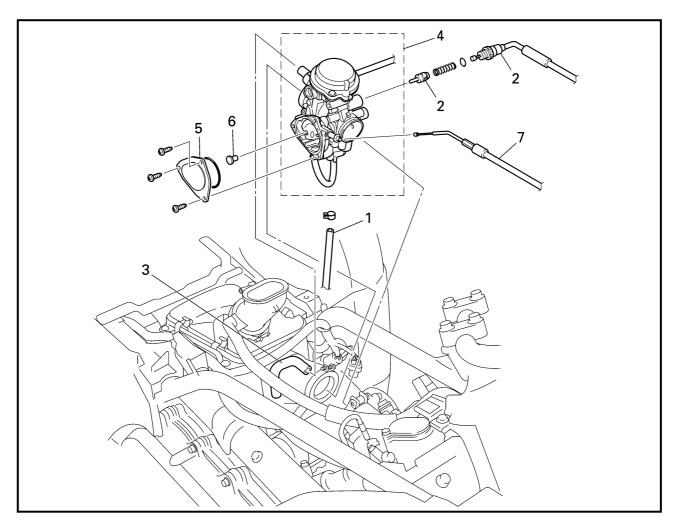


CHAPTER 6. CARBURETION

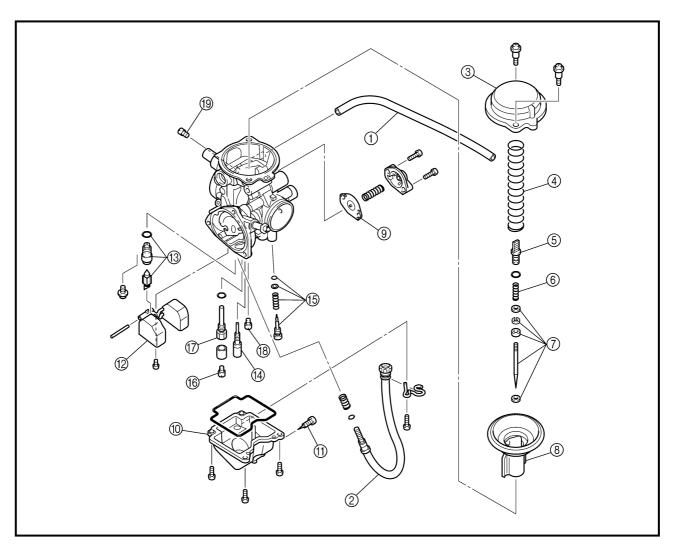
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CARBURETION

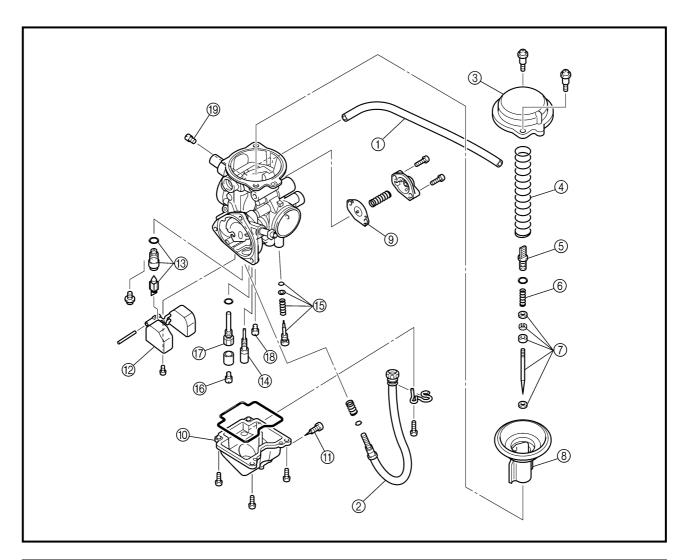
CARBURETOR



Order	Job name/Part name	Q'ty	Remarks
	Carburetor removal		Remove the parts in the order below.
	Seat/fuel tank side panels/fuel tank/ rubber cover		Refer to "SEAT, CARRIERS, FENDERS AND FUEL TANK" in CHAPTER 3.
1	Drain hose	1	
2	Starter cable/starter plunger	1/1	
3	Air vent hose	1	
4	Carburetor assembly	1	
5	Throttle valve cover	1	
6	Throttle cable end	1	
7	Throttle cable	2	NOTE: After removing the carburetor assembly, remove the throttle cable.
			For installation, reverse the removal procedure.

