

YAMAHA

OUTBOARD MOTOR PARTS LIST



FLOOD MARINE SERVICES FLOOD MARINE SERVICES FLOOD MARINE SERVICES

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MODEL 20A

MODEL 20AE

FOR EUROPE



YAMAHA MOTOR CO., LTD.

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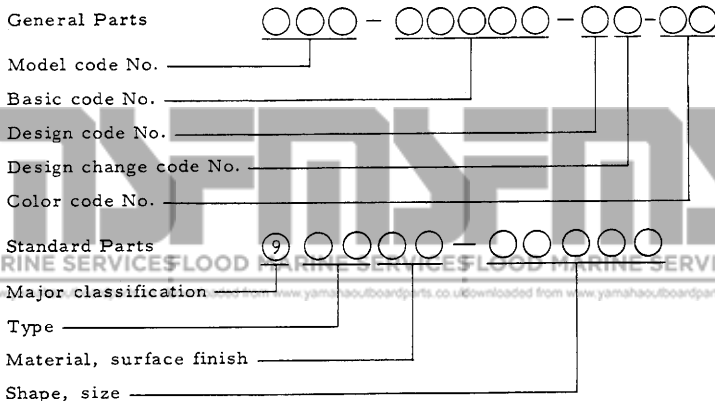
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FOREWORD

This Parts List relates to the parts in use for the Yamaha Outboard Motor 20A/20AE. When you are ordering replacement parts for the 20A/20AE, refer to this Parts List and quote both part numbers and names correctly.

1. Structure of Part No.

Yamaha parts are divided largely into two categories; general parts and standard parts, and each part No. has the following structure:



Note: Every standard No. begins with 9.

2. How to Use this Parts List

- (1) Except for steel balls (whose size is indicated in inches), the size of all parts is indicated in millimeters in the following manner.

Hose (rubber or vinyl) Inside diameter - outside diameter - length

O-ring Section area - inside diameter

Washer, shim, collar Inside diameter - outside diameter - thickness (length)

Pin, dowel Inside diameter - outside diameter - length

- (2) In the Parts List every component part of an assembly is so listed that each part name is indented one character from the left margin, and a dot (.) is attached before each.

Parts, which are not for sale, may be omitted from the list.

Example

Description	Q'ty
CARBURETOR ASS'Y	1
. JET, pilot	1
. NOZZLE, main	1
.	
.	
.	
. LEVER, stater	1

- (3) Key to symbols

U.R	Use size (thickness) and/or number as required
U.N	Use as many as you need
S	S type oil seal or S type circlip
SD	SD type oil seal
SW	SW type oil seal
E	E type circlip
R	R type circlip
T	Number of teeth in a gear
*	New parts number
☆ }	Contents of gasket kit for power head
◇ }	Contents of gasket kit for lower unit
□ }	Contents of water pump repair kit

- (4) In this parts list, the right and left with respect to positions of parts are determined viewing the boat hull from the stern.

- (5) All spare parts used in the MODEL 20A/20AE, are listed in first edition of parts list for 20A/20AE (REF No. 657-28198-E5).

For your easy reference, we show the history of revision of the parts from the first engine of 20A/20AE. We shall request you to apply this list in future, instead of the old one which have even been supplied to you. Please pay attention to the number of column of engine number, when you place order with us, so that you can avoid the order for wrong parts.

- (6) Indication for the revise of spare parts

The contents of this parts list is almost same as ordinary parts list. However, please note that this parts list have the indication of interchangeable parts. If any parts shown on the parts list have interchangeable parts, marks "◇" are indicated on the REMARKS.

Example

Parts No.	Description	Q'ty	Remarks
657-14301-02	CARBURETOR ASS'Y	1	◇
657-14301-03	CARBURETOR ASS'Y	1	

As soon as the parts marked by "◇" will be sold out, only the substituted parts will be sold automatically.

In other words, when 657-14301-02 will be sold out, only 657-14301-03 will be supplied to you instead of 657-14301-02.

- (7) This Parts List was prepared on Aug., 10, 1976. If any part of the list is changed, it will be published in the Yamaha Parts News. It is requested, therefore, that you will keep this Parts List up-to-dated by making necessary corrections.



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GASKET & REPAIR KIT

☆..... Indicates contents of gasket kit for power head.

20AS-05966 ~ 07615

L-36246 ~ 37210

20AES-25286 ~ 25325

L-55151 ~ 55225

★..... Indicates contents of gasket kit for power head.

20AS-08281 ~

L-37266 ~

20AES-25326 ~

L-55226 ~

◇..... Indicates contents of gasket kit for lower unit

20AS-05966 ~ 07615

L-36246 ~ 37210

20AES-25286 ~ 25325

L-55151 ~ 55225

◆..... Indicates contents of gasket kit for lower unit.

20AS-08281 ~

L-37266 ~

20AES-25326 ~

L-55226 ~

□..... Indicates contents of water pump repair kit.

20AS-05966 ~

L-36246 ~

20AES-25286

L-55151 ~

GASKET & REPAIR KIT

Parts No.	Description	Q'ty	Remarks
		20A 20AE	
☆----- Contents of gasket kit for power head -----			
657-W00001-00	GASKET KIT FOR POWER HEAD	1s 1s	
657-11181-03	GASKET, cylinderhead	1 1	Ref. No. 1-20
648-12414-01	GASKET, cover	1 1	1-25
648-15369-00	GASKET, oil seal housing	1 1	1-31
656-41114-02	GASKET, exhaust cover	2 2	1-35
93210-14167	O-RING (1.9-14.0)	1 1	2-25
648-14198-00	GASKET	1 1	3-12
648-13645-00	GASKET, intake manifold	1 1	3-19
648-13621-00	PACKING, valve seat	1 1	3-21
648-14384-01	GASKET, float chamber	1 1	4-11
656-45113-00	GASKET, upper casing	1 1	5-2
648-44365-01	RUBBER, water seal	1 1	7-9
650-24431-00	GASKET, fuel pump	1 1	22-16
648-24564-02	PACKING, filter	1 1	23-6

☆----- Contents of gasket kit for power head -----			
657-W0001-10	GASKET KIT FOR POWER HEAD	1s 1s	
657-11181-03	GASKET, cylinderhead	1 1	Ref. No. 1-20
648-12414-01	GASKET, cover	1 1	1-25
648-15369-00	GASKET, oil seal housing	1 1	1-31
656-41114-02	GASKET, exhaust cover	2 2	1-35
93210-14167	O-RING (1.9-14.0)	1 1	2-25
648-14198-00	GASKET	1 1	3-12
648-13645-00	GASKET, intake manifold	1 1	3-19
648-13621-00	PACKING, valve seat	1 1	3-21
648-14384-01	GASKET, float chamber	1 1	4-11
656-45113-00	GASKET, upper casing	1 1	5-2

GASKET & REPAIR KIT

Parts No.	Description	Q'ty	Remarks
		20A 20AE	
648-44365-01	RUBBER, water seal 1	1	7-9
650-24431-00	GASKET, fuel pump	1	22-16
655-24564-00	PACKING, filter	1	23-10
93210-35339	O-RING (2.0-34.5)	1	23-12

◆----- Contents of gasket kit for lower unit -----

20AS-05966 ~ 07615
L-36246 ~ 37210
20AES-25286 ~ 25125
L-55151 ~ 55225

657-W0001-20	GASKET KIT FOR LOWER UNIT	1s	1s	
648-45314-00	SEAL, lower casing	1	1	Ref. No. 6-8
90430-08020	GASKET	3	3	6-13
90430-06015	GASKET	1	1	6-15
93210-14104	O-RING (2.4-13.8)	1	1	6-27
93210-14106	O-RING (1.9-14)	1	1	6-40
93210-45161	O-RING (3.5-45)	1	1	6-66

◆----- Contents of gasket kit for lower unit -----

20AS-08281 ~
L-37266 ~
20AES-25326 ~
L-55225 ~

657-W0001-30	GASKET KIT FOR LOWER UNIT	1s	1s	
648-45314-00	SEAL, lower casing	1	1	Ref. No. 6-8
90430-08020	GASKET	3	3	6-13
90430-06015	GASKET	1	1	6-15
93210-14106	O-RING (1.9-14)	1	1	6-40
93210-45161	O-RING (3.5-45)	1	1	6-66

□----- Contents of water pump repair kit -----

20AS-05966 ~
L-36246 ~
20AES-25286 ~
L-55151 ~

656-W0078-00	WATER PUMP REPAIR KIT	1s	1s	
656-44355-00	PIN, impeller	1	1	Ref. No. 6-36
648-44311-00	HOUSING, water pump	1	1	7-1

GASKET & REPAIR KIT

Parts No.	Description	Q'ty		Remarks
		20A	20AE	
656-44352-02	IMPELLER	1	1	7-2
656-44323-00	OUTER PLATE, cartridge	1	1	7-3
90101-06M03	BOLT, hexagon	3	3	7-4
626-44365-01	RUBBER, water seal 1	1	1	7-6



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CRANKCASE · CYLINDER

Ref. No.	Parts No.	Description	Q'ty 20A 20AE	Applicable Machine No.	Remarks
1- 1	653-15100-02-94	CRANKCASE ASS'Y	1	{ 20AS ~ 02415 L ~ 31599	
1- 2	657-15100-61-94	CRANKCASE ASS'Y	1	{ 20AS-02416 ~ 05965 L-31591 ~ 36245 20AES-25101 ~ 25285 L-55101 ~ 55150	
	657-15100-62-94	CRANKCASE ASS'Y	1	{ 20AS-05966 ~ 36246 L-36246 ~ 55151	
1- 3	650-14485-02	PIPE, joint	1	{ 20AS-04456 ~ L-33791	
1- 4	650-11370-00	CHECK VALVE ASS'Y	1	{ 20AES-25191 ~ L-55121	
1- 5	624-11379-00	VALVE, check l	1		
1- 6	93606-12019	PIN, dowel B (6-12)	2		
1- 7	97313-08055	BOLT, hexagon	8		
1- 8	97313-08045	BOLT, hexagon	2	{ 20AS ~ 02415 L-31591 ~ 33790 20AES ~ 25140 L-55110	
	97313-08060	BOLT, hexagon	2	{ 20AS-02416 ~ L-31591 20AES-25141 ~ L-55111	
1- 9	648-11175-00	WASHER, plate	10		
1-10	656-11325-01	ANODE	1		
1-11	656-11165-00	PLATE, anode	1	{ 20AS ~ 02415 L-31590 20AES ~ 25140 L-55110	
1-12	90150-04008	SCREW, special	2		
1-13	624-14588-01	CONNECTOR	2		
1-14	90501-02223	SPRING, compression	2	{ 20AS-02416 ~ 04455 L-31591 ~ 33790 20AES-25101 ~ 25190 L-55101 ~ 55120	
1-15	93501-08001	BALL, steel	2		
1-16	655-24312-00	PIPE 2	1		
1-17	90445-07258	HOSE (2.5-7-200)	1	{ 20AS-04456 ~ L-33791 20AES-25191 ~ L-55121	
1-18	90467-06016	CLIP	4	{ 20AS-02416 ~ 04455 L-31591 ~ 33790 20AES-25141 ~ 25190 L-55111 ~ 55120	
	90467-06016	CLIP	2	{ 20AS-04456 ~ L-33791 20AES-25191 ~ L-55121	
1-19	653-11111-01-94	HEAD, cylinder	1	{ 20AS ~ 01105 L ~ 30355	
	657-11111-01-94	HEAD, cylinder	1	{ 20AS-01106 ~ L-30356 20AES-25101 ~ L-55101	
1-20	653-11181-02	GASKET, cylinderhead	1	{ 20AS ~ 01105 L ~ 30355	
☆	657-11181-03	GASKET, cylinderhead	1	{ 20AS-01106 ~ L-30356 20AES-25101 ~ L-55101	
1-21	97313-08045	BOLT, hexagon	10		
1-22	648-11175-00	WASHER, plate	10		
1-23	656-12411-01	THERMOSTAT	1		



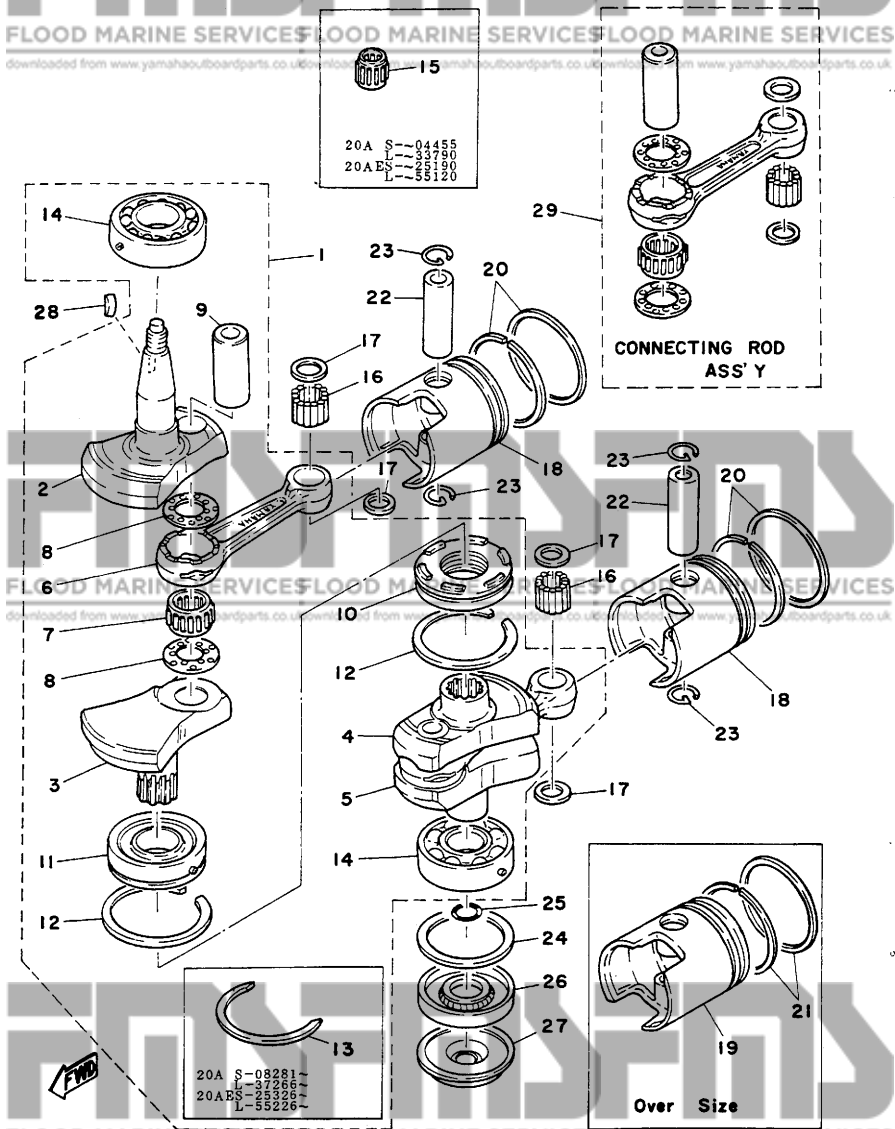
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CRANKCASE · CYLINDER

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
1-24	648-12418-00	RING, thermostat	1	1	20AS ~ 06115 L ~ 36400 20AES ~ 25285 L ~ 55150	
	90201-21567	WASHER, plate	1	1	20AS-06116 ~ L ~ 36401 ~ 20AES-25286 ~ L-55151 ~	
☆ 1-25	648-12414-01	GASKET, cover	1	1		
1-26	648-12413-02-94	COVER, thermostat	1	1	20AS ~ 06115 L ~ 36400 20AES ~ 25285 L ~ 55150	
	656-12413-01	COVER, thermostat	1	1	20AS-06116 ~ L ~ 36401 ~ 20AES-25286 ~ L-55151 ~	
1-27	97323-06020	BOLT, hexagon	3	3		
1-28	92903-06100	WASHER, spring	3	3		
1-29	648-15359-00-94	HOUSING, oil seal	1	1	20AS ~ 07615 L ~ 37210 20AES ~ 25325 L ~ 55225	◇
	*656-15359-00-94	HOUSING, oil seal	1	1	20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55228 ~	
1-30	93102-23096	OIL SEAL (SD-23-38-7)	1	1		
☆ 1-31	648-15369-00	GASKET, oil seal housing	1	1		
1-32	92503-06020	SCREW, panhead	4	4		
1-33	92903-06100	WASHER, spring	4	4		
1-34	648-41113-09-94	OUTER COVER, exhaust	1	1	20AS ~ 01105 L ~ 30355	
	656-41113-00-94	OUTER COVER, exhaust	1	1	20AS-01106 ~ L-30356 ~ 20AES-25101 ~ L-55101 ~	
1-35	648-41114-01	GASKET, exhaust cover	2	2	20AS ~ 01105 L ~ 30355	
☆	656-41114-02	GASKET, exhaust cover	2	2	20AS-01106 ~ L-30356 ~ 20AES-25101 ~ L-55101 ~	
1-36	648-41111-00	INNER COVER, exhaust	1	1	20AS ~ 01105 L ~ 30355	
	656-41111-01	INNER COVER, exhaust	1	1	20AS-01106 ~ L-30356 ~ 20AES-25101 ~ L-55101 ~	
1-37	97323-06030	BOLT, hexagon	9	9		
1-38	97323-06025	BOLT, hexagon	3	3		
1-39	92903-06100	WASHER, spring	12	12		
1-40	90465-20061	CLAMP (648-87544-40)	1	1	20AS ~ 05965 L ~ 36245 20AES ~ 25385 L ~ 55150	
1-41	94701-00039	PLUG, spark (B-6HS)	2	2		

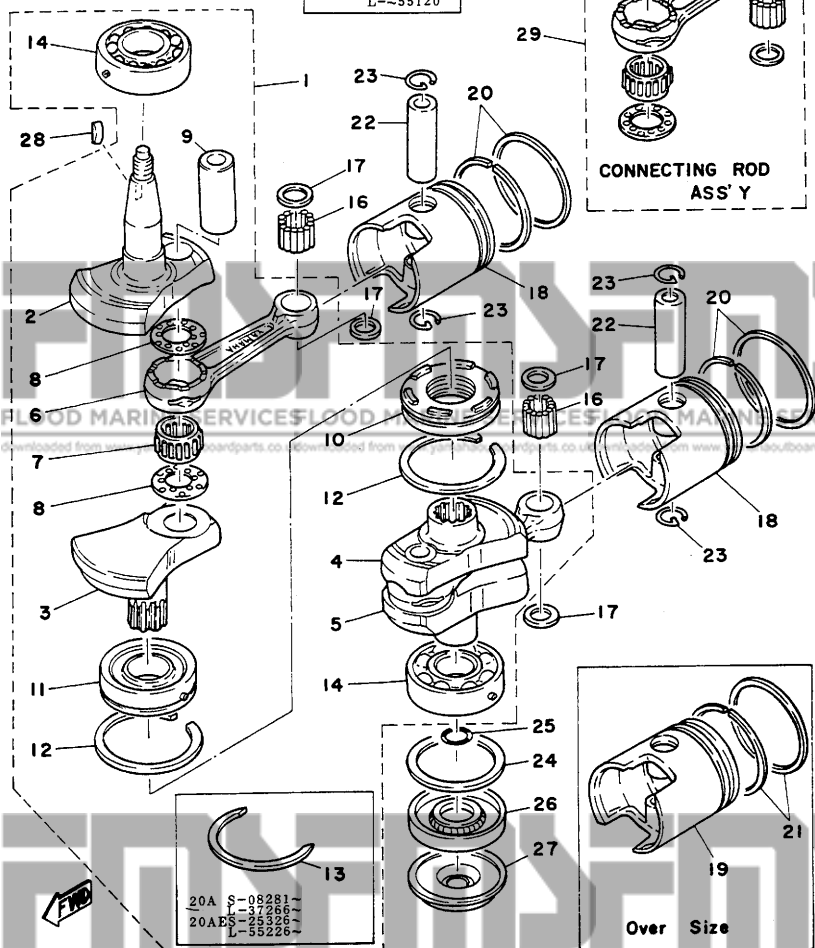
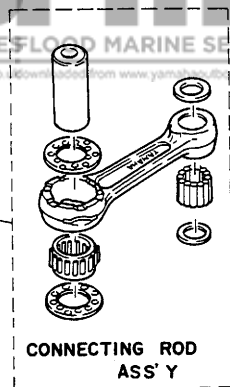
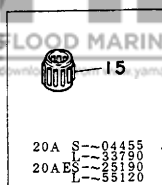
Fig. 2 CRANK · PISTON



CRANK · PISTON

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks	
			20A 20AE			
2- 1	653-11400-01	CRANK ASS'Y	1	1		
2- 2	653-11412-01	. CRANK 1	1	1		
2- 3	648-11422-01	. CRANK 2	1	1		
2- 4	648-11432-01	. CRANK 3	1	1		
2- 5	648-11442-02	. CRANK 4	1	1		
2- 6	648-11651-01	. ROD, connecting	2	2		
2- 7	93310-522A4	. BEARING, con-rod big end	2	2		
2- 8	90209-22071	. WASHER (164-11685-00)	4	4		
2- 9	648-11681-00	. PIN, crank	2	2		
2-10	656-11515-00	. SEAL, labyrinth	1	1		
2-11	93390-00009	. BEARING, roller (9000)	1	1		
2-12	93440-62021	. CIRCLIP (62φ special)	2	2	{ 20AS ~ 07615 L ~ 37210 20AES ~ 25325 L ~ 55225	
	93440-62021	. CIRCLIP (62φ special)	1	1		
2-13	*93440-62057	. CIRCLIP (62φ special)	1	1	{ 20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55226 ~	
2-14	93306-30516	. BEARING (B6305)	2	2		
2-15	93310-21889	BEARING, con-rod small end	2	2	{ 20AS ~ 04455 L ~ 33790 20AES ~ 25190 L ~ 55120	
2-16	93602-20115	BEARING, con-rod small end	62	62		
2-17	90201-18522	WASHER	4	4	{ 20AS-04456 ~ L-33791 ~ 20AES-25191 ~ L-55121 ~	
2-18	653-11631-00-96	PISTON (Standard 63.96mm)	}	U.R U.R		
	653-11631-00-97	PISTON (Standard 63.97mm)				
	653-11631-00-98	PISTON (Standard 63.98mm)				
2-19	653-11635-00	PISTON (Over Size 67.25mm)	2	2		
	653-11636-00	PISTON (Over Size 67.50mm)	2	2		
2-20	653-11610-01	PISTON RING SET (Standard)	2s	2s		
2-21	653-11610-11	PISTON RING SET (Over Size 67.25mm)	2s	2s		
	653-11610-21	PISTON RING SET (Over Size 67.50mm)	2s	2s		
2-22	818-11633-00	PIN, piston	2	2		
2-23	93450-20026	CLIP, piston pin (604-11634-00)	4	4		

