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**4AC(6E0)**  
**4AS(6E1)**

|         |                               |    |
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This Parts Catalogue is related to the parts in use for the Yamaha outboard motor 4A '88 (6E0). When you are ordering replacement parts for the 4A '88 (6E0), refer to this Parts Catalogue and quote both part numbers and part names correctly.

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

## 2. Abbreviations

The following abbreviations are used in this Parts Catalogue.

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

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

### EXAMPLE

CARBURETOR ASS'Y  
. JET, pilot  
. NOZZLE, main

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

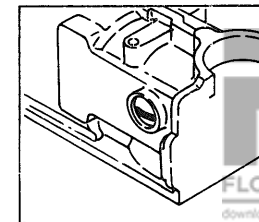
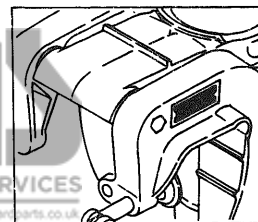
The numeral appearing to the right of each constituent part under the description indicates the quantity of such parts for each individual assembly unit.

### EXAMPLE

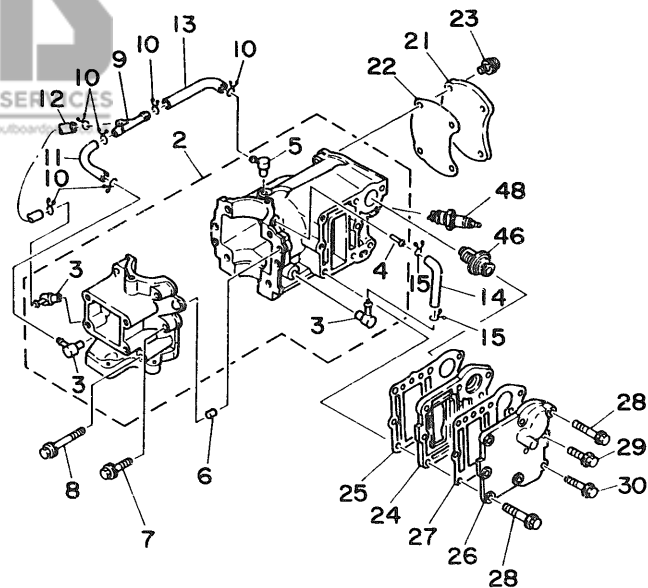
| Part No.        | Description          | Q'ty | Remarks |
|-----------------|----------------------|------|---------|
| 6E0-85500-70    | C.D.I. MAGNETO ASS'Y | 1    |         |
| 6E0-85550-70    | . ROTOR ASS'Y        | 1    |         |
| 6E0-15723-00-94 | . . PULLEY, starter  | 1    |         |

5. Initial Serial No. and Color Code

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| Engine Serial No. | 4AC S:094340 and following<br>L:332986 and following<br>4AS S:225538 and following<br>L:510205 and following |
|-------------------|--------------------------------------------------------------------------------------------------------------|

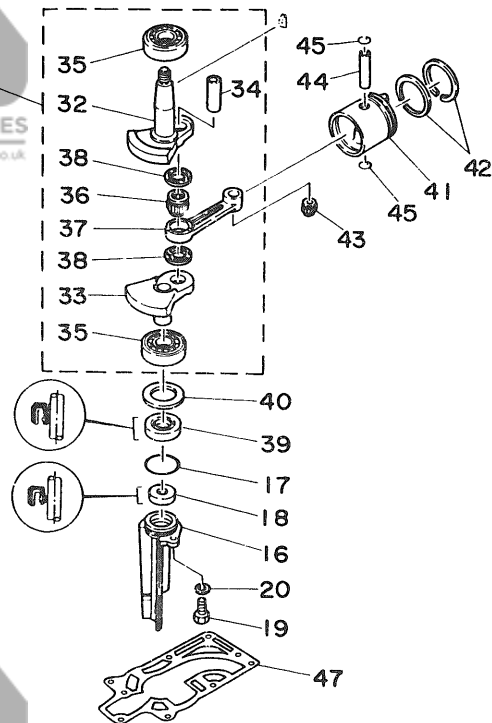


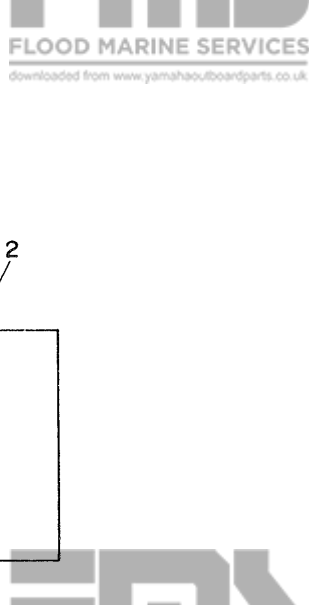
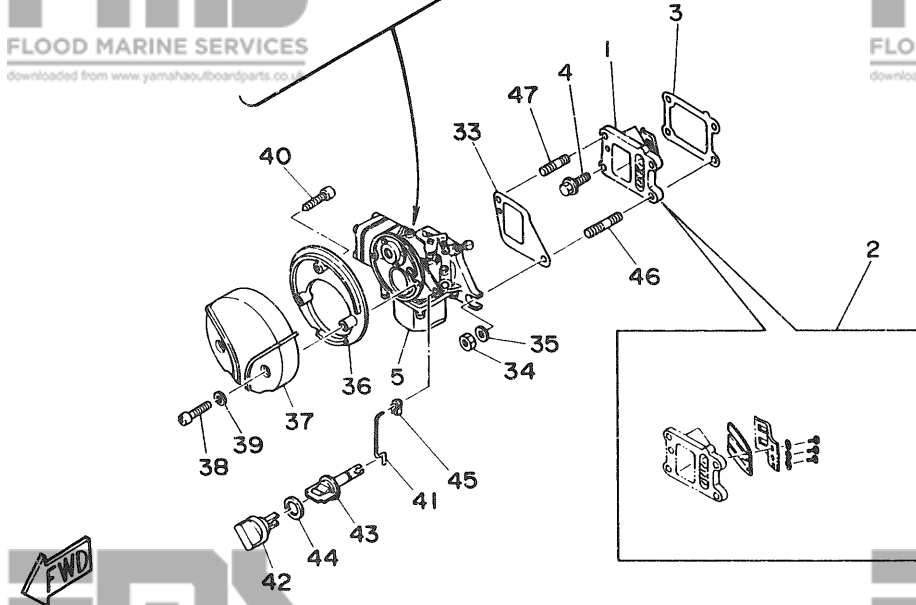
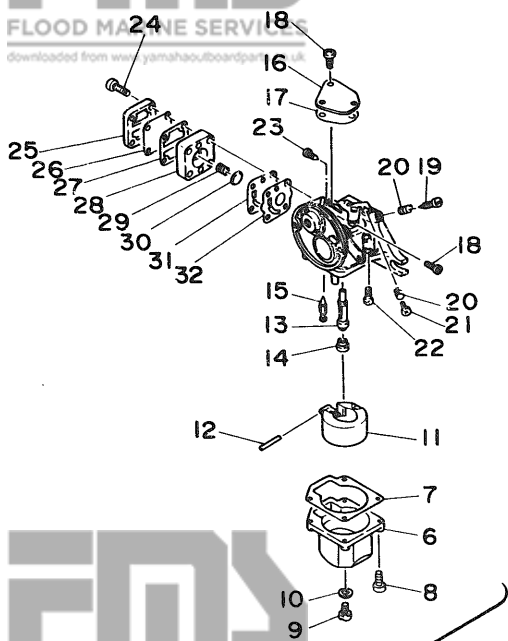
| Color Code | Color Name           | Abbreviate |
|------------|----------------------|------------|
| EJ         | METALLIC MARINE BLUE | MMB        |



**Fig. 1 CYLINDER. CRANKCASE**

| Ref.No. | Parts No.       | Description                              | Q'ty | Ref.No. | Parts No.       | Description                 | Q'ty |
|---------|-----------------|------------------------------------------|------|---------|-----------------|-----------------------------|------|
| 1       | 6E0-W0090-03-EJ | CRANK CYLINDER ASSY<br>(Ref.No. 2 to 47) | 1    | 25      | 6E0-41112-01    | GASKET, exhaust inner cover | 1    |
| 2       | 6E0-15100-01-94 | CRANKCASE ASSY                           | 1    | 26      | 6E0-41113-01-9M | OUTER COVER, exhaust        | 1    |
| 3       | 650-11370-00    | .CHECK VALVE ASSY                        | 3    | 27      | 6E0-41114-01    | GASKET, exhaust outer cover | 1    |
| 4       | 624-14485-00    | .PIPE, joint                             | 1    | 28      | 90105-06M24     | BOLT, washer based          | 7    |
| 5       | 6E5-11372-00    | .NIPPLE, hose                            | 1    | 29      | 90105-06M16     | BOLT, washer based          | 1    |
| 6       | 93604-08062     | PIN, dowel                               | 2    | 30      | 90105-06M14     | BOLT, washer based          | 1    |
| 7       | 90105-06M16     | BOLT, washer based                       | 4    | 31      | 6E0-11400-00    | CRANKSHAFT ASSY             | 1    |
| 8       | 90105-06M17     | BOLT, washer based                       | 2    | 32      | 6E0-11412-00    | .CRANK 1                    | 1    |
| 9       | 6E0-24378-00    | PIPE, joint 4                            | 1    | 33      | 6E0-11422-00    | .CRANK 2                    | 1    |
| 10      | 90467-06016     | CLIP                                     | 6    | 34      | 6G1-11681-00    | .PIN, crank 1               | 1    |
| 11      | 90445-07M00     | HOSE                                     | 1    | 35      | 93306-204U0     | .BEARING                    | 2    |
| 12      | 90445-07M28     | HOSE                                     | 1    | 36      | 93310-418V1     | .BEARING, cylindrical       | 1    |
| 13      | 90445-07M51     | HOSE                                     | 1    | 37      | 6E0-11651-01    | .ROD, connecting            | 1    |
| 14      | 90445-07M28     | HOSE                                     | 1    | 38      | 90209-18112     | .WASHER                     | 2    |
| 15      | 90467-06016     | CLIP                                     | 2    | 39      | 93101-20M29     | OIL SEAL                    | 1    |
| 16      | 6E0-15396-02-9M | HOUSING, oil seal                        | 1    | 40      | 90201-32M48     | WASHER, plate               | 1    |
| 17      | 93210-31114     | O-RING                                   | 1    | 41      | 6E0-11631-00-98 | PISTON (STD)                | 1    |
| 18      | 93101-10M25     | OIL SEAL                                 | 1    | 42      | 6G1-11610-00    | PISTON RING SET (STD)       | 1    |
| 19      | 97395-06016     | BOLT                                     | 1    | 43      | 93310-112V0     | BEARING, cylindrical        | 1    |
| 20      | 92990-06600     | WASHER, plate                            | 1    | 44      | 6G1-11633-00    | PIN, piston                 | 1    |
| 21      | 6E0-11191-01-9M | COVER, cylinder head 1                   | 1    | 45      | 93450-13022     | CIRCLIP                     | 2    |
| 22      | 6E0-11193-01    | GASKET, head cover 1                     | 1    | 46      | 6E5-12411-00    | THERMOSTAT                  | 1    |
| 23      | 90105-06M14     | BOLT, washer based                       | 4    | 47      | 6E0-45113-00    | GASKET, upper casing        | 1    |
| 24      | 6E0-41111-01-9M | INNER COVER, exhaust                     | 1    | 48      | 94702-00272     | PLUG, spark (NGK BR7HS)     | 1    |





