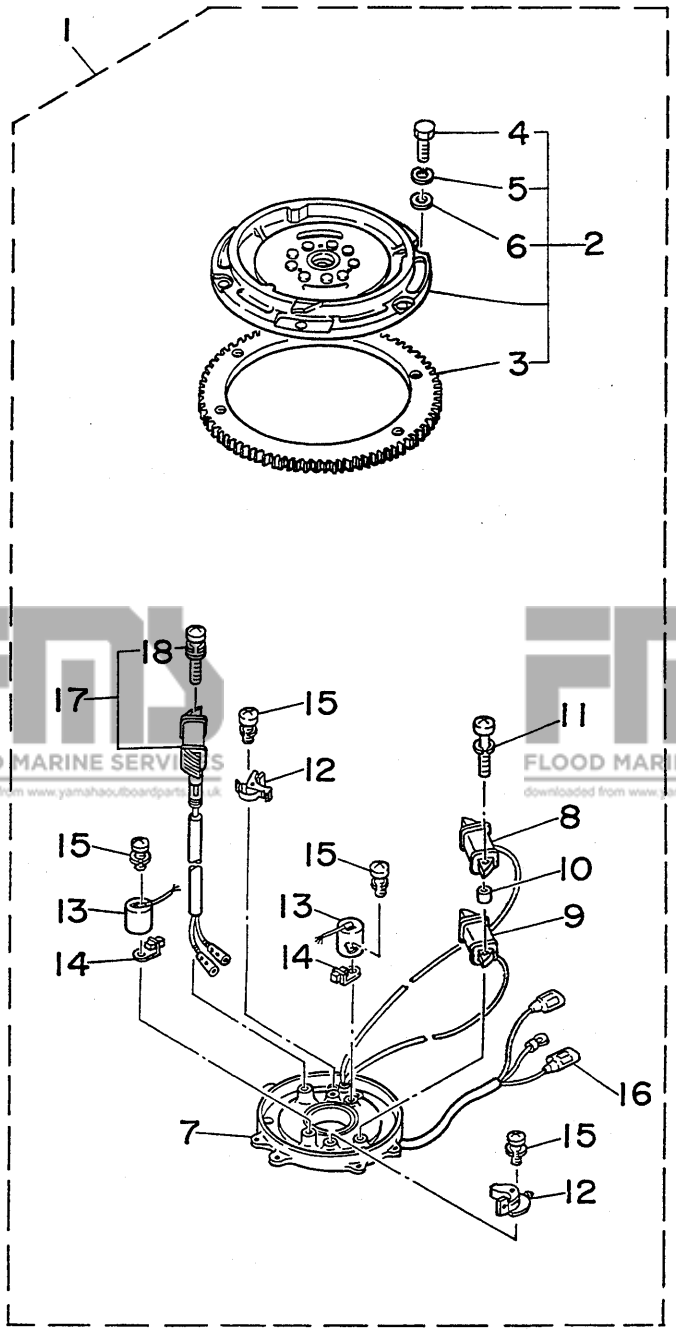


Fig. 12 FLYWHEEL MAGNETO (28AE MODEL)-1978



Ref.No.	Parts No.	Description	Q'ty
1	648-81300-63	FLYWHEEL MAGNETO ASS'Y	1
2	648-81350-11	. ROTOR ASS'Y	1
3	648-81891-00	. . GEAR, ring	1
4	97303-06018	. . BOLT	6
5	92903-06100	. . WASHER	6
6	92903-06200	. . WASHER	6
7	648-81309-12	. BASE, magneto	1
8	647-81311-10	. COIL, ignition 1	1
9	647-81312-10	. COIL, ignition 2	1
10	647-81318-10	. TUBE	2
11	647-81323-10	. SCREW (M5-35mm)	2
12	650-81321-10	. CONTACT BREAKER ASS'Y	2
13	647-81325-11	. CONDENSER	2
14	207-81331-10	. LUBRICATOR	2
15	164-81246-21	. SCREW	4
16	648-81315-10	. LEAD WIRE ASS'Y	1
17 *	677-81303-60	. LIGHTING COIL ASS'Y	1
⇧	647-81313-41	. COIL, lighting	1
18	647-81324-10	. . SCREW (M5-30mm)	2
The following parts are not used when using the flywheel magneto (with gear ring).			
5- 1	656-81300-61	FLYWHEEL MAGNETO ASS'Y	1

