

FUEL SYSTEM

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FUEL PUMP

DISASSEMBLY

Disassemble in numerical order.

Fig. 8-1

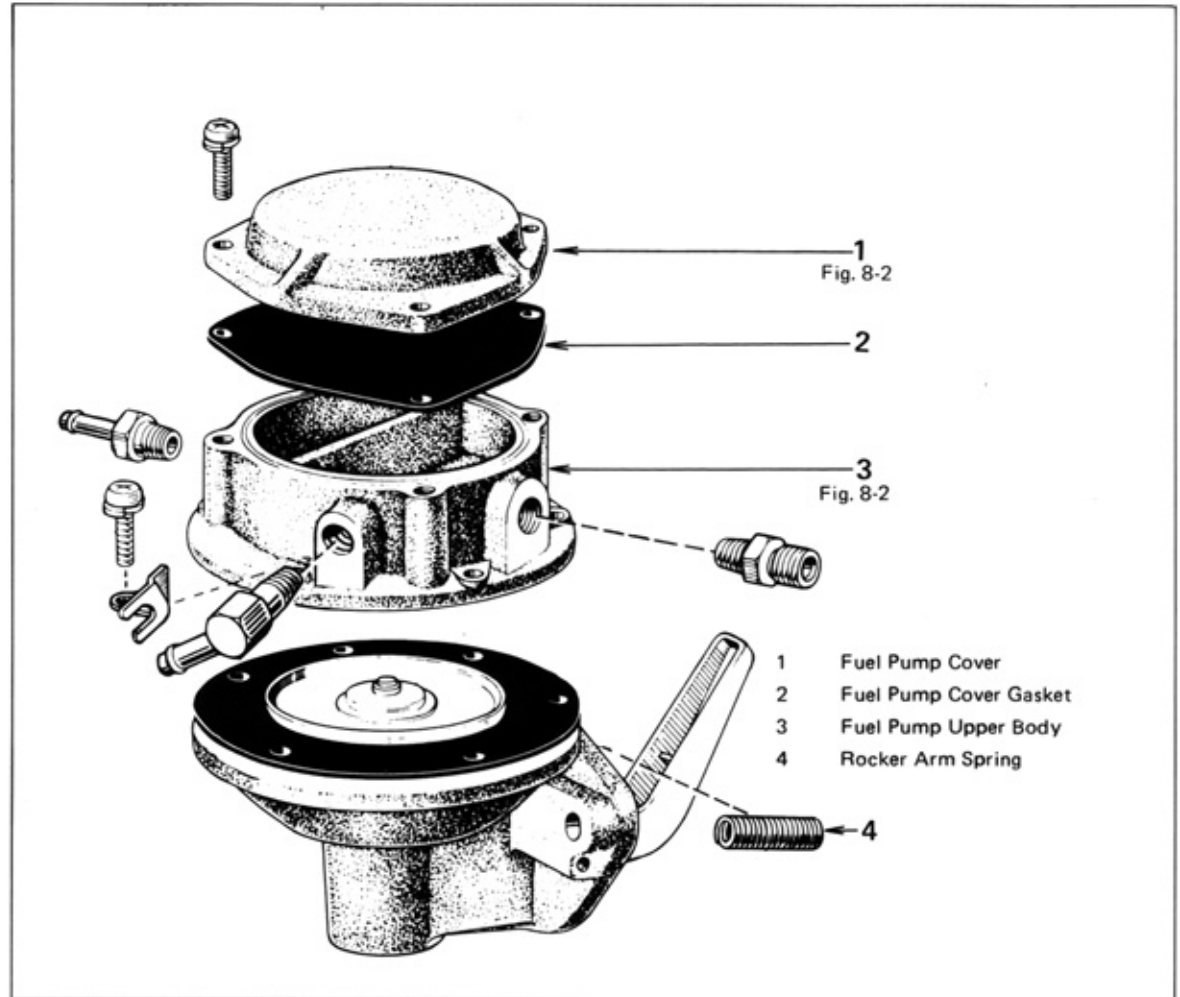
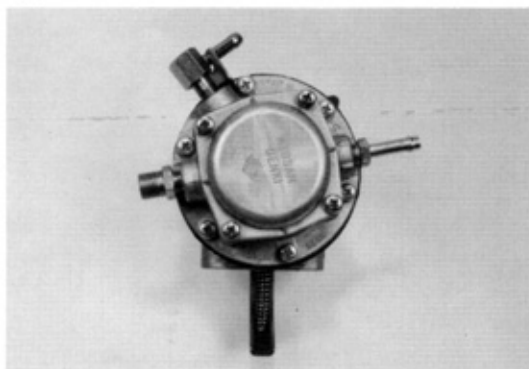
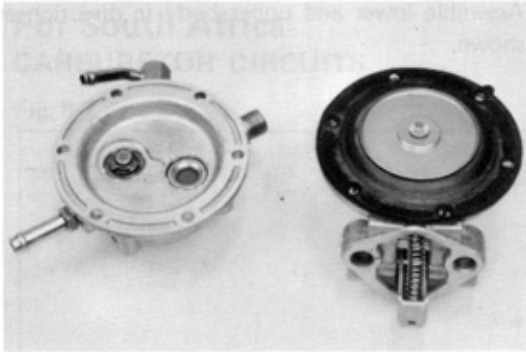


Fig. 8-2



Mark the position of pump cover and upper body.

Fig. 8-3



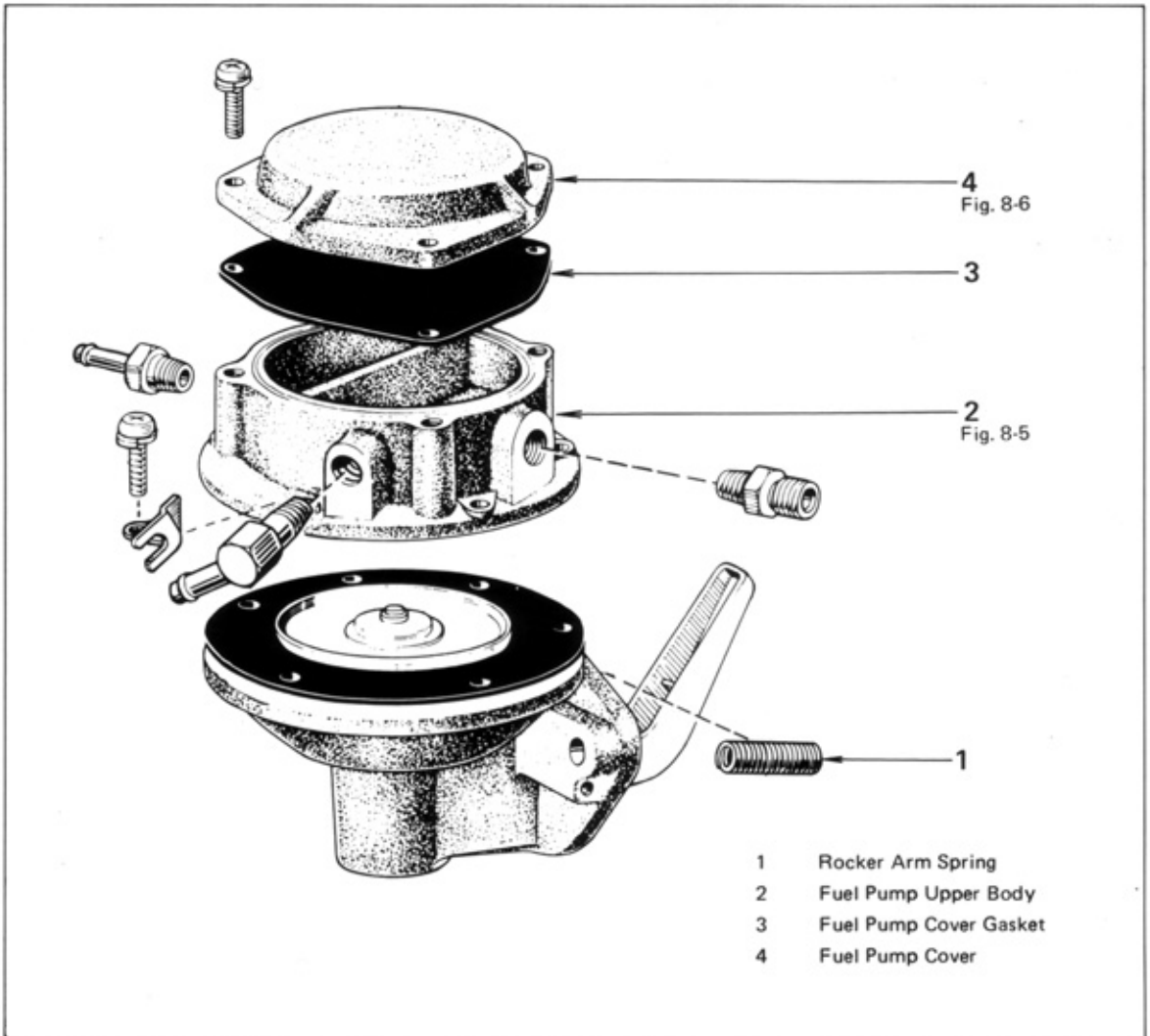
INSPECTION

Inspect diaphragms for tear and check valves for defective operation. Replace if damaged.

ASSEMBLY

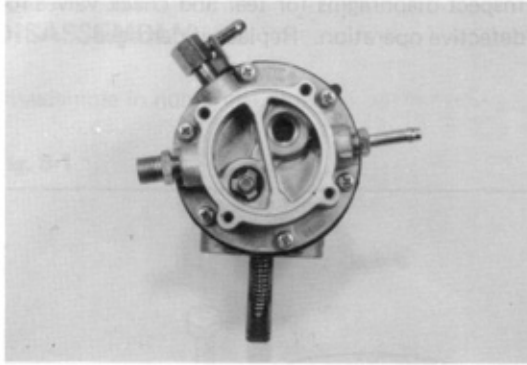
Assemble in numerical order.

Fig. 8-4



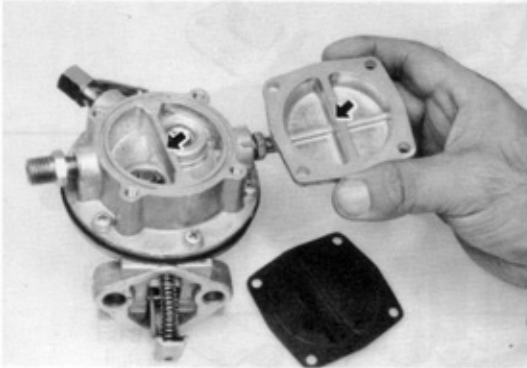
- 1 Rocker Arm Spring
- 2 Fuel Pump Upper Body
- 3 Fuel Pump Cover Gasket
- 4 Fuel Pump Cover

Fig. 8-5



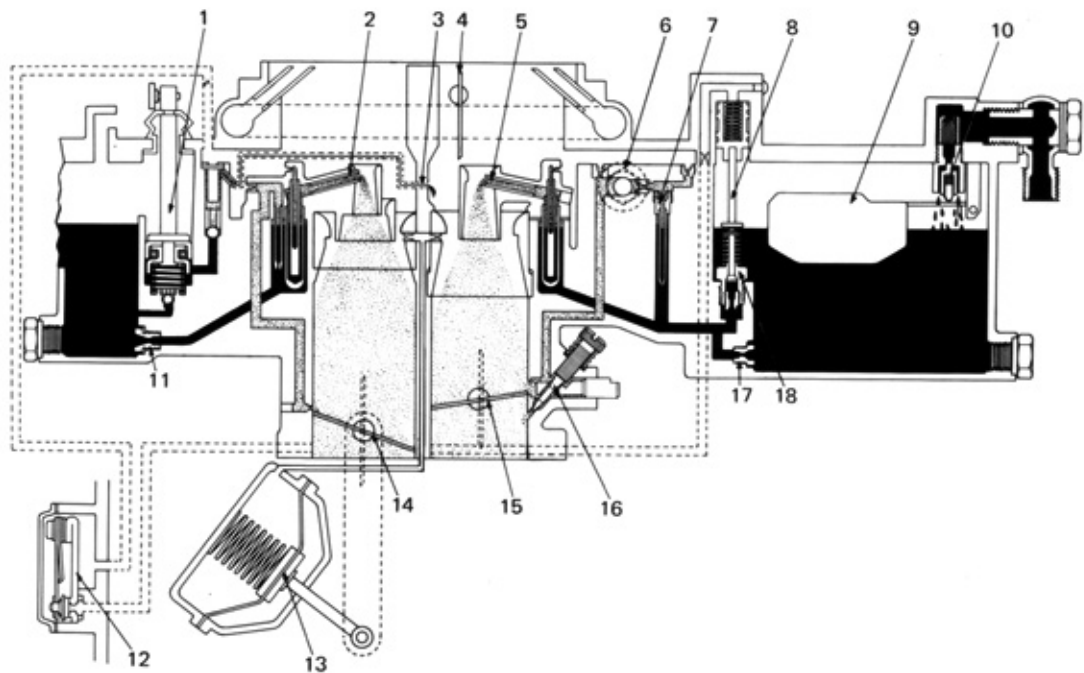
Assemble lower and upper body in direction as shown.

Fig. 8-6



Assemble upper body and cover over the diaphragm.

Inlet and outlet chamber separating walls should be aligned.

CARBURETOR(FOR 18R ENGINE)**For South Africa****CARBURETOR CIRCUITS****Fig. 8-7**

- | | | | |
|---|-----------------|----|------------------------------|
| 1 | Pump Plunger | 10 | Needle Valve |
| 2 | 2nd Main Nozzle | 11 | 2nd Main Jet |
| 3 | Pump Jet | 12 | Thermostatic Valve |
| 4 | Choke Valve | 13 | Diaphragm |
| 5 | 1st Main Nozzle | 14 | 2nd Throttle Valve |
| 6 | Solenoid Valve | 15 | 1st Throttle Valve |
| 7 | Slow Jet | 16 | Idle Mixture Adjusting Screw |
| 8 | Power Piston | 17 | 1st Main Jet |
| 9 | Float | 18 | Power Valve |

DISASSEMBLY

Air Horn

Disassemble in numerical order.

Fig. 8-8

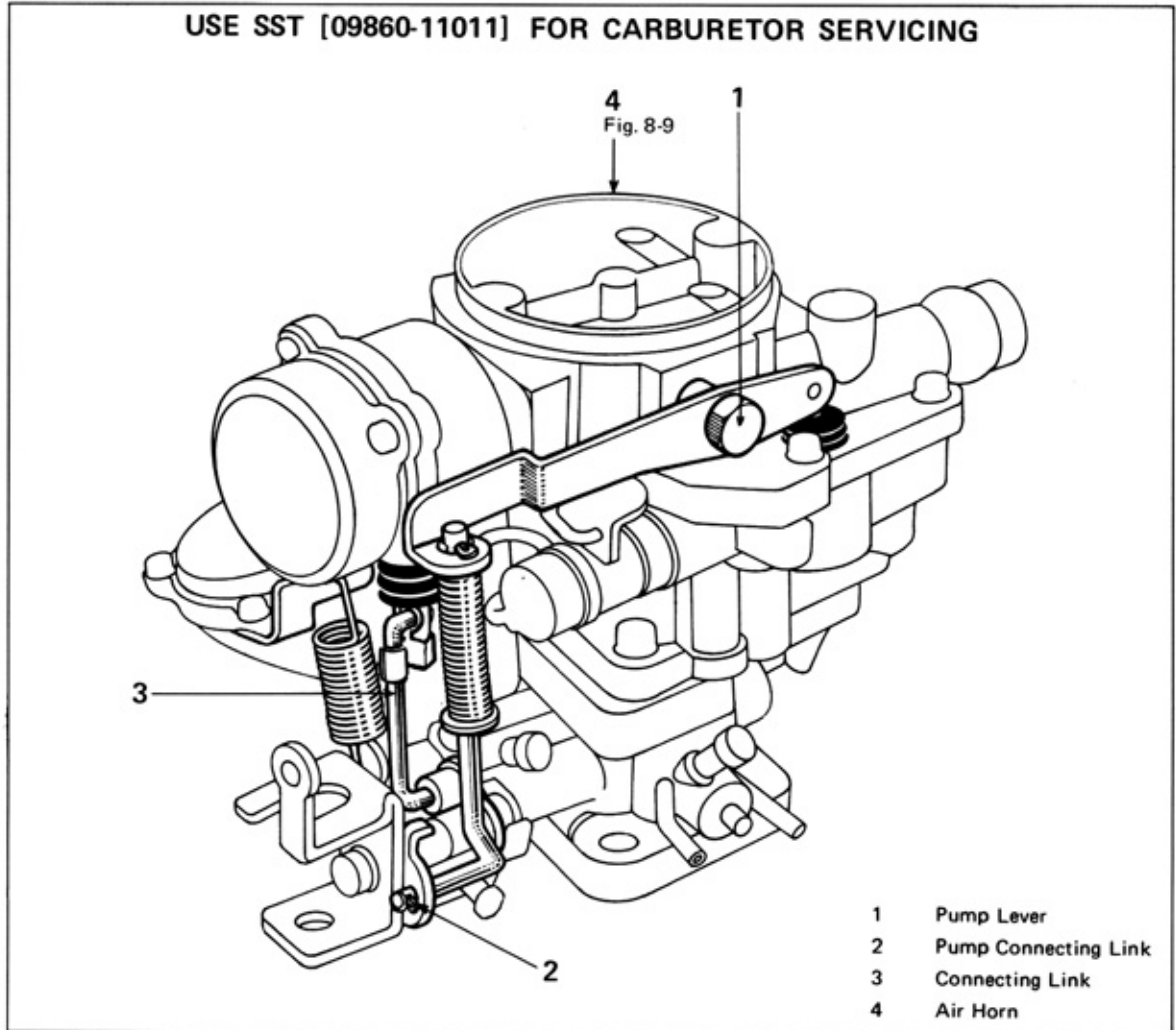
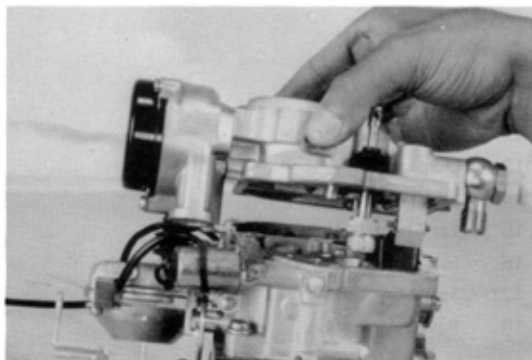


Fig. 8-9



Lift out air horn.

Disassemble in numerical order.

