









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CHAPTER 6. CARBURETION

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CARBURETOR

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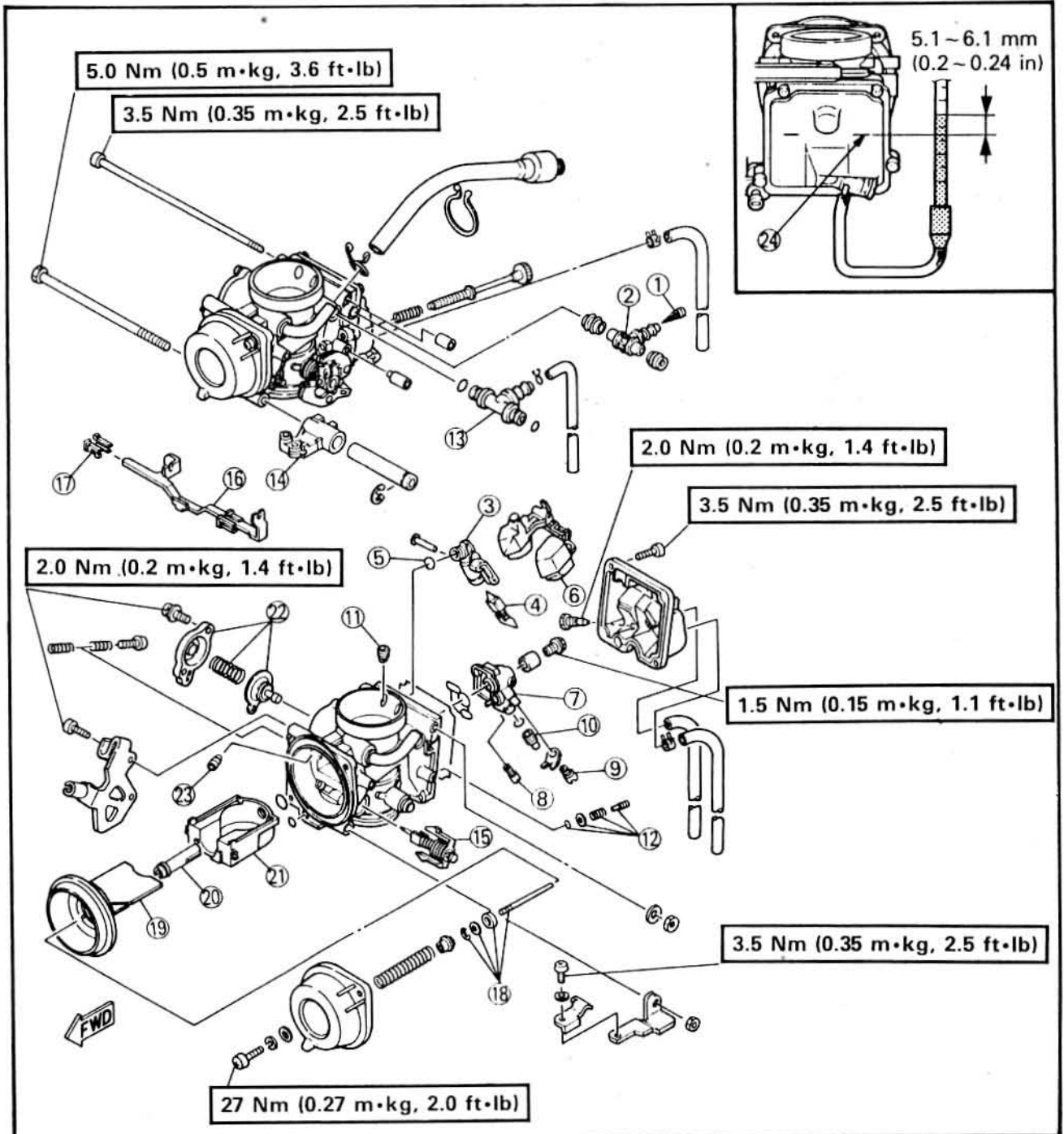


CARBURETOR

- | | |
|----------------------------|--------------------------|
| ① Fuel strainer | ⑭ Joint (starter lever) |
| ② Joint (delivery hose) | ⑮ Starter plunger |
| ③ Valve seat | ⑯ Starter joint |
| ④ Needle valve | ⑰ Stopper |
| ⑤ O-ring | ⑱ Jet needle set |
| ⑥ Floats | ⑲ Throttle valve |
| ⑦ Jet housing | ⑳ Needle jet |
| ⑧ Starter jet | ㉑ Throttle valve support |
| ⑨ Main jet | ㉒ Coasting enricher |
| ⑩ Pilot jet | ㉓ Pilot air jet 2 |
| ⑪ Pilot air jet | ㉔ Float chamber line |
| ⑫ Pilot air screw | |
| ⑬ Joint (ventilation hose) | |

