HOW TO USE THIS MANUAL

MANUAL FORMAT

All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been complied to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.
In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

- Bearings
  Pitting/Damage→Replace.

To assist you to find your way about this manual, the Section Title and Major Heading is given at the head of every page.

An Index to contents is provided on the first page of each Section.

MODEL INDICATION

Multiple models are shown in this manual. These indications are noted as follows.

Model name	Indication
Super Jet (SJ700) Marine Jet 700SJ	SJ
FX1	FX1

THE ILLUSTRATIONS

Some illustrations in this manual may differ from the model you have. This is because a procedure described may relate to several models, though only one may be illustrated. (The name of model described will be mentioned in the description).

REFERENCES

These have been kept to a minimum; however, when you are referred to another section of the manual, you are told the page number to go to.

WARNINGS; CAUTIONS AND NOTES

Attention is drawn to the various Warnings, Cautions and Notes which distinguish important information in this manual in the following ways.

⚠ The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

⚠ WARNING

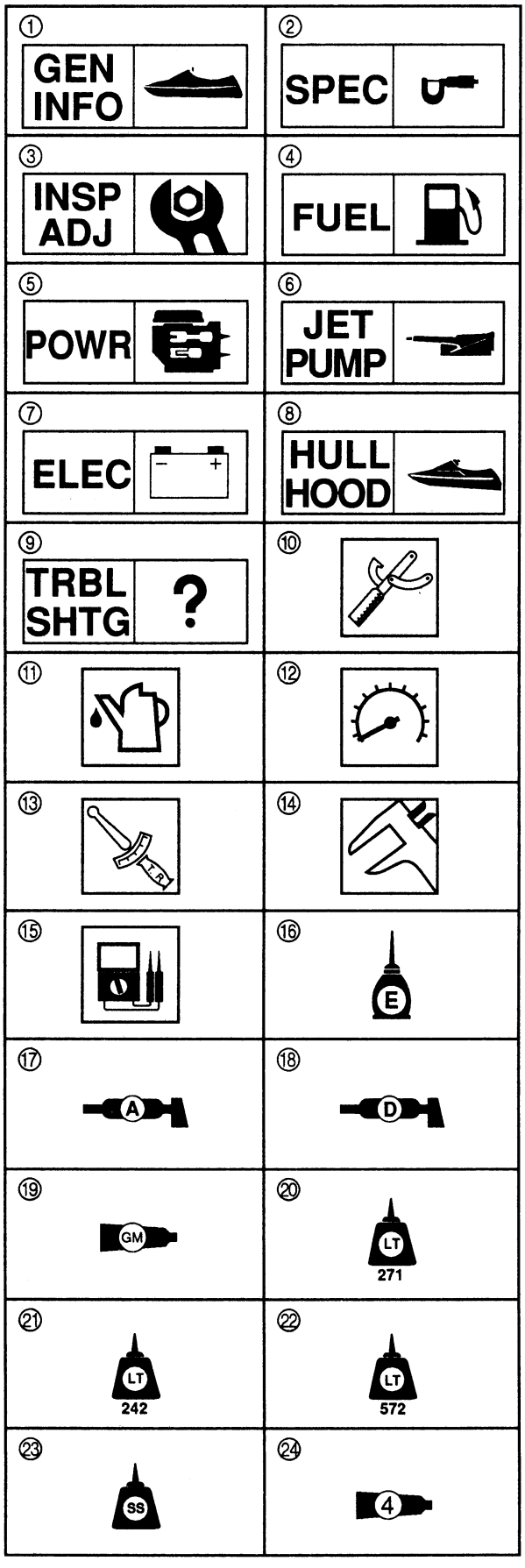
Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the water vehicle.

CAUTION:

A CAUTION indicates special precautions that must be taken to avoid damage to the water vehicle.

NOTE:

A NOTE provides key information to make procedures easier or clearer.



SYMBOLS

Symbols ① to ⑨ are designed as thumb-tabs to indicate the content of a chapter:

① General Information
② Specifications
③ Periodic Inspection and Adjustment
④ Fuel System
⑤ Power Unit
⑥ Jet Pump Unit
⑦ Electrical System
⑧ Hull and Hood
⑨ Trouble-shooting

Symbols ⑩ to ⑮ indicate specific data:

⑩ Special tool
⑪ Lubricant
⑫ Engine speed
⑬ Tightening torque
⑭ Specified value, Service limit
⑮ Resistance (Ω), Voltage (V), Electric current (A)

Symbol ⑯ to ⑱ in an exploded diagram indicate grade of lubricant and location of lubrication point:

⑯ Apply Yamaha two-cycle outboard oil (Yamalube two-cycle outboard oil, Yamalube 1)
⑰ Apply water resistant grease (Yamaha grease A, Yamaha marine grease)
⑱ Apply water resistant grease (Yamaha grease D, Yamaha marine grease)

Symbols ⑲ to ㉔ in an exploded diagram indicate grade of sealing or locking agent, and location of application point:

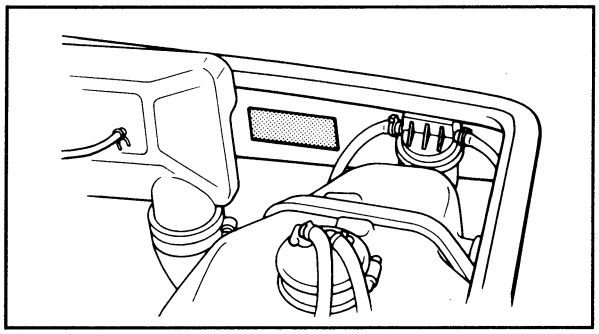
⑲ Apply Gasket maker®
⑳ Apply LOCTITE® No. 271 (Red LOCTITE)
㉑ Apply LOCTITE® No. 242 (Blue LOCTITE)
㉒ Apply LOCTITE® No. 572
㉓ Apply Silicone sealant
㉔ Apply Yamabond #4 (Yamaha bond No. 4)

NOTE:

In this manual, the above symbols may not be used in every case.

INDEX

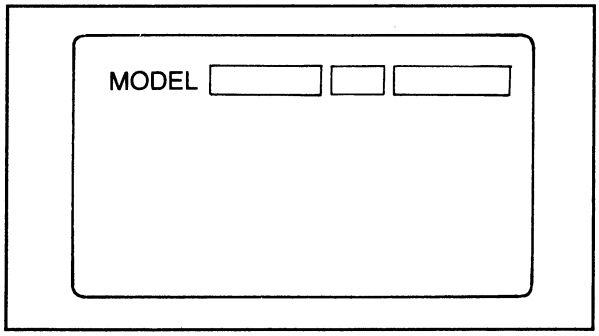
CHAPTER 1.
GENERAL INFORMATION



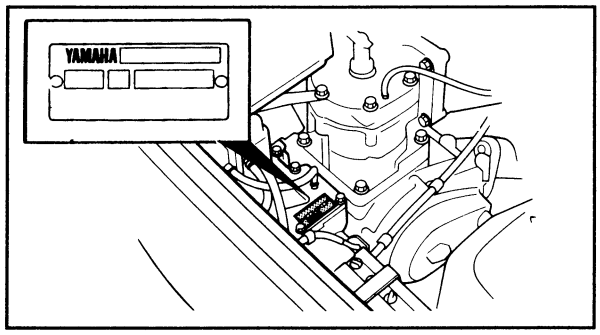
IDENTIFICATION NUMBERS

PRIMARY I.D. NUMBER

The primary I.D. number is stamped on a plate attached to the inside of the engine compartment.



