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.

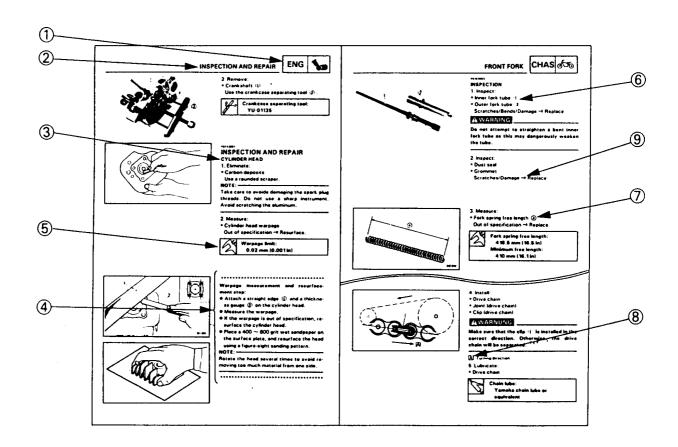
A set of particulary important procedure ④ is placed between a line of asterisks " * " with each step preceded by " • ".

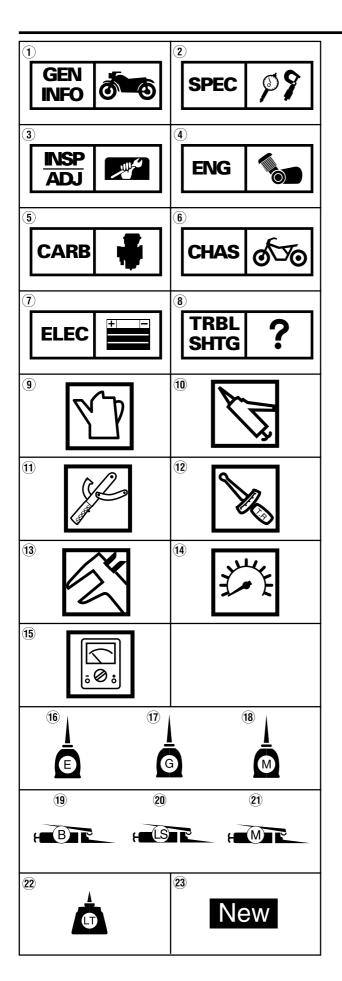
IMPORTANT FEATURES

- 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 alignement 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 ③.

EXPLODED DIAGRAM

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





ILLUSTRATED SYMBOLS (REFER TO THE ILLUSTRATION)

Illustrated symbols ① to ② 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
- Troubleshooting

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

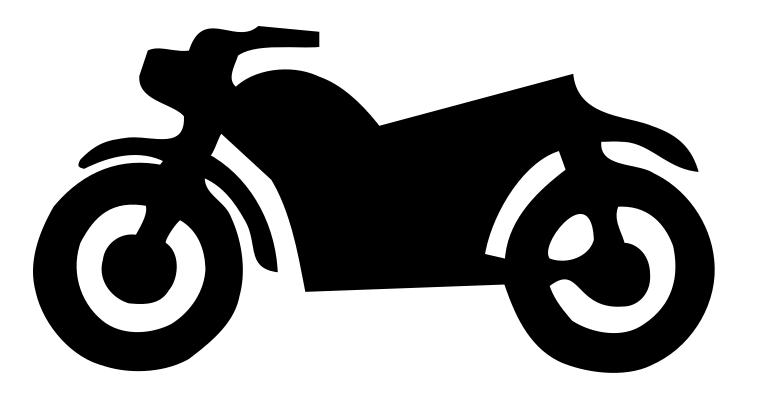
- 9 Filling fluid
- 10 Lubricant
- 11 Special tool
- 12 Tightening
- (13) Wear limit, clearance
- (14) Engine speed
- \bigcirc Ω , V, A

Illustrated symbols (6) to (2) 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
- ② Apply lightweight lithium-soap base grease
- 21) Apply molybdenum disulfide grease
- 22 Apply locking agent (THREADLOCK ®)
- 23 Use new one

INDEX

GENERALINFORMATION	GEN INFO
SPECIFICATIONS	SPEC 2
PERIODIC INSPECTION AND ADJUSTMENT	INSP ADJ
ENGINE OVERHAUL	ENG 4
COOLING SYSTEM	ENG 5
CARBURETION	CARB 6
CHASSIS	o√o CHAS
ELECTRICAL	ELEC 8
TROUBLESHOOTING	? TRBL 9