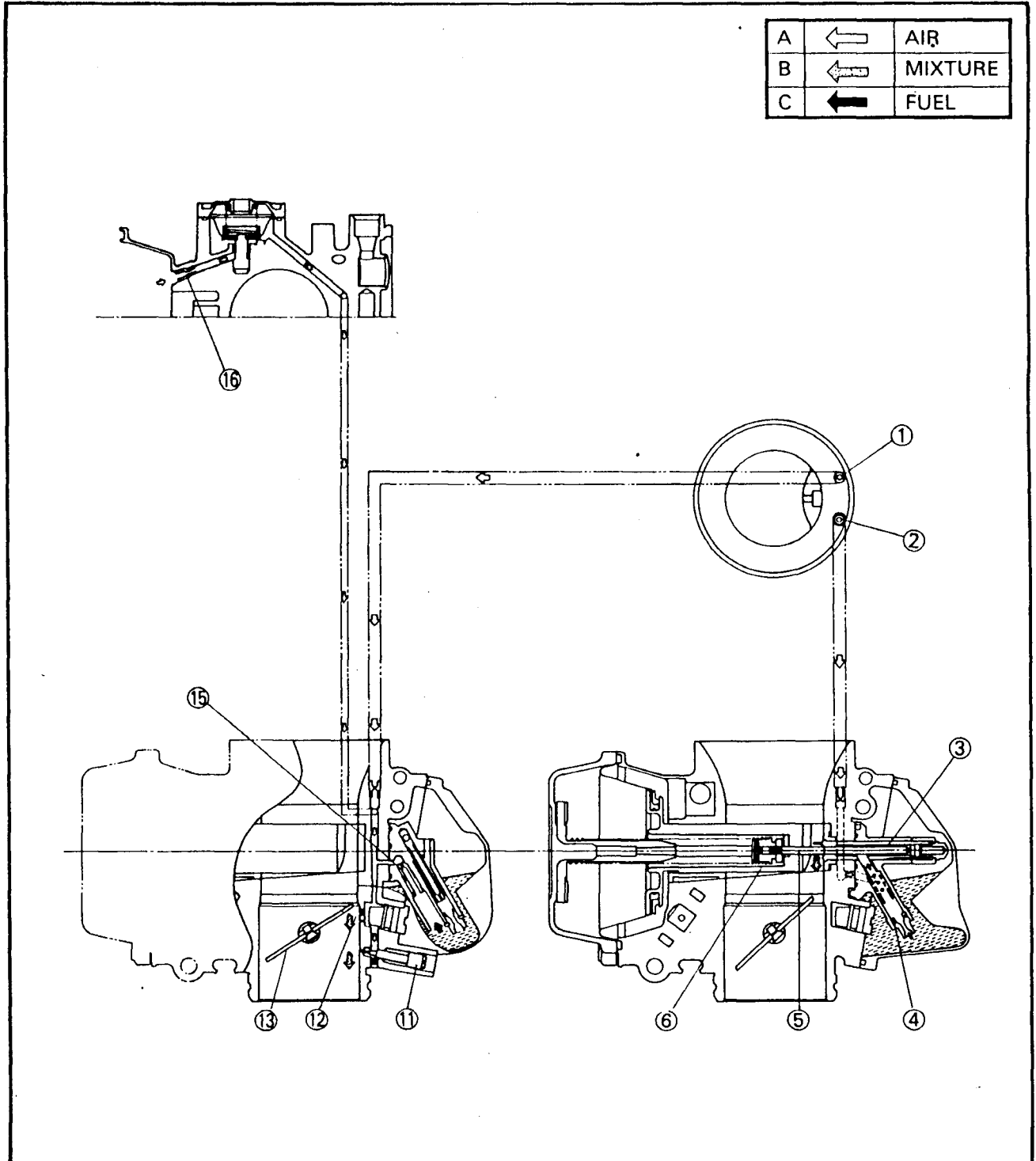
SPECIFICATIONS

ID MARK	3LD00	3TD00
MAIN JET	# 142.5	# 140
MAIN AIR JET	# 60	←
PILOT JET	# 42.5	# 35
PILOT AIR JET 1	# 60	←
PILOT AIR JET 2	φ1.4	←
JET NEEDLE	5C19-3	5C20-3
PILOT SCREW	2 Turns out	←
THROTTLE VALVE	# 130	←
ENGINE IDLE SPEED	1,100 ~ 1,200 r/min	
FUEL LEVEL [A]	5.1 ~ 6.1 mm (0.2 ~ 0.24 in)	



SECTION VIEW

- ① Pilot air jet 1
- ② Main air jet
- ③ Needle jet
- ④ Main jet
- ⑤ Jet needle
- ⑥ Piston valve
- ⑦ Joint (fuel feed)
- ⑧ Valve seat
- ⑨ Needle valve
- ⑩ Starter jet
- ⑪ Pilot screw
- ⑫ By-pass hole
- ⑬ Throttle valve
- ⑭ Starter plunger
- ⑮ Pilot jet
- ⑯ Pilot air jet 2