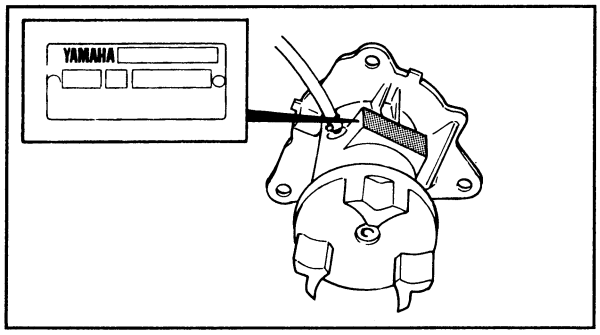
Starting Primary I.D. Number:
GH7: 800101~ (Except for F)
600101~ (For F)
FX1: 900101~ (Except for F)
910101~ (For F)



ENGINE SERIAL NUMBER

The engine serial number is stamped on a plate attached to the intake manifold.

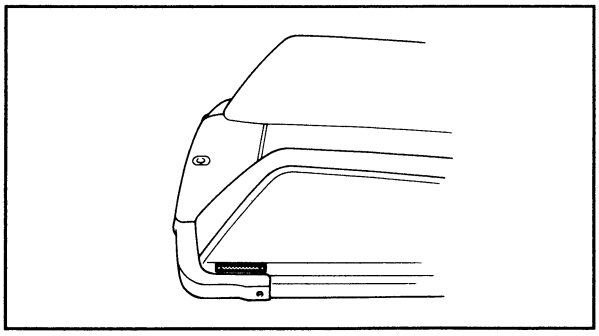
Starting serial number:
62N: 000101~
62L: 000101~



PUMP SERIAL NUMBER

The jet pump unit serial number is stamped on a plate attached on the intermediate housing.

Starting serial number:
62N: 500101~
62L: 500101~



HULL IDENTIFICATION NUMBER (H.I.N.)

The H.I.N. is stamped on the rear end of the footrest floor.

SAFETY WHILE WORKING

The procedures given in this manual are those recommended by Yamaha to be followed by Yamaha dealers and their mechanics.

FIRE PREVENTION

Petrol (petroleum spirit, gasoline) is highly flammable.
Petroleum vapour is explosive if ignited. Do not smoke while handling gasoline, and keep it away from heat, sparks, and open flames.

VENTILATION

Petroleum vapour is heavier than air and if inhaled in large quantities will not support life. Engine exhaust gases are harmful to breathe. When test-running an engine indoors, maintain good ventilation.

SELF-PROTECTION

Protect your eyes with suitable safety spectacles or safety goggles when using compressed air, when grinding or when doing any operation which may cause particles to fly off. Protect hands and feet by wearing safety gloves or protective shoes if appropriate to the work you are doing.

SAFETY WHILE WORKING

OILS, GREASES AND SEALING FLUIDS

Use only genuine Yamaha oils, greases and sealing fluids or those recommended by Yamaha.

Under normal conditions of use, there should be no hazards from the use of the lubricants mentioned in this manual, but safety is all-important, and by adopting good safety practises. any risk is minimized. A summary of the most important precautions is as follows:

1. While working, maintain good standards of personal and industrial hygiene.
2. Clothing which has become contaminated with lubricants should be changed as soon as practicable, and laundered before further use.
3. Avoid skin contact with lubricants; do not, for example, place a soiled wiping-rag in one's pocket.
4. Hands, and any other part of the body which have been in contact with lubricants or lubricant-contaminated clothing, should be thoroughly washed with hot water and soap as soon as practicable.
5. To protect the skin, the application of a suitable barrier cream to the hands before working is recommended.
6. A supply of clean lint-free cloths should be available for wiping purposes.

SAFETY WHILE WORKING

GOOD WORKING PRACTICES

1. The right tools
   Use the special tools that are advised to protect parts from damage. Use the right tool in the right manner- don't improvise.
2. Tightening torque
   Follow the torque tightening instructions. When tightening bolts, nuts and screws, tighten the larger sizes first, and tighten inner-positioned fixings before outer-positioned ones.
3. Non-reusable items
   Always use new gaskets, packing, o-rings, split-pins and circlips etc on reassembly.

DISASSEMBLY AND ASSEMBLY

1. Clean parts with compressed-air on disassembling them.
2. Oil the contact surfaces of moving parts on assembly.
3. After assembly, check that moving parts operate normally.
4. Install bearings with the manufacturer's markings on the side exposed to view, and liberally oil the bearings.
5. When installing oil seals, apply a light coating of water-resistant grease to the outside diameter.

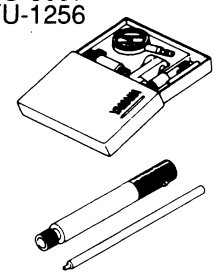
SPECIAL TOOLS

The use of correct special tools recommended by Yamaha will aid the work and enable accurate assembly and tune-up. Improvisations and use of improper tools can cause damage to the equipment.

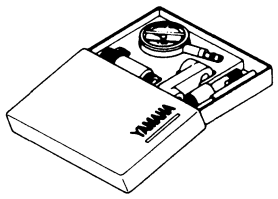
NOTE:

- For U.S.A. and Canada, use part number starting with "YB-", "YU-" or "YW-".
- For others, use part number starting with "90890-".

YU-3097
YU-1256



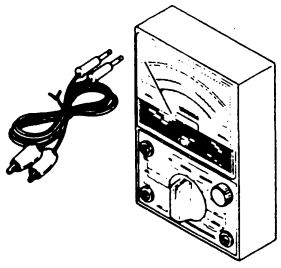
90890-01252



FOR TUNE-UP

1. Dial gauge and stand
   P/N. YU-3097, YU-1256
   90890-01252

YU-03112



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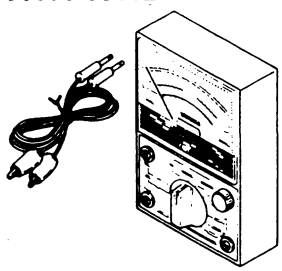
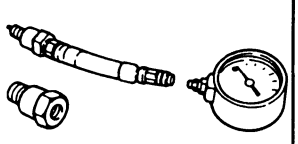


2. Pocket tester
   P/N. YU-03112
   90890-03112

YU-33223

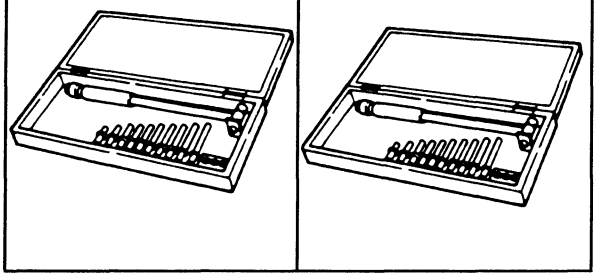
90890-06751



3. Compression gauge
   P/N. YU-33223
   90890-06751

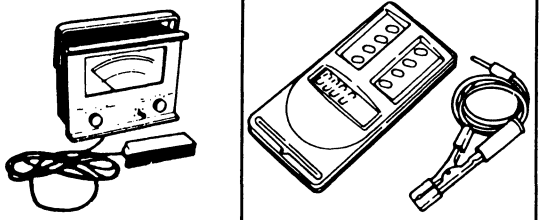
SPECIAL TOOLS

YU-3017 | 90890-06759



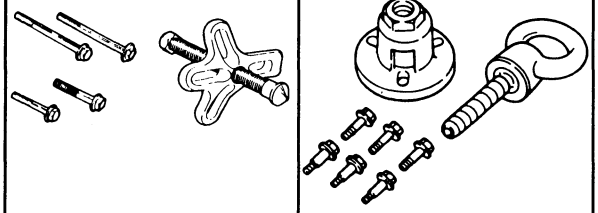
4. Cylinder gauge set
   P/N. YU-3017
   90890-06759