Fig.2 CRANK · PISTON



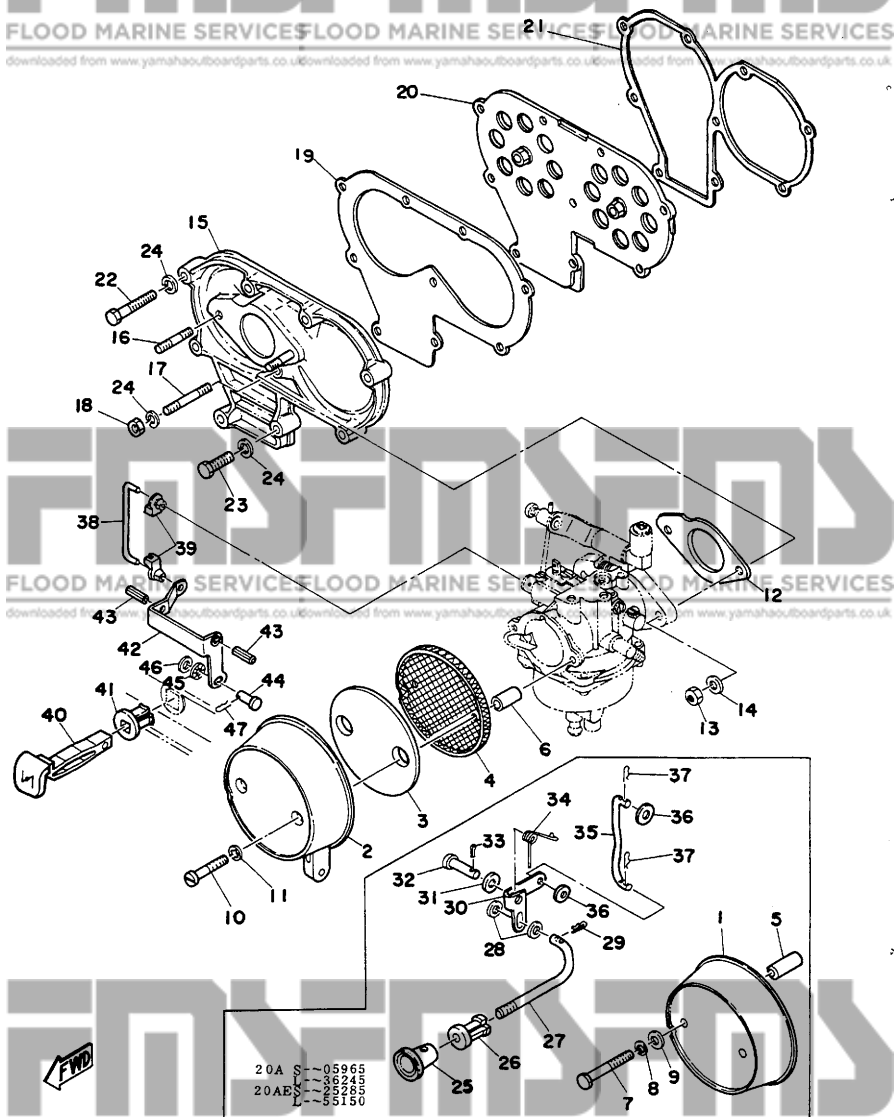
CRANK · PISTON

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
2-24	9-0201-50306	WASHER, plate (648-11587-00) ...	1	1		
☆ 2-25	93210-14167	O-RING (1.9-14.0)	1	1		
2-26	93102-25097	OIL SEAL (SD-25-62-8)	1	1	{20AS ~ 04455 L ~ 33790 20AES ~ 25190 L ~ 55120 20AS-04456 ~ L ~ 33791 ~ 20AES-25191 ~ L ~ 55121 20AS ~ 05045 L ~ 31590 20AES ~ 25140 L ~ 55110 20AS-02416 ~ L ~ 31591 ~ 20AES-25141 ~ L ~ 55111 ~	
	93102-25114	OIL SEAL (SD-25-62-7)	1	1		
2-27	93104-14041	OIL SEAL (SD-14-62-12)	1	1		
	93104-14047	OIL SEAL (SD-14-62.5-12)	1	1		
2-28	90280-05013	KEY, woodruff	1	1		

OPTIONAL PARTS

2-29	648-11650-00	CONNECTING ROD ASS'Y	2	2		Ref. No. 6,7,8,9,16,17
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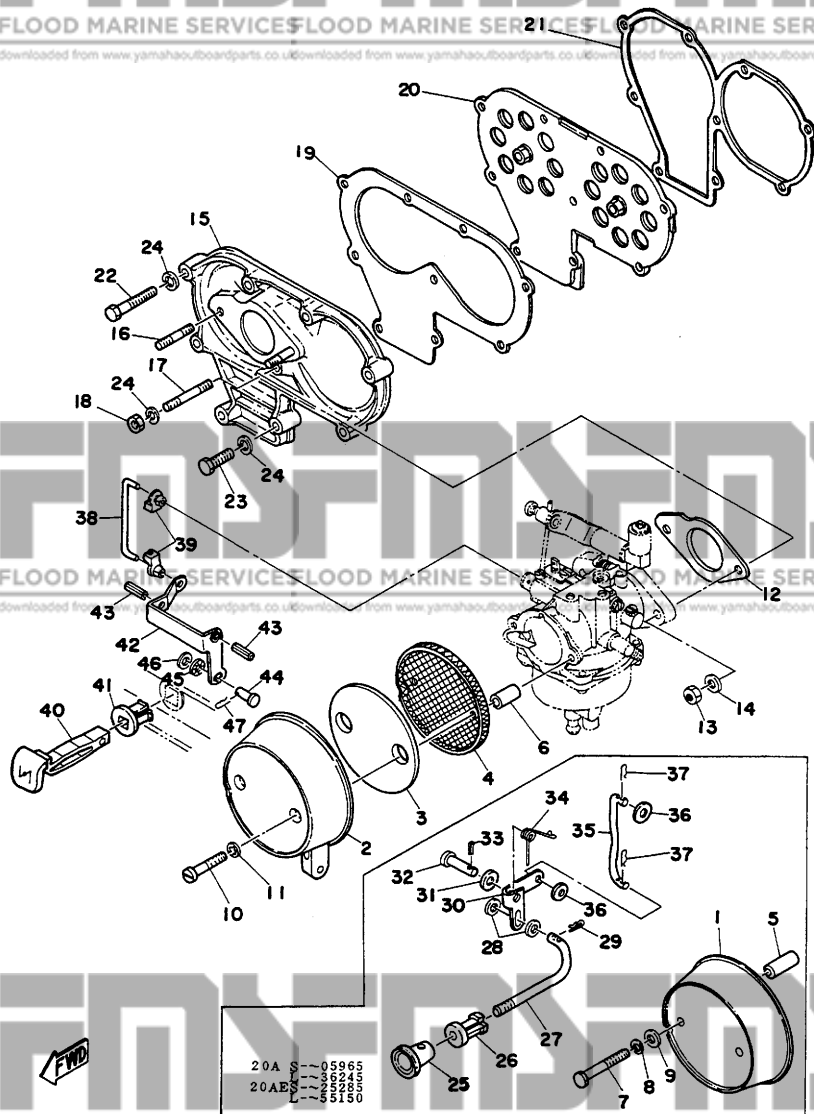
Fig. 3 INTAKE



INTAKE

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AB		
3- 1	648-14417-00	COVER	1	1	20AS-~05965 L~36245 20AES-~25285 L~55150
3- 2	664-14417-00	COVER	1	1	20AS-05966~ L-36246~ 20AES-25286~ L-55151~
3- 3	648-14451-00	ELEMENT 1	1	1	20AS-~07615 L~37210 20AES-~25325 L~55225
3- 4	648-14461-00	ELEMENT 2	1	1	20AS-~05965 L~36245 20AES-~25285 L~55150
3- 5	90387-06029	COLLAR (648-14443-00)	2	2	20AS-05966~ L-36246~ 20AES-25286~ L-55151~
3- 6	90387-06494	COLLAR	2	2	20AS-~05965 L~36245 20AES-~25285 L~55150
3- 7	97323-05040	BOLT, hexagon	2	2	20AS-~05965 L~36245 20AES-~25285 L~55150
3- 8	92903-05100	WASHER, spring	2	2	20AS-~05965 L~36245 20AES-~25285 L~55150
3- 9	92903-05600	WASHER, plate	2	2	20AS-05966~ L-36246~ 20AES-25286~ L-55151~
3-10	98503-05035	SCREW, panhead	2	2	20AS-05966~ L-36246~ 20AES-25286~ L-55151~
3-11	92903-05300	WASHER, tooth	2	2	20AS-05966~ L-36246~ 20AES-25286~ L-55151~
★3-12	648-14198-00	GASKET	1	1	
3-13	95303-06600	NUT, hexagon	2	2	
3-14	92903-06600	WASHER, plate	2	2	
3-15	648-13641-01-94	MANIFOLD, intake	1	1	
3-16	90116-06122	BOLT, stud (648-13558-00)	2	2	20AS-~04455 L~33790 20AES-~25190 L~55120
3-17	90116-06119	BOLT, stud (626-44144-00)	1	1	20AS-~04455 L~33791~ 20AES-25191~ L-55121~
	90116-06147	BOLT, stud (647-13568-00)	1	1	
3-18	95303-06600	NUT, hexagon	1	1	
★3-19	648-13645-00	GASKET, intake manifold 1	1	1	
3-20	648-13610-00	REED VALVE ASS'Y	1	1	
★3-21	648-13621-00	PACKING, valve seat	1	1	
3-22	97323-06035	BOLT, hexagon	7	6	
3-23	97323-06020	BOLT, hexagon	2	2	
3-24	92903-06100	WASHER, spring	9	8	
3-25	648-41227-00	KNOB	1	1	
3-26	648-41292-01	BUSHING 2	1	1	
3-27	648-41257-01	ROD, choke link 2	1	1	20AS-~05965 L~36245 20AES-~25285 L~55150
3-28	92990-05200	WASHER, plain	2	2	
3-29	90468-10005	CLIP (626-41235-00)	1	1	

Fig. 3 INTAKE



INTAKE

Ref. No.	Parts No.	Description	Q'ty 20A 20AE	Applicable Machine No.	Remarks
3-30	648-41252-01	LEVER, choke 1	1	1	20AS ~04455 L ~33790 20AES ~25190 L ~55120 20AS-04456 ~05965 L ~33791 ~36245 20AES-25191 ~25285 L ~55121 ~55150
	656-41252-00	LEVER, choke 1	1	1	
3-31	92990-05200	WASHER, plain	2	2	
3-32	91790-05022	PIN, clevis 2	1	1	
3-33	91490-16010	PIN, cotter	1	1	20AS ~05965 L ~36245 20AES ~25285 L ~55150
3-34	90508-09182	SPRING, torsion (648-41265-00)...	1	1	
3-35	648-41256-00	ROD, choke link 1	1	1	
3-36	92990-03200	WASHER, plain	2	2	20AS ~04455 L ~33790 20AES ~25190 L ~55120
3-37	90468-10004	CLIP (626-41236-00)	2	2	
3-38	656-41256-00	ROD, choke link 1	1	1	20AS-04456 ~ L ~33791 20AES-25191 ~ L ~55121 ~
3-39	661-41262-02	JOINT, choke lever	2	2	
3-40	656-41271-00	KNOB, choke 1	1	1	
3-41	90480-12154	GROMMET	1	1	
3-42	656-41252-01	LEVER, choke 1	1	1	
3-43	91690-40016	PIN, spring	2	2	20AS-05966 ~ L ~36246 ~ 20AES-25286 ~ L ~55151 ~
3-44	90240-05044	PIN, with hole	1	1	
3-45	90206-05005	WASHER, wave	1	1	
3-46	90201-05560	WASHER, plate	1	1	
3-47	90468-10005	CLIP (626-41235-00)	1	1	

Fig. 4 CARBURETOR

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CARBURETOR

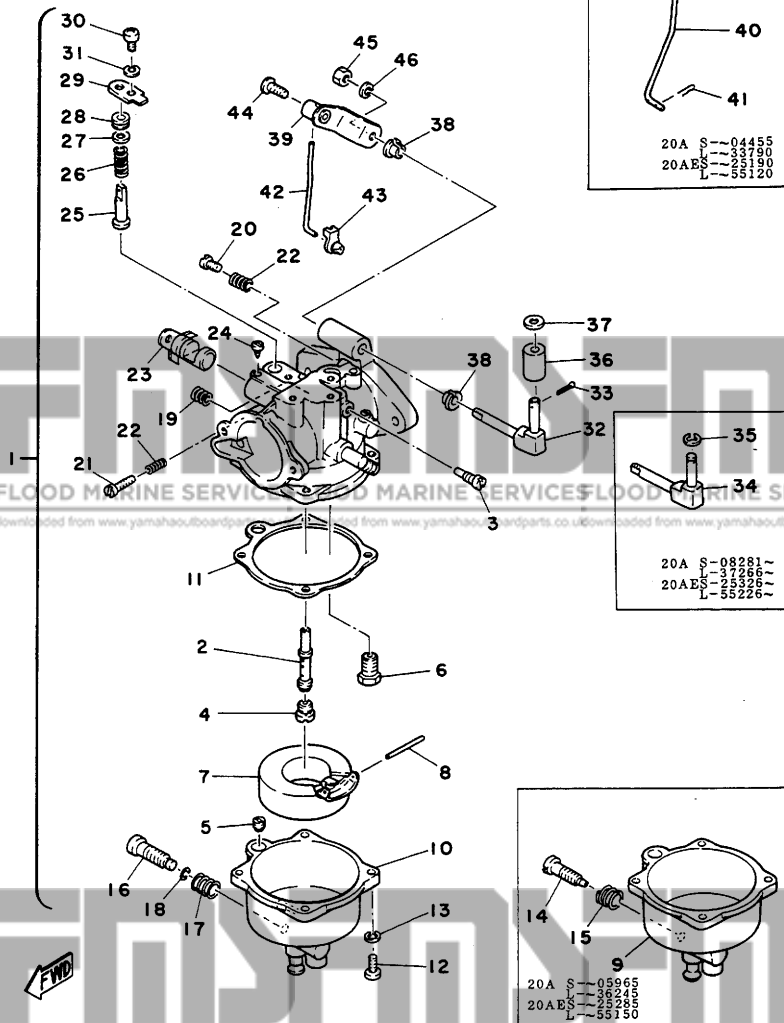
Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
4-1	653-14301-09	CARBURETOR ASS'Y	1	1	20AS ~ 03491 L ~ 32555 20AES ~ 25140 L ~ 55110
	657-14301-00	CARBURETOR ASS'Y	1	1	20AS-03492 ~ 04455 L-32556 ~ 33790 20AES-55141 ~ 55190 L-55111 ~ 55120
	657-14301-03	CARBURETOR ASS'Y	1	1	20AS-04456 ~ L-33791 ~ 20AES-25191 ~ L-55121 ~
4-2	648-14341-00	. NOZZLE, main	1	1	
4-3	648-14342-30	. JET, pilot (#60)	1	1	
4-4	648-14343-70	. JET, main (#140)	1	1	
4-5	648-14344-35	. JET, starter (#70)	1	1	
4-6	648-14390-14	. VALVE SEAT ASS'Y	1	1	
4-7	648-14385-00	. FLOAT	1	1	
4-8	648-14386-00	. PIN, float	1	1	
4-9	648-14381-02	. BODY, float chamber	1	1	20AS ~ 03491 L ~ 32555 20AES ~ 25140 L ~ 55110
	656-14381-00	. BODY, float chamber	1	1	20AS-03492 ~ 05965 L-32556 ~ 36245 20AES-55141 ~ 55295 L-55111 ~ 55150
4-10	656-14381-02	. BODY, float chamber	1	1	20AS-05966 ~ L-36246 ~ 20AES-55286 ~ L-55151 ~
☆4-11	648-14384-01	. GASKET, float chamber	1	1	
4-12	98503-04012	. SCREW, panhead	4	4	
4-13	92990-04100	. WASHER, spring	4	4	
4-14	650-14394-01	. VALVE, drain	1	1	20AS ~ 05965 L ~ 36246 20AES ~ 55285 L ~ 55150
4-15	650-14223-00	. SPRING, drain valve	1	1	
4-16	646-14394-00	. VALVE, drain	1	1	
4-17	646-14223-01	. SPRING, drain valve	1	1	20AS-05966 ~ L-36246 ~ 20AES-55286 ~ L-55151 ~
4-18	646-14397-00	. O-RING	1	1	
4-19	648-14331-00	. SPRING, throttle valve	1	1	
4-20	648-14323-00	. SCREW, air adjusting	1	1	
4-21	648-14321-00	. SCREW, throttle	1	1	
4-22	648-14334-00	. SPRING, air adjusting	2	2	
4-23	648-14375-00	. LEVER, starter 1	1	1	20AS ~ 04455 L ~ 33790 20AES ~ 25190 L ~ 55120
	656-14375-00	. LEVER, starter 1	1	1	20AS-04456 ~ L-33791 ~ 20AES-25191 ~ L-55121 ~
4-24	626-14326-00	. SCREW, guide	1	1	
4-25	648-14371-01	. PLUNGER, starter	1	1	



Fig. 4 CARBURETOR

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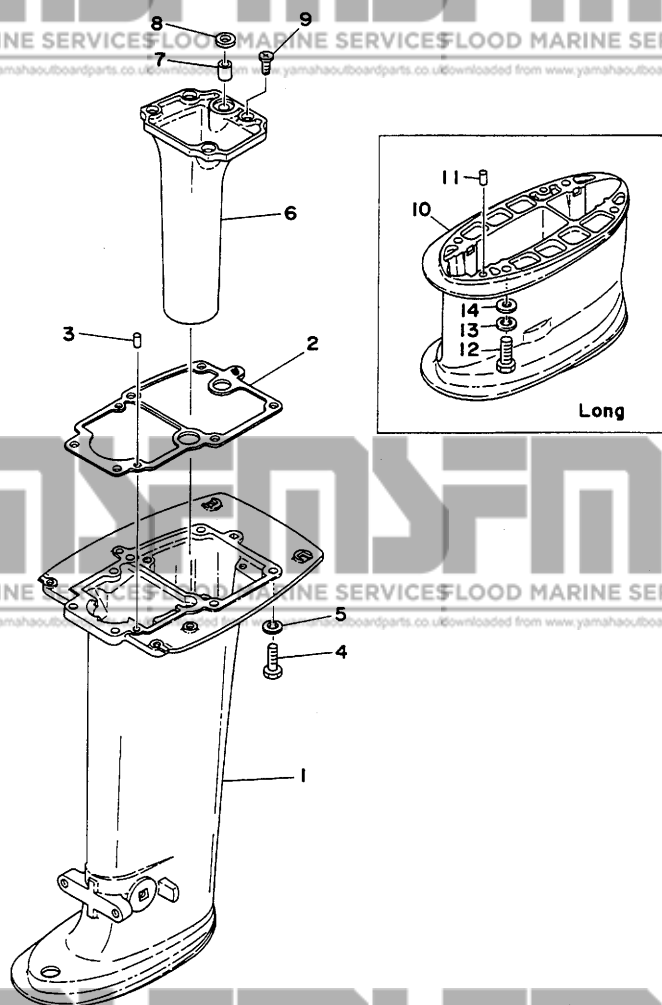
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CARBURETOR

Ref. No.	Parts No.	Description	Q'ty 20A 20AE	Applicable Machine No.	Remarks
4-26	648-14335-01	. SPRING, plunger	1	1	20AS~04455 L~33790 20AES~25190 L~55120
	656-14335-00	. SPRING, plunger	1	1	20AS-04456~ L~33790 20AES-25191~ L~55121~
4-27	648-14378-00	. PLATE, starter lever	1	1	
4-28	648-14372-02	. SEAL, plunger	1	1	
4-29	648-14374-01	. CAP, plunger	1	1	
4-30	98503-04008	. SCREW, panhead	1	1	
4-31	92990-04100	. WASHER, spring	1	1	
4-32	648-41216-00	. SHEAVE SHAFT, accel-link	1	1	20AS~07615 L~37210 20AES~25325 L~55225
4-33	91490-12008	. PIN, cotter	1	1	
4-34	*648-41216-01	. SHEAVE SHAFT, accel-link	1	1	20AS-08281~ L~37244~ 20AES-25326~ L~55226~
4-35	*93430-04031	. CIRCLIP (E-4)	1	1	
4-36	626-41231-00	. COLLAR, guide pin	1	1	
4-37	92990-05200	. WASHER, plain	1	1	
4-38	90386-05002	. BUSHING (626-41291-00)	2	2	
4-39	648-41210-01	. ACCEL-ARM ASS'Y	1	1	
4-40	648-41241-01	. ROD 1	1	1	20AS~04455 L~33790 20AES~25190 L~55120
4-41	90468-10004	. PIN, hair (626-41236-00)	1	1	
4-42	656-41241-00	. ROD 1	1	1	20AS-04456~ L~33791~ 20AES-25191~ L~55121~
4-43	661-41262-02	. JOINT, choke lever	1	1	
4-44	98503-05010	. SCREW, panhead	1	1	
4-45	95303-05700	. NUT	1	1	
4-46	92990-05100	. WASHER, spring	1	1	