**Fig. 2 INTAKE**

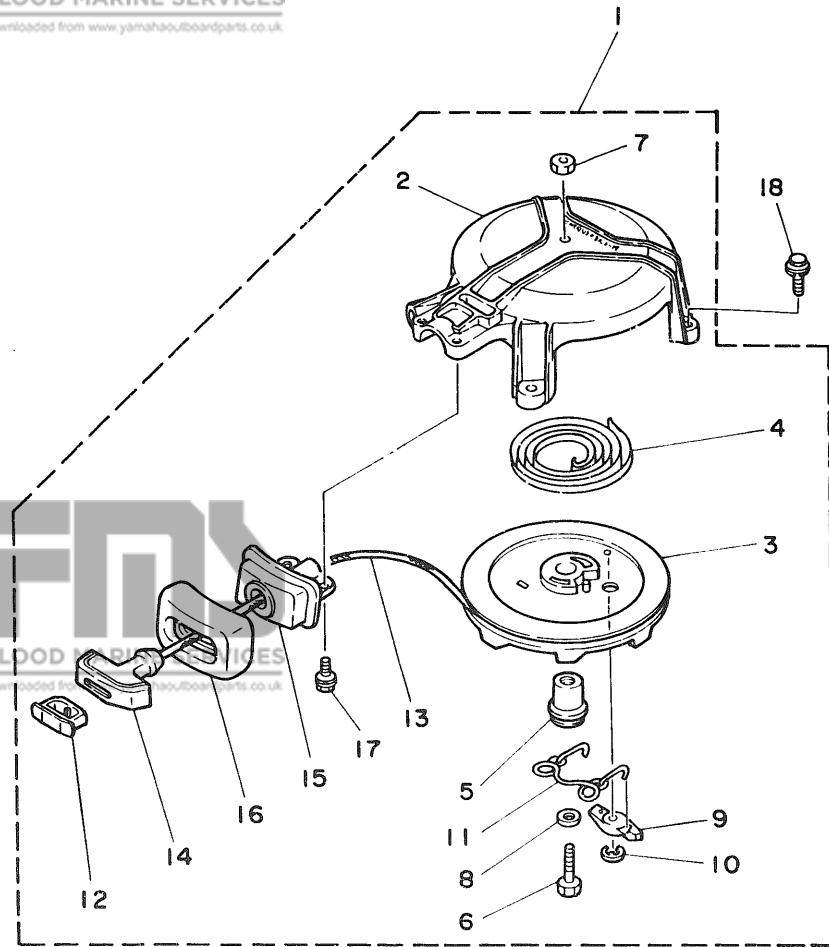
| Ref.No. | Parts No.    | Description              | Q'ty | Ref.No. | Parts No.    | Description        | Q'ty |
|---------|--------------|--------------------------|------|---------|--------------|--------------------|------|
| 1       | 6E0-13610-00 | REED VALVE ASSY          | 1    | 25      | 6E0-24413-00 | .COVER             | 1    |
| 2       | 6E0-W0004-00 | .REED SET                | 1    | 26      | 6E0-24471-00 | .DIAPHRAGM         | 1    |
| 3       | 6E0-13621-00 | GASKET, valve seat       | 1    | 27      | 6E0-24435-00 | .GASKET, body 2    | 1    |
| 4       | 90105-06M14  | BOLT, washer based       | 2    | 28      | 6E0-24412-00 | .BODY 1            | 1    |
| 5       | 6E0-14301-02 | CARBURETOR ASSY 1        | 1    | 29      | 6E0-24423-00 | .SPRING, diaphragm | 1    |
| 6       | 6E0-14381-01 | .BODY, float chamber     | 1    | 30      | 6E0-14346-00 | .PLATE             | 1    |
| 7       | 6E0-14384-00 | .GASKET, float chamber   | 1    | 31      | 6E0-24411-00 | .DIAPHRAGM         | 1    |
| 8       | 98580-04016  | .SCREW, pan head         | 4    | 32      | 6E0-24434-00 | .GASKET, body      | 1    |
| 9       | 677-14383-00 | .SCREW, drain            | 1    | 33      | 6E0-14198-00 | GASKET             | 1    |
| 10      | 6A1-14398-00 | .GASKET                  | 1    | 34      | 95303-06700  | NUT                | 2    |
| 11      | 6E7-14385-00 | .FLOAT                   | 1    | 35      | 92990-05600  | WASHER, plate      | 2    |
| 12      | 647-14386-00 | .PIN, float              | 1    | 36      | 6E0-14417-00 | COVER 1            | 1    |
| 13      | 6E0-14341-01 | .NOZZLE, main            | 1    | 37      | 6E0-14418-00 | COVER 2            | 1    |
| 14      | 648-14343-40 | .JET, main (# 80)        | 1    | 38      | 98503-05025  | SCREW, pan head    | 2    |
| 15      | 6G8-14392-00 | .VALVE, needle           | 1    | 39      | 92990-05600  | WASHER, plate      | 2    |
| 16      | 6E0-14157-00 | .COVER, plate            | 1    | 40      | 97780-40720  | SCREW, tapping     | 1    |
| 17      | 6E0-14227-00 | .GASKET                  | 1    | 41      | 6E0-41256-00 | ROD, choke 1       | 1    |
| 18      | 98580-04008  | .SCREW, pan head         | 4    | 42      | 6E0-41271-00 | KNOB, choke        | 1    |
| 19      | 647-14323-00 | .SCREW, air adjusting    | 1    | 43      | 6E0-41272-00 | KNOB, choke        | 1    |
| 20      | 646-14212-01 | .SPRING, pilot adjusting | 2    | 44      | 90202-12M16  | WASHER, plate      | 1    |
| 21      | 648-14321-00 | .SCREW, throttle         | 1    | 45      | 661-41262-02 | JOINT, choke lever | 1    |
| 22      | 648-14342-23 | .JET, pilot (# 46)       | 1    | 46      | 95621-06325  | BOLT, stud         | 1    |
| 23      | 647-14326-00 | .SCREW, guide            | 1    | 47      | 90116-06M08  | BOLT, stud         | 1    |
| 24      | 98580-04020  | .SCREW, pan head         | 4    |         |              |                    |      |

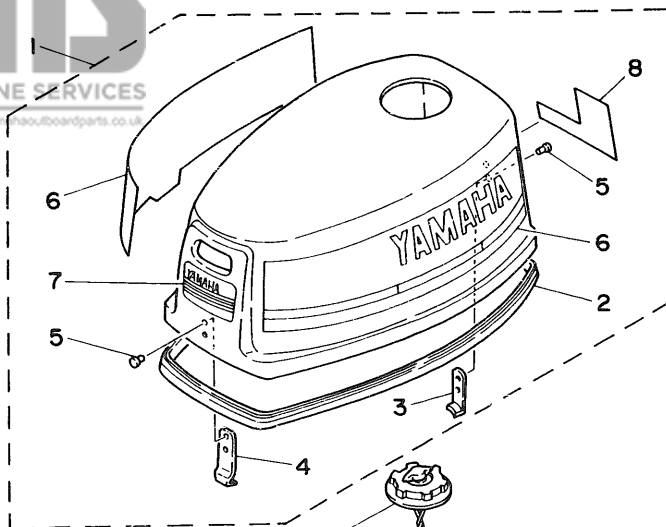


**Fig. 3 STARTER**

| Ref.No. | Parts No.       | Description     | Q'ty | Ref.No. | Parts No.    | Description         | Q'ty |
|---------|-----------------|-----------------|------|---------|--------------|---------------------|------|
| 1       | 6E0-15710-03-94 | STARTER ASSY    | 1    | 10      | 93430-06M02  | .CIRCLIP            | 1    |
| 2       | 6E4-15711-71-94 | .CASE, starter  | 1    | 11      | 6E0-15705-00 | .SPRING, drive pawl | 1    |
| 3       | 6E0-15714-01    | .DRUM, sheave   | 1    | 12      | 6G1-15779-00 | .COVER              | 1    |
| 4       | 90510-08M03     | .SPRING, spiral | 1    | 13      | *            | .WIRE (L1850)       | 1    |
| 5       | 6E0-15717-00    | .SHAFT, starter | 1    | 14      | 6G1-15755-00 | .HANDLE, starter    | 1    |
| 6       | 97013-06035     | .BOLT           | 1    | 15      | 6E0-15758-01 | .GUIDE, rope        | 1    |
| 7       | 95303-06600     | .NUT            | 1    | 16      | 6E0-15761-00 | .SEAL, rubber 1     | 1    |
| 8       | 90201-06M30     | .WASHER, plate  | 1    | 17      | 90105-06M14  | .BOLT, washer based | 2    |
| 9       | 677-15741-01    | .PAWL, drive    | 1    | 18      | 90105-06M15  | BOLT, washer based  | 3    |