YU-8036-A | 90890-06760



5. Engine tachometer
   P/N. YU-8036-A
   90890-06760

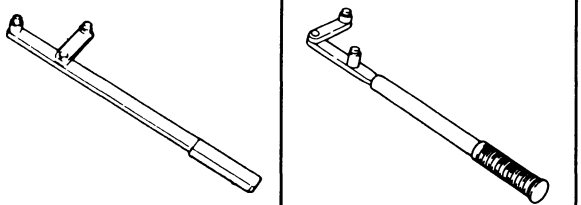
YB-6117 | 90890-06521



FOR POWER UNIT SERVICE

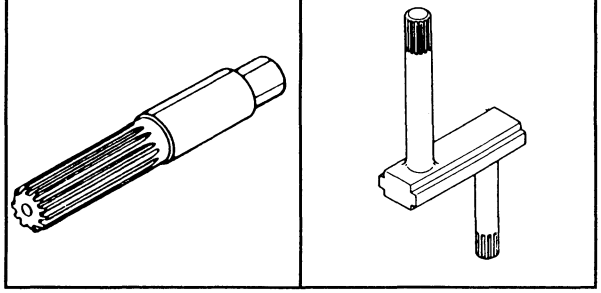
1. Flywheel puller
   P/N. YB-6117
   90890-06521

YB-6139 | 90890-06522



2. Flywheel holder
   P/N. YB-6139
   90890-06522

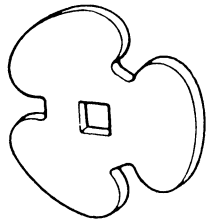
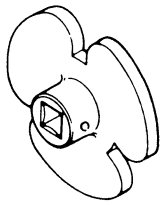
YW-38742 | 90890-06069



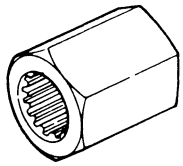
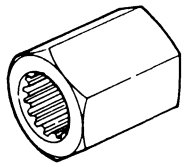
FOR JET UNIT SERVICE

1. Shaft holder
   P/N. YW-38742
   90890-06069

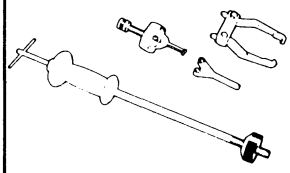
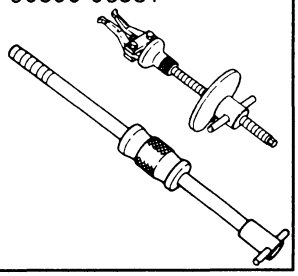
SPECIAL TOOLS

YW-38741	90890-06425
	

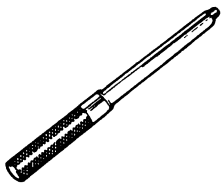
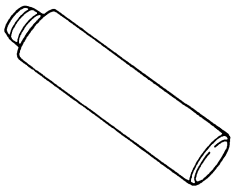
2. Coupler wrench
   P/N. YW-38741
   90890-06425

YB-6049	90890-06518
	

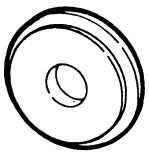
3. Drive shaft holder
   P/N. YB-6049
   90890-06518

YB-6096	90890-06523 90890-06531
	

4. Slide hammer set
   P/N. YB-6096
   90890-06523
   90890-06531

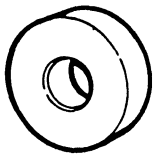
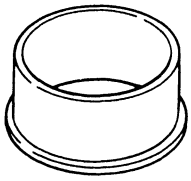
YB-6071	90890-06606
	

5. Driver rod
   P/N. YB-6071
   90890-06606

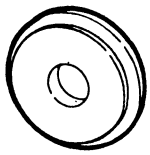
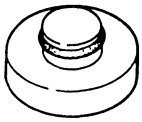
YB-6016	90890-06626
	

6. Bearing outer race attachment
   P/N. YB-6016
   90890-06626

SPECIAL TOOLS

YB-34474	90890-06662
	

7. Bearing inner race attachment
   P/N. YB-34474
   90890-06662

YB-6156	90890-06634
	

8. Ball bearing attachment
   P/N. YB-6156
   90890-06634

CHAPTER 2.
SPECIFICATIONS

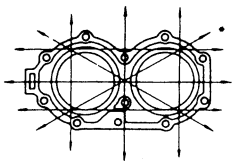
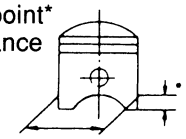
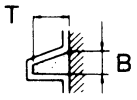
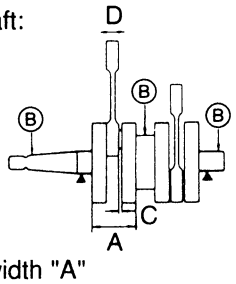
GENERAL SPECIFICATIONS

Item \ Model	Unit	SJ	FX1
MODEL CODE:			
Hull		GH7	FX1
Engine		62N	62L
DIMENSIONS:			
Length	mm (in)	2,240 (88.2)	2,130 (83.9)
Width	mm (in)	680 (26.8)	630 (24.8)
Height	mm (in)	660 (26.0)	680 (26.8)
Dry weight	kg (lb)	132 (291)	121 (267)
PERFORMANCE:			
Maximum speed	km/h (mph)	70 (43.5)	75 (46.6)
Static thrust	kg (lb)	225 (496)	225 (496)
Minimum turning radius	m (ft)	0	0
Maximum output	kW (hp)/rpm	46.6 (62.5)/6,250	46.2 (62)/6,250
Maximum fuel consumption	ℓ /h (US gal/h, Imp gal/h)	26 (6.9, 5.7)	26 (6.9, 5.7)
Crusing range (at full throttle)	hr.	0.7	0.5
ENGINE:			
Engine type		2-stroke	2-stroke
Number of cylinder		2	2
Displacement	cm^3(cu. in)	701 (42.78)	701 (42.78)
Bore and stroke	mm (in)	81 x 68 (3.19 x 2.68)	81 x 68 (3.19 x 2.68)
Compression ratio		7.2:1	7.2:1
Intake system		Reed valve	Reed valve
Carburetor type		Floatless type	Floatless type
Number of carburetor		1	1
Carburetor starting system		Choke	Choke
Scavenging system		Loop charged	Loop charged
Lubrication system		Premix	Premix
Cooling system		Water-cooled	Water-cooled
Starting system		Electric starter	Electric starter
Ignition system		C.D.I.	C.D.I.
Ignition timing	Degree	15 BTDC~21 BTDC	15 BTDC~21 BTDC
Spark plug		B8HS/BR8HS*1	B8HS/BR8HS*1
Battery capacity	V/kC (A·h)	12/68.4 (19)	12/68.4 (19)
Lighting coil	A/rpm	2~4/5,500	2~4/5,500
DRIVE UNIT:			
Propulsion system		Jet pump	Jet pump
Jet pump type		Axial flow, single stage	Axial flow, single stage
Impeller rotation (Rear view)		Counter clockwise	Counter clockwise
Transmission		Direct drive from engine	Direct drive from engine
Steering (nozzle) angle	Degree	18.5~24.5	18.5~20.5
FUEL AND OIL:			
Fuel		Regular gasoline	Regular gasoline
Oil		Two-cycle outboard motor oil	Two-cycle outboard motor oil
Fuel and oil mixing ratio		50:1	50:1
Fuel tank capacity	ℓ (US gal, Imp gal)	18 (4.8, 4.0)	14 (3.7, 3.1)
Reserve		5.5 (1.45, 1.21)	3.6 (0.95, 0.79)