Fig. 5 UPPER CASING

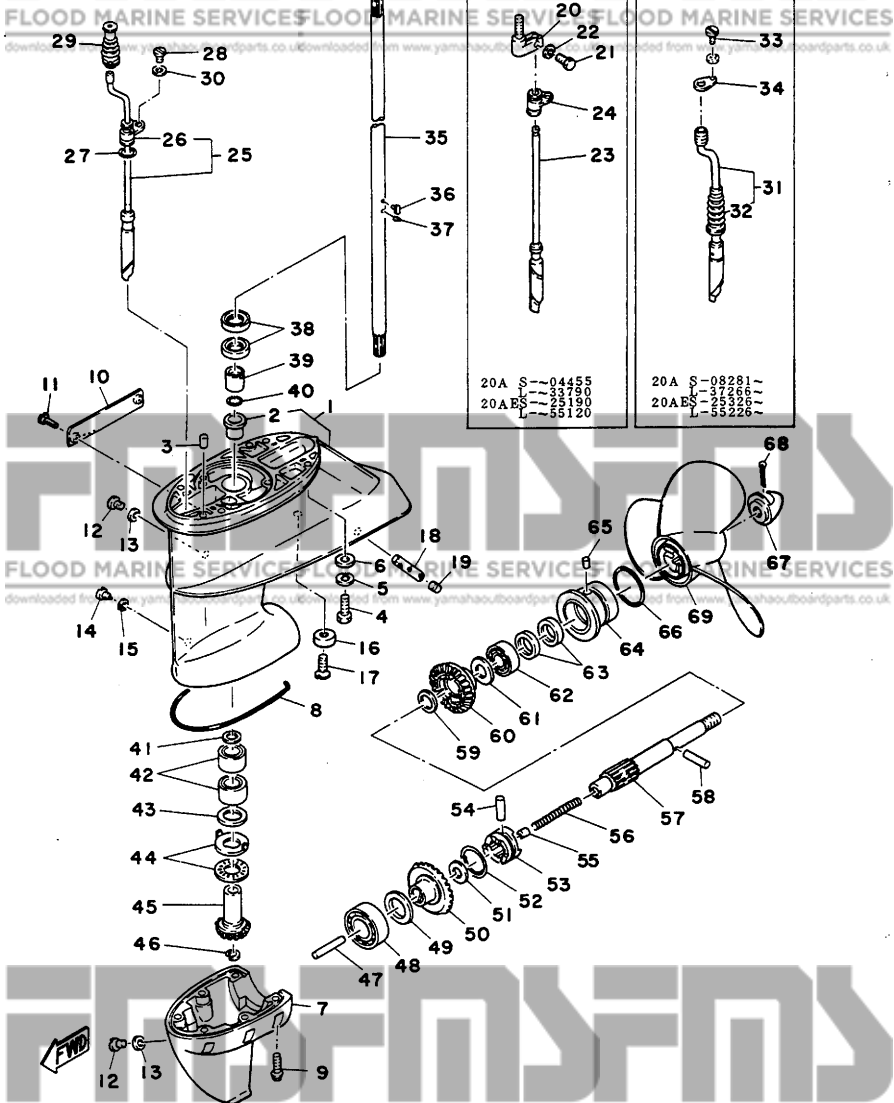


FWD

UPPER CASING

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
5- 1	656-45111-01-F6	CASING, upper	1	1	Metallic Ocean Blue
☆ 5- 2	656-45113-00	GASKET, upper casing	1	1	
5- 3	93606-12019	PIN, dowel B (6-12)	2	2	
5- 4	97370-08025	BOLT, hexagon	6	6	20AS ~ 02415 L ~ 31590 20AES ~ 25140 L ~ 55110
	97370-08030	BOLT, hexagon	6	6	20AS-02416 ~ L-31591 ~ 20AES-25141 ~ L-55111 ~
5- 5	92990-08100	WASHER, spring	6	6	
5- 6	648-41130-00-94	EXHAUST MANIFOLD ASS'Y.....	1	1	
5- 7	648-12494-00	SEAL, pipe 2	1	1	
5- 8	90430-09025	GASKET (648-41133-01)	1	1	
5- 9	92780-06015	SCREW, flathead	4	4	
5-10	656-45211-11-F6	EXTENSION (Long 127mm)	1	1	Metallic Ocean Blue
5-11	93606-12019	PIN, dowel B (6-12)	2	2	
5-12	97370-08025	BOLT, hexagon	4	4	20AS ~ 05790 L ~ 35765 20AES ~ 25210 L ~ 55130
	97370-08030	BOLT, hexagon	4	4	20AS-05791 ~ L-35766 ~ 20AES-25211 ~ L-55131 ~
5-13	92990-08100	WASHER, spring	4	4	
5-14	92990-08600	WASHER, plate	4	4	20AS-05791 ~ L-35766 ~ 20AES-25211 ~ L-55131 ~

Fig. 6 LOWER CASING DRIVE

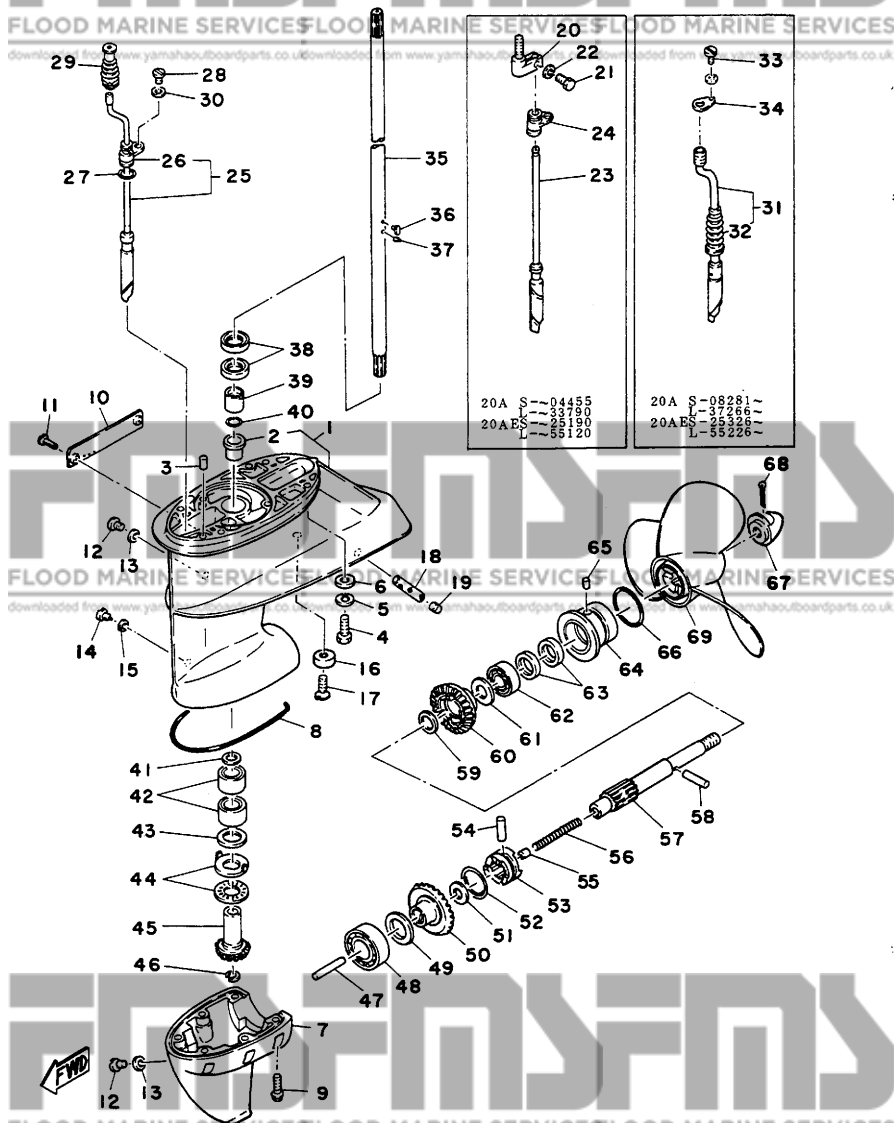


LOWER CASING DRIVE

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AB		
6- 1	656-45301-00-F6	LOWER CASING COMP. 1	1	1	Metallic Ocean Blue
6- 2	648-45316-09	BUSHING, drive shaft	1	1	
6- 3	93606-12019	PIN, dowel B (6-12)	2	2	
6- 4	97370-08025	BOLT, hexagon	4	4	20AS: ~05790 L: ~35765 20AES: ~25210 L: ~55130 20AS-06791~ L: 35766~ 20AES-25211~ L: 55131~
	97370-08030	BOLT, hexagon	4	4	
6- 5	92990-08100	WASHER, spring	4	4	
6- 6	92990-08600	WASHER, plate	4	4	20AS-05791~ L: 35766~ 20AES-25211~ L: 55131~
6- 7	648-45312-00-F6	CASING, lower 2	1	1	
6- 8	648-45314-00	SEAL, lower casing	1	1	Metallic Ocean Blue
6- 9	97470-06025	BOLT, hexagon	6	6	
6-10	656-45214-00-F6	COVER, water inlet 1	1	1	Metallic Ocean Blue
6-11	98180-05015	SCREW, ovalhead	2	2	
6-12	90340-08014	PLUG, straight (647-45341-00)	3	3	
6-13	90430-08020	GASKET (604-45342-00)	3	3	
6-14	90149-06003	SCREW, detent (626-44165-00)	1	1	
6-15	90430-06015	GASKET (626-44166-00)	1	1	
6-16	616-45251-30	ANODE	1	1	
6-17	92180-06018	SCREW, ovalhead	1	1	
6-18	626-45215-00	COVER, water inlet 2	1	1	
6-19	90334-10008	PLUG, straight (626-45247-00)	1	1	
6-20	648-44145-00	CONNECTOR, shift rod 1	1	1	20AS: ~04455 L: ~33790 20AES: ~25190 L: ~55120
6-21	97370-06015	BOLT, hexagon	1	1	
6-22	92990-06100	WASHER, spring	1	1	
6-23	648-44150-00	SHIFT CAM ASS'Y (Standard 253.5mm)	1	1	
	648-44150-10	SHIFT CAM ASS'Y (Long 380.5mm)	1	1	
6-24	650-44152-01	BUSHING, shift cam	1	1	



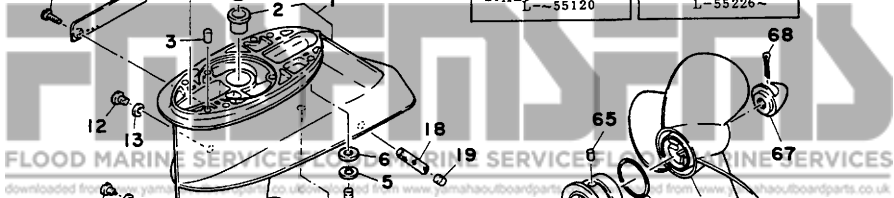
Fig. 6 LOWER CASING • DRIVE



LOWER CASING DRIVE

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
6-25	656-44150-00	SHIFT CAM ASS'Y (Standard 291.5mm)	1	1	20AS-04456 ~ 07615 L-33791 ~ 37210 20AES-25191 ~ 25325 L-55121 ~ 55225
	656-44150-10	SHIFT CAM ASS'Y (Long 418.5mm)	1	1	
6-26	650-44152-01	BUSHING, shift cam	1	1	
◇ 6-27	93210-14104	O-RING (2.4-13.8)	1	1	20AS ~ 07615 L-37210 20AES ~ 25325 L ~ 55225
6-28	92380-06012	SCREW, cylinderhead	1	1	
6-29	647-44147-00	BOOT, shift rod	1	1	
6-30	92990-06600	WASHER, plate	1	1	
6-31	* 656-44150-01	SHIFT CAM ASS'Y (Standard 291.5mm)	1	1	20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55226 ~
	* 656-44150-11	SHIFT CAM ASS'Y (Long 418.5mm)	1	1	
6-32	* 650-44147-00	BOOT, shift rod	1	1	
6-33	92380-06010	SCREW, cylinderhead	1	1	
6-34	* 650-45321-00	PLATE	1	1	
6-35	656-45511-00	SHAFT, drive 1 (Standard 635mm)	1	1	
	656-45511-10	SHAFT, drive 1 (Long 762mm)	1	1	
□ 6-36	656-44355-00	PIN, impeller	1	1	
6-37	90249-04023	PIN (626-45524-00)	1	1	
6-38	93101-20048	OIL SEAL (S-20-30-6)	2	2	
6-39	626-45526-00	COLLAR, drive shaft 1	1	1	
◇ 6-40	93210-14106	O-RING (1.9-14)	1	1	
6-41	626-45534-00-04	THRUST WASHER (14.3-19-0.4)	U.N	U.N	
6-42	93318-32204	BEARING, needle	2	2	
6-43	648-45533-00-02	THRUST WASHER (21-33-0.2)	}	U.R.U.R	
	648-45533-00-03	THRUST WASHER (21-33-0.3)			
6-44	93341-22008	BEARING, thrust needle (#4000) ..	1	1	
6-45	648-45551-00	PINION (13T)	1	1	

Fig. 6 LOWER CASING-DRIVE

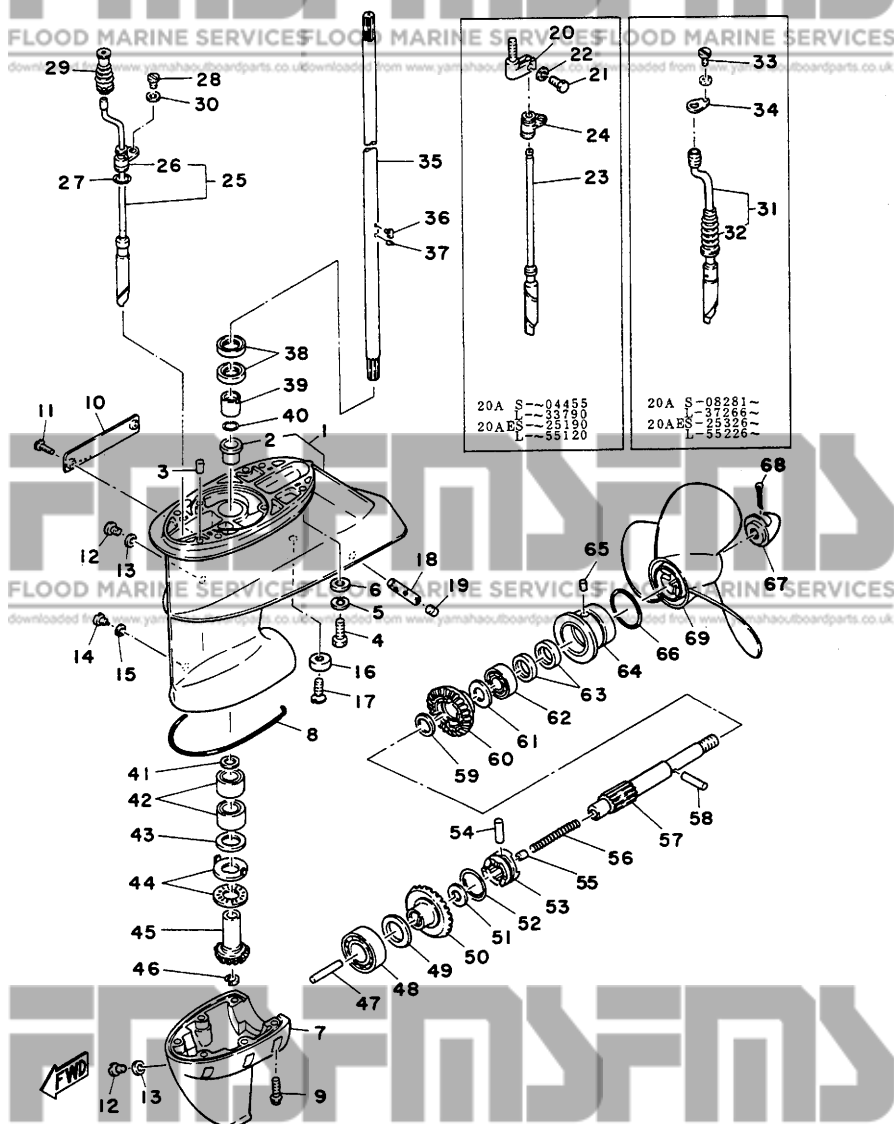


LOWER CASING · DRIVE

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
6-46	93410-12003	CIRCLIP (S-12)	1	1	
6-47	648-45635-00	PLUNGER, shift	1	1	
6-48	93306-20529	BEARING (B6205)	1	1	
6-49	648-45567-00-02	SHIM, 1 (25.5-38-0.2)	}	U.R.U.R.	
	648-45567-00-03	SHIM, 1 (25.5-38-0.3)			
6-50	648-45560-01	GEAR 1 ASS'Y (23T)	1	1	
6-51	90201-14432	WASHER, plate (648-45566-01)....	1	1	
6-52	648-45633-00	RING, cross pin	1	1	
6-53	656-45631-00	CLUTCH, dog	1	1	
6-54	90250-05010	PIN, straight (648-45632-00)	1	1	
6-55	648-45634-00	SLIDE, shift	1	1	
6-56	90501-10065	SPRING (648-45636-00)	1	1	
6-57	648-45611-01	SHAFT, propeller	1	1	
6-58	90250-05011	PIN, straight (648-45615-00)	1	1	
6-59	90201-17485	WASHER, plate (648-45576-01) ...	1	1	
6-60	648-45570-01	GEAR 2 ASS'Y (23T)	1	1	
6-61	648-45577-00-13	SHIM, 2 (17-30-1.3)	}	U.R.U.R.	
	648-45577-00-15	SHIM, 2 (17-30-1.5)			
	648-45577-00-17	SHIM, 2 (17-30-1.7)			
6-62	93306-20309	BEARING, ball (B6203)	1	1	
6-63	93101-17054	OIL SEAL (S-17-30-6)	2	2	
6-64	648-45361-01-94	CAP, lower casing	1	1	
6-65	93604-09068	PIN, dowel B (3.5-9)	1	1	
6-66	93210-45161	O-RING (3.5-45)	1	1	
6-67	626-45616-01	NUT, propeller	1	1	20AS: ~ 07615 L ~ 37210 20AE: ~ 25325 L ~ 55225 20AS: 08281 ~ L 37266 ~ 20AE: 25326 ~ L 55226 ~
	* 650-45616-00	NUT, propeller	1	1	
6-68	91490-30030	PIN, cotter	1	1	



Fig. 6 LOWER CASING-DRIVE

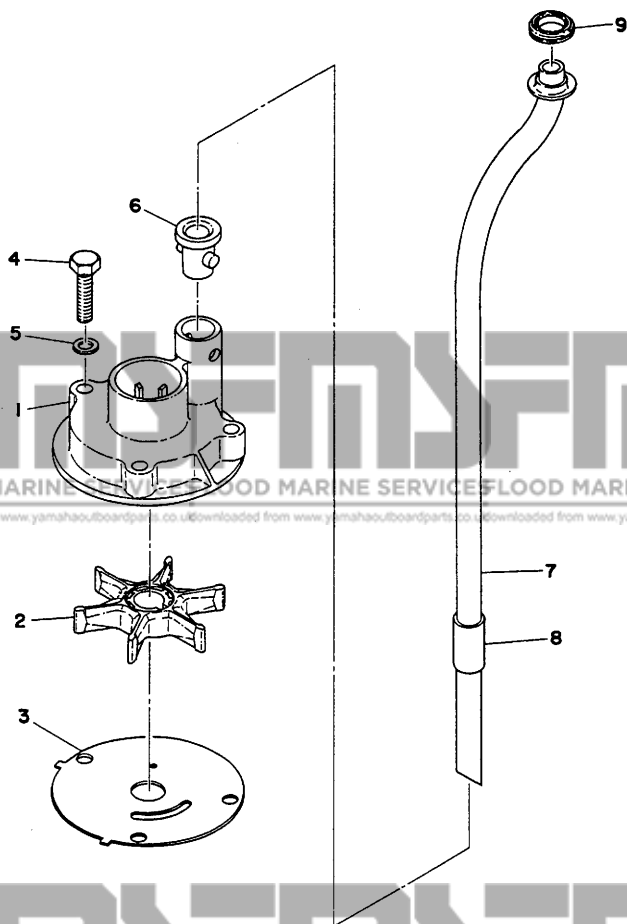


LOWER CASING DRIVE

Ref. No.	Parts No.	Description	Q'ty 20A 20AE	Applicable Machine No.	Remarks
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6-69	626-45943-02-36	PROPELLER ASS'Y 2 (3 x 9 1/4 x 10 1/4-D)			White
	648-45926-01-38	PROPELLER ASS'Y 8 (2 x 9 1/4 x 10-D)			
	648-45941-01-36	PROPELLER ASS'Y 1 (3 x 9 x 11-D)			White
	648-45941-61-36	PROPELLER ASS'Y 1 (3 x 9 1/4 x 10 1/4-D)			White
	648-45945-61-36	PROPELLER ASS'Y 3 (3 x 8 3/4 x 9-D)		U.R U.R 1 1	White
	650-45941-01-36	PROPELLER ASS'Y 1 (3 x 9 x 8-D)			White
	650-45943-01-36	PROPELLER ASS'Y 2 (3 x 9 1/4 x 7-D)			White
	656-45943-61-36	PROPELLER ASS'Y 2 (3 x 9 1/4 x 11 1/4-D)			White

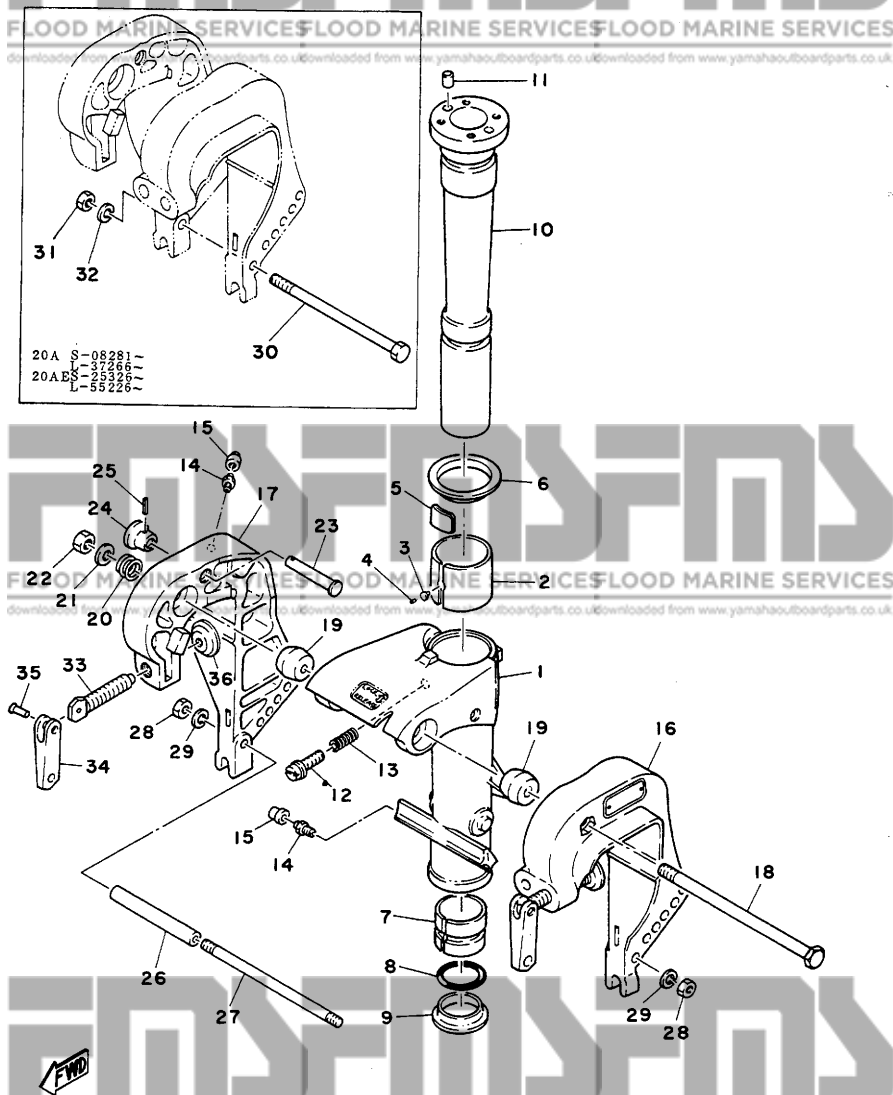
Fig. 7 WATER PUMP



WATER PUMP

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
				20A 20AE	
□ 7- 1	648-44311-00	HOUSING, water pump.	1	1	
□ 7- 2	656-44352-02	IMPELLER	1	1	
□ 7- 3	656-44323-00	OUTER PLATE, cartridge	1	1	
□ 7- 4	90101-06M03	BOLT, hexagon	3	3	
7- 5	92990-06600	WASHER, plate	3	3	
□ 7- 6	626-44365-01	RUBBER, water seal 1	1	1	
7- 7	648-44361-01	TUBE, water 1 (Standard 363mm)	1	1	20AS ~ 05965 L ~ 36245 20AES ~ 25285 L ~ 55150
	648-44361-11	TUBE, water 1 (Long 490mm) ..	1	1	
	656-44361-00	TUBE, water 1 (Standard 370mm)	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~
	656-44361-10	TUBE, water 1 (Long 497mm) ..	1	1	
7- 8	90445-11285	HOSE (9-11-25)	1	1	
☆ 7- 9	648-44365-01	RUBBER, water seal 1	1	1	

