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YAMAHA MBK 

YQ50

'97

5BS-AE2

**SERVICE
MANUAL**

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**YQ50
SERVICE MANUAL
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2st Edition, November 1997
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reprinting or unauthorized use
without the written
permission of MBK INDUSTRIE
is expressly prohibited.**

NOTICE

This manual was written by the MBK INDUSTRIE primarily for use by YAMAHA and MBK dealers and their qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so it is assumed that persons using this book to perform maintenance and repairs on YAMAHA and MBK scooters have a basic understanding of the mechanical concepts and procedures inherent in scooter repair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

MBK INDUSTRIE is continually striving to improve all models manufactured. Modifications and significant changes in specifications or procedures will be forwarded to all Authorized YAMAHA and MBK dealers and will, where applicable, appear in future editions of this manual.

**DOCUMENTATION TECHNIQUE
MBK INDUSTRIE**

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation :



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



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

CAUTION:

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

NOTE:

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

HOW TO USE THIS MANUAL

CONSTRUCTION OF THIS MANUAL

This manual consists of chapters for the main categories of subjects. (See «illustrated symbols».)

- 1st title ① This is a chapter with its symbol on the upper right of each page.
- 2nd title ② This title appears on the upper of each page on the left of the chapter symbol. (For the chapter «Periodic inspection and adjustment» the 3rd title appears.)
- 3rd title ③ This is a final title.

MANUAL FORMAT

All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspections.

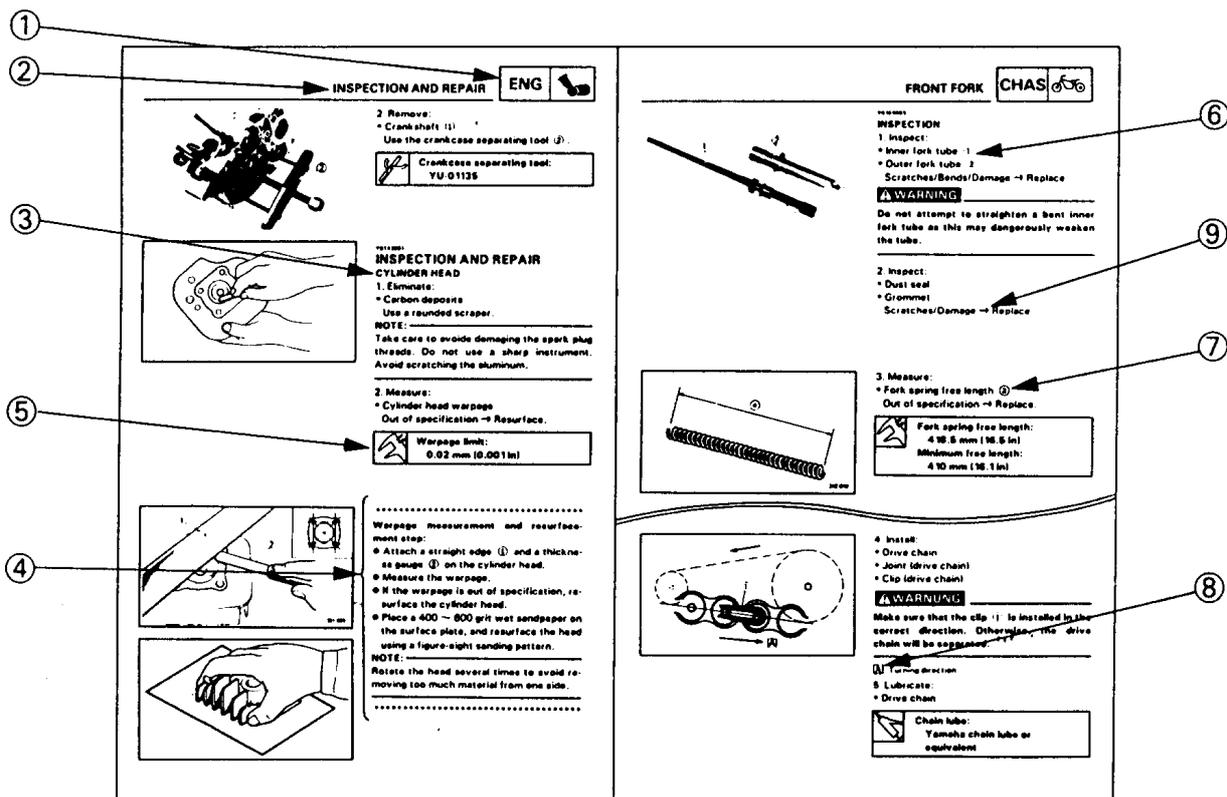
A set of particularly important procedure ④ is placed between a line of asterisks " * " with each step preceded by " • ".

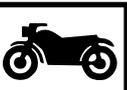
IMPORTANT FEATURES

- Data and a special tools are framed in a box preceded by a relevant symbol ⑤.
- An encircled numeral ⑥ indicates a part name, and an encircled alphabetical letter data for an alignment mark ⑦, the others being indicated by an alphabetical letter in a box ⑧.
- A condition of a faulty component will precede an arrow symbol and the course of action required the symbol ⑨.

EXPLODED DIAGRAM

Each chapter provides exploded diagrams are before each disassembly section for ease in identifying correct disassembly and assembly procedures.



<p>①</p> <p>GEN INFO </p>	<p>②</p> <p>SPEC </p>	
<p>③</p> <p>INSP ADJ </p>	<p>④</p> <p>ENG </p>	
<p>⑤</p> <p>CARB </p>	<p>⑥</p> <p>CHAS </p>	
<p>⑦</p> <p>ELEC </p>	<p>⑧</p> <p>TRBL SHTG </p>	
<p>⑨</p> 	<p>⑩</p> 	
<p>⑪</p> 	<p>⑫</p> 	
<p>⑬</p> 	<p>⑭</p> 	
<p>⑮</p> 		
<p>⑯</p> 	<p>⑰</p> 	<p>⑱</p> 
<p>⑲</p> 	<p>⑳</p> 	<p>㉑</p> 
<p>㉒</p> 	<p>㉓</p> <p>New</p>	

ILLUSTRATED SYMBOLS (REFER TO THE ILLUSTRATION)

Illustrated symbols ① to ⑧ are designed as thumb tabs to indicate the chapter's number and content.

- ① General information
- ② Specifications
- ③ Periodic inspection and adjustment
- ④ Engine
- ⑤ Carburetion
- ⑥ Chassis
- ⑦ Electrical
- ⑧ Troubleshooting

Illustrated symbols ⑨ to ⑮ are used to identify the specifications appearing in the text.