* New parts number

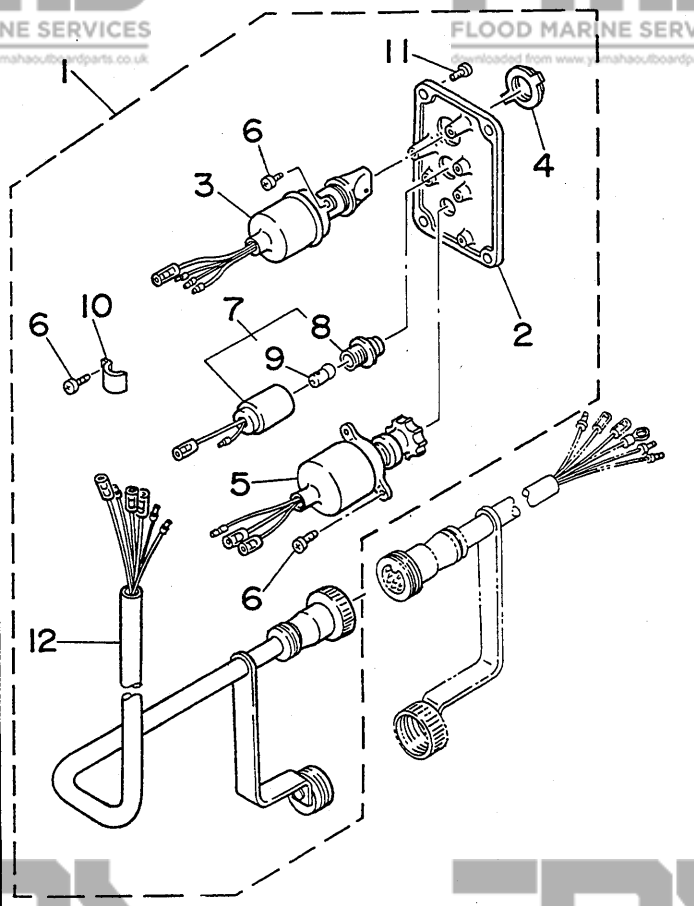
⇧ Superseded by new parts number

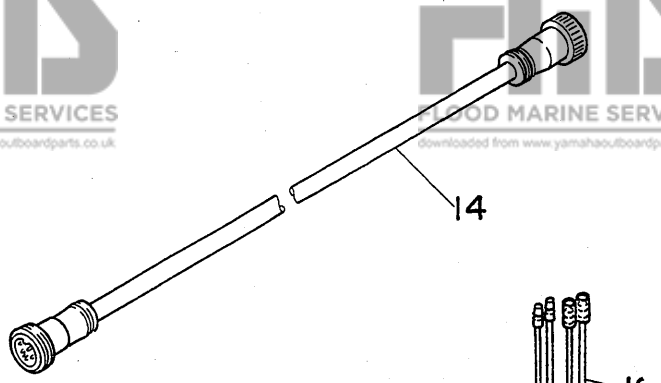
Fig. 13 SWITCH PANEL (28AE MODEL) -1978

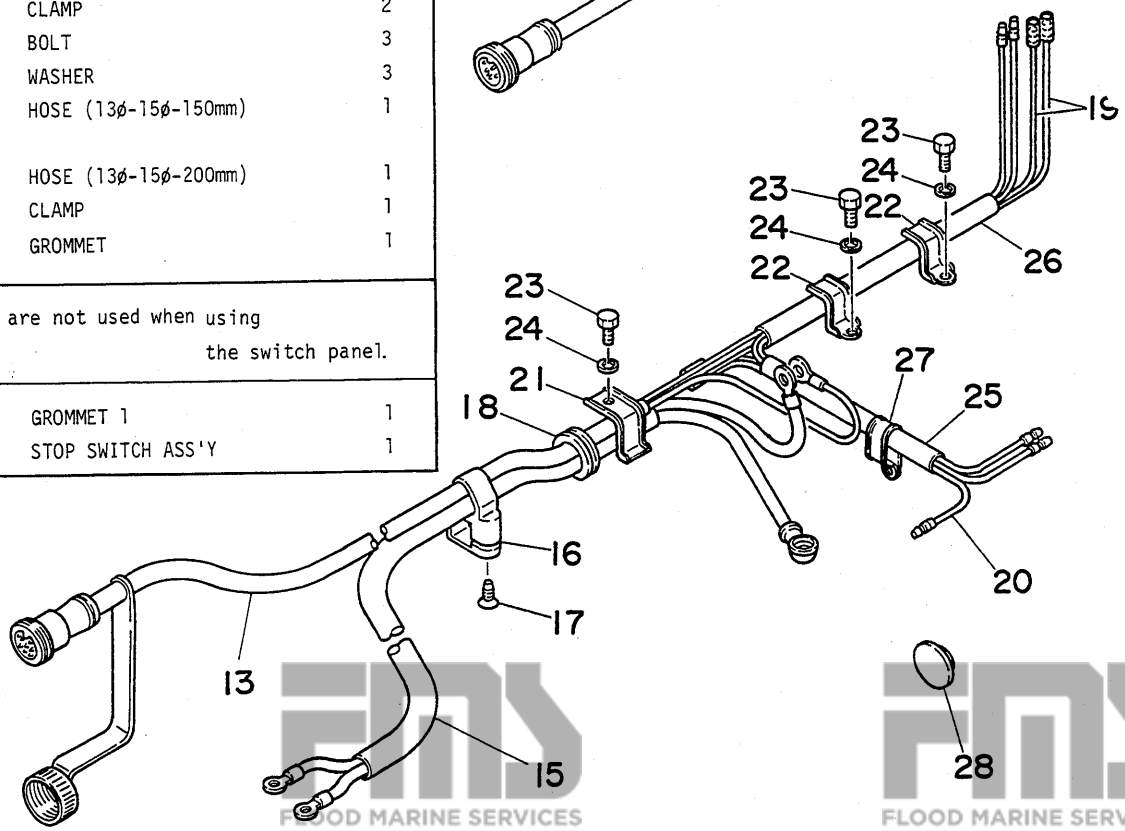
Ref.No.	Parts No.	Description	Q'ty
1	648-82570-40	SWITCH PANEL ASS'Y	1
2	648-82571-40	. PANEL, switch	1
3	648-82508-40	. MAIN SWITCH ASS'Y	1
4	648-82584-40	. CAP, switch	1
5	648-82502-41	. SUB-SWITCH ASS'Y	1
6	648-82573-40	. SCREW, special 2	6
7	648-84301-40	. PILOT LAMP ASS'Y	1
8	648-83583-40	. . LENS, pilot	1
9	123-83516-21	. . BULB, pilot (12V-3W)	1
10	648-82594-40	. CLAMP, wire harness	1
11	648-82572-40	. SCREW, special 1	4
12	648-82580-40	. WIRE HARNESS ASS'Y 2	1
13	664-82590-00	WIRE HARNESS ASS'Y (2200mm)	1
14	656-82586-40	EXTENSION, wire harness (3000mm)	1
15	664-82105-00	LEAD WIRE ASS'Y (1800mm)	1
16	90464-18018	CLAMP	1
17	90161-06001	SCREW, flathead tapping	1
18	664-42724-40	GROMMET 1	1
19	664-82521-00	WIRE, lead 1 (470mm)	2
20	664-82531-00	WIRE, lead 2 (250mm)	1
21	90465-10071	CLAMP	1
22	90462-10018	CLAMP	2
23	97313-06014	BOLT	3
24	92903-06100	WASHER	3
25	90446-15105	HOSE (13ø-15ø-150mm)	1
26	90446-15104	HOSE (13ø-15ø-200mm)	1
27	90461-06015	CLAMP	1
28	90480-17165	GROMMET	1

The following parts are not used when using the switch panel.

