YAMAHA MBK

CS50/Z 2002

5RW1-AE1

SERVICE MANUAL

EAS00001

CS50/Z
SERVICE MANUAL

1st Edition, September 2002

Printed in Spain.

EAS00002

NOTICE

This manual was produced by the Yamaha Motor España, S.A., primarily for use by Yamaha/MBK dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual. Therefore, anyone who uses this book to perform maintenance and repairs on Yamaha/MBK vehicles should have a basic understanding of the mechanics and the techniques to repair these types of vehicles. Repair and maintenance work attempted by anyone without this knowledge is likely to render the vehicle unsafe and unfit for use.

Yamaha Motor España, S.A., is continually striving to improve all of its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha/MBK dealers and will appear in future editions of this manual where applicabe.

NOTE:

Designs and specifications are subject to change without notice.

EAS00005

IMPORTANT INFORMATION

Particularly important information is distinguished in this manual by the following.

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

⚠ WARNING — 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.

EAS00007

HOW TO USE THIS MANUAL

FORMAT OF THIS MANUAL

This manual consists of chapters for the main subject categories (See “Illustrated Symbols”).
First heading ①: This is a chapter with a symbol at the top right-hand side of each page.
Second heading ②: This title appears at the top of each page to the left of the chapter symbol. (For the “Inspection and periodic adjustments”, chapter the third heading appears.)
Third heading ③: This is a final heading.

MANUAL FORMAT

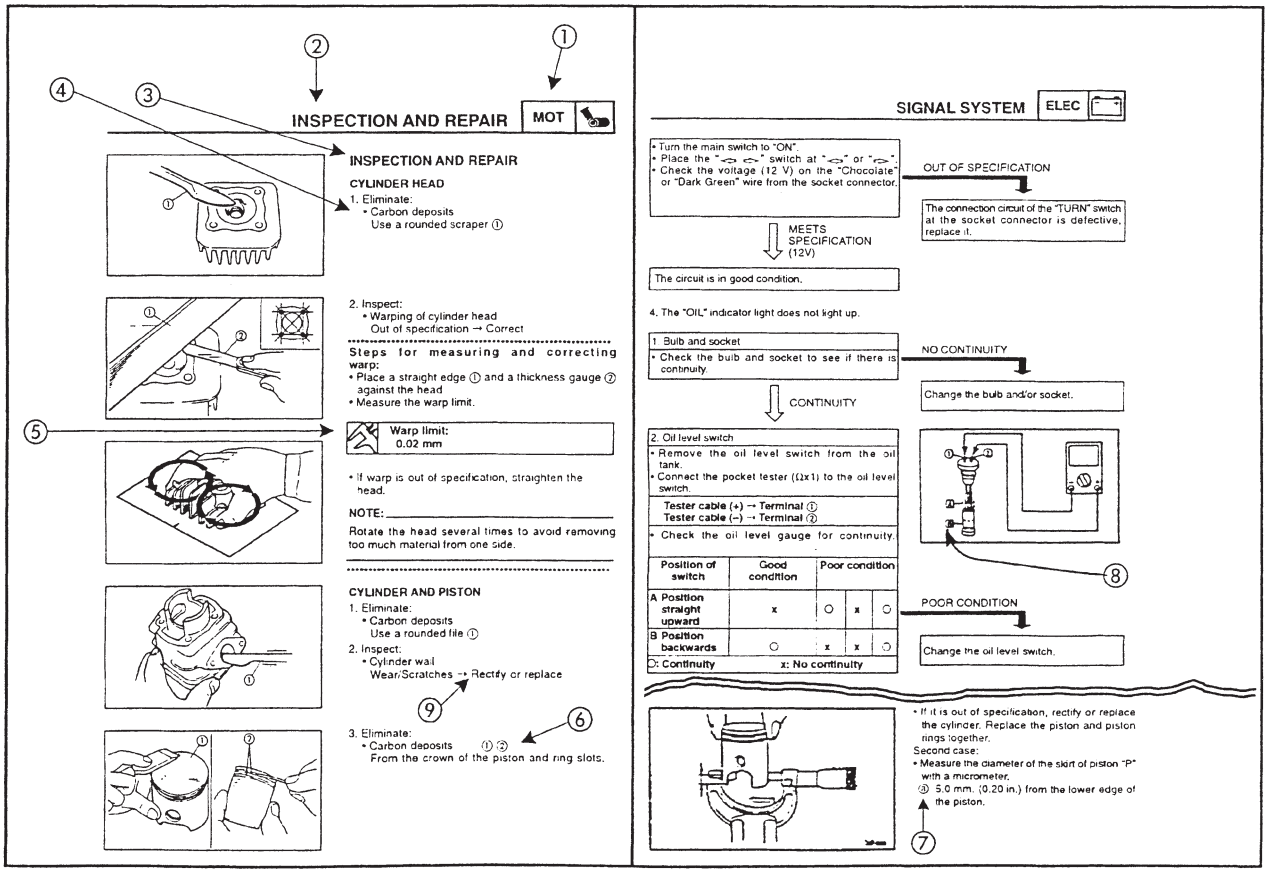
All the procedures in this manual are organized sequentially, step by step. The information has been compiled to make reading easy for the mechanic and to provide useful reference material which contains ample explanations of all disassembly, repair, assembly and inspection procedures. A particularly important procedure ④ is placed between a lines of asterisks “**” with each procedure preceded by “•”.

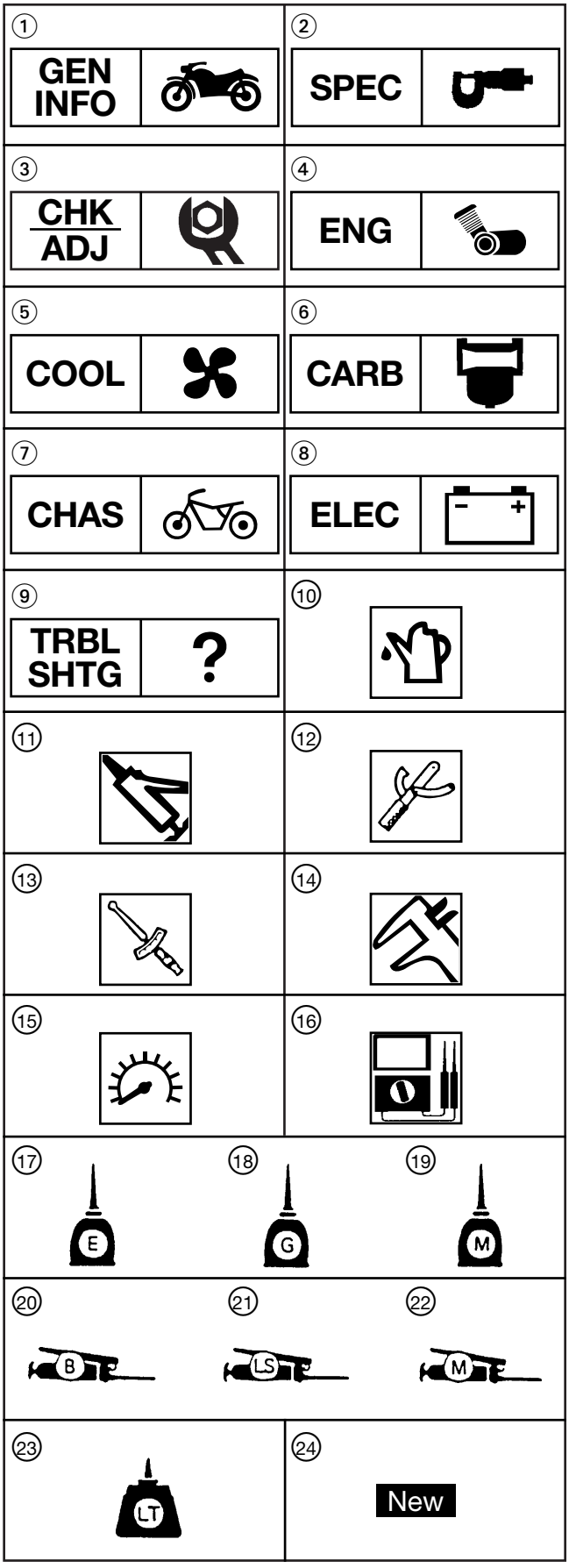
IMPORTANT CHARACTERISTICS

- Data and special tools are put in a box preceded by a corresponding symbol ⑤.
- A number within a circle ⑥ indicates the number of a part, and a alphabetical letter within a circle indicates data or an alignment mark ⑦, everything else is indicated by a letter within a box ⑧.
- The conditions of defective components will precede an arrow symbol and the course of action to be followd will follow the symbol ⑨.