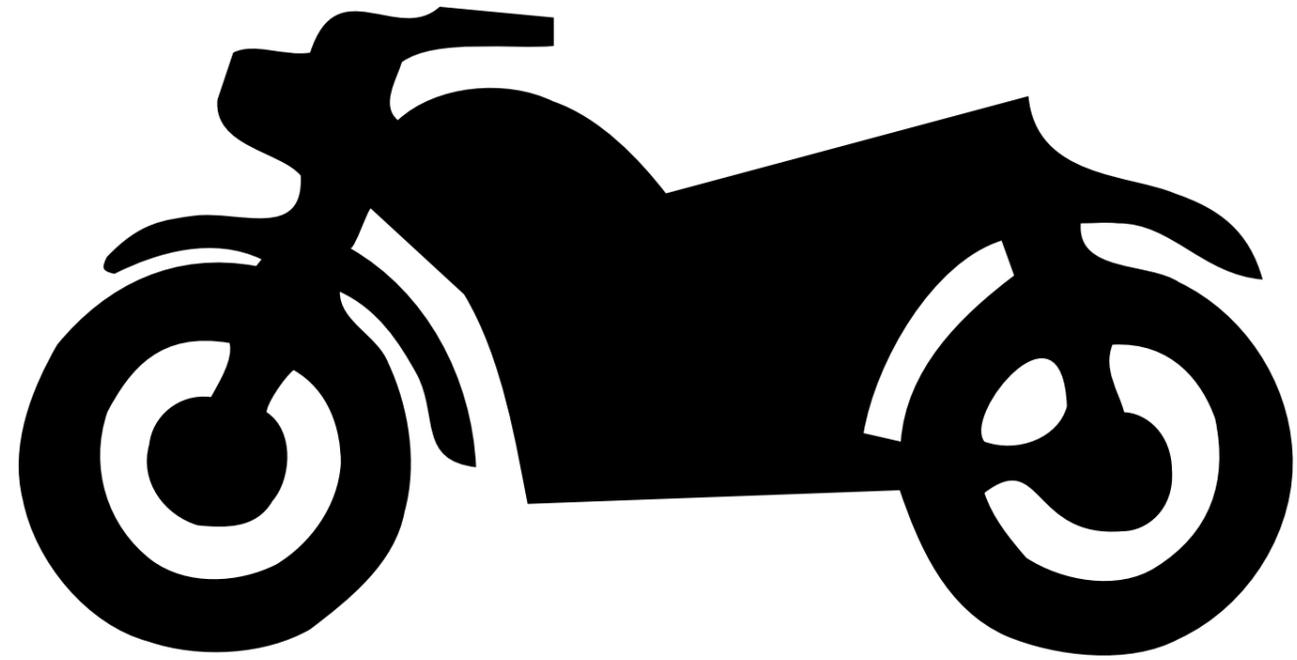
- ⑨ Filling fluid
- ⑩ Lubricant
- ⑪ Special tool
- ⑫ Tightening
- ⑬ Wear limit, clearance
- ⑭ Engine speed
- ⑮ Ω, V, A

Illustrated symbols ⑯ to ㉓ in the exploded diagram indicate grade of lubricant and location of lubrication point.

- ⑯ Apply engine oil
- ⑰ Apply gear oil
- ⑱ Apply molybdenum disulfide oil
- ⑲ Apply wheel bearing grease
- ⑳ Apply lightweight lithium-soap base grease
- ㉑ Apply molybdenum disulfide grease
- ㉒ Apply locking agent (THREADLOCK®)
- ㉓ Use new one

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	CARB 6
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	CHAS 7
ELECTRICAL	
	ELEC 8
TROUBLESHOOTING	
	TRBL SHTG 9



**GEN
INFO**

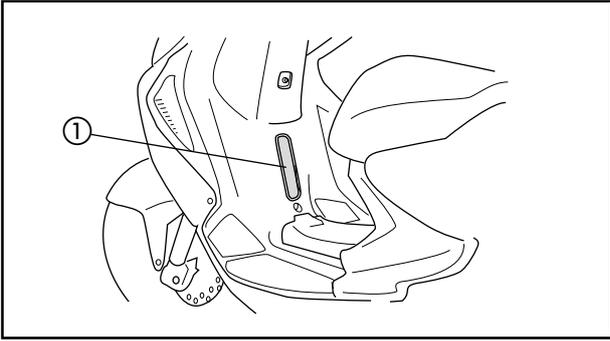
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**CHAPTER 1.
GENERAL INFORMATION**

SCOOTER IDENTIFICATION 1-1
 VEHICLE IDENTIFICATION NUMBER 1-1
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IMPORTANT INFORMATION 1-2
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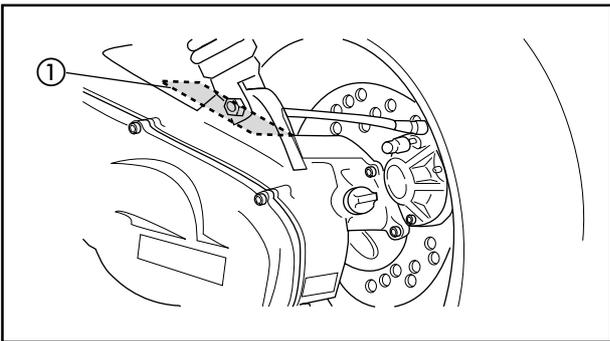


GENERAL INFORMATION
SCOOTER IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is stamped into the frame.

NOTE: _____
The vehicle identification number is used to identify your scooter and may be used to register your scooter with the licensing authority in your state.

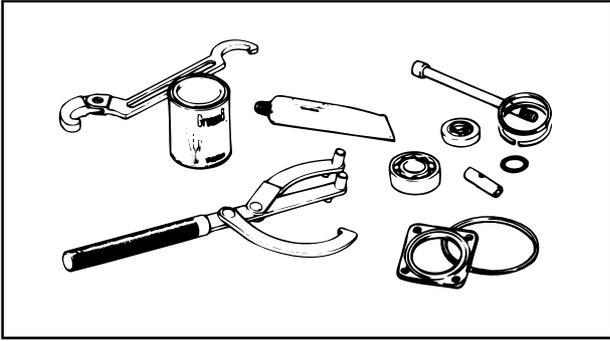


ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the crankcase.

NOTE: _____
The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.

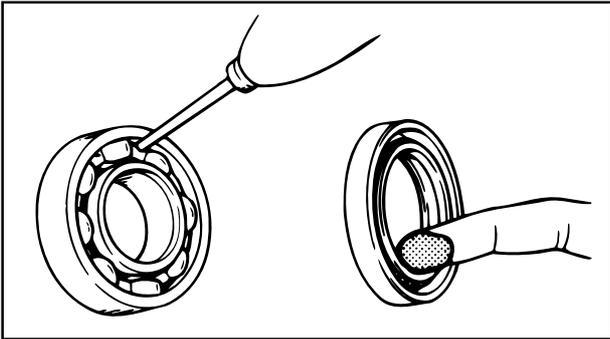
NOTE: _____
Designs and specifications are subject to change without notice.



IMPORTANT INFORMATION

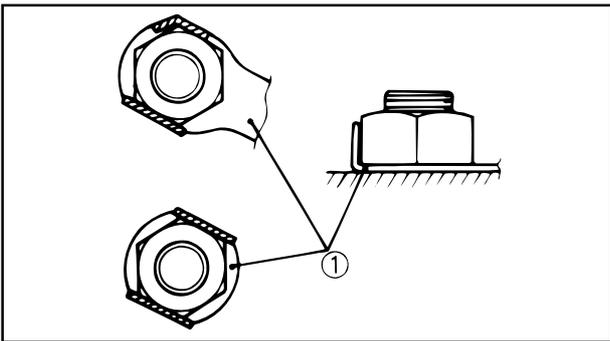
ALL REPLACEMENT PARTS

1. Use only genuine parts for all replacements. Use oil and/or grease recommended by MBK/YAMAHA for assembly and adjustment. Other brands may be similar in function and appearance, but inferior in quality.



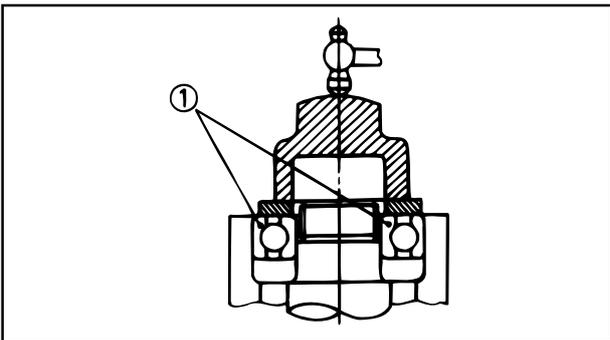
GASKETS, OIL SEALS, AND O-RINGS

1. All gaskets, seals and O-rings should be replaced when an engine is overhauled. All gaskets surfaces, oil seal lips and O-rings must be cleaned.
2. Properly oil all mating parts and bearing during reassembly. Apply grease to the oil seal lips.



