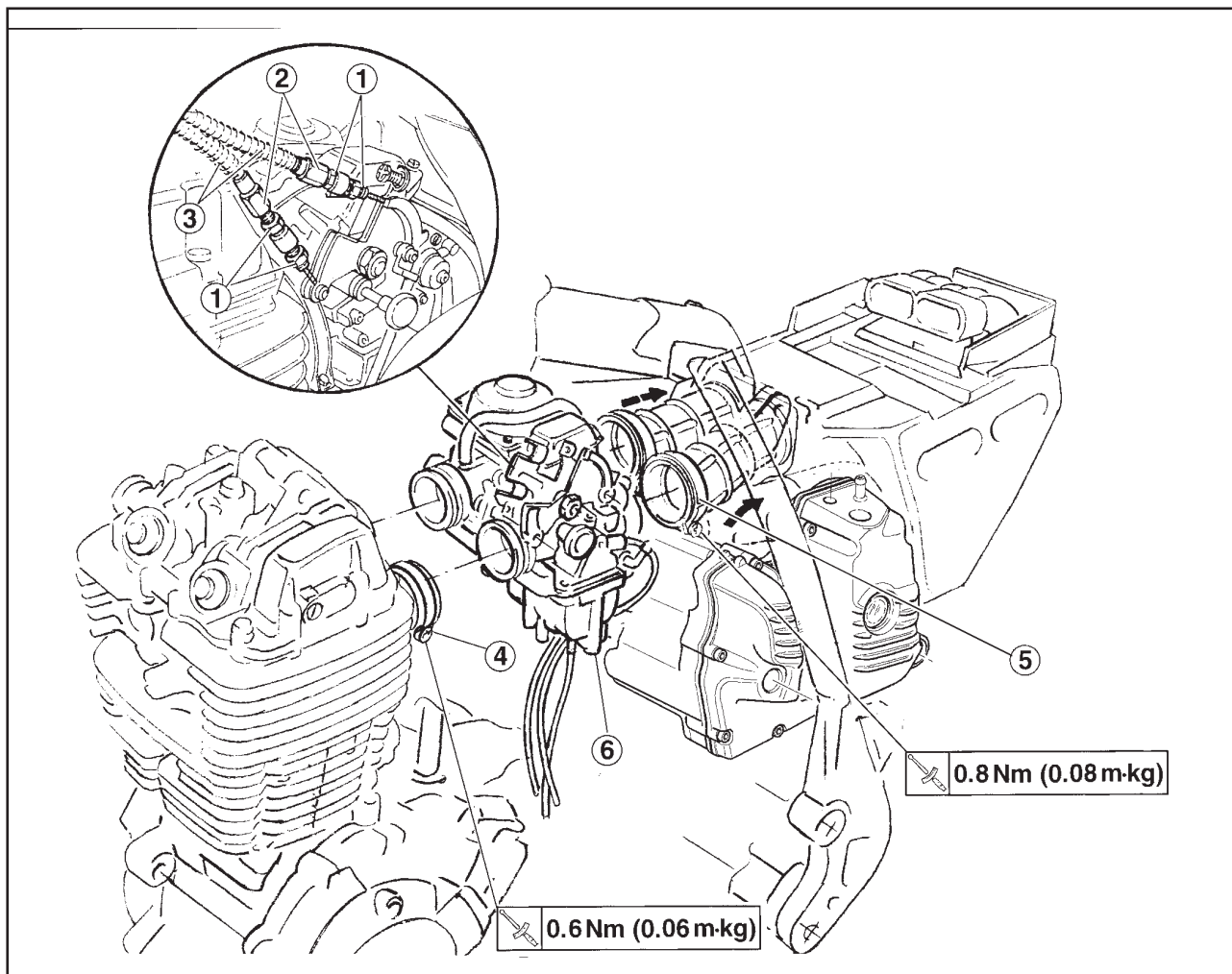


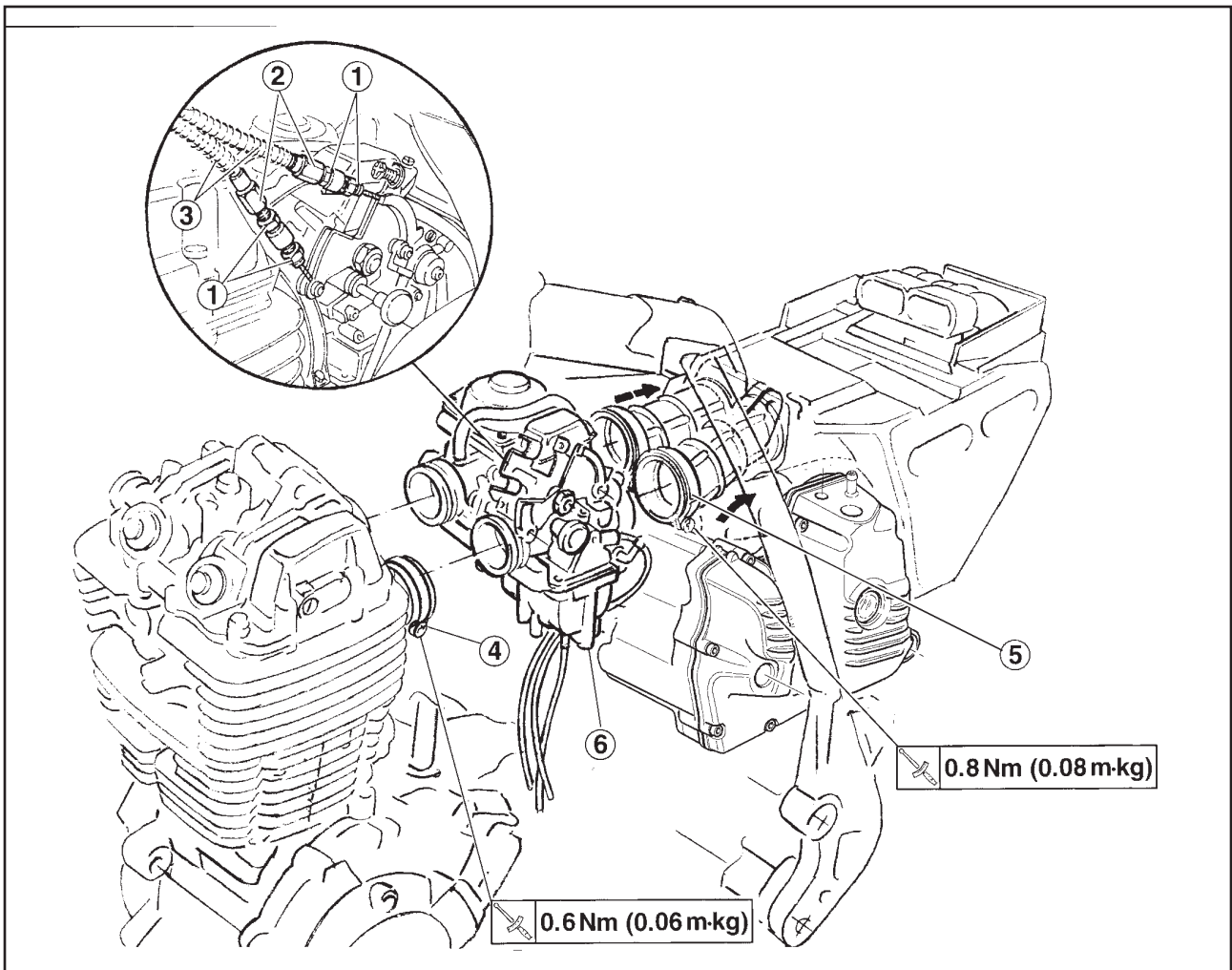


CARBURETOR

CARBURETOR REMOVAL



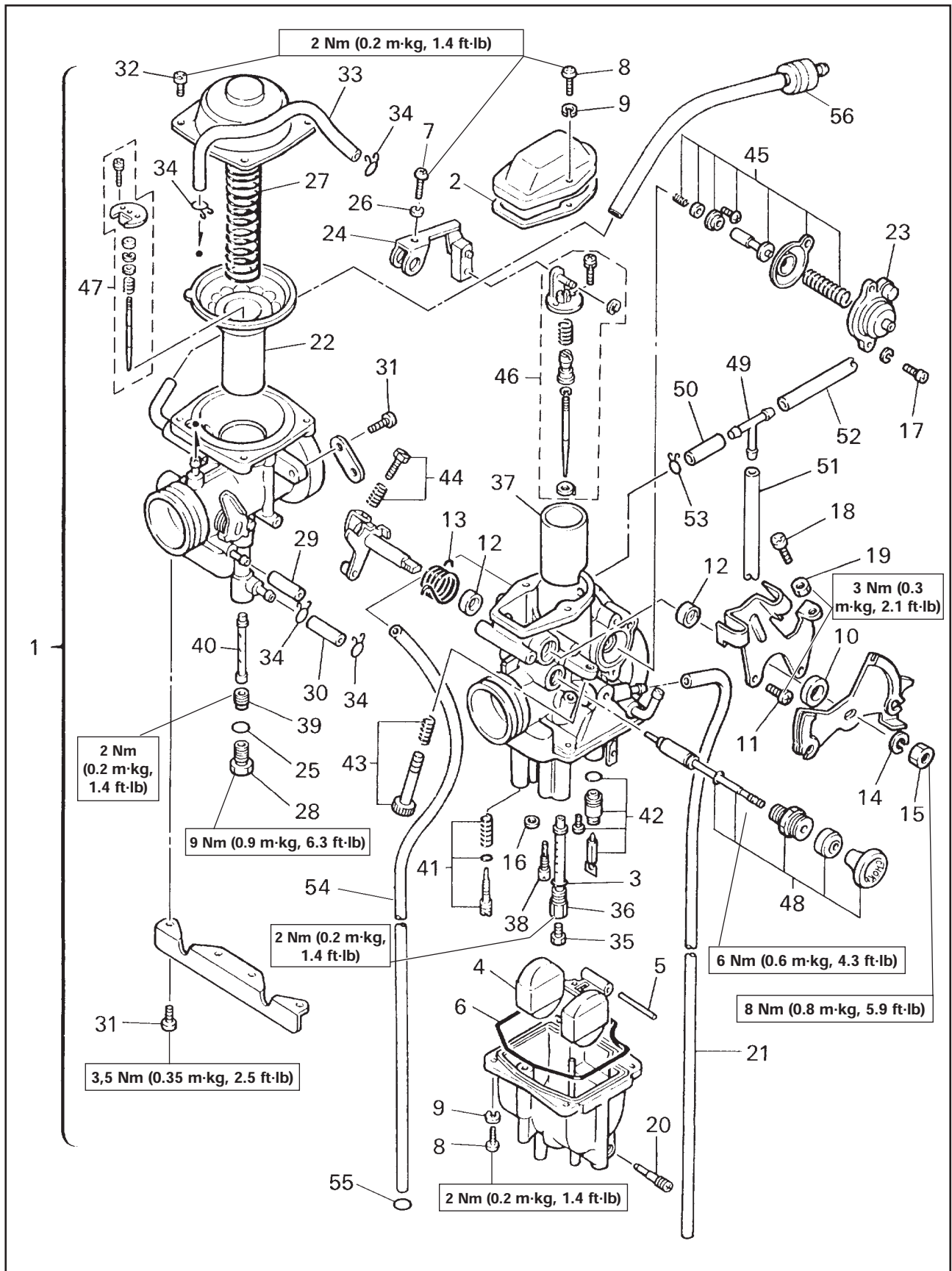
Order	Job name/Part name	Q.ty	Remarks
	Carburetor removal		Remove the parts in order.
	Seat		Refer to "SEAT, FUEL TANK AND REAR COWLING" section in CHAPTER 3.
	Fuel pipe		NOTE: _____
	Fuel tank		Be sure the cap is properly tightened and the fuel cock is in the "OFF" position before removing the fuel tank.
1	Lock nut	4	Loosen.
2	Throttle cable adjuster	2	Screw.
3	Throttle cable	2	
4	Hose clamp	2	Loosen.



Order	Job name/Part name	Q.ty	Remarks
5	Hose clamp	2	Loosen. NOTE: _____ Move carburetor manifold clamps towards the rear side.
6	Carburetor	2	Reverse the removal procedure for installation. Adjust throttle cable free play (refer to THROTTLE CABLE FREE PLAY ADJUSTMENT" section in CHAPTER 3). Adjust idle speed (refer to "IDLE SPEED ADJUSTMENT" section in CHAPTER 3).