*1 : It differs on specification

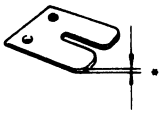
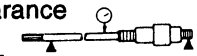
MAINTENANCE SPECIFICATIONS

1. Engine

Item \ Model	Unit	SJ	FX1
Compression pressure:	kPa (kg/cm², psi)	940 (9.4, 134)	940 (9.4, 134)
Cylinder head: Warp limit  *Lines indicate straightedge measurement.	mm (in)	0.1 (0.004)	0.1 (0.004)
Cylinder: Bore size Taper limit Out of round limit	 mm (in) mm (in) mm (in)	 81.00~81.02 (3.189~3.190) 0.08 (0.003) 0.05 (0.002)	 81.00~81.02 (3.189~3.190) 0.08 (0.003) 0.05 (0.002)
Piston: Piston size Measuring point* Piston clearance Wear limit Offset 	 mm (in) mm (in) mm (in) mm (in) mm (in)	 80.925~80.950 (3.186~3.187) 10 (0.39) 0.070~0.075 (0.0028~0.0030) 0.1 (0.004) 0.5 (0.020), Exhaust side	 80.925~80.950 (3.186~3.187) 10 (0.39) 0.070~0.075 (0.0028~0.0030) 0.1 (0.004) 0.5 (0.020), Exhaust side
Piston ring: Sectional sketch  End gap (Installed) Side clearance	 mm (in) mm (in) mm (in)	 Keystone B=1.2 (0.047), T=2.9 (0.114) 0.2~0.4 (0.008~0.016) 0.02~0.06 (0.0008~0.0024)	 Keystone B=1.2 (0.047), T=2.9 (0.114) 0.2~0.4 (0.008~0.016) 0.02~0.06 (0.0008~0.0024)
Piston pin: Outside diameter Limit	 mm (in) mm (in)	 19.995~20.000 (0.7872~0.7874) 19.975 (0.764)	 19.995~20.000 (0.7872~0.7874) 19.975 (0.764)
Crankshaft:  Crank width "A" Run out limit "B" Connecting rod big end side clearance "C" Small end free play limit "D"	 mm (in) mm (in) mm (in) mm (in)	 61.95~62.00 (2.439~2.441) 0.05 (0.0020) 0.3~0.7 (0.012~0.028) 2.0 (0.08)	 61.95~62.00 (2.439~2.441) 0.05 (0.0020) 0.3~0.7 (0.012~0.028) 2.0 (0.08)

SPEC

MAINTENANCE SPECIFICATIONS

Item \ Model	Unit	SJ	FX1
Carburetor:			
Stamped mark		61X01	61X01
Main nozzle	mm (in)	ø3.2 (0.126)	ø3.2 (0.126)
Main jet 2 (M.J.2)		#135	#135
Pilot jet (P.J.)		#115	#115
Low speed screw		1-7/8±1/4	1-7/8±1/4
Throttle valve (Th.V.)		#120	#120
Valve seat (V.S.)	mm (in)	ø1.5 (0.059)	ø1.5 (0.059)
High speed screw		1-5/8±1/4	1-5/8±1/4
Trolling speed	r/min	1,250±50	1,250±50
Reed valve: 			
Thickness*	mm (in)	0.2 (0.008)	0.2 (0.008)
Valve lift	mm (in)	10.7~11.1 (0.421~0.437)	10.7~11.1 (0.421~0.437)
Bending limit	mm (in)	0.2 (0.008)	0.2 (0.008)
Jet pump:			
Impeller clearance 	mm (in)	0.3~0.4 (0.012~0.016)	0.25~0.35 (0.010~0.014)
Service limit	mm (in)	0.6 (0.024)	0.6 (0.024)
Impeller shaft run out	mm (in)	0.3 (0.01)	0.3 (0.01)

MAINTENANCE SPECIFICATIONS

2. Electrical

Item \ Model	Unit	SJ	FX1
Ignition system:			
Type		CDI magneto	CDI magneto
Ignition timing (B.T.D.C.)			
at 1,200 rpm	Degree	15	15
at 5,500 rpm	Degree	21	21
CDI magneto:			
Model/Manufacturer		F3T30572/MITSUBISHI	F3T30575/MITSUBISHI
Pulser coil resistance (Color)	Ω	12.6~15.4 (White/Red–Black)	12.6~15.4 (White/Red–Black)
Charging coil resistance (Color)	Ω	328.5~401.5 (Brown/White–Black)	328.5~401.5 (Brown/White–Black)
CDI unit:			
Stamped mark		61X00	61X00
Model/Manufacturer		F8T13174/MITSUBISHI	F8T13174/MITSUBISHI
Over rev. limit	rpm	7,200±200	7,200±200
Overheat rev. control	rpm	3,400±400	3,400±400
Ignition coil:			
Model/Manufacturer		F6T53286/MITSUBISHI	F6T53295/MITSUBISHI
Primary winding resistance	Ω	0.078~0.106	0.078~0.106
Secondary winding resistance	kΩ	3.5~4.7	3.5~4.7
Charging system:			
Type		Flywheel magneto	Flywheel magneto
Lighting coil resistance (Color)	Ω	0.81~0.99 (Green–Green)	0.81~0.99 (Green–Green)
Rectifier regulator:			
Model/Manufacturer		SH589–12/SHINDENGEN	SH589–12/SHINDENGEN
Regulate voltage	V	14.3~15.3 at 25	14.3~15.3 at 25
Thermo sensor: ON	°C (°F)	80±3 (176±5)	80±3 (176±5)
OFF	°C (°F)	70±7 (158±13)	70±7 (158±13)
Starter motor:			
Model/Manufacturer		SM13237/MITSUBA	SM13237/MITSUBA
Brush length limit	mm (in)	6.5 (0.26)	6.5 (0.26)
Commutator undercut	mm (in)	0.2~0.7 (0.008~0.028)	0.2~0.7 (0.008~0.028)
Commutator outside diameter	mm (in)	27~28 (1.06~1.10)	27~28 (1.06~1.10)
Fuse:	A	10	10