DETAILED DIAGRAM

Each chapter provides detailed diagrams before each disassembly section, for the easy identification of disassembly/assembly procedures.





EAS00008

ILLUSTRATED SYMBOLS

(See illustration)
The symbols from ① to ⑨ are designed as thumb indices, to indicate the chapter number and index.

① General information
② Specifications
③ Periodic checks and adjustments
④ General motor revision
⑤ Cooling system
⑥ Carburetor
⑦ Chassis
⑧ Electrical system
⑨ Troubleshooting

The illustrated symbols from ⑩ to ⑯ are used to identify the specifications that appear in the text.

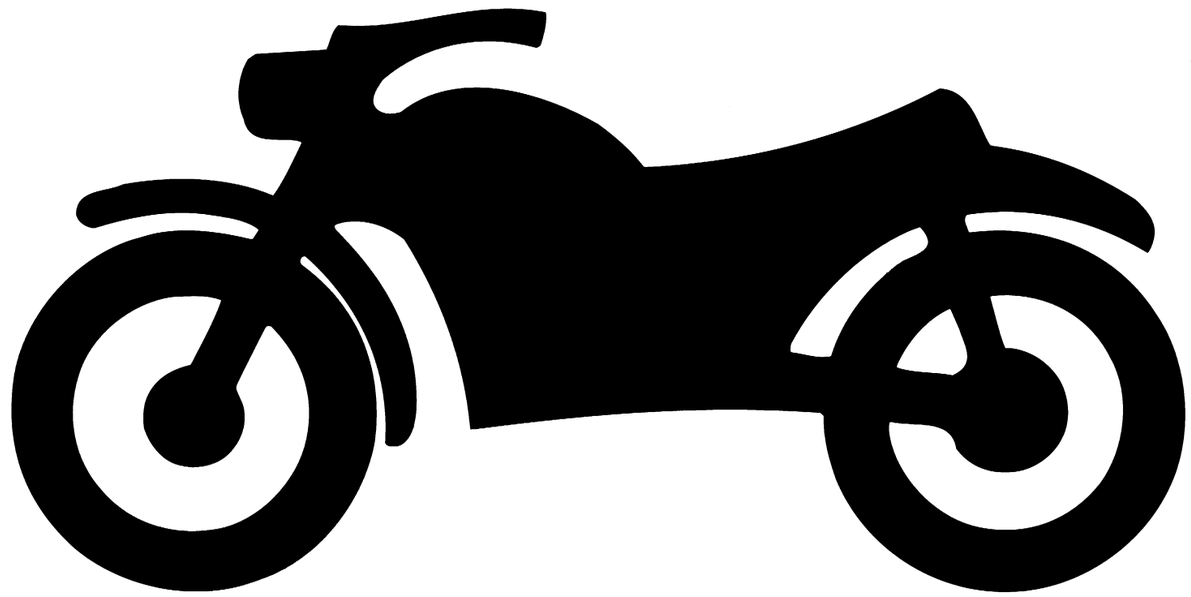
⑩ Refill liquid
⑪ Lubricant
⑫ Special tool
⑬ Torque
⑭ Wear, play limit
⑮ Motor speed
⑯ Ω, V, A

The illustrated symbols from ⑰ to ㉔ of the detailed diagrams indicate the grade of lubricant and the site of the lubrication point.

⑰ Apply motor oil
⑱ Apply gear oil
⑲ Apply molybdenum disulphide oil
⑳ Apply wheel bearing grease
㉑ Apply lightweight lithium soap base grease
㉒ Apply molybdenum disulphide grease
㉓ Apply blocking agent (LOCTITE®)
㉔ Use a new one

EAS00010

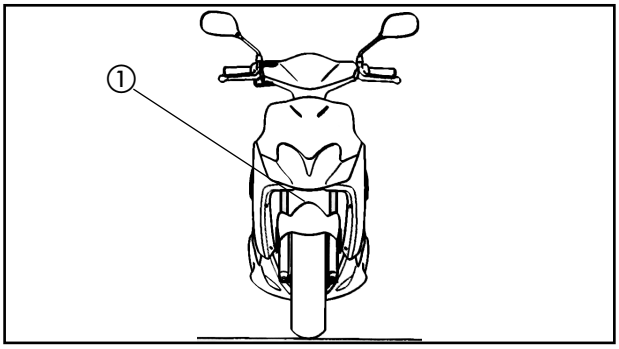
TABLE OF CONTENTS



GEN INFO

1

CHAPTER 1
GENERAL INFORMATION



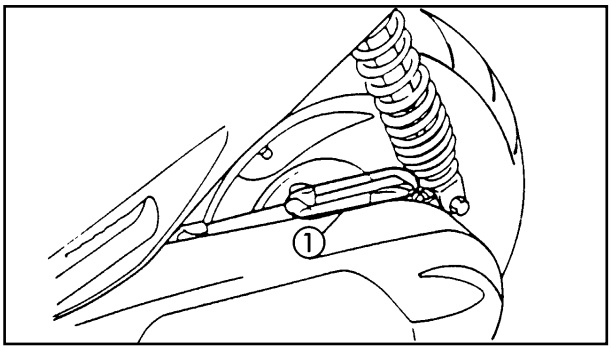
EAS00015

GENERAL INFORMATION

SCOOTER IDENTIFICATION

FRAME SERIAL NUMBER

The frame serial number ① is stamped on the chassis.