Fig. 8-10

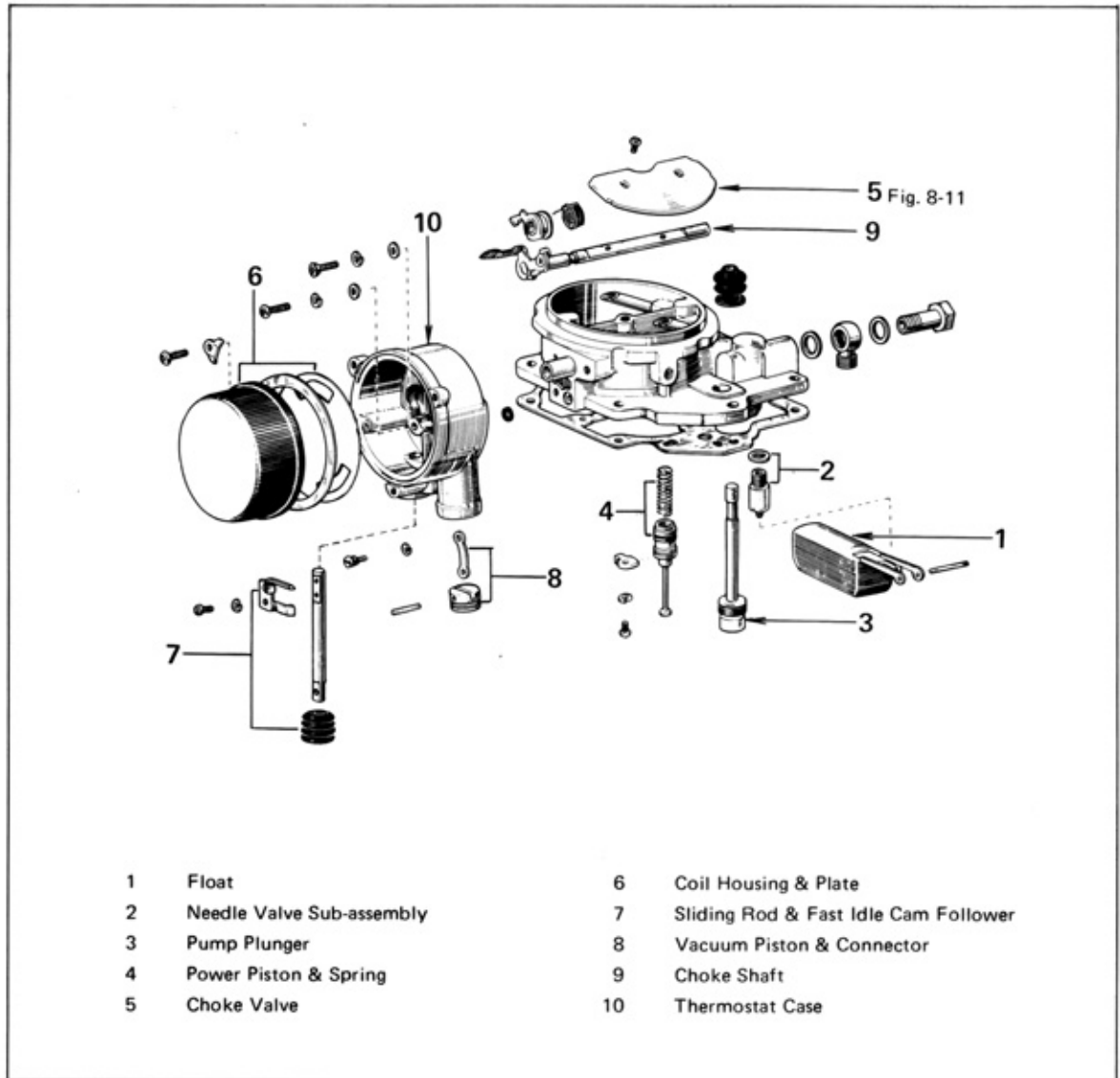
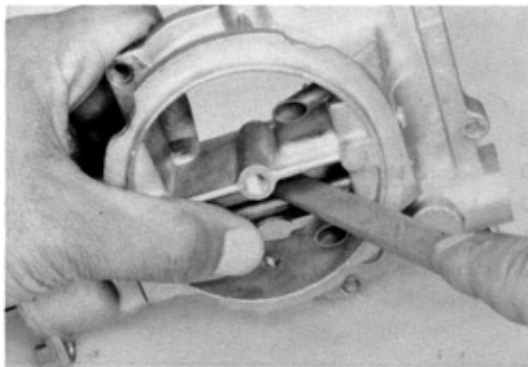


Fig. 8-11

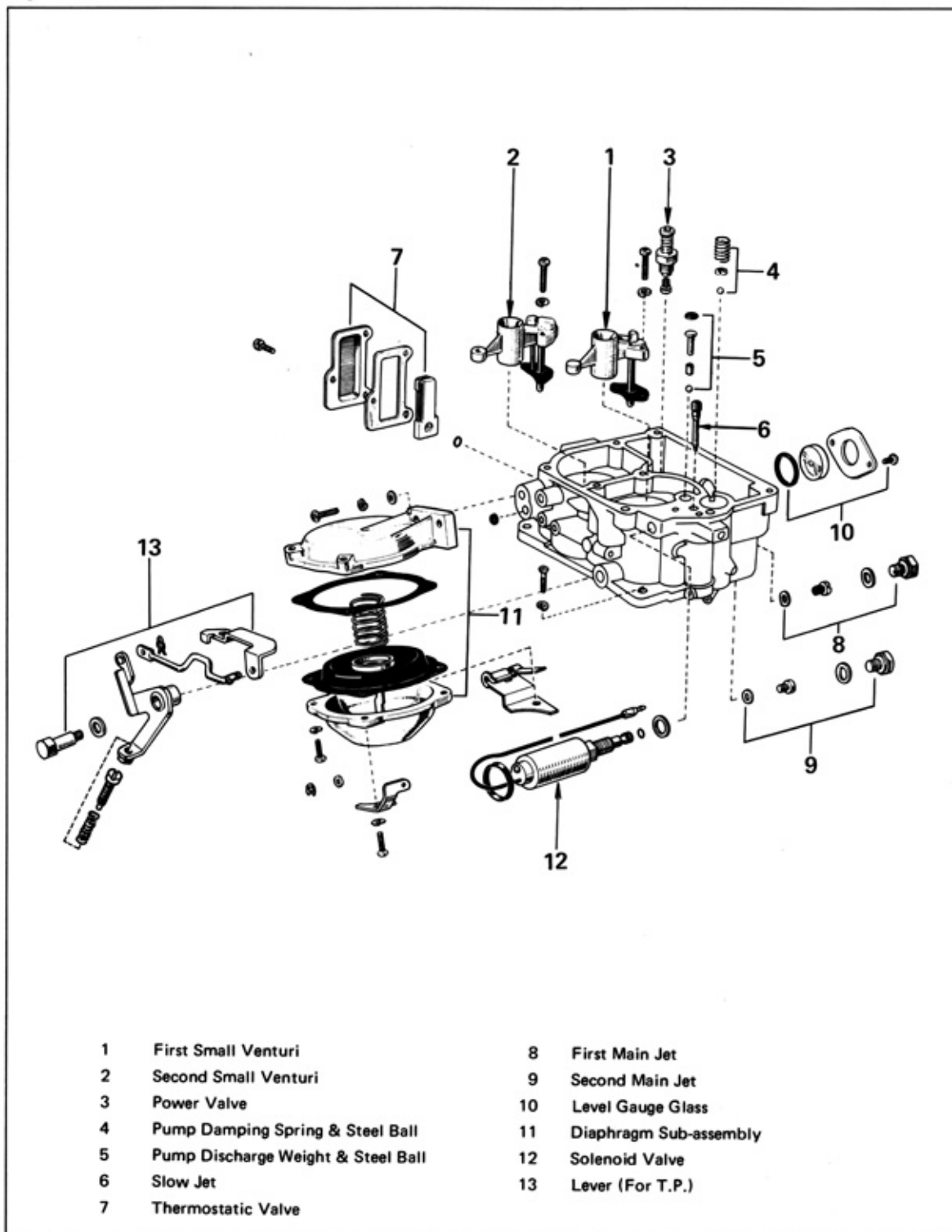


Pare off the end of set screws with a file, and remove choke valve.

Body

Disassemble in numerical order.

Fig. 8-12



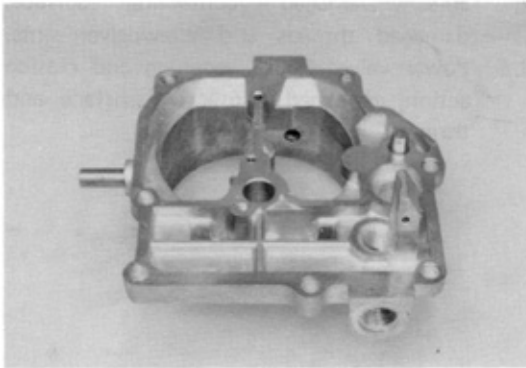
INSPECTION

— Precaution —

1. Before inspecting the parts, wash them thoroughly in gasoline. Using compressed air, blow all dirt and other foreign matter from the jets and similar parts, and from the fuel passages and apertures in the body.

2. Never clean the jets or orifices with wire or a drill. This could enlarge the openings and result in excessive fuel consumption.

Fig. 8-13

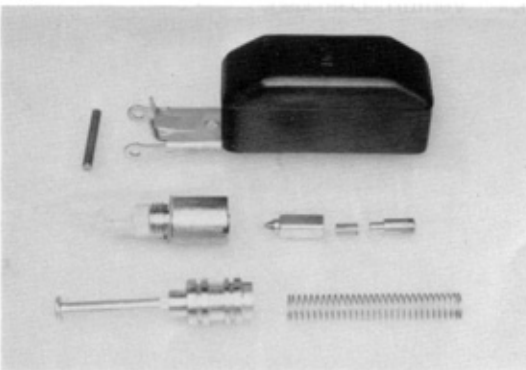


Inspect the following parts and replace any part damaged.

Air Horn Parts

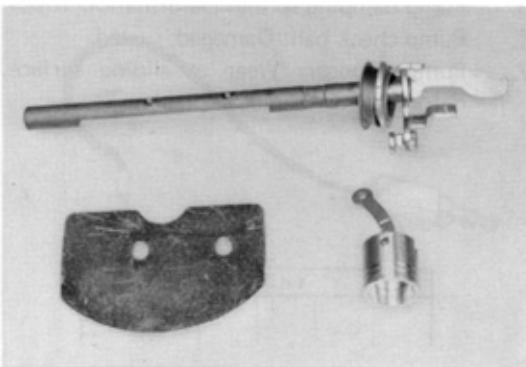
1. Air horn: Cracks, damaged threads, and wear on choke shaft bores.

Fig. 8-14



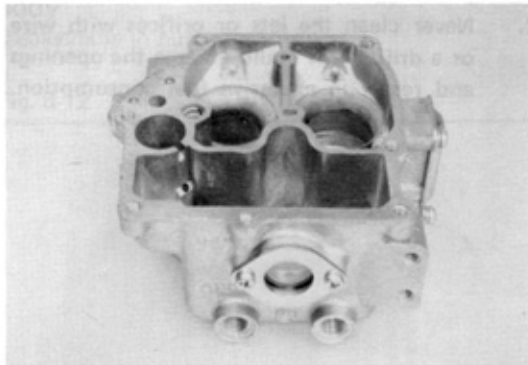
2. Float: Broken lip, wear in float pivot pin holes.
3. Needle valve surface contacting valve seat.
4. Strainer: Rust, breaks.
5. Power piston: Scratches, excessive wear. Power piston spring broken or deformed.

Fig. 8-15



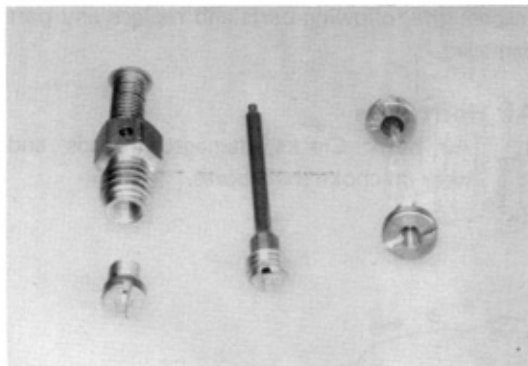
6. Vacuum piston: Defective sliding of piston, carbon adhering to the inside thermostat case.
7. Choke valve: Deformation. Choke shaft worn, bent, or not fitting properly into housing.

Fig. 8-16

**Body Parts**

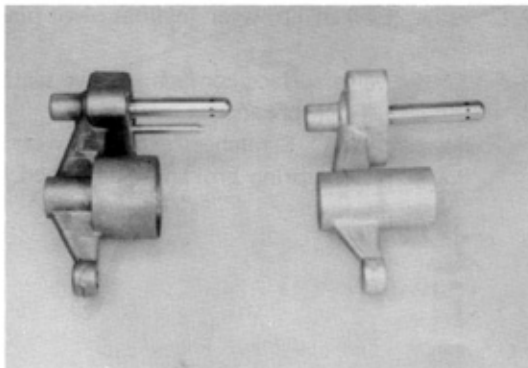
1. Body: Cracks, scored mounting surfaces, damaged threads.

Fig. 8-17



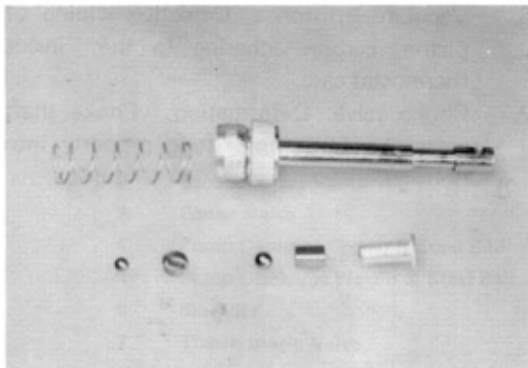
2. Jets: Damaged contacting surface, damaged threads and screwdriver slots.
3. Power valve: Faulty opening and closing action, damaged contacting surface and threads.

Fig. 8-18



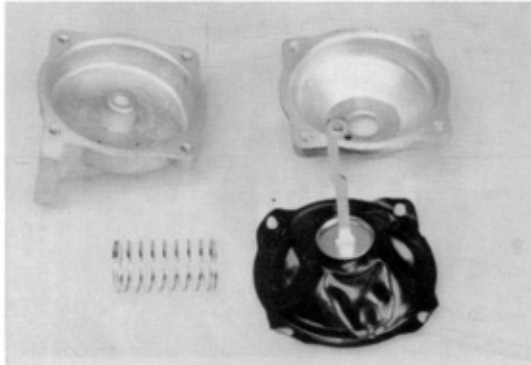
4. Venturi: Damaged.

Fig. 8-19



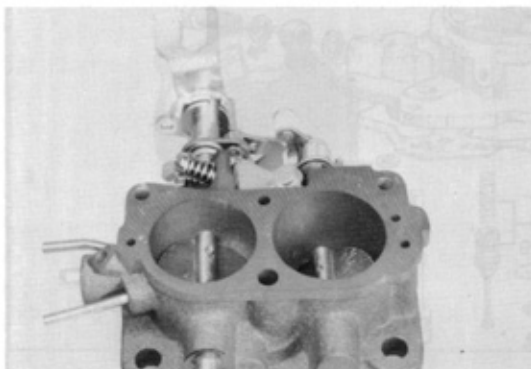
5. Pump damping spring: Deformation, rust.
6. Pump check ball: Damaged, rusted.
7. Pump plunger: Wear at sliding surface, deformed or damaged leather.

Fig. 8-20



8. Secondary diaphragm: Damaged.

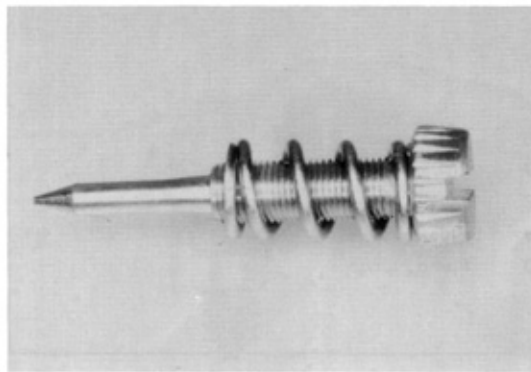
Fig. 8-21



Flange Parts

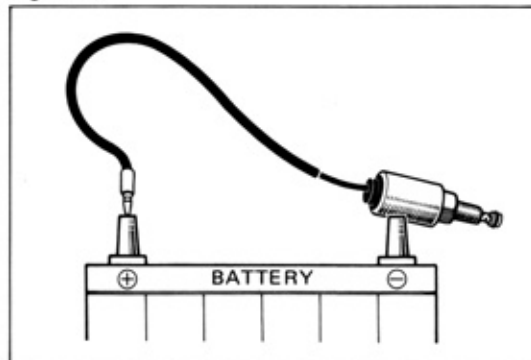
1. Flange: Cracks, injured mounting surfaces, damaged threads, wear at throttle shaft bearings.
2. Throttle valves: Wear or deformation in valves. Wear, bending, twisting, or faulty movement inside housing of shaft.

Fig. 8-22



3. Idle mixture adjusting screw: Damage at tapered tip or threads.

Fig. 8-23



Solenoid Valve

Check operation of solenoid valve. Connect wiring to the battery positive terminal and ground the body. The needle valve should be pulled in.

ASSEMBLY

Air Horn

Assemble in numerical order.

Fig. 8-24

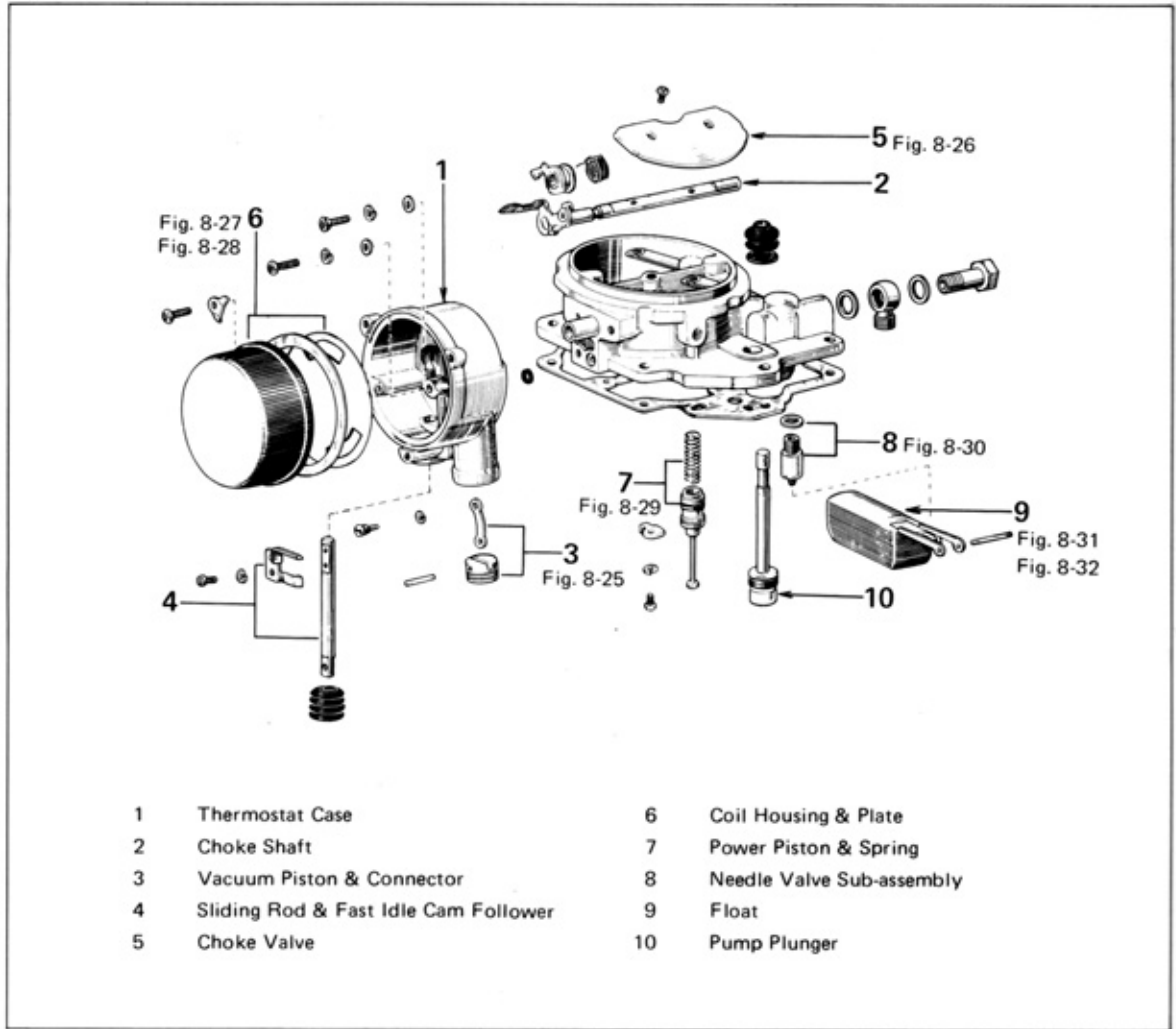
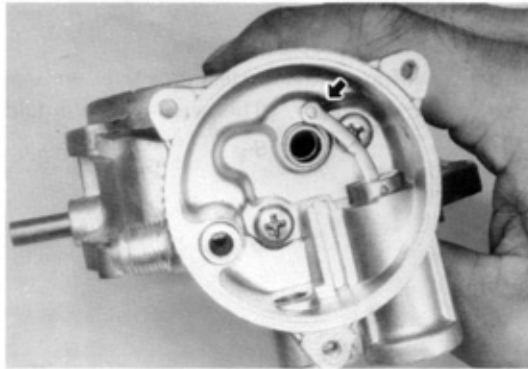
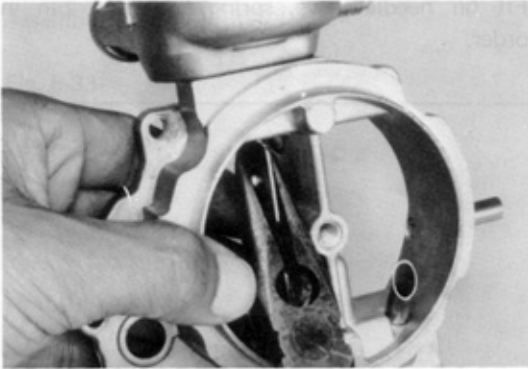


Fig. 8-25



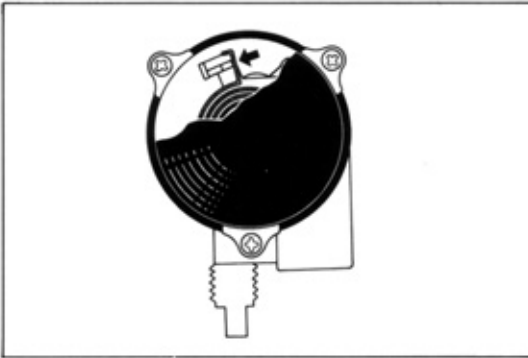
Assemble the vacuum piston in the direction as shown.