TIGHTENING TORQUE

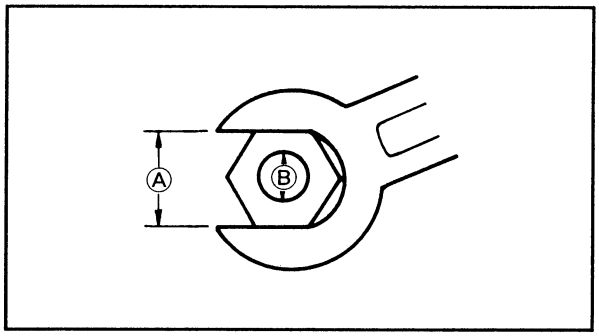
Item	Size	Q'ty		Nm		m·kg	ft·lb
Engine:							
Cylinder head	M8	10		1st	15	1.5	11
				2nd	30	3.0	22
Cylinder body	M10	6		1st	23	2.3	17
				2nd	40	4.0	29
Muffler stay	M10	5		1st	4	0.4	2.9
				2nd	40	4.0	29
Muffler 1	M8	8		1st	15	1.5	11
				2nd	30	3.0	22
Muffler 2	M10	3		1st	28	2.8	20
				2nd	53	5.3	38
Mount bracket	M10	7		1st	23	2.3	17
				2nd	47	4.7	34
Crankcase	M8	8		1st	15	1.5	11
				2nd	28	2.8	20
Flame arrestor cover	M5	4			2	0.2	1.4
Mounting bolt	M8	4			16	1.6	11
Spark plug	M14	2			20	2.0	14
Electric box	M6	2	SJ		5	0.5	3.6
	M8	3	FX1				
Starter motor terminal nut	M6	1			5	0.5	3.6
Flywheel bolt	M10	1			65	6.5	47
Jet unit:							
Mounting bolt	M10	4	SJ	1st	17	1.7	12
				2nd	34	3.4	24
	M8	4	FX1	1st	8	0.8	5.8
				2nd	16	1.6	11
Impeller (left-hand threads)	M20	1			18	1.8	13
Coupling	M24	1			36	3.6	25
Intermediate housing	M8	3			16	1.6	11
Housing	M6	4	SJ		10	1.0	7.2
	M8	4	FX1		16	1.6	11

C33500-0*

GENERAL TORQUE SPECIFICATIONS

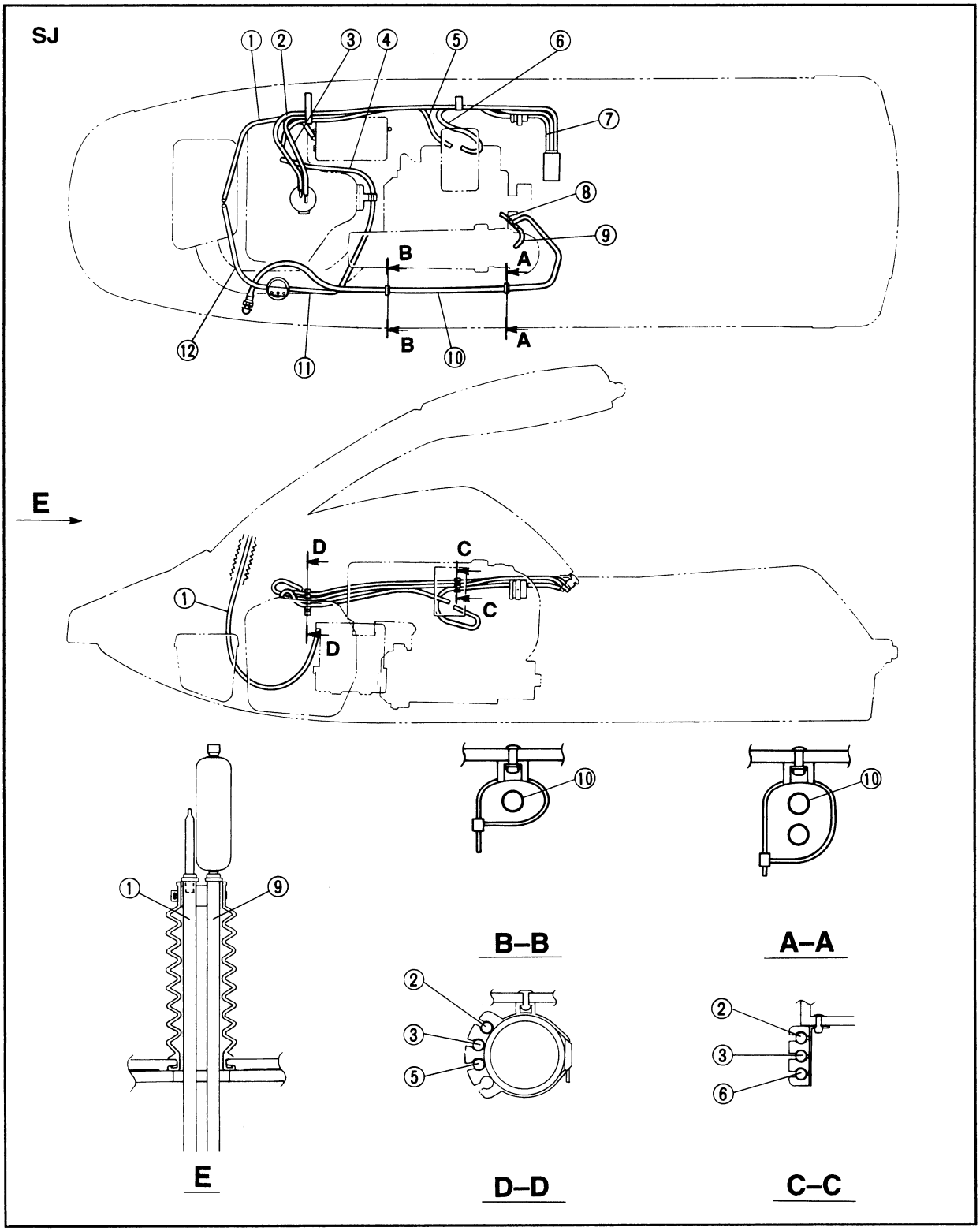
This chart specifies the torques for tightening standard fasteners with standard clean dry ISO threads at room temperature. Torque specifications for special components or assemblies are given in applicable sections of this manual. To avoid causing warpage, tighten multifastener assemblies in criss-cross fashion, in progressive stages until the specified torque is reached.

Nut Ⓐ	Bolt Ⓑ	General torque specifications		
		Nm	m·kg	ft·lb
8 mm	M5	5.0	0.5	3.6
10 mm	M6	8.0	0.8	5.8
12 mm	M8	18	1.8	13
14 mm	M10	36	3.6	25
17 mm	M12	43	4.3	31