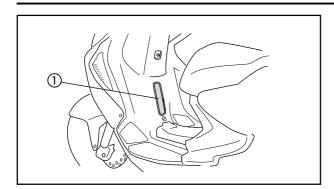


CHAPTER 1. GENERAL INFORMATION

SCOOTER IDENTIFICATION	1-1
VEHICLE IDENTIFICATION NUMBER	1-1
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IMPORTANT INFORMATION	1-2
ALL REPLACEMENT PARTS	1-2
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LOCK WASHERS/PLATES AND COTTER PINS	1-2
BEARINGS AND OIL SEALS	
CIRCLIPS	1-3
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SCOOTER IDENTIFICATION





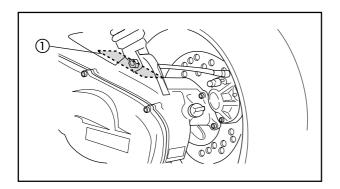
GENERAL INFORMATION SCOOTER IDENTIFICATION

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: -

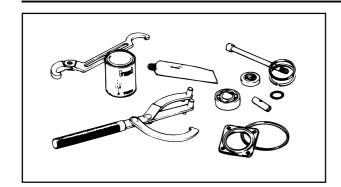
The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.

NOTE: _

Designs and specifications are subject to change without notice.

IMPORTANT INFORMATION

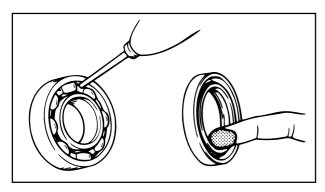




IMPORTANT INFORMATION

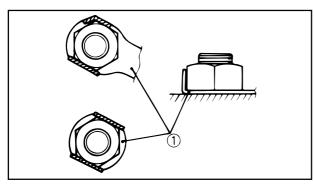
ALL REPLACEMENT PARTS

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.



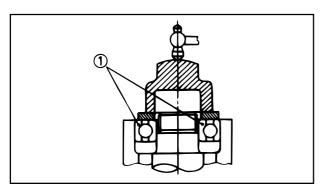
GASKETS, OIL SEALS, AND O-RINGS

- 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.



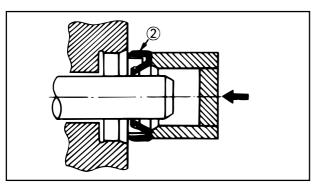
LOCK WASHERS/PLATES AND COTTER PINS

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.

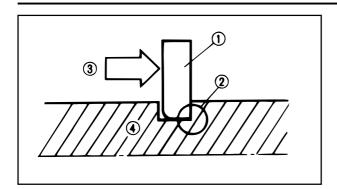


CAUTION:

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

IMPORTANT INFORMATION





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

SPECIAL TOOLS



EB102000

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.

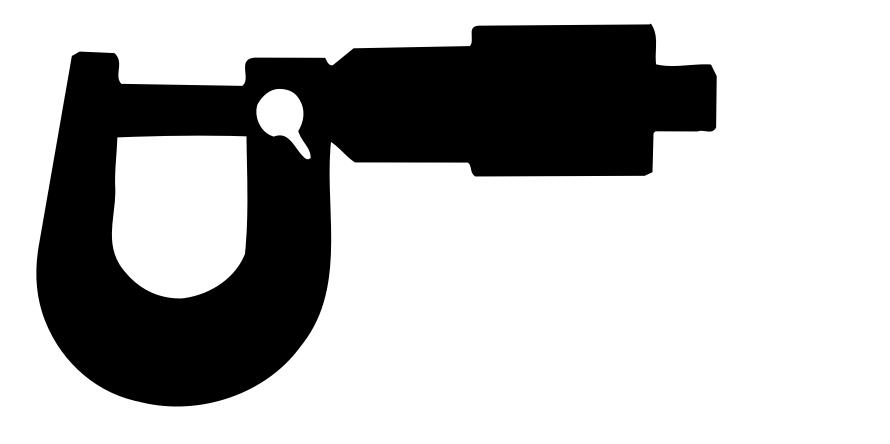
When placing an order, refer to the list provided below to avoid any mistakes.