ENGINE SERIAL NUMBER

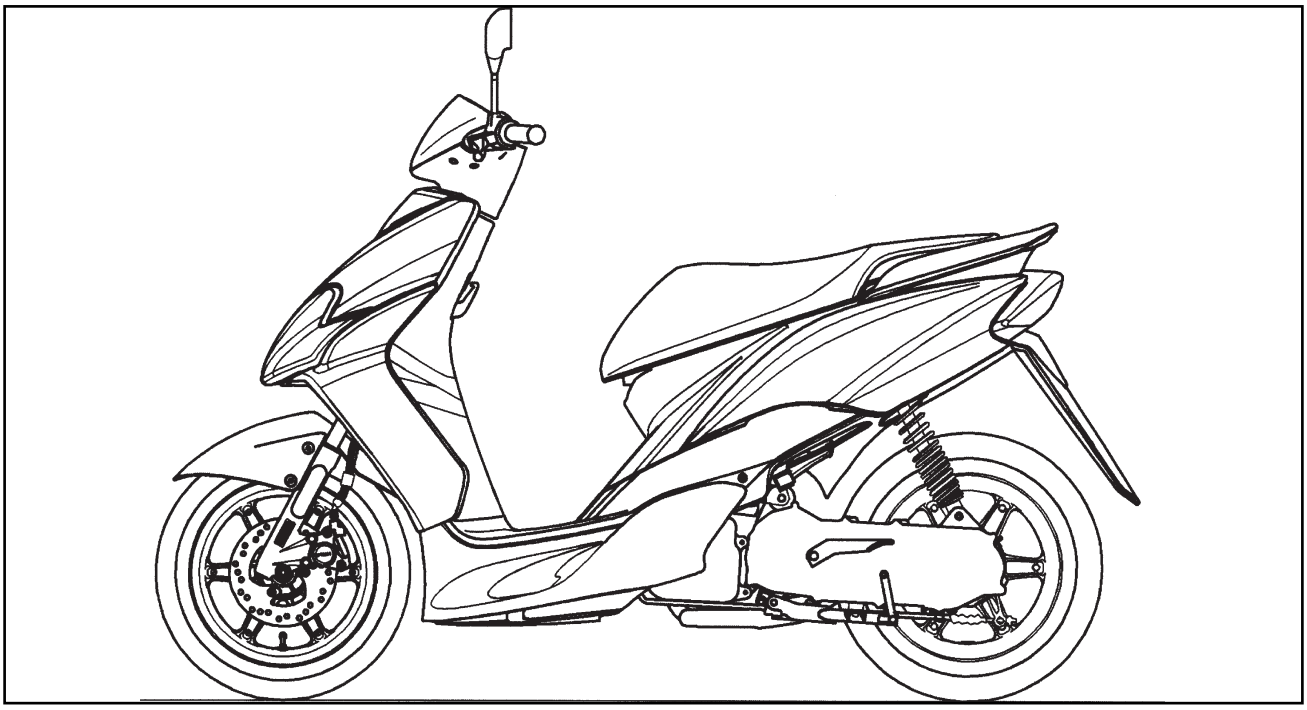
The serial number of the engine ① is stamped on the raised portion of the rear left section of the transmission box.

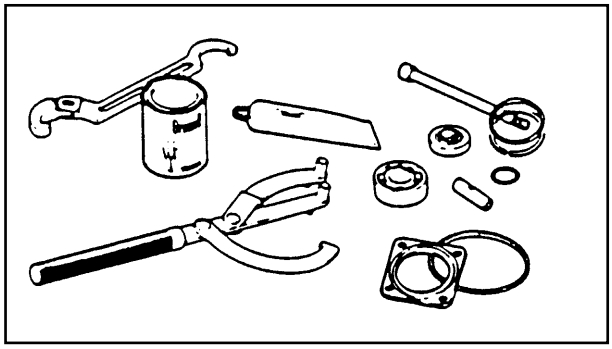
NOTE:

The first three digits of these numbers are for identifying the model; the remaining digits constitute the production number of the unit.

NOTE:

Designs and specifications are subject to change without notice.



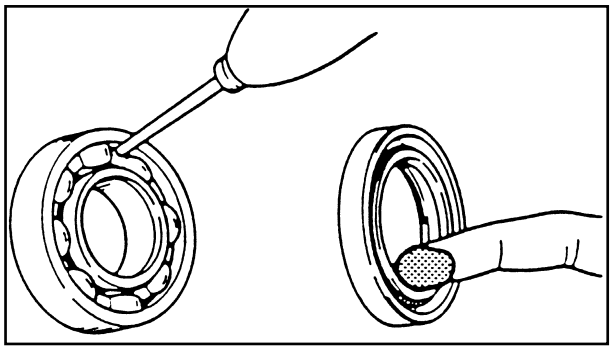


IMPORTANT INFORMATION

EAS00021

REPLACEMENT PARTS

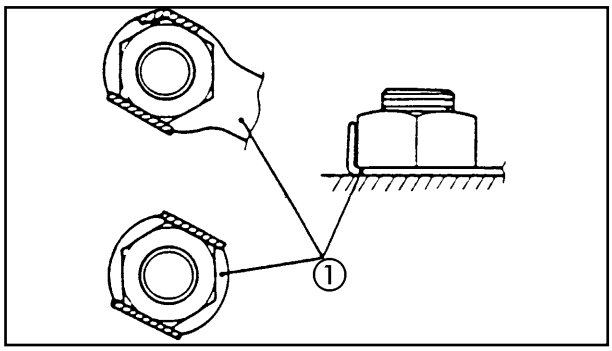
1. Use only genuine Yamaha/MBK parts for all replacements. Use the oil and/or grease recommended by Yamaha/MBK for assembly and adjustment.



EAS00022

GASKETS, OIL SEALS AND O-RINGS

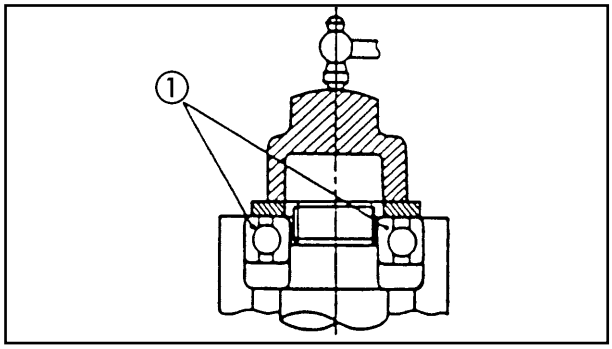
1. Replace all gaskets, seals and O-rings when overhauling the engine. All gasket surfaces, oil seal lips and O-rings must be cleaned.
2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.



EAS00023

LOCK WASHERS/PLATES AND COTTER PINS

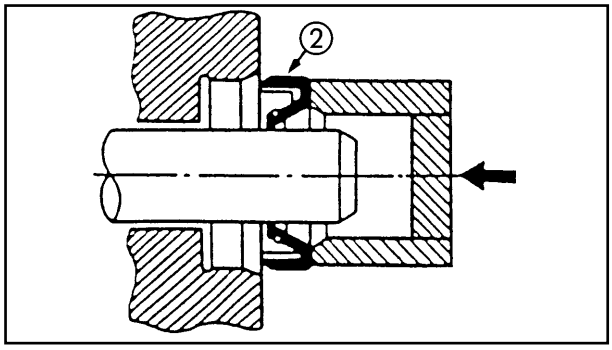
1. Replace all lock washers/plates ① and cotter pins after removal. Bend lock tabs along the bolt or nut flats after the bolt or nut has been tightened to specification.



EAS00024

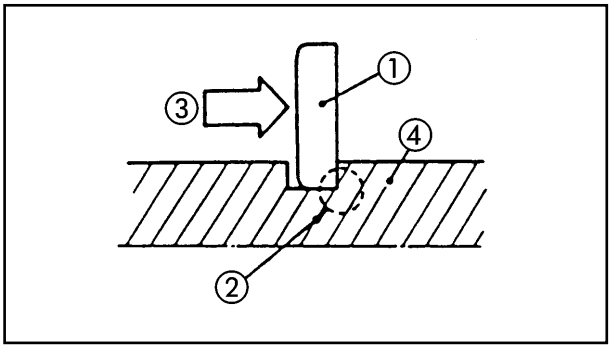
BEARINGS AND OIL SEALS

1. Install the bearings ① and oil stops ② with their manufacturer brands or numbers facing outwards. (In other words, the stamped letters should be on the side exposed to view.) When installing oil seals, apply a light coating of lightweight lithium base grease to the seal lips. Put oil on the bearings when installing.



CAUTION:

Do not use compressed air to spin the bearings dry. This will damage the bearing surface.