1-21	664-42724-00	GROMMET 1	1
1-23	664-82550-00	STOP SWITCH ASS'Y	1



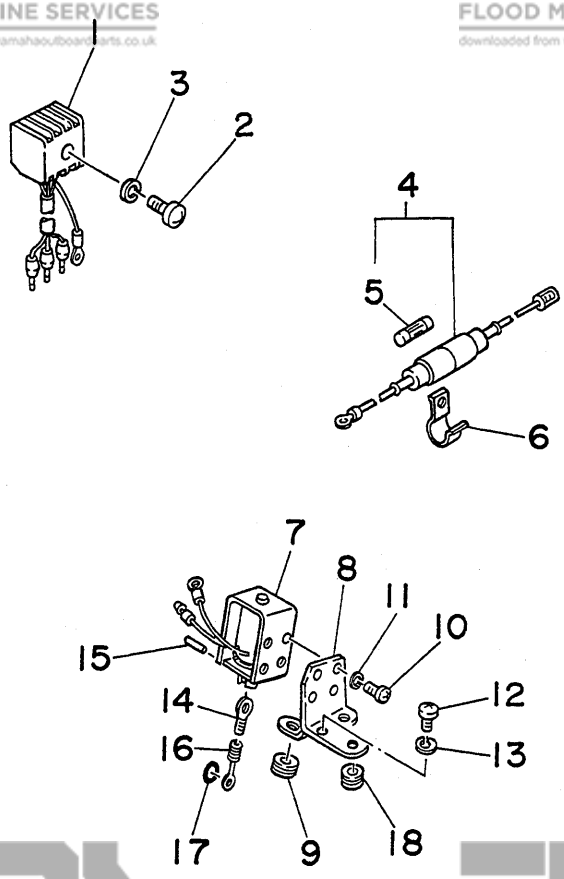




FWD

28A/28AE

Fig. 14 ELECTRIC PARTS (28AE MODEL) -1978



Ref.No.	Parts No.	Description	Q'ty
1	664-81970-60	RECTIFIER ASS'Y	1
2	97803-05025	SCREW, panhead	1
3	92903-05100	WASHER	1
4	664-82150-01	FUSE HOLDER ASS'Y	1
5	663-82151-00	. FUSE (12V-20A)	1
6	90462-10021	CLAMP	1
7	664-86111-~~00~~ 01	SOLENOID ASS'Y	1
8	664-86112-00	STAY, solenoid	1
9	648-86115-40	GROMMET	1
10	98503-03006	SCREW, panhead	4
11	92903-03100	WASHER	4
12	97803-05012	SCREW, panhead	2
13	92903-05100	WASHER	2
14	~~663~~-86117-00	HOOK, wire pull	1
15	91690-30010 676	PIN, spring	1
16	664-86116-00	WIRE, pull	1
17	93210-03261	O-RING (1.2ø-2.8ø)	1
18	90480-10155	GROMMET	1
19	656-15774-41	STAY 4	1
20	97313-06012	BOLT	1
21	92903-06100	WASHER	1
22	656-82540-41	NEUTRAL SWITCH ASS'Y	1
► 23	* 664-42738-00	PLATE, fitting	1
► 24	* 664-42748-00	GROMMET	1
► 25	* 664-42798-00	RIVET	2

The following parts are not used when using the neutral switch ass'y.

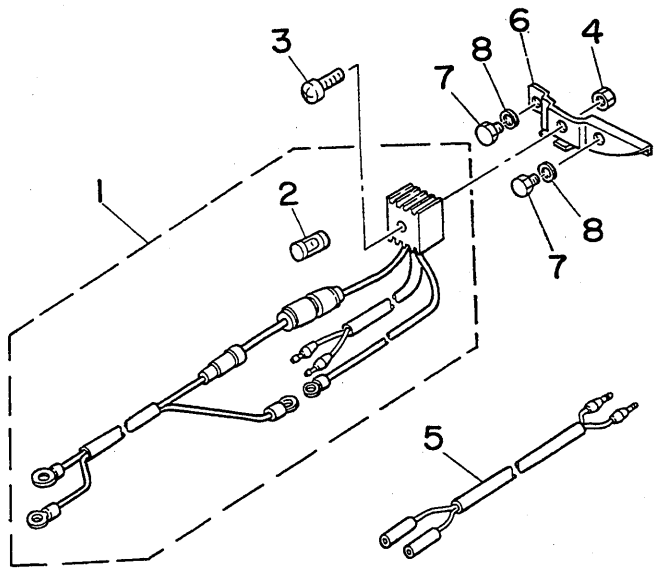
2-48	656-15774-00	STAY 4	1
2-49	97313-06012	BOLT	1
2-50	92903-06100	WASHER	1

► { 28AE S: 270941 and up
L: 571826 and up

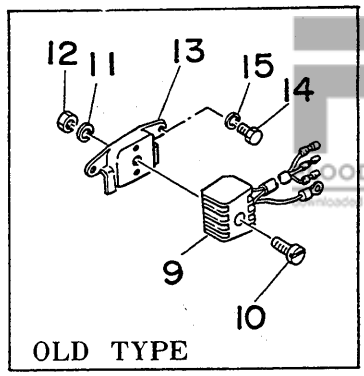
* New parts number

Fig. 1 Ref. No. 13

Fig. 15 ELECTRIC PARTS -1978



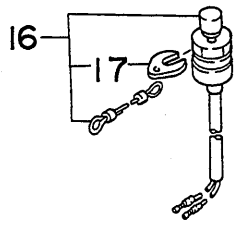
Ref.No.	Parts No.	Description	Q'ty
► 1 *	676-81970-00	RECTIFIER ASS'Y	1
► 2 *	663-82151-00	. FUSE (12V-20A)	1
► 3 *	97803-05025	SCREW, panhead	1
► 4 *	95303-05600	NUT	1
► 5 *	679-82553-G0	EXTENSION, wire lead	1
► 6 *	664-81975-00	PLATE, rectifier fitting	1
► 7 *	97313-06010	BOLT	2
► 8 *	92903-06600	WASHER	2
◄ 9	664-81970-60	RECTIFIER ASS'Y	1
◄ 10	98380-05018	SCREW, cylinderhead	1
◄ 11	92903-05100	WASHER	1
◄ 12	95380-05600	NUT	1
◄ 13	664-81975-40	PLATE, rectifier fitting	1
◄ 14	97313-06012	BOLT	2
◄ 15	92990-06100	WASHER	2
16	664-82575-41	KILL SWITCH ASS'Y	1
17	663-82556-70	. STOPPER	1
18	664-82521-00	WIRE, lead 1	2
19	616-83180-30	CONCENT 2P ASS'Y	1

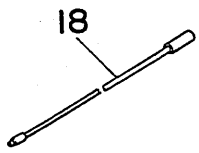


◄ { 28A S: 154805 and below 28AE S: 270940 and below
L: 453230 and below L: 571825 and below