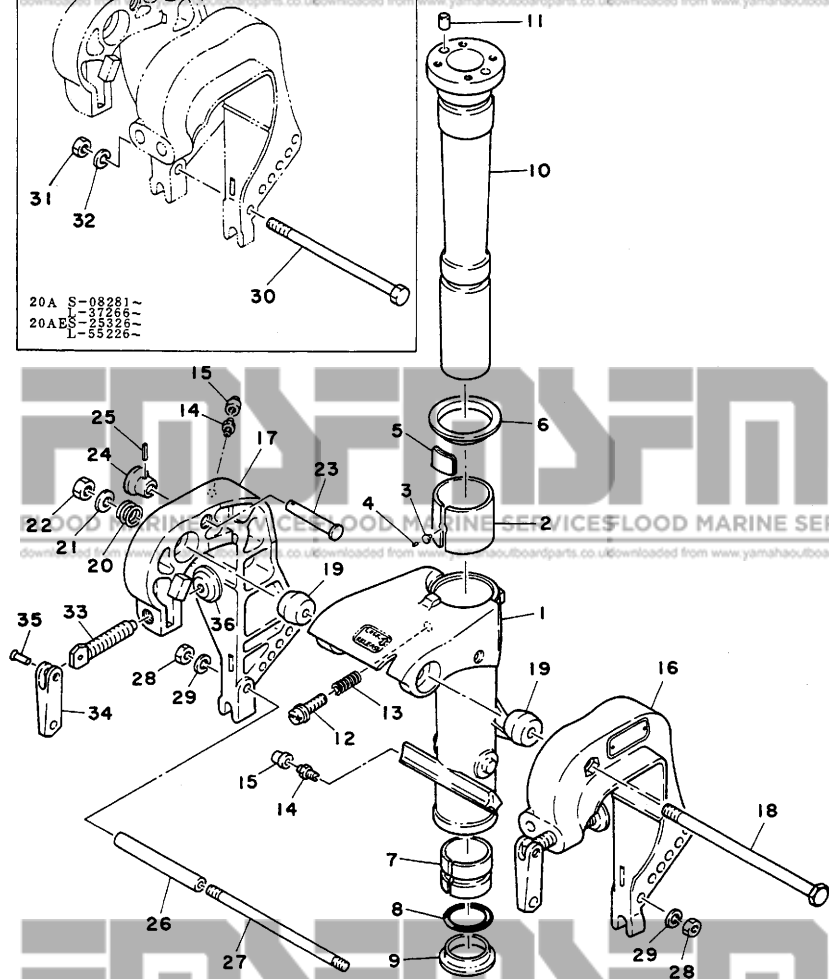
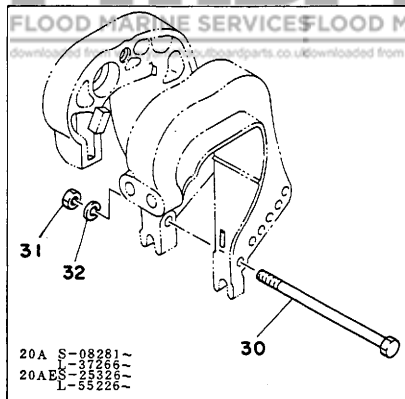
Fig. 8 BRACKET



BRACKET

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks	
			20A 20AE			
8- 1	648-43311-09-F6 BRACKET, swivel 1		1	1	20AS-~04455 L-~33790 20AES-~25190 L-~55120 20AS-04456~ L-33791~ 20AES-25191~ L-55121~ 20AS-~05965 L-~36246 20AES-~25286 L-~25150 20AS-05966~ L-55151~	Metallic Ocean Blue Metallic Ocean Blue
	656-43311-00-F6 BRACKET, swivel 1	.....	1	1		
8- 2	90386-47091 BUSHING	.....	1	1		
	90386-47092 BUSHING	.....	1	1		
8- 3	90241-03001 PIN, with head (624-43336-00)	...	1	1		
8- 4	90334-04002 PLUG (626-43396-00)	.....	1	1		
8- 5	648-42528-00 PIECE, friction 1	.....	1	1		
8- 6	90209-47016 WASHER (648-42535-00)	.....	1	1		
8- 7	90386-38090 BUSHING	.....	1	1		
8- 8	93210-37160 O-RING (2.5-37)	.....	1	1		
8- 9	90386-38022 BUSHING (648-42539-00)	.....	1	1		
8-10	648-42521-01-F6 SHAFT, steering pivot 1	.....	1	1	Metallic Ocean Blue	
8-11	93608-12063 PIN, dowel B (8-12)	.....	2	2		
8-12	90149-08005 SCREW (648-42529-00)	.....	1	1		
8-13	90501-16099 SPRING (648-42524-00)	.....	1	1		
8-14	93700-06004 NIPPLE, grease	.....	2	2		
8-15	663-45119-00 CAP, grease nipple	.....	2	2		
8-16	648-43111-02-F6 BRACKET, clamp 1		1	1	20AS-~04455 L-~33790 20AES-~25190 L-~55120 20AS-04456~ L-33791~ 20AES-25191~ L-55121~ 20AS-~04455 L-~33790 20AES-~25190 L-~55120 20AS-04456~ L-33791~ 20AES-25191~ L-55121~	Metallic Ocean Blue Metallic Ocean Blue Metallic Ocean Blue Metallic Ocean Blue
	656-43111-01-F6 BRACKET, clamp 1	.....	1	1		
8-17	648-43112-02-F6 BRACKET, clamp 2	.....	1	1		
	656-43112-02-F6 BRACKET, clamp 2	.....	1	1		
8-18	656-43131-00 BOLT, clamp bracket	.....	1	1		
8-19	648-43136-00 PIECE, friction	.....	2	2		
8-20	90504-59006 SPRING (626-43198-00)	.....	1	1		
8-21	90201-10130 WASHER, friction (615-43132-00)	.....	1	1		
8-22	95380-10600 NUT, hexagon	.....	1	1		
8-23	656-43191-00 SHAFT, stopper	.....	1	1		
8-24	648-43192-00-F6 KNOB, stopper	.....	1	1	Metallic Ocean Blue	
8-25	91690-30016 PIN, spring	.....	1	1		

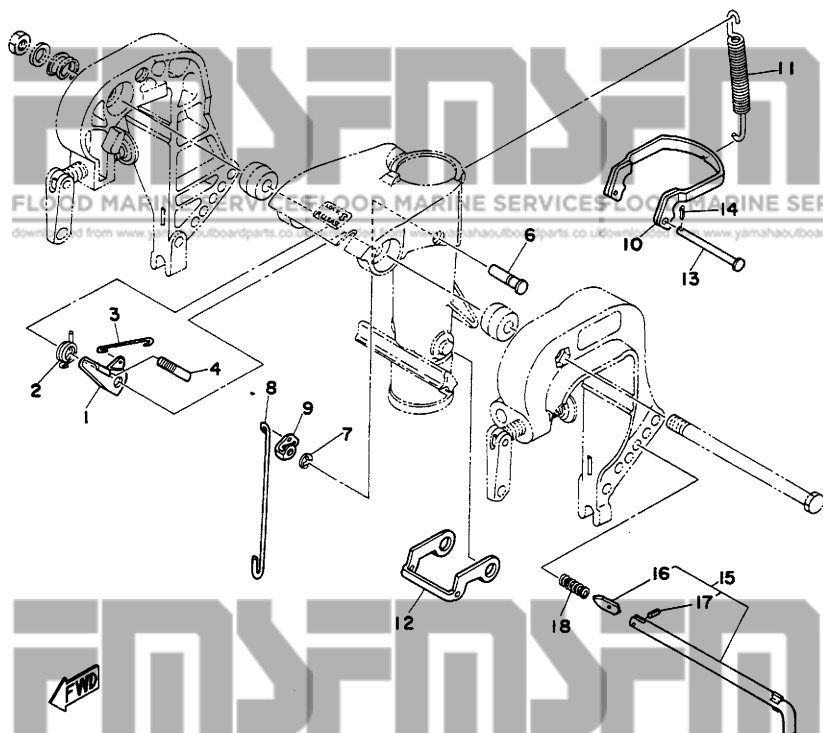
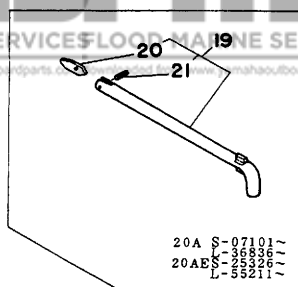
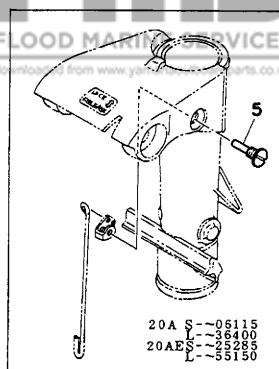
Fig. 8 BRACKET



BRACKET

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
8-26	90387-09074	COLLAR (648-43122-00)	1	1	
8-27	90116-08105	BOLT, stud (648-43123-00)	1	1	20AS: ~07615 L ~37210 20AES: ~25325 L ~55225
8-28	95380-08600	NUT, hexagon	2	2	
8-29	92990-08100	WASHER, spring	2	2	
8-30	* 90101-08339	BOLT, hexagon	1	1	20AS-08281~ L 37266~ 20AES-25326~ L 55226~
8-31	95380-08600	NUT, hexagon	1	1	
8-32	92990-08100	WASHER, spring	1	1	
8-33	90149-14030	SCREW (648-43116-00)	2	2	
8-34	616-43118-00-F6	HANDLE, transom clamp	2	2	Metallic Ocean Blue
8-35	90243-04001	PIN (620-43117-00)	2	2	
8-36	648-43114-01	PAD, transom clamp	2	2	

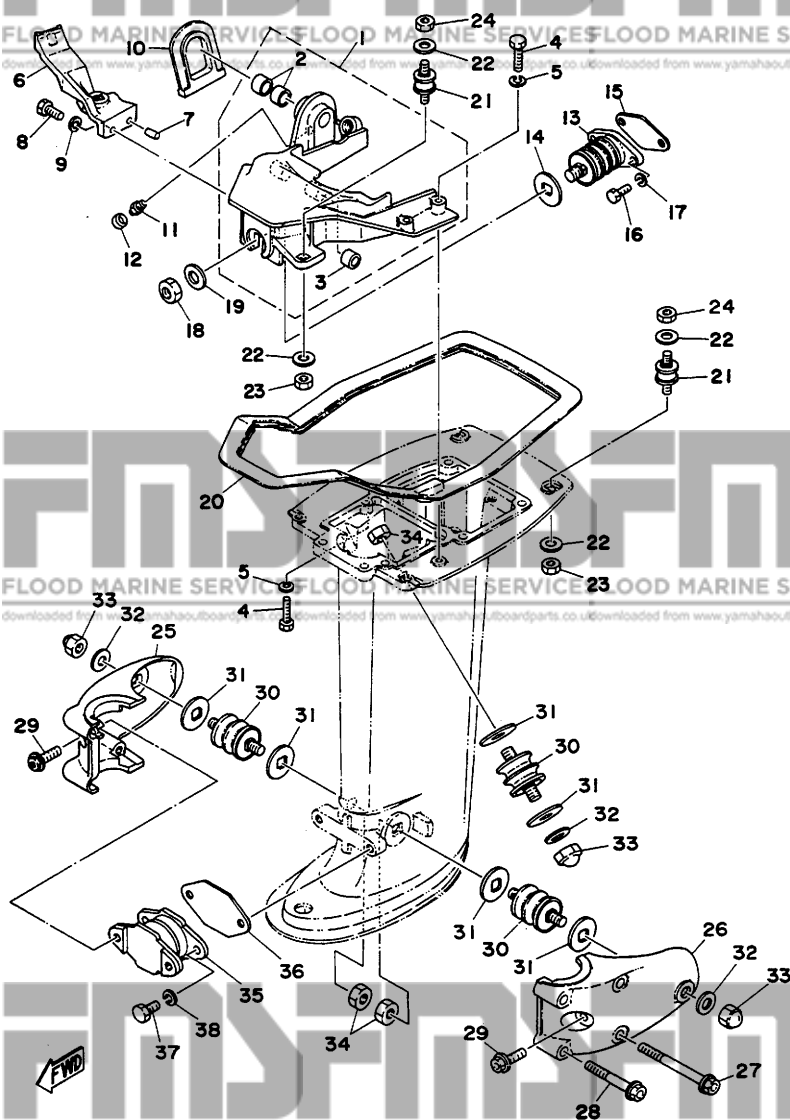
Fig. 9 TILT LOCK



TILT LOCK

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
9- 1	648-43631-00	LEVER, tilt 1	1	1	20AS~ 07615 L~ 35210 20AE~ 25325 L~ 55225
	* 656-43631-00	LEVER, tilt 1	1	1	20AS~ 08291 ~ L~ 37266 ~ 20AE~ 25326 ~ L~ 55226 ~
9- 2	90508-16018	SPRING, torsion (648-43619-00)...	1	1	
9- 3	648-43616-00	ROD, tilt lock 1	1	1	
9- 4	648-43633-00	COVER, tilt lock 1	1	1	
9- 5	90149-08004	SCREW (626-43645-00)	1	1	20AS~ 06115 L~ 36400 20AE~ 25285 L~ 55150
9- 6	90249-06120	PIN	1	1	20AS~ 06116 ~ L~ 36401 ~ 20AE~ 25286 ~ L~ 55151 ~
9- 7	93430-05027	CIRCLIP	1	1	
9- 8	648-43617-00	ROD, tilt lock 2	1	1	
9- 9	648-43642-00	LEVER, tilt lock 2	1	1	
9-10	648-43614-00-F6	PLATE, tilt lock 1	1	1	Metallic Ocean Blue
9-11	90506-30055	SPRING, tension (648-43656-00) ..	1	1	
9-12	648-43615-00-F6	PLATE, tilt lock 2	1	1	Metallic Ocean Blue
9-13	90240-05046	PIN, with hole	1	1	
9-14	91490-16010	PIN, cotter	2	2	20AS~ 05965 L~ 36245 20AE~ 25285 L~ 55150
	91490-16010	PIN, cotter	1	1	20AS~ 05966 ~ L~ 36246 ~ 20AE~ 25286 ~ L~ 55151 ~
9-15	656-43160-00	TILT ROD ASS'Y	1	1	
9-16	656-43165-00	. STOPPER PLATE	1	1	20AS~ 07100 L~ 36835 20AE~ 25325 L~ 55210
9-17	91690-30008	. PIN, spring	1	1	
9-18	90502-10014	SPRING, conical (611-43162-00)...	1	1	
9-19	* 656-43160-01	TILT ROD ASS'Y	1	1	
9-20	* 656-43165-01	. STOPPER PLATE	1	1	20AS~ 07101 ~ L~ 36836 ~ 20AE~ 25326 ~ L~ 55211 ~
9-21	91690-30008	. PIN, spring	1	1	

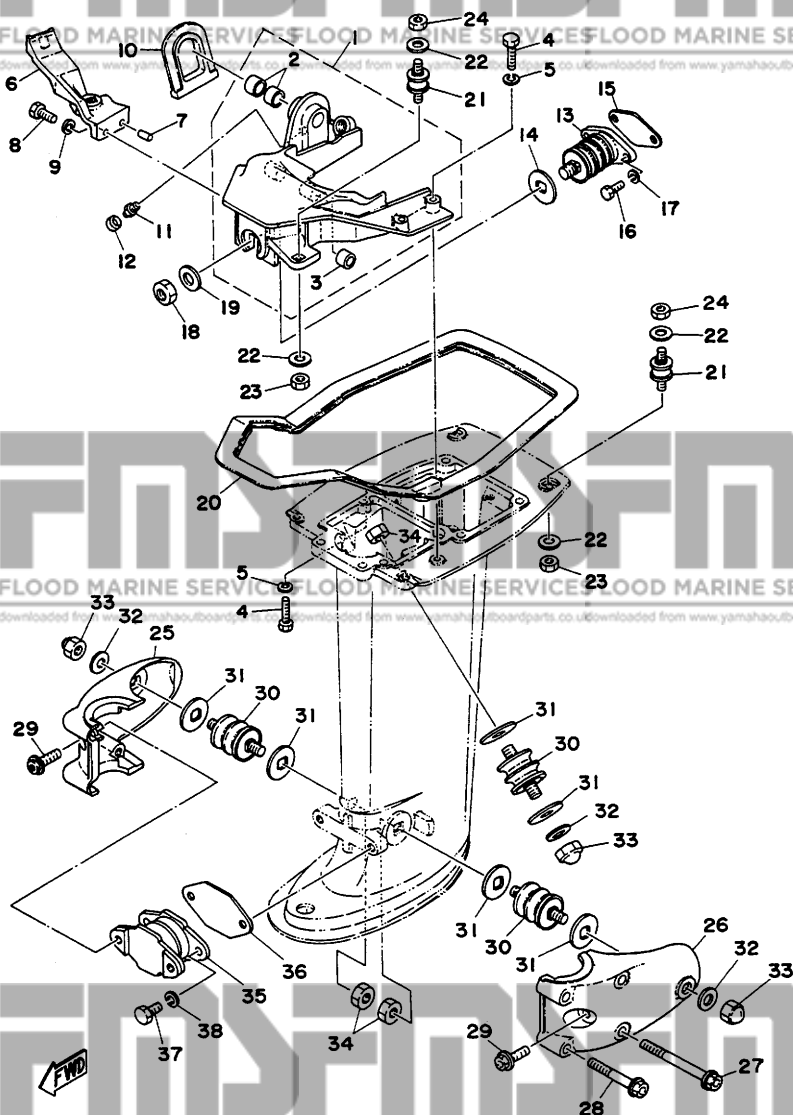
Fig. 10 MOUNTING



MOUNTING

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
10- 1	648-44508-00-F6	BRACKET COMP.	1	1		Metallic Ocean Blue
10- 2	90380-12012	. BUSHING, solid (648-44122-00)	2	2		
10- 3	90380-10010	. BUSHING, solid (648-44185-00)	2	2	20AS- ~ 07615 L- ~ 37210 20AES- ~ 25325 ~ ~ 55225 20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55226 ~	
	90380-10M01	. BUSHING	2	2		
10- 4	97370-06025	BOLT, hexagon	4	4		
10- 5	92990-06100	WASHER, spring	4	4		
10- 6	648-44519-00-F6	BRACKET 2	1	1		Metallic Ocean Blue
10- 7	93606-12019	PIN, dowel B (6-12)	1	1		
10- 8	97370-06018	BOLT, hexagon	1	1		
10- 9	92990-06100	WASHER, spring	1	1		
10-10	648-42718-00	RUBBER, seal 3	1	1		
10-11	93700-06004	NIPPLE, grease	1	1		
10-12	663-45119-00	CAP, grease nipple	1	1		
10-13	648-44516-02	MOUNT RUBBER, upper front ...	1	1		
10-14	648-44591-00	GASKET, mount rubber 1	1	1	20AS-02416 ~ L-31591 ~ 20AES-35141 ~ L-55111 ~	
10-15	648-44592-00	GASKET, mount rubber 2	1	1		
10-16	97370-06015	BOLT, hexagon	2	2		
10-17	92990-06100	WASHER, spring	2	2		
10-18	92880-10200	NUT	1	1		
10-19	92990-10200	WASHER, plain	1	1		
10-20	648-42716-00	RUBBER, seal 1	1	1		
10-21	648-44517-00	MOUNT RUBBER, upper	4	4		
10-22	92990-08600	WASHER, plate	8	8		
10-23	95303-08700	NUT, hexagon	4	4		
10-24	95380-08700	NUT, hexagon	4	4		
10-25	648-44551-01-F6	HOUSING, lower mount rubber 1	1	1		Metallic Ocean Blue
10-26	648-44552-01-F6	HOUSING, lower mount rubber 2	1	1		Metallic Ocean Blue
10-27	97470-08080	BOLT, hexagon	2	2		
10-28	97470-08050	BOLT, hexagon	2	2		
10-29	97470-08020	BOLT, hexagon	2	2		

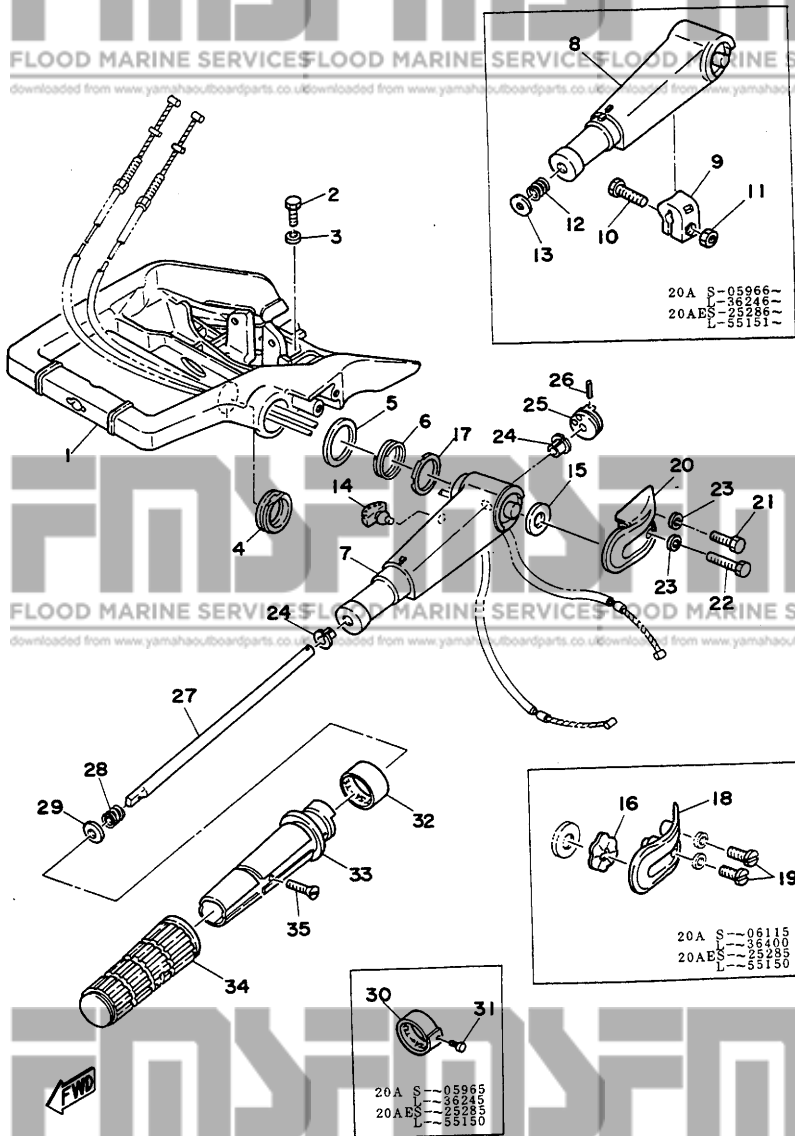
Fig. 10 MOUNTING



MOUNTING

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
10-30	648-44555-02	MOUNT RUBBER, lower side	4	4	
10-31	648-44591-00	GASKET, mount rubber 1	8	8	{ 20AS-02416 ~ L-31591 ~ 20AES-25141 ~ L-55111 ~
10-32	92990-10200	WASHER, plain	4	4	
10-33	92890-10700	NUT, crown	4	4	
10-34	92880-10200	NUT, hexagon	4	4	
10-35	648-44557-03	MOUNT RUBBER, lower front	1	1	
10-36	648-44593-00	GASKET, mount rubber 3	1	1	{ 20AS-02416 ~ L-31591 ~ 20AES-25141 ~ L-55111 ~
10-37	97370-08015	BOLT, hexagon	2	2	
10-38	92990-08100	WASHER, spring	2	2	