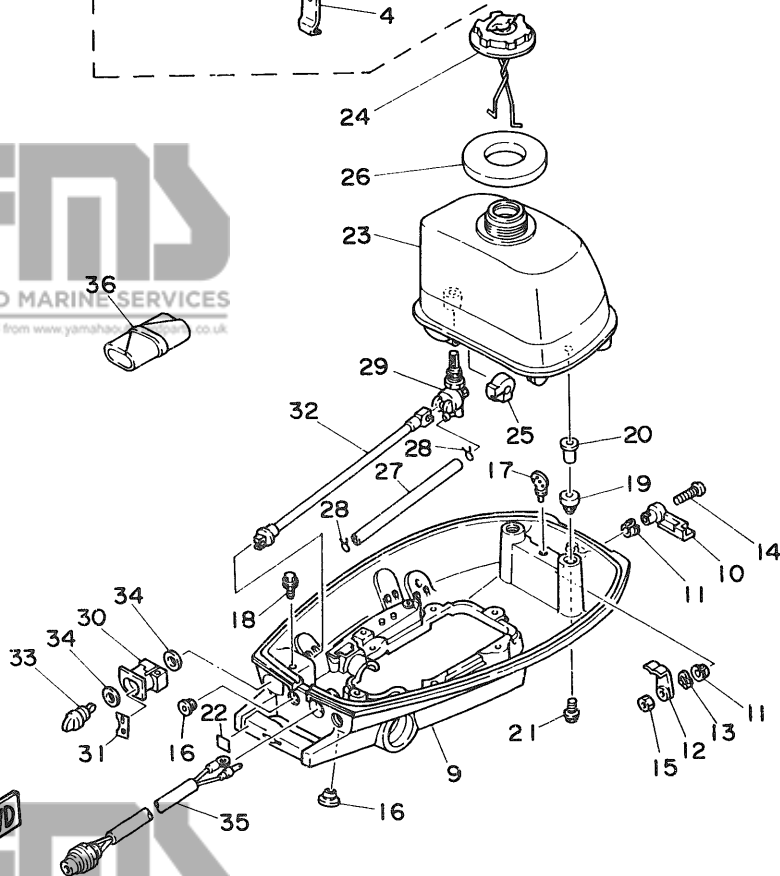
\* Cut from 50m rolls, Parts No. 90890-44372, cutting length 1.85m.

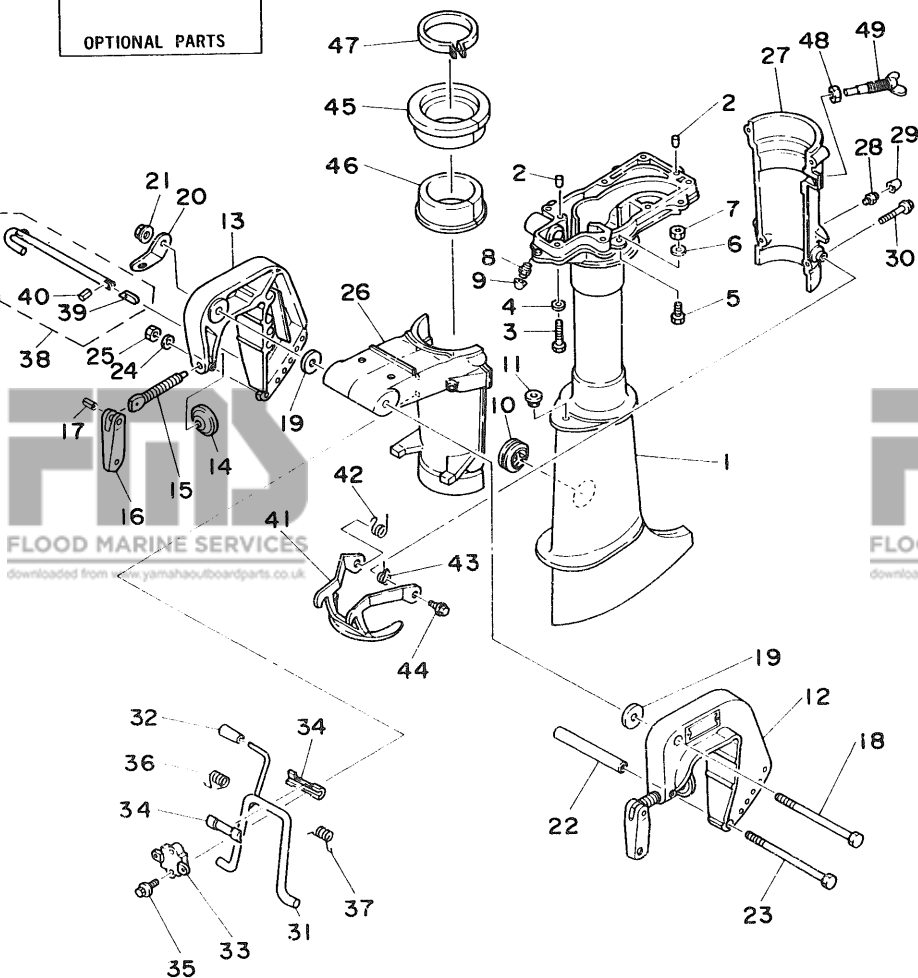
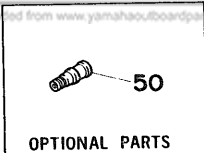




**Fig. 4 COWLING. FUEL**

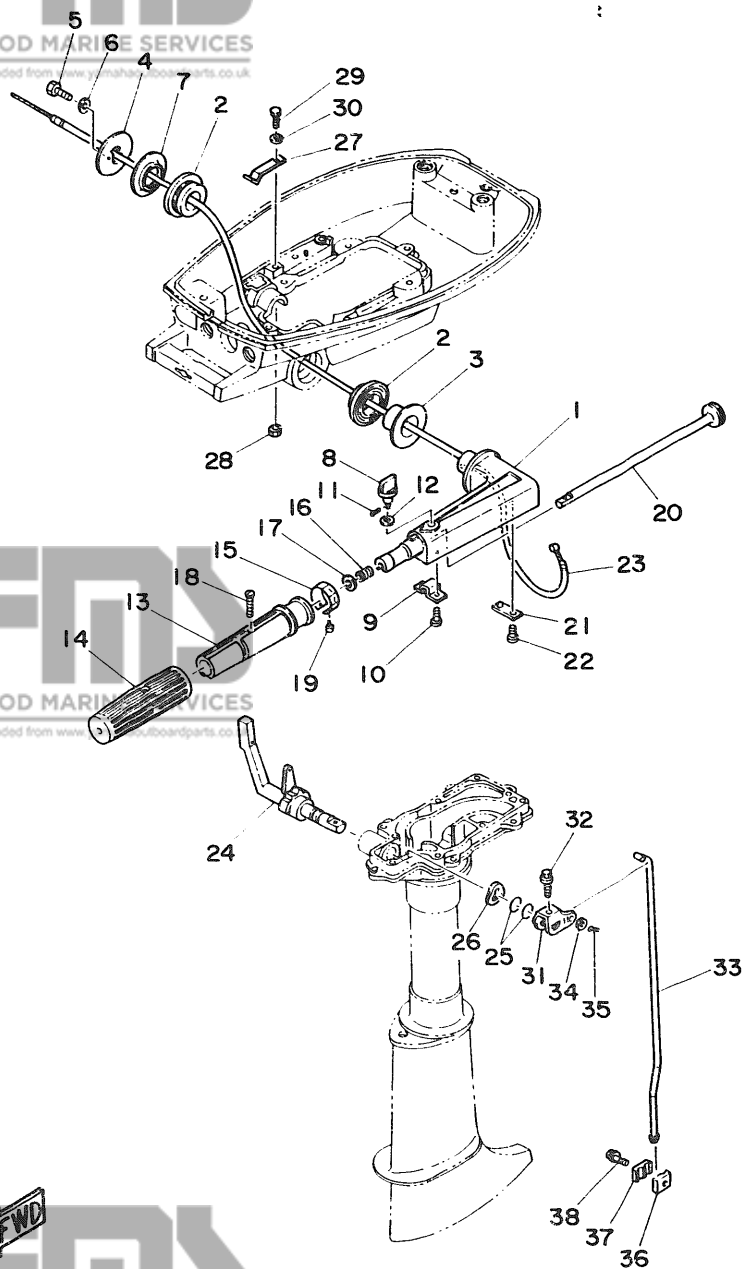
| Ref.No. | Parts No.       | Description         | Q'ty | Ref.No. | Parts No.       | Description        | Q'ty |
|---------|-----------------|---------------------|------|---------|-----------------|--------------------|------|
| 1       | 6E0-42610-24-EJ | TOP COWLING ASSY    | 1    | 19      | 6E0-24182-00    | DAMPER, locating 2 | 2    |
| 2       | 6E0-42615-00    | .SEAL               | 1    | 20      | 6E0-42542-00    | PIPE               | 2    |
| 3       | 6E0-42647-01    | .HOLDER, clamp band | 1    | 21      | 95895-06025     | BOLT, flange       | 2    |
| 4       | 6E0-42651-01    | .HOOK               | 1    | 22      | 6A1-42792-01    | MARK               | 1    |
| 5       | 90266-04M00     | .RIVET              | 4    | 23      | 6E0-24110-00-EJ | FUEL TANK COMP.    | 1    |
| 6       | 6E0-W0070-22    | .GRAPHIC SET        | 1    | 24      | 6E0-24610-02    | CAP ASSY           | 1    |
| 7       | 6E0-42677-01    | .GRAPHIC, front     | 1    | 25      | 6E0-24181-00    | DAMPER, locating 1 | 2    |
| 8       | 6E0-42678-20    | .GRAPHIC, rear      | 1    | 26      | 6E0-24641-00    | GASKET, cap 1      | 1    |
| 9       | 6E0-42711-03-EJ | COWLING, bottom     | 1    | 27      | 90445-09M37     | HOSE               | 1    |
| 10      | 6E0-42815-00-EJ | LEVER, clamp        | 1    | 28      | 90467-08004     | CLIP               | 2    |
| 11      | 90386-12069     | BUSH                | 2    | 29      | 6E0-24500-00    | FUEL COCK ASSY 1   | 1    |
| 12      | 6E0-42816-00    | LEVER, clamp        | 1    | 30      | 6E0-24571-00    | BUSHING            | 1    |
| 13      | 90206-12052     | WASHER, wave        | 1    | 31      | 6E0-24591-00    | GRAPHIC            | 1    |
| 14      | 97895-06030     | SCREW, pan head     | 1    | 32      | 6E0-24572-00    | SHAFT, fuel change | 1    |
| 15      | 95303-06700     | NUT                 | 1    | 33      | 6E0-24575-01    | LEVER, fuel change | 1    |
| 16      | 90480-14M14     | GROMMET             | 2    | 34      | 90202-12M17     | WASHER, plate      | 2    |
| 17      | 606-42591-00    | HOLDER, shear pin   | 1    | 35      | 6E0-82550-00    | STOP SWITCH ASSY   | 1    |
| 18      | 90105-06M15     | BOLT, washer based  | 1    | 36      | 6E0-28100-01    | TOOL KIT           | 1    |