► { 28A S: 154806 and up 28AE S: 270941 and up
L: 453231 and up L: 571826 and up

* New parts number





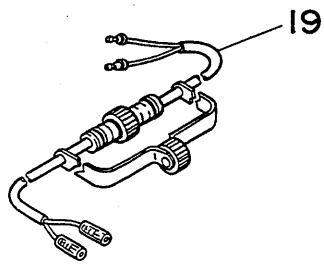
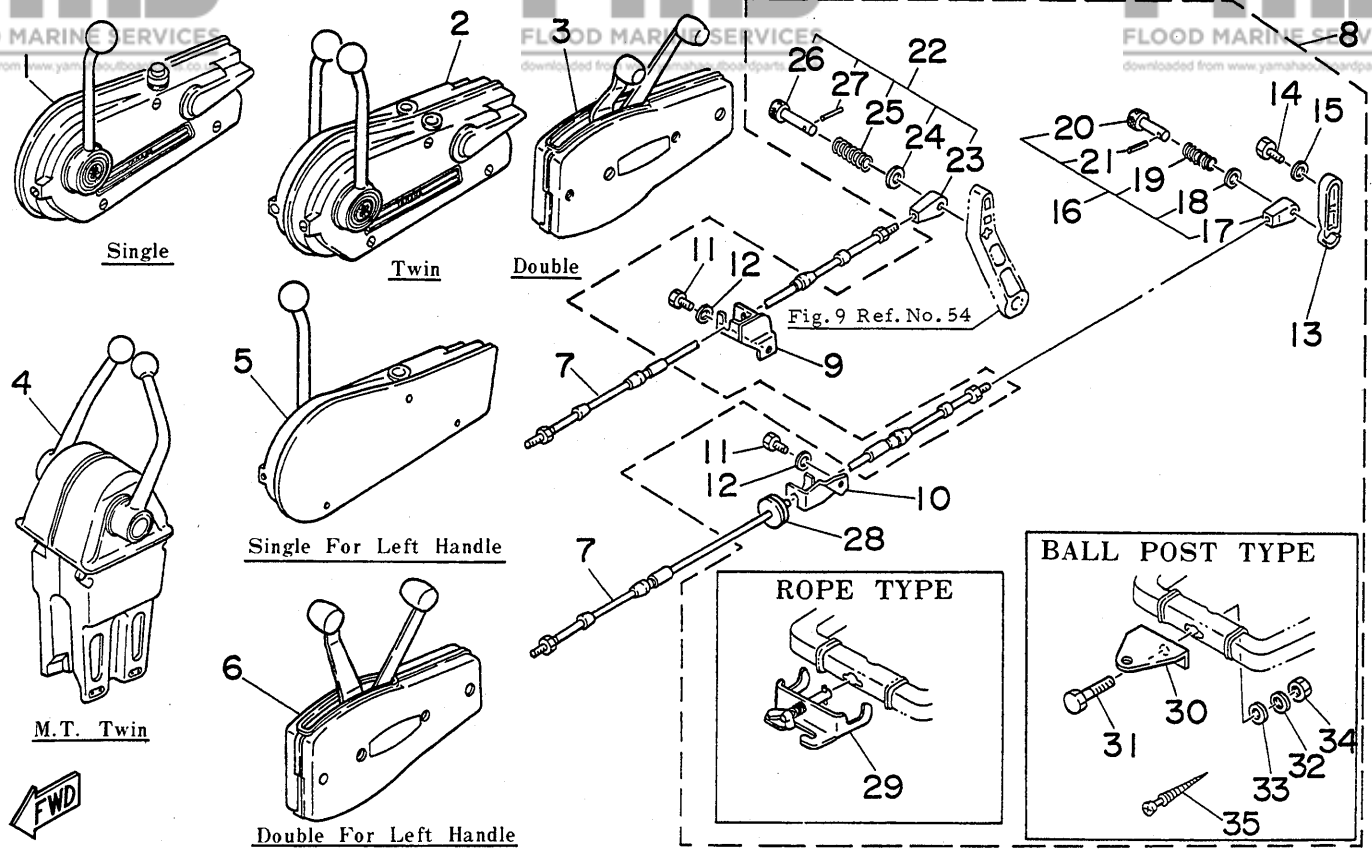


Fig. 16 REMOTE CONTROL -1978



Ref.No.	Parts No.	Description	Q'ty
▲ 1	701-48110-10	REMOTE CONTROL ASS'Y 1	1
▲ 2	701-48110-20	REMOTE CONTROL ASS'Y 2	1
▲ 3	701-48110-30	REMOTE CONTROL ASS'Y 3	1
4	701-48110-80	REMOTE CONTROL ASS'Y 8	1
5	701-48120-10	REMOTE CONTROL ASS'Y 1	1
6	701-48120-30	REMOTE CONTROL ASS'Y 3	1
7	701-48310-10	CABLE, remote control 6F	2
	701-48310-20	CABLE, remote control 7F	2
	701-48310-40	CABLE, remote control 8F	2
	701-48310-60	CABLE, remote control 9F	2
	701-48310-90	CABLE, remote control 11F	2
	701-48320-00	CABLE, remote control 12F	2
	701-48320-20	CABLE, remote control 13F	2
	701-48320-30	CABLE, remote control 14F	2
	701-48320-50	CABLE, remote control 15F	2
	701-48320-60	CABLE, remote control 16F	2
	701-48320-80	CABLE, remote control 17F	2
	701-48320-90	CABLE, remote control 18F	2
8	656-48501-01	ATTACHMENT ASS'Y (Rope Type) (Ref. No. 9 to 29)	1
	656-48501-11	ATTACHMENT ASS'Y(Ball Post Type) (Ref. No. 9 to 28, 30 to 35)	1
9	656-48531-50	. BRACKET, remote control 1	1
10	656-48532-50	. BRACKET, remote control 2	1
11	90101-06M08	. BOLT	2
12	92990-06600	. WASHER	2