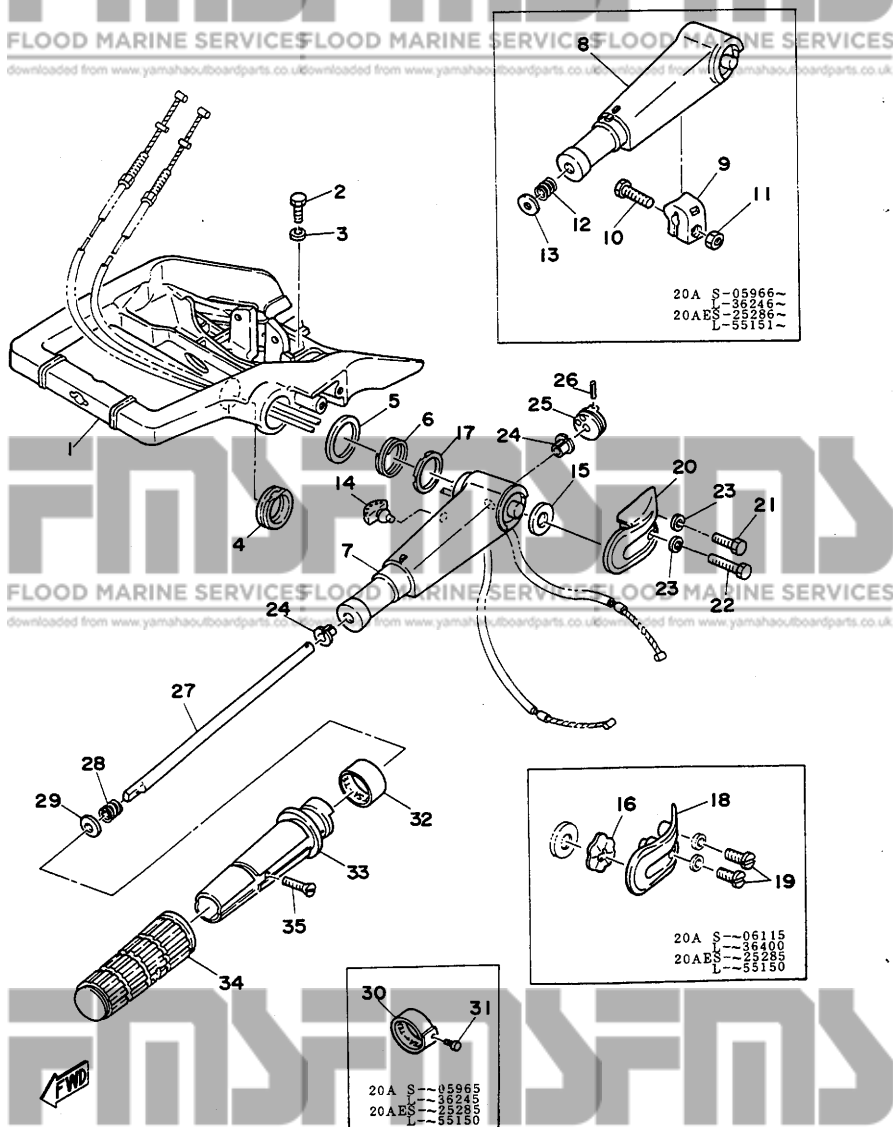
Fig. 11 HANDLE



HANDLE

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
11- 1	656-42511-01-F6	BRACKET, steering	1	1	Metallic Ocean Blue
11- 2	97370-06020	BOLT, hexagon	4	4	
11- 3	92990-06100	WASHER, spring	4	4	
11- 4	90480-29045	GROMMET (648-42551-00)	1	1	
11- 5	90202-34043	SPACER, handle 2	1	1	
11- 6	90501-20001	SPRING, compression	1	1	
11- 7	656-42111-00-F6	HANDLE, steering 1	1	1	20AS ~ 05965 L ~ 36245 20AES ~ 25285 L ~ 55150 Metallic Ocean Blue
11- 8	656-42111-02-F6	HANDLE, steering 1	1	1	Metallic Ocean Blue
11- 9	656-42126-01	PIECE, friction	1	1	
11-10	97380-06020	BOLT, hexagon	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~
11-11	90185-06062	NUT, hexagon	1	1	
11-12	90501-23215	SPRING, compression	1	1	
11-13	92990-10600	WASHER, plate	1	1	
11-14	606-42591-00	HOLDER, shear pin	1	1	
11-15	90560-14076	SPACER, handle (648-42155-00)	1	1	
11-16	90206-14020	WASHER, wave (648-42188-00)	1	1	20AS ~ 06115 L ~ 36400 20AES ~ 25285 L ~ 55150
11-17	656-42155-00	SPACER, handle 1	1	1	20AS-04456 ~ L-3791 ~ 20AES-25191 ~ L-55121 ~
11-18	648-42112-00-F6	HANDLE, steering 2	1	1	20AS ~ 06115 L ~ 36400 20AES ~ 25285 L ~ 55150 Metallic Ocean Blue
11-19	92380-06020	SCREW, cylinderhead	2	2	
11-20	656-42112-00-F6	HANDLE, steering 2	1	1	Metallic Ocean Blue
11-21	97323-06020	BOLT, hexagon	1	1	20AS-06116 ~ L-36401 ~ 20AES-25286 ~ L-55151 ~
11-22	97323-06035	BOLT, hexagon	1	1	
11-23	92990-06100	WASHER, spring	2	2	
11-24	90386-08032	BUSHING	2	2	
11-25	648-42138-00	LEVER, throttle	1	1	
11-26	91690-30025	PIN, spring	1	1	
11-27	656-42115-00	SHAFT, steering handle	1	1	
11-28	90501-23215	SPRING, compression	1	1	20AS ~ 05965 L ~ 36245 20AES ~ 25285 L ~ 55150
	90501-16375	SPRING, compression	1	1	20AS-05966 ~ 06275 L-36246 ~ 36580

Fig. 11 HANDLE



HANDLE

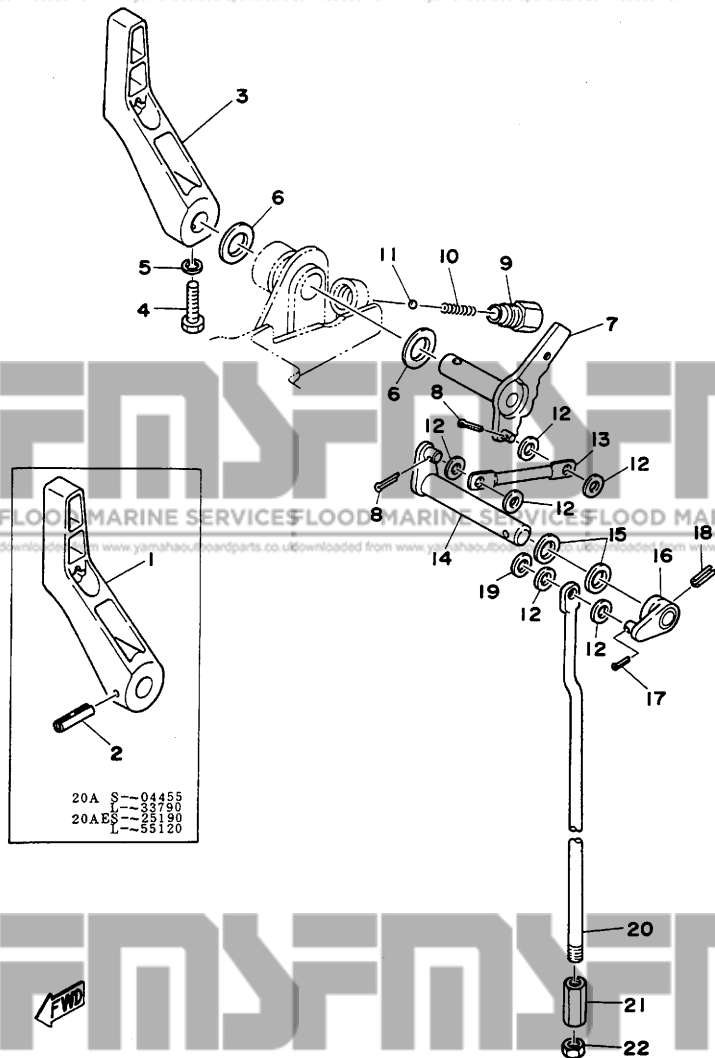
Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
11-29	92990-10600	WASHER, plain	1	1	{ 20AS-~05965 L-~36245 20AES-~25285 L-~55150	
	656-42126-00	FRICTION, steering handle grip	1		{ 20AS-05966~06275 L-36246~36580	
11-30	647-42137-01	INDICATOR, throttle	1	1	{ 20AS-~05965 L-~36245 20AES-~25285 L-~55150	▽
11-31	90269-02001	RIVET	1	1		
11-32	647-42137-02	INDICATOR, throttle	1	1	{ 20AS-05966~ L-36246~ 20AES-05986~ L-55151~	
11-33	647-42119-02	GRIP, steering handle	1	1		
11-34	647-42177-00	RUBBER, handle	1	1		
11-35	98180-05025	SCREW, ovalhead	1	1		



Fig. 12 GEAR SHIFT

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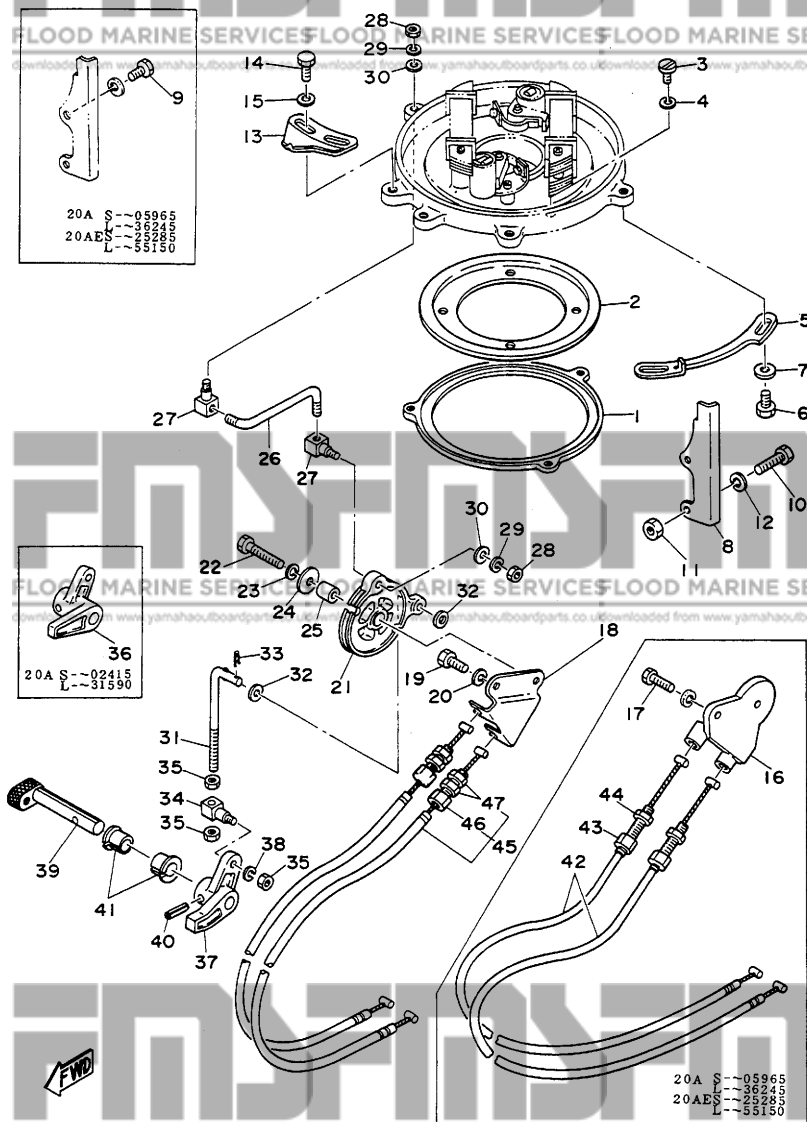
GEAR SHIFT

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
12- 1	648-44111-00	F6 HANDLE, gear shift	1	1	Metallic Ocean Blue
12- 2	91690-40022	PIN, spring	1	1	
12- 3	656-44111-80	F6 HANDLE, gear shift	1	1	Metallic Ocean Blue
12- 4	97370-06025	BOLT, hexagon	1	1	
12- 5	92990-06100	WASHER, spring	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12- 6	90202-12031	WASHER, plate (648-44126-00)	2	2	
12- 7	656-44113-00	CAM, plate handle	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
	656-44113-01	CAM, plate handle	1	1	
12- 8	91490-16010	PIN, cotter	2	2	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12- 9	648-42715-00	BUSHING 2	1	1	
12-10	90501-12082	SPRING (648-44116-00)	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12-11	93501-04011	BALL (1/4 inch)	1	1	
12-12	90202-06007	WASHER (626-44188-00)	6	6	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12-13	648-44142-00	JOINT	1	1	
12-14	648-44121-00	LEVER, shift rod 1	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12-15	90202-10024	WASHER, plate (648-44188-00)	2	2	
12-16	648-44125-00	LEVER, shift rod 2	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12-17	91490-25012	PIN, cotter	1	1	
12-18	91690-40016	PIN, spring	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12-19	92990-05600	WASHER, plate	1	1	
12-20	648-44143-00	ROD, shift 1	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~
12-21	648-44146-00	CONNECTOR, shift rod 2	1	1	
12-22	90170-07021	NUT, hexagon (648-44128-00)	1	1	20AS-~04455~ L-~33790~ 20AES-~25190~ L-~55120~

THROTTLE CONTROL

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
13- 1	648-41611-00-94	RETAINER, magneto base 1	1	1		
13- 2	648-41612-01	RETAINER, magneto base 2	1	1		
13- 3	97803-05010	SCREW, panhead	3	3		
13- 4	92903-05100	WASHER, spring	3	3		
13- 5	648-41615-00	STOPPER, magneto base 1	1	1		20AS ~ 05430 L ~ 35350 20AES ~ 25190 L ~ 55120
	648-41615-01	STOPPER, magneto base 1	1	1		20AS-05431 ~ L-35351 ~ 20AES-25191 ~ L-55121 ~
13- 6	97323-06010	BOLT, hexagon	2	2		
13- 7	92990-06600	WASHER, plate	2	2		
13- 8	648-41616-00	STOPPER, magneto base 2	1	1		
13- 9	97323-06010	BOLT, hexagon	2	2		20AS ~ 05965 L ~ 35245 20AES ~ 25285 L ~ 55150
13-10	97323-06020	BOLT, hexagon	2	2		20AS-05966 ~ L-35246 ~ 20AES-25286 ~ L-55151 ~
13-11	95303-06600	NUT, hexagon	2	2		
13-12	92903-06100	WASHER, spring	2	2		
13-13	648-41213-00-94	CAM, accel.	1	1		
13-14	97323-05012	BOLT, hexagon	2	2		
13-15	92903-05600	WASHER, plate	2	2		
13-16	648-41661-00-94	BRACKET 1	1	1		20AS ~ 05965 L ~ 35245 20AES ~ 25285 L ~ 55150
13-17	97323-06018	BOLT, hexagon	1	1		
13-18	656-14497-00	STAY, throttle wire	1	1		20AS-05966 ~ L-35246 ~ 20AES-25286 ~ L-55151 ~
13-19	97323-06015	BOLT, hexagon	1	1		
13-20	92903-06100	WASHER, spring	1	1		
13-21	648-41631-00-94	LEVER, magneto control 1	1	1		
13-22	97323-06030	BOLT, hexagon	1	1		
13-23	92903-06100	WASHER, spring	1	1		
13-24	648-41656-00	BUSHING	1	1		
13-25	90380-06001	BUSHING, solid (648-41655-00) ...	1	1		20AS ~ 07615 L ~ 37210 20AES ~ 55225 L ~ 55225
	90387-06M02	COLLAR	1	1		20AS-08281 ~ L-37216 ~ 20AES-25326 ~ L-55226 ~
13-26	648-41636-00	ROD, magneto control 1	1	1		20AS ~ 05430 L ~ 35350 20AES ~ 25190 L ~ 55120
	648-41636-01	ROD, magneto control 1	1	1		20AS-05431 ~ L-35351 ~ 20AES-25191 ~ L-55121 ~
13-27	648-41635-00	SHAFT, link connecting	2	2		

Fig. 13 THROTTLE CONTROL



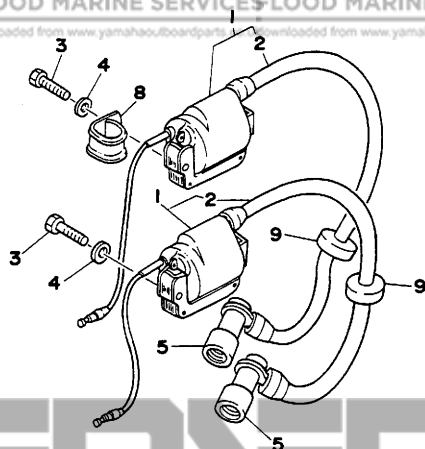
THROTTLE CONTROL

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
13-28	95303-05600	NUT, hexagon	2	2		
13-29	92903-05100	WASHER, spring	2	2		
13-30	92903-05600	WASHER, plate	2	2		
13-31	648-42169-01	JOINT	1	1		
13-32	92903-05600	WASHER, plate	2	2		
13-33	90468-10005	CLIP (626-41235-00)	1	1		
13-34	90249-05014	PIN (648-42195-00)	1	1		
13-35	95303-05600	NUT, hexagon	3	3		
13-36	648-42154-01-94	LEVER, throttle control	1		{ 20AS ~ 02415 L ~ 31590	
13-37	656-42154-00-94	LEVER, throttle control	1	1	{ 20AS-02416 ~ L-31591 ~ 20AES-25101 ~ L-55101 ~	
13-38	92903-05100	WASHER, spring	1	1		
13-39	648-42153-01-F6	SHAFT, throttle control	1		{ 20AS ~ 02415 L ~ 31590	Metallic Ocean Blue
	656-42153-00-F6	SHAFT, throttle control	1	1	{ 20AS-02416 ~ L-31591 ~ 20AES-25101 ~ L-55101 ~	Metallic Ocean Blue
13-40	91690-40022	PIN, spring	1	1	{ 20AS ~ 05965 L ~ 36245 20AES ~ 25285 L ~ 55150	
	91690-40018	PIN, spring	1	1	{ 20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~	
13-41	90386-10009	BUSHING 2 (648-44186-00)	2	2		
13-42	648-26311-01	WIRE, throttle	2	2	{ 20AS ~ 05965 L ~ 36245 20AES ~ 25285 L ~ 55150	
13-43	648-26317-00	ADJUSTER, cable	2	2		
13-44	90179-06040	NUT (648-26319-00)	2	2		
13-45	664-26311-00	THROTTLE WIRE COMP.	2	2	{ 20AS-05966 ~ 07615 L-36246 ~ 27210 20AES-25286 ~ 25325 L-55151 ~ 55225	◇
	* 664-26311-01	THROTTLE WIRE COMP.	2	2	{ 20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55226 ~	
13-46	90123-06065	. BOLT, wire adjusting	2	2	{ 20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~	
13-47	90170-06183	. NUT, hexagon	4	4		

Fig. 14 ELECTRICAL

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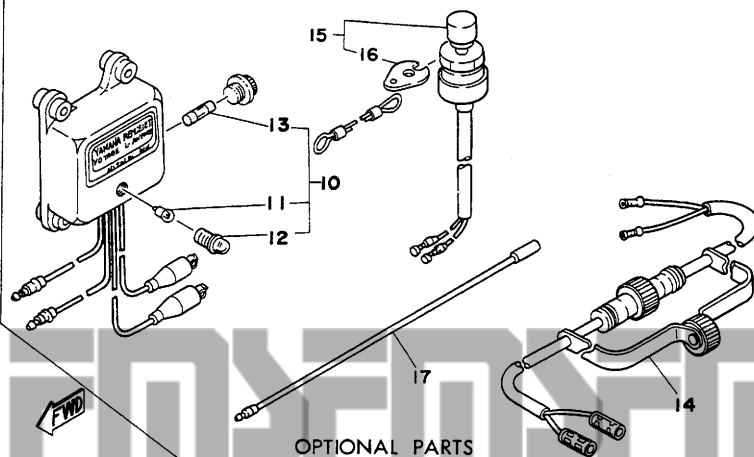
20A S-08281
L-37266
20A ES-25326
L-55226



Noise Suppressor

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OPTIONAL PARTS

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ELECTRICAL

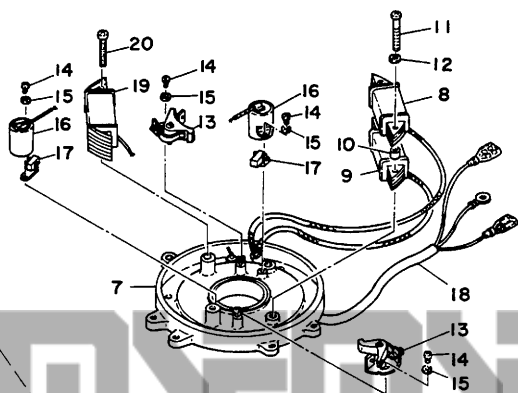
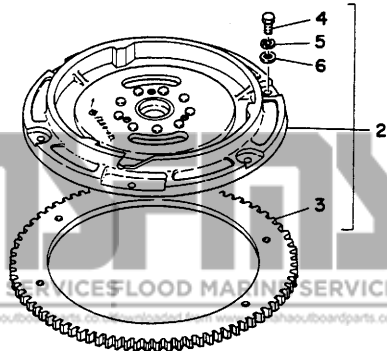
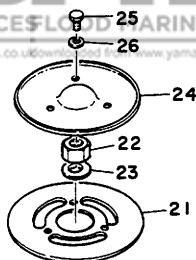
Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
14- 1	650-82310-12	IGNITION COIL ASS'Y	2	2	20AS~08280 L~37265 20AES~25325 L~55225 20AS~08281 L~37266 20AES~25326 L~55226~
	* 655-82310-11	IGNITION COIL ASS'Y	2	2	
14- 2	650-82340-10	. CORD, hightension	2	2	
14- 3	97323-06025	BOLT, hexagon	4	4	
14- 4	92903-06600	WASHER, plate	4	4	
14- 5	624-82370-00	PLUG CAP ASS'Y	2	2	20AS~07615 L~37210 20AES~25325 L~55225 20AS~08281 L~37266 20AES~25326 L~55226~
14- 6	* 663-82370-01	PLUG CAP ASS'Y	2	2	
14- 7	650-82370-00	PLUG CAP ASS'Y	2	2	Noise Suppressor
14- 8	90465-06038	CLAMP (650-82362-00)	1	1	
14- 9	90480-25161	GROMMET	2	2	

