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CHAPTER 5 CARBURETOR

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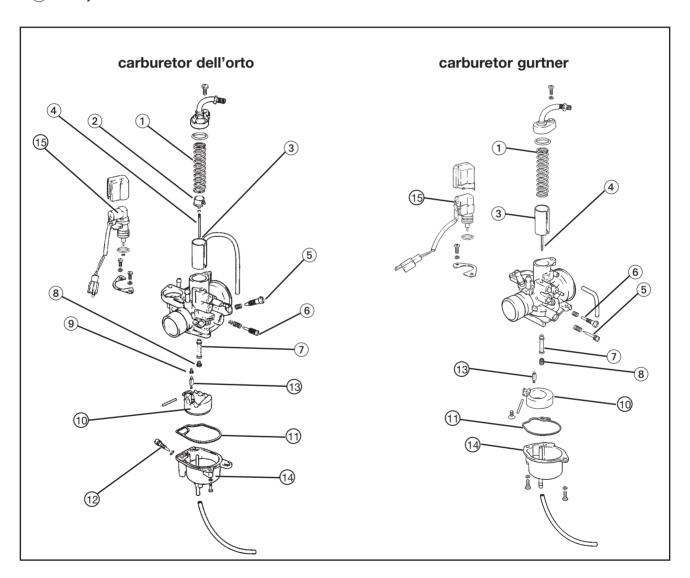
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CARBURETOR

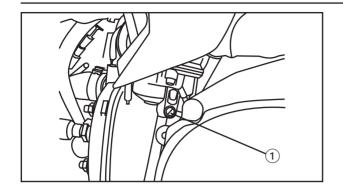
CARBURETOR

- 1) Throttle valve spring
- (2) Spring catch
- (3) Throttle valve
- (4) Jet needle
- (5) Pilot air screw
- (6) Throttle stop screw
- 7) Needle jet
- 8 Main jet

- 9 Pilot jet
- 10 Float
- 1 Float gasket
- 12 Drain screw
- (13) Needle valve
- (14) Float chamber
- (15) Autochoke unit

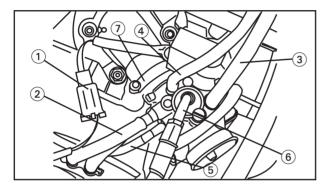






REMOVING THE CARBURETOR

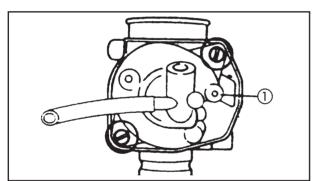
- 1. Remove:
- air filter box
- helmet box Refer to "REAR BODYWORK, MUD-GUARD" in chapter 3
- 2. Drain:
 - fuel (from drain screw (1))



- 3. Disconnect:
 - autochoke lead coupler (1)
 - fuel hose (3)
 - vacuum hose (4)
 - oil delivery hose (5)
 - throttle cable (with throttle valve) (6)
 - clamp (fixing clip) (7)

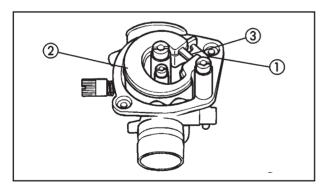


• carburetor

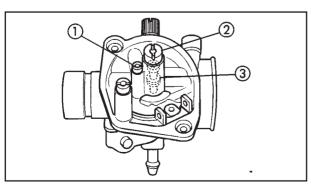


DISASSEMBLING THE CARBURETOR

- 1. Remove:
- float chamber (1)



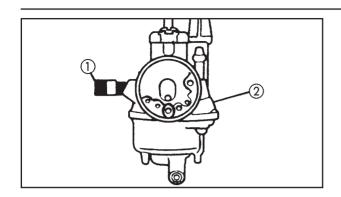
- 2. Remove:
 - float pin ①
 - float (2)
 - needle valve (3)



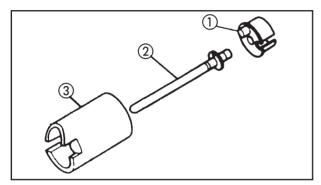
- 3. Remove:
 - pilot jet (1)
 - main jet (2)
 - needle jet (3)



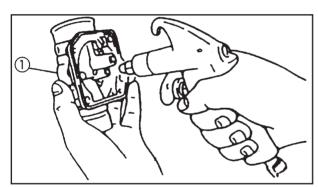




- 4. Remove:
- throttle stop screw ① (with spring, washer and o-ring)
- pilot air screw (2) (with spring)



- 5. Remove:
- spring seat (1)
- jet needle (2)
- throttle valve (3)
- throttle valve spring