Fig. 8-26



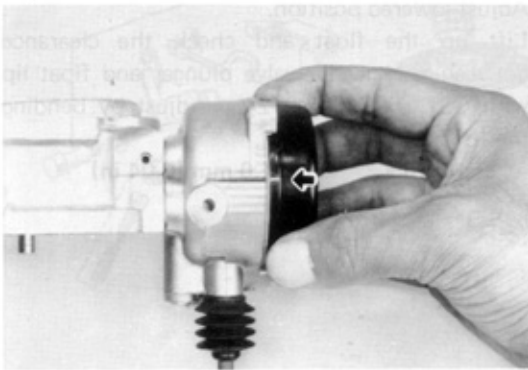
Install choke valve, then peen screws.

Fig. 8-27



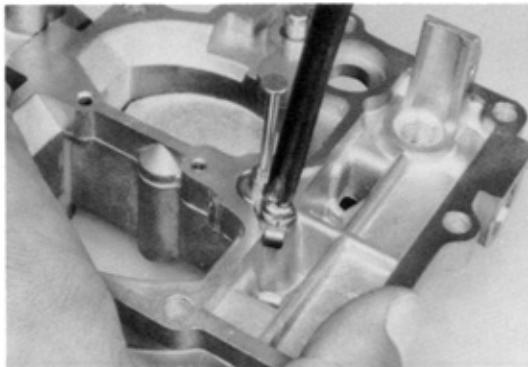
Align the bimetal with the choke shaft when installing the housing.

Fig. 8-28



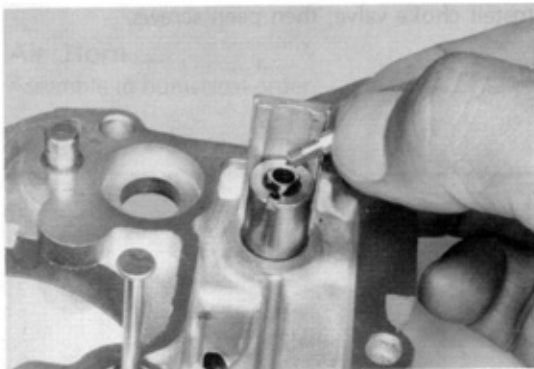
Align the case scale center line against the housing scale line.
Check the choke valve to see that it will close completely when released from fully open position. (Atmospheric temperature below 25°C or 77°F).

Fig. 8-29



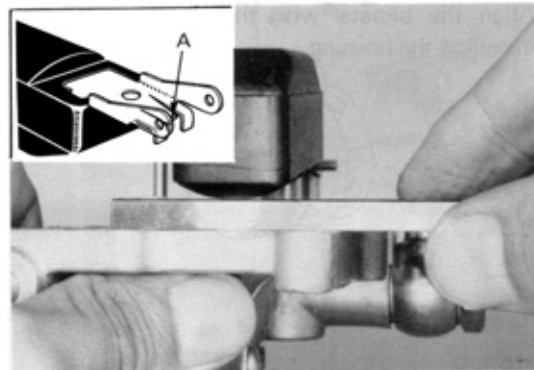
Install power piston and spring.
Make sure that the piston moves smoothly.

Fig. 8-30



Fit on needle valve, spring and push pin in order.

Fig. 8-31



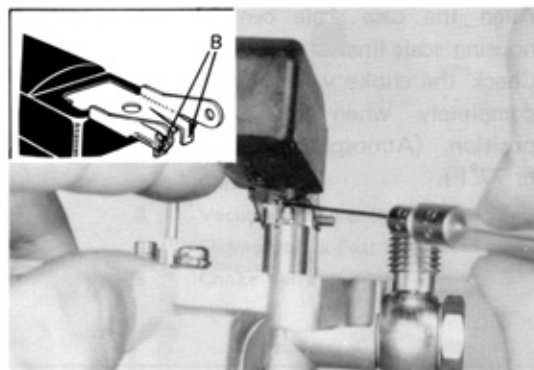
Adjust float level.
Allow the float to hang down by its own weight. Then check the clearance between the float tip and air horn with SST [09240-00012]. Adjust by bending the (A) part of float lip.

Standard **5.0 mm (0.20 in)**

—Note—

This measurement is always made without any gasket on air horn.

Fig. 8-32



Adjust lowered position.
Lift up the float and check the clearance between the needle valve plunger and float lip with SST [09240-00012]. Adjust by bending the (B) part of float lip.

Standard **1.0 mm (0.04 in)**

Body

Assemble in numerical order.

Fig. 8-33

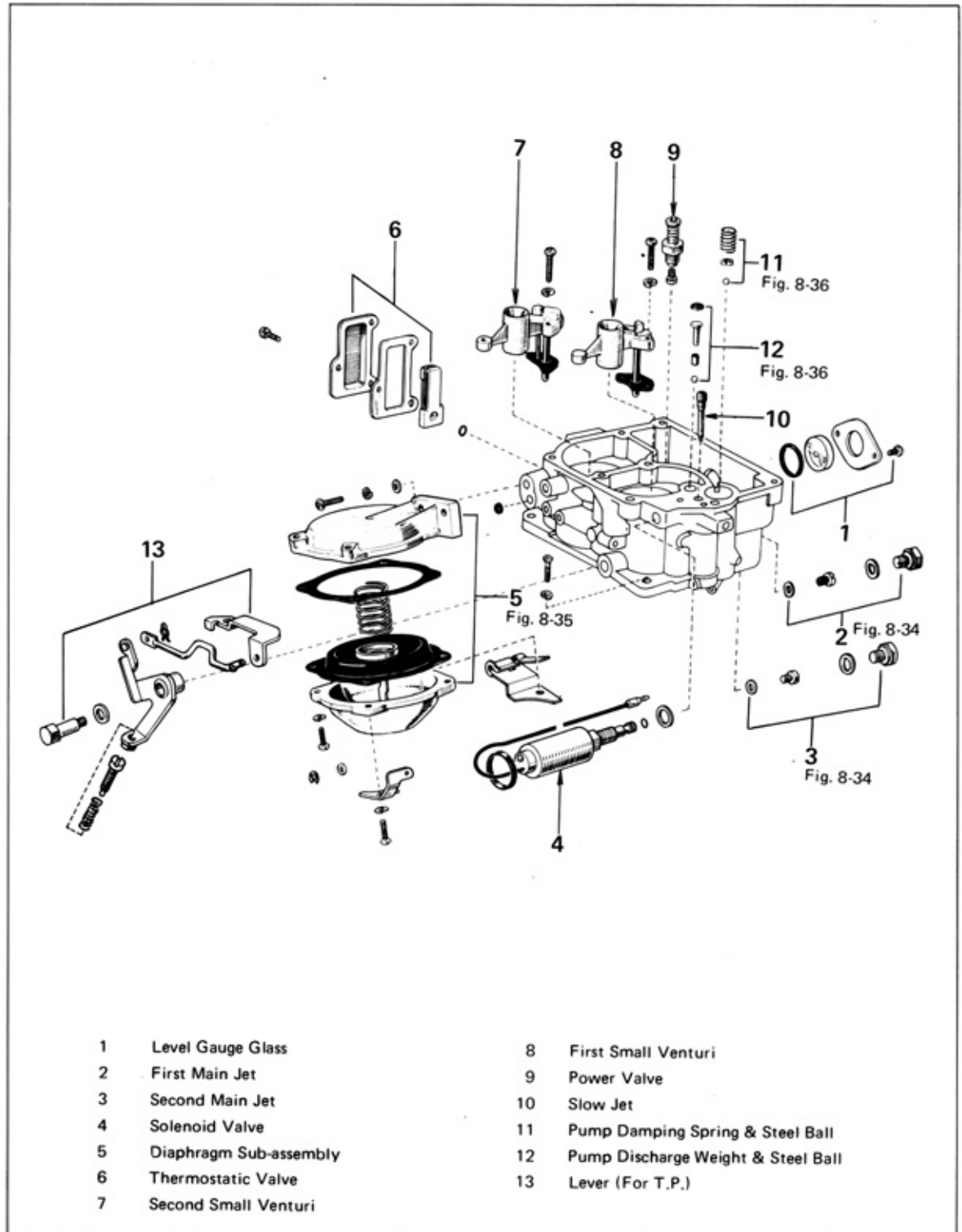
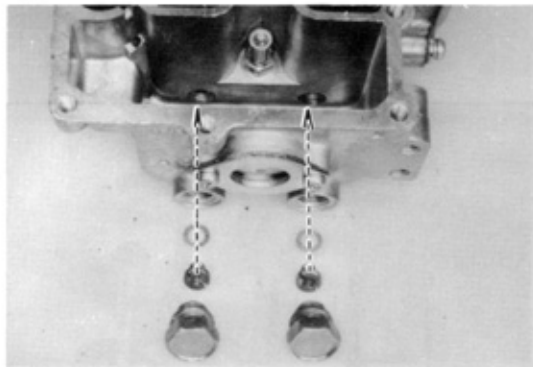


Fig. 8-34



Install main jets over gasket.

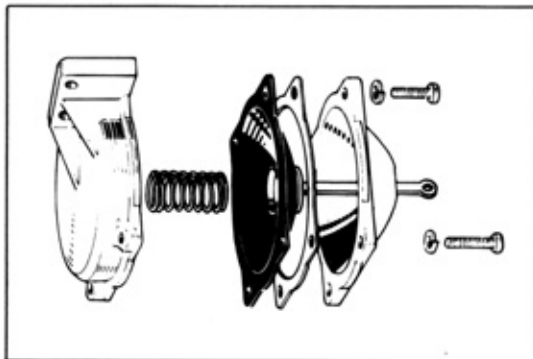
Primary jet

Brass colored

Secondary jet

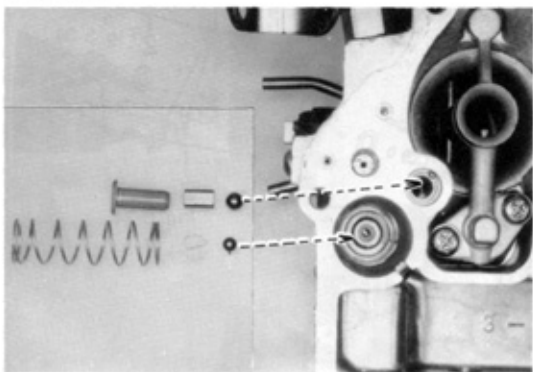
Chrome colored

Fig. 8-35



Assemble secondary diaphragm in order as shown.

Fig. 8-36



Install pump outlet ball and weight.

— Note —

There are two sizes of balls.

Larger ball: For Pump outlet.

Smaller ball: For Pump inlet.

Body And Air Horn

Assemble in numerical order.

Fig. 8-37

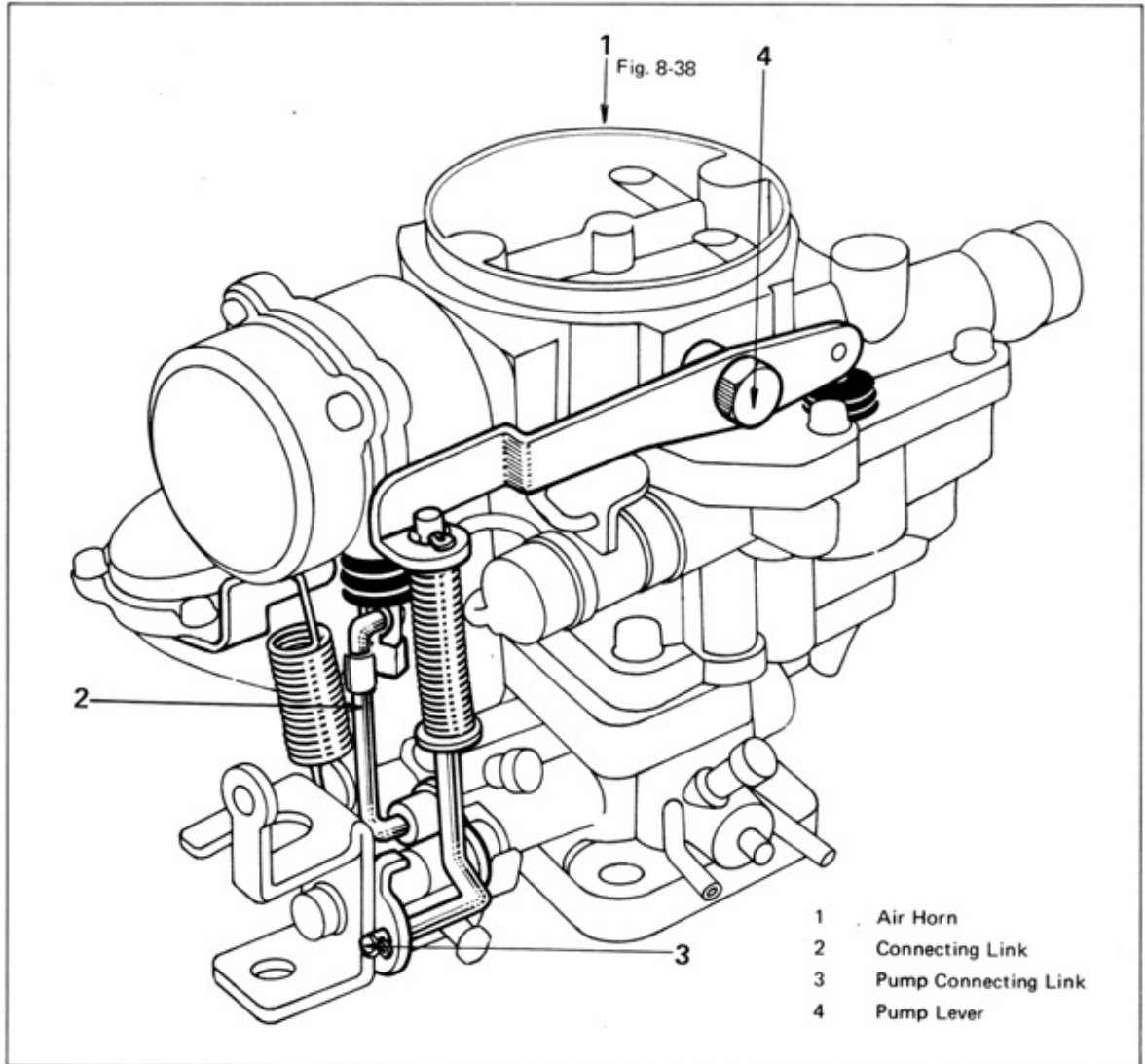
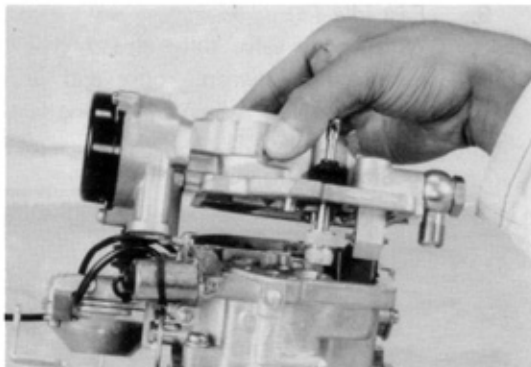


Fig. 8-38



Assemble body and air horn over new gasket.
Take care not to damage pump plunger leather.

Fig. 8-39

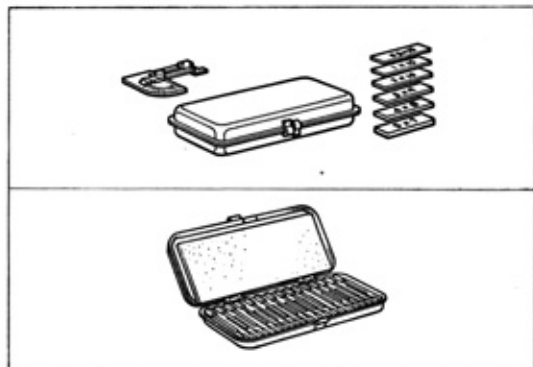


Fig. 8-40

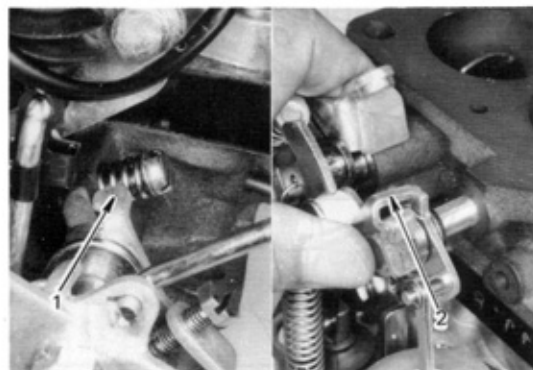


Fig. 8-41

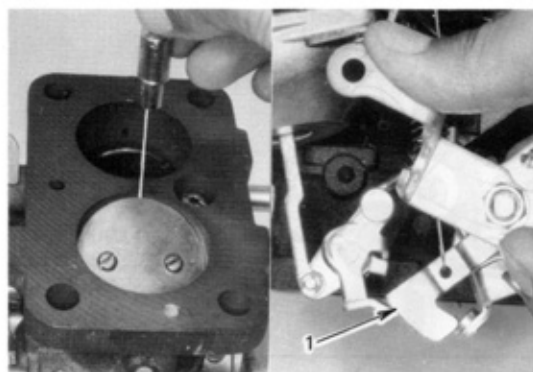
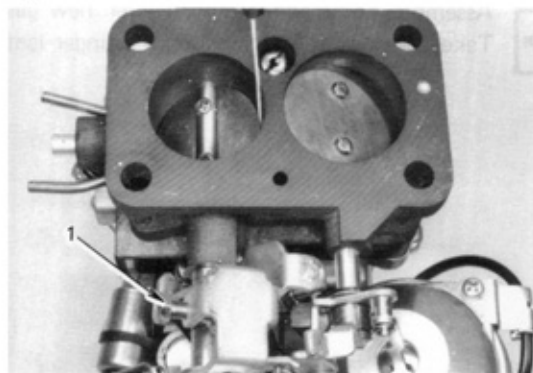


Fig. 8-42



ADJUSTMENT

Use SST [09240-00014 and 09240-00020] to make adjustments.

1. Throttle valve openings

Open the primary and secondary throttle valves separately and check if the throttle valves will be perpendicular to the flange surface when fully opened. Adjust by bending the respective throttle lever stoppers at the primary (1) and secondary sides (2).
2. Kick up

Adjust the clearance between the second throttle valve and body by bending the second throttle lever (1).

With first throttle valve opening
 $64 \sim 90^\circ$

Standard clearance
 $0.2 \text{ mm}(0.0079 \text{ in})$
3. Fast idle

With choke valve fully closed, check the clearance between bore and primary throttle valve. Adjust by turning fast idle adjusting screw (1).