TYPE: Y30PV-2ATK
MANUFACTURER: TEIKEI





(1) Carburetor assembly	(13) Throttle valve spring	(27) Spring	(42) Needle valve set
(2) Cover gasket	(14) Spring washer	(28) Drain valve	(43) Stop screw set
(3) Gasket, nozzle	(15) Nut	(29) Pipe	(44) Throttle screw set
(4) Float	(16) Gasket	(30) Pipe	(45) Diaphragm
(5) Float pin	(17) Screw	(31) Screw	(46) Needle set 1
(6) Float chamber gasket	(18) Stop screw	(32) Screw	(47) Needle set 2
(7) Screw	(19) Nut	(33) Pipe	(48) Starter set
(8) Float chamber fastening screw	(20) Screw	(34) Clip	(49) Way 3
(9) Spring washer	(21) Hose	(35) Main jet 1	(50) Hose
(10) Collar	(22) Diaphragm	(36) Main nozzle 1	(51) Hose
(11) Screw	(23) Cover	(37) Throttle valve	(52) Hose
(12) Gasket	(24) Bracket	(38) Pilot jet	(53) Clip
	(25) O-ring	(39) Main jet 2	(54) Breather pipe
	(26) Spring washer	(40) Main nozzle 2	(55) O-ring
		(41) Pilot screw set	(56) Pipe

SPECIFICATIONS

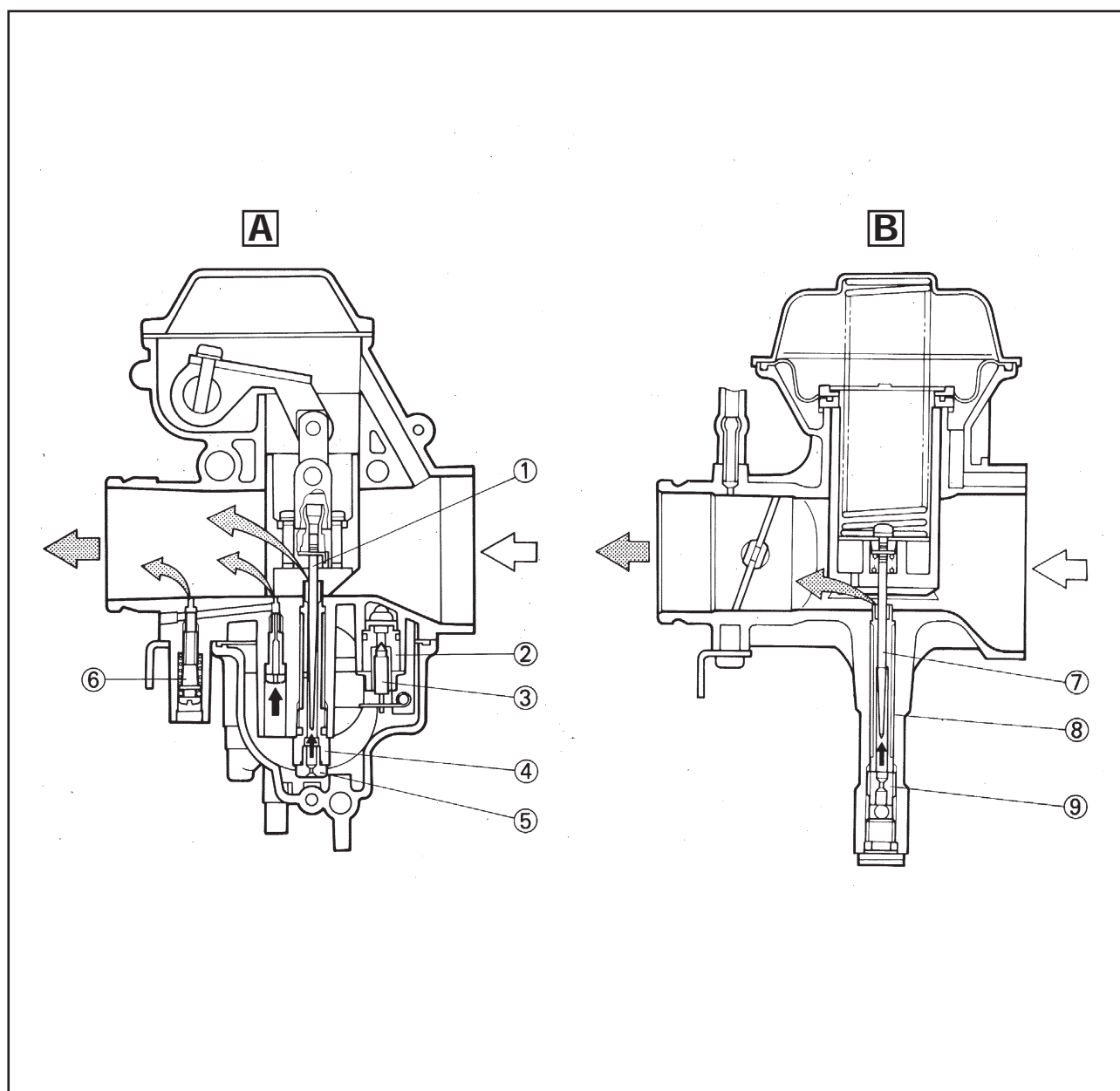
Main jet	#150 FIRST #145 SEC.
Starter jet	#74
Needle jet	5C5A-3/5 (FIRST) 5Y18-3/5 (SEC.)
Main nozzle	ø 2,6
Pilot jet	#50
Pilot air screw	2,75 ± 0,5 revs approx., open
Float height	27~29 mm
Fuel level	6~8 mm
Engine idle speed	1.150~1.450 r/min
Throttle valve seat	ø 2,5 mm

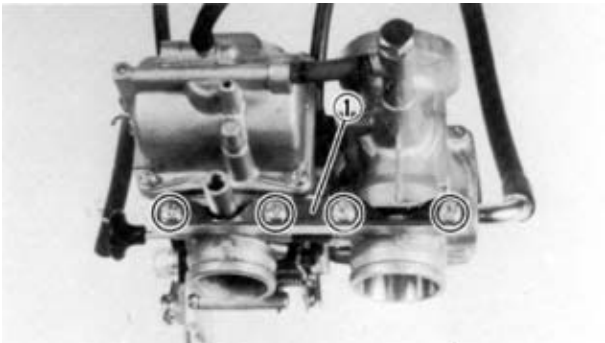


SECTION VIEW

- (1) Needle jet (primary)
- (2) Valve seat
- (3) Needle valve
- (4) Main nozzle (primary)
- (5) Main jet (primary)
- (6) Pilot air screw
- (7) Needle jet (secondary)