LOCK WASHERS/PLATES AND COTTER PINS

1. All lock washers/plates ① and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.

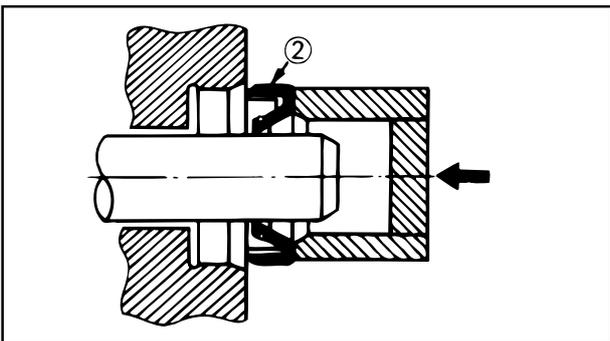


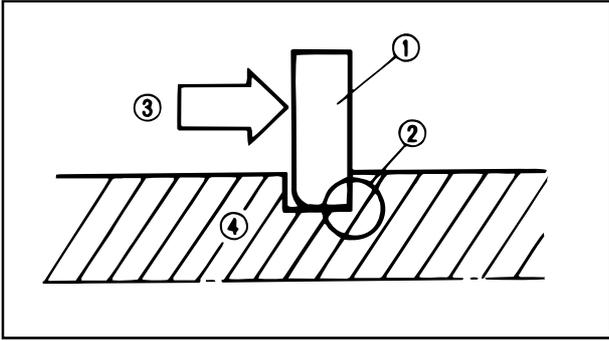
BEARINGS AND OIL SEALS

1. Install the bearing(s) ① and oil seal(s) ② with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of lightweight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.

CAUTION :

Do not use compressed air to spin the bearings dry. This causes damage to the bearing surfaces.





CIRCLIPS

1. All circlips should be inspected carefully before reassembly. Always replace piston pin clips once they have been removed. Replace bent circlips. When installing a circlip ① make sure that the sharp edge ② is positioned opposite to the thrust ③ it receives. See the sectional view.

④ Shaft

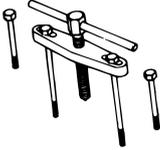
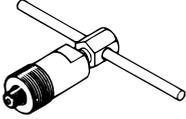
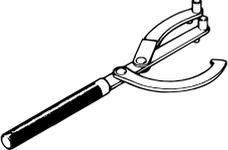
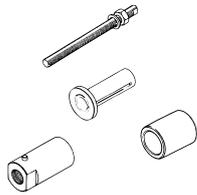
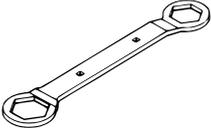
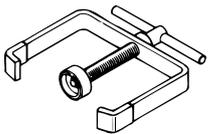
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SPECIAL TOOLS

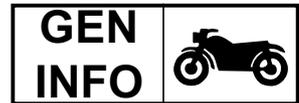
The following special tools are necessary for complete and accurate tune-up and assembly.

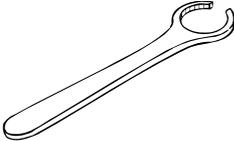
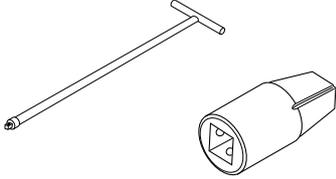
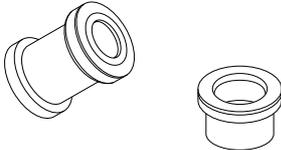
Use only the appropriate special tools; this will help prevent damage caused by the use of inappropriate tools or improvised techniques.

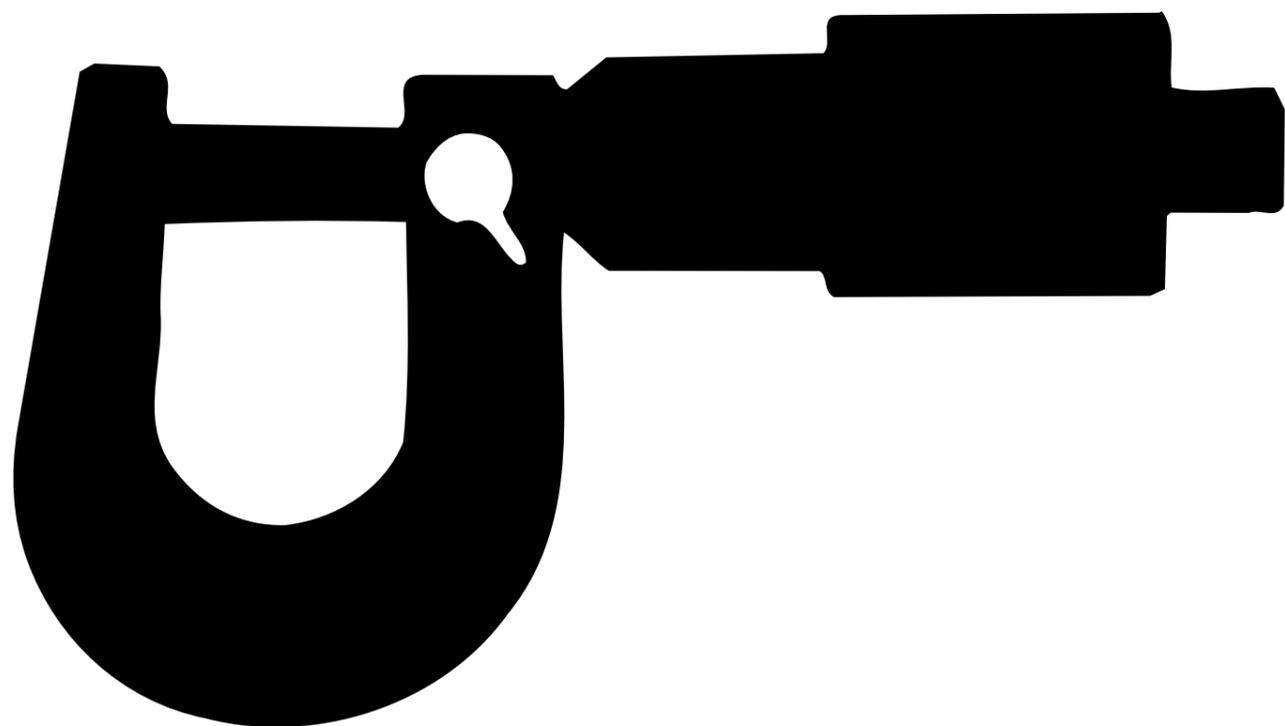
When placing an order, refer to the list provided below to avoid any mistakes.

Tool N°	Tool name/usage	Illustration
90890-01135	<p>Crankcase separating tool</p> <p>This tool is used to separate the crankcase and remove the crankshaft.</p>	
90890-01189	<p>Flywheel puller</p> <p>This tool is used to remove the flywheel magneto.</p>	
90890-01235	<p>Rotor holding tool</p> <p>This tool is used to remove the flywheel magneto.</p>	
<p>90890-01274 90890-01275 90890-01277 90890-01411</p>	<p>Crankshaft installer set.</p> <p>These tools are used to install the crankshaft.</p>	
90890-01348	<p>Locknut wrench</p> <p>This tool is used when removing or installing the secondary sheave nut.</p>	
90890-01701	<p>Sheave holder</p> <p>This tool is used to hold the secondary sheave when removing or installing the nut.</p>	
90890-01337	<p>Clutch spring holder.</p> <p>This tool is used for compressing the spring of the secondary sheave when removing the nut.</p>	

SPECIAL TOOLS



Tool N°	Tool name/usage	Illustration
9079Q-02218	<p>Ring nut wrench.</p> <p>This tool is used to loosen and tighten the steering ring nut.</p>	
90890-01326 90890-1294	<p>T-handle Damper rod holder</p> <p>These tools are used for holding the damper rod holder when removing or installing the damper rod holder.</p>	
90890-01184 90890-01186	<p>Fork seal driver weight. Fork seal driver attachment (ø27)</p> <p>These tools are used when installing the fork seals.</p>	
90890-03112	<p>Pocket Tester</p> <p>This instrument is invaluable for checking the electrical system.</p>	
90890-03113	<p>Engine tachometer.</p> <p>This tool is needed for detecting the engine rpm.</p>	
90890-06754	<p>Ignition checker.</p> <p>This instrument is necessary for checking the ignition system components.</p>	