EAS00025

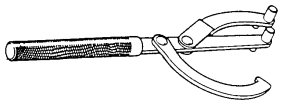
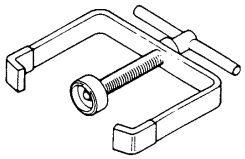
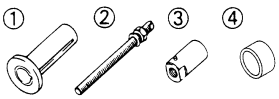
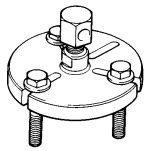
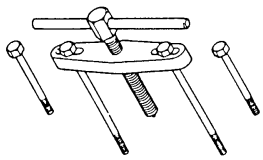
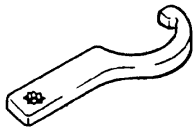
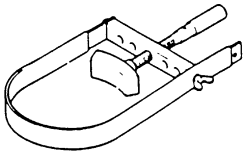
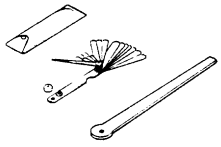
CIRCLIPS

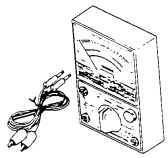
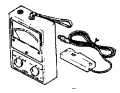
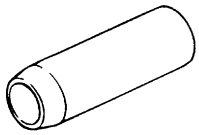
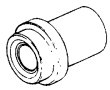
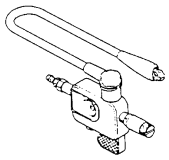
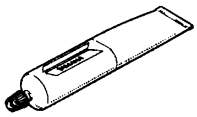
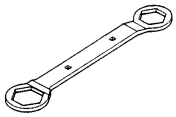
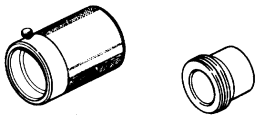
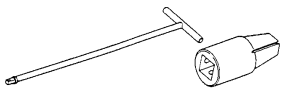
1. Check all circlips carefully before reassembly. Always replace piston pin clips after one use. Replace distorted circlips. When installing a circlip ①, make sure that the sharp-edged corner ② is positioned opposite the thrust ③ it receives. See sectional view.
   ④ Shaft.

EAS00027

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 No.	Tool name / Usage	Illustration
90890-01235	Rotor holding tool This tool is used to remove the flywheel magneto.	
90890-01337	Clutch spring bracket This tool is used to remove the clutch nut while holding the compression spring.	
90890-01274 -01275 -01277 -01288	Container of the crankshaft installer a Bolt of the crankshaft installer b Adapter c, Spacer d These tools are used to install the crankshaft.	
90890-01362 .	Flywheel puller For removing the flywheel.	
90890-01135	Crankcase separation tool This tool is used to remove the crankshaft or separate the crankcase.	
90890-01384	Oil seal guide Protects the edge of the oil seal during the installation of the secondary sliding pulley wheel.	
90890-01403	Ring nut wrench This tool is used to loosen and tighten the steering ring nut.	
90890-01701	Pulley bracket This tools is used to disassemble and assemble the secondary pulley.	
90890-03079	Thickenss gauge This tool is used to measure the clearance.	

Tool No.	Tool name / Usage	Illustration
90890-03112	Pocket tester This instrument is very important for checking the electrical system.	
90890-03113	Engine tachometer This tool is necessary for detecting the engine rpm.	
90890-01409	Oil seals guide This tool is used to install the left oil guide of the crankcase.	
90890-01410	Oil seals installer This tool is used to install the left oil seal of the crankcase.	
90890-06754	Ignition checker This instrument is necessary to check the components of the ignition system.	
90890-85505	Yamaha bond No. 1215 This bond (sealant) is used for crankcase mating surface, etc.	
90890-01348	Locknut wrench This tool is used to loosen and tighten the secondary sheave nut.	
90890-01367 ① -01400 ② Front oil seals inserter Counterweight a Adapter b These tools are used in the installation of seals.		
90890-01326 -01294 T-handle Damper rod holder These tool are used for holding the damper rod holder when removing or installing the damper rod holder.		

SPEC 2

CHAPTER 2
SPECIFICATIONS

SPECIFICATIONS

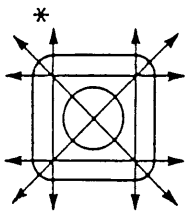
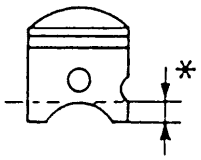
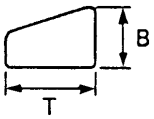
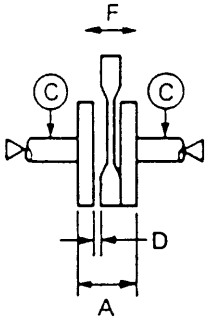
GENERAL SPECIFICATIONS

Model	CS50	CS50Z
Dimensions:		
Overall lenght	1.740 mm	
Overall widht	675 mm	
Overall height	1.065 mm	
Seat height	770 mm / 776 mm	
Wheelbase	1.210 mm	
Minimum ground clearance	132 mm	
Basic weight (With oil and full fuel tank):	80,5 kg	83,7 kg
Engine:		
Engine type	Plate valve, gasoline, 2-strokes	
	air-cooled	Liquid cooled
Cylinder arrangement	Forward-inclined single cylinder	
Displacement	49,3 cc	
Bore x stroke	40,0 x 39,2 mm	
Compression ratio	10,2 : 1	11,4 : 1
Starting system	Electric and kickstarter	
Lubrication system:	Yamaha autolube	
Oil type or grade:		
Engine oil	2-strokes motor oil (JASO grade FC)	
Transmission oil	SE type 10W30 SAE motor oil	
Oil capacity:		
Oil tank (motor oil)	1,4 L	
Transmission fluid		
Periodic fluid change	0,10 L	
Total amount	0,11 L	
Cooling system capacity:		
(Total amount)	–	0,910 L
Air filter:	Wet type element	
Fuel:		
Type	Unleaded gasoline	
Fuel tank capacity	5,5 L	
Carburetor:		
Type/quantity	PHVA12ZS/1, PY12/1	PHVA12ZS/1
Manufacturer	DELL'ORTO, GURTNER	DELL'ORTO
Spark plug:		
Type/Manufacturer	BR8HS/N.G.K.	
Spark plug gap	0,6 ~ 0,7 mm	
Clutch type:	Dry, centrifugal automatic	
Transmission:		
Primary reduction system	Helical gear	
Primary reduction ratio	52/13 (4.000)	
Secondary reduction system	Straight gearing	
Secondary reduction ratio	42/13 (3.230)	43/13 (3.310)
Transmission type	Single speed automatic (V-belt type)	
Operation	Centrifugal automatic type	

Model	CS50	CS50Z
Chassis:		
Frame type	Steel tube underbone	
Front axle incline angle	25°	
Steering angle base	80 mm	
Tire:		
Size/Type (Front)	110/70-12 / 47 L	
Size/Type (Rear)	120/70-12 / 51 L, 130/70-12 / 56 L	
Tire pressure (cold tire):		
Front	175 KPa (1,75 kg/cm^2)	
Rear	200 KPa (2,00 kg/cm^2)	
Maximum Load:		
Front	175 KPa (1,75 Kg/cm^2)	
Rear	225 KPa (2,25 Kg/cm^2)	
Brake:		
Type of front brake	Disk brake	
Activation	Right hand operation	
Type of rear brake	Drum brake	
Activation	Left hand operation	
Suspension:		
Front suspension	Telescopic fork	
Rear suspension	Unit swing	
Shock absorber:		
Front shock absorber	Coil spring/Oil damper	
Rear shock absorber	Coil spring/Oil damper	
Wheel travel:		
Front wheel travel	70 mm	
Rear wheel travel	60 mm	
Electrical:		
Ignition system	DC-CDI	
Generator system	Magnetic flywheel	
Battery type or model	Maintenance free	
Battery capacity	12V 4AH	
Type of headlamp:	Bulb	
Bulb wattage/quantity:		
Headlight	12V, 35W / 35Wx1	
Tail/brake light	12V, 5W / 21Wx1	
Turn signal light	12V, 10Wx2 (rear) / 12V, 16Wx2 (front)	
Auxiliary light	12V, 5W x 2	
License plate light	12V, 5W x 1	
Meter lighting	12V, 1,2W x 2	
Indicator light voltage/quantity:		
Oil level warning light	LED	
Turn signal indicator light	12V, 2W x 2	
High beam indicator light	12V, 2W x 1	
Coolant temperature warning light	–	LED