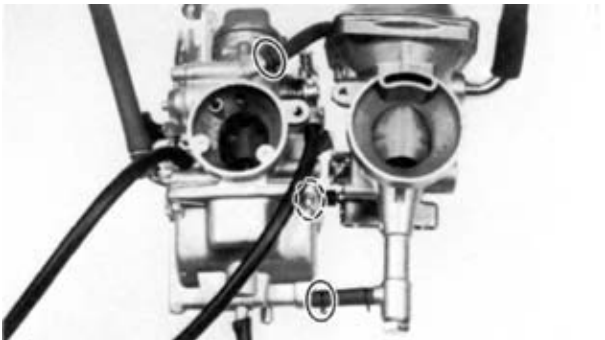
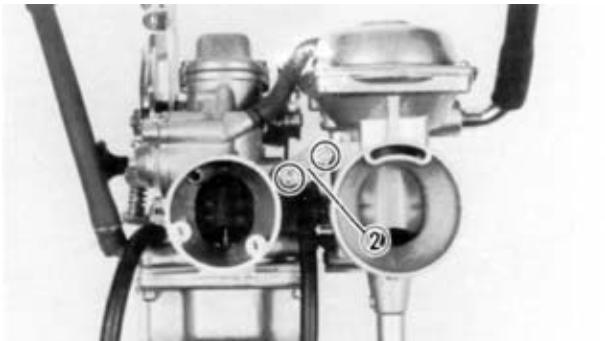
- (8) Main nozzle (secondary)
- (9) Main jet (secondary)
- [A] Primary carburetor
- [B] Secondary carburetor
- ← Air
- ← Fuel
- ← Mixture



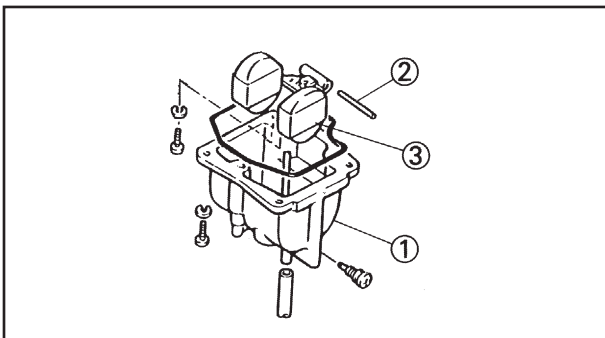


CARBURETOR DISASSEMBLY

1. Remove:
 - Support plate (1) (front)
 - Support plate (2) (rear)



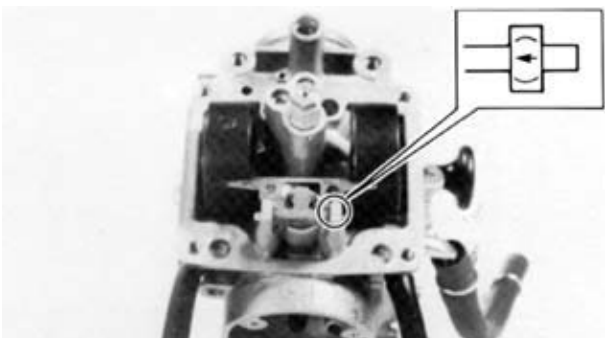
2. Separate:
 - Primary carburetor
 - Secondary carburetor

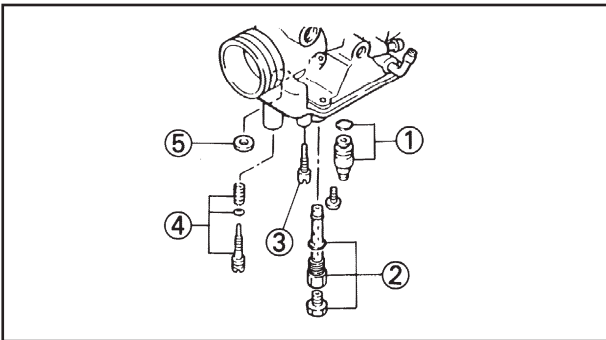


Primary carburetor

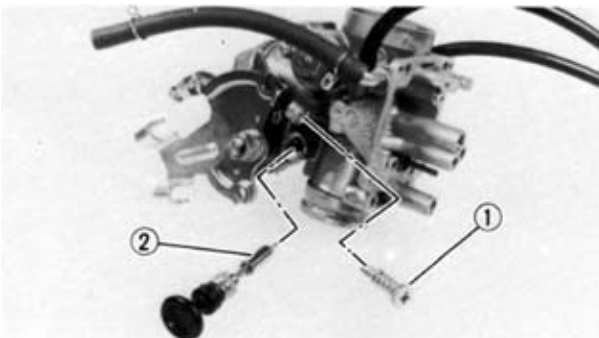
1. Remove:
 - Float chamber (1)
 - Float pin (2)
 - Float (3)

NOTE: Remove the float needle in the direction of the arrow.

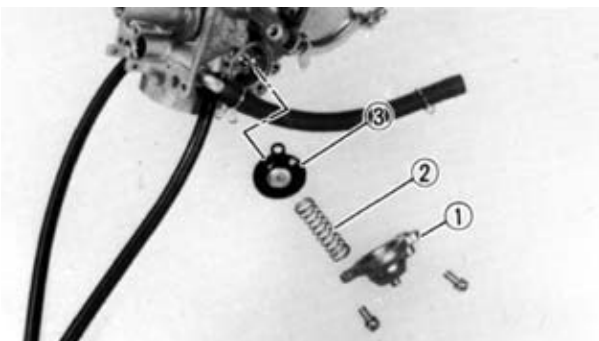




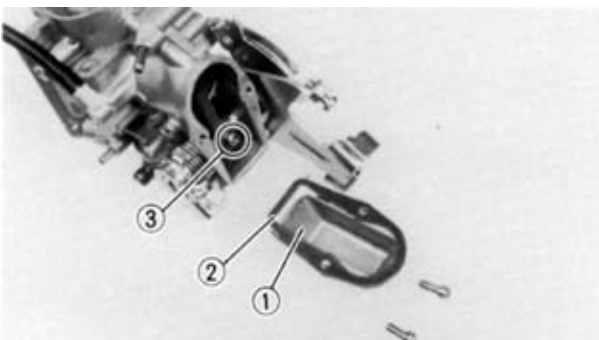
2. Remove:
 - Needle valve set/Valve seat (1)
 - Main jet/Main nozzle 1 (2)
 - Pilot jet (3)
 - Pilot screw set (4)
 - O-Ring (5)