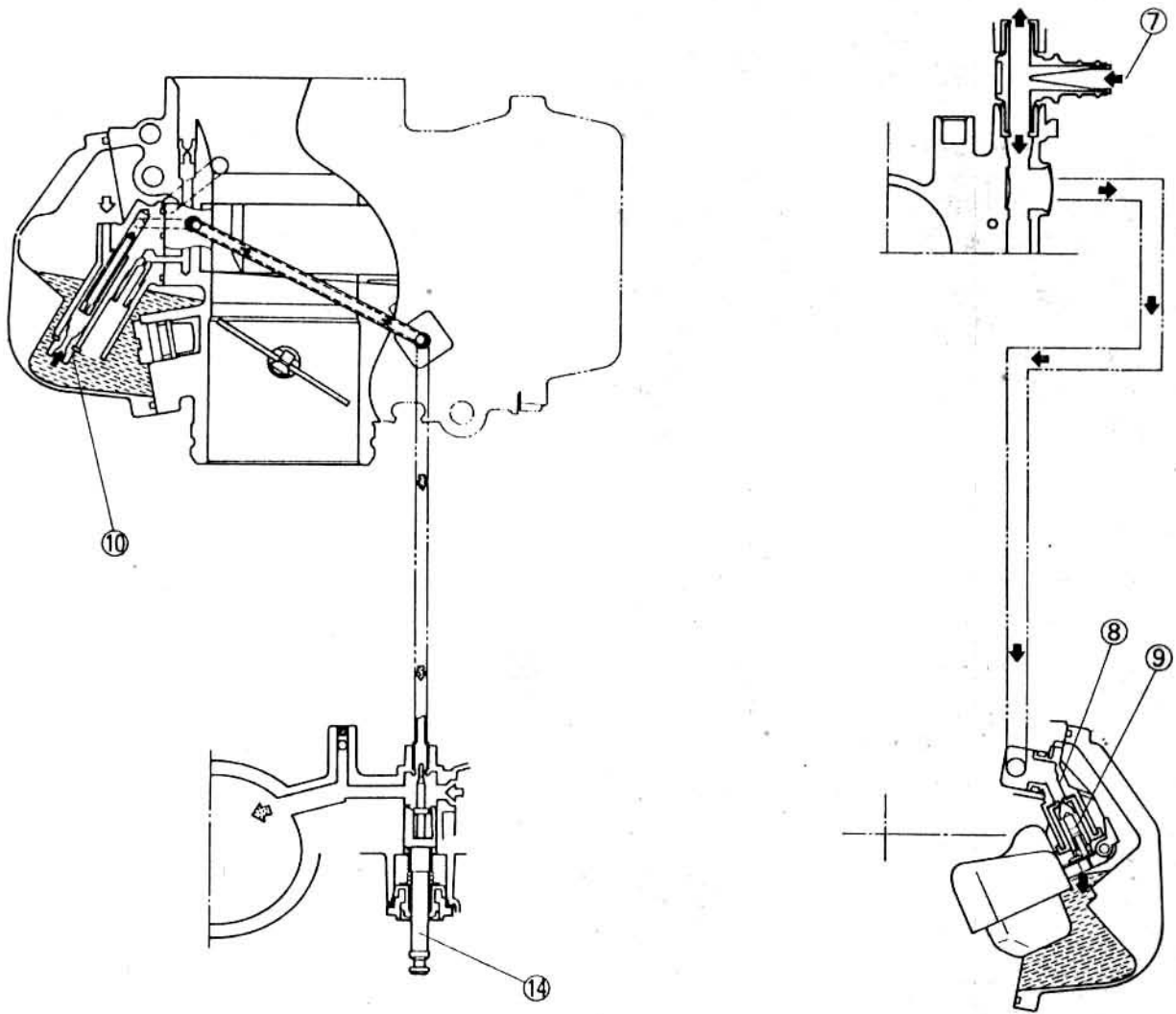
CARBURETOR

CARB



- ① Pilot air jet 1
- ② Main air jet
- ③ Needle jet
- ④ Main jet
- ⑤ Jet needle
- ⑥ Piston valve
- ⑦ Joint (fuel feed)
- ⑧ Valve seat
- ⑨ Needle valve
- ⑩ Starter jet
- ⑪ Pilot screw
- ⑫ By-pass hole
- ⑬ Throttle valve
- ⑭ Starter plunger
- ⑮ Pilot jet
- ⑯ Pilot air jet 2

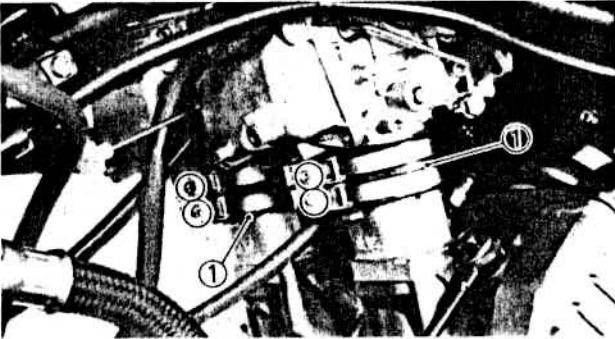
A	←	AIR
B	←	MIXTURE
C	←	FUEL





REMOVAL

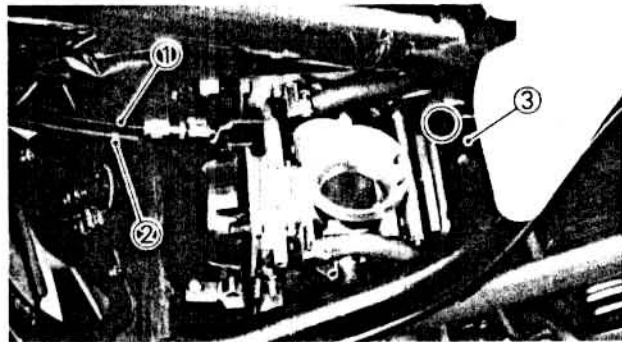
1. Remove:
 - Side cowlings
 - Side covers
 - Seat
 - Fuel tank
Refer to "SEAT, FUEL TANK AND COVER" section.
 - Air filter case



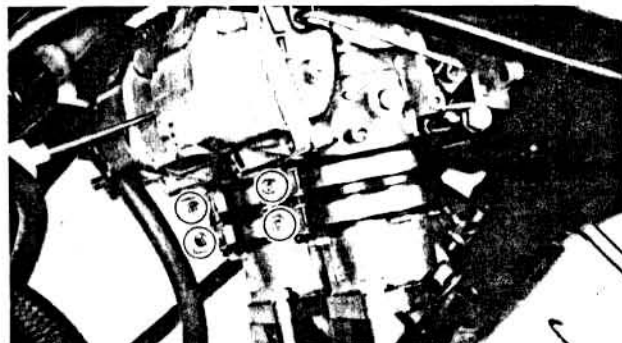
2. Loosen:
 - Screws (carburetor joint clamp — lower) ①