SPEC

2

CHAPTER 2. SPECIFICATIONS

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CHASSIS	2-6
ELECTRICAL	2-7
CABLE ROUTING	2-8



SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	YQ50
Dimensions:	
Overall length	1.743 mm
Overall width	690 mm
Overall height	1.170mm
Seat height	828 mm
Wheelbase	1.256 mm
Minimum ground clearance	185 mm
Basic weight:	
With oil and full fuel tank	97 kg
Minimum turning radius :	1.800 mm
Engine:	
Type	Liquid-cooled 2-stroke, gasoline torque induction.
Cylinder arrangement	Single cylinder, horizontal
Displacement	49 cm ³
Bore x stroke	40 x 39.2 mm
Compression ratio	7.9 : 1 (F)(B)(P)(E)(I) 8 : 1 (D)(NL)(CHE)
Starting system	Electric and kick starter
Lubrication system:	Separate lubrication (Yamaha Autolube)
Oil type or grade:	
Engine oil:	Semi-synthetic, in accordance with the API TC TSC 3 Standard.
Transmission oil	SAE 10W30 type SE motor oil
Oil capacity:	
Transmission oil:	
Periodic oil change	0.11 L
Total amount	0.13 L
Radiator capacity	
Total amount (Including all routes)	1.2 L
Air filter:	Wet type element
Fuel:	
Type	Regular unleaded gasoline with a research octane number of 91 or higher.
Tank capacity	7.0 L

GENERAL SPECIFICATIONS

SPEC



Model	YQ50																											
Carburetor: Type/Manufacturer	PHBN12HS / DELL'ORTO																											
Spark plug: Type/Manufacturer Gap	BR8HS/NGK 0.5 ~ 0.7 mm																											
Clutch type:	Dry, centrifugal automatic																											
Transmission: Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Transmission Operation	Helical gear 52/13 (4.000) Spur gear 43/14 (3.071) V-belt Automatic																											
Chassis: Frame type Caster angle Trail	Steel tube underbone 27° 90 mm																											
Tire: Type Size Manufacturer/type Tire pressure (cold tire)	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%; text-align: center;">Front</td> <td style="width: 55%;">Tubeless</td> </tr> <tr> <td></td> <td style="text-align: center;">Rear</td> <td>130/60-13</td> </tr> <tr> <td></td> <td style="text-align: center;">Rear</td> <td>140/60-13</td> </tr> <tr> <td></td> <td style="text-align: center;">Front</td> <td>PIRELLI / SL36</td> </tr> <tr> <td></td> <td style="text-align: center;">Rear</td> <td>MICHELIN / BOPPER</td> </tr> <tr> <td></td> <td style="text-align: center;">Rear</td> <td>PIRELLI / SL36</td> </tr> <tr> <td></td> <td style="text-align: center;">Rear</td> <td>MICHELIN / BOPPER</td> </tr> <tr> <td></td> <td style="text-align: center;">Front</td> <td>150 kPa (1.50 kg/cm²)</td> </tr> <tr> <td></td> <td style="text-align: center;">Rear</td> <td>150 kPa (1.50 kg/cm²)</td> </tr> </table>		Front	Tubeless		Rear	130/60-13		Rear	140/60-13		Front	PIRELLI / SL36		Rear	MICHELIN / BOPPER		Rear	PIRELLI / SL36		Rear	MICHELIN / BOPPER		Front	150 kPa (1.50 kg/cm ²)		Rear	150 kPa (1.50 kg/cm ²)
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Brake: Front brake type Operation Rear brake type Operation	Disc brake Right hand operation Disk brake Left hand operation																											
Suspension: Front Rear	Telescopic fork Unit swing																											
Shock absorber: Front Rear	Coil spring/Oil damper Coil spring/Oil damper																											
Wheel travel: Front wheel travel Rear wheel travel	80 mm 72 mm																											

GENERAL SPECIFICATIONS

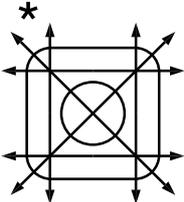
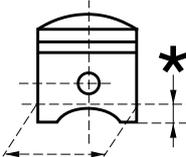
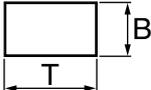
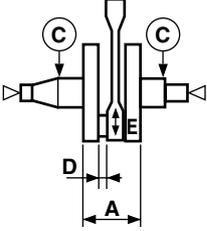
SPEC



Model	YQ50
Electrical: Ignition system Charging system Battery type/model Battery capacity	CDI Flywheel magneto GM4-3B, YB4L-B, FB4L-B 12V 4AH
Headlight type:	Bulb
Bulb wattage / quantity: Headlight Auxiliary light Taillight/brake light Flasher light Front Rear Meter light	12V 35W/35W x 1 12V 5W x 1 12V 5W/21W x 1 12V 21W x 2 12V 10W x 2 12V 1.2W x 3
Warning lights wattage / quantity: "OIL" "HIGH BEAM" "TURN" "Cooling warning light"	12V 1.2W x 1 12V 1.2W x 1 12V 1.2W x 1 12V 1.2W x 1

MAINTENANCE SPECIFICATIONS

ENGINE

Model	YQ50
<p>Cylinder head: Warp limit</p> 	<p>0.02 mm * Lines indicate straight edge measurements.</p>
<p>Cylinder: Bore size <Limit> Taper limit</p>	<p>39.993 ~ 40.012 mm <40.1 mm> 0.05 mm</p>
<p>Piston: Piston size Measuring point *</p>  <p>Piston clearance <Limit> Piston pin bore size</p>	<p>39.957 ~ 39.977 mm 5 mm 0.029 ~ 0.042 mm <0.1 mm> 10.004 ~ 10.019 mm</p>
<p>Piston pin: Outside diameter</p>	<p>9.996 ~ 10.000 mm</p>
<p>Piston ring: Sectional sketch (BxT)/Type: Top ring 2nd ring End gap (installed): Top ring 2nd ring Side clearance (installed): Top ring 2nd ring</p> 	<p>1.5 ~ 1.8 mm 1.5 ~ 1.8 mm 0.15 ~ 0.35 mm 0.15 ~ 0.35 mm 0.03 ~ 0.05 mm 0.03 ~ 0.05 mm</p>
<p>Crankshaft:</p>  <p>Crank width "A" Runout limit "C" Connecting rod big end side clearance "D" Big end radial clearance "E"</p>	<p>37.90 ~ 37.95 mm 0.03 mm 0.2 ~ 0.5 mm 0.004 ~ 0.017 mm</p>

MAINTENANCE SPECIFICATIONS

SPEC



Model	YQ50
Automatic centrifugal clutch: Clutch shoe thickness <Wear limit> Clutch shoe spring free length Clutch housing inside diameter <Wear limit> Clutch-in revolution Clutch-stall revolution	2.0 mm <1.0 mm> 29.9 mm 107.0 mm 107.4 mm 3.950 ~ 4.450 r.p.m. 6.900 ~ 7.700 r.p.m.
V-belt: Width <Wear limit>	16.5 mm <15.7 mm>
Transmission: Main axle runout limit Drive axle runout limit	0.08 mm 0.08 mm
Kick starter: Type Kick clip tension	Ratchet type 0.15 ~ 0.25 kg
Carburetor: I.D mark Main jet (M.J) Main air jet (M.A.J) Jet needle (J.N) Needle jet (N.J) Cutaway (C.A) Pilot jet (P.J) Bypass 1 (B.P.1) Air screw (A.S) Valve seat size (V.S) Starter jet (G.S.1) Engine idle speed	DELLORTO PHBN 12 HS #86 (F)(B)(P)(I)(E) #85 (CHE) #74 (NL) ø1.5 A21 - 2/5 (F)(B)(P)(I)(E) A12 - 3/5 (D)(CHE) A20 - 3/5 (NL) 210 GA (F)(B)(P)(I)(E)(D) 209 GA (CHE) 208 GA (NL) 3.0 4.0 (CHE) #36 #34 (CHE) 0.8 1 3/8 ± 1/8 (F)(B)(P)(I)(E) 1 3/4 ± 1/8 (D) 1 5/8 ± 1/8 (NL) 2 ± 1/8 (CHE) 1.2 #45 1600 ~ 2000 rpm
Reed valve: Valve stopper height Reed valve clearance	6.0 ~ 6.4 mm Less than 0.2 mm
Lubrication system: Stroke Bore	Autolube pump 2.62 mm (F)(B)(P)(I)(E) 2.5 mm (D)(NL)(CHE) 0.5 mm