MAINTENANCE SPECIFICATIONS

ENGINE

Model	CS50	CS50Z
Cylinder head:		
Warp limit 	0,02 mm * The lines indicate measurement with straight edge	
Cylinder:		
Bore size	39,993 ~ 40,012 mm	
<Limit>	<40,1 mm>	
Taper limit	0,05 mm	
Out of round limit	0,01 mm	
Piston:		
Piston size	39,952 - 39,972 mm	39,957 - 39,997 mm
Measuring point 	5 mm	
Piston clearance	0,034 - 0,047 mm	0,029 - 0,042 mm
On measurement 1st	40,25 mm	
Piston rings:		
Cut-away section (BXT)/TYPE		
Top ring 	1.5 x 1.8 mm/Keystone	
2nd ring	1.5 x 1.8 mm/Keystone	
End gap (installed)		
Top ring	0,15 ~ 0,35 mm	
2nd ring	0,15 ~ 0,35 mm	
<Limit>	<0,6 mm>	
Sice clearance		
Top ring	0,03 ~ 0,05 mm	
2nd ring	0,03 ~ 0,05 mm	
Crankshaft: 		
Crank width “A”	37,90 ~ 37,95 mm	
Runout limit “C”	0,03 mm	
Large end of rod side clearance “D”	0,2 ~ 0,5 mm	
Small end of rod clerance “F”	0,4 ~ 0,8 mm	

Model	CS50		CS50Z
Automatic centrifugal clutch:			
Clutch shoe thickness	2,0 mm		
<Limit>	<1,0 mm>		
Clutch shoe spring free length	29,9 mm		
Clutch - in revolution	3.350 - 3.850 r/min.		3.950 - 4.450 r/min.
Clutch - stall revolution	5.200 - 6.000 r/min.		6.900 - 7.700 r/min.
V-belt:			
V-belt width	16,5 mm		
<Limit>	<15,7 mm>		
Transmission:			
Main axle eccentricity limit	0,08 mm		
Drive axle eccentricity limit	0,08 mm		
Pedal starting:			
Type	Ratchet		
Strength of pedal spring	150 ~ 250 g		
Air filter oil grade:	For foam air filter or air-cooled 2-stroke motor oil		
Carburetor:			
Type / Manufacturer / Amount	PHVA12ZS/1 DELL'ORTO	PY12/1 GURTNER	PHVA12ZS/1 DELL'ORTO
Main jet / Model (M.J.)	#65	#62	#65
Jet needle (J.N.)	A20-3/5	B10A-2/3	A35-4/5
Main air jet (M.A.J.)	ø 2.5	ø 2.0	ø 2.5
Pilot jet (P.J.)	#36	#38	#36
Pilot screw (P.A.S.)	2 - $2^1/_4$	$1^3/_4$ - 2	$1^3/_4 \pm {}^1/_8$
Valve seat size	1.2	1.4	1.2
Engine idling speed	1650 ~ 1950 r/min		
Starter jet	#50	#42	#50

CHASSIS

Model	CS50	CS50Z
Steering system:		
Steering bearing type Upper	Ball bearing	
Lower	Ball bearing	
Front suspension:		
Front fork travel	70 mm	
Fork spring free length	224 mm	
Spring rate (K_1)	1,33 Kgf/mm	
(K_2)	2,0 Kgf/mm	
Oil capacity	45 cc ± 1	
Oil grade	Fork oil: 10W or equivalent	
Rear suspension:		
Shock absorber stroke	60 mm	
Spring free length	220 mm	
Spring rate (K_1)	4,58 Kgf/mm	
(K_2)	6,12 Kgf/mm	
Wheels:		
Type of front wheel	Alloy rim	
Type of rear wheel	Alloy rim	
Size/material of front tyre	2,75 x 12 / aluminium	
Size/material of rear tyre	3,00 x 12 / aluminium	
Rim runout limit		
Radial	1,0 mm	
Lateral	1,0 mm	
Front disc brake:		
Type	Single	
Disc outside diameter x thickness	ø 190 x 3,5 mm	
Pad thickness	4,5 mm	
<Limit>	<0,5 mm>	
Interior diameter of pump	11 mm	
Calliper interior diameter	30 mm	
Brake fluid type	DOT #4	
Rear drum brake:		
Type	Single cam	
Drum inside diameter	ø 110 mm	
<Limit>	<ø 110,5 mm>	
Shoe thickness	4 mm	
<Limit>	<2 mm>	
Brake levers:		
Free play of the front brake lever (right)/measurement	2 ~ 5 mm / At the end of the lever	
Free play of the rear brake lever (left)/measurement	5 ~ 10 mm / At the end of the lever	

ELECTRICAL SYSTEM

Model	CS50	CS50Z
Ignition system:		
Type	DC-CDI	
Ignition timing (B.T.D.C.)	14°/5.000 r/min	
Pickup coil resistance (colour)	400 ~ 600 Ω at 20 °C (68 °F) (Black-White/Blue)	
Igntion coil:		
Minimum spark gap	6.0 mm	
Primary winding resistance	0.56 ~ 0.84 Ω at 20 °C	
Secondary winding resistance	5.68 ~ 8.52 KΩ at 20 °C	
Charging system:		
Normal output	0.4 A or more/3.000 r/min 1.0 A or less/8.000 r/min	
Source coil resistance (colour)	0.288 ~ 0.432 Ω at 20 °C (68 °F) (White-Black)	
Lighting system:		
Lighting output	12 V or more/3.000 r/min 15 V or less/8.000 r/min	
Lighting coil resistance (colour)	0.176 ~ 0.264 Ω at 20 °C (68 °F) (Yellow/Red-Black)	
Battery:		
Type	GT4L-BS	
Capacity	12V 4 Ah	
Electric starter system:		
Type	Constant mesh type	
Starter motor:		
Output	0.14 kw	
Armature coil resistance	0.064 ~ 0.079 Ω at 20 °C (68°F)	
Brush length	3.9 mm	
<Limit>	<0.9 mm>	
Circuit breaker:		
Type	Fuse	
Amperage/Quantity	7.5A x 1	

EAS00028

CONVERSION TABLE

All specification data in this manual are listed in SI and METRIC UNITS.
Use this table to convert METRIC unit data to IMPERIAL unit data.

Ex.