3. Loosen:
 - Screw (starter cable clamp)
4. Disconnect:
 - Starter cable ①



5. Disconnect:
 - Throttle cable 1 ①
 - Throttle cable 2 ②
 - Fuel hose ③



6. Remove:
 - Carburetor assembly and joints

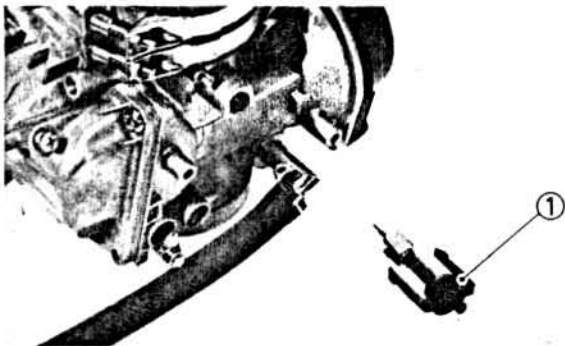
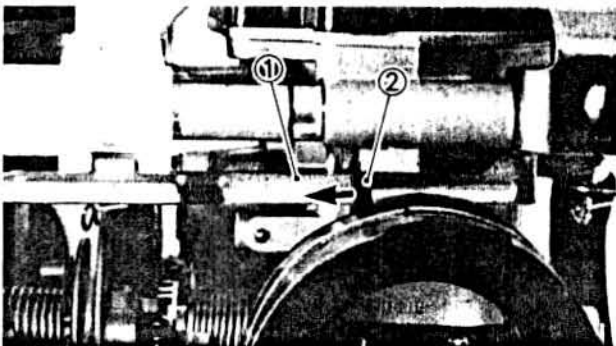
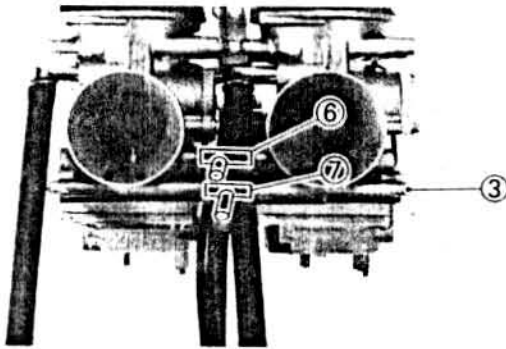
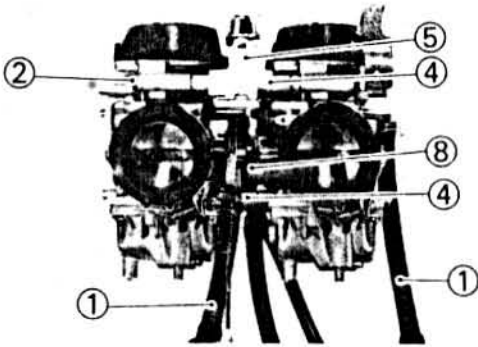


DISASSEMBLY

NOTE:

The following parts can be cleaned and inspected without carburetor separation.

- Throttle valve
- Piston valve
- Starter plunger
- Float chamber components



1. Disconnect:

- Ventilation hoses (carburetor) ①

2. Remove:

- Connecting bolt (upper) ②
- Connecting bolt (lower) ③
- Spacer collars ④
- Joint (starter lever) ⑤
- Joint (ventilation hose) ⑥ (with O-rings)
- Joint (delivery hose) ⑦ (with gasket rings)
- Spring ⑧

3. Remove:

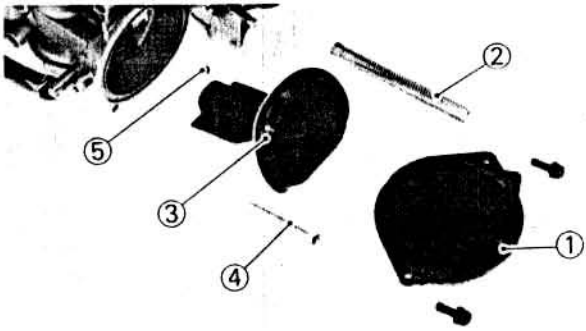
- Starter joint ①
Slide out the stoppers ② to remove the starter joint ①.

4. Remove:

- Starter plunger ①

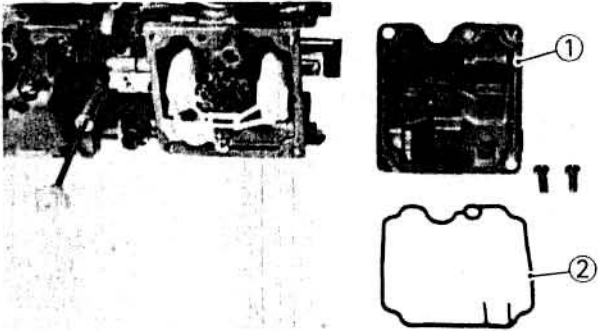
NOTE:

Unhook the hooks from the carburetor body and then pull out the starter plunger.