PIPE ROUTING DIAGRAM

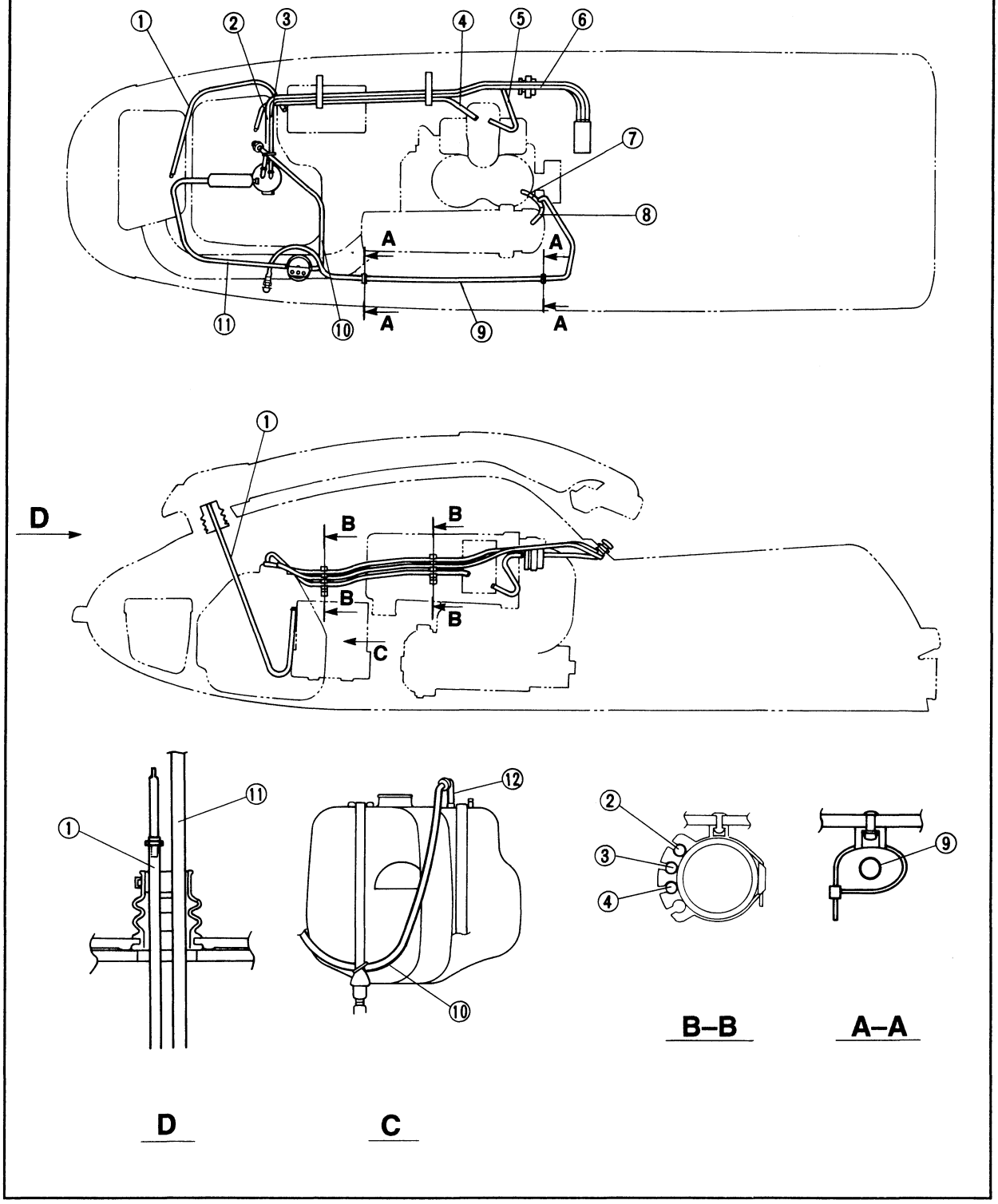
① Battery breather hose
② Fuel hose 2 (RES: Fuel tank-Fuel cock)
③ Fuel hose 1 (ON: Fuel tank-Fuel cock)
④ Air vent hose 1 (Fuel tank-Check valve)
⑤ Fuel hose 5 (Return)
⑥ Fuel hose 4 (Filter-Carburetor)
⑦ Fuel hose 3 (OUT: Fuel cock-Filter)
⑧ Cooling water hose 1 (Cylinder head-Joint)
⑨ Cooling water hose 2 (Joint-Muffler)
⑩ Pilot water hose
⑪ Air vent hose 2 (Check valve-Water separator)
⑫ Air vent hose 3 (Water separator-Ventilation pipe)



PIPE ROUTING DIAGRAM

① Battery breather hose
② Fuel hose 2 (RES: Fuel tank-Fuel cock)
③ Fuel hose 1 (ON: Fuel tank-Fuel cock)
④ Fuel hose 5 (Return)
⑤ Fuel hose 4 (Filter-Carburetor)
⑥ Fuel hose 3 (OUT: Fuel cock-Filter)
⑦ Cooling water hose 1 (Cylinder head-Joint)
⑧ Cooling water hose 2 (Joint-Muffler)
⑨ Pilot water hose
⑩ Air vent hose 2 (Check valve-Water separator)
⑪ Air vent hose 3 (Water separator-Ventilation pipe)
⑫ Air vent hose 1 (Fuel tank-Check valve)

FX1



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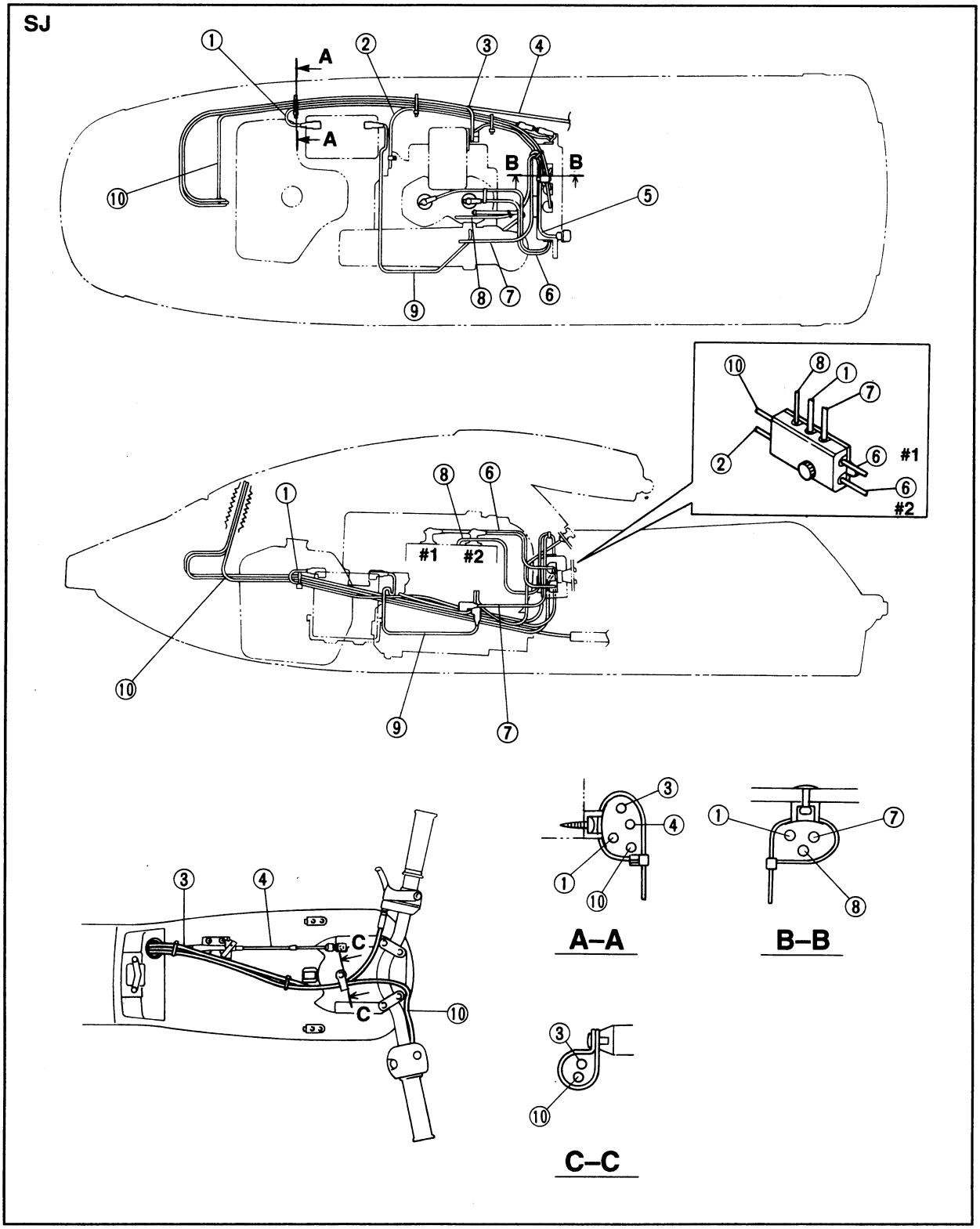
CABLE ROUTING DIAGRAM/ELECTRIC WIRING DIAGRAM