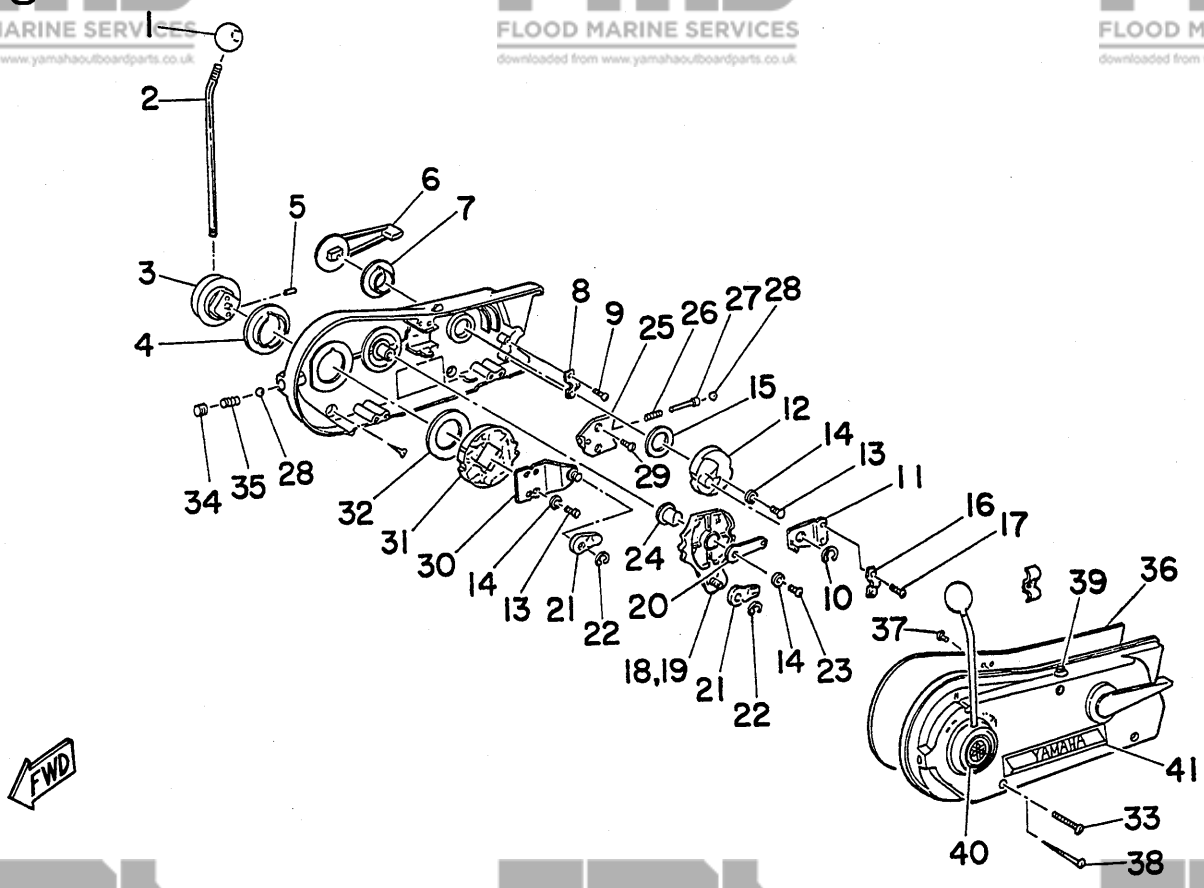
Ref.No.	Parts No.	Description	Q'ty
13	648-48534-50-94	. THROTTLE LEVER, control	1
⇧	648-48534-50-F6	. THROTTLE LEVER, control	1
14	97370-06012	. BOLT	1
15	92990-06600	. WASHER	1
16	648-48340-50	. CABLE END ASS'Y	1
17	617-48346-90	. . CABLE END, remote control	1
18	92990-08200	. . WASHER	1
19	90501-10264	. . SPRING, cable hook	1
20	617-48361-90	. . HOOK, cable 2	1
21	91690-30012	. . PIN, spring	1
22	648-48330-50	. CABLE END ASS'Y	1
23	648-48346-50	. . CABLE END, remote control	1
24	92990-08200	. . WASHER	1
25	90501-10071	. . SPRING, cable hook	1
26	617-48331-90	. . HOOK, cable 1	1
27	91690-30012	. . PIN, spring	1
28	90480-22039	. GROMMET	1
		ROPE TYPE	
29	700-48510-12	. STEERING HOOK ASS'Y	1
		BALL POST TYPE	
30	648-48511-00	. HOOK, steering	1
31	90101-10M27	. BOLT	1
32	92990-10100	. WASHER	1
33	92990-10600	. WASHER	1
34	95380-10600	. NUT	1
35	95480-51075	. SCREW, ovalhead wood	2

▲ See Fig. 17 for detail service parts.

⇧ Superseded by new parts number

28A/28AE

Fig. 17 REMOTE CONTROL ASS'Y -1978



Ref.No.	Parts No.	Description	Q'ty Single	Q'ty Twin
※	701-48110-10	REMOTE CONTROL ASS'Y (See Fig. 16, Ref. No. 1)	1	-
※	701-48110-20	REMOTE CONTROL ASS'Y (See Fig. 16, Ref. No. 2)	-	1
1	701-48118-10	. GRIP, shift lever	1	2
2	701-48137-10	. LEVER, control	1	2
3	701-48114-10	. BOSS, control lever	1	2
4	701-48116-10	. BUSHING	1	2
5	701-48127-10	. SCREW	1	2
6	701-48152-10	. KNOB, free accel.	1	2
7	701-48191-10	. WASHER 1	1	2
8	701-48352-10	. ANCHOR, cable	1	2
9	90146-05004	. SCREW, ovalhead	2	4
10	93430-10025	. CIRCLIP (E-10ø)	1	2
11	701-48133-10	. PLATE, link	1	2
12	701-48153-10	. SHAFT, free accel.	1	2
13	90146-06003	. SCREW, ovalhead	3	6
14	92990-06300	. WASHER, tooth	3	6
15	701-48191-10	. WASHER 1	1	2
16	701-48352-10	. ANCHOR, cable	1	2
17	90146-05004	. SCREW, ovalhead	2	4
18	701-48148-10	. LEVER, shift	-	1
19	701-48136-10	. LEVER, shift	1	1
20	701-48147-10	. PLATE, lock	1	2
21	701-48345-30	. CABLE END, remote control	2	4
22	93430-06024	. CIRCLIP (E-6ø)	2	4
23	90140-05008	. SCREW	1	2
24	701-48165-10	. BUSHING	1	2
25	701-48189-10	. RETAINER	1	2
26	701-48159-10	. ~~BUSHING~~ Spring 2	1	2
27	701-48155-10	. PLUNGER	1	2
28	93503-08025	. BALL, steel	2	4
29	90141-05005	. SCREW	2	4
30	701-48132-10	. LEVER, throttle 2	1	2
31	701-48131-10	. LEVER, throttle 1	1	2
32	701-48196-10	. WASHER, wave	1	2
33	90130-05002	. SCREW	-	3
34	701-48171-10	. BOLT	1	2
35	701-48158-10	. SPRING	1	2
36	701-48119-10	. COVER	1	1
37	90140-05009	. SCREW	3	-
38	90130-05003	. SCREW	3	-
39	701-82550-50	. STOP SWITCH ASS'Y	1	2
40	701-48125-50	. MARK 1	1	1
41	701-48126-50	. MARK 2	1	1