Standard clearance
 $1.0 \text{ mm}(0.04 \text{ in})$

Fig. 8-43

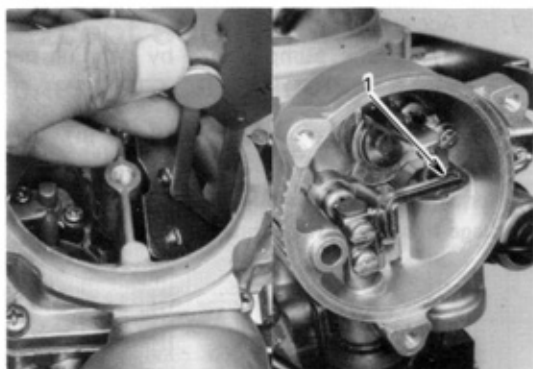


Fig. 8-44

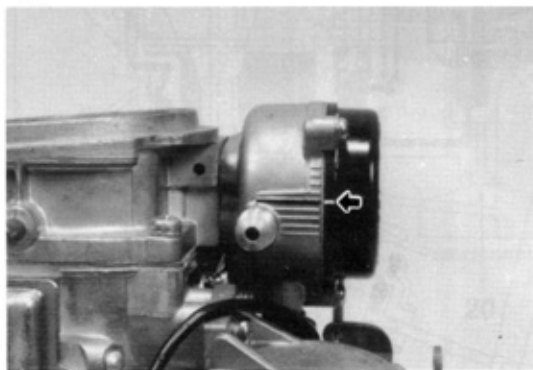


Fig. 8-45

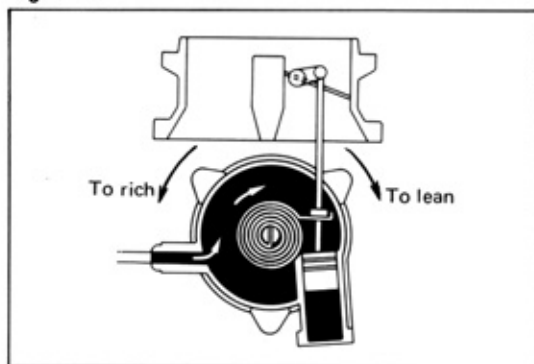
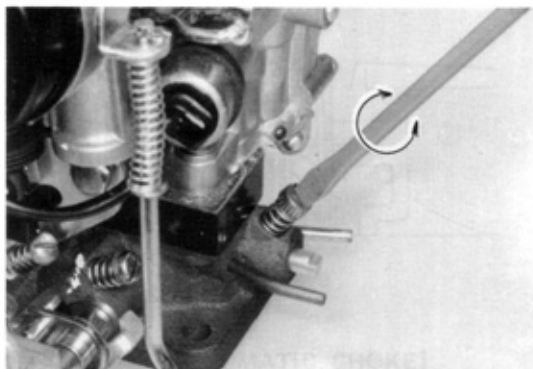


Fig. 8-46



4. Unloader
With the first throttle valve fully opened, adjust the choke valve angle by bending the fast idle cam follower or choke shaft lip (1).

Standard angle **47° from bore**

5. Automatic choke
(1) Set the coil housing scale mark so that it will be aligned with the center line of the thermostat case.

— Note —

The choke valve becomes fully closed when atmospheric temperature reaches 25°C (77°F).

- (2) Depending on the vehicle operating conditions, turn the coil housing and adjust the engine starting mixture.

If too rich Turn clock-wise.

If too lean Turn counterclock-wise.

— Note —

One graduation of thermostat case scale equals 5°C (9°F) change.

6. Idle mixture adjusting screw
Screw in the idle mixture adjusting screw and then unscrew it by the following amount.

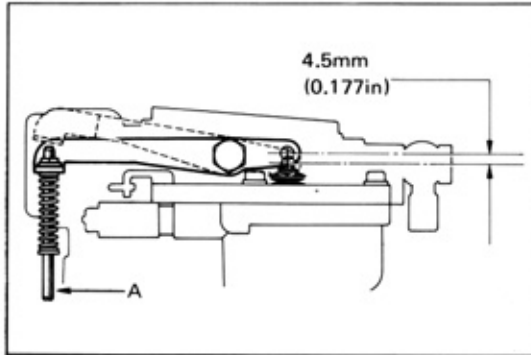
Standard (Reference only)

Returned about 2½ turns from full closed

— Caution —

Take care not to screw in too tightly and damage the screw tip.

Fig. 8-47



7. Accelerating pump
Adjust the pump stroke by bending part (A).

Standard 4.5 mm (0.177 in)

— **Note** —

After adjustment is made, be sure to check the linkage to see that it operates smoothly.

CARBURETOR (FOR 18R ENGINE) Except South Africa

CARBURETOR CIRCUITS

Fig. 8-50

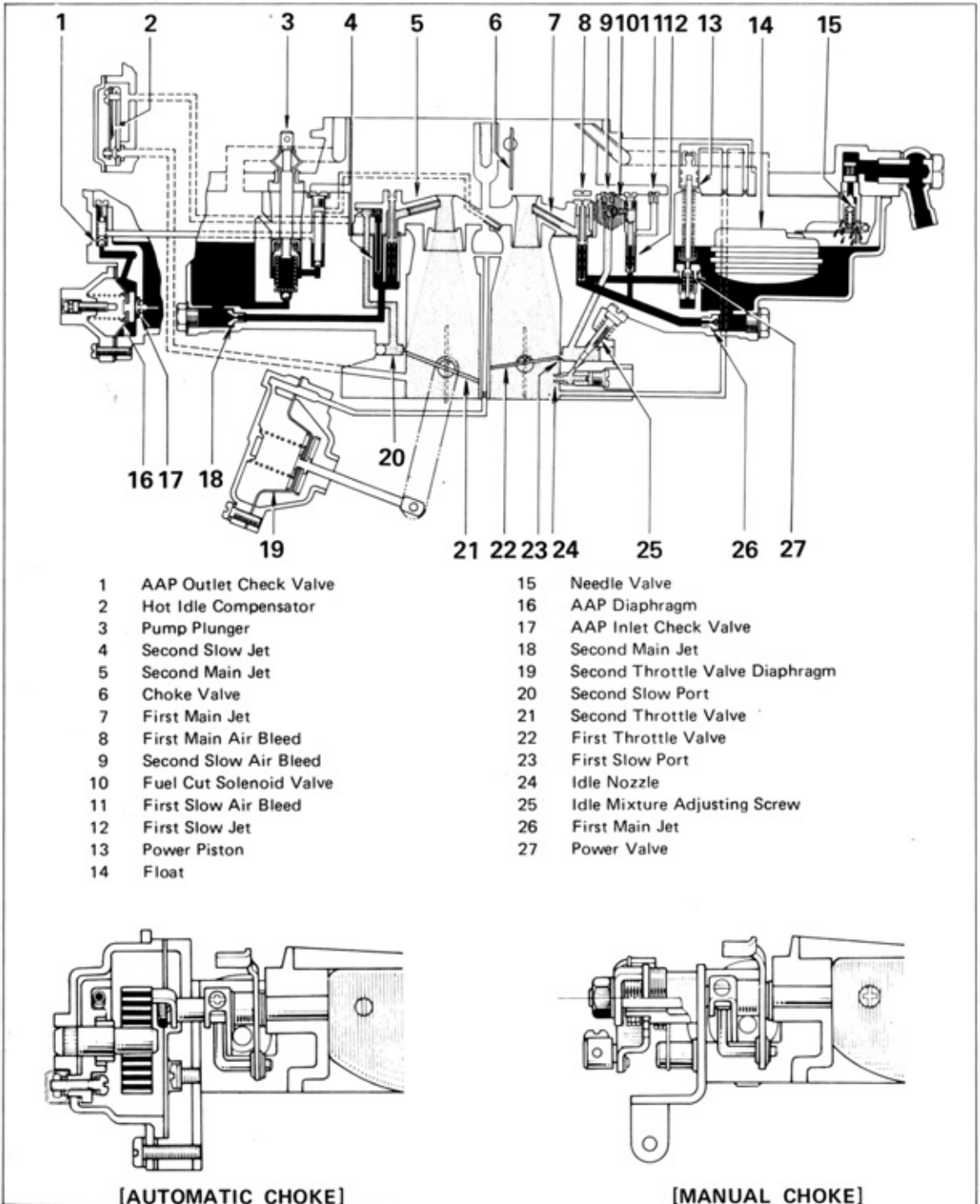
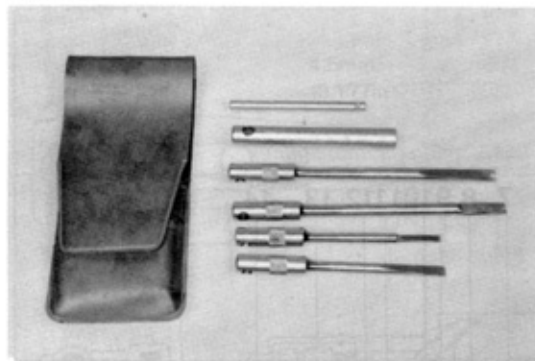


Fig. 8-51



Use SST [09860-11011] for carburetor servicing.

DISASSEMBLY

Air Horn

Disassemble in numerical order.

Fig. 8-52

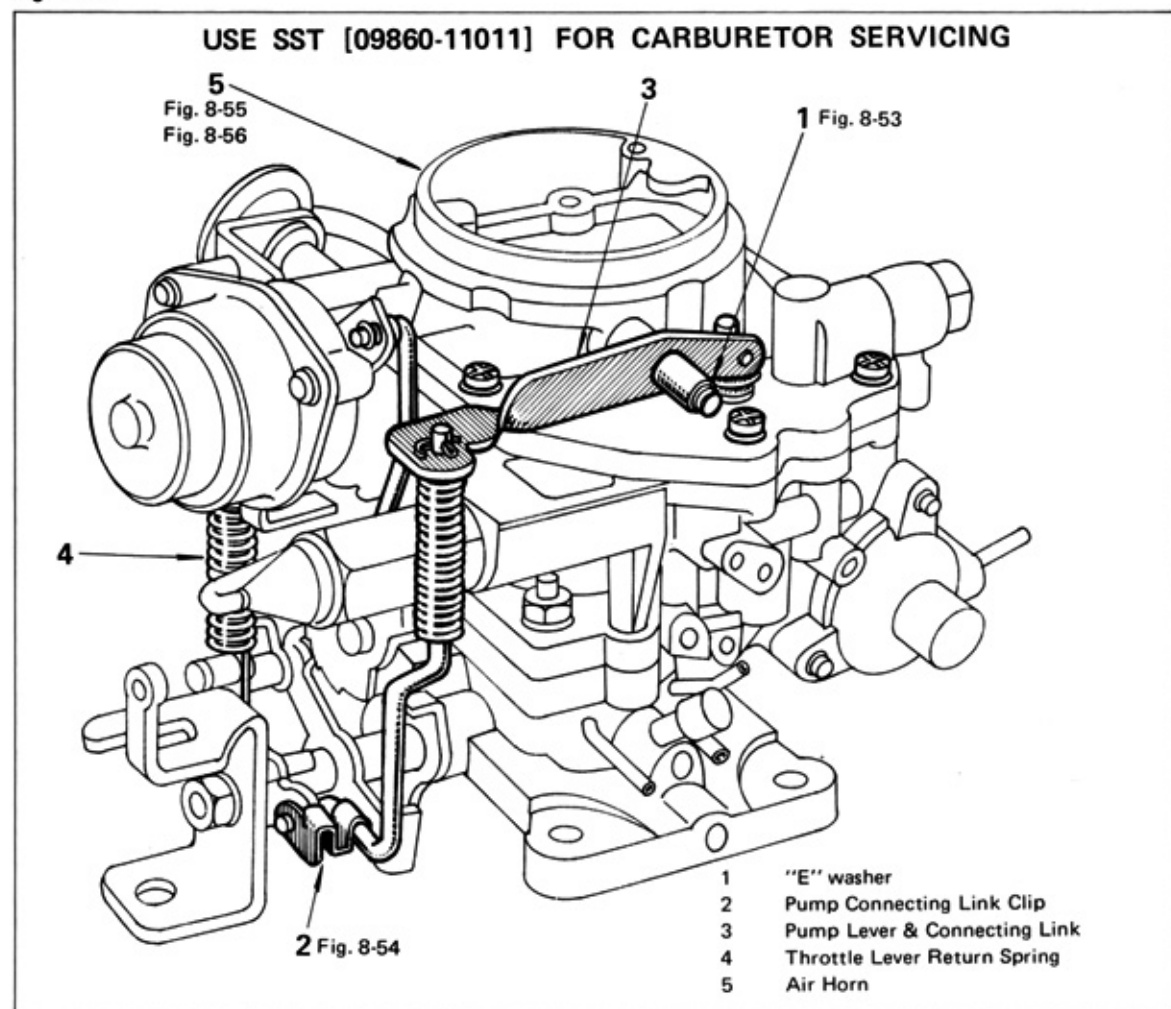
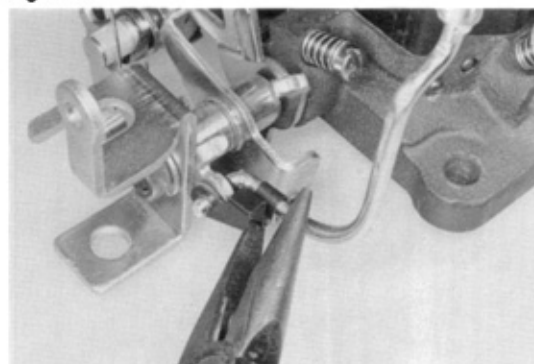


Fig. 8-53



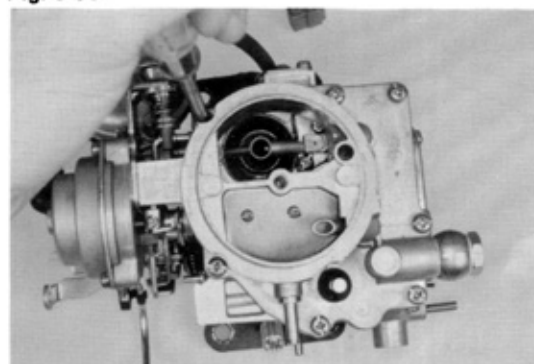
Remove "E" washer with a small screwdriver.

Fig. 8-54



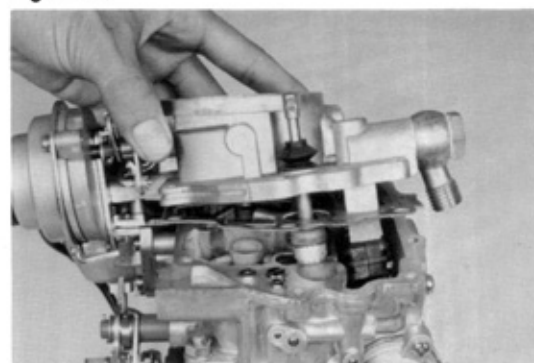
Disconnect pump connecting link from throttle shaft lever.

Fig. 8-55



Gradually loosen air horn set screw in 2 or 3 stages in diagonal order.

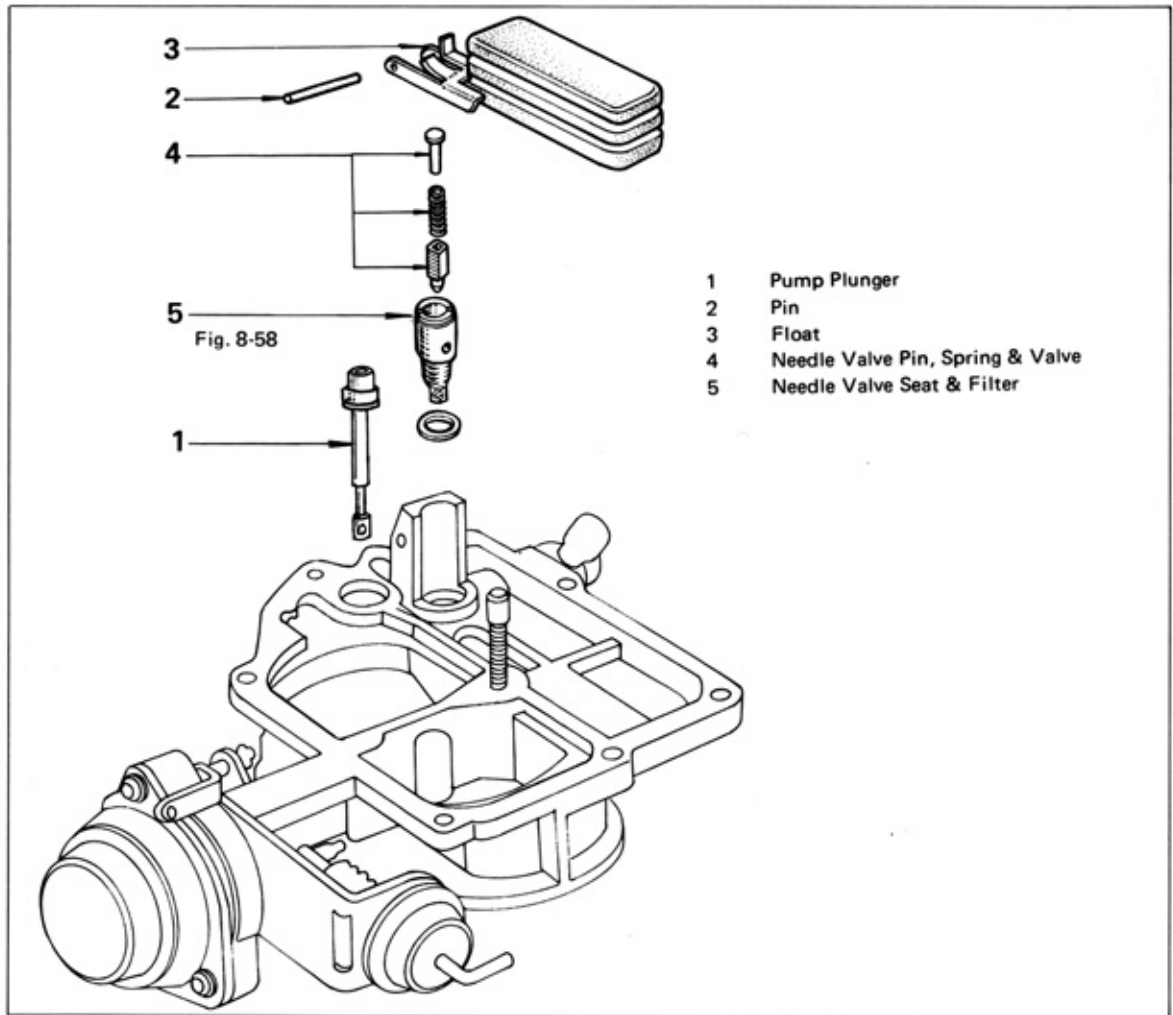
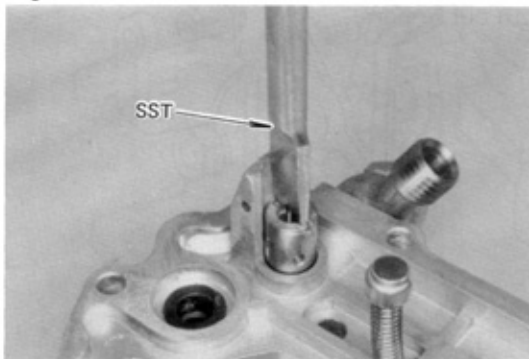
Fig. 8-56



Lift out air horn.

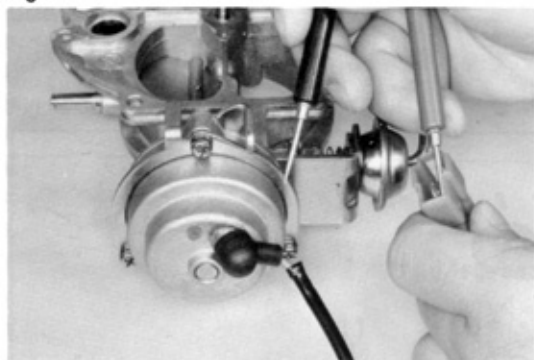
Float

Disassemble in numerical order.

Fig. 8-57**Fig. 8-58**

Remove needle valve seat with SST [09860-11011].