METRIC		MULTIPLIER		IMPERIAL
** mm	x	0.03937	=	** in
2 mm	x	0.03937	=	0.08 in

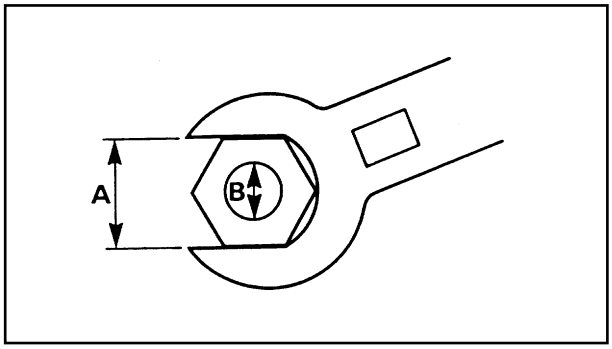
CONVERSION TABLE

METRIC TO IMPERIAL			
	Metric unit	Multiplier	Imperial unit
Tightening Torque	m•kg m•kg cm•kg cm•kg	7.233 86.794 0.0723 0.8679	ft•lb in•lb ft•lb in•lb
Weight	kg g	2.205 0.03527	lb oz
Speed	km/h	0.6214	mi/h
Distance	km m m cm mm	0.6214 3.281 1.094 0.3937 0.03937	mi ft yd in in
Volume, Capacity	cc (cm^3) cc (cm^3) L (liter) L (liter)	0.03527 0.06102 0.8799 0.2199	oz (IMP liq.) cu•in qt (IMP liq.) gal (IMP liq.)
Misc.	kg/mm kg/cm^2 Centigrade (°C)	55.997 14.2234 9/5 + 32	lb/in psi (lb/in^2) Fahrenheit (°F)

EAS00029

GENERAL TIGHTENING TORQUE SPECIFICATIONS

This chart specifies tightening torques for standard fasteners with a standard ISO thread pitch. Tightening torque specifications for special components or assemblies are provided for each chapter of this manual. To avoid warpage, tighten multi-fastener assemblies in a crisscross pattern and progressive stages until the specified tightening torque is reached. Unless otherwise specified, tightening torque specifications require clean, dry threads. Components should be at room temperature.



A: Width across flats
B: Thread diameter

A (Nut)	B (Bolt)	General tightening torques	
		Nm	m • kg
10 mm	6 mm	6	0.6
12 mm	8 mm	15	1.5
14 mm	10 mm	30	3.0
17 mm	12 mm	55	5.5
19 mm	14 mm	85	8.5
22 mm	16 mm	130	13.0

TIGHTENING TORQUES

ENGINE TIGHTENING TORQUES

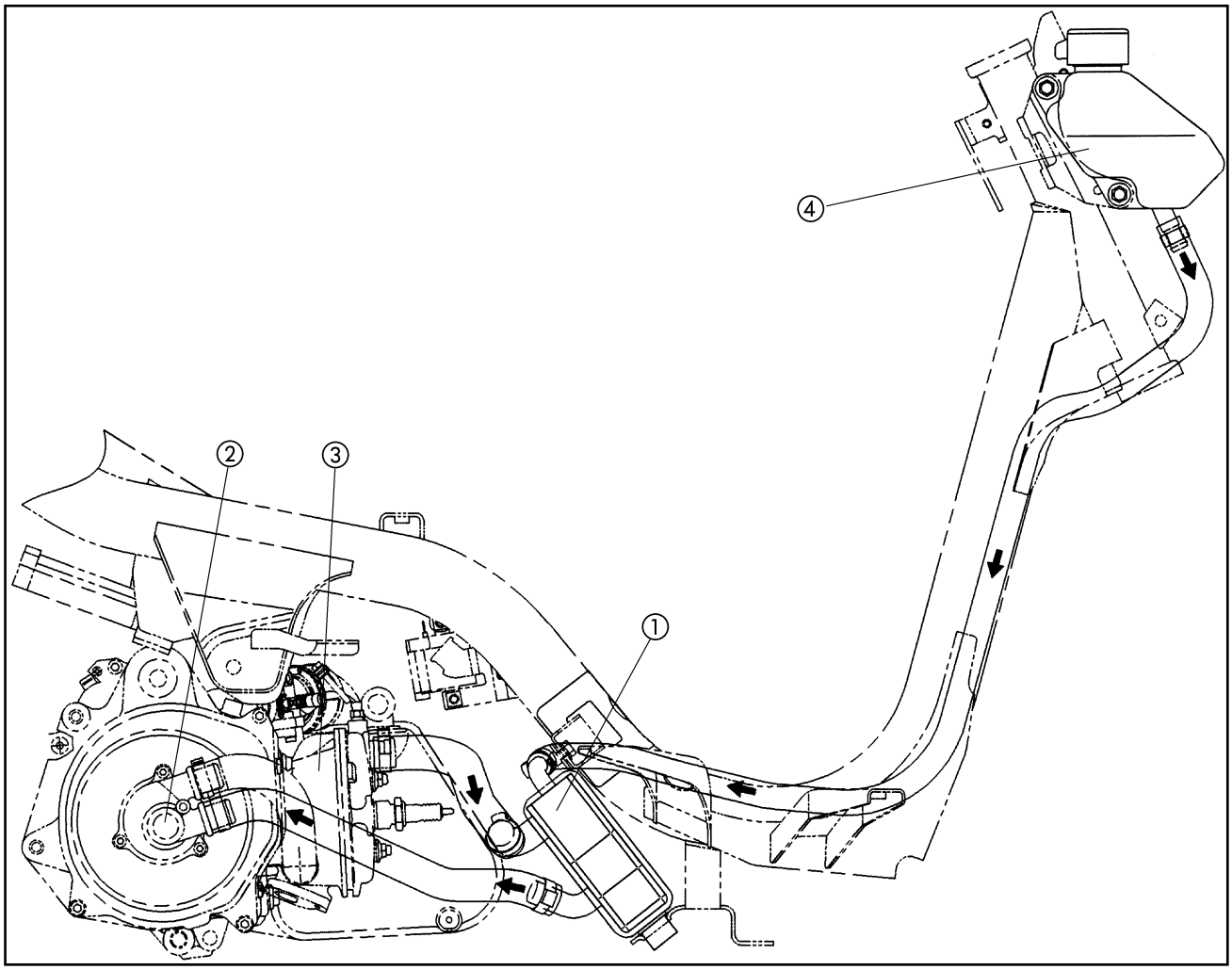
Part to be tightened	Part name	Thread size	Q'ty	Tightening torque		Remarks
				Nm	m•kg	
Spark plug	–	M 14	1	20	2,0	
Cylinder head and cylinder	Nut	M 7	4	14	1.4	
Cylinder	Stud	M 7	4	17	1.7	
Air protector 2 (A/C)	Screw	M 6	3	7	0.7	
Air protector 3 (A/C)	Screw	M 6	1	2	0.2	
Fan (A/C)	Screw	M 6	3	7	0.7	
Automatic lubrication pump	Screw	M 5	2	4	0.4	
Reed valve	Bolt	M 6	4	11	1.1	
Air filter	Screw	M 6	1	9	0.9	
Carburettor cover	Screw	M 4	2	2	0.2	
Exhaust pipe	Screw	M 6	2	9	0.9	
Muffler	Bolt	M 8	2	26	2.6	
Exhaust pipe protector	Bolt	M 6	2	0.7	0.7	LT
Exhaust pipe cover	Bolt	M 6	5	0.7	0.7	LT
Crankcase	Bolt	M 6	6	10	1.0	
Cover of crankcase 2	Bolt	M 6	6	10	1.0	
Cover of crankcase 1	Bolt	M 6	12	12	1.2	
Air conduct (A/C)	Screw	M 6	2	7	0.7	
Crankcase bracket	Screw	M 6	2	7	0.7	
Drain bolt	Bolt	M 8	1	18	1.8	
Oil plug	Plug	M 14	1	3	0.3	
Intermediate gear plate	Screw	M 6	2	8	0.8	
Kickstarter	Bolt	M 6	1	9	0.9	
Starter motor	Bolt	M 6	2	13	1.3	
Clutch housing	Nut	M 10	1	40	4.0	
Primary pulley	Nut	M 12	1	45	4.5	
Magnet base	Screw	M 6	2	8	0.8	
Magnet rotor	Nut	M 12	1	43	4.3	
Cranckshaft oil seal stay	Bolt	M 6	1	8	0.8	
Water pump housing cover (L/C)	Bolt	M 6	3	7	0.7	
Water pump driver bolts (L/C)	Bolt	M 6	3	6.5	0.65	
Magnet cover (L/C)	Bolt	M 6	3	6.5	0.65	