MAINTENANCE SPECIFICATIONS

SPEC



CHASSIS

Model	YQ50
Steering system: Steering bearing type No/Size of steel balls: <div style="text-align: right; margin-right: 20px;"> Upper Lower </div>	Ball bearing 15 pcs (4.75 mm) 15 pcs (4.75 mm)
Front suspension: Front fork travel Spring rate (K1) Stroke (K1) Optional spring	80 mm 5.7 N/mm 0 ~ 80 mm No
Rear suspension: Shock absorber travel Spring free length Spring fitting length Spring rate (K1) <div style="text-align: right; margin-right: 20px;">(K2)</div> Stroke (K1) <div style="text-align: right; margin-right: 20px;">(K2)</div> Optional spring	60 mm 234 mm 199.5 mm 28 N/mm 35 mm 0 ~ 92 mm 92 ~ 115 mm No
Wheels: Front wheel type Rear wheel type Front wheel size/Material Front wheel size/Material	Cast wheel Cast wheel MT 3.00 x13 / Aluminium MT 3.50 x13 / Aluminium
Rim runout limit: Front Rear	1.0 mm 1.0 mm
Front disc brake: Type Diameter and thickness Pad thickness <Wear limit> Master cylinder inside diameter Caliper cylinder inside diameter Brake fluid type	Single disc 190 x 3.5 mm 4.5 mm <2.0 mm> 11 mm 30 mm DOT# 3 or DOT#4
Rear disk brake: Type Diameter and thickness Pad thickness <Wear limit> Master cylinder inside diameter Caliper cylinder inside diameter Brake fluid type	Single disc 190 x 3.5 mm 4.5 mm <2.0 mm> 11 mm 30 mm DOT# 3 or DOT#4
Front brake lever freeplay: Rear brake lever freeplay:	10 ~ 20 mm 10 ~ 20 mm

MAINTENANCE SPECIFICATIONS

SPEC



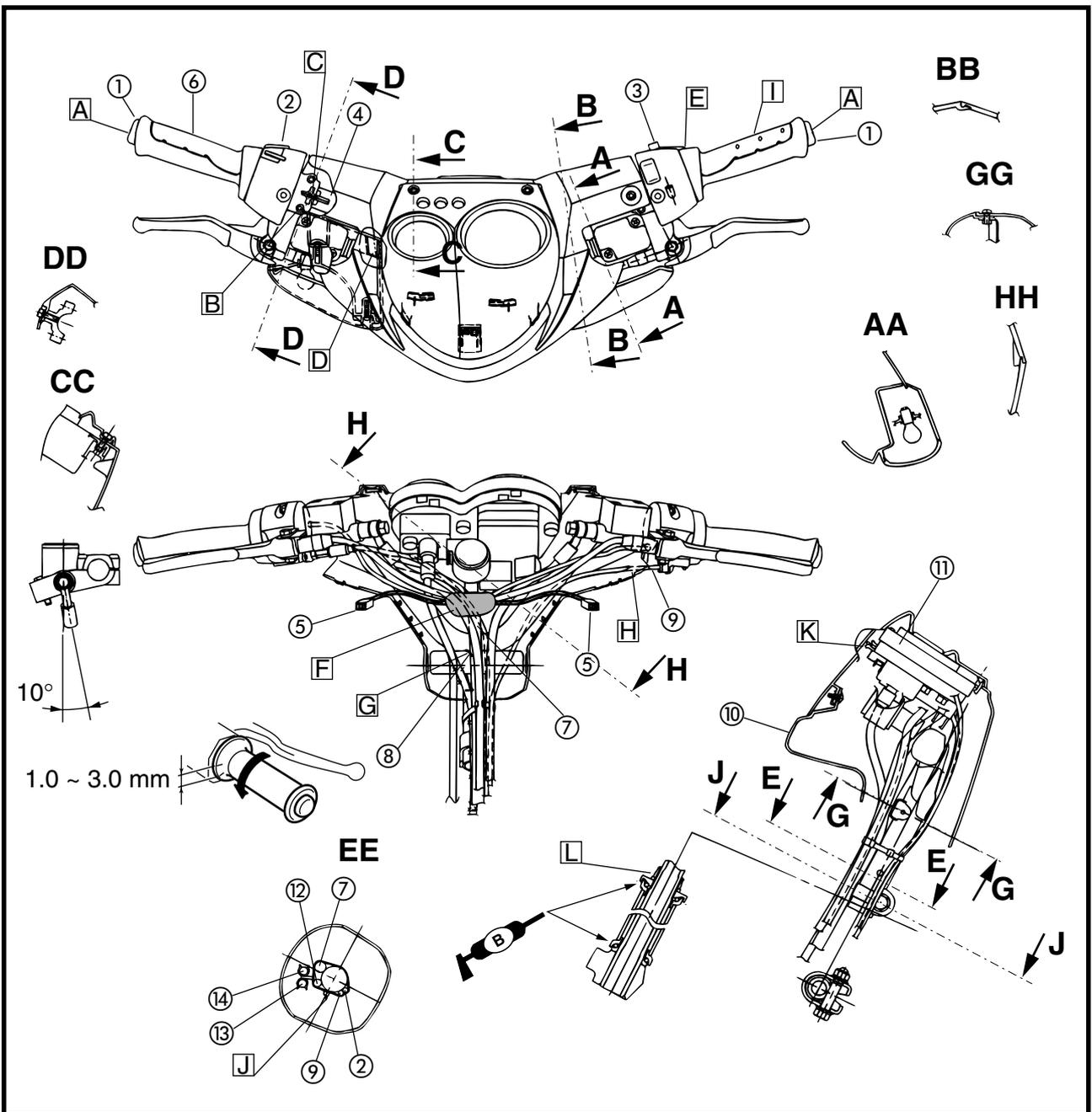
ELECTRICAL

Model	YQ50
Voltage:	12 V
Ignition system: Ignition timing (B.T.D.C.)	14° at 5.000 r/min
CDI: Pickup coil resistance (color) Source coil resistance (color)	400 ~ 600 Ω at 20°C (68°F) (White/Red-Black) 640 ~ 960 Ω at 20°C (68°F) (Black/Red-Black)
Ignition coil: Minimum spark length Primary coil resistance Secondary coil resistance	6 mm 0.56 ~ 0.84 Ω at 20°C (68°F) 5.68 ~ 8.52 Ωk at 20°C (68°F)
Spark plug cap: Resistance	5 kΩ at 20°C (68°F)
CDI Magneto: Lighting coil resistance Lighting coil resistance	0.32 ~ 0.48 Ω at 20°C (68°F)(Yellow/Red-Black) 0.48 ~ 0.72 Ω at 20°C (68°F)(White-Black)
Voltage regulator/Rectifier: Type No load regulated voltage Capacity Withstand voltage	Semi-conductor, short-circuit type 13 ~ 14 V 8 A 600 V
Battery: Specific gravity	1.280
Starter motor: Out put Armature coil resistance Brush overall length <Wear limit> Brush spring pressure Commutator diameter <Wear limit> Mica undercut (depth)	0.14 kW 0.06 ~ 0.08 Ω at 20°C (68°F) 3.9 mm 0.9 mm 563 ~ 844 g 15.8 mm 14.8 mm 1.15 mm
Starter relay: Amperage rating Coil winding resistance	20 A 54 ~ 66 Ω at 20°C (68°F)
Horn: Maximum amperage	2.5 A
Flasher relay: Type Self canceling device Flasher frequency	Condenser type No 80 ~ 160 cycle/min
Fuel gauge: Sender unit resistance (full) (empty)	1.5 ~ 7.5 Ω 90 ~ 100 Ω
Contact braker: Main fuse	7,5 A x 1