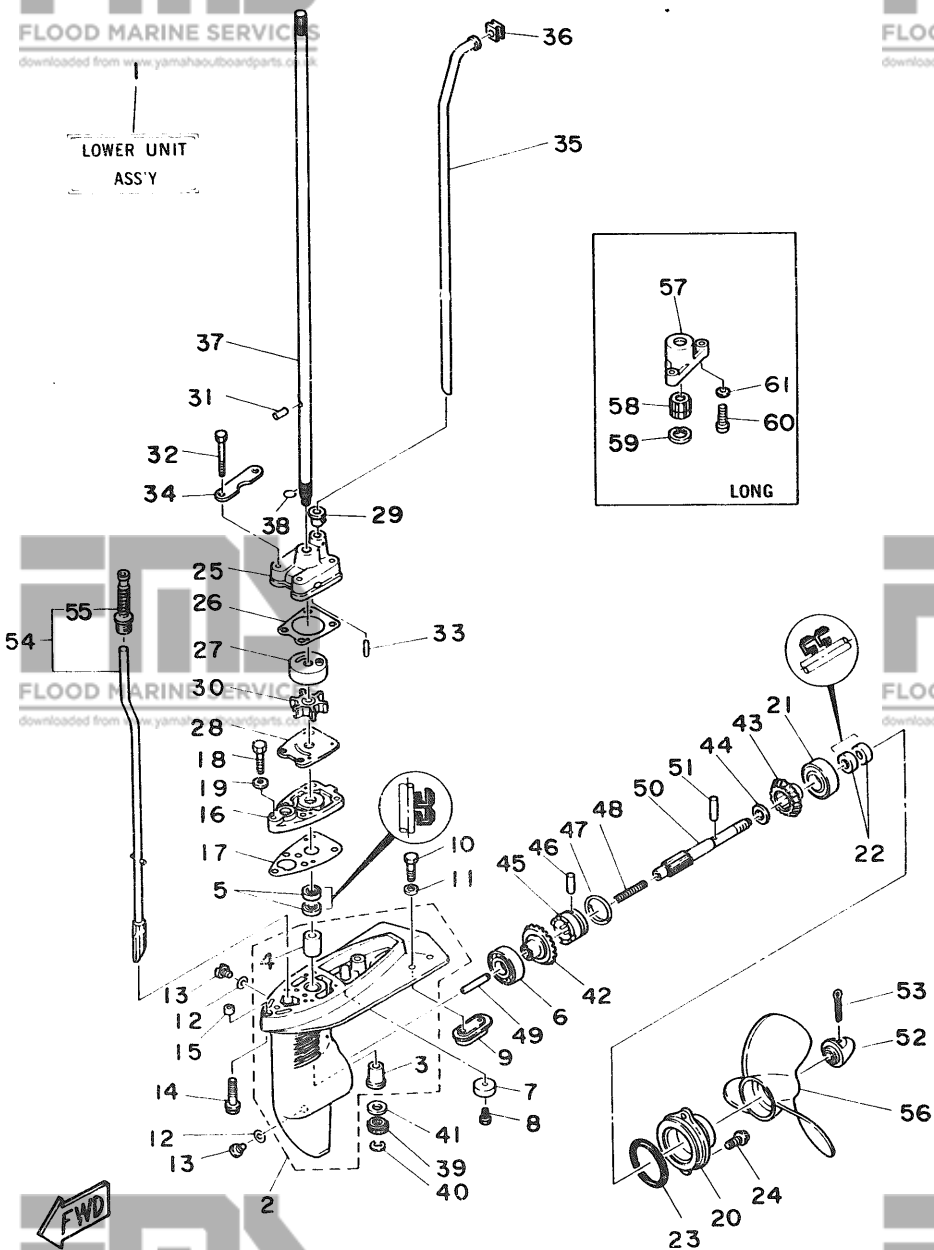
**Fig. 5 UPPER CASING. BRACKET**

| Ref.No. | Parts No.       | Description           | Q'ty | Ref.No. | Parts No.       | Description           | Q'ty |
|---------|-----------------|-----------------------|------|---------|-----------------|-----------------------|------|
| 1       | 6E0-45111-02-EJ | CASING, upper (Short) | 1 UR | 27      | 6E0-43312-02-EJ | BRACKET, swivel       | 1    |
| 2       | 6E0-45111-12-EJ | CASING, upper (Long)  | 1 UR | 28      | 93700-06004     | NIPPLE, grease        | 1    |
| 3       | 93606-12019     | PIN, dowel            | 2    | 29      | 663-45119-00    | CAP, grease nipple    | 1    |
| 4       | 92990-06600     | WASHER, plate         | 7    | 30      | 95895-06035     | BOLT, flange          | 4    |
| 5       | 97395-06016     | BOLT                  | 7    | 31      | 6E0-43181-00    | LEVER, tilt stop      | 1    |
| 6       | 92990-06600     | WASHER, plate         | 4    | 32      | 6E0-43632-00    | KNOB, tilt            | 1    |
| 7       | 95380-06700     | NUT                   | 4    | 33      | 6E0-43313-00-94 | BRACKET, swivel       | 1    |
| 8       | 93700-06004     | NIPPLE, grease        | 4    | 34      | 620-43189-00    | BUSHING               | 2    |
| 9       | 663-45119-00    | CAP, grease nipple    | 1    | 35      | 95895-06020     | BOLT, flange          | 2    |
| 10      | 647-45151-01    | COVER, upper casing   | 1    | 36      | 90508-16020     | SPRING, torsion       | 1    |
| 11      | 90480-10M13     | GROMMET               | 1    | 37      | 90508-16021     | SPRING, torsion       | 1    |
| 12      | 6E0-43111-01-EJ | BRACKET, clamp        | 1    | 38      | 6E0-43160-01    | TILT ROD ASSY         | 1    |
| 13      | 6E0-43112-01-EJ | BRACKET, clamp        | 1    | 39      | 656-43165-01    | PLATE, tilt lock      | 1    |
| 14      | 648-43114-01    | PAD, transom clamp    | 1    | 40      | 91690-30008     | PIN, spring           | 1    |
| 15      | 6E0-43116-00    | SCREW, transom clamp  | 2    | 41      | 6E0-43614-00-9M | PLATE, tilt lock      | 1    |
| 16      | 6E0-43118-00    | HANDLE, transom clamp | 2    | 42      | 90508-14M10     | SPRING, torsion       | 1    |
| 17      | 90254-04M00     | PIN, spring           | 2    | 43      | 90508-14M11     | SPRING, torsion       | 1    |
| 18      | 90101-08M07     | BOLT                  | 2    | 44      | 95895-06010     | BOLT, flange          | 2    |
| 19      | 90201-08M00     | WASHER, plate         | 1    | 45      | 6E0-42537-01    | BUSHING, pivot shaft  | 1    |
| 20      | 6A1-43113-00    | PLATE, clamp bracket  | 2    | 46      | 6E0-42538-01    | BUSHING, pivot shaft  | 1    |
| 21      | 90185-08057     | NUT, self-locking     | 1    | 47      | 6E0-42528-03    | PLATE, friction       | 1    |
| 22      | 90387-06M11     | COLLAR                | 1    | 48      | 95380-08600     | NUT                   | 1    |
| 23      | 90101-06335     | BOLT                  | 1    | 49      | 6E0-42529-02    | SCREW, friction piece | 1    |
| 24      | 92990-06600     | WASHER, plate         | 1    | 50      | 6E0-28193-00-94 | PLUG, water check     | 1 AP |
| 25      | 95380-06600     | NUT                   | 1    |         |                 |                       |      |
| 26      | 6E0-43311-03-EJ | BRACKET, swivel       | 1    |         |                 |                       |      |