① Battery (Positive) lead
② Flywheel magneto lead
③ Throttle cable
④ Steering cable
⑤ Choke cable
⑥ High tension cord
⑦ Starter motor (Positive) lead
⑧ Thermo sensor lead
⑨ Battery (Negative) lead
⑩ Handle switch lead

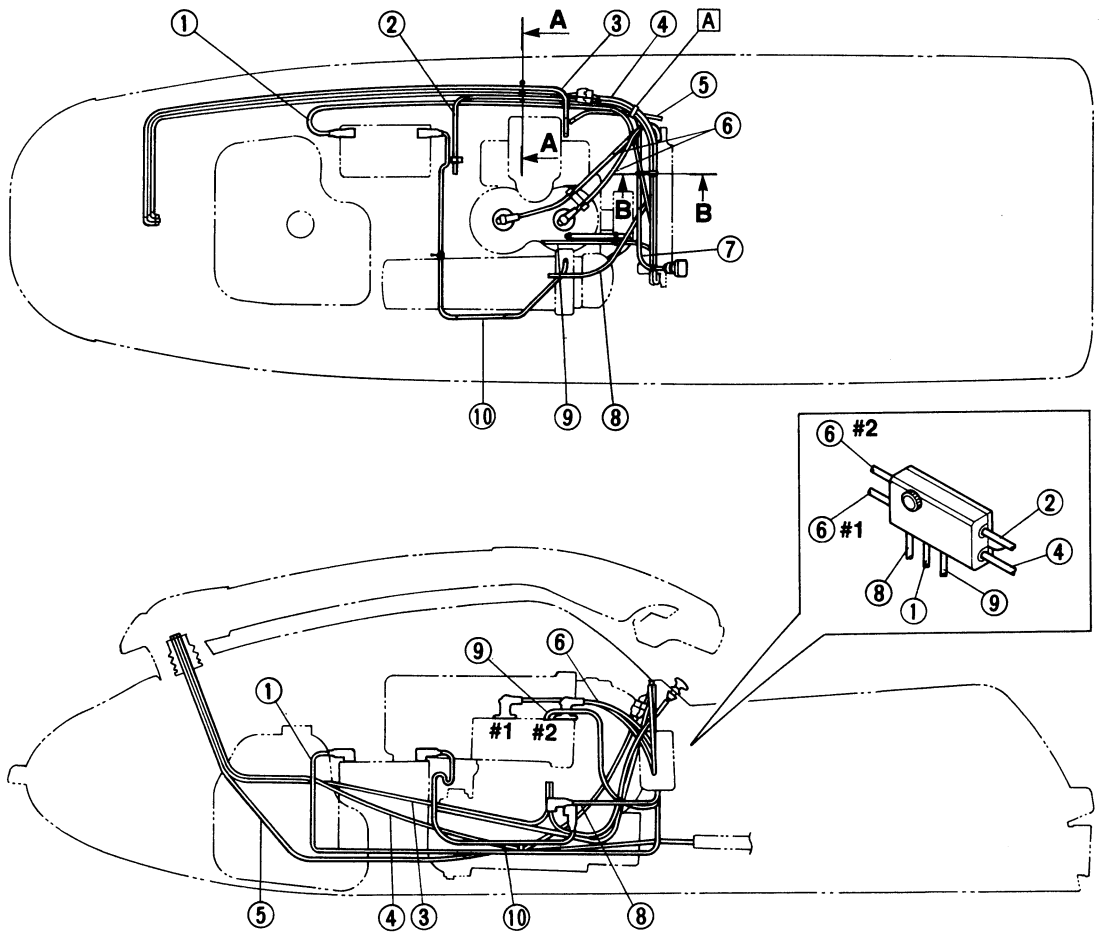
SJ

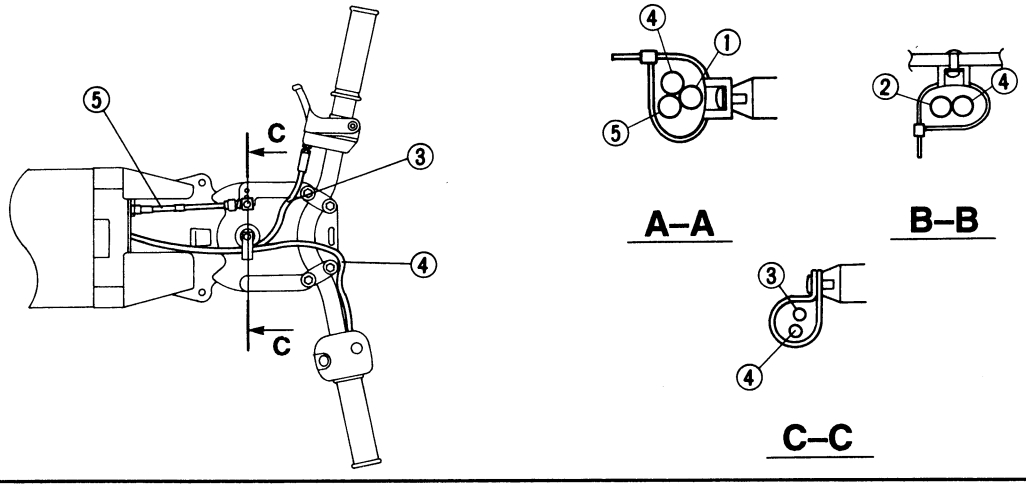


CABLE ROUTING DIAGRAM/ELECTRIC WIRING DIAGRAM

① Battery (Positive) lead
② Flywheel magneto lead
③ Throttle cable
④ Handle switch lead
⑤ Steering cable
⑥ High tension cord
⑦ Choke cable
⑧ Starter motor (Positive) lead
⑨ Thermo sensor lead
⑩ Battery (Negative) lead
[A] Clamp the choke cable, handle switch lead, battery (positive) lead and flywheel magneto lead with the band.

FX1





CHAPTER 3.
PERIODIC INSPECTION AND ADJUSTMENT

PERIODIC MAINTENANCE

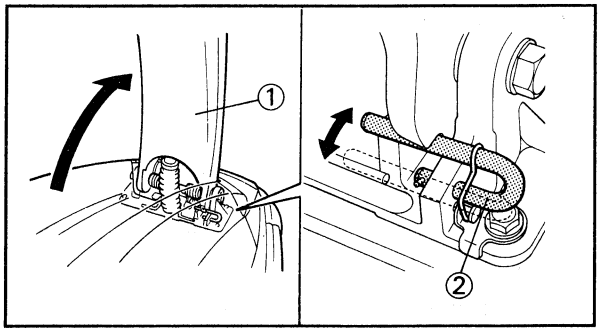
MAINTENANCE INTERVAL CHART

The following chart should be considered strictly as a guide to general maintenance intervals. Depending on operating conditions, the intervals of maintenance should be changed.