※ Not shown

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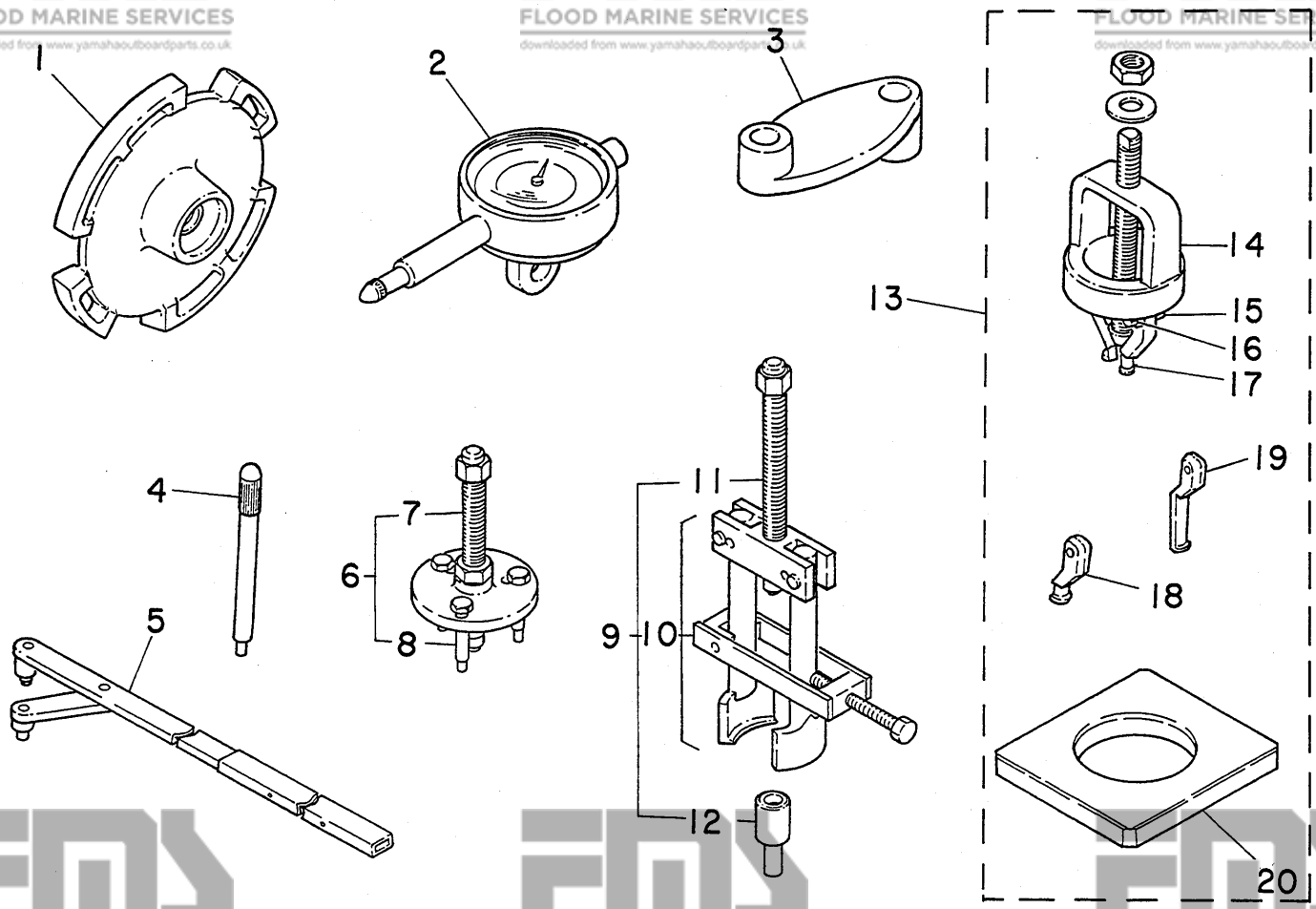
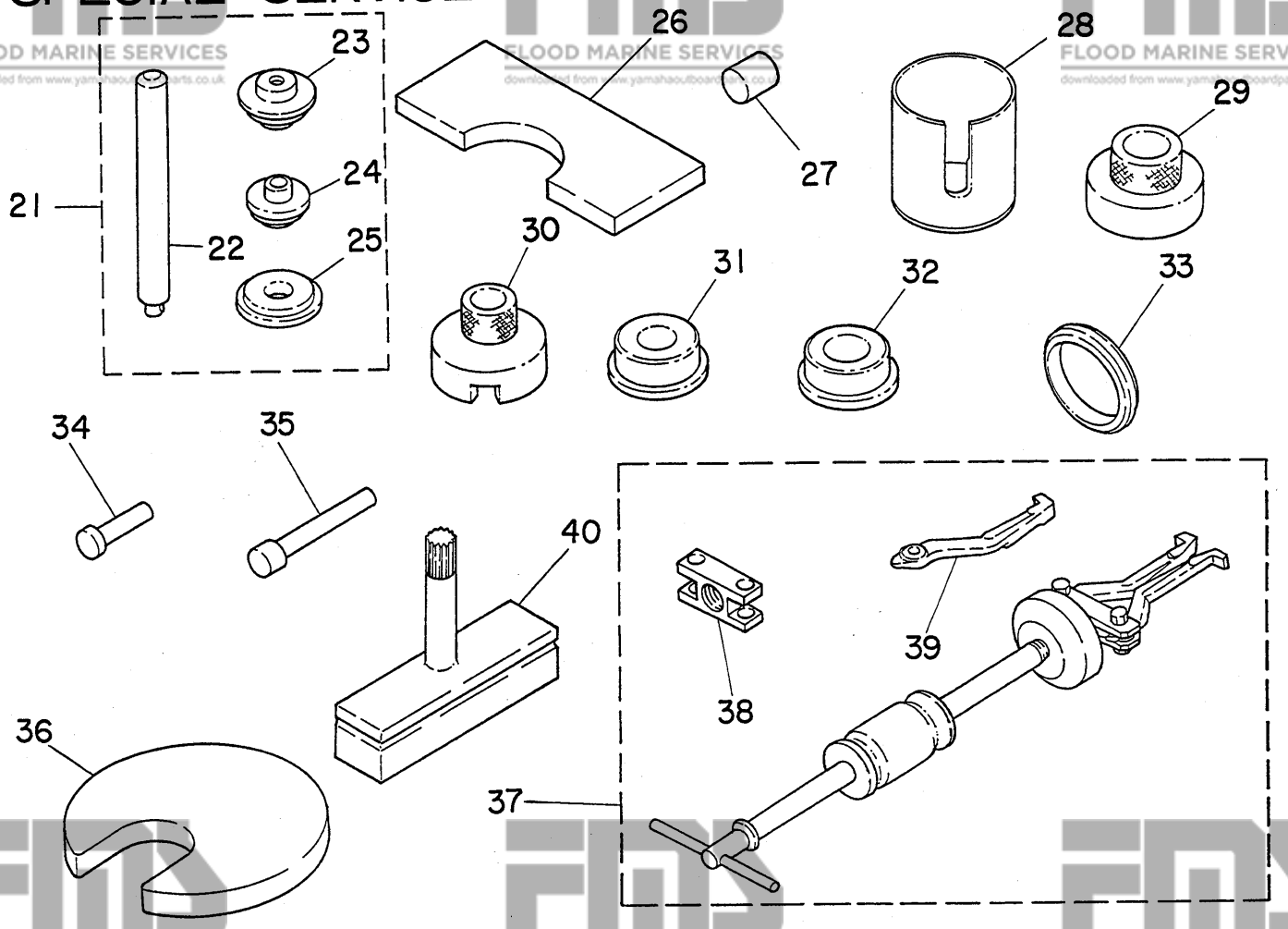
Fig. 18 SPECIAL SERVICE TOOLS-1978