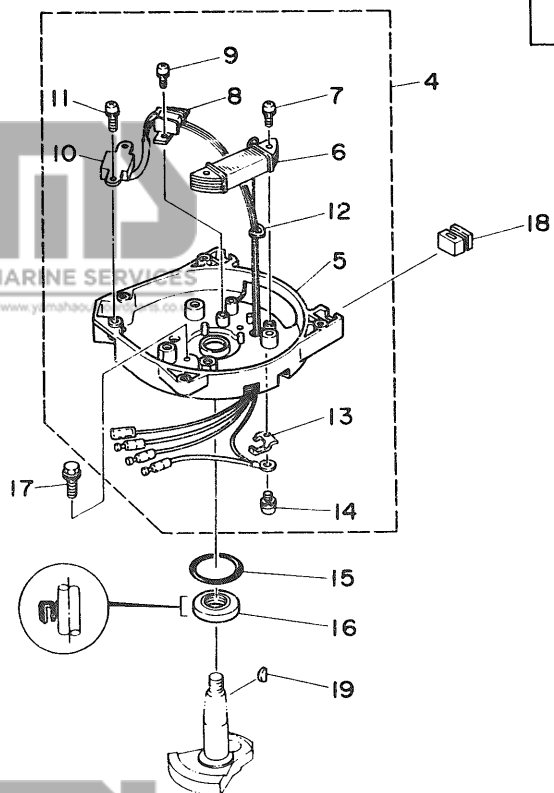
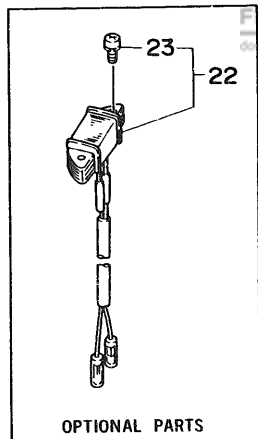
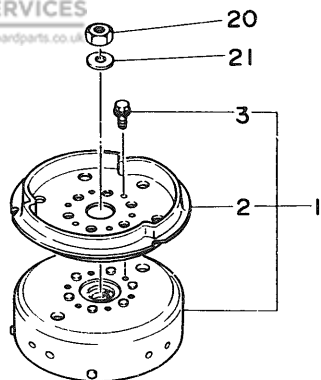
**Fig. 6 CONTROL**

| Ref.No. | Parts No.       | Description              | Q'ty | Ref.No. | Parts No.    | Description          | Q'ty |
|---------|-----------------|--------------------------|------|---------|--------------|----------------------|------|
| 1       | 6E0-42111-01-EJ | HANDLE, steering         | 1    | 21      | 6E0-42159-01 | STAY                 | 1    |
| 2       | 6E0-42129-02    | BUSHING, rubber          | 2    | 22      | 98580-05012  | SCREW, pan head      | 2    |
| 3       | 90386-26M30     | BUSH                     | 1    | 23      | 6E0-26301-01 | THROTTLE CABLE ASSY  | 1    |
| 4       | 6E0-42131-02-94 | COVER, handle steering   | 1    | 24      | 6E0-44111-01 | HANDLE, gear shift   | 1    |
| 5       | 97313-05020     | BOLT                     | 2    | 25      | 93210-12327  | O-RING               | 2    |
| 6       | 92990-05600     | WASHER, plate            | 2    | 26      | 90206-16M06  | WASHER, wave         | 1    |
| 7       | 90386-26M33     | BUSH                     | 1    | 27      | 6E0-44116-00 | SPRING               | 1    |
| 8       | 6E0-42125-00    | BOLT, friction adjusting | 1    | 28      | 95380-06700  | NUT                  | 1    |
| 9       | 6E0-42134-01    | COVER, throttle lever    | 1    | 29      | 97395-06012  | BOLT                 | 1    |
| 10      | 98580-05012     | SCREW, pan head          | 2    | 30      | 92990-06600  | WASHER, plate        | 1    |
| 11      | 91490-12010     | PIN, cotter              | 1    | 31      | 6E0-44121-00 | LEVER, shift rod     | 1    |
| 12      | 90202-07M22     | WASHER, plate            | 1    | 32      | 95895-06025  | BOLT, flange         | 1    |
| 13      | 6E0-42119-00    | GRIP, steering handle    | 1    | 33      | 6E0-44143-00 | ROD, shift (Short)   | 1 UR |
| 14      | 6E0-42177-00    | RUBBER, handle           | 1    |         | 6E0-44143-10 | ROD, shift (Long)    | 1 UR |
| 15      | 6E0-42137-10    | INDICATOR, throttle      | 1    | 34      | 92990-05600  | WASHER, plate        | 1    |
| 16      | 90501-23215     | SPRING, compression      | 1    | 35      | 91490-16010  | PIN, cotter          | 1    |
| 17      | 90201-10119     | WASHER, plate            | 1    | 36      | 6E0-44145-00 | CONNECTOR, shift rod | 1    |
| 18      | 90149-05M06     | SCREW                    | 1    | 37      | 6E0-44146-00 | CONNECTOR, shift rod | 1    |
| 19      | 90269-02001     | RIVET                    | 1    | 38      | 95895-06020  | BOLT, flange         | 1    |
| 20      | 6E0-42138-01    | LEVER, throttle          | 1    |         |              |                      |      |



**Fig. 7 LOWER CASING. DRIVE 1**

| Ref.No. | Parts No.       | Description                                                         | Q'ty | Ref.No. | Parts No.       | Description                   | Q'ty |
|---------|-----------------|---------------------------------------------------------------------|------|---------|-----------------|-------------------------------|------|
| 1       | 6E0-45300-01-EJ | LOWER UNIT ASSY (Short)<br>(Ref.No. 2 to 13, 16 to 34 and 54 to 55) | 1 UR | 34      | 6E0-44328-00    | PLATE                         | 2    |
| 2       | 6E0-45300-11-EJ | LOWER UNIT ASSY (Long)<br>(Ref.No. 2 to 13, 16 to 34 and 54 to 55)  | 1 UR | 35      | 6E0-44361-00    | TUBE, water (Short)           | 1 UR |
| 3       | 6E0-45317-09    | .BUSHING, drive shaft                                               | 1    | 36      | 6E0-44361-10    | TUBE, water (Long)            | 1 UR |
| 4       | 6E0-45316-09    | .BUSHING, drive shaft                                               | 1    | 37      | 6E0-44365-00    | DAMPER, water seal            | 1    |
| 5       | 93101-10M14     | OIL SEAL                                                            | 2    | 38      | 6E0-45511-00    | SHAFT, drive (Short)          | 1 UR |
| 6       | 93306-004U0     | BEARING                                                             | 1    | 39      | 6E0-45511-10    | SHAFT, drive (Long)           | 1 UR |
| 7       | 6E0-45251-00    | ANODE                                                               | 1    | 40      | 90467-08M01     | CLIP                          | 1    |
| 8       | 97395-06012     | BOLT                                                                | 1    | 41      | 6E0-45551-00    | PINION                        | 1    |
| 9       | 6E0-45251-10    | ANODE                                                               | 1    | 42      | 99001-06600     | CIRCLIP                       | 1    |
| 10      | 97395-06016     | BOLT                                                                | 2    | 43      | 90201-11M49     | WASHER, plate                 | 1    |
| 11      | 92990-06600     | WASHER, plate                                                       | 2    | 44      | 6E0-45560-00    | GEAR                          | 1    |
| 12      | 90430-08020     | GASKET                                                              | 3    | 45      | 6E0-45570-00    | GEAR                          | 1    |
| 13      | 90340-08M04     | PLUG, straight screw                                                | 3    | 46      | 90201-13M50     | WASHER, plate                 | 1    |
| 14      | 90119-06M40     | BOLT, with washer                                                   | 2    | 47      | 6E0-45631-00    | CLUTCH, dog                   | 1    |
| 15      | 90387-06M14     | COLLAR                                                              | 2    | 48      | 90250-05046     | PIN, straight                 | 1    |
| 16      | 6E0-45321-01-9M | PLATE                                                               | 1    | 49      | 654-45633-00    | RING, cross pin               | 1    |
| 17      | 6E0-45315-00    | PACKING, lower casing                                               | 1    | 50      | 90501-10064     | SPRING, compression           | 1    |
| 18      | 97395-06025     | BOLT                                                                | 1    | 51      | 654-45635-00    | PLUNGER, shift                | 1    |
| 19      | 92990-06600     | WASHER, plate                                                       | 1    | 52      | 6E0-45611-00    | SHAFT, propeller              | 1    |
| 20      | 6E0-45361-00-EJ | CAP, lower casing                                                   | 1    | 53      | 6E0-45615-00    | PIN, share                    | 1    |
| 21      | 93306-004U0     | BEARING                                                             | 1    | 54      | 647-45616-02    | NUT, propeller                | 1    |
| 22      | 93101-13M12     | OIL SEAL                                                            | 2    | 55      | 91490-30030     | PIN, cotter                   | 1    |
| 23      | 93210-48214     | O-RING                                                              | 1    | 56      | 6E0-44150-00    | SHIFT CAM ASSY (Short)        | 1 UR |
| 24      | 95895-06016     | BOLT, flange                                                        | 2    | 57      | 6E0-44150-10    | SHIFT CAM ASSY (Long)         | 1 UR |
| 25      | 6E0-44311-00    | HOUSING, water pump                                                 | 1    | 58      | 6G1-44147-00    | .BOOT, shift rod              | 1    |
| 26      | 6E0-44315-00    | GASKET, water pump                                                  | 1    | 59      | 6E0-45943-00-EL | PROPELLER (3X7-1/2"X7"-B)     | 1 UR |
| 27      | 6E0-44322-01    | INSERT, cartridge                                                   | 1 UR | 60      | 6E0-45941-00-EL | PROPELLER (3X7-1/4"X8"-B)     | 1 UR |
| 28      | 6E0-44322-40    | INSERT, cartridge (Chromate)                                        | 1 UR | 61      | 6E0-45945-00-EL | PROPELLER (3X7-1/4"X7-1/4"-B) | 1 UR |
| 29      | 6E0-44323-00    | OUTER PLATE, cartridge                                              | 1 UR | 62      | 6E0-45947-00-EL | PROPELLER (3X7-1/4"X8-1/4"-B) | 1 UR |
| 30      | 6E0-44323-40    | OUTER PLATE, cartridge (Chromate)                                   | 1 UR | 63      | 654-45941-01-EL | PROPELLER (3X7-1/4"X6-1/2"-B) | 1 UR |
| 31      | 6E0-44366-00    | DAMPER, water seal                                                  | 1    | 64      | 654-45943-01-EL | PROPELLER (3X7-1/4"X7-1/4"-B) | 1 UR |
| 32      | 6E0-44352-00    | IMPELLER                                                            | 1    | 65      | 644-45941-01-EL | PROPELLER (3X7-1/4"X5"-B)     | 1 UR |
| 33      | 93604-09066     | PIN, dowel                                                          | 1    | 66      | 6E0-45331-00-9M | HOUSING, bearing (Long)       | 1    |
| 34      | 97395-06045     | BOLT                                                                | 4    | 67      | 6E0-45318-01    | BUSHING, drive shaft (Long)   | 1    |
| 35      | 93604-18080     | PIN, dowel                                                          | 2    | 68      | 93420-22M03     | CIRCLIP                       | 1    |
| 36      |                 |                                                                     |      | 69      | 98580-05525     | SCREW, pan head               | 2    |
| 37      |                 |                                                                     |      | 70      | 92990-05600     | WASHER, plate                 | 2    |