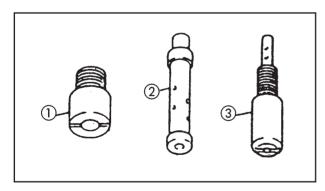
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CHECKING THE CARBURETOR

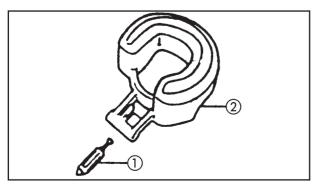
- 1. Check:
- carburetor body ①
 Dirty → Clean

NOTE: _

For cleaning, use a petrol based solvent. Clean the pipes and jets with compressed air

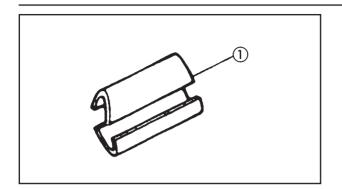


- 2. Check:
- main jet (1)
- needle jet 2
- pilot jet ③
 Dirty → Clean

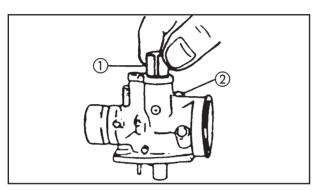


- 3. Check:
 - needle valve ①
 Wear/Dirty → Clean
 - float ②
 Damage → Change
 - gasket Damage → Change

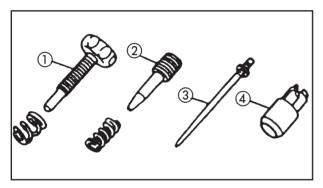




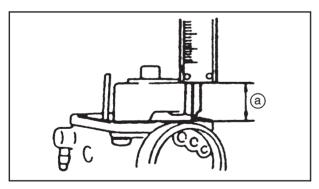
- 4. Check:
- throttle valve ①
 Wear/Damage → Change



- 5. Check:
 - throttle valve displacement Irregular movement/Catches → Change Insert the throttle valve ① in the body ② and check its displacement.



- 6. Check:
- throttle stop screw (1)
- pilot air screw (2)
- jet needle (3)
- starter plunger ④
 Wear/Damage → Change



- 7. Measure:
- Float height (a)
 Outside specifications → Check valve, float and valve seat



Float height ⓐ 15.0 mm ~ 17.0 mm

Steps for measuring the height of the float:

Assemble the valve, float and axle on the carburettor body

- Turn the carburettor upside down
- Using a vernier caliper, measure the distance between the plane of the bowl gasket (without the gasket) and the upper part of the float.

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The arm of the float should be supported on the valve without compressing it.

- If the height of the float is not within the specified limits, inspect the valve and its seat.
- Substitute both parts if any part of them is worn.
- If both are in good condition, replace the float.
- Check the height of the float again.

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The height of the float is adjusted in the factory. Do not try to modify it under any circumstances.

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ASSEMBLING THE CARBURETOR

The assembly of the carburetor is carried out following the reverse procedure to "DISAS-SEMBLY". Bear in mind the following points:

CAUTION:

- Before assembling the carburetor, wash all of the parts in a petroleum-based solvent.
- Always use new gaskets.



- jet needle (1)
- clip (2)
- throttle valve (3)
- spring seat
- spring



Jet needle clip position:

3/5 (Dell'orto)

2/3 (Gurtner)

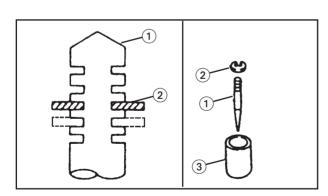
1/3 (Mofa Version)

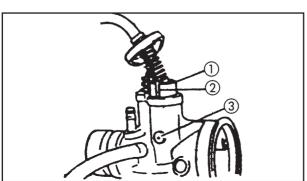


• throttle valve 1

NOTE: _____

Align the groove ② with the carburetor projection ③.







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CHECKING THE AUTOCHOKE UNIT

NOTE:

When checking the autochoke unit, the ambient temperature must be lower than 45°C (113°F).

- 1. Remove:
- carburetor
- 2. Check:
 - autochoke unit



NOTE:

When the starter plunger is open, air should come out of the other side of the starter air passage.

Starter plunger opens	Perform step (3)
Starter plunger closes	Replace the auto- choke unit.



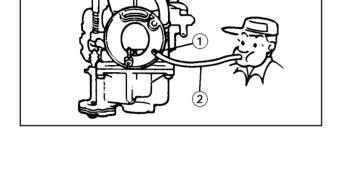
autochoke unit

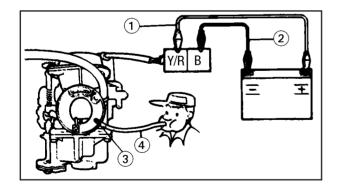
a. Connect the autochoke unit leads to a 12.0 V battery for five minutes.