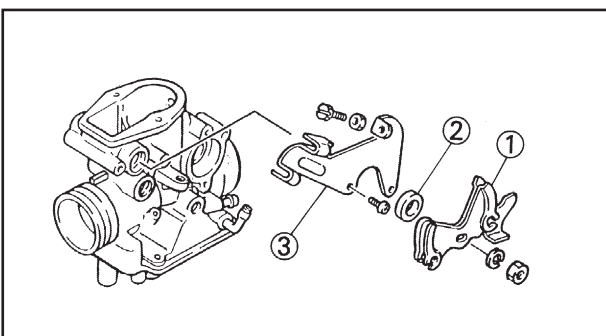
3. Remove:
 - Stop screw (1)
 - Starter set (2)



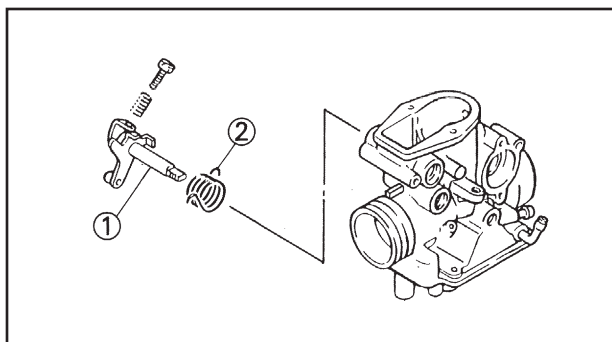
4. Remove:
 - Cover (1) (enrichment)
 - Spring (2)
 - Diaphragm (3)



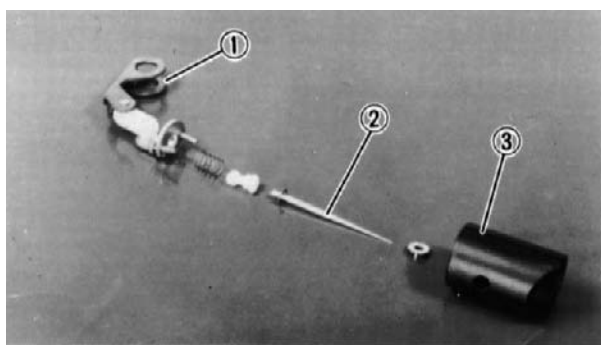
5. Remove:
 - Top cover (1)
 - Cover gasket (2)
 - Screw (3) (connector comp.)



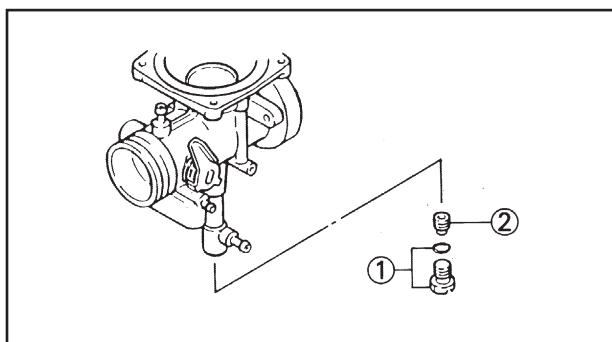
6. Remove:
 - Throttle lever (1)
 - Collar (2)
 - Cable holder (3)



7. Remove:
 - Throttle shaft (1)
 - Spring (2)

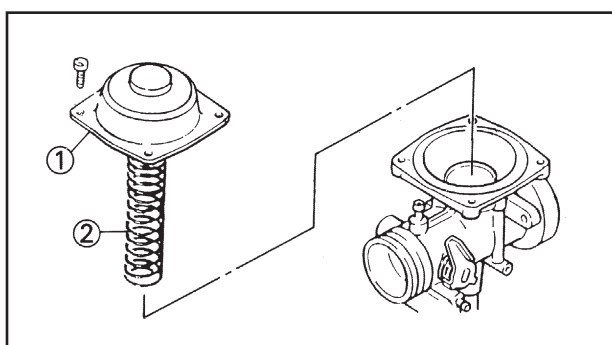


8. Remove:
 - Connector comp. (1)
 - Needle jet (2)
 - Throttle valve (3)

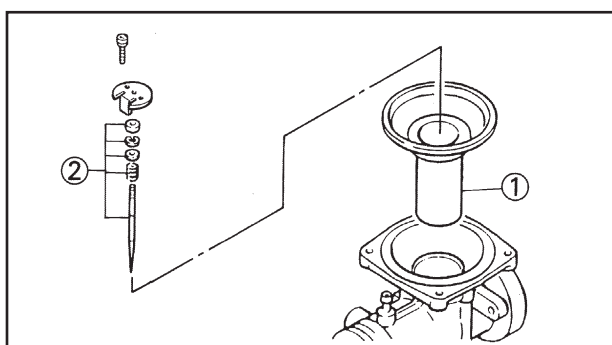


Secondary carburetor

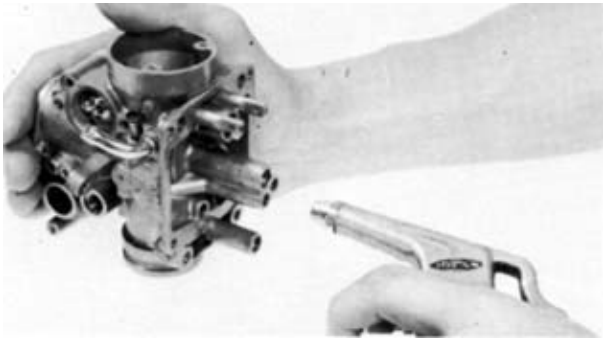
1. Remove:
 - Drain plug (1)
 - Main jet (2)



2. Remove:
 - Top cover (1)
 - Spring (2)



3. Remove:
 - Diaphragm (1)
 - Needle jet 2 (2)



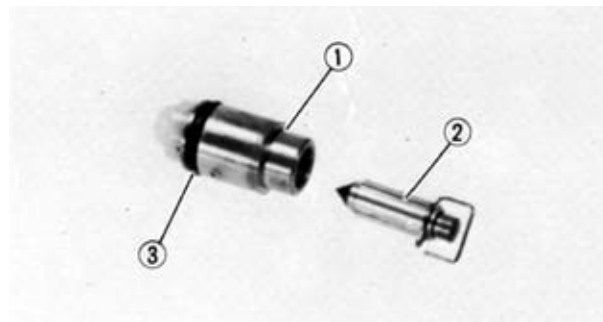
CARBURETOR INSPECTION

1. Inspect:

- Carburetor body
Soiled → Clean.