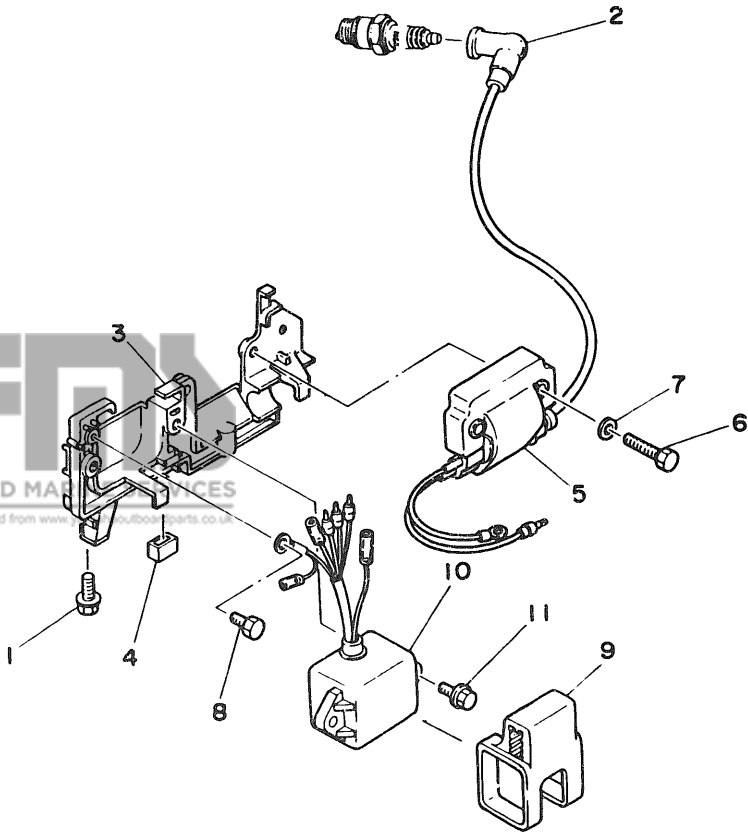


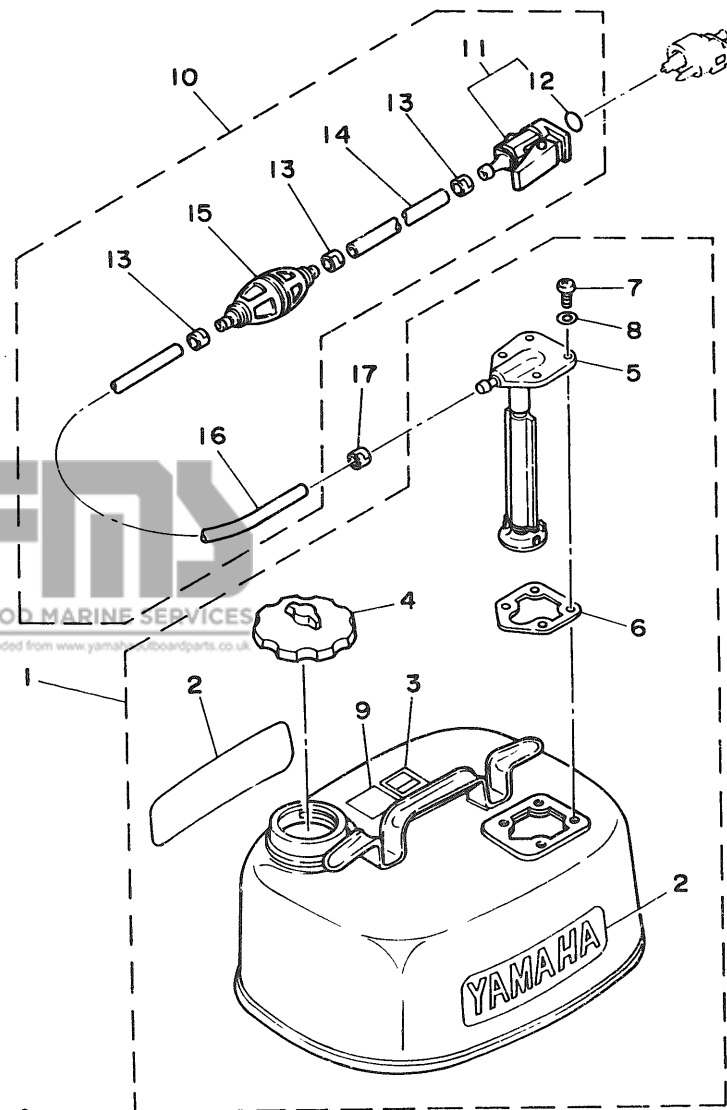
**Fig. 8 GENERATOR**

| Ref.No. | Parts No.       | Description         | Q'ty | Ref.No. | Parts No.    | Description              | Q'ty |
|---------|-----------------|---------------------|------|---------|--------------|--------------------------|------|
| 1       | 6E0-85550-71    | ROTOR ASSY          | 1    | 13      | 6E0-81328-70 | .CLAMP                   | 1    |
| 2       | 6E0-15723-00-94 | .PULLEY, starter    | 1    | 14      | 90159-04035  | .SCREW, with washer      | 1    |
| 3       | 90105-06H14     | .BOLT, washer based | 3    | 15      | 93210-42159  | O-RING                   | 1    |
| 4       | 6E0-85560-70    | BASE ASSY           | 1    | 16      | 93102-20M25  | OIL SEAL                 | 1    |
| 5       | 6E0-15359-00-94 | .HOUSING, oil seal  | 1    | 17      | 90105-06H14  | BOLT, washer based       | 2    |
| 6       | 6E0-85520-70    | .COIL, charge       | 1    | 18      | 6E0-24183-00 | DAMPER, locating 3       | 2    |
| 7       | 90159-05038     | .SCREW, with washer | 2    | 19      | 90280-04M06  | KEY, woodruff            | 1    |
| 8       | 6E0-85595-70    | .COIL, pulser       | 1    | 20      | 90170-10113  | NUT                      | 1    |
| 9       | 90159-04036     | .SCREW, with washer | 2    | 21      | 90201-102G9  | WASHER, plate            | 1    |
| 10      | 6E0-85592-70    | .PULSER COIL ASSY   | 1    | 22      | 6E0-81303-80 | LIGHTING COIL ASSY (60W) | 1 AP |
| 11      | 90159-05037     | .SCREW, with washer | 2    | 23      | 90159-05040  | .SCREW, with washer      | 2    |
| 12      | 6E0-81336-70    | .GROMMET            | 1    |         |              |                          |      |

**Fig. 9 ELECTRICAL 1**

| Ref.No. | Parts No.       | Description            | Q'ty | Ref.No. | Parts No.    | Description        | Q'ty |
|---------|-----------------|------------------------|------|---------|--------------|--------------------|------|
| 1       | 95895-06016     | BOLT, flange           | 2    | 7       | 92990-06600  | WASHER, plate      | 2    |
| 2       | 661-82370-20    | PLUG CAP ASSY          | 1    | 8       | 97313-06010  | BOLT               | 1    |
| 3       | 6E0-82316-00-94 | BRACKET, ignition coil | 1    | 9       | 6E0-85548-00 | HOLDER             | 1    |
| 4       | 6E0-82317-00    | DAMPER, ignition coil  | 2    | 10      | 6E0-85540-71 | C.D.I. UNIT ASSY   | 1    |
| 5       | 6E0-85570-20    | IGNITION COIL ASSY     | 1    | 11      | 90105-06M15  | BOLT, washer based | 2    |
| 6       | 97313-06030     | BOLT                   | 2    |         |              |                    |      |





**Fig. 10 ALTERNATE 1 (4AS MODEL)**

| Ref.No. | Parts No.       | Description           | Q'ty | Ref.No. | Parts No.    | Description                 | Q'ty |
|---------|-----------------|-----------------------|------|---------|--------------|-----------------------------|------|
| 1       | 6Y0-W2420-63-24 | FUEL TANK ASSY        | 1    | 10      | 6Y0-24306-04 | FUEL PIPE COMP. 1           | 1    |
| 2       | 6Y1-24246-00    | .GRAPHIC, side        | 2    | 11      | 6G1-24305-00 | .FUEL PIPE JOINT COMP. 1, 2 | 1    |
| 3       | 6Y1-24257-00    | .GRAPHIC              | 1    | 12      | 93210-08287  | .O-RING                     | 1    |
| 4       | 6Y0-24610-00    | .CAP ASSY             | 1    | 13      | 650-24351-01 | .BAND 1                     | 3    |
| 5       | 6Y0-24275-60    | .FUEL METER COMP.     | 1    | 14      | 90445-11M05  | .HOSE (L850)                | 1    |
| 6       | 663-24268-00    | .GASKET, fuel meter   | 1    | 15      | 6Y1-24360-02 | .PRIMER PUMP ASSY           | 1    |
| 7       | 98586-05016     | .SCREW, pan head      | 4    | 16      | 90445-11M79  | .HOSE                       | 1    |
| 8       | 6Y1-24329-00    | .SEAL                 | 4    | 17      | 650-24351-50 | BAND 1                      | 1    |
| 9       | 6Y1-24255-80    | .GRAPHIC, fuel tank 8 | 1    |         |              |                             |      |