Fig. 8-59

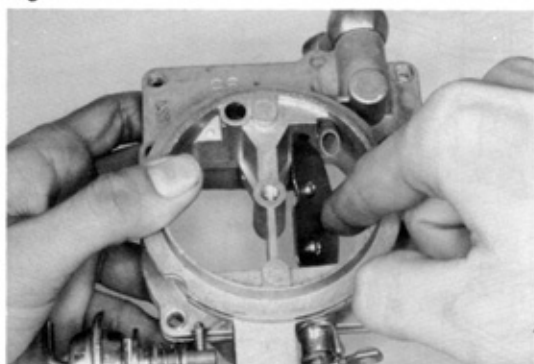
**Air Horn**

Before disassembling, check following items.

1. Measure heating coil resistance with ohmmeter.

Resistance **7.5 – 10.0 Ω**

Fig. 8-60



2. Check choke valve action.

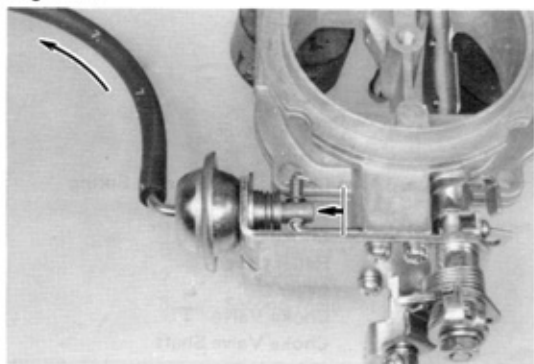
Fig. 8-61



3. Check choke breaker diaphragm action.

Automatic choke

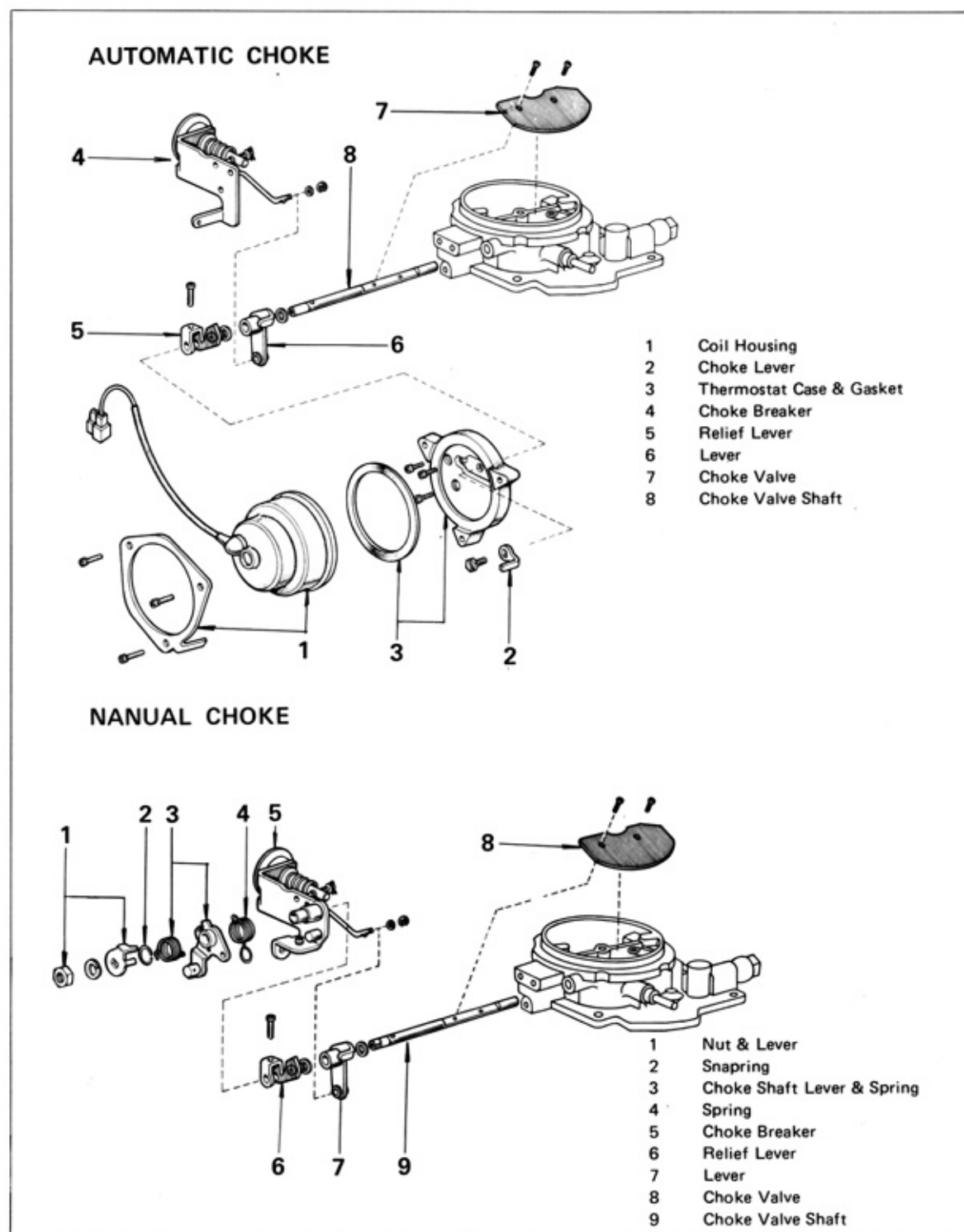
Fig. 8-62



Manual choke

Disassemble in numerical order.

Fig. 8-63



Body

Disassemble in numerical order.

Fig. 8-64

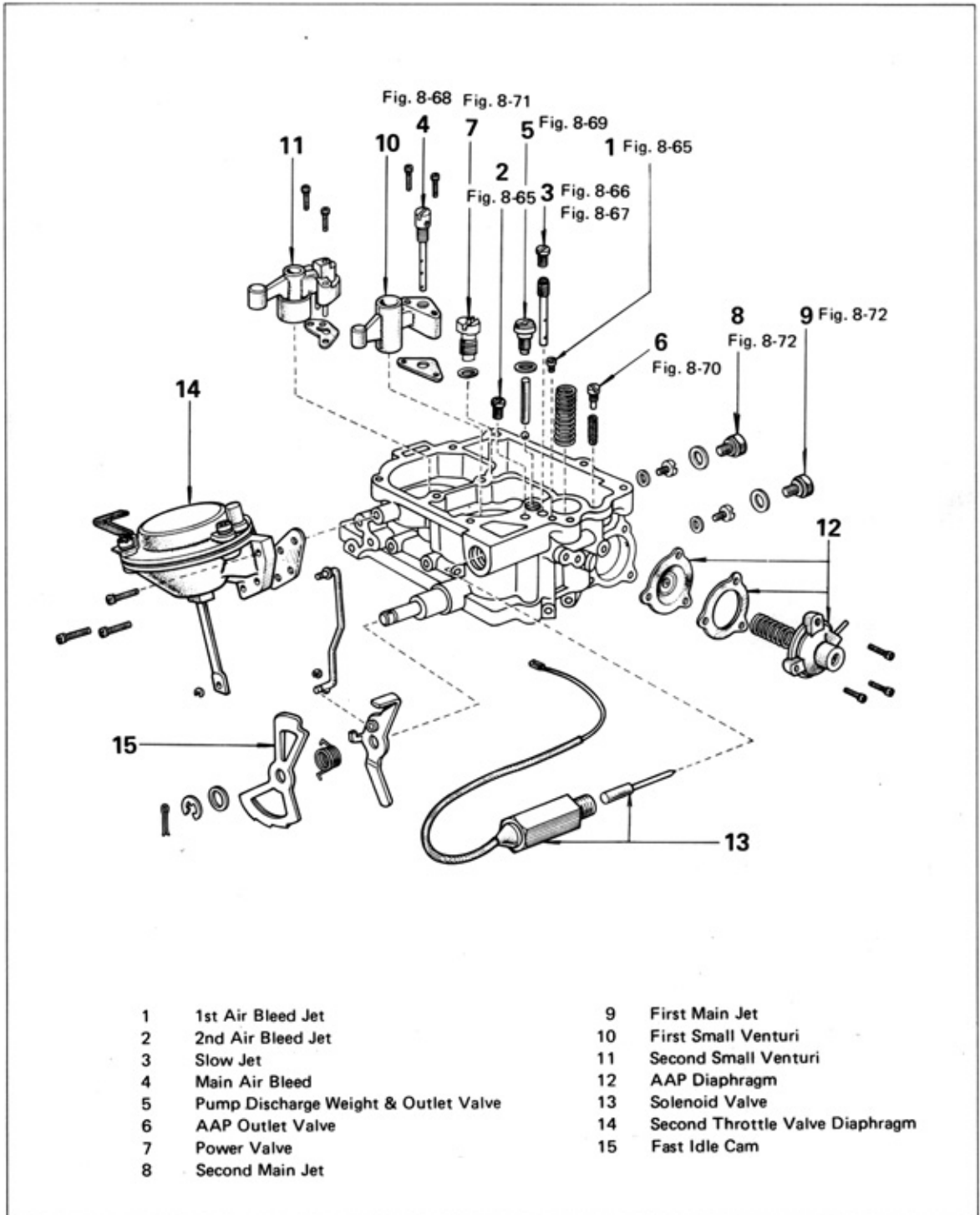
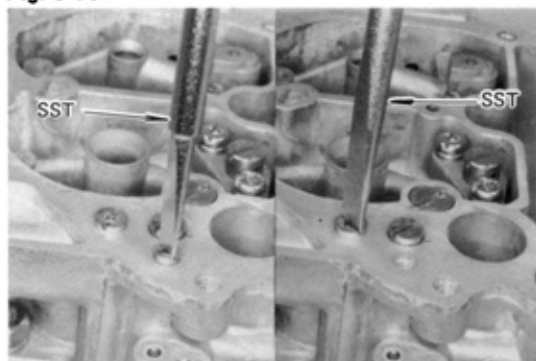
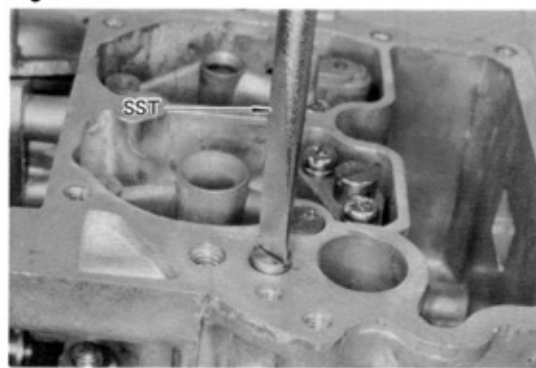


Fig. 8-65



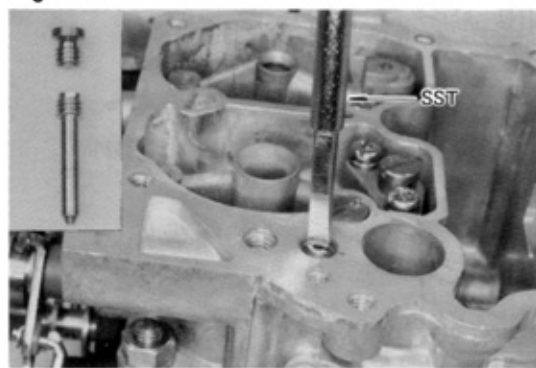
Remove 1st and 2nd slow air bleed jet with SST [09860-11011].

Fig. 8-66



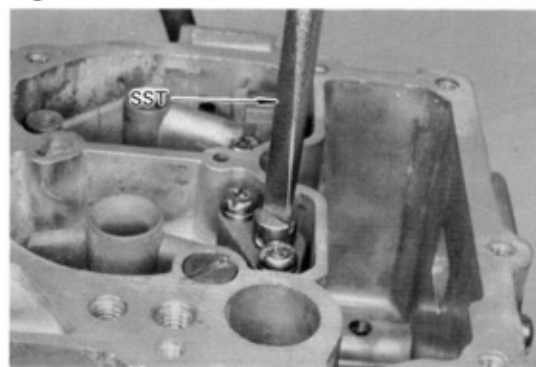
Remove slow jet plug with SST [09860-11011].

Fig. 8-67



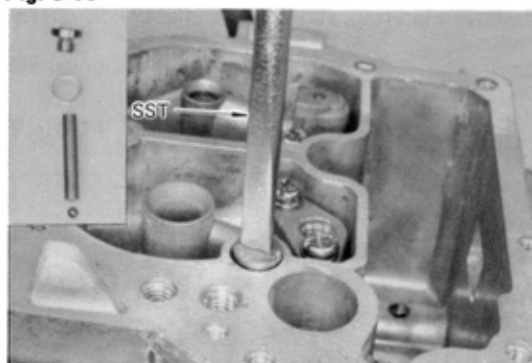
Remove slow jet with SST [09860-11011].

Fig. 8-68



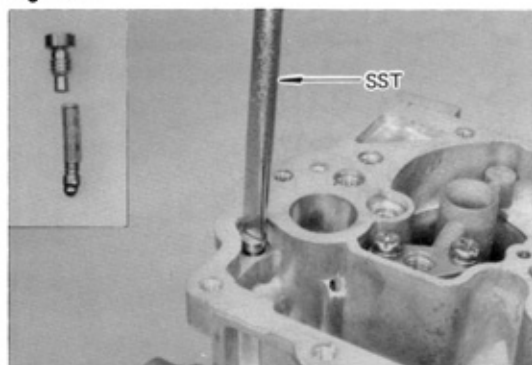
Remove 1st main air bleed with SST [09860-11011].

Fig. 8-69



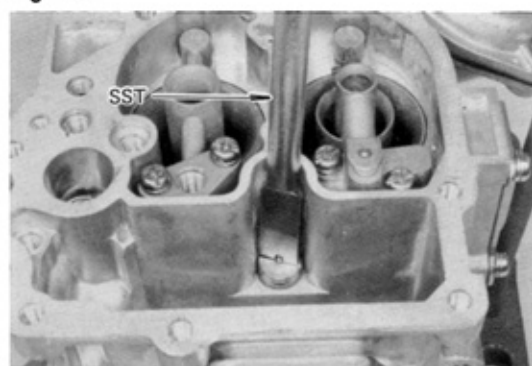
Remove discharge weight plug with SST [09860-11011], then remove discharge weight and outlet check valve.

Fig. 8-70



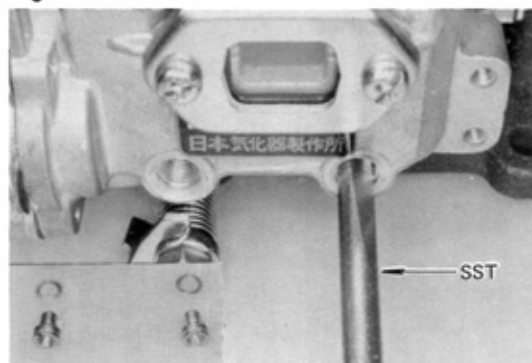
Remove AAP outlet valve plug with SST [09860-11011], then remove spring and outlet check valve.

Fig. 8-71



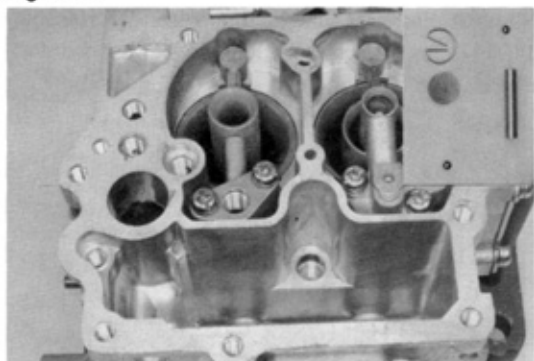
Remove power valve with SST [09860-11011].

Fig. 8-72



Remove 1st, 2nd main jet and gaskets.

Fig. 8-73



Remove snap ring, strainer and inlet check valve.

Flange

Disassemble in numerical order.

Fig. 8-74

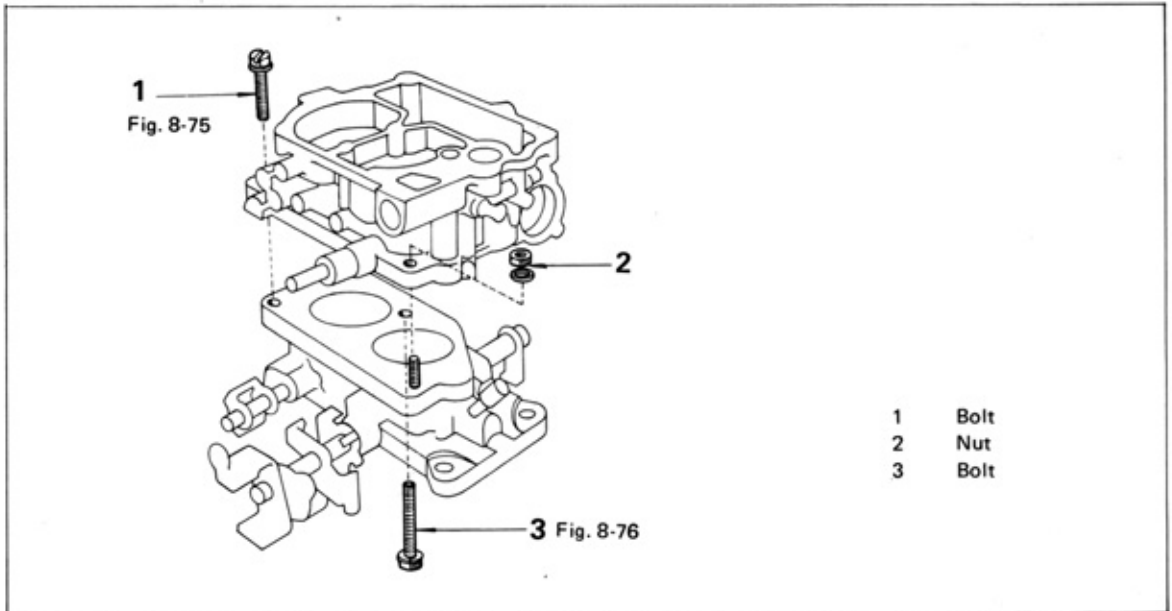
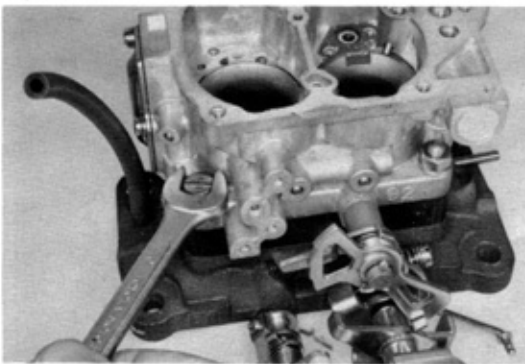
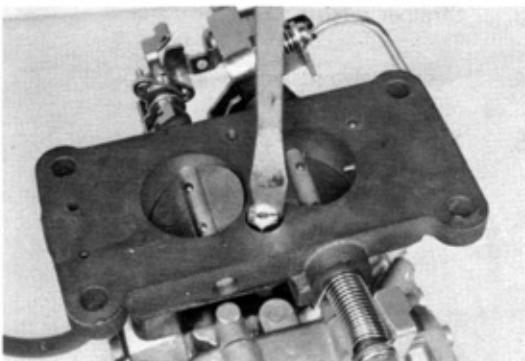


Fig. 8-75



Remove bolt and nut from body.

Fig. 8-76



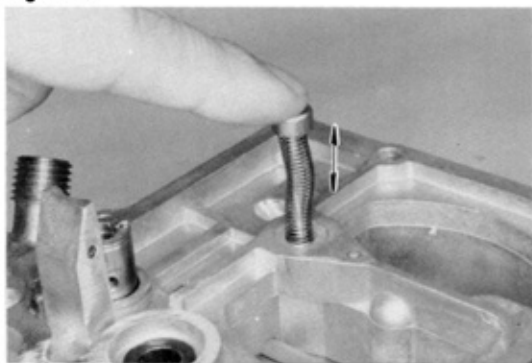
Remove bolt from flange.

INSPECTION

— Precaution —

1. Before inspecting the parts, wash them thoroughly in gasoline. Using compressed air, blow all dirt and other foreign matter from the jets and similar parts, and from the fuel passages and apertures in the body.
2. Never clean the jets or orifices with wire or a drill. This could enlarge the openings and result in excessive fuel consumption.