OPTIONAL PARTS

14-10	648-81970-41	RECTIFIER ASS'Y	1	
14-11	648-81977-40	. BULB, rectifier (12V-3W)	1	
14-12	648-81978-40	. LENS, rectifier	1	
14-13	648-82151-41	. FUSE, rectifier (12V-7A)	1	
14-14	616-83180-30	CONCENT 2P ASS'Y	1	
14-15	664-82575-41	KILL SWITCH ASS'Y	1	
14-16	663-82556-70	. STOPPER	1	
14-17	664-82521-00	WIRE, lead 1	2	



Fig. 15 FLYWHEEL MAGNETO (40W)



FLYWHEEL MAGNETO (40W)

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
15- 1	648-81300-63	FLYWHEEL MAGNETO ASS'Y	1	1	
15- 2	648-81350-11	. ROTOR ASS'Y	1	1	With Ring Gear
15- 3	648-81891-00	. . GEAR, ring	1	1	
15- 4	97303-06018	. . BOLT, hexagon	6	6	
15- 5	92903-06100	. . WASHER, spring	6	6	
15- 6	92903-06600	. . WASHER, plate	6	6	
15- 7	648-81309-12	. BASE, magneto	1	1	
15- 8	647-81311-10	. COIL, ignition 1	1	1	
15- 9	647-81312-10	. COIL, ignition 2	1	1	
15-10	647-81318-10	. TUBE	2	2	
15-11	647-81323-10	. SCREW 1 (5-35)	2	2	20AS ~ 05965 20AES ~ 36243 20AES ~ 25285 L ~ 55150
15-12	92901-05100	. WASHER, spring	2	2	
15-13	650-81321-10	. CONTACT BREAKER ASS'Y	2	2	
15-14	164-81246-21	. SCREW, panhead (4-8)	4	4	
15-15	92901-04100	. WASHER, spring	4	4	
15-16	647-81325-11	. CONDENSER	2	2	
15-17	207-81331-10	. LUBRICATOR	2	2	
15-18	648-81315-10	. LEAD WIRE ASS'Y	1	1	
15-19	647-81313-41	. COIL, lighting (40W)	1	1	
15-20	98502-05030	. SCREW, panhead	2	2	
15-21	648-81365-00	PACKING	1	1	
15-22	90170-12066	NUT, hexagon (648-11555-00)	1	1	
15-23	90201-12472	WASHER, plate (648-11557-00)	1	1	
15-24	648-81362-00	COVER, hole	1	1	
15-25	97323-06012	BOLT, hexagon	3	3	
15-26	92990-06600	WASHER, plate	3	3	

Fig. 16 FLYWHEEL MAGNETO (80W)

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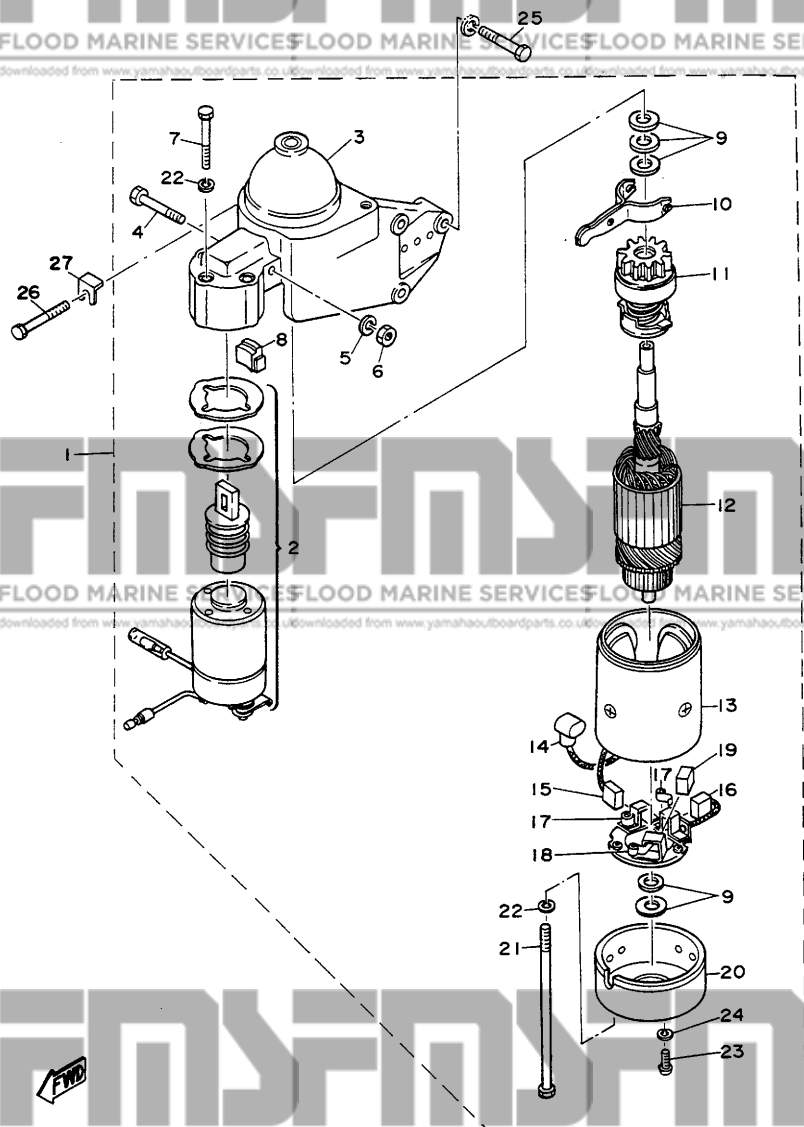


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FLYWHEEL MAGNETO (80W)

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
16- 1	664-81300-F0	FLYWHEEL MAGNET ASS'Y	1	20A 20AE	
	664-81300-A0	FLYWHEEL MAGNET ASS'Y	1		
16- 2	664-81350-F0	. ROTOR ASS'Y	1		
16- 3	664-81350-A0	. ROTOR ASS'Y	1		
16- 4	648-81891-00	. . GEAR, ring	1		
16- 5	97303-06018	. . BOLT, hexagon	6		
16- 6	92903-06100	. . WASHER, spring	6		
16- 7	92903-06200	. . WASHER, plain	6		
16- 8	648-81309-12	. BASE, magneto	1	1	
16- 9	655-81311-A0	. COIL, ignition	1	1	
16-10	655-81312-A0	. COIL, ignition	1	1	
16-11	647-81318-10	. TUBE	2	2	20AS-05966 ~ L-36248 ~ 20AES-25286 ~ L-55151 ~
16-12	647-81323-10	. SCREW 1 (5-35)	2	2	
16-13	92901-05100	. WASHER, spring	2	2	
16-14	650-81321-10	. CONTACT BREAKER ASS'Y	2	2	
16-15	647-81325-11	. CONDENSER	2	2	
16-16	207-81331-10	. LUBRICATOR	2	2	
16-17	164-81246-21	. SCREW, panhead (4-8)	4	4	
16-18	92901-04100	. WASHER, spring	4	4	
16-19	648-81315-10	. LEAD WIRE ASS'Y	1	1	
16-20	655-81313-A0	. COIL, lighting (80W)	1	1	
16-21	647-81324-10	. SCREW 2 (5-30)	2	2	

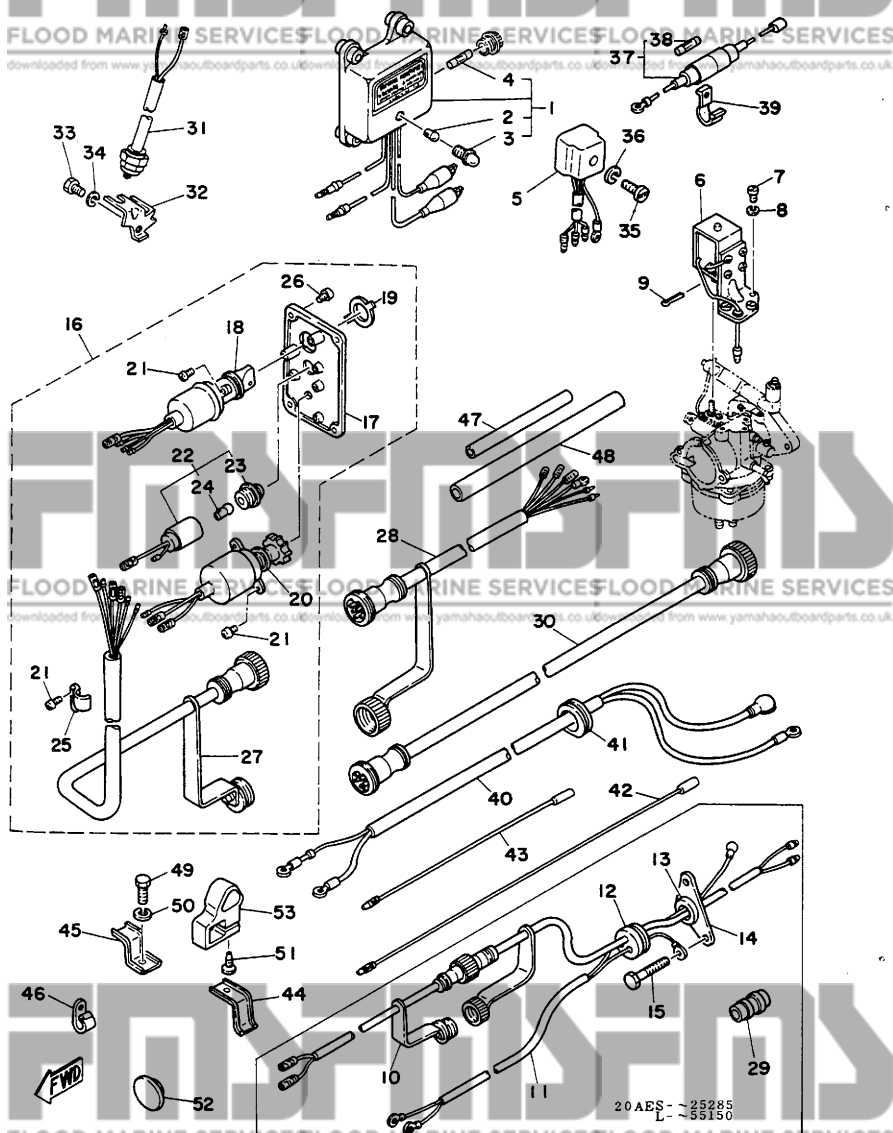
Fig. 17 ELECTRIC MOTOR



ELECTRIC MOTOR

Ref. No.	Parts No.	Description	Q'ty 20A2	Applicable Machine No.	Remarks
17- 1	648-81800-41	ELECTRIC MOTOR ASS'Y	1		
17- 2	648-81860-40	. MAGNETIC SWITCH 1	1		
17- 3	648-81830-41	. GEAR CASE ASS'Y	1		
17- 4	648-81828-40	. BOLT 2	1		
17- 5	92903-06100	. WASHER, spring	1		
17- 6	95301-06600	. NUT, hexagon	1		
17- 7	648-81846-40	. BOLT 3	3		
17- 8	648-81829-40	. GROMMET	1		
17- 9	648-81809-40	. WASHER KIT	1		
17-10	648-81839-40	. LEVER, shift	1		
17-11	648-81832-40	. GEAR ASS'Y	1		
17-12	648-81850-40	. ARMATURE ASS'Y 1	1		
17-13	648-81810-40	. STATOR ASS'Y	1		
17-14	648-81862-40	. CAP	1		
17-15	648-81811-40	. BRUSH 1 (+)	1		
17-16	648-81812-40	. BRUSH 2 (-)	1		
17-17	648-81813-40	. SPRING, brush	2		
17-18	648-81814-40	. SPRING, friction piece	1		
17-19	648-81827-40	. PIECE, friction	1		
17-20	648-81820-40	. REAR COVER ASS'Y	1		
17-21	648-81826-40	. BOLT	2		
17-22	92903-05100	. WASHER, spring	5		
17-23	98503-04012	. SCREW, panhead	2		
17-24	92901-04100	. WASHER, spring	2		
17-25	97323-06035	BOLT, hexagon	1		
17-26	97323-06040	BOLT, hexagon	1		
17-27	648-81893-40	SHIM, gear adjusting	1		

Fig. 18 ELECTRIC STARTER UNIT



20AES-25285
L-55150

ELECTRIC STARTER UNIT

Ref. No.	Parts No.	Description	Q'ty 20AE	Applicable Machine No.	Remarks
18- 1	648-81970-41	RECTIFIER ASS'Y	1		
18- 2	648-81977-40	. BULB, rectifier (12V-3W)	1		
18- 3	648-81978-40	. LENS, rectifier	1		
18- 4	648-82151-41	. FUSE, rectifier (12V-7A)	1		
18- 5	664-81970-60	RECTIFIER ASS'Y	1	20AES-25286~ L-55151~	
18- 6	648-86110-40	SOLENOID ASS'Y	1	20AES-~25285 L-55150	◇
	656-86110-40	SOLENOID ASS'Y	1	20AES-25286~ L-55151~	
18- 7	98303-04008	. SCREW, cylinderhead	3		
18- 8	92990-04100	. WASHER, spring	3		
18- 9	91490-20015	. PIN, cotter	1		
18-10	648-84380-40	CONCENT 2P ASS'Y	1		
18-11	656-82105-40	LEAD WIRE ASS'Y	1		
18-12	90480-22042	. GROMMET (648-42724-40)	1		
18-13	90480-19031	GROMMET (648-48176-40)	1	20AES-~25285 L-55150	
18-14	90465-20061	CLAMP (648-82544-40)	1		
18-15	97303-06040	BOLT, hexagon	1		
18-16	648-82570-40	SWITCH PANEL ASS'Y	1		
18-17	648-82571-40	. PANEL, switch	1		
18-18	648-82508-40	. MAIN SWITCH ASS'Y	1		
18-19	648-82584-40	. CAP, switch	1		
18-20	648-82502-40	. SUB-SWITCH ASS'Y	1		
18-21	648-82573-40	. SCREW, special 2	6		
18-22	648-84301-40	. PILOT LAMP ASS'Y	1		
18-23	648-83583-40	. . LENS, pilot	1		
18-24	123-83516-21	. . BULB, pilot (12V-3W)	1		
18-25	648-82594-40	. CLAMP, wire harness	1		
18-26	648-82572-40	. SCREW, special 1	4		
18-27	648-82580-40	. WIRE HARNESS ASS'Y 2	1		



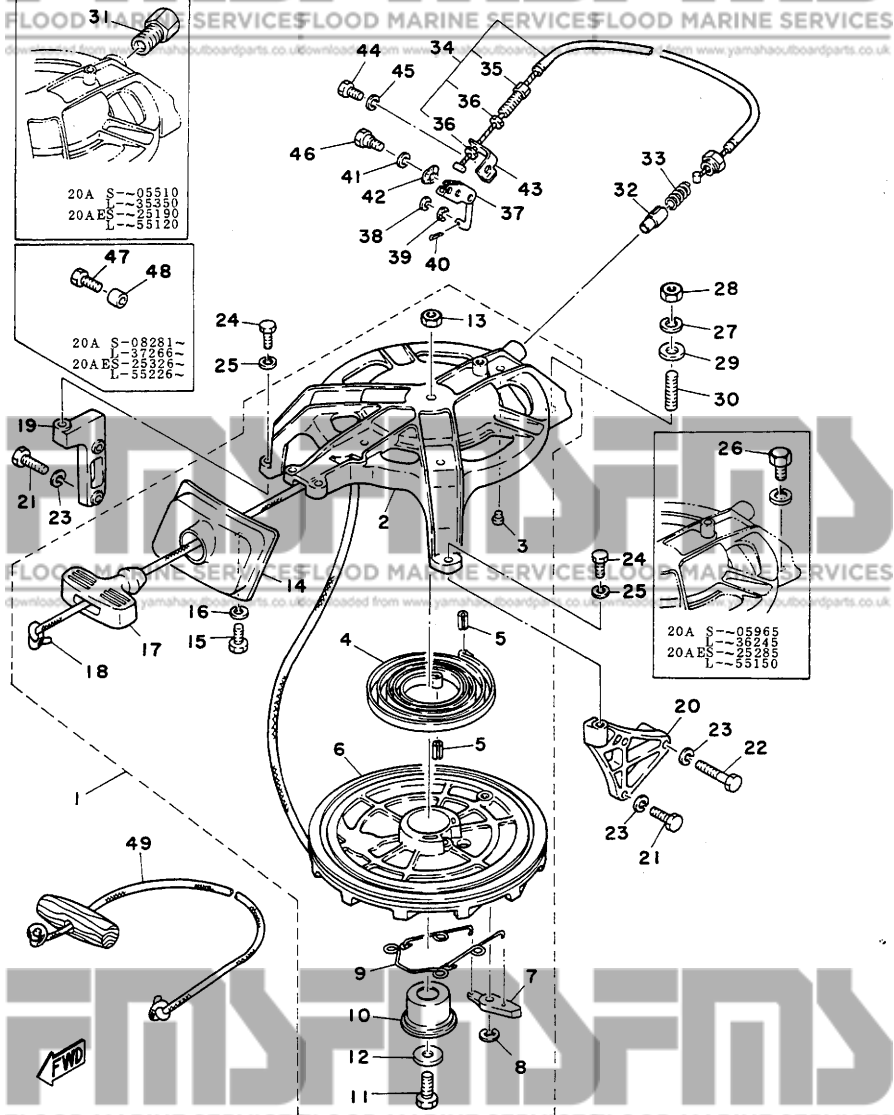
Fig. 18 ELECTRIC STARTER UNIT



ELECTRIC STARTER UNIT

Ref. No.	Parts No.	Description	Q'ty 20A 20AE	Applicable Machine No.	Remarks
18-28	656-82590-40	WIRE HARNESS ASS'Y 1	1	{ 20AES-25285 L-55151	
	664-82590-00	WIRE HARNESS ASS'Y 1	1	{ 20AES-25286~ L-55151	
18-29	90480-16024	GROMMET (648-42725-40)	1	{ 20AES-~25285 L-55150	
18-30	656-82586-40	EXTENSION, wire harness	1		
18-31	656-82540-41	NEUTRAL SWITCH ASS'Y	1		
18-32	656-15774-41	STAY 4	1		
18-33	97303-06012	BOLT, hexagon	1		
18-34	92903-06100	WASHER, plate	1		
18-35	97803-05025	SCREW, panhead	1		
18-36	92903-05100	WASHER, spring	1		
18-37	664-82150-01	FUSE HOLDER ASS'Y	1		
18-38	663-82151-00	. FUSE	1		
18-39	90462-10021	CLAMP	1		
18-40	664-82105-00	LEAD WIRE ASS'Y	1		
18-41	664-42724-40	GROMMET 1	1		
18-42	664-82521-00	WIRE, lead 1	2		
18-43	664-82531-00	WIRE, lead 2	1	{ 20AES-25286~ L-55151	
18-44	90465-10071	CLAMP	1		
18-45	90462-10018	CLAMP	2		
18-46	90461-06015	CLAMP	1		
18-47	90446-10105	HOSE	1		
18-48	90446-15104	HOSE (13-15-200)	1		
18-49	97323-06015	BOLT, hexagon	3		
18-50	92903-06100	WASHER, spring	3		
18-51	90161-06001	SCREW, flathead tapping	1		
18-52	90480-17165	GROMMET	1		
18-53	90464-18018	CLAMP	1		

Fig. 19 MANUAL STARTER

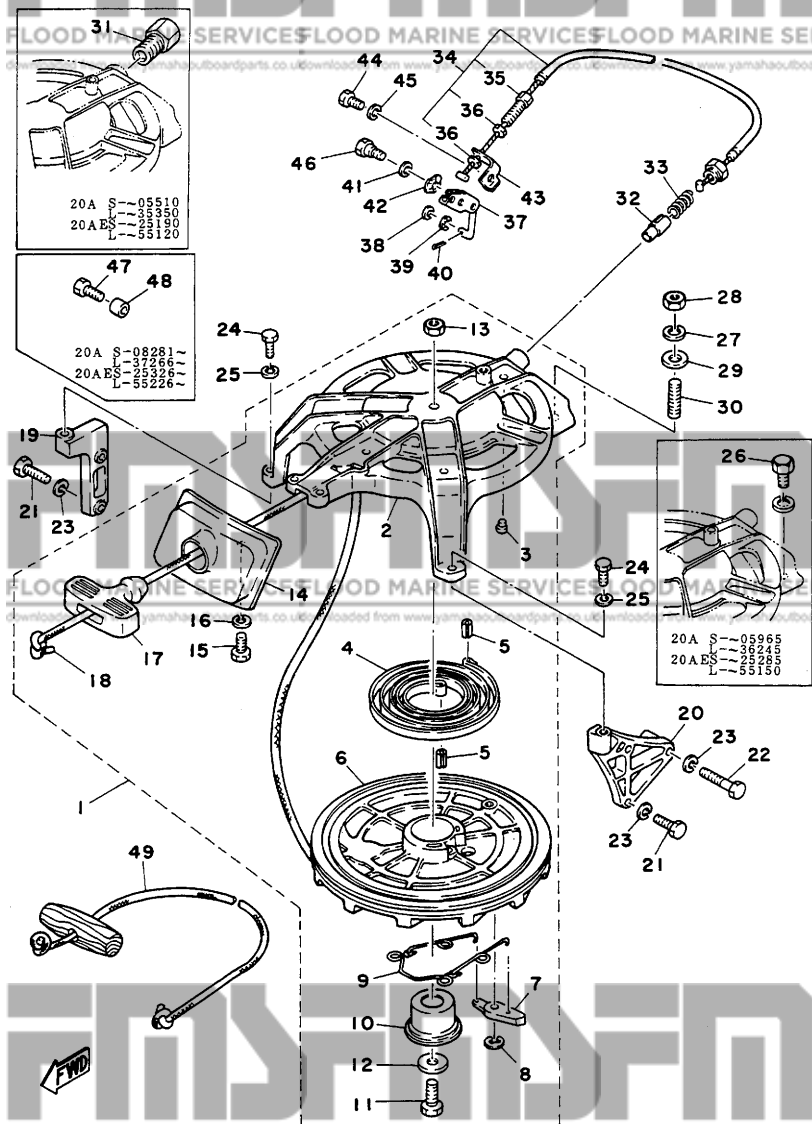


MANUAL STARTER

Ref. No.	Parts No.	Description	Q'ty 20A 20AE	Applicable Machine No.	Remarks
19- 1	656-15710-01-F6	STARTER ASS'Y	1	1	Metallic Ocean Blue
19- 2	656-15711-01-F6	CASE, starter	1	1	Metallic Ocean Blue
19- 3	648-15773-00	STAY 3	6	6	
19- 4	90510-08002	SPRING, spiral (656-15713-00)	1	1	
19- 5	91690-40020	PIN, spring	2	2	
19- 6	656-15714-00-94	DRUM, sheave	1	1	
19- 7	648-15741-01	PAWL, drive	1	1	
19- 8	93430-06005	CIRCLIP (E-6)	1	1	
19- 9	648-15705-00	SPRING DRIVE PAWL ASS'Y	1	1	{ 20AS ~ 02415 L ~ 31590
	656-15705-00	SPRING DRIVE PAWL ASS'Y	1	1	{ 20AS-02416 ~ L-31591 20AES-25101 ~ L-55101 ~
19-10	648-15717-00	SHAFT	1	1	
19-11	97323-08025	BOLT, hexagon	1	1	
19-12	90201-08309	WASHER, plate (647-42548-00)	1	1	
19-13	95303-08600	NUT, hexagon	1	1	
19-14	648-15758-00-F6	GUIDE, wire	1	1	Metallic Ocean Blue
19-15	97323-06015	BOLT, hexagon	2	2	
19-16	92903-06100	WASHER, spring	2	2	
19-17	619-15755-01	HANDLE, starter	1	1	
19-18	90580-05003	WIRE (648-15751-00)	1	1	
19-19	648-15771-00-94	STAY 1	1	1	
19-20	648-15772-00-94	STAY 2	1	1	
19-21	97323-06025	BOLT, hexagon	4	4	
19-22	97323-06040	BOLT, hexagon	1	1	
19-23	92903-06100	WASHER, spring	5	5	
19-24	97323-06020	BOLT, hexagon	2	2	
19-25	92903-06100	WASHER, spring	2	2	
19-26	97323-08020	BOLT, hexagon	1	1	{ 20AS ~ 05965 L ~ 36245 20AES ~ 55285 L ~ 55150
19-27	92903-08100	WASHER, spring	1	1	