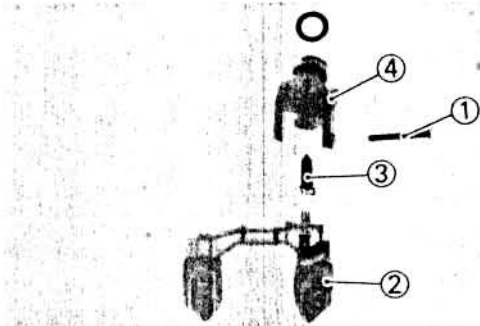
5. Remove:

- Vacuum chamber cover (1)
- Spring (2)
- Throttle valve (3)
- Jet needle (4)
- O-ring (5)



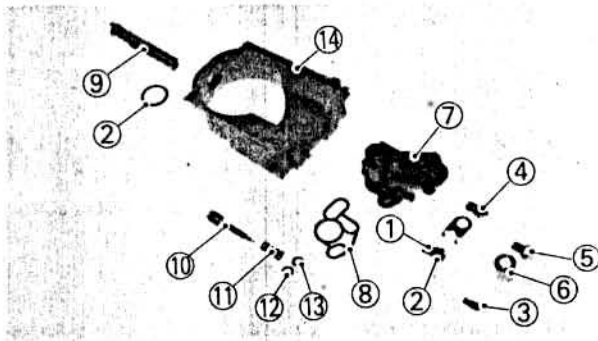
6. Remove:

- Float chamber cover (1)
- Gasket (2)



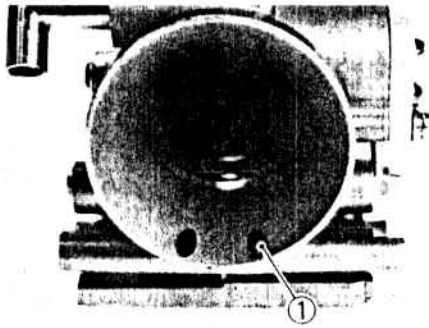
7. Remove:

- Float pin (1)
- Float (2)
- Needle valve (3)
- Valve seat (4)
- O-ring (5)

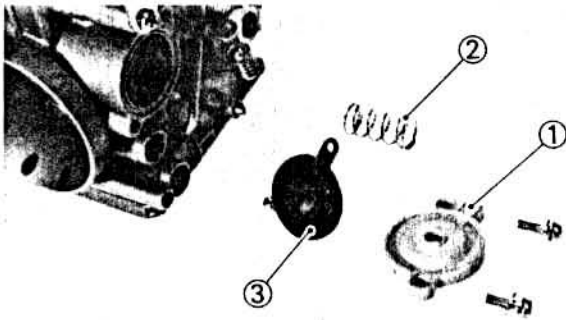


8. Remove:

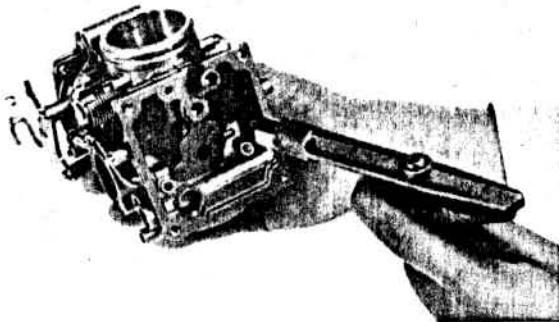
- Main jet (1)
- O-ring (2)
- Pilot jet (3)
- Starter jet (4)
- Bolt (needle jet) (5)
- Holder (needle jet) (6)
- Jet housing (7)
- Gasket (8)
- Needle jet (9)
- Pilot air screw (10)
- Spring (11)
- Washer (12)
- O-ring (13)
- Throttle valve support (14)



9. Remove:
- Pilot air jet (1)



10. Remove:
- Diaphragm cover (1)
 - Spring (2)
 - Diaphragm (3)



INSPECTION

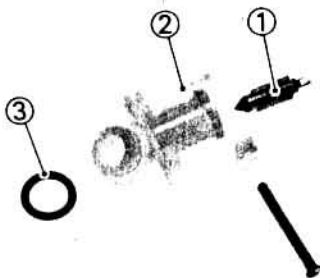
1. Inspect:
- Carburetor body
 - Float chamber
 - Jet housing
 - Cracks/Damage → Replace.
 - Fuel passage
 - Contamination → Clean as indicated.



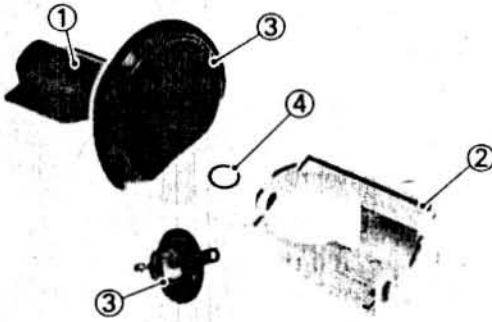
Cleaning steps:

- Wash carburetor in petroleum based solvent. (Do not use any caustic carburetor cleaning solution.)
- Blow out all passages and jets with compressed air.