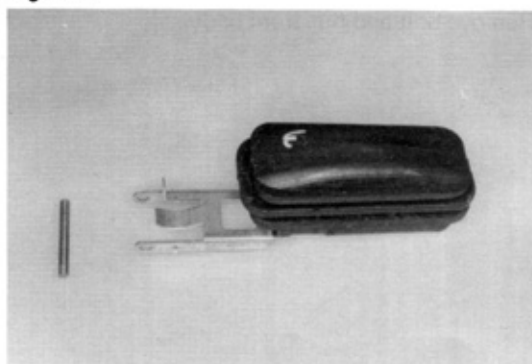
Fig. 8-77



Air Horn Parts

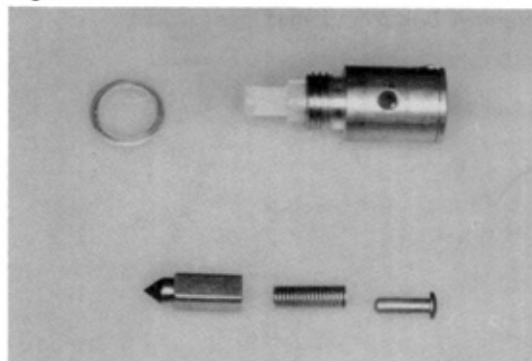
1. Make sure that power piston moves smoothly.

Fig. 8-78



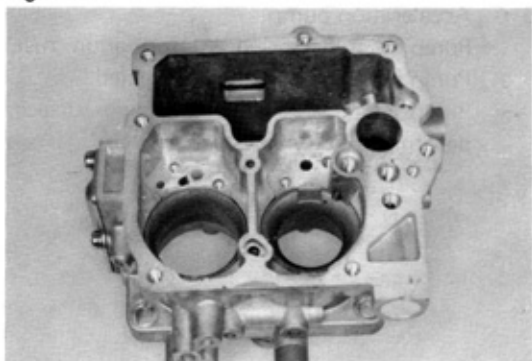
2. Check float and pivot pin for wear or broken.

Fig. 8-79



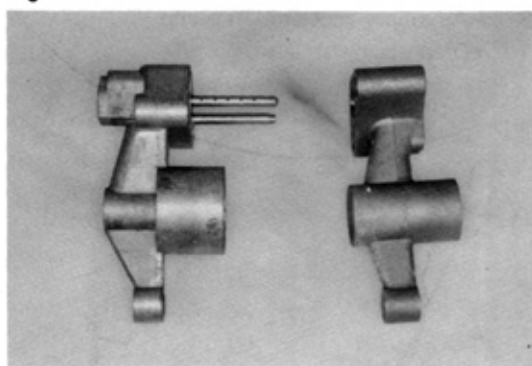
3. Strainer : Rust, breaks.
4. Needle valve surface.
5. Needle valve seat.

Fig. 8-80

**Body Parts**

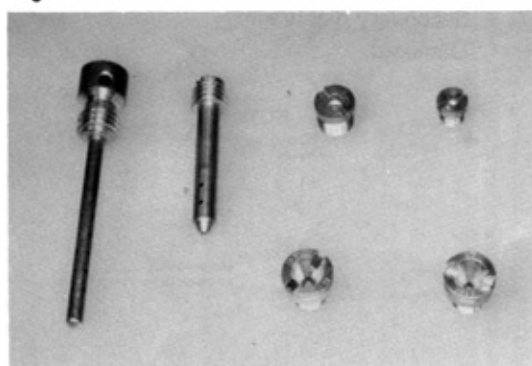
1. Body
Cracks, scored mounting surfaces, damaged threads.

Fig. 8-81



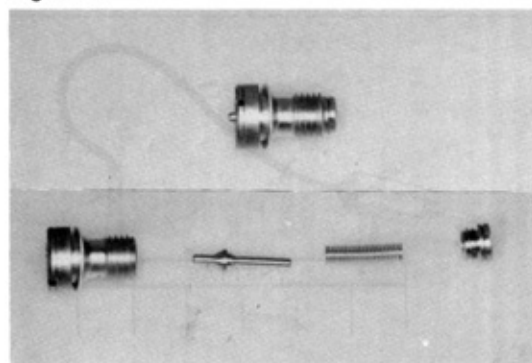
2. Venturi
Damaged.

Fig. 8-82



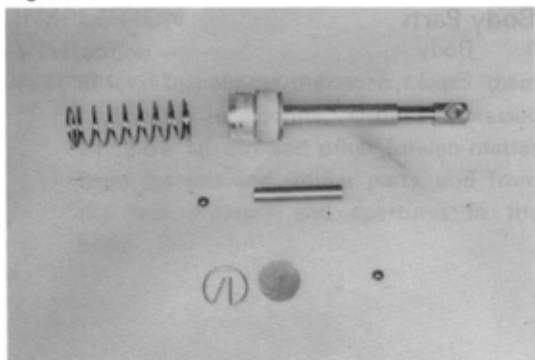
3. Jets
Damaged contacting surface, damaged threads and screwdriver slots.

Fig. 8-83



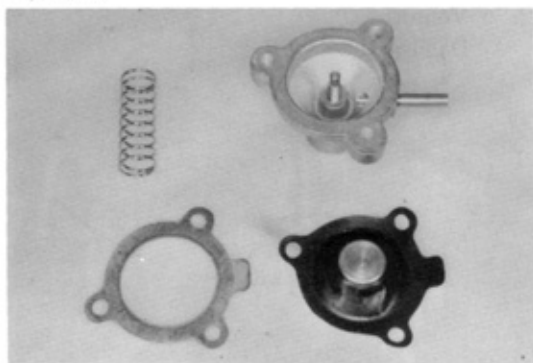
4. Power valve
Faulty opening and closing action, damaged contacting surface and threads.

Fig. 8-84



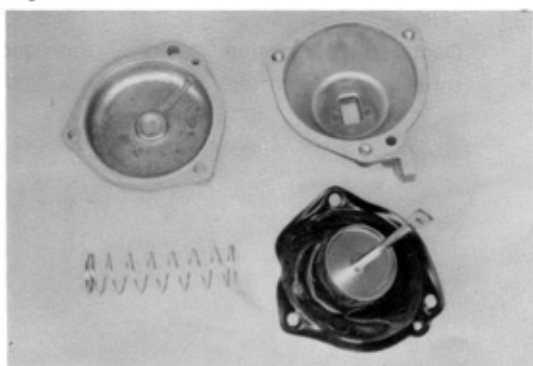
5. Acceleration pump
 Pump damping spring: Deformation, rust.
 Pump check ball: Damaged, rusted.
 Pump plunger: Wear at sliding surface,
 deformed or damaged leather.

Fig. 8-85



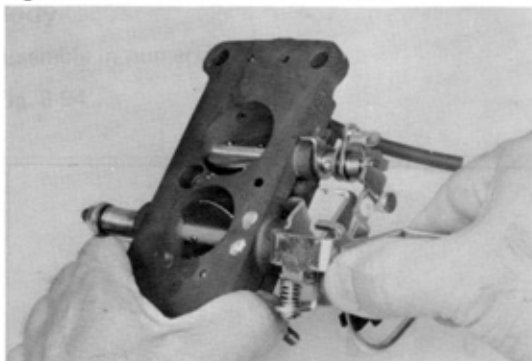
6. Auxiliary acceleration pump
 Diaphragm damaged.

Fig. 8-86



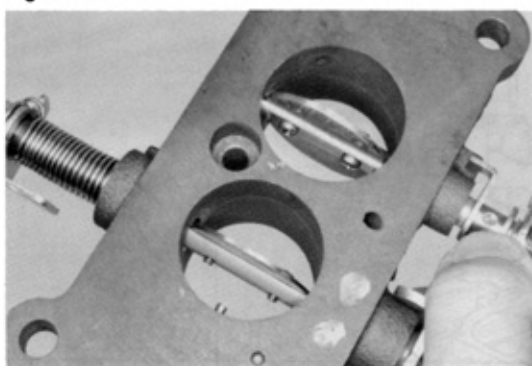
7. Secondary diaphragm
 Damaged.

Fig. 8-87

**Flange Parts**

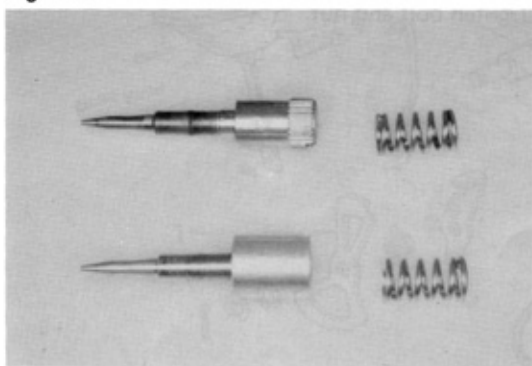
1. Flange: Cracks, injured mounting surfaces, damaged threads, wear at throttle shaft bearings.

Fig. 8-88



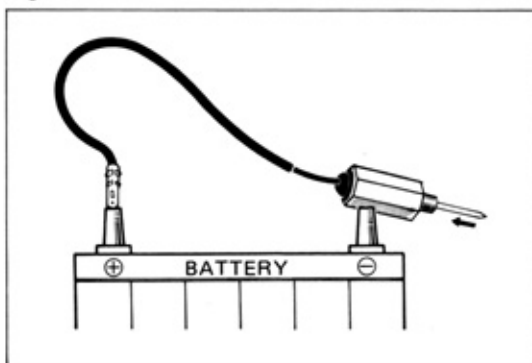
2. Throttle valves: Wear or deformation in valves. Wear, bending, twisting, or faulty movement inside housing of shaft.

Fig. 8-89



3. Idle mixture adjusting screw: Damage at tapered tip or threads.

Fig. 8-90

**Solenoid Valve**

1. Check operation of solenoid valve. Connect wiring to the battery positive terminal and ground the body. The needle valve should be pulled in.
2. Check needle valve "A" part.

ASSEMBLY

Assemble in numerical order.

Fig. 8-91

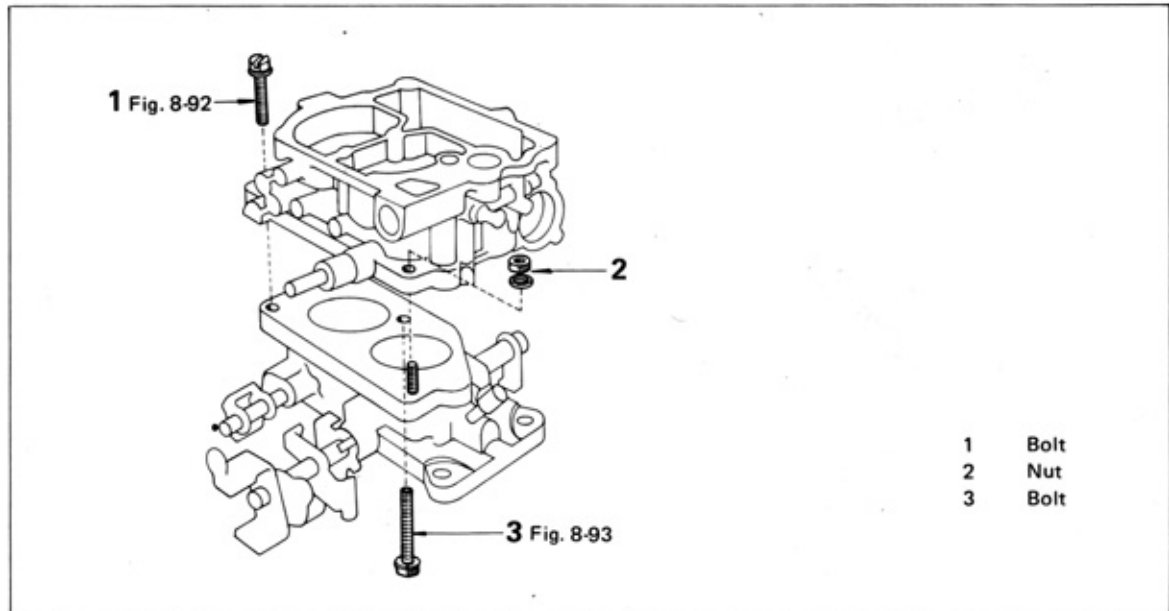
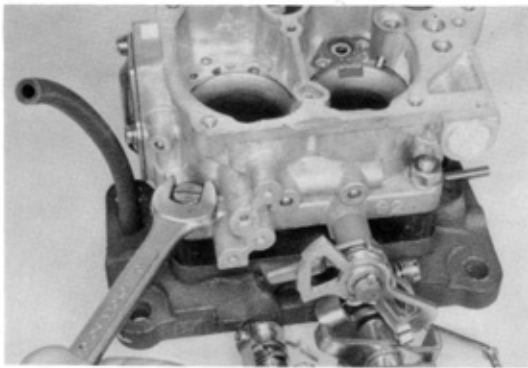
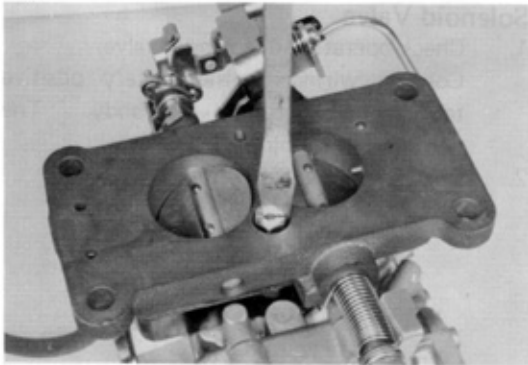


Fig. 8-92



Tighten bolt and nut.

Fig. 8-93



Tighten bolt.

Body

Assemble in numerical order.

Fig. 8-94

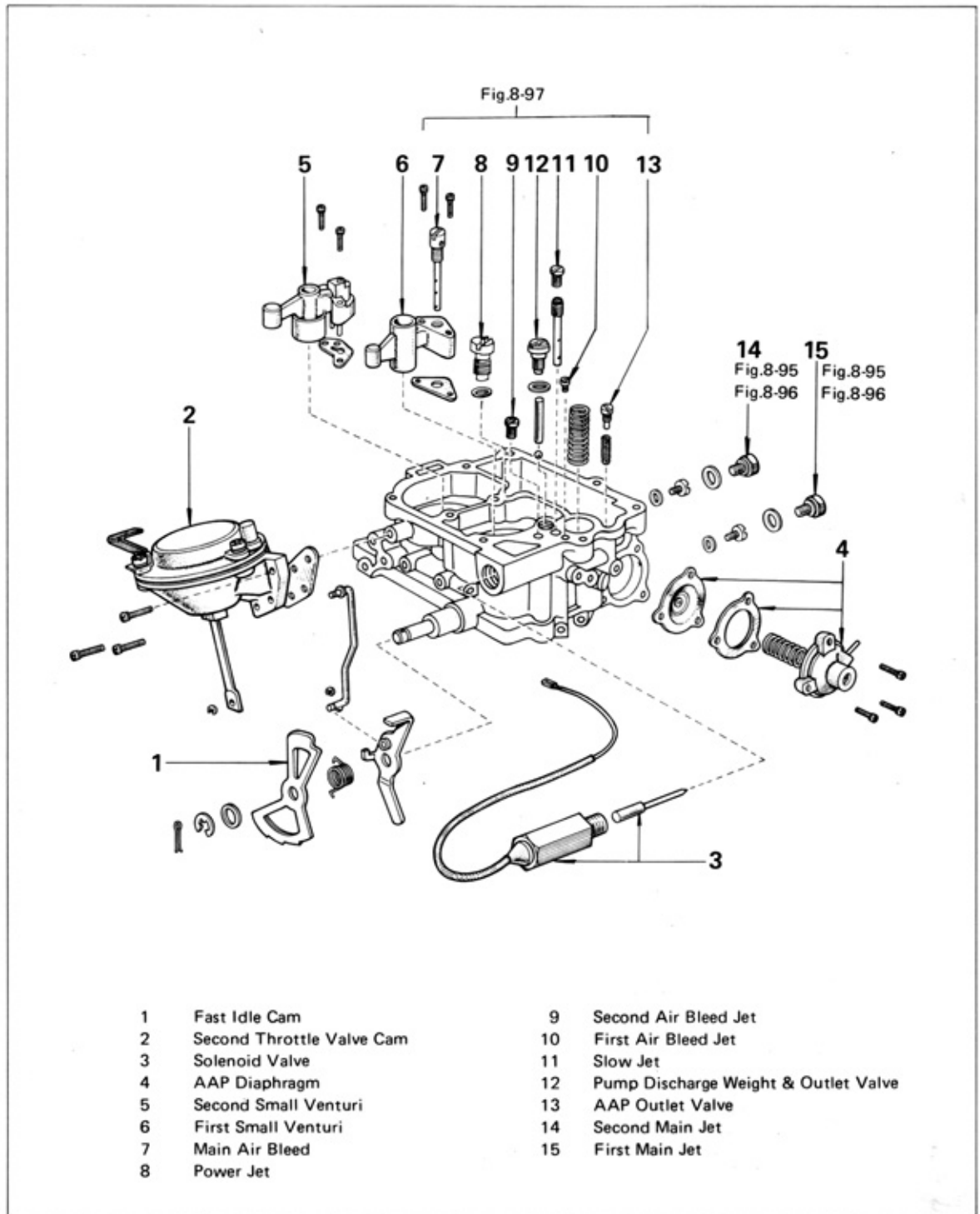
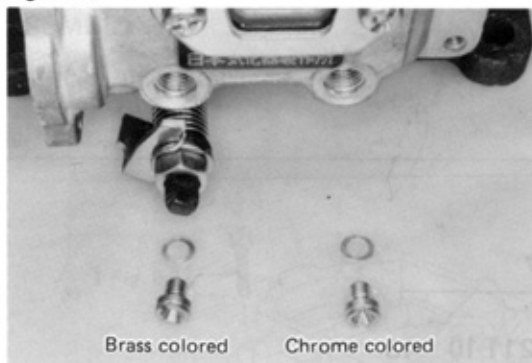


Fig. 8-95



Install main jets over gasket.

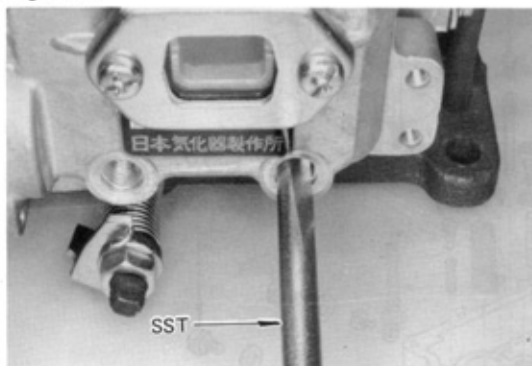
First jet

Brass colored

Second jet

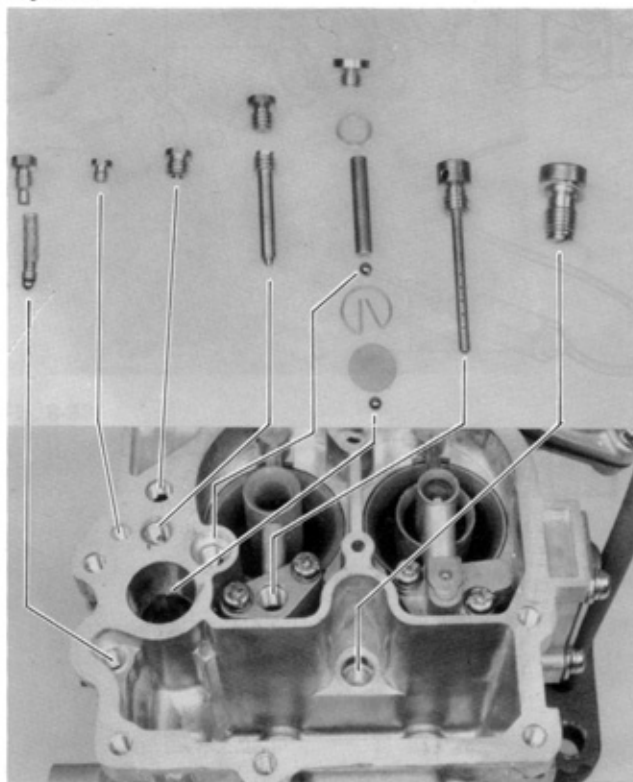
Chrome colored

Fig. 8-96



Tighten first and second main jets with SST [09860-11011].