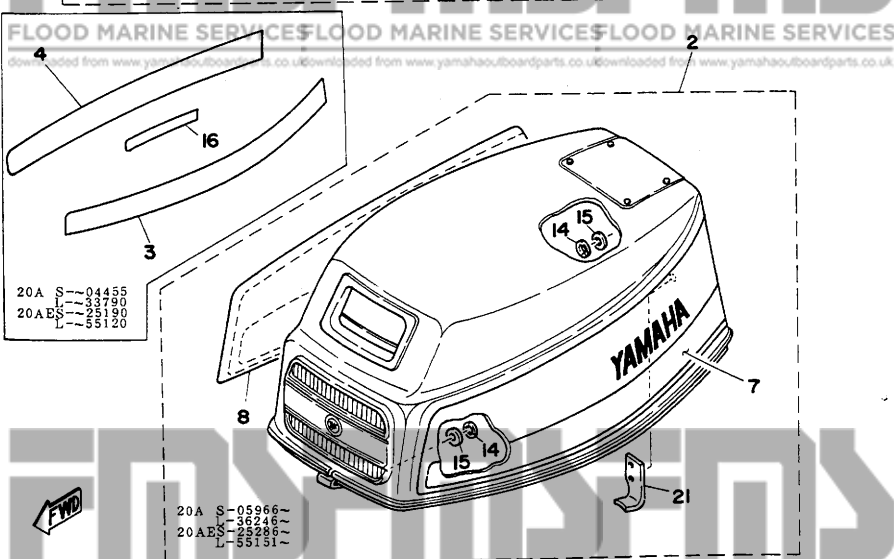
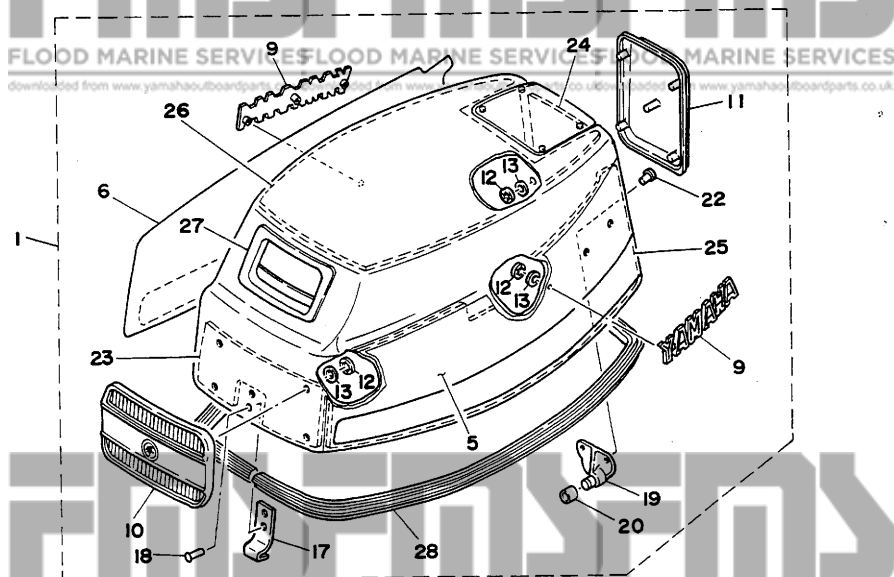
Fig. 19 MANUAL STARTER



MANUAL STARTER

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
19-28	95303-08600	NUT, hexagon	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~	
19-29	92903-08200	WASHER, plate	1	1		
19-30	90116-08224	BOLT, stud	1	1		
19-31	656-15777-00	HOLDER, plunger	1	1	20AS ~ 05510 L ~ 35350 20AES ~ 25190 L ~ 55120	
19-32	656-15748-00	PLUNGER, starter stop	1	1		
19-33	90501-10227	SPRING, compression	1	1		
19-34	656-15770-00	WIRE COMP., starter stop	1	1		
19-35	90123-06049	BOLT, wire adjusting	1	1		
19-36	95303-06600	NUT, hexagon	2	2	20AS-02416 ~ L-31591 ~ 20AES-25101 ~ L-55101 ~	
19-37	656-15749-00	LINK COMP., starter stop	1	1		
19-38	92903-05600	WASHER, plate	1	1		
19-39	90206-05005	WASHER, wave	1	1		
19-40	91490-16010	PIN, cotter	1	1		
19-41	92903-06600	WASHER, plate	1	1		
19-42	90206-08010	WASHER, wave	1	1		
19-43	656-15774-00	STAY 4	1	1		
19-44	97323-06012	BOLT, hexagon	1	1		
19-45	92903-06100	WASHER, spring	1	1		
19-46	90109-06258	BOLT, hexagon	1	1		
19-47	*97323-06020	BOLT, hexagon	1	1	20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55226 ~	
19-48	*90387-06568	COLLAR	1	1		
19-49	647-15780-01	EMERGENCY STARTER ASS'Y	1	1		

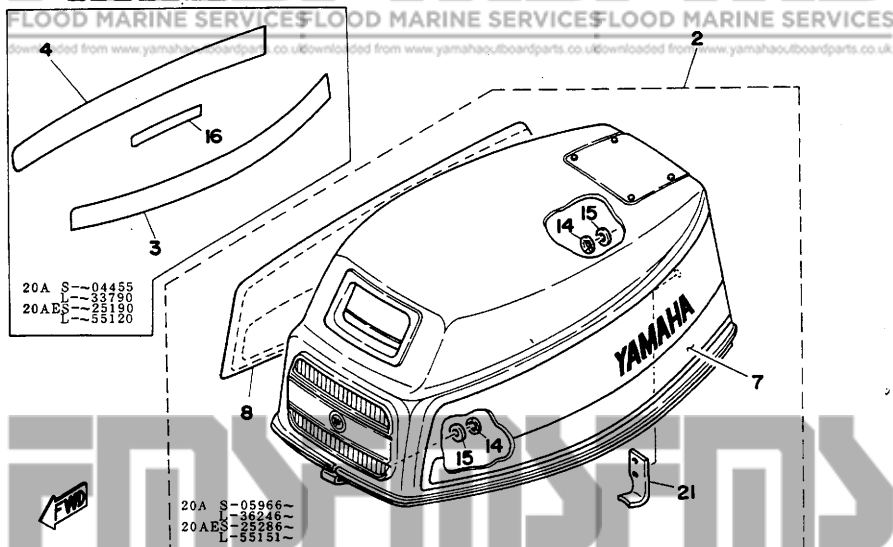
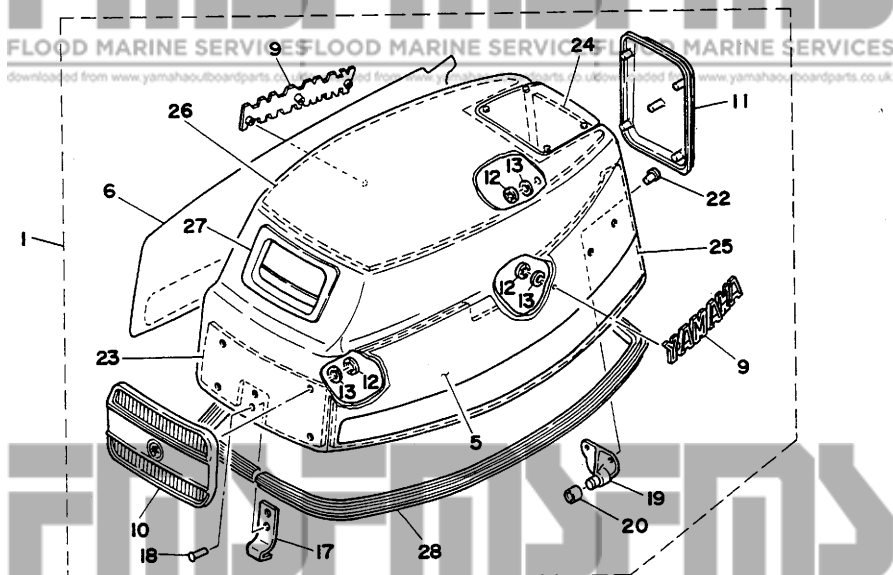
Fig. 20 TOP COWLING



TOP COWLING

Ref. No.	Parts No.	Description	Q'ty		Applicable Machine No.	Remarks
			20A	20AE		
20- 1	657-42610-61-F6 TOP COWLING ASS'Y	.....	1	1	20AS~05965 L~36245 20AES~25285 L~55150	Metallic Ocean Blue
20- 2	657-42610-62-F6 TOP COWLING ASS'Y	.....	1	1	20AS~05966~07615 L~36246~37210 20AES~25286~25195 L~55151~55225	Metallic Ocean Blue
	* 657-42610-80-F6 TOP COWLING ASS'Y	.....	1	1	20AS~08281~ L~37266~ 28AES~25326~ L~55226~	Metallic Ocean Blue
20- 3	648-42675-01 . GRAPHIC, side 1	.....	1		20AS~01105 L~30335	
	648-42675-02 . GRAPHIC, side 1	.....	1	1	20AS~01106~04455 L~30356~37990 20AES~25190 L~55120	
20- 4	648-42676-01 . GRAPHIC, side 2	.....	1		20AS~01105 L~30355	
	648-42676-02 . GRAPHIC, side 2	.....	1	1	20AS~01106~04455 L~30356~37990 20AES~25190 L~55120	
20- 5	656-42675-00 . GRAPHIC, side 1	.....	1	1	20AS~04456~05965 L~37991~36245 20AES~25191~25285 L~55121~55150	
20- 6	656-42676-00 . GRAPHIC, side 2	.....	1	1	20AS~05966~07615 L~36246~37210 20AES~25286~25195 L~55151~55225	
20- 7	656-42675-01 . GRAPHIC, side 1	.....	1	1	20AS~08281~ L~37266~ 20AES~25326~ L~55226~	
	* 656-42675-02 . GRAPHIC, side 1	.....	1	1	20AS~05966~07615 L~36246~37210 20AES~25286~25195 L~55151~55225	
20- 8	656-42676-01 . GRAPHIC, side 2	.....	1	1	20AS~08281~ L~37266~ 20AES~25326~ L~55226~	
	* 656-42676-02 . GRAPHIC, side 2	.....	1	1	20AS~05965 L~36245 20AES~25285 L~55150	
20- 9	650-42681-00 . MARK, cowling 1	.....	2	2		
20-10	648-42686-00 . EMBLEM, front	.....	1	1		
20-11	653-42687-00 . EMBLEM, rear	.....	1	1		
20-12	90183-05003 . NUT, spring (650-42691-00)	... 16	16		20AS~05965 L~36245 20AES~25285 L~55150	
20-13	650-42693-00 . DAMPER, emblem	 16	16			
20-14	90183-05003 . NUT, spring (650-42691-00)	.. 10	10		20AS~05966~ L~36246~ 20AES~25286~ L~55151~	
20-15	650-42693-00 . DAMPER, emblem	 10	10			
20-16	648-44191-02 . INDICATOR, shift	.....	1	1	20AS~04455 L~37990 20AES~25190 L~55120	
20-17	648-42651-00 . HOOK 1	.....	1	1		
20-18	90266-04002 . RIVET (612-42642-00)	.....	2	2		
20-19	648-42647-00 . HOLDER, clamp band	.....	1	1	20AS~05965 L~36245 20AES~25285 L~55150	
20-20	626-42658-00 . BUSHING	.....	1	1	20AS~05966~ L~36246~ 20AES~25286~ L~55151~	
20-21	656-42647-00 . HOLDER, clamp band	.....	1	1	20AS~05965 L~36245 20AES~25285 L~55150	
20-22	90266-04012 . RIVET	.....	2	2		
20-23	656-42662-00 . DAMPER 1	.....	1	1		
20-24	656-42663-00 . DAMPER 2	.....	1	1		

Fig. 20 TOP COWLING

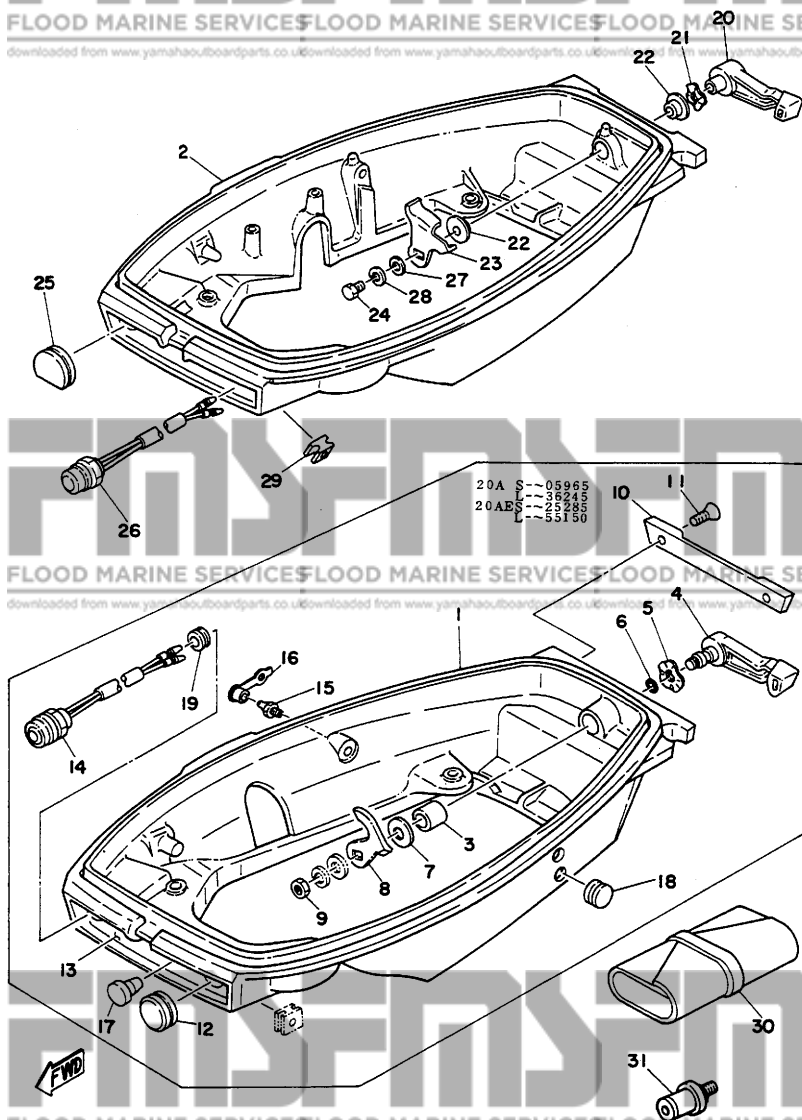


TOP COWLING

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
20-25	656-42664-00	. DAMPER 3	2	2	
20-26	656-42665-00	. DAMPER 4	1	1	
20-27	648-15761-00	. SEAL, rubber	1	1	
20-28	648-42615-00	. SEAL	1	1	

Fig. 21 BOTTOM COWLING

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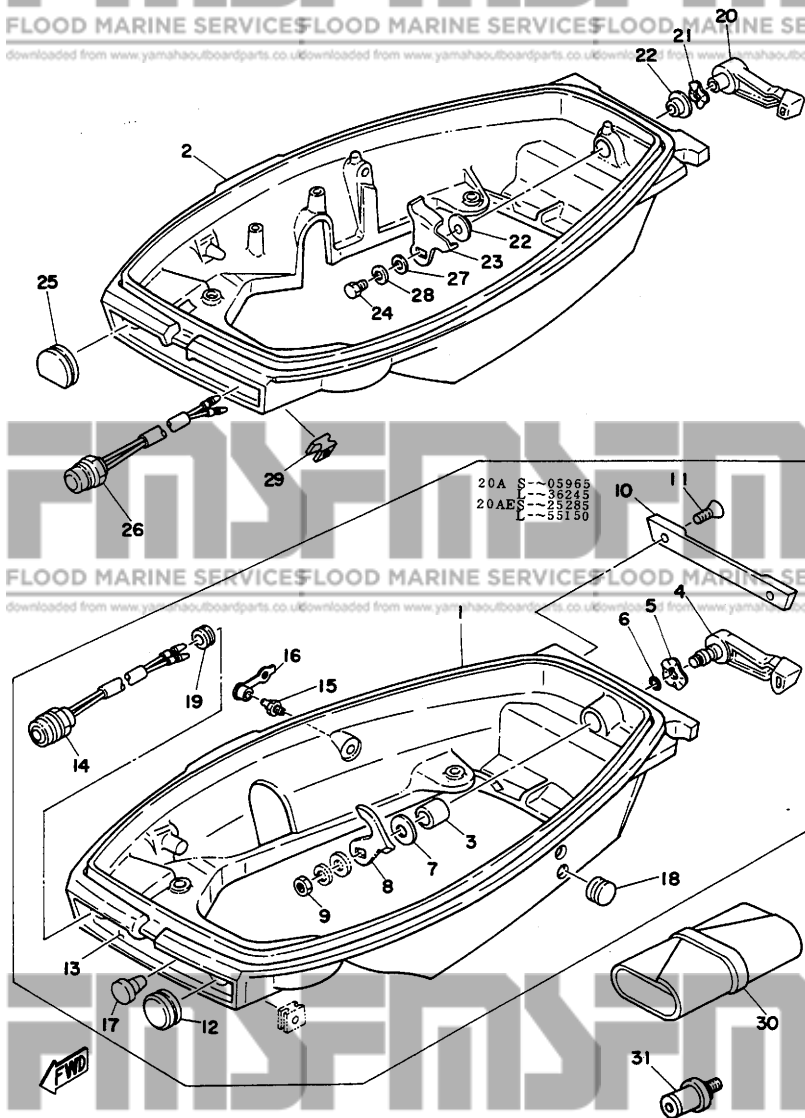
BOTTOM COWLING

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
21- 1	656-42710-00-F6	BOTTOM COWLING COMP.	1 1	20AS: ~05965 L ~36245 20AES: ~25285 L ~55150	Metallic Ocean Blue
21- 2	664-42711-00-F6	COWLING, bottom	1 1	20AS: ~05966 L ~36246 20AES: ~25286 L ~55151	Metallic Ocean Blue
21- 3	90380-13013	BUSHING, solid (626-42831-00) ...	1 1		
21- 4	648-42815-00-F6	LEVER, clamp 1	1 1		Metallic Ocean Blue
21- 5	90206-13019	WASHER, wave (626-42832-00) ...	1 1		
21- 6	93210-10107	O-RING (1.9-9.8)	1 1		
21- 7	90202-13034	WASHER, plain (626-42833-00) ...	1 1		
21- 8	648-42816-00	LEVER, clamp 2	1 1		
21- 9	95303-06700	NUT, hexagon	1 1		
21-10	648-42761-00	STOPPER 1	1 1	20AS: ~05965 L ~36245 20AES: ~25285 L ~55150	
21-11	92280-06012	SCREW, flathead	2 2		
21-12	90480-22041	GROMMET (648-42724-00)	1		
21-13	648-42791-01	MARK 1	1 1		
21-14	648-82550-01	STOP SWITCH ASS'Y	1		
21-15	93700-06004	NIPPLE, grease	1 1		
21-16	626-45119-00	CAP, grease nipple	1 1		
21-17	90480-14022	GROMMET (648-42727-00)	1		
21-18	90480-19030	GROMMET (612-42724-00)	4 4		
21-19	90480-29045	GROMMET (648-42551-00)	1 1	20AS: ~04455 L ~33790 20AES: ~25190 L ~55120	
	90480-10009	GROMMET (700-48176-10)	1 1	20AS: ~04456 ~05965 L ~33791 ~36245 20AES: ~25191 ~25285 L ~55121 ~55150	
21-20	664-42815-00-F6	LEVER, clamp 1	1 1		Metallic Ocean Blue
21-21	90206-12052	WASHER, wave	1 1		
21-22	90386-12069	BUSHING	2 2		
21-23	656-42816-00	LEVER, clamp 2	1 1	20AS: ~05966 ~ L ~36246 ~ 20AES: ~25286 ~ L ~55151 ~	
21-24	97323-06010	BOLT, hexagon	1 1		
21-25	664-42724-00	GROMMET 1	1		
21-26	664-82550-00	STOP SWITCH ASS'Y	1		
21-27	90201-06068	WASHER, plate (620-24576-00) ...	1 1		
21-28	92990-06100	WASHER, spring	1 1		

Fig. 21 BOTTOM COWLING

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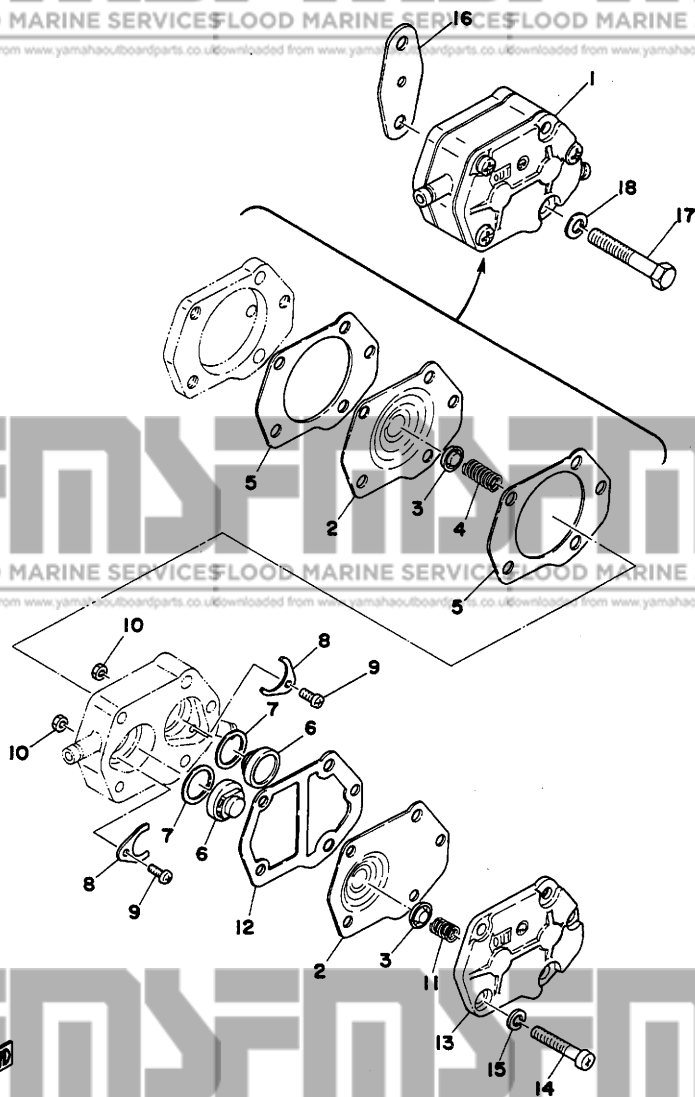
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BOTTOM COWLING