Ref. No.	Parts No.	Description	Q'ty	Applicable Machine	Remarks
1	90890-01613	TEST PROPELLER	1	※	
2	90890-03097	DIAL GAUGE (1/100mm)	1	※※	
3	90890-01037	STAND 1, dial gauge	1	※※	
4	90890-03098	PLUNGER, dial gauge (56mm)	1	※※	
5	90890-06139	FLYWHEEL MAGNETO HOLDER ASS'Y	1s	※※	
6	90890-06117	FLYWHEEL MAGNETO PULLER ASS'Y	1s	※※	
7	90890-06003	. BOLT, center	1	※※	
8	90890-06118	. CENTER BOLT, flywheel puller	3	※※	
9	90890-06136	CRANK SHAFT BEARING PULLER ASS'Y	1s	※※	
10	90890-06137	. HANGER, bearing puller	1	※※	
11	90890-06003	. BOLT, center	1	※※	
12	90890-06007	. CASE, adjusting	1	※※	
13	90890-06120	BEARING PULLER ASS'Y	1s	※※	
14	90890-06033	. BOLT, center	1	※※	
15	90890-06009	. HANGER, claw	1	※※	
16	90890-06034	. PIN	2	※※	
17	90890-06035	. CLAW A	2	※※	
18	90890-06036	. CLAW B	2	※※	
19	90890-06089	. CLAW	2	※※	20A,25A,25B,28A
20	90890-06073	. PLATE	1	※※	20A,25A,25B,28A

Tools with ※ marks are for the use of 28A/28AE.
Tools with ※※ marks are for common use.

SPECIAL SERVICE TOOLS - 1978



Ref. No.	Parts No.	Description	Q'ty	Applicable Machine	Remarks
21	90890-06121	BEARING INSTALLING TOOL ASS'Y	1s	※※	
22	90890-06013	. HANDLE	1	※※	
23	90890-06016	. ATTACHMENT C	1	※※	
24	90890-06017	. ATTACHMENT D	1	※※	
25	90890-06018	. GUIDE X	1	※※	
26	90890-02345	SUPPORT A	1	※※	
27	90890-06106	BEARING CON-ROD SMALL END INSTALLATION	1	※※	
28	90890-02329	BODY 1	1	※※	
29	90890-02330	BODY, press 1	1	※※	
30	90890-02331	BODY, press 2	1	※※	
31	90890-02333	SPACER B (d=25ø)	2	※※	
32	90890-02334	SPACER C (d=33ø)	1	※※	20A,25A,25B,28A
33	90890-02337	RING, spacer B (t=16mm)	1	※※	20A,25A,25B,28A
34	90890-02340	PIN, press A	1	※※	
35	90890-02341	PIN, press B	1	※※	
36	90890-02343	PLATE B	2	※※	20A,25A,25B,28A
37	90890-06096	SLIDE HAMMER PULLER ASS'Y	1	※※	
38	90890-06077	. HANGER	1	※※	
39	90890-06092	. CLAW, slide hammer puller	3	※※	
40	90890-06135	POWER UNIT STAND	1	※※	

Tools with ※ marks are for the use of 28A/28AE.
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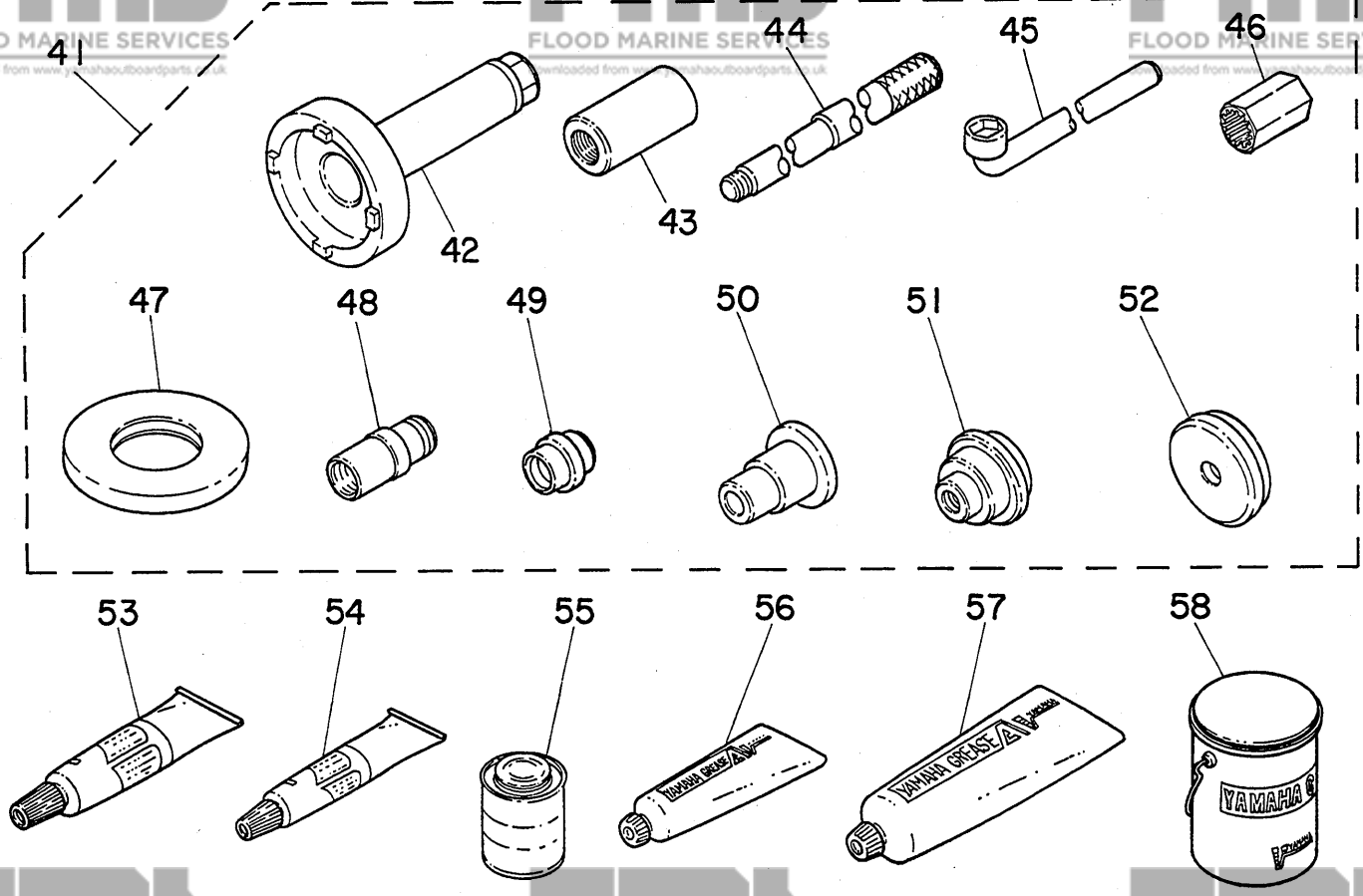
SPECIAL SERVICE TOOLS - 1978