Fig. 8-97



Install jets, air bleed, valve and plugs as shown.

Air Horn

Assemble in numerical order.

Fig. 8-98

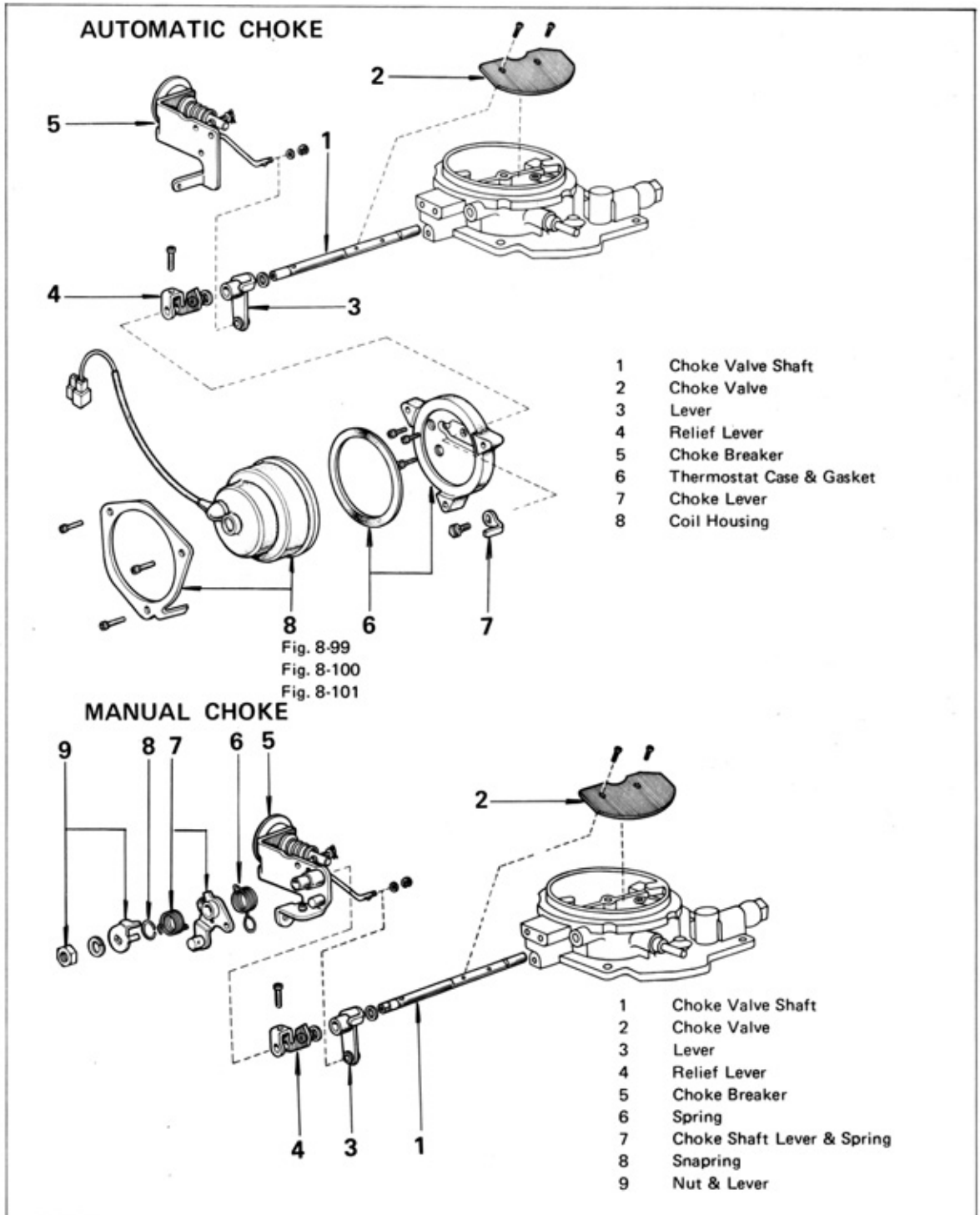
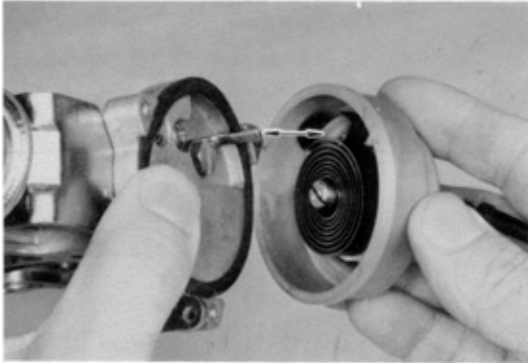
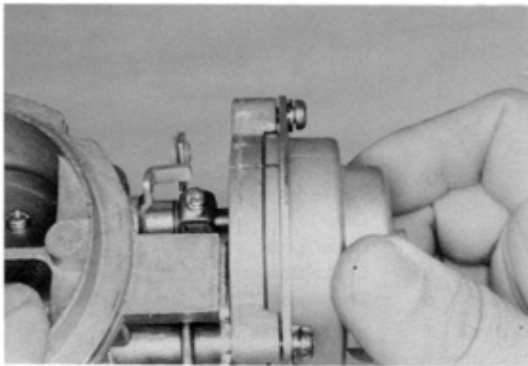


Fig. 8-99



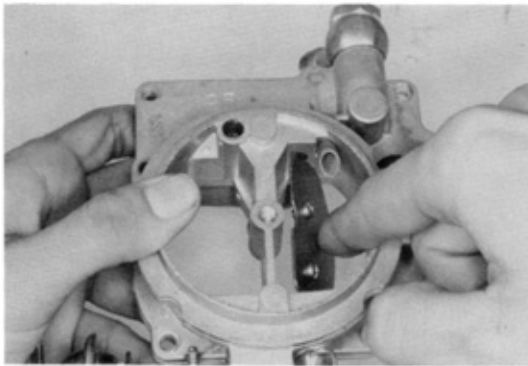
Hook lever to bimetal spring.

Fig. 8-100



Align case scale standard line against housing scale line.

Fig. 8-101



Check choke valve action.

Float

Assemble in numerical order.

Fig. 8-102

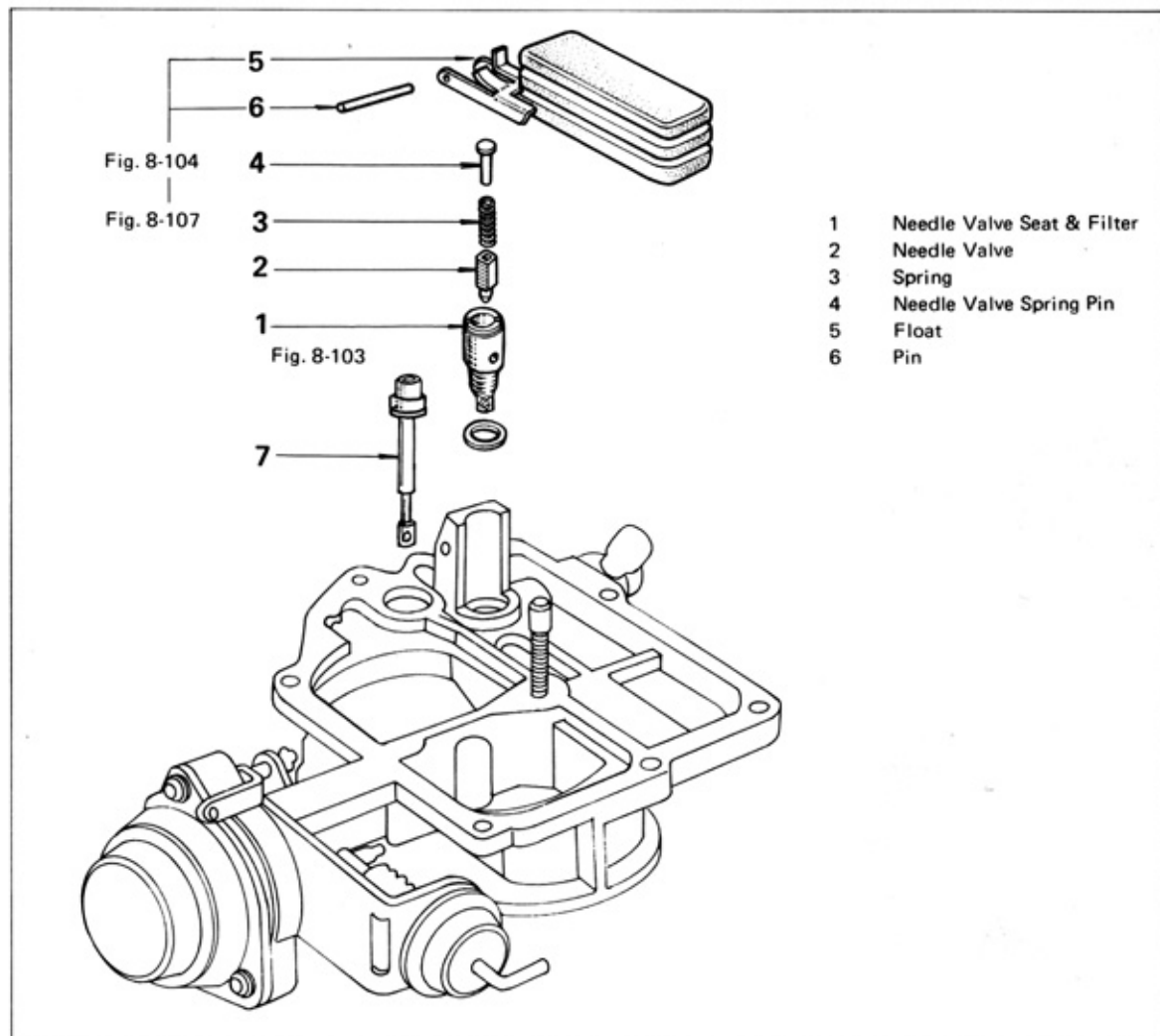
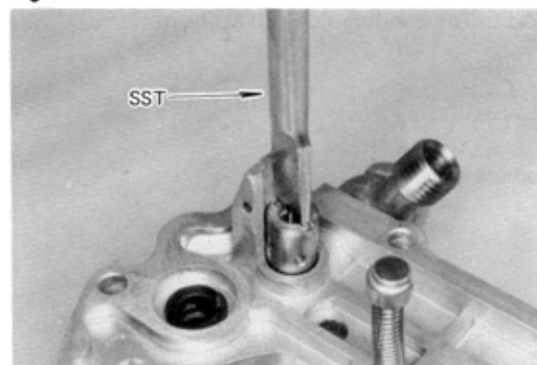
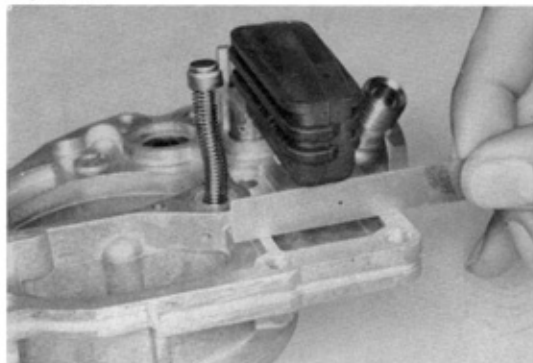


Fig. 8-103



Tighten needle valve seat with SST [09860-11011].

Fig. 8-104



Adjust float level.

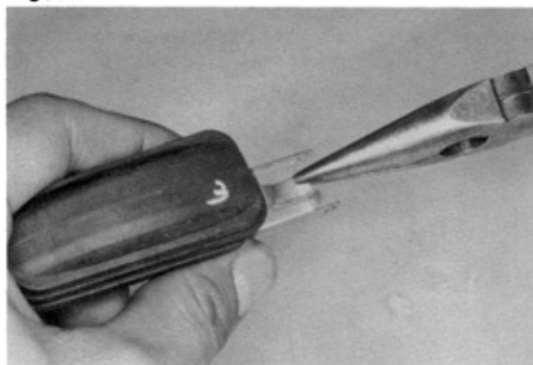
Allow the float to hang down by its own weight. Then check the clearance between the float tip and air horn with SST [09240-00014]. Adjust by bending the (A) part of float lip.

Standard **10.0 – 11.0 mm**
 (0.39 – 0.43 in)

— Note —

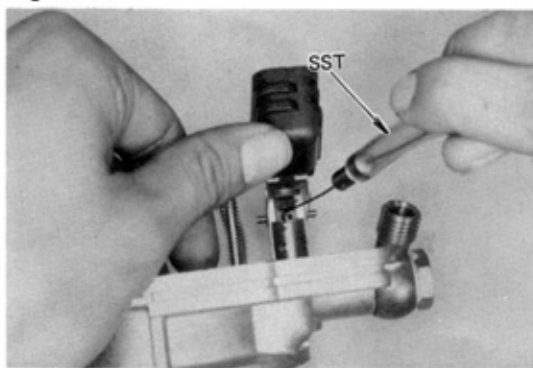
This measurement is always made without any gasket on air horn.

Fig. 8-105



Adjust by bending float lip as shown.

Fig. 8-106



Adjust lowered position.

Lift up the float and check the clearance between the needle valve plunger and float lip with SST [09240-00020]. Adjust by bending the (B) part of float lip.

Standard **1.0 – 1.2 mm**
 (0.039 – 0.047 in)

Fig. 8-107



Adjust by bending float lip as shown.

Body And Air Horn

Assemble in numerical order.

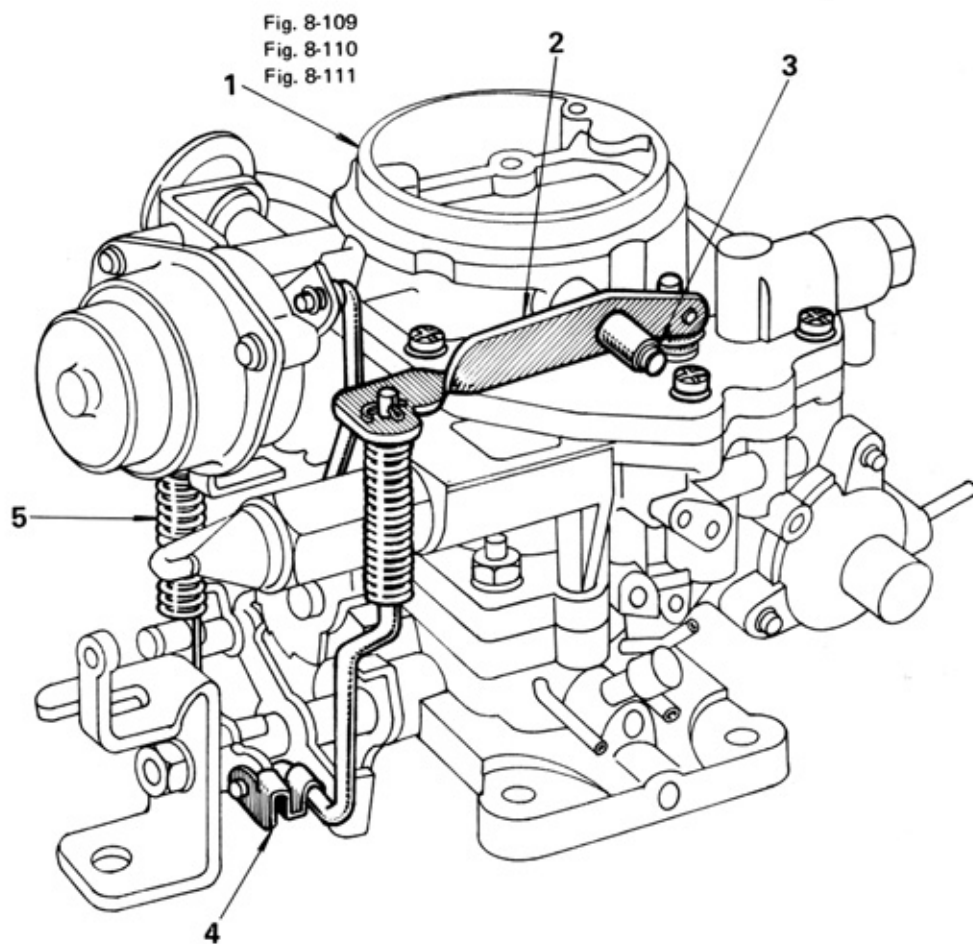
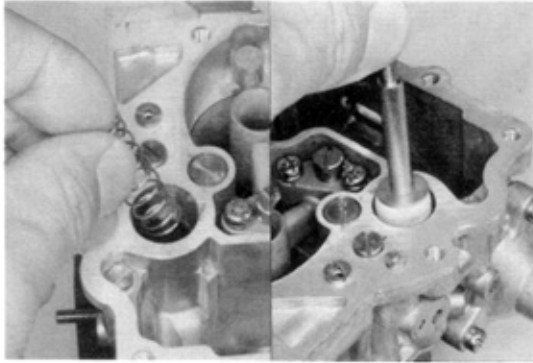
Fig. 8-108

Fig. 8-109
Fig. 8-110
Fig. 8-111

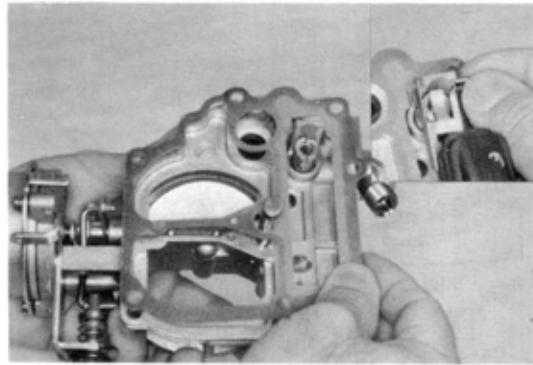
- 1 Air Horn
- 2 Pump Lever & Connecting Rod
- 3 "E" Washer
- 4 Clip
- 5 Throttle Lever Return Spring

Fig. 8-109



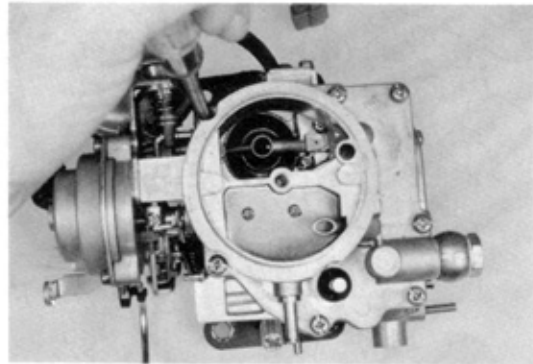
Before assembling air horn, pump damping spring and plunger.

Fig. 8-110



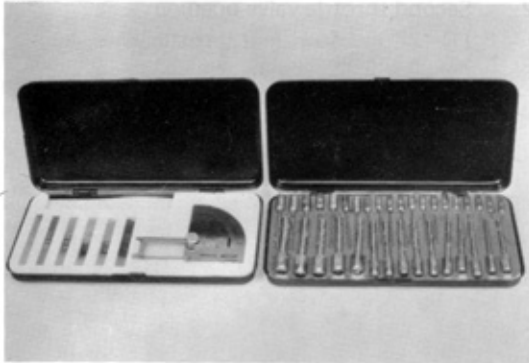
Put on gasket on air horn and install needle valve and float.

Fig. 8-111



Gradually tighten air horn set screw in 2 or 3 stages in diagonal order.

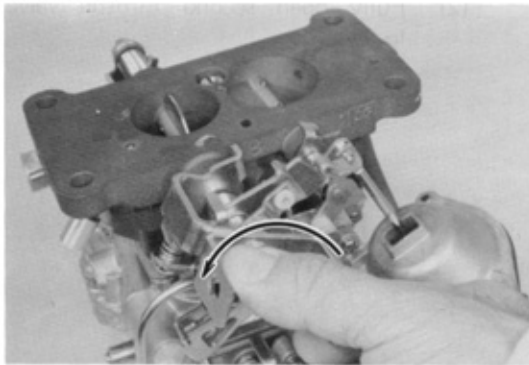
Fig. 8-112

**ADJUSTMENT**

Use SST [09240-00014 and 09240-00020] to make adjustments.