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

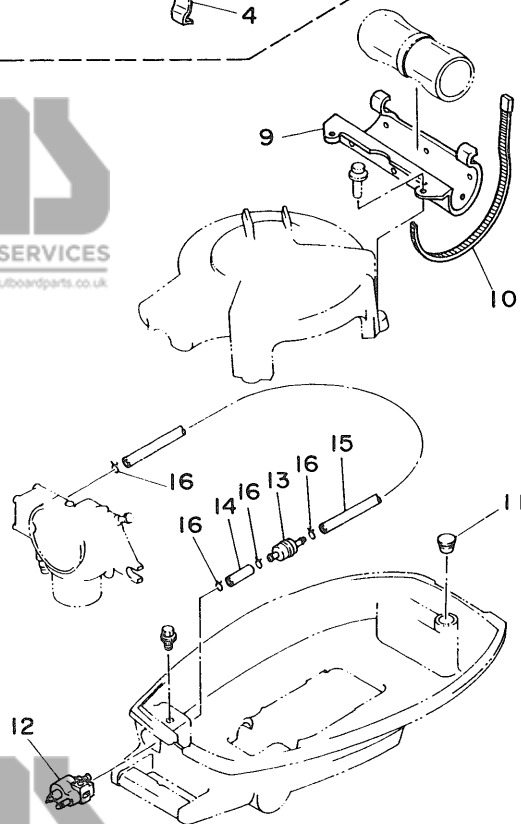
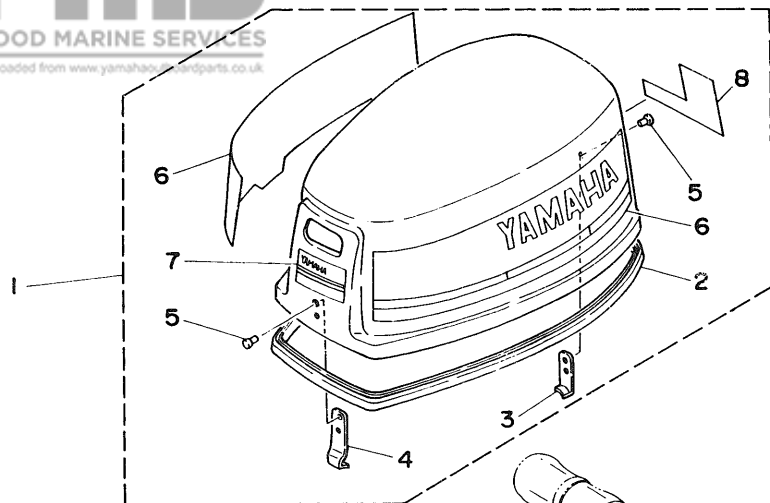
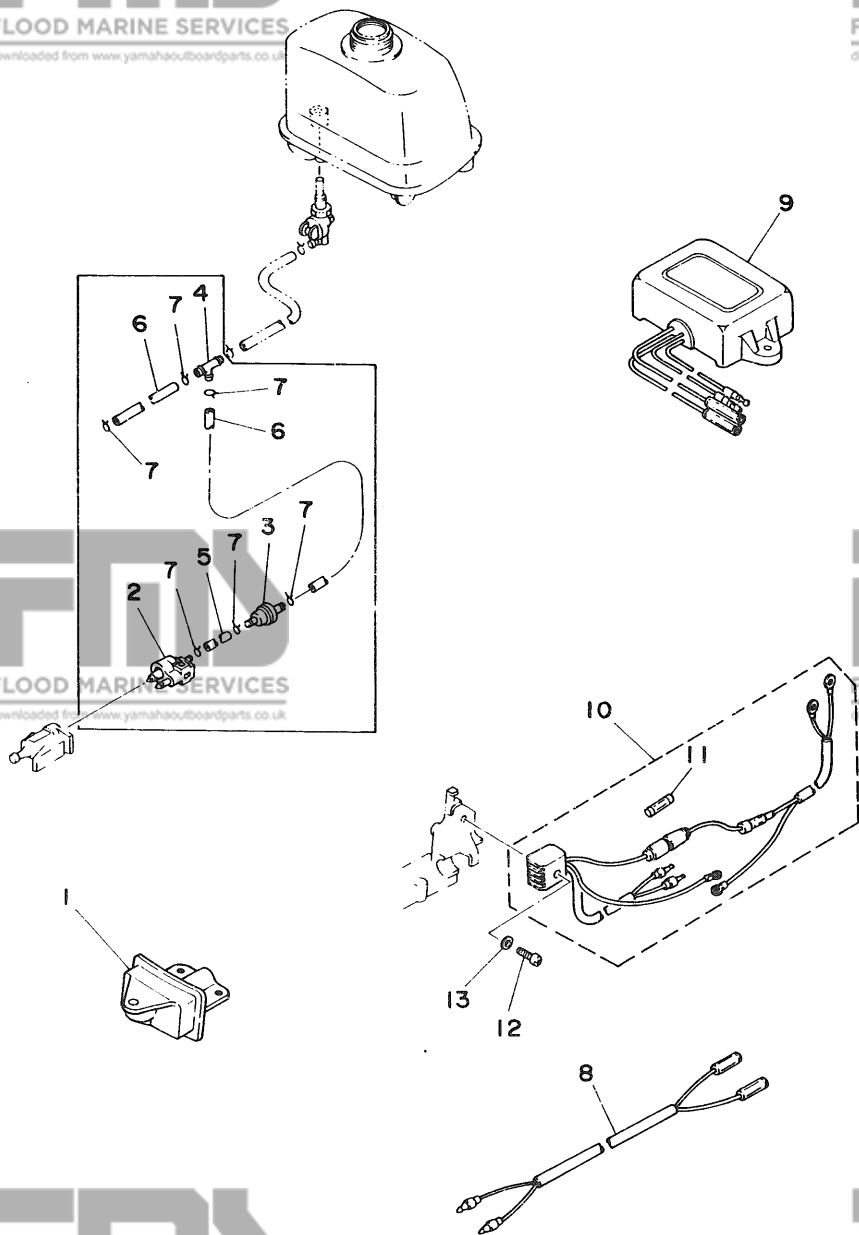


Fig. 11 ALTERNATE 2 (4AS MODEL)

| Ref.No. | Parts No.       | Description         | Q'ty | Ref.No. | Parts No.    | Description             | Q'ty |
|---------|-----------------|---------------------|------|---------|--------------|-------------------------|------|
| 1       | 6E1-42610-23-EJ | TOP COWLING ASSY    | 1    | 9       | 6E1-42643-00 | PLATE, clamp            | 1    |
| 2       | 6E0-42615-00    | .SEAL               | 1    | 10      | 90465-13154  | CLAMP                   | 1    |
| 3       | 6E0-42647-01    | .HOLDER, clamp band | 1    | 11      | 6E1-24182-00 | DAMPER, locating 2      | 2    |
| 4       | 6E0-42651-01    | .HOOK               | 1    | 12      | 6G1-24304-02 | FUEL PIPE JOINT COMP. 1 | 1    |
| 5       | 90266-04M00     | .RIVET              | 4    | 13      | 646-24251-01 | STRAINER 1              | 1    |
| 6       | 6E0-W0070-22    | .GRAPHIC SET        | 1    | 14      | 90445-09057  | HOSE                    | 1    |
| 7       | 6E0-42677-01    | .GRAPHIC, front     | 1    | 15      | 90445-09068  | HOSE                    | 1    |
| 8       | 6E0-42678-20    | .GRAPHIC, rear      | 1    | 16      | 90467-08004  | CLIP                    | 4    |



**Fig. 12 OPTIONAL PARTS 1**

| Ref.No. | Parts No.       | Description             | Q'ty | Ref.No. | Parts No.    | Description            | Q'ty |
|---------|-----------------|-------------------------|------|---------|--------------|------------------------|------|
| 1       | 6E0-15758-80-EJ | GUIDE, rope             | 1    | 8       | 6E0-83553-20 | WIRE, lead             | 1    |
| 2       | 6G1-24304-02    | FUEL PIPE JOINT COMP. 1 | 1    | 9       | 663-81910-10 | VOLTAGE REGULATOR ASSY | 1    |
| 3       | 646-24251-01    | STRAINER 1              | 1    | 10      | 676-81970-00 | RECTIFIER ASSY         | 1    |
| 4       | 688-24378-00    | PIPE, joint 4           | 1    | 11      | 663-82151-00 | FUSE (12V-20A)         | 1    |
| 5       | 90445-09068     | HOSE                    | 1    | 12      | 98503-05025  | SCREW, pan head        | 1    |
| 6       | 90445-09220     | HOSE                    | 2    | 13      | 92990-05600  | WASHER, plate          | 1    |
| 7       | 90467-08004     | CLIP                    | 6    |         |              |                        |      |