NOTE:

Use petroleum-based solutions to clean. Clean all passages and jets with compressed air.

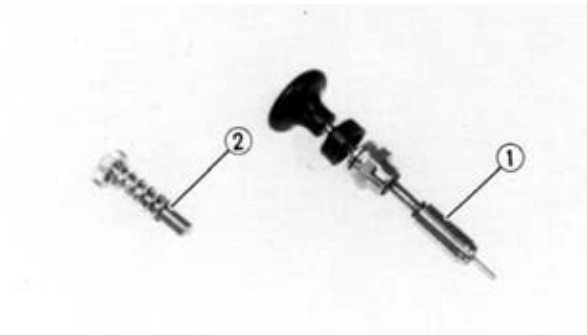


2. Inspect:

- Valve seat (1)
- Needle valve set (2)
Wear/Corrosion → Replace.
- O-Ring (3)
Damaged → Replace.

NOTE:

Always replace the needle valve set and the valve seat together.



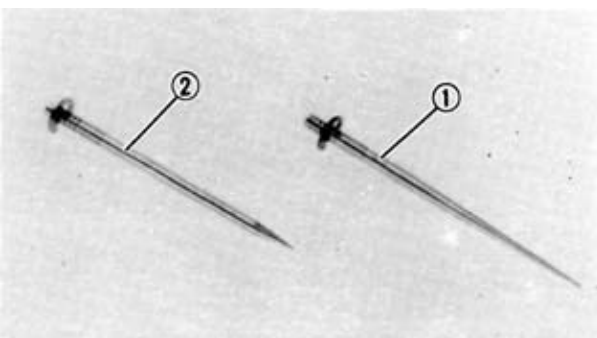
3. Inspect:

- Starter piston (1)
Wear/Damage → Replace
- Stop screw (2)
Damaged → Replace.



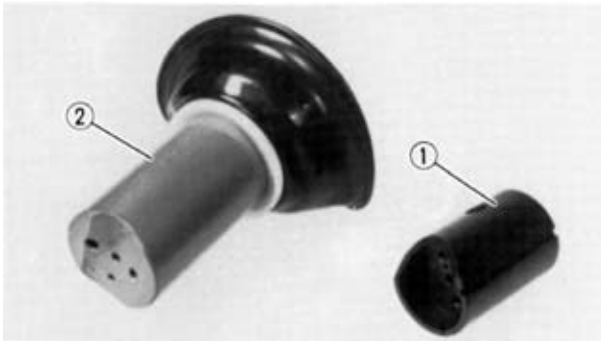
4. Inspect:

- Diaphragm (1) (piston valve)
- Diaphragm (2) (enrichment)
Damaged → Replace.



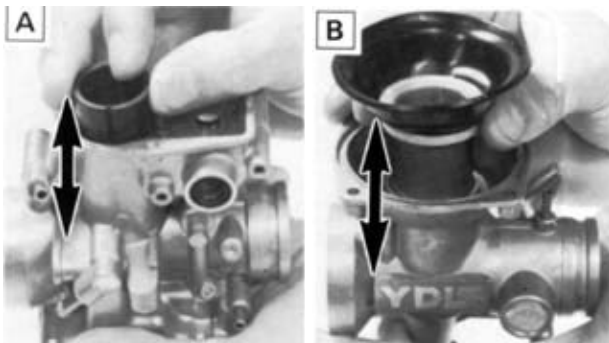
5. Inspect:

- Needle jet (1) (primary)
- Needle jet (2) (secondary)
Curvature/Wear → Replace.



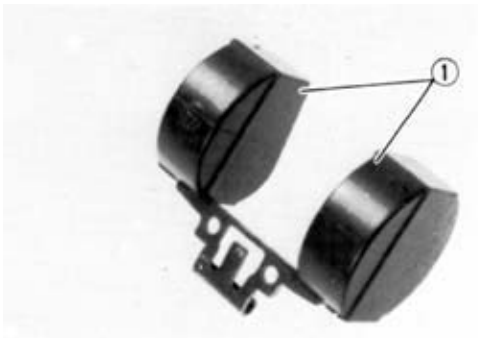
6. Inspect:

- Throttle valve (1) (primary)
- Diaphragm (2) (secondary)
ear/Damaged → Replace.



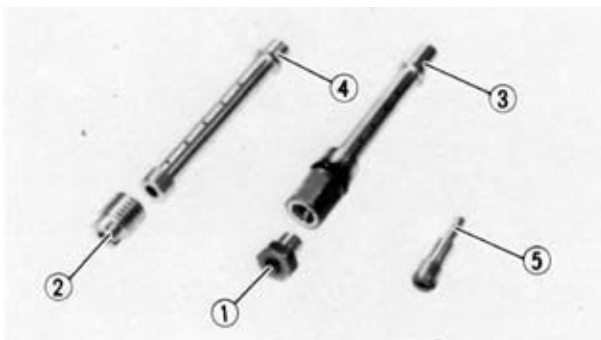
7. Check:

- Free movement
Hampered → Replace.
Fit the throttle valve and diaphragm into the carburetor body and check that movement is free.
- [A] Primary carburetor
[B] Secondary carburetor



8. Inspect:

- Float (1)
Damaged → Replace.



9. Inspect:

- Main jet (1) (primary)
- Main jet (2) (secondary)
- Main nozzle (3) (primary)
- Main nozzle (4) (secondary)
- Pilot jet (5)

NOTE:

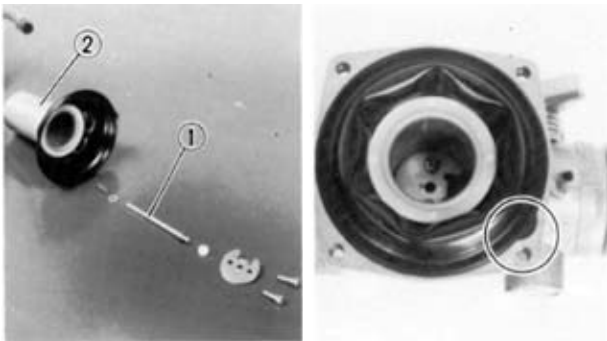
Clean jets with compressed air.