2. Inspect:
- Floats
 - Damage → Replace.

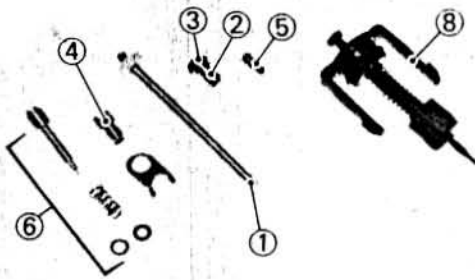


3. Inspect:
- Needle valve (1)
 - Valve seat (2)
 - O-ring (3)
 - Damage/Wear/Contamination → Replace as a set.



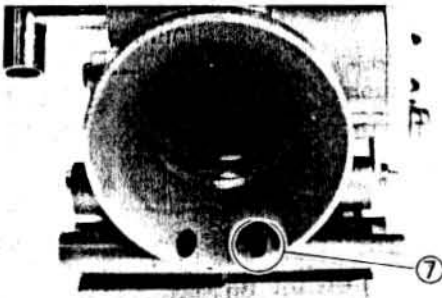
4. Inspect:

- Throttle valve ①
- Throttle valve support ②
Scratches/Wear/Damage → Replace.
- Rubber diaphragm ③
Tears → Replace.
- O-ring ④
Wear/Damage → Replace.



5. Inspect:

- Jet needle ①
- Main jet ②
- O-ring ③
- Starter jet ④
- Pilot jet ⑤
- Pilot air screw set ⑥
- Pilot air jet ⑦
- Starter plunger ⑧
Bends/Wear/Damage → Replace.
Contamination → Blow out jets with compressed air.



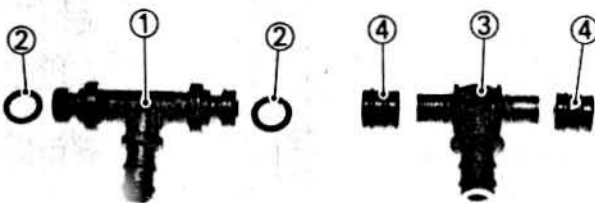
6. Check:

- Free movement
Insert the throttle valve into the carburetor body, and check for free movement.
Stick → Replace.



7. Inspect:

- Joint (ventilation hose) ①
- O-rings ②
- Joint (delivery hose) ③
- Gasket rings ④
Damage/Wear/Contamination → Replace.





ASSEMBLY

Reverse the "DISASSEMBLY" procedures.
Note the following points.

⚠ CAUTION:

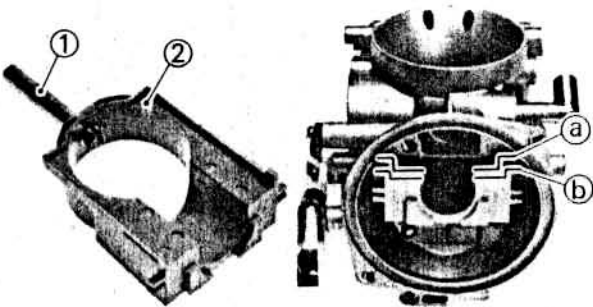
- Before reassembling, wash all parts in clean petroleum based solvent.
- Always use a new gasket.

1. Install:

- Needle jet ①
- Throttle valve support ②

NOTE:

Align the projections (a) on the valve support with the slots (b) on the carburetor body.

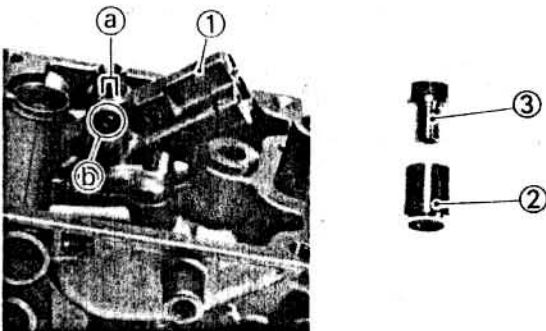


2. Install:

- Gasket
- Jet housing ①
- Holder (needle jet) ②
- Bolt (needle jet) ③

NOTE:

Align the groove (a) on the needle jet with the projection (b) on the jet housing.

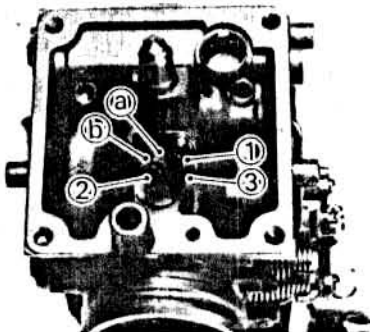


3. Install:

- Main jet ①
- Starter jet ②
- Pilot jet ③

NOTE:

- The jet with a bigger eye is main jet ①. It should be installed on position (a).
- The jet with a smaller eye is starter jet ②. It should be installed on position (b).

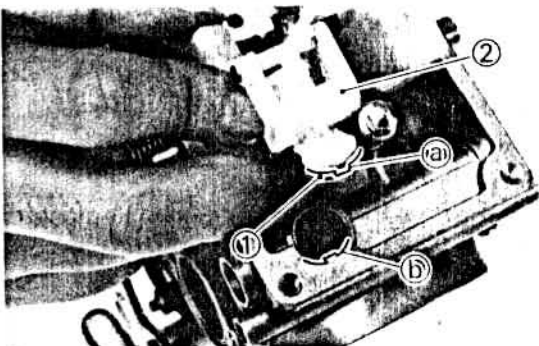


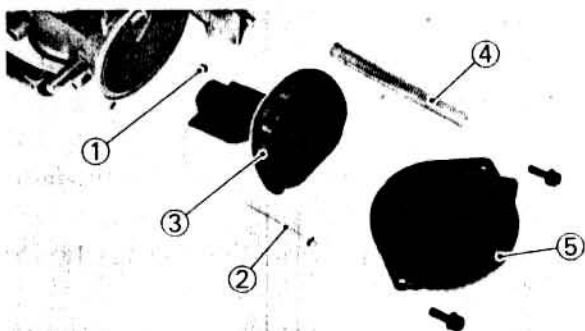
4. Install:

- O-ring ①
- Valve seat ②
- Needle valve
- Float
- Float pin

NOTE:

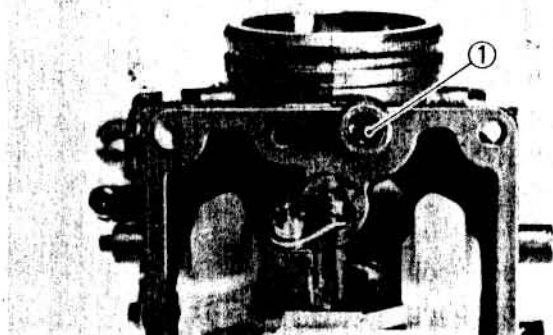
Align the projection (a) on the valve seat with the slot (b) on the carburetor body.





5. Install:

- O-ring ①
- Jet needle ②
- Throttle valve ③
- Spring ④
- Vacuum chamber cover ⑤



6. Install:

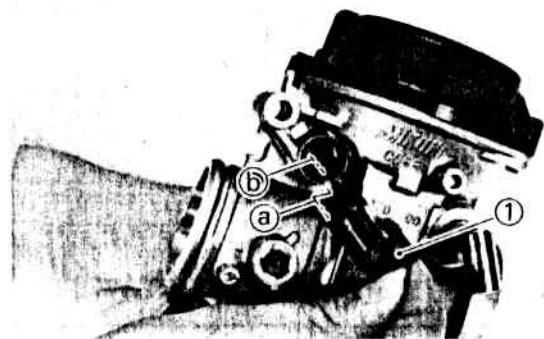
- O-ring
- Washer
- Spring
- Pilot air screw ①

Note the following installation points:

- Screw in the pilot air screw ① until it is lightly seated.
- Back out by the specified number of turns.



Pilot air screw (turns out): 2

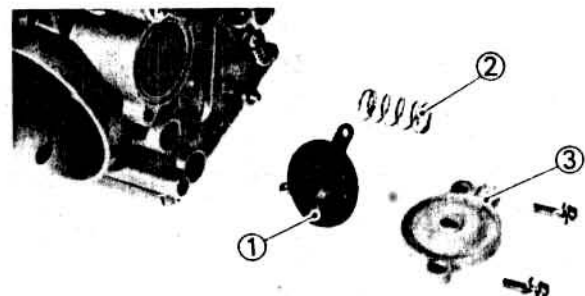


7. Install:

- Starter plunger ①

NOTE:

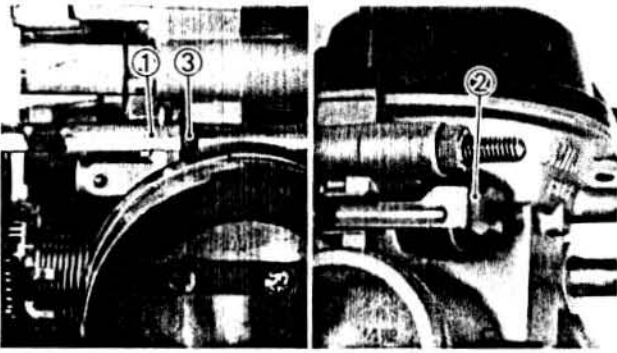
Install with the flat surface (a) of the starter plunger on that of the carburetor body (b).



8. Install:

- Diaphragm ①
- Spring ②
- Diaphragm cover ③

CARBURETOR

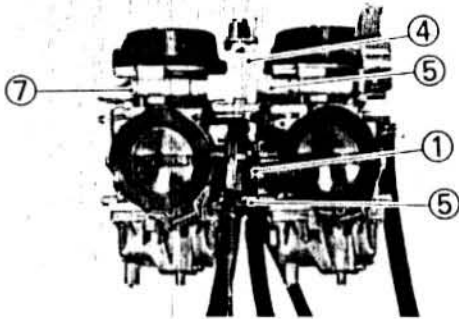
CARB

9. Install:

- Starter joint (1)

NOTE:

- Hook the starter joint arm (2) onto each starter plunger.
- Insert the stoppers (3) into the slots on the carburetor body.

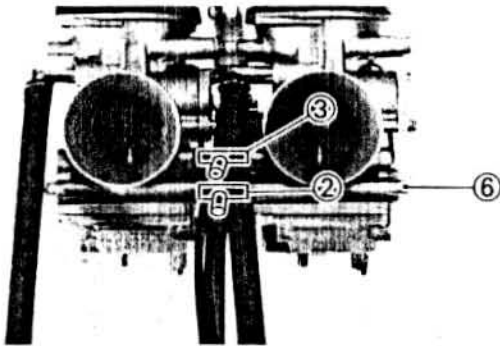


10. Install:

- Spring (1)
- Joint (delivery hose) (2) (with gasket rings)
- Joint (ventilation hose) (3) (with O-rings)
- Joints (starter lever) (4)
- Spacer collars (5)
- Connecting bolt (lower) (6)
- Connecting bolt (upper) (7)

NOTE:

- Do not tighten the connecting bolts yet.
- Insert the throttle arm (on the #1, #2, #4 carburetors) between the spring and synchronizing screw.