POWER HEAD  
GASKET KIT

CARBURETOR  
REPAIR KIT

LOWER UNIT  
GASKET KIT

WATER PUMP  
REPAIR KIT

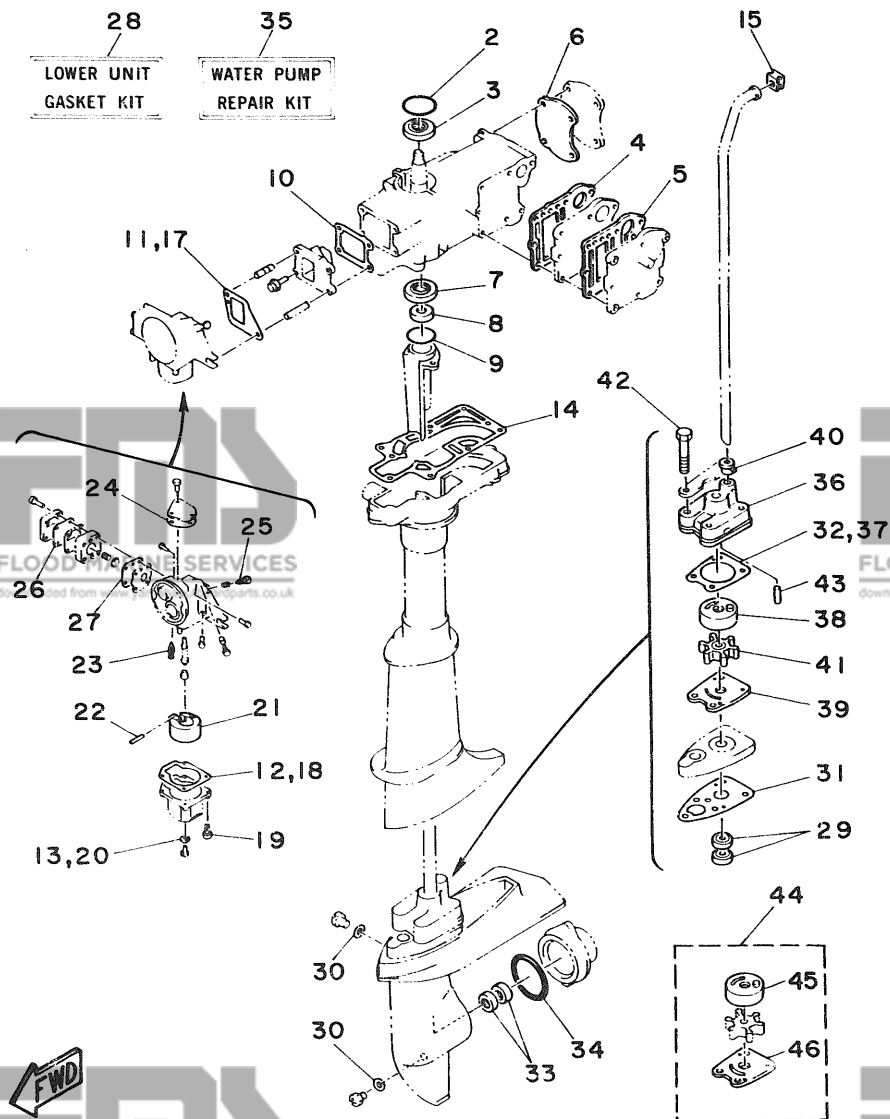


Fig. 13 REPAIR KIT

| Ref.No. | Parts No.    | Description                  | Q'ty | Ref.No. | Parts No.    | Description                        | Q'ty |
|---------|--------------|------------------------------|------|---------|--------------|------------------------------------|------|
| 1       | 6E0-W0001-02 | POWER HEAD GASKET KIT        | 1    | 25      | 647-14323-00 | .SCREW, air adjusting              | 1    |
| 2       | 93210-42159  | .O-RING                      | 1    | 26      | 6E0-24471-00 | .DIAPHRAGM                         | 1    |
| 3       | 93102-20M25  | .OIL SEAL                    | 1    | 27      | 6E0-24411-00 | .DIAPHRAGM                         | 1    |
| 4       | 6E0-41112-01 | .GASKET, exhaust inner cover | 1    | 28      | 6E0-W0001-20 | LOWER UNIT GASKET KIT              | 1    |
| 5       | 6E0-41114-01 | .GASKET, exhaust outer cover | 1    | 29      | 93101-10M14  | .OIL SEAL                          | 2    |
| 6       | 6E0-11193-01 | .GASKET, head cover 1        | 1    | 30      | 90430-08020  | .GASKET                            | 3    |
| 7       | 93101-20M34  | .OIL SEAL                    | 1    | 31      | 6E0-45315-00 | .PACKING, lower casing             | 1    |
| 8       | 93101-10M14  | .OIL SEAL                    | 1    | 32      | 6E0-44315-00 | .GASKET, water pump                | 1    |
| 9       | 93210-31114  | .O-RING                      | 1    | 33      | 93101-13M12  | .OIL SEAL                          | 2    |
| 10      | 6E0-13621-00 | .GASKET, valve seat          | 1    | 34      | 93210-48214  | .O-RING                            | 1    |
| 11      | 6E0-14198-00 | .GASKET                      | 1    | 35      | 6E0-W0078-01 | WATER PUMP REPAIR KIT              | 1    |
| 12      | 6E0-14384-00 | .GASKET, float chamber       | 1    | 36      | 6E0-44311-00 | .HOUSING, water pump               | 1    |
| 13      | 6A1-14398-00 | .GASKET                      | 1    | 37      | 6E0-44315-00 | .GASKET, water pump                | 1    |
| 14      | 6E0-45113-00 | .GASKET, upper casing        | 1    | 38      | 6E0-44322-01 | .INSERT, cartridge                 | 1    |
| 15      | 646-44365-00 | .DAMPER, water seal          | 1    | 39      | 6E0-44323-00 | .OUTER PLATE, cartridge            | 1    |
| 16      | 6E0-W0093-01 | CARBURETOR REPAIR KIT        | 1    | 40      | 6E0-44366-00 | .DAMPER, water seal                | 1    |
| 17      | 6E0-14198-00 | .GASKET                      | 1    | 41      | 6E0-44352-00 | .IMPELLER                          | 1    |
| 18      | 6E0-14384-00 | .GASKET, float chamber       | 1    | 42      | 97395-06045  | .BOLT                              | 4    |
| 19      | 98580-04016  | .SCREW, pan head             | 1    | 43      | 93604-09066  | .PIN, dowel                        | 1    |
| 20      | 6A1-14398-00 | .GASKET                      | 1    | 44      | 6E0-W0078-01 | CHROME PUMP KIT                    | 1    |
| 21      | 6E7-14385-00 | .FLOAT                       | 1    | 45      | 6E0-44322-40 | .INSERT, cartridge (Chromate)      | 1    |
| 22      | 647-14386-00 | .PIN, float                  | 1    | 46      | 6E0-44323-40 | .OUTER PLATE, cartridge (Chromate) | 1    |
| 23      | 6G8-14392-00 | .VALVE, needle               | 1    |         |              |                                    |      |
| 24      | 6E0-14227-00 | .GASKET                      | 1    |         |              |                                    |      |

| PART NO.        | REF. NO. |
|-----------------|----------|
| 6E0-W0001-02    | 13- 1    |
| 6E0-W0001-20    | 13-28    |
| 6E0-W0004-00    | 2- 2     |
| 6E0-W0070-22    | 4- 6     |
|                 | 11- 6    |
| 6E0-W0078-01    | 13-35    |
|                 | 13-44    |
| 6E0-W0090-03-EJ | 1- 1     |
| 6E0-W0093-01    | 13-16    |
| 6Y0-W2420-63-24 | 10- 1    |
| 6E0-11191-01-9M | 1-21     |
| 6E0-11193-01    | 1-22     |
|                 | 13- 6    |
| 650-11370-00    | 1- 3     |
| 6E5-11372-00    | 1- 5     |
| 6E0-11400-00    | 1-31     |
| 6E0-11412-00    | 1-32     |
| 6E0-11422-00    | 1-33     |
| 6G1-11610-00    | 1-42     |
| 6E0-11631-00-98 | 1-41     |
| 6G1-11633-00    | 1-44     |
| 6E0-11651-01    | 1-37     |
| 6G1-11681-00    | 1-34     |
| 6E5-12411-00    | 1-46     |
| 6E0-13610-00    | 2- 1     |
| 6E0-13621-00    | 2- 3     |
|                 | 13-10    |
| 6E0-14157-00    | 2-16     |
| 6E0-14198-00    | 2-33     |
|                 | 13-11    |
|                 | 13-17    |
| 646-14212-01    | 2-20     |
| 6E0-14227-00    | 2-17     |
|                 | 13-24    |
| 6E0-14301-02    | 2- 5     |
| 648-14321-00    | 2-21     |
| 647-14323-00    | 2-19     |
|                 | 13-25    |
| 647-14326-00    | 2-23     |
| 6E0-14341-01    | 2-13     |
| 648-14342-23    | 2-22     |
| 648-14343-40    | 2-14     |
| 6E0-14346-00    | 2-30     |
| 6E0-14381-01    | 2- 6     |
| 677-14383-00    | 2- 9     |
| 6E0-14384-00    | 2- 7     |
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|                 | 13-18    |

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|-----------------|----------|
| 6E7-14385-00    | 2-11     |
|                 | 13-21    |
| 647-14386-00    | 2-12     |
|                 | 13-22    |
| 6G8-14392-00    | 2-15     |
|                 | 13-23    |
| 6A1-14398-00    | 2-10     |
|                 | 13-13    |
|                 | 13-20    |
| 6E0-14417-00    | 2-36     |
| 6E0-14418-00    | 2-37     |
| 624-14485-00    | 1- 4     |
| 6E0-15100-01-94 | 1- 2     |
| 6E0-15359-00-94 | 8- 5     |
| 6E0-15396-02-9M | 1-16     |
| 6E0-15705-00    | 3-11     |
| 6E0-15710-03-94 | 3- 1     |
| 6E4-15711-71-94 | 3- 2     |
| 6E0-15714-01    | 3- 3     |
| 6E0-15717-00    | 3- 5     |
| 6E0-15723-00-94 | 8- 2     |
| 677-15741-01    | 3- 9     |
| 6G1-15755-00    | 3-14     |
| 6E0-15758-01    | 3-15     |
| 6E0-15758-80-EJ | 12- 1    |
| 6E0-15761-00    | 3-16     |
| 6G1-15779-00    | 3-12     |
| 6E0-24110-00-EJ | 4-23     |
| 6E0-24181-00    | 4-25     |
| 6E0-24182-00    | 4-19     |
| 6E1-24182-00    | 11-11    |
| 6E0-24183-00    | 8-18     |
| 6Y1-24246-00    | 10- 2    |
| 646-24251-01    | 11-13    |
|                 | 12- 3    |
| 6Y1-24255-80    | 10- 9    |
| 6Y1-24257-00    | 10- 3    |
| 663-24268-00    | 10- 6    |
| 6Y0-24275-60    | 10- 5    |
| 6G1-24304-02    | 11-12    |
|                 | 12- 2    |
| 6G1-24305-00    | 10-11    |
| 6Y0-24306-04    | 10-10    |
| 6Y1-24329-00    | 10- 8    |
| 650-24351-01    | 10-13    |
| 650-24351-50    | 10-17    |
| 6Y1-24360-02    | 10-15    |
| 6E0-24378-00    | 1- 9     |

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