**CARBURETOR ASSEMBLY**

Perform "CARBURETOR DISASSEMBLY" operations in reverse order. Pay attention to the following points.

CAUTION:

Wash all parts with clean petrol prior to reassembly.

**Secondary carburetor**

1. Install:

- Needle jet (1)
- Diaphragm (2)
- Spring

NOTE:

Draw the diaphragm tab level with the notch on the secondary carburetor.

2. Install:

- Top cover



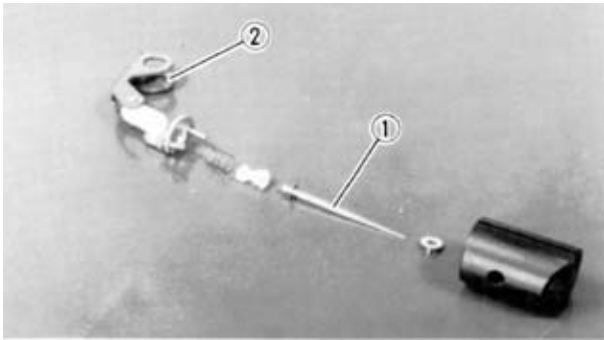
Screw (top cover):
2 Nm (0.2 mkg)

3. Install:

- Main jet (secondary)
- Drain valve



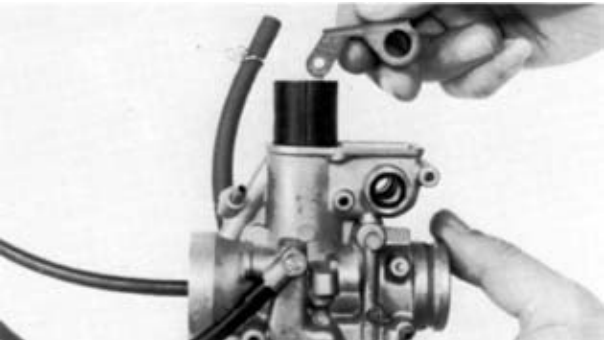
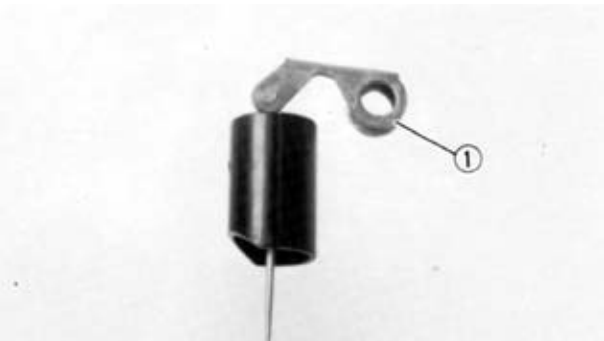
Main jet (secondary):
2 Nm (0.2 mkg)
Drain valve:
9 Nm (0.9 mkg)

**Primary carburetor**

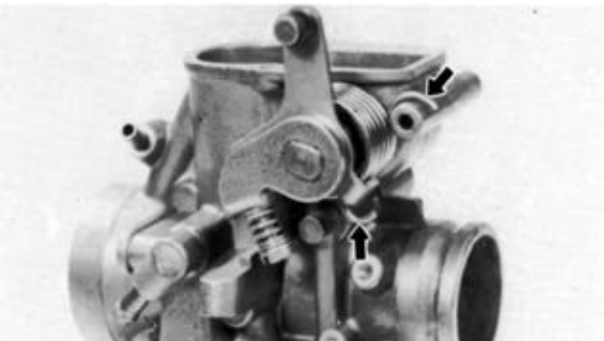
1. Install:
 - Needle jet (1)
 - Connector comp. (2)

NOTE:

Check that the connector comp. (1) is in the position shown in the figure.



2. Install:
 - Throttle valve



3. Install:
 - Spring
 - Throttle shaft

NOTE:

Assemble the spring as shown in the illustration.



4. Install:
 - Screw (connector comp.)

NOTE:

Turn the throttle shaft clockwise (1/2 turn) to pre-load the spring and then, holding it in position, assemble the screw (connector comp.).



Screw (connector comp.):
2 Nm (0.2 mkg)



5. Install:
- Cable holder
 - Collar
 - Throttle lever

NOTE:

Check that the throttle shaft lever (2) and the adjuster bolt (3) are aligned when tightening the throttle nut (1).



Screw (cable holder):
3 Nm (0.3 mkg)

6. Install:
- Top cover



Screw (top cover):
2 Nm (0.2 mkg)



7. Install:
- Diaphragm (1) (enrichment)

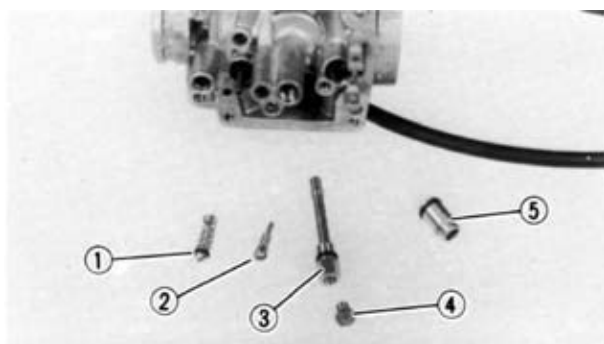
NOTE:

Make the diaphragm tab coincide with the gravity enricher notch.

8. Install:
- Starter set
 - Stop screw



Starter piston:
6 Nm (0.6 mkg)

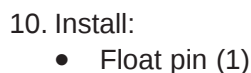


9. Install:
- Pilot screw set (1)
 - Pilot jet (2)
 - Main nozzle 1 (3)
 - Main jet (primary) (4)
 - Valve seat (5)

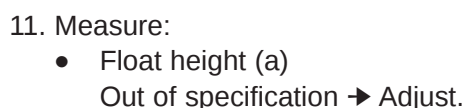


Main nozzle 1:
2 Nm (0.2 mkg)
Screw (valve seat):
2 Nm (0.2 mkg)

CARB



Assemble the float pin in the opposite direction to the arrow.