CABLE ROUTING

- ① Handlebar end grip
- ② Right handlebar switch
- ③ Left handlebar switch
- ④ Handlebar
- ⑤ Flasher harness
- ⑥ Right handlebar grip
- ⑦ Wireharness
- ⑧ Wireharness cord
- ⑨ Starter (choke) cable
- ⑩ Front handlebar cover
- ⑪ Speedometer case
- ⑫ Speedometer cable
- ⑬ Front brake hose
- ⑭ Rear brake hose

- A** Push the end grip against the handlebar and tighten to 0.6 ~ 0.8 m.kg.
- B** Tighten the front screw first.
- C** Apply the left switch handle against the handlebar.
- D** Hole for the front flasher harness.
- E** Install the right handlebar grip in regard to the right handlebar switch.
- F** Group the connexions here.
- G** Attach the wiring harness cord on the handlebar bracket.
- H** Pass the starter (choke) through the handle cover.
- I** Glue the left handlebar grip.
- J** Cut the band at 5 mm of his end.
- K** Clip the front handlebar cover on the speedometer case.
- L** Front steering assembly:
 - Tighten the ring nut in order to eliminate all play.
 - Take care of installing the special washer on the steering ball race: teeth against teeth.

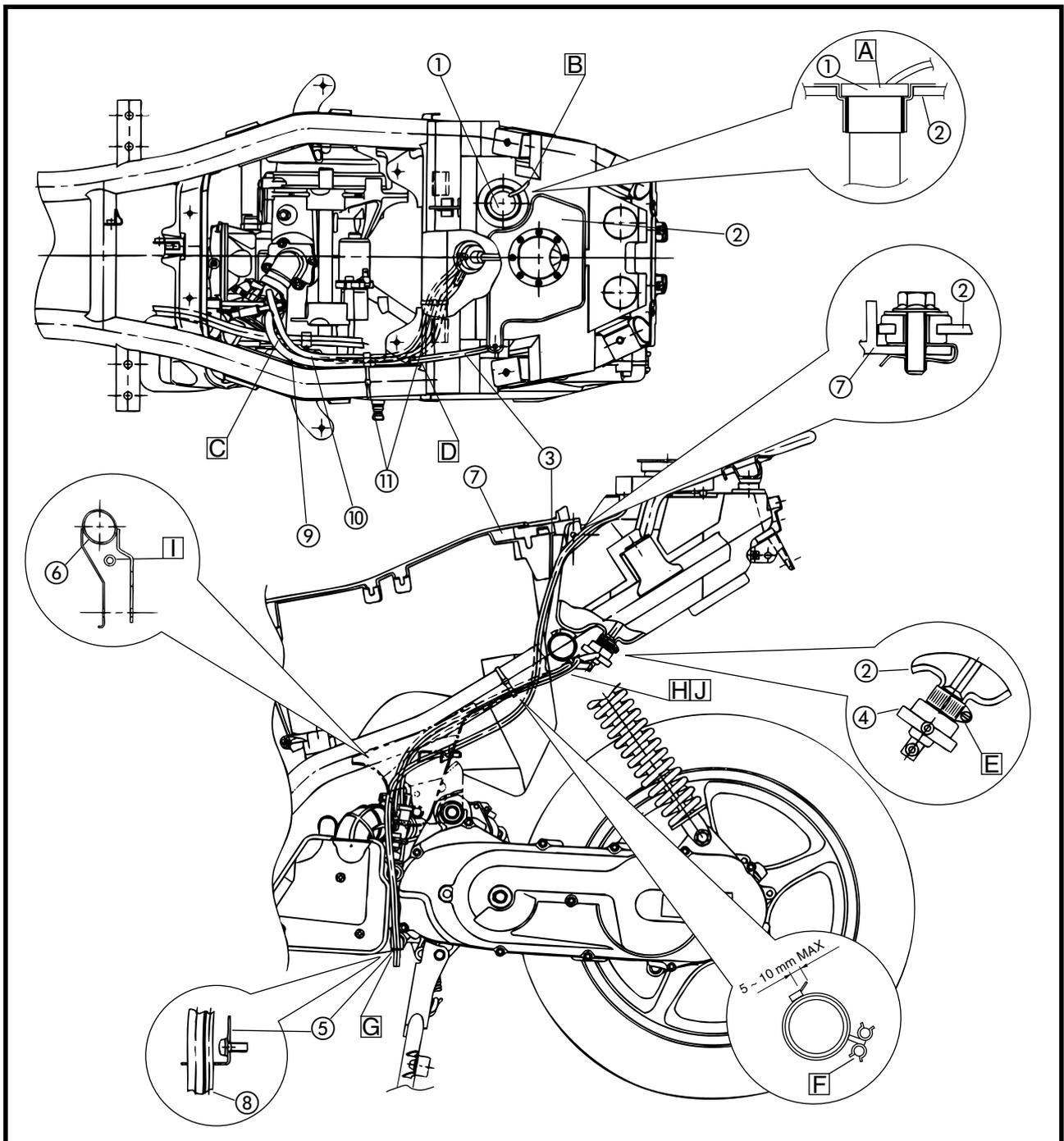




CABLE ROUTING

- ① Fuel sender
- ② Fuel tank
- ③ Fuel overflow pipe
- ④ Fuel cock
- ⑤ Pipe bracket
- ⑥ Frame
- ⑦ Trunk
- ⑧ Carburetor drain hose
- ⑨ Fuel pipe
- ⑩ Suction pipe
- ⑪ Bands

- A Insert the fuel sender completely.
- B Turn the fuel sender so that the cable points toward.
- C Pass the fuel lines above the rear brake hose.
- D Pass the fuel overflow pipe in the trunk slot.
- E Push the fuel cock (without turning it) completely in the tank and screw the collar.
- F Install the hoses facing to the inside of the frame.
- G Pass the fuel tank pipe overflow and carburetor drain pipes in the bracket.
- H Attach the fuel and suction pipes in the bands.
- I Pass the fuel overflow pipe inside the frame.
- J Install the fuel pipes without lubricating them.