Ref. No.	Parts No.	Description	Q'ty	Applicable Machine	Remarks
41	90890-06086	28A TOOL KIT	1s	※	
42	90890-06075	. TORQUING TOOL, housing nut	1	※	
43	90890-06076	. PULLER, head	1	※	
44	90890-06071	. ROD, driver	1	※	
45	90890-06078	. WRENCH, pinion nut (B-12)	1	※	
46	90890-06079	. TORQUING TOOL, pinion nut	1	※	
47	90890-06080	. PLATE, needle bearing	1	※	
48	90890-06081	. ATTACHMENT, lower case	1	※	
49	90890-06082	. ATTACHMENT, housing	1	※	
50	90890-06083	. ATTACHMENT, housing	1	※	
51	90890-06084	. ATTACHMENT, housing oil seal	1	※	
52	90890-06085	. DRIVER HEAD, housing outer race	1	※	
		YAMAHA BOND			
53	90890-05143	YAMAHA BOND 4	U.R.		200g
54	90890-05144	YAMAHA BOND 5			150g
55	90890-05074	YAMAHA BOND 7			100g
		YAMAHA GREASE			
56	* 90890-69910	YAMAHA GREASE A	U.R.		50g
57	* 90890-69911	YAMAHA GREASE A			250g
58	* 90890-69912	YAMAHA GREASE A			4kg

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* New parts number

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INTERCHANGEABILITY LIST

The following list shows the standard parts (Bolt, Washer etc.) which are newly added to this catalog and are interchangeable with the old standard parts. As new parts are listed only in each section of the catalog, please refer to this list when you order these parts. (You will not need to order new parts if you have stock of the old ones as they are completely interchangeable each other.)
Please note we will supply you with new parts when we run out of old ones.

Old Parts No.		New Parts No.	Using Section
97370-06016	→	90101-06M08	Fig 8-73, 16-11
97370-06025	→	90101-06M09	Fig 8-61, 9-55
97323-06025	→	90101-06M10	Fig 3-34
90101-06M03	→	90101-06M11	Fig 7-23
97323-06030	→	90101-06M12	Fig 3-35
97323-06035	→	90101-06M13	Fig 3-36
97370-08060	→	90101-08M18	Fig 8-86
97370-08100	→	90101-08M19	Fig 8-87
97370-08020	→	90101-08M20	Fig 8-93
97370-08016	→	90101-08M21	Fig 8-92
97370-08030	→	90101-08M23	Fig 6-4
97370-10035	→	90101-10M26	Fig 6-15
97370-10040	→	90101-10M27	Fig 16-31
97470-08020	→	90105-08M02	Fig 7-13
90266-04002	→	90266-04M00	Fig 1-10
97323-05010	→	97313-05010	Fig 9-28
97323-06010	→	97313-06010	Fig 1-20, 15-7
97323-06012	→	97313-06012	Fig 2-49, 3-68, 5-17, 9-31, 14-20, 15-14
97323-06040	→	97313-06014	Fig 5-22, 10-33, 13-23
97323-06015	→	97313-06015	Fig 2-15
97323-06020	→	97313-06020	Fig 2-46, 3-22, 3-39, 9-10, 10-21
97323-06025	→	97313-06025	Fig 2-27, 4-10, 5-26
97323-06030	→	97313-06030	Fig 2-30, 9-36
97323-06035	→	97313-06035	Fig 4-11, 9-11
97323-06040	→	97313-06040	Fig 2-28, 10-48, 11-25
97323-08025	→	97313-08025	Fig 2-11

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5-13	164-81246-21	4-38	648-14384-01	8-42	648-43642-00	13- 3	648-82508-40	2-40	656-15749-00
12-15	164-81246-21	4-35	648-14385-00	9-82	648-44146-00	13- 1	648-82570-40	2-37	656-15770-00
5-12	207-81331-10	4-36	648-14386-00	8-54	648-44508-01-F6	13- 2	648-82571-40	2-23	656-15771-00-94
12-14	207-81331-10	4-32	648-14390-14	8-54	648-44508-01-94	13-11	648-82572-40	2-25	656-15772-00-94
8-22	616-43118-00-F6	2-10	648-15717-00	8-67	648-44517-00	13- 6	648-82573-40	2-48	656-15774-00
15-19	616-83180-30	2- 7	648-15741-01	8-63	648-44519-00-F6	13-12	648-82580-40	14-19	656-15774-41
16-26	617-48331-90	2-14	648-15758-00-F6	8-63	648-44519-00-94	13- 4	648-82584-40	10- 1	656-24202-03-24
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