Positive batter lead ① → yellow/red Negtive battery lead ② → black

b. Connect a 3.3 mm hose ③ to the starter air passage ④ and blow into the hose.

Starter plunge opens	r Replace the auto- choke unit.
Starter plunge closes	r Autochoke is OK.

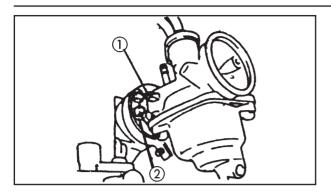


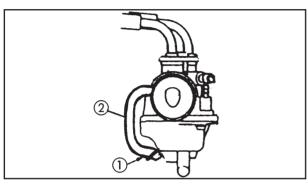


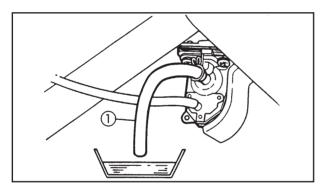
CARBURETOR/ FUEL COCK

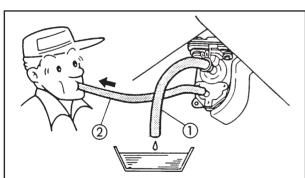












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INSTALLING THE CARBURETOR

- 1. Adjust:
- engine idling speed



Engine idling speed 1.800 rpm

Refer to "ADJUSTING HE ENGINE IDLING SPEED" in chapter 3.

- 2. Adjust:
- throttle cable free play



Throttle cable free play (at the flange of the throttle grip)
2 ~ 5 mm

Refer to "ADJUSTING HE ENGINE IDLING SPEED" in chapter 3.

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FUEL COCK

CHECKING THE FUEL COCK

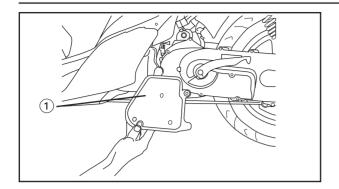
- 1. Stop the engine.
- 2. Remove:
 - helmet box Refer to chapter 3, "REAR BODYWORK, MUDGUARD" section.
- 3. Inspect:
- fuel cock

Steps for inspecting fuel cock:

- Disconnect the fuel hose (1)
- Place a receptacle under the end of the fuel hose.
- Disconnect the vacum hose ② and suction to create a vacuum
- If the fuel comes out of the fuel hose as a result of applying a vacuum and stops when the vacuum is stopped, the cock is in good condition. If not, clean or replace the vacuum hose, the fuel hose and cock.

REED VALVE





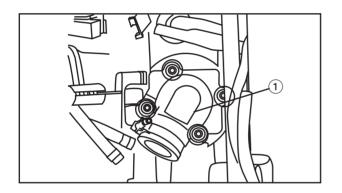
REED VALVE

REMOVING THE REED VALVE

- 1. Remove:
- helmet box Refer to "REAR BODYWORK, MUD-GUARD" in chapter 3.
- air filter box assembly (1)

2. Remove:

 carburetor
 See section "REMOVING THE CARBURE-TOR"



3. Remove:

- carburetor joint (1)
- reed valve assembly

CHECKING THE REED VALVE

- 1. Inspect:
 - carburetor joint
 Damage/Cracks → Change
 - reed valve
 Fatigue/Cracks → Change

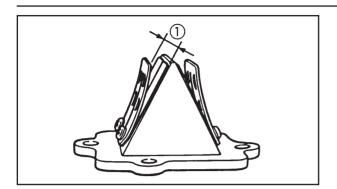
Inspection steps:

- Visually inspect the reed valve.
- If there is any doubt on how to seal, apply suction on the carburettor side.

• Leaks should be light or moderate.

REED VALVE



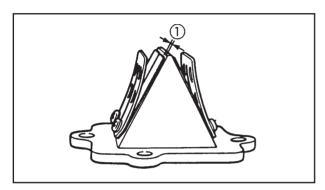




valve stopper height ①
 Out of specification → Adjust the stopper/Replace the valve stopper.



Height of valve stopper ① 6.0 ~ 6.4 mm



3. Measure:

clearance of reed valve ①
 Out of specification → Replace the reed valve.



Clearance of reed valve ① Less than 0.2 mm

INSTALLING THE REED VALVE

When the reed valve assembly is installed, reverse the removal procedure. Bear in mind the following points.

- 1. Install:
- gasket New
- 2. Tighten:
- tighten the bolts for reed valve



Reed valve 11 Nm (1.1 m • kg)

NOTE	
NOTE:	

Tighten each bolt gradually to avoid it being deformed.