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





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



SPEC



CHAPTER 2. SPECIFICATIONS

GENERAL SPECIFICATIONS	2-1
MAINTENANCE SPECIFICATIONS	2-4
ENGINE	2-4
CHASSIS	2-6
ELECTRICAL	2-7
CABLE ROUTING	2-8





SPECIFICATIONS

GENERAL SPECIFICATIONS

Dimensions: Overall length Overall width Overall height Seat height Wheelbase Minimum ground clearance Basic weight: With oil and full fuel tank Winimum gradius: Isom m Minimum turning radius: Isom m Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Single cylinder, horizontal Displacement Bore x stroke Compression ratio Starting system Lubrication system: Separate lubrication (Yamaha Autolube) Oil type or grade: Engine oil: API TC TSC 3 Standard. SAE 10W30 type SE motor oil Oil capacity: Transmission oil Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Tank capacity Type Regular unleaded gasoline with a research octane number of 91 or higher. Total higher. Total on the capacity over the content of the capacity of th	Model	YQ50
Overall width Overall height Seat height Wheelbase Minimum ground clearance Basic weight: With oil and full fuel tank Minimum turning radius: Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system 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: Periodic oil change Total amount Total amount (Including all routes) Type Regular unleaded gasoline with a research octane number of 91 or higher.	Dimensions:	
Overall height Seat height Wheelbase Minimum ground clearance 185 mm Minimum ground clearance 185 mm Minimum turning radius: Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Lubrication system: Separate lubrication (Yamaha Autolube) Oil type or grade: Engine oil: Semi-synthetic, in accordance with the API TC TSC 3 Standard. SAE 10W30 type SE motor oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Type Regular unleaded gasoline with a research octane number of 91 or higher.	Overall length	1.743 mm
Seat height Wheelbase Minimum ground clearance Basic weight: With oil and full fuel tank Minimum turning radius: Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Lubrication system: Separate lubrication (Yamaha Autolube) Oil type or grade: Engine oil: Transmission oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Type Regular unleaded gasoline with a research octane number of 91 or higher.	Overall width	690 mm
Wheelbase Minimum ground clearance Basic weight: With oil and full fuel tank Minimum turning radius: Engine: Type Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Lubrication system: Coil type or grade: Engine oil: Semi-synthetic, in accordance with the API TC TSC 3 Standard. Transmission oil Oil capacity: Transmission oil: Periodic oil change Total amount (Including all routes) Type Regular unleaded gasoline with a research octane number of 91 or higher.	Overall height	1.170mm
Minimum ground clearance Basic weight: With oil and full fuel tank Minimum turning radius: Insurance Insurance Basic weight: With oil and full fuel tank Minimum turning radius: Insurance Insurance I	Seat height	828 mm
Basic weight: With oil and full fuel tank Minimum turning radius: In 1,800 mm Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Lubrication system: 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 Oil capacity: Transmission oil: Periodic oil change Total amount Total amount Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.	Wheelbase	1.256 mm
With oil and full fuel tank Minimum turning radius: Insurance 1.800 mm Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Lubrication system: 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 Total amount Total amount Total amount Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.	Minimum ground clearance	185 mm
Minimum turning radius: Engine: Type Liquid-cooled 2-stroke, gasoline torque induction. Single cylinder, horizontal Uisplacement Bore x stroke Compression ratio Starting system Lubrication system: Separate lubrication (Yamaha Autolube) Oil type or grade: Engine oil: 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 Total amount Total amount Contact of the process of the proces	Basic weight:	
Engine: Type Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system 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 Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	With oil and full fuel tank	97 kg
Type Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Liquid-cooled 2-stroke, gasoline torque induction. Single cylinder, horizontal 49 cm³ 40 x 39.2 mm 7.9 : 1 (F)(B)(P)(E)(I) 8 : 1 (D)(NL)(CHE) 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 Total amount Total amount Colladiator capacity Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.	Minimum turning radius :	1.800 mm
Cylinder arrangement Displacement Bore x stroke Compression ratio Starting system Lubrication system: Coll type or grade: Engine oil: Transmission oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Air filter: Type Single cylinder, horizontal 49 cm³ 49 x 39.2 mm 7.9: 1 (F)(B)(P)(E)(I) 8: 1 (D)(NL)(CHE) Electric and kick starter Separate lubrication (Yamaha Autolube) Semi-synthetic, in accordance with the API TC TSC 3 Standard. SAE 10W30 type SE motor oil 0.11 L 0.13 L Radiator capacity Total amount (Including all routes) 1.2 L Regular unleaded gasoline with a research octane number of 91 or higher.	Engine:	
Displacement Bore x stroke Compression ratio 7.9 : 1 (F)(B)(P)(E)(I) 8 : 1 (D)(NL)(CHE) Electric and kick starter Lubrication 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 Total amount Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.	• • •	_ ·
Bore x stroke Compression ratio 7.9:1 (F)(B)(P)(E)(I) 8:1 (D)(NL)(CHE) Electric and kick starter Lubrication system: Separate lubrication (Yamaha Autolube) Oil type or grade: Engine oil: 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 Total amount Total amount Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.		•
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Starting system 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 Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.	Bore x stroke	
Starting system Lubrication system: 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 Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Compression ratio	
Lubrication system: Oil type or grade: Engine oil: Semi-synthetic, in accordance with the API TC TSC 3 Standard. Transmission oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.		` '` '
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 Total amount Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Regular unleaded gasoline with a research octane number of 91 or higher.	Starting system	Electric and kick starter
Engine oil: Semi-synthetic, in accordance with the API TC TSC 3 Standard. SAE 10W30 type SE motor oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Air filter: Wet type element Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Lubrication system:	Separate lubrication (Yamaha Autolube)
API TC TSC 3 Standard. Transmission oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) API TC TSC 3 Standard. SAE 10W30 type SE motor oil 0.11 L 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.	Oil type or grade:	
Transmission oil Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Air filter: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Engine oil:	
Oil capacity: Transmission oil: Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Air filter: Type Regular unleaded gasoline with a research octane number of 91 or higher.		
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.	Transmission oil	SAE 10W30 type SE motor oil
Periodic oil change Total amount Radiator capacity Total amount (Including all routes) Air filter: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Oil capacity:	
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.		
Radiator capacity Total amount (Including all routes) Air filter: Wet type element Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Periodic oil change	
Total amount (Including all routes) Air filter: Wet type element Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Total amount	0.13 L
Air filter: Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Radiator capacity	
Fuel: Type Regular unleaded gasoline with a research octane number of 91 or higher.	Total amount (Including all routes)	1.2 L
Type Regular unleaded gasoline with a research octane number of 91 or higher.	Air filter:	Wet type element
number of 91 or higher.	Fuel:	
number of 91 or higher.	Туре	Regular unleaded gasoline with a research octane
Tank capacity 7.0 L		number of 91 or higher.
	Tank capacity	7.0 L