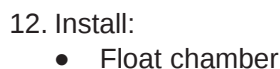


Float height:
27.0 - 29.0 mm

- Hold the carburetor upside down.
- Measure the distance from the joint plane of the float chamber (without the gasket) and the top of the float.

The float arm must rest on the needle valve without being pressed.

- If the float height is out of tolerance, check the valve seat and the needle valve.
- If either is worn, replace both.
- If both are perfect, adjust the float height by bending the wing tab of the float itself (1).
- Recheck the float height.

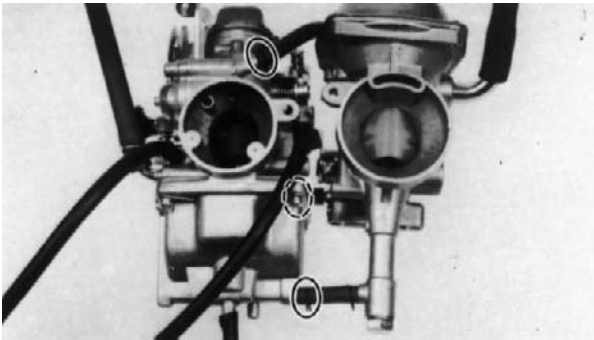


Screw (float chamber):
2 Nm (0.2 mkg)

- Adjustment:**

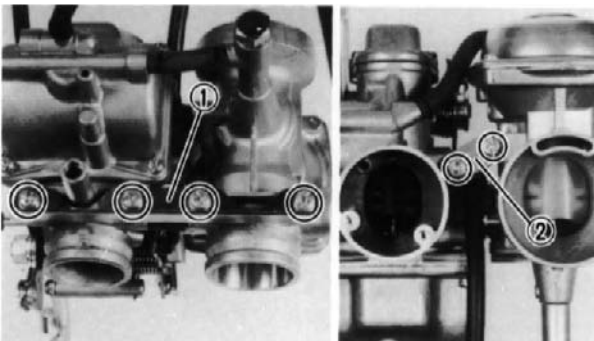
- Turn the screw until it is slightly locked.
- Unscrew by 3 and 1/2 turns.





14. Install:

- Primary carburetor
- Secondary carburetor

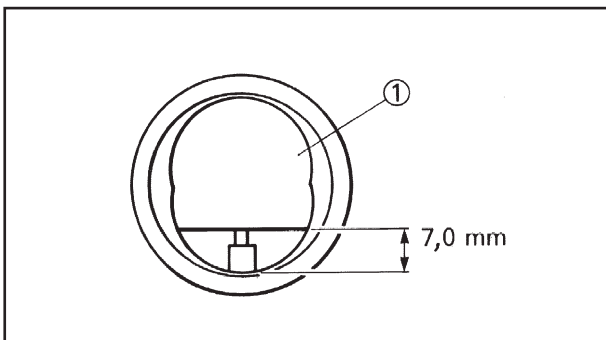


15. Install:

- Support plate (front) (1)
- Support plate (rear) (2)



Screw (support plate):
3.5 Nm (0.35 mkg)



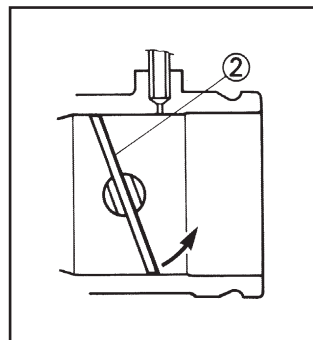
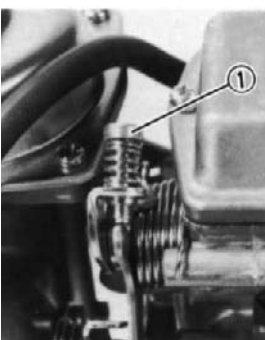
16. Adjust:

- Synchronisation of secondary carburetor

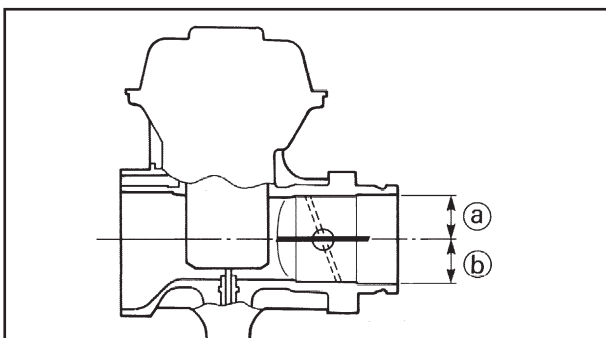


Adjustment:

- Move the primary throttle valve (1) to a height of 7.0 mm as shown in the figure.



- Tighten or loosen the synchronisation screw (1) until the secondary throttle valve (2) starts to open.



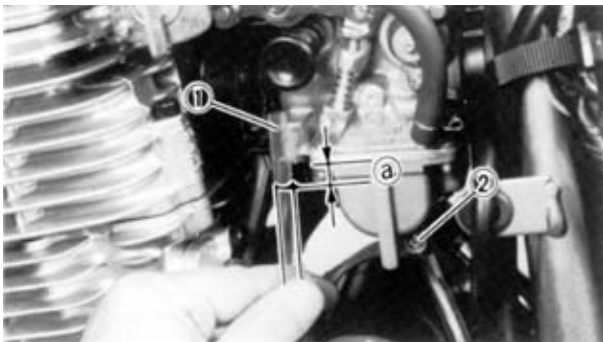
- Check that the secondary throttle valve is open horizontally (a)=(b) when the primary throttle valve is completely open





FUEL LEVEL ADJUSTMENT (CARBURETOR INSTALLED)

1. Place the motorcycle on a level surface.
2. Make sure that the carburetor is in a horizontal position by placing a hydraulic jack under the engine.



3. Connect the fuel level gauge (1) to the carburetor nipple.



Fuel level gauge:
P/N. 90890-01312

4. Loosen drain screw (2) and heat the engine.
5. Measure:
 - Fuel level (a)
 Out of specification → Adjust.



Fuel level:
6.0 ~ 8.0 mm
Under the edge of the carburetor body.

6. Adjust:
 - Fuel level



Fuel level adjustment:

- Remove carburetor assembly.
- Inspect valve seat and needle valve set.
- If either of the two is worn, replace both.
- If both are perfect, adjust float height by bending the wing tab of the float itself (1).
- Recheck the fuel level.