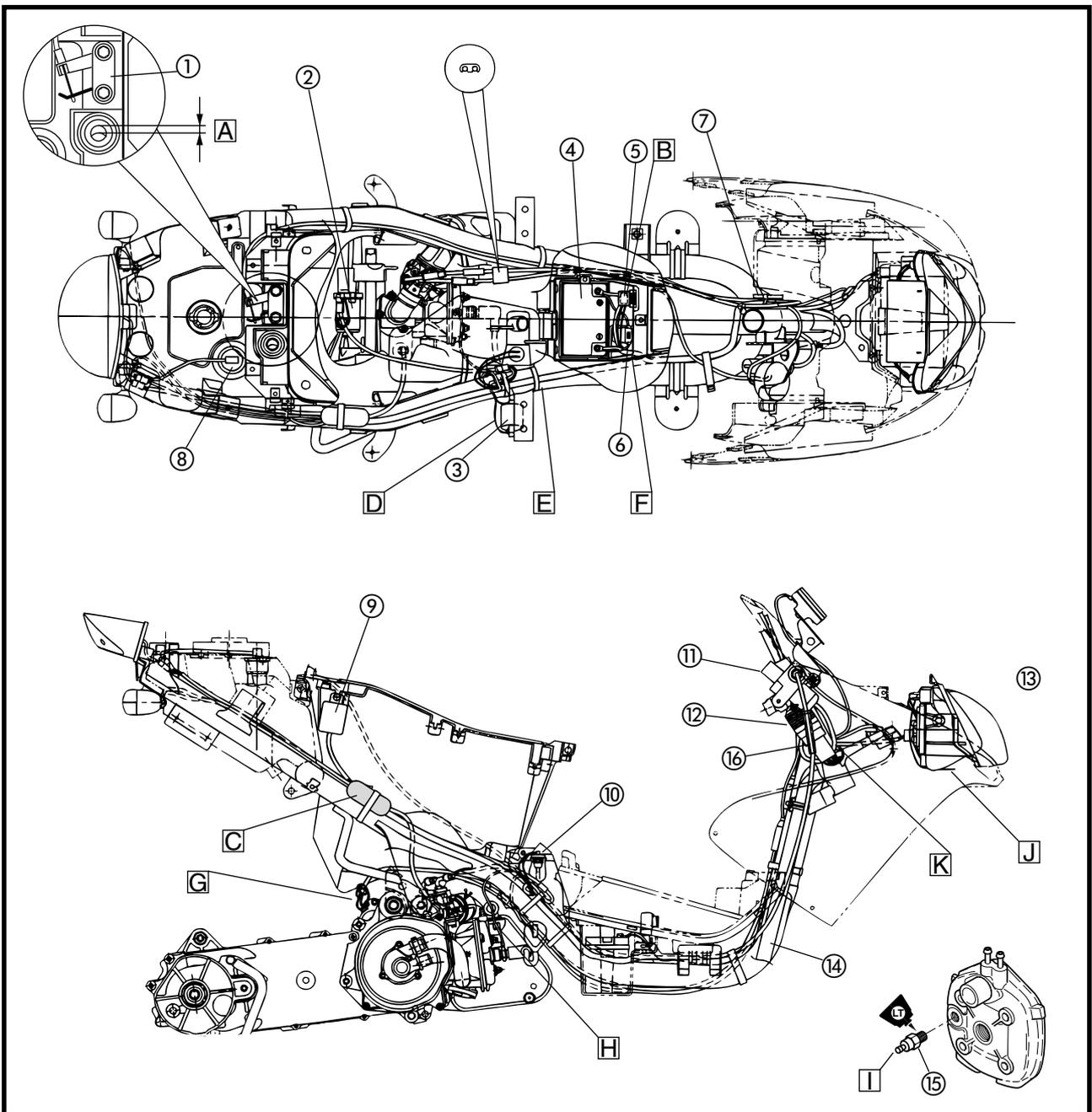


CABLE ROUTING



- ① Seat lock
- ② Starter motor
- ③ Ignition coil
- ④ Battery
- ⑤ Starter relay
- ⑥ Fuse housing
- ⑦ Rear brake hose
- ⑧ Fuel sender
- ⑨ CDI unit
- ⑩ Oil lever gauge
- ⑪ Main switch
- ⑫ Rectifier/regulator
- ⑬ Head light
- ⑭ Water hose
- ⑮ Water temperature sender
- ⑯ Seat lock cable adjuster

- A Set the seat lock adjuster so that there is a gap between 8 ~ 9 mm at the seat lock aperture.
- B Install the starter relay on the footrest board.
- C Group the connections here.
- D Turn the connectors towards.
- E Push the wiring inside.
- F Pass the wiring harness through the footrest board.
- G Turn the ground lead one turn around the starter motor leads.
- H The water temperature sender lead must go straight to the wiring harness.
- I Put one drop of Loctite 542 on the tread before installing the water temperature sender.
- J Install the head light protector correctly.
- K Pass the main switch lead between the rectifier/regulator and the steering head pipe.



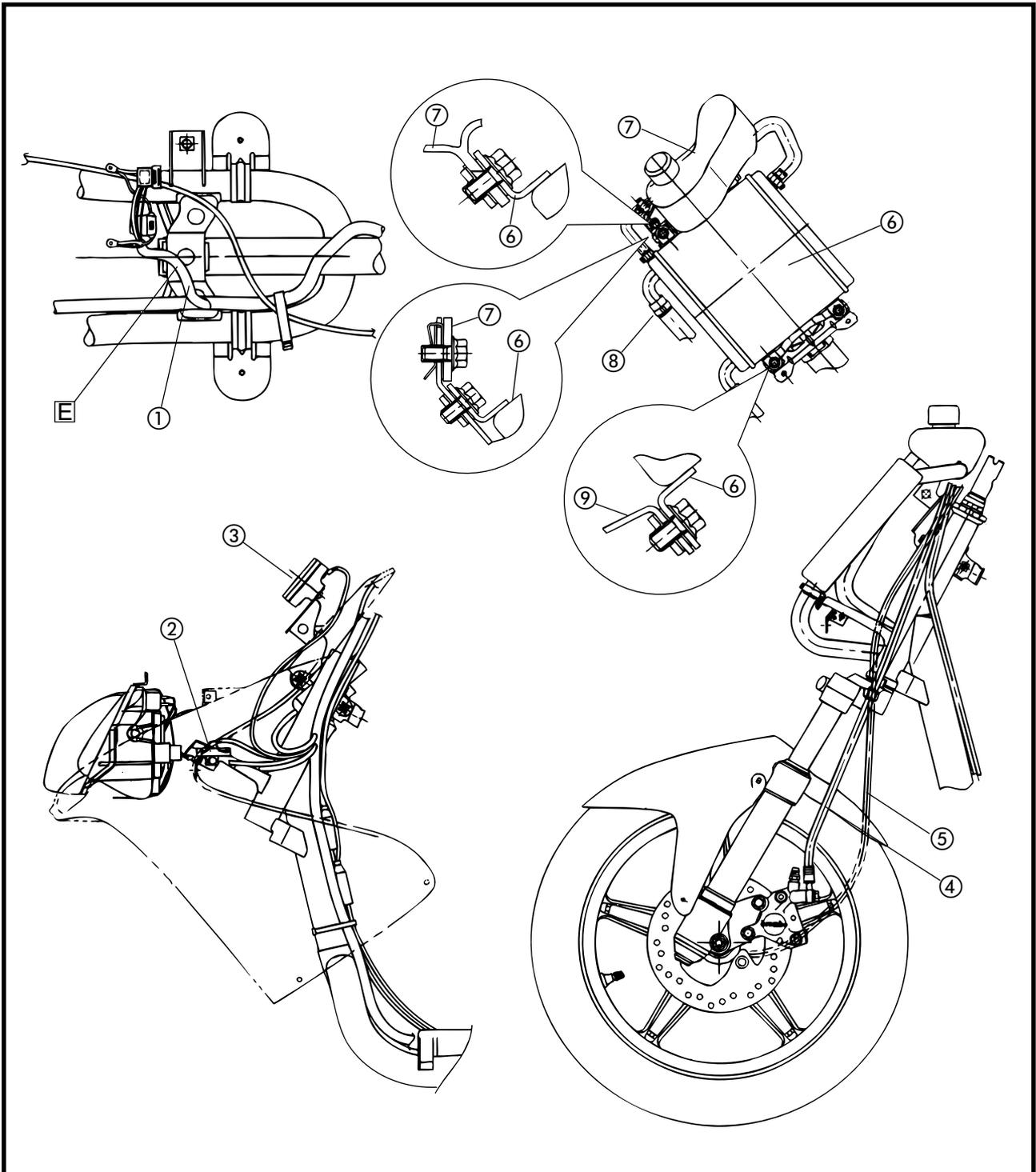
CABLE ROUTING

SPEC



- ① Wiring harness
- ② Resistor
- ③ Horn
- ④ Front brake hose
- ⑤ Speedometer cable
- ⑥ Radiator
- ⑦ Water tank
- ⑧ Clamps
- ⑩ Frame