GENERAL SPECIFICATIONS

SPEC	PS
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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	Front Rear Front Rear	Tubeless 130/60-13 140/60-13 PIRELLI / SL36 MICHELIN / BOPPER PIRELLI / SL36
Tire pressure (cold tire)	Front Rear	MICHELIN / BOPPER 150 kPa (1.50 kg/cm²) 150 kPa (1.50 kg/cm²)
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

Mod	٥١	YQ50
IVIOU	EI 	f Q30
Electrical:		
Ignition system		CDI
Charging system		Flywheel magneto
Battery type/model		GM4-3B, YB4L-B, FB4L-B
Battery capacity		12V 4AH
Headlight type:		Bulb
Bulb wattage / quantity:		
Headlight		12V 35W/35W x 1
Auxiliary light		12V 5W x 1
Taillight/brake light		12V 5W/21W x 1
Flasher light	Front	12V 21W x 2
	Rear	12V 10W x 2
Meter light		12V 1.2W x 3
Warning lights wattage / o	quantity:	
"OIL"		12V 1.2W x 1
"HIGH BEAM"		12V 1.2W x 1
"TURN"		12V 1.2W x 1
"Cooling warning light"		12V 1.2W x 1





MAINTENANCE SPECIFICATIONS

ENGINE

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

SPEC PP



MAINTENANCE SPECIFICATIONS

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</wear></wear>	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=""></wear>	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)	DELLORTO PHBN 12 HS #86 (F)(B)(P)(I)(E) #85 (CHE) #74 (NL)	
Main air jet (M.A.J) Jet needle (J.N)	#74 (NL) ø1.5 A21 - 2/5 (F)(B)(P)(I)(E) A12 - 3/5 (D)(CHE) A20 - 3/5 (NL)	
Needle jet (N.J)	210 GA (F)(B)(P)(I)(E)(D) 209 GA (CHE) 208 GA (NL)	
Cutaway (C.A)	3.0 4.0 (CHE)	
Pilot jet (P.J) Bypass 1 (B.P.1)	#36 #34 (CHE) 0.8	
Air screw (A.S)	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)	
Valve seat size (V.S) Starter jet (G.S.1) Engine idle speed	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	Autolube pump 2.62 mm (F)(B)(P)(I)(E) 2.5 mm (D)(NL)(CHE)	
Bore	0.5 mm	

2-5