11. Tighten:

- Connecting bolts



Connecting bolt (upper):
35 Nm (0.35 m•kg, 2.2 ft•lb)
Connecting bolt (lower):
5 Nm (0.5 m•kg, 3.6 ft•lb)

NOTE:

- Place the carburetor assembly on a surface plate with the intake manifold side down and then tighten the connecting bolts while pushing down the respective carburetors with an even force.
- After tightening, check the throttle lever and starter joint for smooth action.



INSTALLATION

Reverse the "REMOVAL" procedure.
Note the following points.

1. Adjust:

- Carburetor synchronization
Refer to the "CARBURETOR SYNCHRONIZATION" section in the CHAPTER 3.

2. Adjust:

- Idle speed

	Engine idle speed: 1,100 ~ 1,200 r/min
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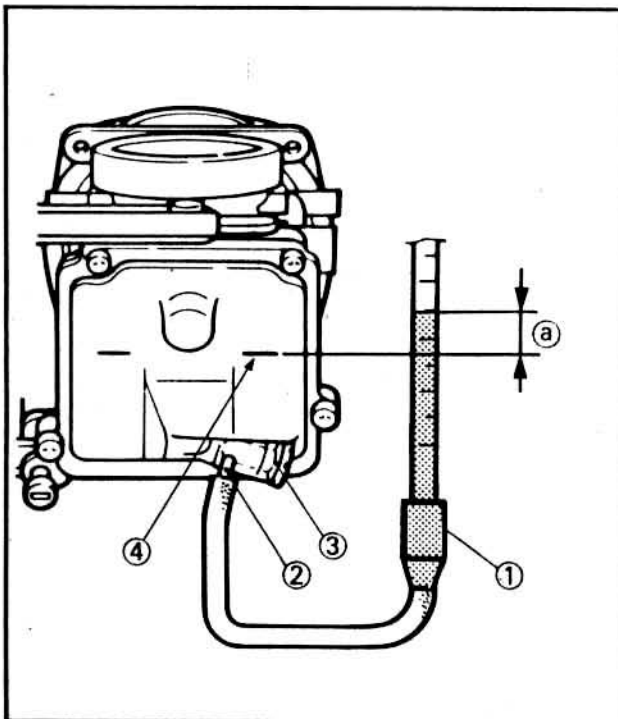
Refer to the "IDLE SPEED ADJUSTMENT" section in the CHAPTER 3.

3. Adjust:

- Throttle cable free play

	Throttle cable free play: 3 ~ 5 mm (0.12 ~ 0.20 in)
--	---

Refer to the "THROTTLE CABLE FREE PLAY ADJUSTMENT" section in the CHAPTER 3.



FUEL LEVEL ADJUSTMENT

1. Measure:

- Fuel level (a)
Out of specification → Adjust.

	Fuel level (a): 5.1 ~ 6.1 mm (0.2 ~ 0.24 in) Above the float chamber line.
--	---

Measurement and adjustment steps:

- Place the motorcycle on a level surface.
- Use a garage jack under the engine to ensure that the carburetor is positioned vertically.
- Connect the fuel level gauge (1) to the drain pipe (2).



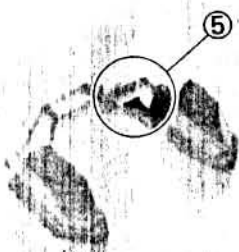
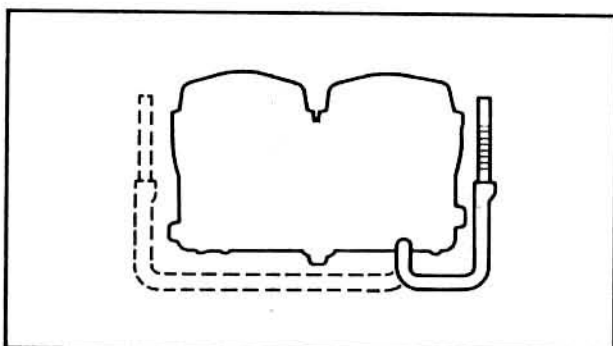
Fuel level gauge:
90890-01312

- Loosen the drain screw ③ and warm up the engine for several minutes.
- Hold the gauge vertically next to the float chamber line ④.
- Measure the fuel level ① with the gauge.

NOTE: _____

Fuel level readings of both side of carburetor line should be equal.

- 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 float level by bending the float tang ⑤ slightly.
- Install the carburetor.
- Recheck the fuel level.



FUEL PUMP

PUMP OPERATION INSPECTION

1. Inspect:
 - Fuel pump operation

Operation inspection steps:

- Turn the fuel cocks (Right and left) to "ON".
- Disconnect the fuel hose from the carburetor. (fuel pump — carburetor)
- Place the receptacle under the fuel hose end.
- Turn the main switch to "ON".
- Push the starter switch.
- Check the fuel flows out from the fuel hose end.

If fuel does not flow out, replace the fuel pump assembly or refer to "FUEL PUMP INSPECTION" section.

**FUEL PUMP INSPECTION****Removal**

1. Turn the fuel cocks (right and left) to "OFF".
2. Disconnect:
 - Fuel hose
 - Vacuum hose
 - Delivery hose
3. Remove:
 - Fuel pump assembly

Inspection

1. Inspect:
 - Fuel hose
 - Vacuum hose
 - Delivery hoseCrack/wear/damage → Replace.

ASSEMBLY

Refer to the "FUEL PUMP REMOVAL" section.

1. Inspect:
 - Fuel pump assembly
2. Inspect:
 - Fuel hose
 - Vacuum hose
 - Delivery hose

NOTE: _____

Be sure to connect the hose correctly, when connecting.