CHASSIS TIGHTENING TORQUES

Part to be tightened	Thread size	Tihtening torque		Remarks
		Nm	m•kg	
Frame, Engine and Parts				
Frame with bracket 3	M10 x 1.25	42	4.2	
Engine bracket 3 with the engine	M12 x 1.25	84	8.4	
Cushion and related parts				
Rear shock absorber (bracket side)	M10 x 1.25	31.5	3.15	
Rear shock absorber (engine side)	M8 x 1.25	17.5	1.75	
Forks, handlebar and parts				
Handlebar or grip with axle guide	M10 x 1.25	42.5	4.25	
Axle guide	M25 x 1.00	75	7.5	See chapter 3 “ADJUSTING THE STEERING HEAD”
Brake tube joint screw	M10 x 1.25	23	2.3	
Seats and related parts				
Seat lock unit	M6 x 1.0	9.75	0.975	
Hook bracket	M6 x 1.0	8	0.8	
Case	M6 x 1.0	8	0.8	
Covers and related parts				
Plastic parts, plastic covers	M5	1.5	0.15	
Frame footrest plate	M6 x 1.0	4	0.4	
Leg protector 2/frame	M6 x 1.0	4	0.4	
Front and rear wheels				
Front wheel axle	M10 x 1.25	47.5	4.75	
Rear wheel axle	M14 x 1.5	125	12.5	
Rear brake lever	M6 x 1.0	13.5	1.35	
Shoe axle	M10 x 1.25	12	1.2	
Brake disk	M8 x 1.25	23	2.3	LT
Front brake calliper	M8 x 1.25	23	2.3	LT
Fuel tank				
Fuel cut-off valve		11	1.1	

COOLING SYSTEM (L/C VERSION ONLY)

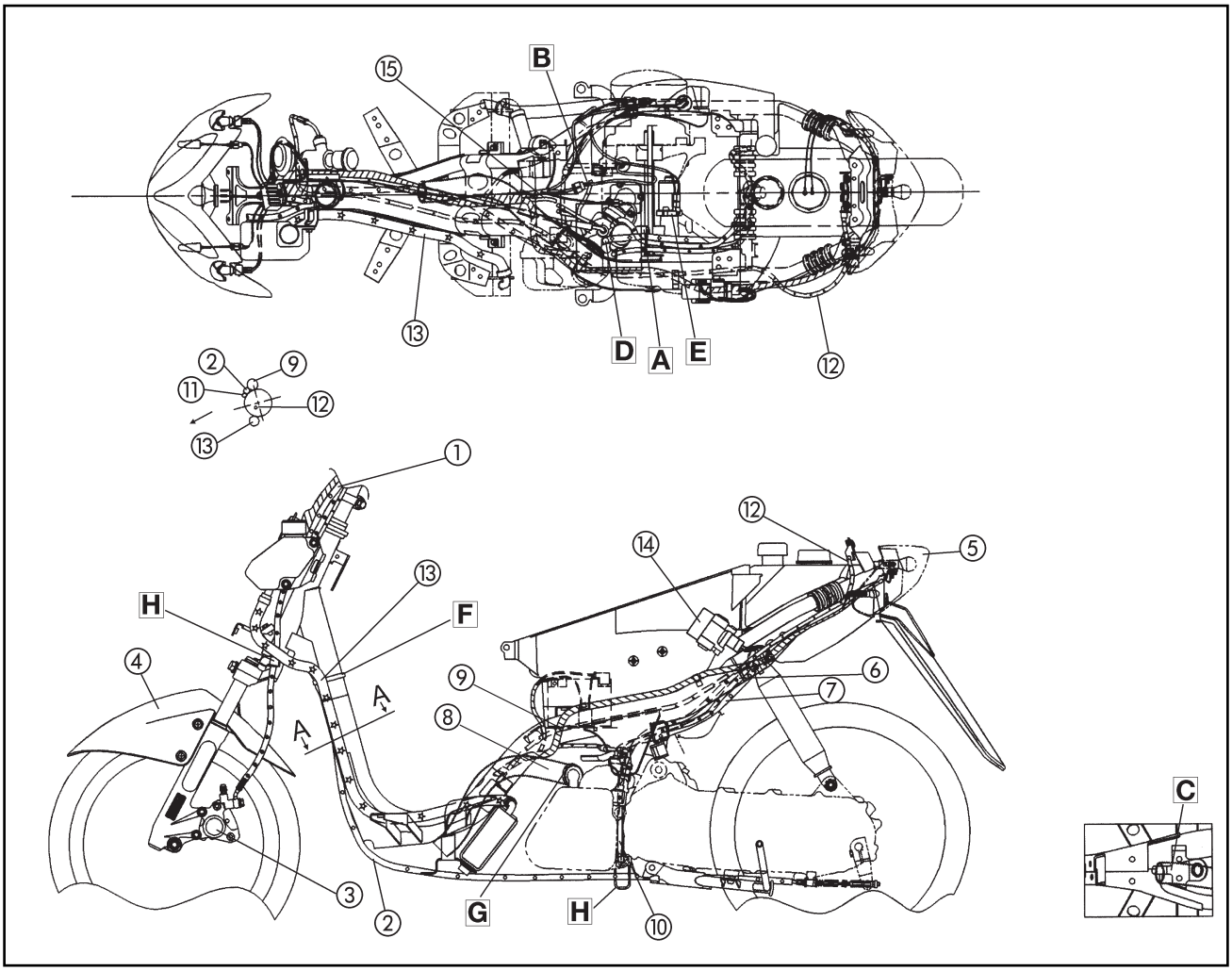
① Radiator
② Water pump
③ Cylinder
④ Reservoir tank



CABLE ROUTING

① Front brake hose
② Rear brake cable
③ Front brake calliper
④ Front mudguard
⑤ Taillight
⑥ Vacuum pipe
⑦ Fuel pipe
⑧ Intake hose (L/C)
⑨ Wire harness
⑩ Engine breather
⑪ Throttle cable
⑫ Seat lock cable
⑬ Coolant hose (L/C)
⑭ DC-CDI
⑮ Coolant hoses - Carburetor (L/C)