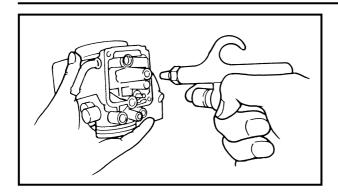


Order	Job name/Part name	Q'ty	Remarks
	Carburetor disassembly		Disassemble the parts in the order
			below.
1	Air vent hose	1	
2	Throttle stop screw	1	
3	Vacuum chamber cover	1	
4	Spring	1	
(5)	Jet needle holder	1	
6	Spring	1	
7	Jet needle set	1	
8	Piston valve	1	
9	Coasting enricher	1	
10	Float chamber	1	
11)	Drain screw	1	
12	Float	1	Refer to "CARBURETOR ASSEMBLY".
13	Needle valve set	1	



Order	Job name/Part name	Q'ty	Remarks
(14)	Pilot jet	1	
15	Pilot screw set	1	Refer to "CARBURETOR ASSEMBLY".
16	Main jet	1	
177	Needle jet	1	Refer to "CARBURETOR DISASSEM-BLY/ASSEMBLY".
18	Starter jet	1	
19	Pilot air jet	1	
			For assembly, reverse the disassembly procedure.





CARBURETOR INSPECTION

1.Inspect:

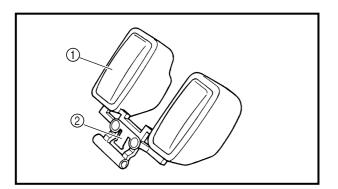
- Carburetor body
- $\bullet \mbox{ Float chamber} \\ \mbox{ Cracks/damage} \rightarrow \mbox{ Replace}.$
- Fuel passage
 Contamination → Clean as indicated.
- Fuel chamber body
 Contamination → Clean.

Cleaning steps:

 Wash the carburetor in a petroleum based solvent.

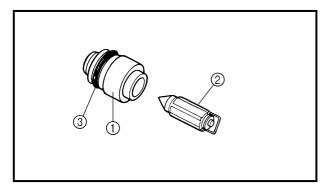
(Do not use any caustic carburetor cleaning solution.)

 Blow out all of the passages and jets with compressed air.



2.Inspect:

- Float 1
- Float tang ②
 Damage → Replace.



3.Inspect:

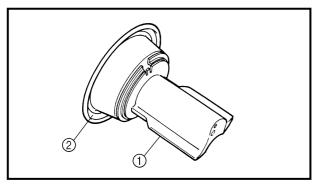
- Valve seat ①
- Needle valve 2
- \bullet O-ring $\ensuremath{\mathfrak{3}}$ Contamination/wear/damage \to Replace as a set.

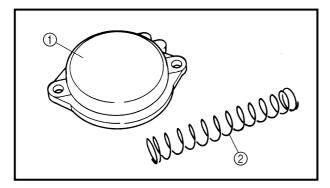
NOTE

Always replace the needle valve and valve seat as a set.

4.Inspect:

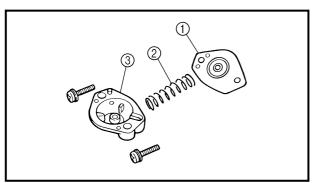
- Piston valve ① $Scratches/wear/damage \rightarrow Replace.$
- Rubber diaphragm ②Tears \rightarrow Replace.