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
21-29	90480-12156	GROMMET 3	1	1	
21-30	656-28100-60	TOOL ASS'Y	1	1	
21-31	626-2819J-01-94	PLUG, water check 1	1	1	

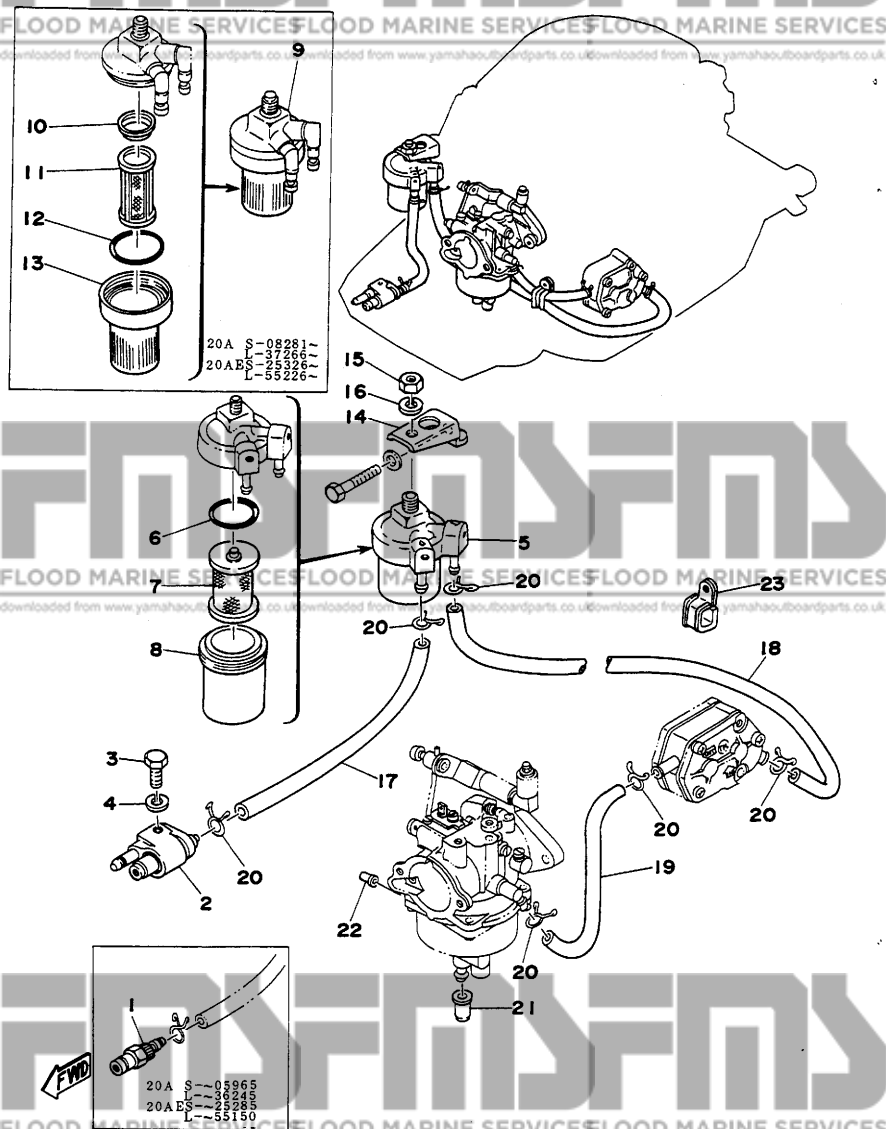
Fig. 22 FUEL PUMP



FUEL PUMP

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AB		
22- 1	663-24410-00	FUEL PUMP ASS'Y	1	1	
22- 2	648-24411-00	. DIAPHRAGM, pump	2	2	
22- 3	648-24424-00	. PLATE, spring guide	2	2	
22- 4	648-24423-00	. SPRING, pump diaphragm	1	1	
22- 5	648-24434-00	. GASKET, body 1	2	2	
22- 6	648-24421-00	. VALVE SUB-ASS'Y	2	2	
22- 7	648-24431-00	. GASKET	2	2	
22- 8	648-24422-01	. PLATE	2	2	
22- 9	98503-03008	. SCREW, panhead	2	2	
22-10	95301-03600	. NUT, hexagon	2	2	
22-11	648-24454-00	. SPRING	1	1	
22-12	648-24435-02	. GASKET, body 2	1	1	
22-13	648-24413-01	. COVER, pump	1	1	
22-14	98503-05030	. SCREW, panhead	3	3	
22-15	92990-05100	. WASHER, spring	3	3	
★ 22-16	650-24431-00	GASKET, fuel pump	1	1	
22-17	97323-06040	BOLT, hexagon	2	2	
22-18	92903-06100	WASHER, spring	2	2	

Fig. 23 PIPING

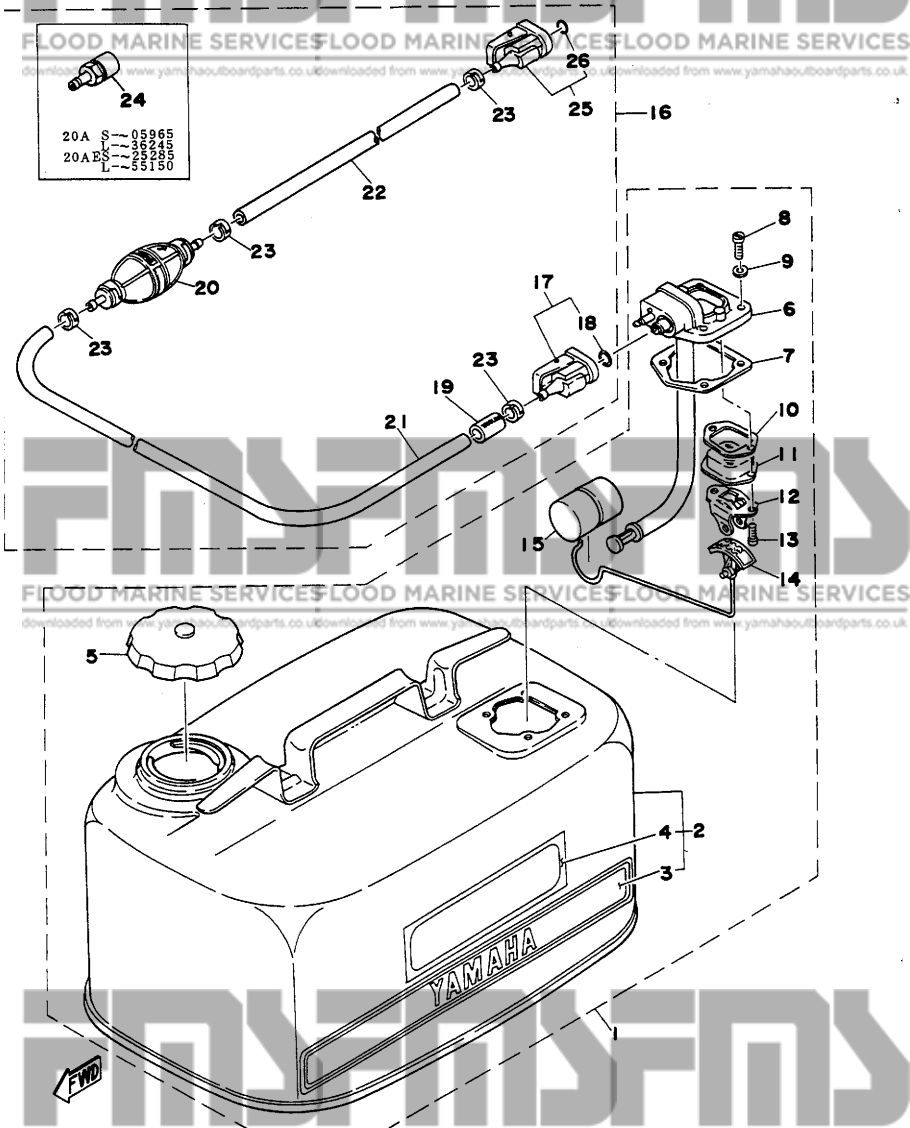


PIPING

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
23-1	644-24304-50	FUEL PIPE JOINT COMP. 1	1	1	20AS ~05965 L ~36245 20AES ~25285 L ~35150
23-2	655-24304-01	FUEL PIPE JOINT COMP. 1	1	1	
23-3	97323-06018	BOLT, hexagon	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~
23-4	92990-06100	WASHER, spring	1	1	
23-5	648-24560-03	FILTER ASS'Y	1	1	
★23-6	648-24564-02	. PACKING, filter 1	1	1	20AS ~07615 L ~37210 20AES ~25325 L ~35225
23-7	648-24563-01	. ELEMENT, filter	1	1	
23-8	648-24521-03	. CUP, filter	1	1	
23-9	* 655-24560-00	. FILTER ASS'Y	1	1	
★23-10	* 655-24564-00	. PACKING, filter	1	1	
23-11	* 655-24563-00	. ELEMENT, filter	1	1	20AS-08281 ~ L-37266 ~ 20AES-25326 ~ L-55226 ~
★23-12	* 93210-35339	. O-RING (2.0-34.5)	1	1	
23-13	* 655-24521-00	. CUP, filter	1	1	
23-14	648-24566-01	BRACKET, filter	1	1	
23-15	95303-08600	NUT, hexagon	1	1	
23-16	92903-08100	WASHER, spring	1	1	
23-17	90445-10141	HOSE (648-24311-00 6-10-320)	1	1	20AS ~05965 L ~36245 20AES ~25285 L ~35150
	90445-09082	HOSE (647-24313-00 5-9-150)	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151 ~
23-18	90445-10140	HOSE (648-24313-00 6-10-280)	1	1	20AS ~04570 L ~34630 20AES ~25190 L ~35120
	656-24311-00	PIPE, fuel 1	1	1	20AS-04571 ~ L-34431 ~ 20AES-25191 ~ L-55121 ~
23-19	648-24312-01	PIPE 2 (6-10-150)	1	1	
23-20	90467-09007	CLIP	6	6	20AS ~04455 L ~33790 20AES ~25190 L ~35120
	90467-08004	CLIP (616-24356-00)	6	6	20AS-04456 ~ L-33791 ~ 20AES-25191 ~ L-55121 ~
23-21	648-14382-60	CAP, drain pipe	1	1	
23-22	647-14395-60	CAP, over flow pipe	1	1	
23-23	90461-06015	CLAMP	1	1	



Fig. 24 FUEL TANK



FUEL TANK

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
24- 1	663-24202-80-24	FUEL TANK ASS'Y	1	1	Light Vermilion
24- 2	663-24201-80-24	FUEL TANK COMP.	1	1	Light Vermilion
24- 3	663-24244-00	. . GRAPHIC, side	2	2	
24- 4	663-24245-00	. . GRAPHIC	1	1	
24- 5	802-24610-00	. CAP ASS'Y	1	1	
24- 6	663-24275-00	. FUEL METER COMP.	1	1	
24- 7	663-24268-00	. GASKET, housing fuel meter	1	1	
24- 8	98580-05015	. SCREW, panhead	4	4	
24- 9	630-24329-00	. SEAL	4	4	
24-10	630-24269-01	. GASKET, support indicator	1	1	
24-11	630-24263-01	. LENS, indicator	1	1	
24-12	630-24262-01	. SUPPORT, indicator	1	1	
24-13	98503-05010	. SCREW, panhead	2	2	
24-14	663-24241-00	. INDICATOR	1	1	
24-15	663-24264-00	. FLOAT	1	1	
24-16	656-24310-80	FUEL PIPE ASS'Y	1	1	20AS ~ 05965 L ~ 36245
	663-24310-60	FUEL PIPE ASS'Y	1	1	20AES ~ 25285 L ~ 55150
24-17	655-24305-00	. FUEL PIPE JOINT COMP. 2	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151
24-18	93210-08287	. . O-RING (3.0-8.0)	1	1	
24-19	663-24397-00	. COLLAR	1	1	
24-20	650-24360-01	. PRIMARY PUMP ASS'Y	1	1	
24-21	90445-12207	. HOSE (6-2400)	1	1	
24-22	90445-12155	. HOSE (650-24313-00 6-1000)	1	1	
24-23	650-24351-00	. BAND, fuel pipe	4	4	
24-24	644-24305-50	. FUEL PIPE JOINT COMP. 2	1	1	20AS ~ 05965 L ~ 36245
24-25	655-24305-00	. FUEL PIPE JOINT COMP. 2	1	1	20AES ~ 25285 L ~ 55150
24-26	93210-08287	. . O-RING (3.0-8.0)	1	1	20AS-05966 ~ L-36246 ~ 20AES-25286 ~ L-55151



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OPTIONAL PARTS



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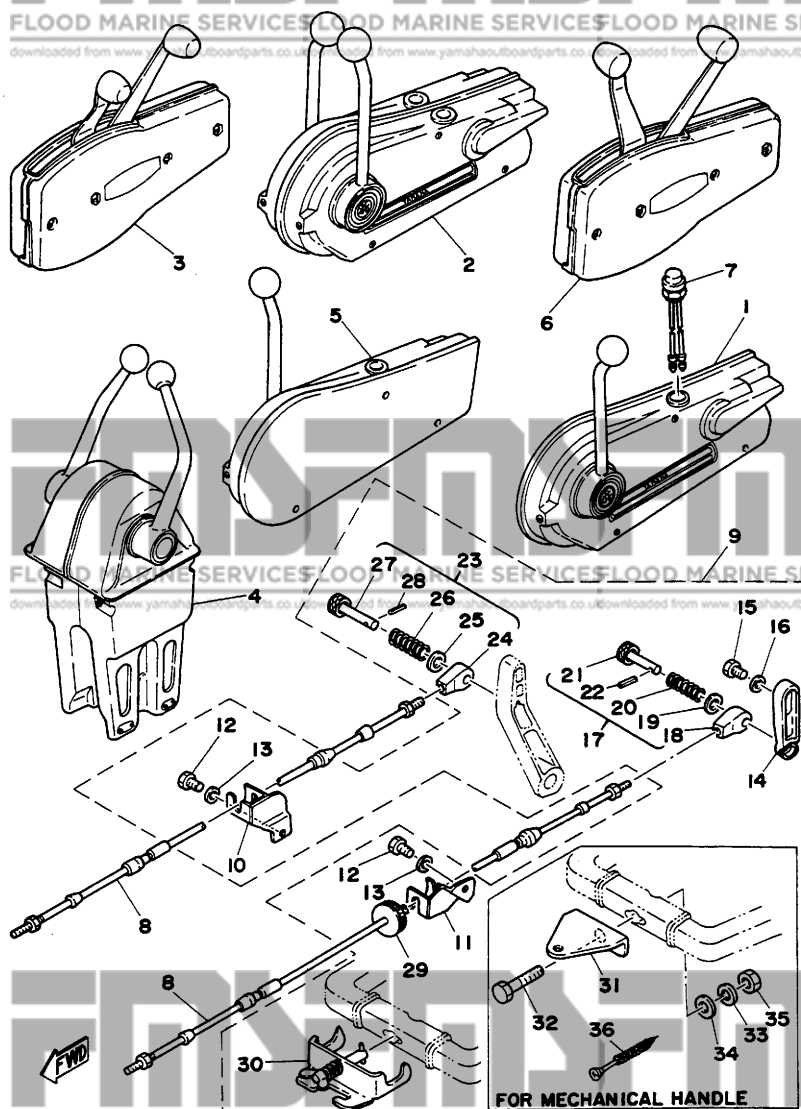
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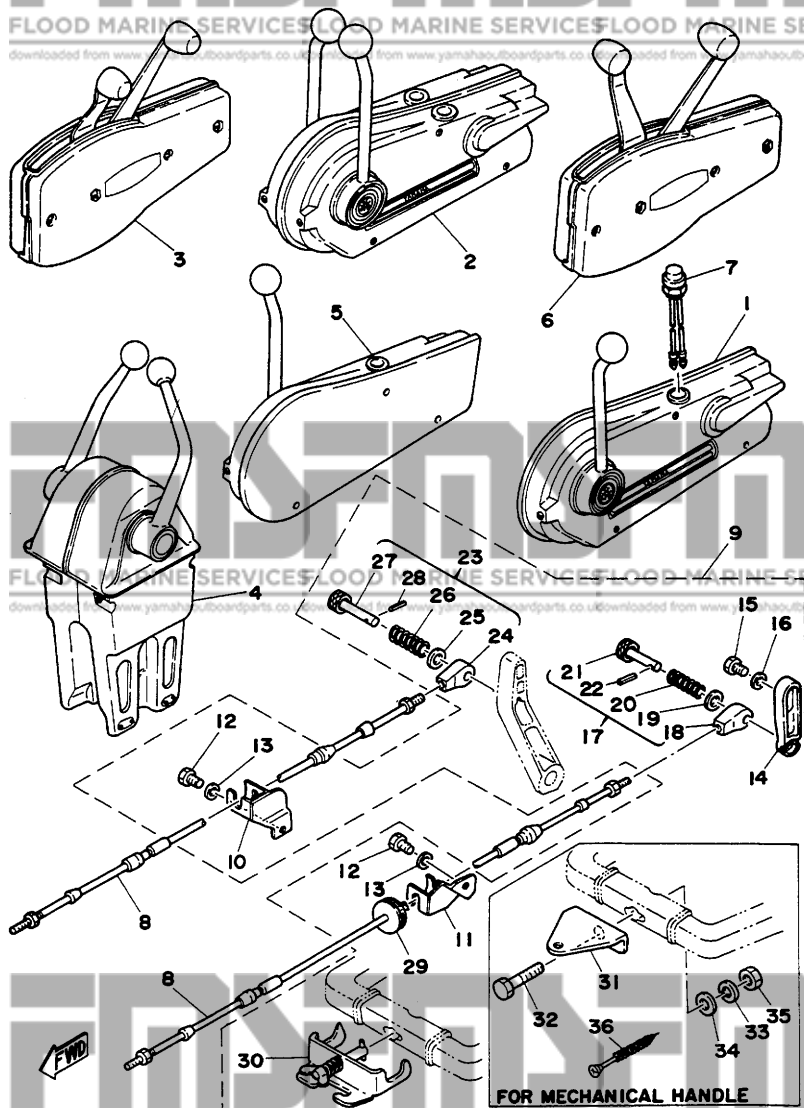
Fig. 25 REMOTE CONTROL



REMOTE CONTROL

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
			20A 20AE		
25- 1	701-48110-10	REMOTE CONTROL ASS'Y 1	1	1	Single
25- 2	701-48110-20	REMOTE CONTROL ASS'Y 2	1	1	Twin
25- 3	701-48110-30	REMOTE CONTROL ASS'Y 3	1	1	Double
25- 4	701-48110-80	REMOTE CONTROL ASS'Y 8	1	1	M.T. Twin
25- 5	701-48120-10	REMOTE CONTROL ASS'Y 1	1	1	Single
25- 6	701-48120-30	REMOTE CONTROL ASS'Y 3	1	1	Double
25- 7	701-82550-50	STOP SWITCH ASS'Y	1	1	
25- 8	701-48310-10	CABLE, remote control 6F	2	2	6 feet
	701-48310-20	CABLE, remote control 7F	2	2	7 feet
	701-48310-40	CABLE, remote control 8F	2	2	8 feet
	701-48310-60	CABLE, remote control 9F	2	2	9 feet
	701-48310-90	CABLE, remote control 11F	2	2	11 feet
	701-48320-00	CABLE, remote control 12F	2	2	12 feet
	701-48320-20	CABLE, remote control 13F	2	2	13 feet
	701-48320-30	CABLE, remote control 14F	2	2	14 feet
	701-48320-50	CABLE, remote control 15F	2	2	15 feet
	701-48320-60	CABLE, remote control 16F	2	2	16 feet
	701-48320-80	CABLE, remote control 17F	2	2	17 feet
	701-48320-90	CABLE, remote control 18F	2	2	18 feet
25- 9	656-48501-00	REMOTE CONTROL ATTACHMENT ASS'Y	1	1	
	656-48501-10	REMOTE CONTROL ATTACHMENT ASS'Y	1	1	For Mechanical handle
25-10	648-48531-50	. BRACKET, remote control 1	1	1	
25-11	648-48532-50	. BRACKET, remote control 2	1	1	
25-12	97370-06015	. BOLT, hexagon	2	2	
25-13	92990-06600	. WASHER, plate	2	2	
25-14	648-48534-50-F6	. THROTTLE LEVER, control	1	1	Metallic Ocean Blue
25-15	97370-06012	. BOLT, hexagon	1	1	
25-16	92990-06600	. WASHER, plate	1	1	

Fig. 25 REMOTE CONTROL



REMOTE CONTROL

Ref. No.	Parts No.	Description	Q'ty	Applicable Machine No.	Remarks
25-17	617-48340-90	. CABLE END ASS'Y	1	1	Throttle
25-18	617-48346-90	. . CABLE END, remote control	1	1	
25-19	92990-08200	. . WASHER, plain	1	1	
25-20	90501-10264	. . SPRING, cable hook (617-48332-90)	1	1	
25-21	617-48361-90	. . HOOK, cable 2	1	1	
25-22	91690-30012	. . PIN, spring	1	1	
25-23	648-48330-50	. CABLE END ASS'Y	1	1	Gear shift
25-24	648-48346-50	. . CABLE END, remote control 3	1	1	
25-25	92990-08200	. . WASHER, plain	1	1	
25-26	90501-10071	. . SPRING, cable hook (604-48332-00)	1	1	
25-27	617-48331-90	. . HOOK, cable 1	1	1	
25-28	91690-30012	. . PIN, spring	1	1	
25-29	90480-22039	. GROMMET (648-48565-50)	1	1	
25-30	700-48510-11	. STEERING HOOK ASS'Y	1	1	

FOR MECHANICAL HANDLE

25-31	648-48511-00	. HOOK, steering	1	1	
25-32	97370-10040	. BOLT, hexagon	1	1	
25-33	92990-10100	. WASHER, spring	1	1	
25-34	92990-10600	. WASHER, plate	1	1	
25-35	95380-10600	. NUT, hexagon	1	1	
25-36	95480-51075	. SCREW, ovalhead wood	2	2	



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