	Initial			Every	
	10Hrs	50Hrs	100Hrs	100Hrs	200Hrs
Engine:					
Tightness of bolts and nuts	○		○	○	
Bend, cracks and wear	○				○
Spark plug condition, cleaning and gap	○	○	○	○	
Engine alignment					○
Carburetor:					
Trolling speed adjustment	○		○	○	
Mixing adjustment	○		○	○	
Fuel:					
Fuel tank cleaning and inspection					○
Fuel filter cleaning and inspection	○	○	○	○	
Fuel filter replace					○
Fuel filler cap inspection			○	○	
Fuel system inspection			○	○	
Check valve inspection			○	○	
Control:					
Throttle lever adjustment			○	○	
Choke cable adjustment			○	○	
Steering cable adjustment			○	○	
Drive:					
Impeller inspection		○	○	○	
Impeller/housing clearance inspection			○	○	
Coupling rubber inspection					○
Electrical:					
Wire inspection	○	○	○	○	
Starting switch inspection	○	○	○	○	
Stop switch inspection	○	○	○	○	
Starting motor operation			○	○	
Battery maintenance	○	○	○	○	
Hull and hood:					
Tightness of bolts and nuts	○		○	○	
Damaged inspection	○	○	○	○	
Hatch lock inspection	○		○	○	
Waterseal rubber inspection	○		○	○	
Steering pole inspection	○		○	○	
Steering column inspection	○		○	○	
Lubrication:					
Carburetor throttle shaft			○	○	
Throttle cable			○	○	
Choke knob shaft			○	○	
Choke cable			○	○	
Steering column pivot shaft			○	○	
Steering pole pivot shaft			○	○	
Steering nozzle pivot bolts			○	○	
Steering cable			○	○	
Ball joint			○	○	
Bearing housing	○*1		○*2	○*2	

*1: Grease capacity 20~22 cm^3 (1.22~1.34 cu·in)

*2: Grease capacity 3~5 cm^3 (0.2~0.3 cu·in)



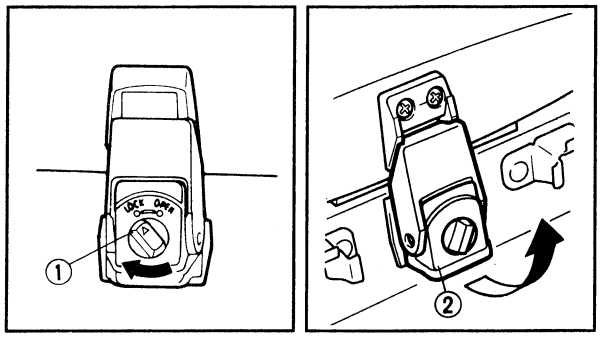
PREPARATION FOR MAINTENANCE

For SJ

1. Support:
   - Steering pole

NOTE:

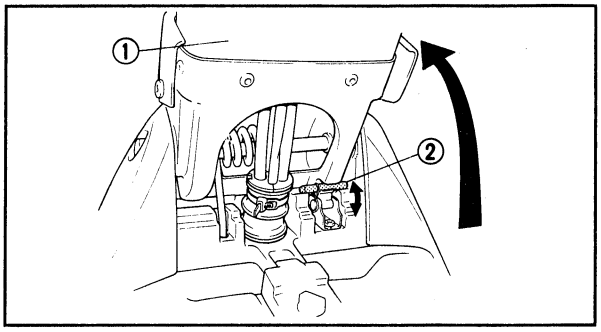
Lift the steering pole ① up and support it with the lock pin ②.



2. Remove:
   - Engine hood

NOTE:

Turn the latch knob ① to the "OPEN" position. Then lift the latch hook ② upward to unlatch the engine hood.

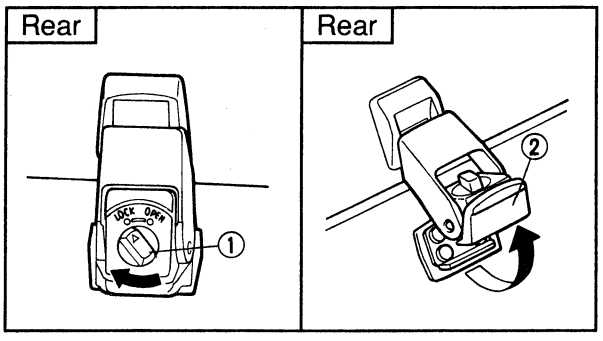


For FX1

1. Support:
   - Steering pole

NOTE:

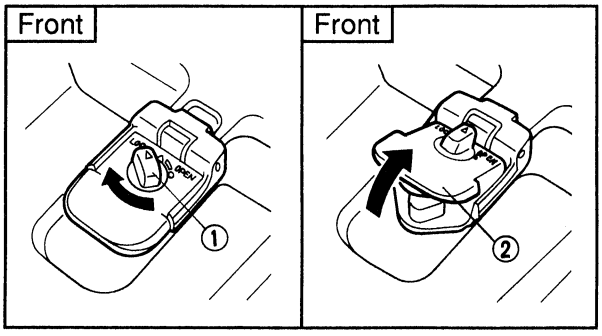
Lift the steering pole ① up and support it with the lock pin ②.



2. Remove:
   - Engine hood

NOTE:

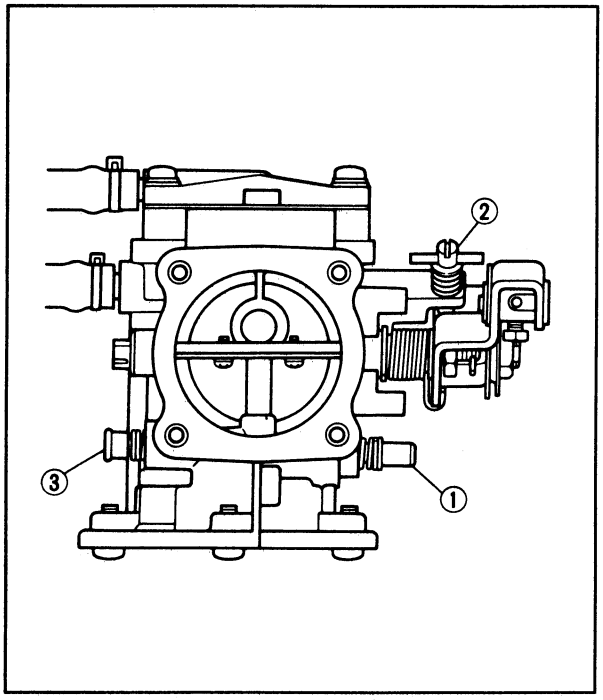
Turn the front and rear latch knobs ① to the "OPEN" position. Lift first the rear and then the front latch hooks ② upward to unlatch the engine hood. Then, lift the engine hood up and backward to remove it by holding the handgrips.



TROLLING SPEED ADJUSTMENT

1. Check:
   • Trolling speed
   Out of specification→Adjust.

Checking steps: (Vehicle in water) • Start the engine and allow it to warm up for a few minutes. • Attach the engine tachometer to spark plug lead.	
	**Engine tachometer:** **YU-8036-A/90890-06760**
• Measure the engine trolling speed.	
	**Trolling speed:** **1,250 ± 50 r/min.**



2. Adjust:
   • Trolling speed

Adjust steps: • Screw in the low speed screw ① until it is lightly seated. • Back out by the specified number of turns.	
	**Low speed screw:** **1-7/8 ± 1/4 (turns out)**
• Start the engine and allow it to warm up for a few minutes. • Turn the throttle stop screw ② in or out until specified speed is obtained.	
Turning in	**Increase trolling speed.**
Turning out	**Decrease trolling speed.**

3. Adjust:
   • High speed screw

Adjust steps:
• Screw in the high speed screw ③ until it is lightly seated.
• Back out by the specified number of turns.

High speed screw:
1-5/8 ± 1/4 (turns out)

FUEL SYSTEM INSPECTION

⚠ WARNING

- **Stop the engine, place the fuel cock to "OFF" and loosen the fuel filler cap before fuel system service.**
- **Remember the fire hazard associated with petrol (gasoline). Do not smoke, and keep away from open flames or sparks.**
- **When removing the fuel system parts hold it in a cloth and use care so that no fuel spills into the engine compartment.**