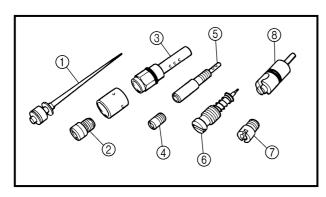
5.Inspect:

- Vacuum chamber cover (1)
- Spring 2 Cracks/damage \rightarrow Replace.



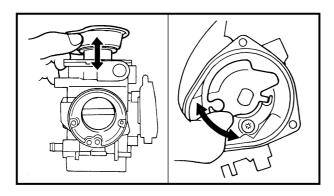
6.Inspect:

- Diaphragm (coasting enricher) ①
- Spring ②
- Cover 3Tears (diaphragm)/damage \rightarrow Replace.



7.Inspect:

- Jet needle 1
- Main jet ②
- Needle jet ③
- Pilot air jet ④
- Pilot jet ⑤
- Pilot screw (6)
- Starter jet ⑦
- Starter plunger 8 Bends/wear/damage \rightarrow Replace.
- ullet Blockage o Blow out the jets with compressed air.



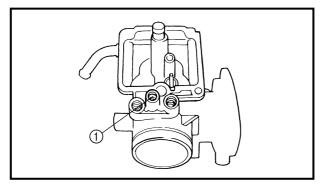
8.Check:

- Free movement (piston valve)
 Sticks → Replace the piston valve guide and the piston valve.
 Insert the piston valve into the carburetor body, and check for free movement.
- 9.Check:
- Free movement (throttle valve)
 Sticks → Replace.

CARBURETOR ASSEMBLY

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Before reassembling, wash all of the parts in a clean petroleum based solvent.

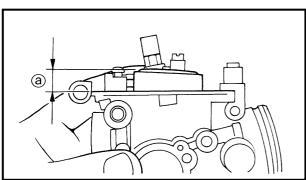


1.Install:

• Pilot screw 1



Pilot screw: 2-1/2 turns out



2.Measure:

 Float height @ Out of specification \rightarrow Adjust.



Float height (F.H.): 13 mm (0.51 in)

Measurement and adjustment steps:

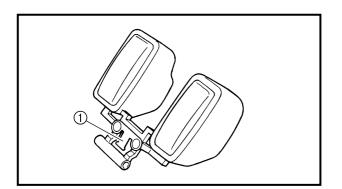
• Hold the carburetor in an upside down position.

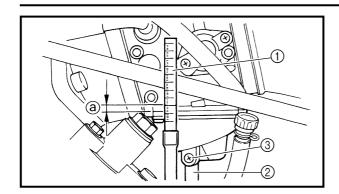
• Measure the distance from the front mating surface of the float chamber (gasket removed) to the top of the float.

NOTE:

The float arm should be resting on the needle valve, but not compressing it.

- If the float height is not within the specification, inspect the valve seat and needle valve.
- If either is worn, replace them both.
- If both are fine, adjust the float height by bending the float tang (1) on the float.
- Recheck the float height.





FUEL LEVEL ADJUSTMENT

- 1.Measure:
- Fuel level ⓐ
 Out of specification → Adjust.



Fuel level:

 $2.0 \sim 3.0 \ mm \ (0.08 \sim 0.12 \ in)$ Above the float chamber mating surface



- Place the machine on a level surface.
- ◆Connect the fuel level gauge ① to the drain pipe ②.



Fuel level gauge: P/N. YM-01312-A, 90890-01312

- Loosen the drain screw 3.
- Hold the gauge vertically next to the float chamber line.
- Measure the fuel level ⓐ with the gauge.
- If the fuel level is incorrect, adjust the fuel level.
- Remove the carburetor.
- Inspect the valve seat and needle valve.
- If either is worn, replace them both.
- If both are fine, adjust the float level by bending the float tang (4) slightly.
- Install the carburetor.
- Recheck the fuel level.