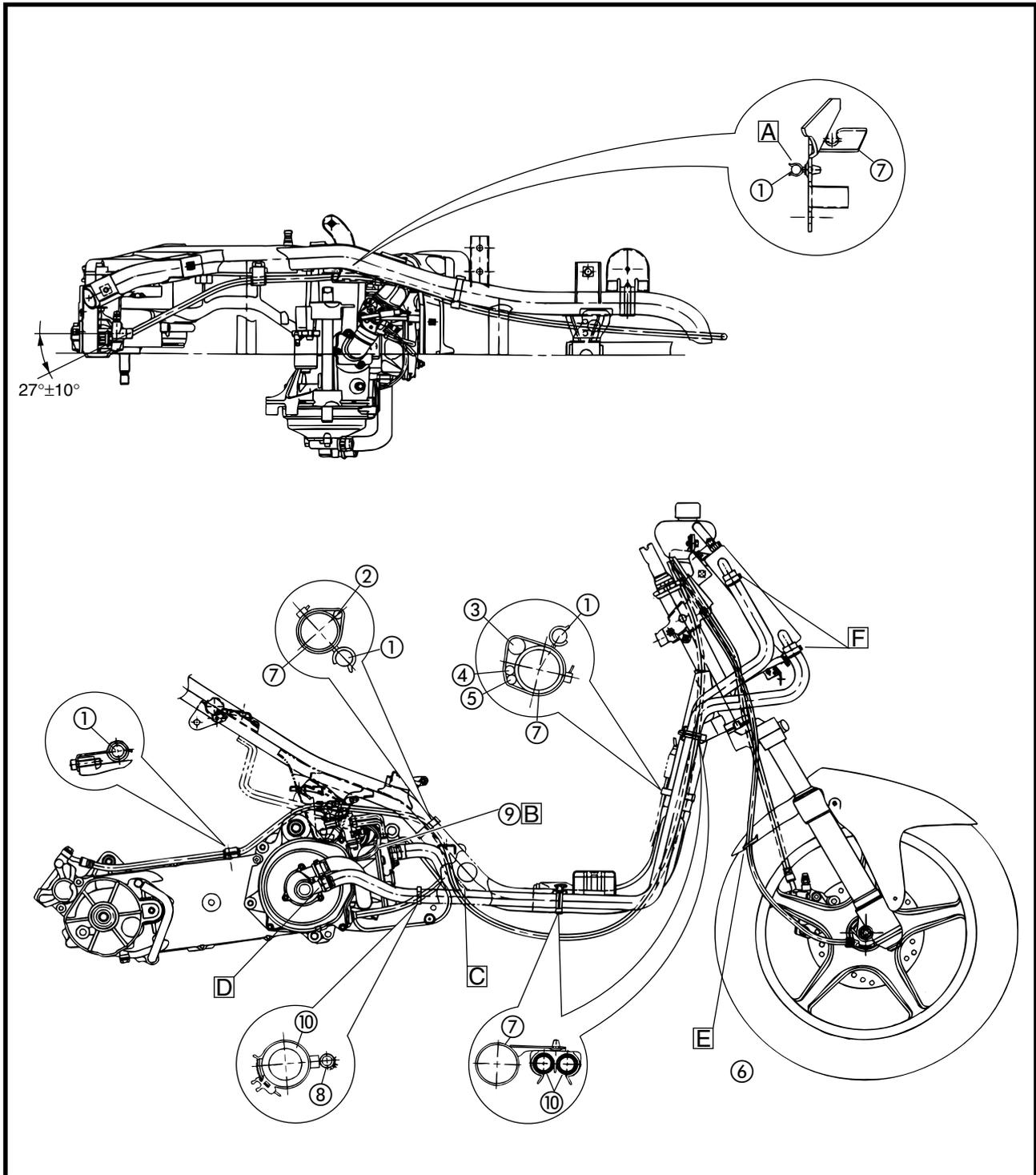
- A Install the wiring harness in the middle of the frame.
- B Set the resistor at 45°0/+30' on the frame bracket.
- C Clip the front brake hose on the front fork bracket.
- D Install the 8 clamps just beside the marks at the end side of the hoses.



CABLE ROUTING

SPEC	
-------------	-------------------------------------------------------------------------------------

- ① Rear brake hose
 - ② Seat lock cable
 - ③ Wire harness
 - ④ Throttle cable
 - ⑤ Starter (choke) cable
 - ⑥ Speedometer cable
 - ⑦ Frame
 - ⑧ Oil hose (tank/oil pump)
 - ⑨ Oil hose (oil pump/carburetor)
 - ⑩ Water hoses
- A** Install the rear brake hose in the clip.
 - B** Install the oil delivery hose (from oil pump to carburator) under the water hose.
 - C** Pass the rear brake hose under the frame reinforcement tube.
 - D** Align the mark on the water hose in front of the mark in the water pump housing.
 - E** Pass the speedometer cable through the slot of the front fender.
 - F** Install the 8 clamps just beside the marks at the end side of the hoses.





CHK



ADJ



CHAPTER 3. PERIODIC INSPECTION AND ADJUSTMENT

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PERIODIC INSPECTION AND ADJUSTMENT

INTRODUCTION

This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

PERIODIC MAINTENANCE/LUBRICATION INTERVALS

Unit : Km(miles)

	ITEM	ROUTINE	BREAK-IN 1,000(600)	EVERY	
				3,000 (2,000)or 6 months	6,000 (4,000)or 12 months
1	Spark plug	<ul style="list-style-type: none"> • Check condition. • Clean or replace if necessary. 	○	○	○
2	Air filter	<ul style="list-style-type: none"> • Clean. • Replace if necessary. 		○	○
3	* Carburetor	<ul style="list-style-type: none"> • Check idle speed/choke operation. • Adjust if necessary. 	○		○
4	* Fuel line	<ul style="list-style-type: none"> • Check fuel hose and vacuum pipe for cracks or damage. • Replace if necessary. 		○	○
5	* Transmission oil	<ul style="list-style-type: none"> • Check for oil leakage. • Correct if necessary. • Replace every 12,000 (8,000) or 24 months. (Warm engine before draining.) 	REPLACE	○	○
6	* Autolube pump	<ul style="list-style-type: none"> • Check operation. • Correct if necessary. • Bleed the air. 	○		○
7	* Brakes (front and rear)	<ul style="list-style-type: none"> • Check operation/fluid leakage/See NOTE. • Correct if necessary. 	○	○	○
8	* Cooling system	<ul style="list-style-type: none"> • Check hose condition. • Replace if necessary. • Replace coolant every 12,000 (8,000) or 24 months. 		○	○
9	* Wheels	<ul style="list-style-type: none"> • Check damage/runout/Tightening torque. • Replace/tighten if necessary. 		○	○
10	* Wheel bearings	<ul style="list-style-type: none"> • Check bearing assembly for looseness/damage. • Replace if damaged. 		○	○
11	* Steering bearing	<ul style="list-style-type: none"> • Check bearing assembly for looseness. • Correct if necessary. • Moderately repack every 12,000 (8,000) or 24 months.** 	○	○	○
12	* Rear shock absorber	<ul style="list-style-type: none"> • Check operation/oil leakage. • Replace if necessary. 		○	○
13	* V-belt	<ul style="list-style-type: none"> • Check damage and wear. • Replace if necessary. 			○
14	* Fitting/Fasteners	<ul style="list-style-type: none"> • Check all chassis fittings and fasteners. • Tighten if necessary. 	○	○	○
15	* Centerstand	<ul style="list-style-type: none"> • Check operation. • Repair if necessary. 	○	○	○
16	* Battery	<ul style="list-style-type: none"> • Check specific gravity. • Check breather pipe for proper operation. • Correct if necessary. 		○	○

Items marked with an asterisk (*) require special tools, data and technical skills for servicing.

Take the scooter to a Yamaha or MBK Dealer when servicing these items.

** : Medium weight wheel bearing grease.