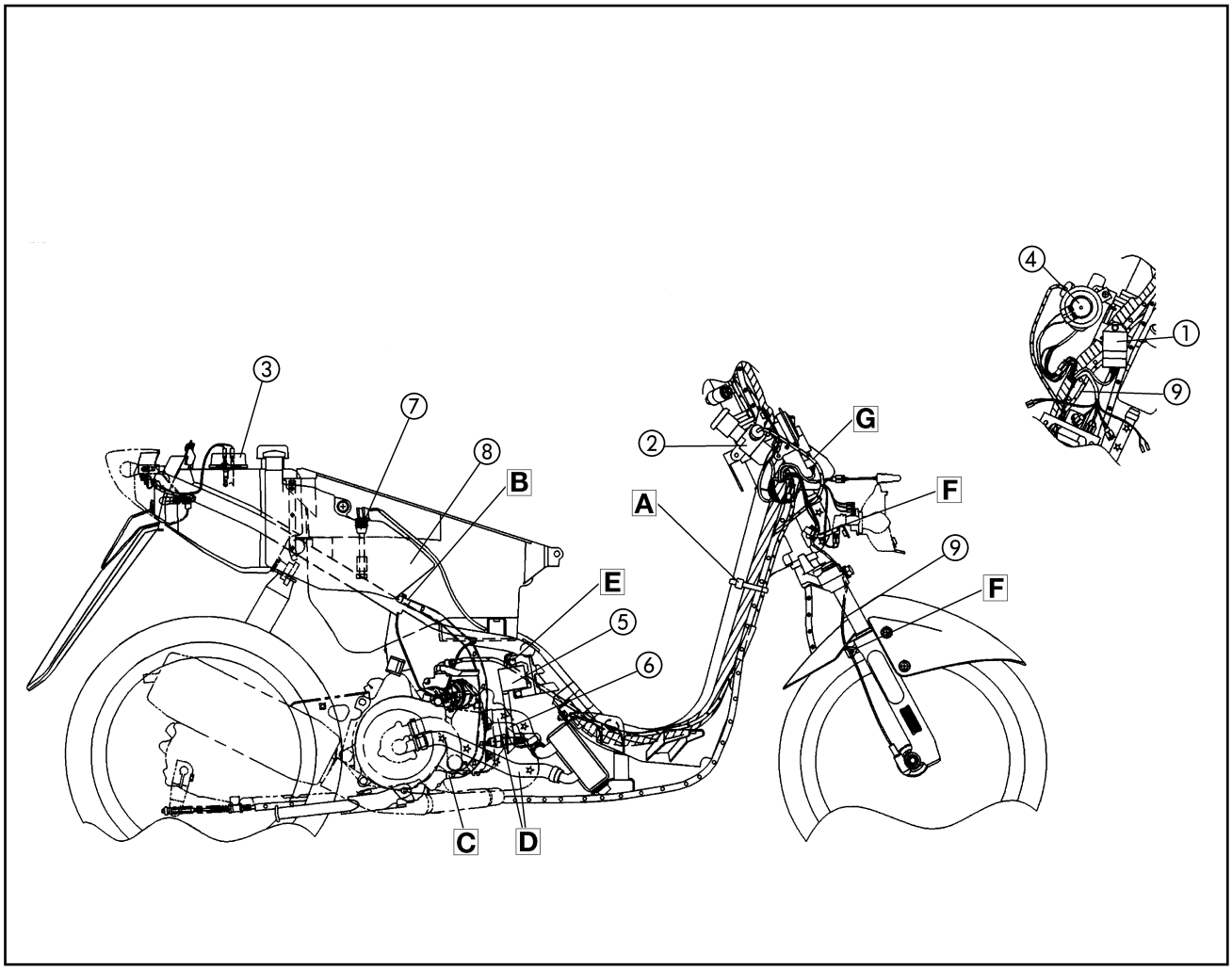
[A] Insert the three tubes through the clamp
[B] Connect the oil hose to the carburettor
[C] Set the intake hose under the reinforcement (L/C)
[D] Clamp the fuel pipe to the carburettor
[E] Tighten together the ground cable and the starter motor
[F] Clamp all the cables except the coolant hose (L/C) without tightening
[G] Clamp the intake hose to the air filter box (L/C)
[H] Pass the brake cable through the guide



CABLE ROUTING

① Rectifier / Regulator
② Main switch
③ Fuel level gauge
④ Horn
⑤ Ignition coil
⑥ Spark plug wire
⑦ Oil level gauge
⑧ Oil tank
⑨ Speedometer cable

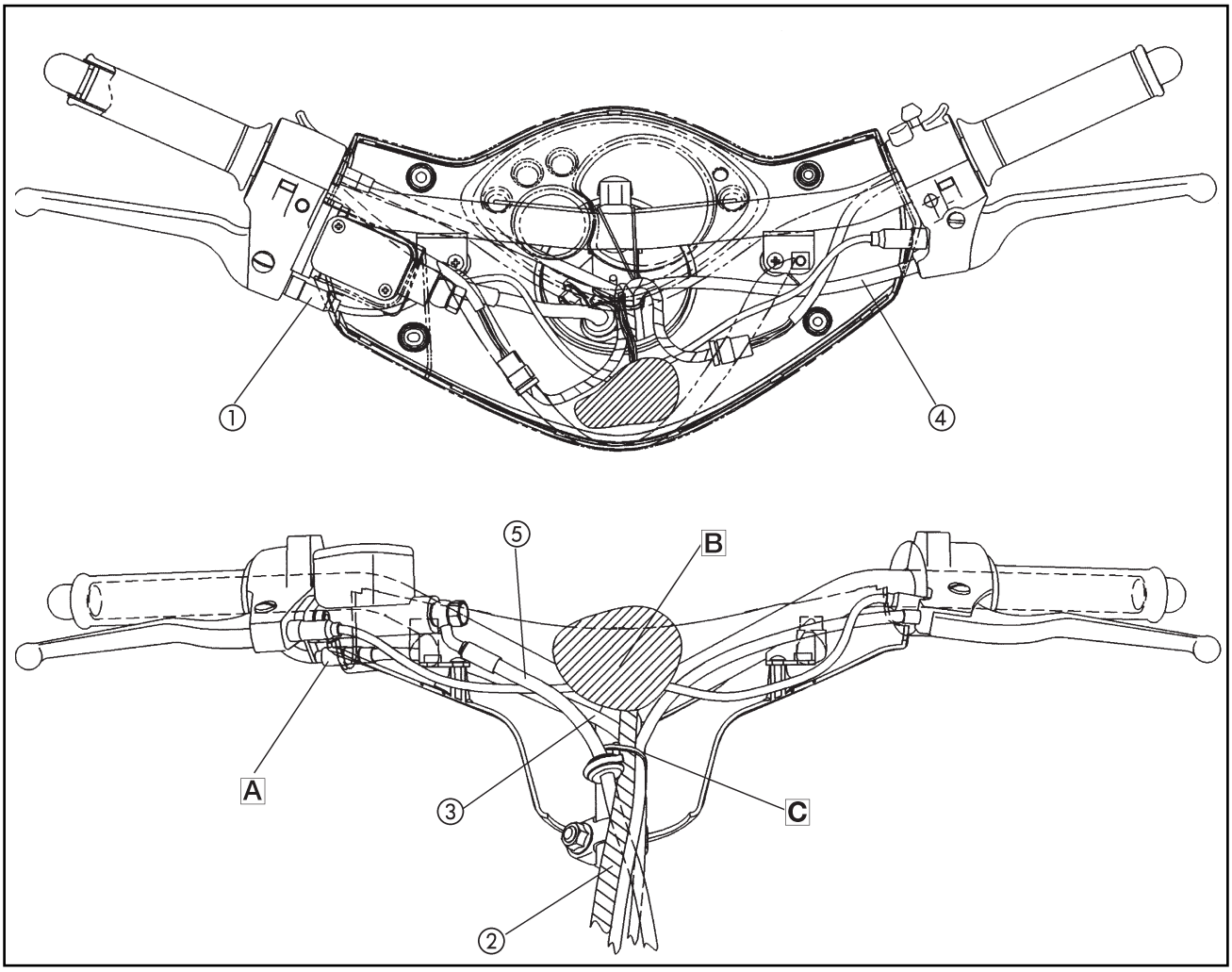
A Clamp the wire harness, brake cable and throttle to the frame
B Clamp the oil hose to the tank
C Connect the oil hose to the pump
D Tie both ends
E Tighten together the ground cable and the ignition coil
F Pass the speedometer cable through the guide
G Insert the seat lock cable throught the orifice of the frame



CABLE ROUTING

① Front brake switch
② Wire harness
③ Throttle cable
④ Rear brake cable
⑤ Front brake hose

[A] Throttle tension cable. Cover then adjust
[B] Connect the brake switch cables in this area
[C] Do not pass the brake hose through the clamp



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CHAPTER 3
PERIODIC CHECKS AND ADJUSTMENTS