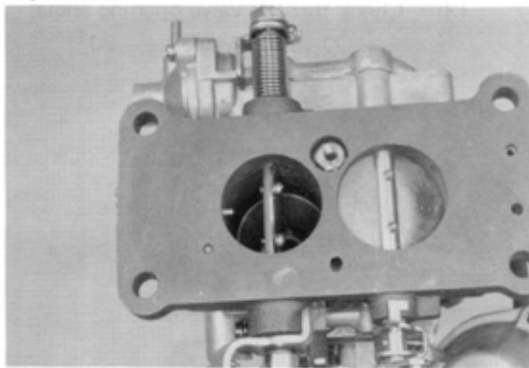


Fig. 8-113



1. First throttle valve opening.
 - (1) Fully open first throttle valve.

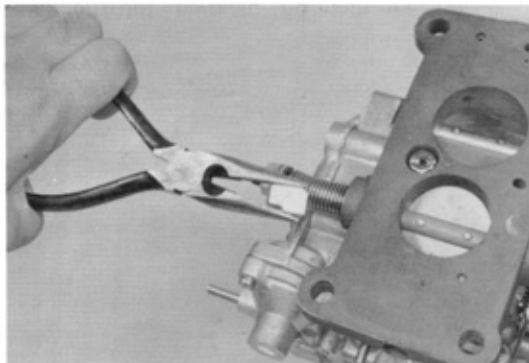
Fig. 8-114



- (2) Check first throttle valve opening angle.

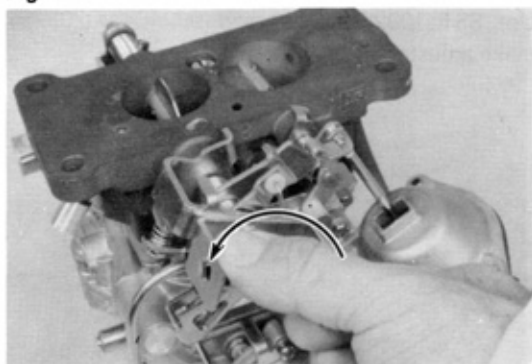
Opening Angle **90°**

Fig. 8-115



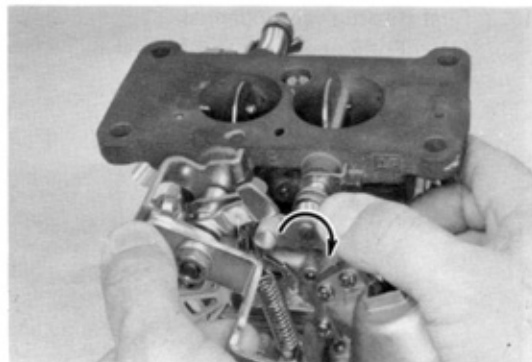
- (3) Adjust by bending throttle lever stopper.

Fig. 8-116



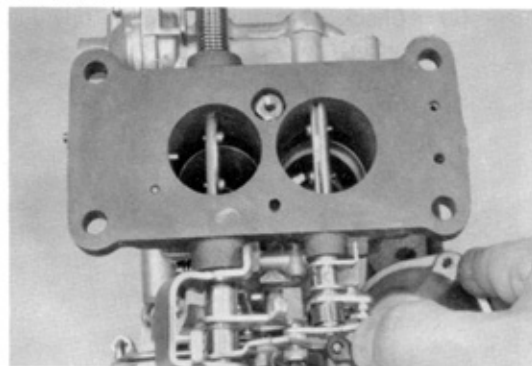
2. Second throttle valve opening
 (1) Fully open first throttle valve.

Fig. 8-117



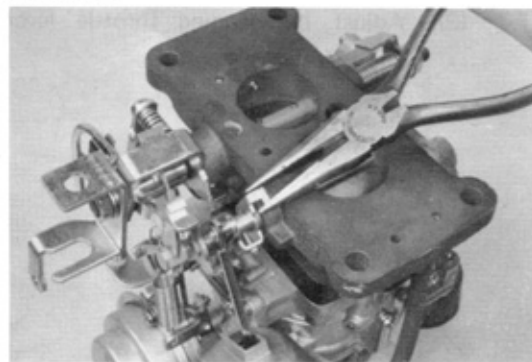
- (2) Fully open second throttle valve lever.

Fig. 8-118



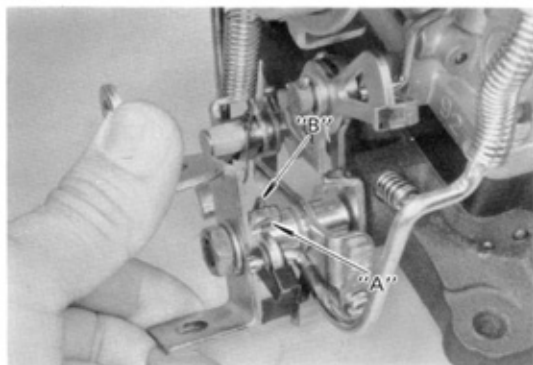
- (3) Check throttle valve opening angle.
Opening Angle 90°

Fig. 8-119



- (4) Adjust by bending throttle lever stopper.

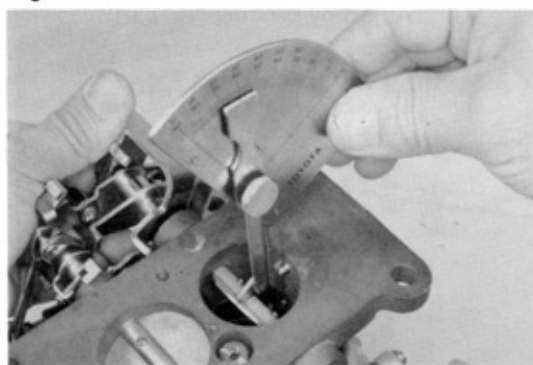
Fig. 8-120



3. Seco-touch angle.

- (1) Open first throttle valve until throttle valve lever "A" part touch "B" part.

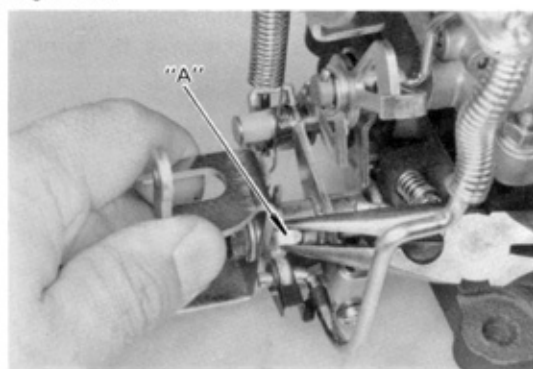
Fig. 8-121



- (2) At this time, check first throttle valve opening angle.

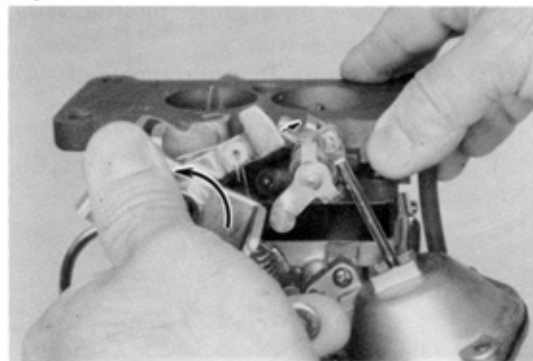
Seco-touch Angle 57 – 61°

Fig. 8-122



- (3) Adjust by bending "A" part.

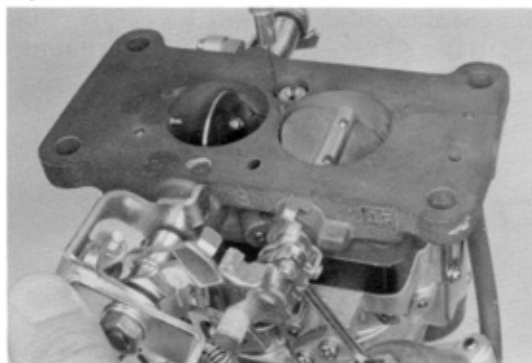
Fig. 8-123



4. Kick up

- (1) Open first throttle valve until kick arm slightly open second throttle valve.

Fig. 8-124



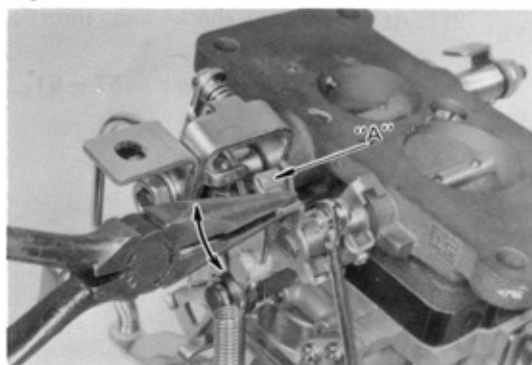
- (2) Check clearance between second throttle valve and body.

Kick up clearance

0.1 – 0.3 mm

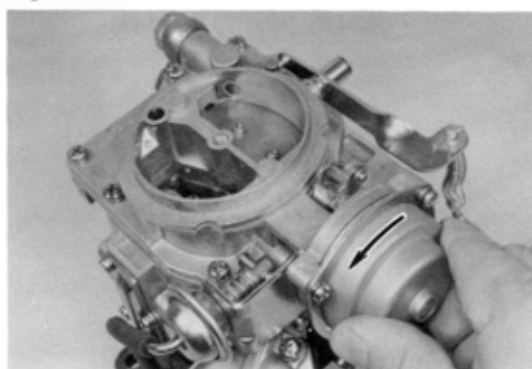
(0.004 – 0.012 in)

Fig. 8-125



- (3) Adjust by bending "A" part.

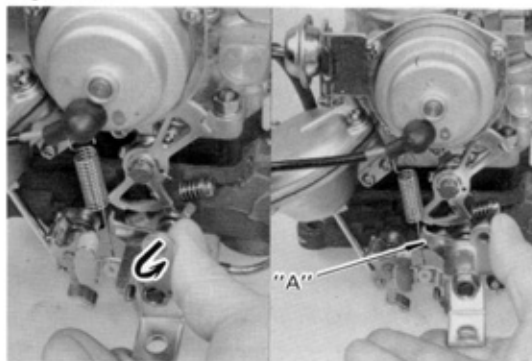
Fig. 8-126



5-1. Fast idle (only automatic choke)

- (1) Fully close choke valve by turning coil housing.

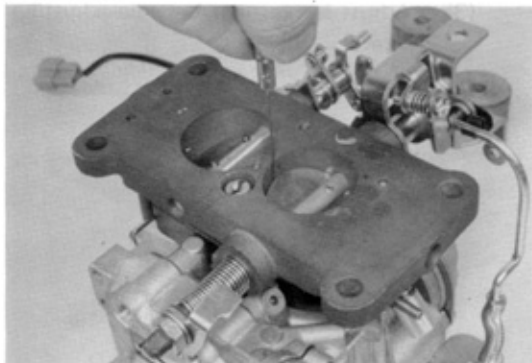
Fig. 8-127



- (2) Slightly open first throttle valve, then close it.

Make sure that throttle lever "A" part hook fast idle cam.

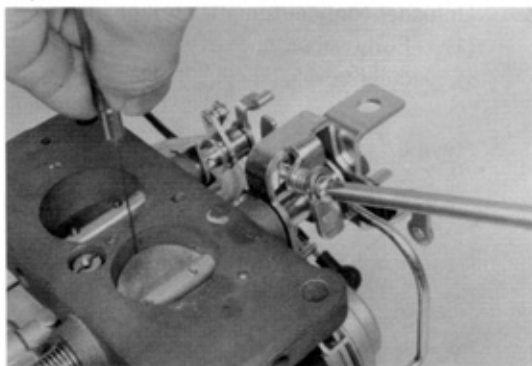
Fig. 8-128



- (3) Check clearance between first throttle valve and bore.

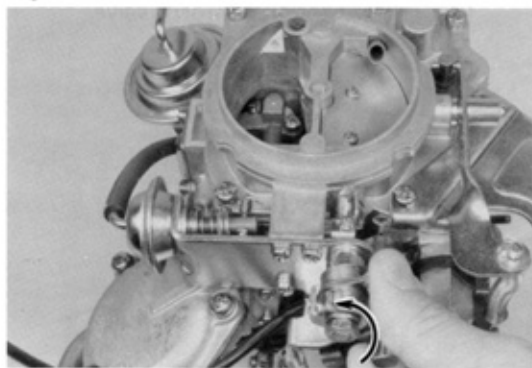
Fast idle clearance
0.81 mm (0.032 in.)

Fig. 8-129



- (4) Adjust by turning fast idle adjusting screw.

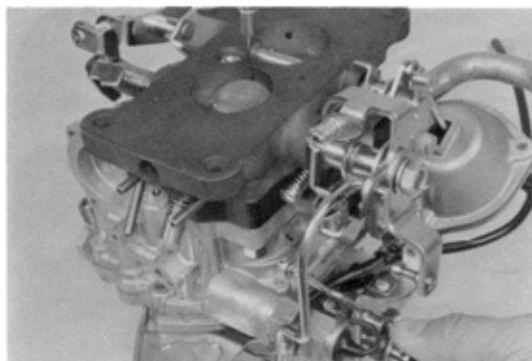
Fig. 8-130



5-2. Fast idle (only manual choke)

- (1) Fully close choke valve by turning choke shaft lever.

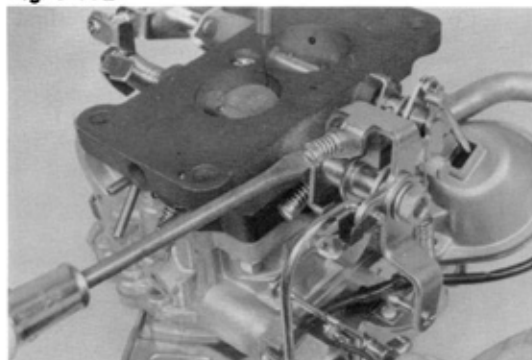
Fig. 8-131



- (2) Check clearance between first throttle valve and bore.

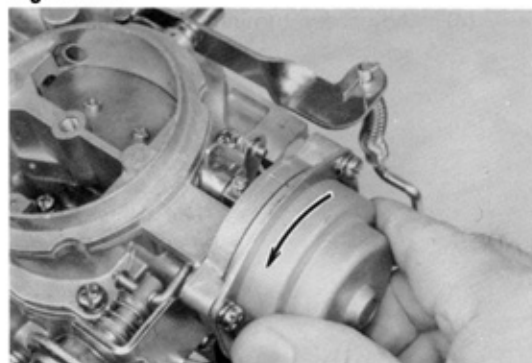
Fast idle clearance
1.01 mm (0.039 in)

Fig. 8-132



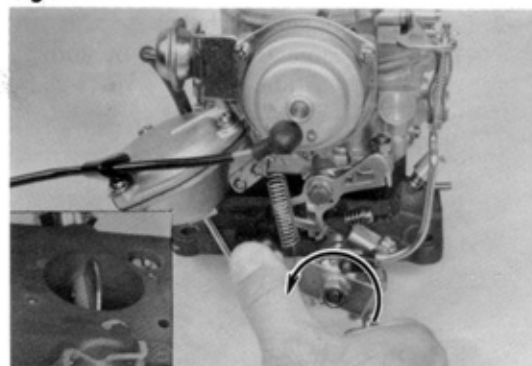
- (3) Adjust by turning fast idle adjusting screw.

Fig. 8-133



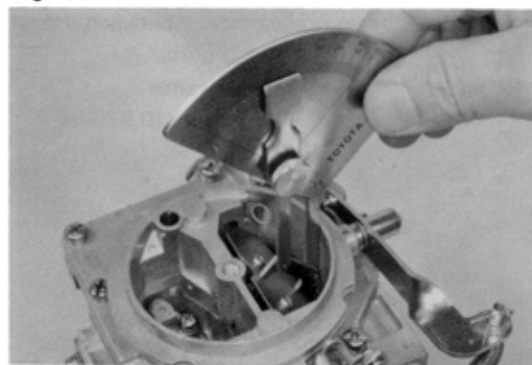
6. Unloader (only automatic choke)
 (1) Fully close choke valve by turning coil housing.

Fig. 8-134



- (2) Fully open first throttle valve.

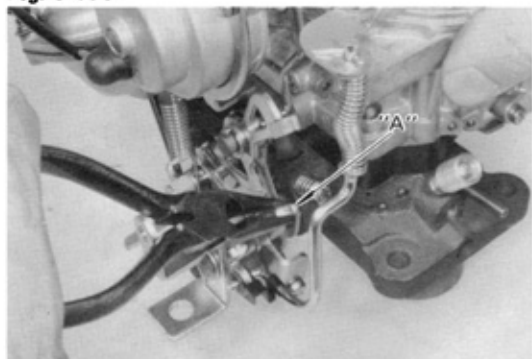
Fig. 8-135



- (3) At this time, check choke valve opening angle.

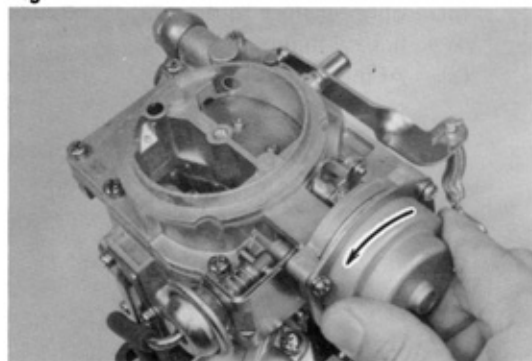
Unloader Angle 50°

Fig. 8-136



- (4) Adjust by bending "A" part.

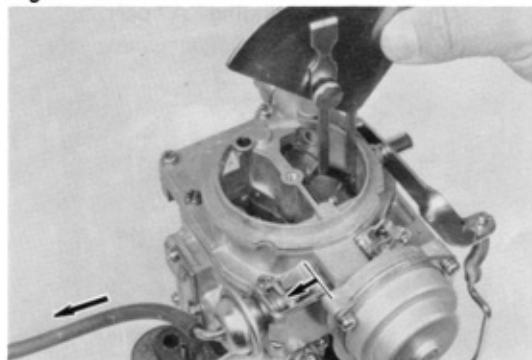
Fig. 8-137



7-1. Choke breaker (only automatic choke)

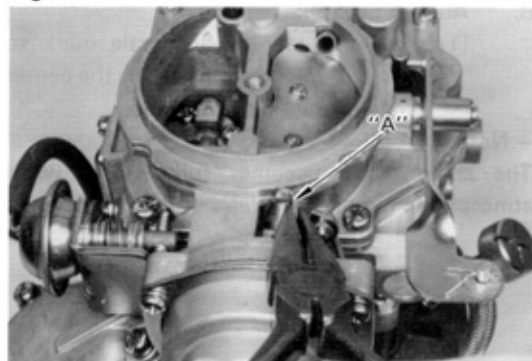
- (1) Fully close choke valve by turning coil housing.

Fig. 8-138



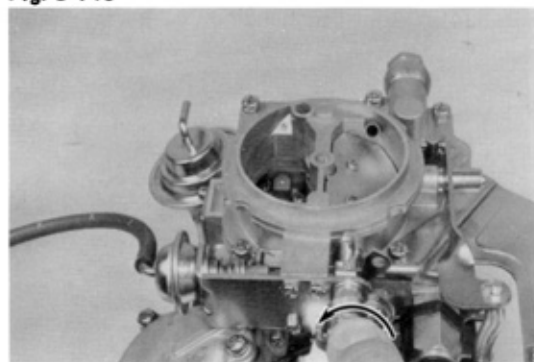
- (2) Connect hose to diaphragm and suck hose with mouth.
 (3) At this time, check clearance between choke valve and bore.

Fig. 8-139



- (4) Adjust by bending "A" part.

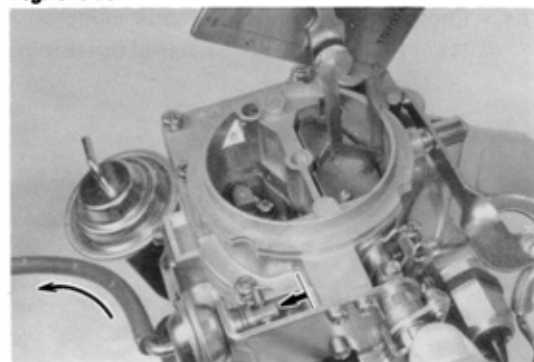
Fig. 8-140



7-2. Choke breaker (only manual choke)

- (1) Fully close chock valve by turning choke lever.

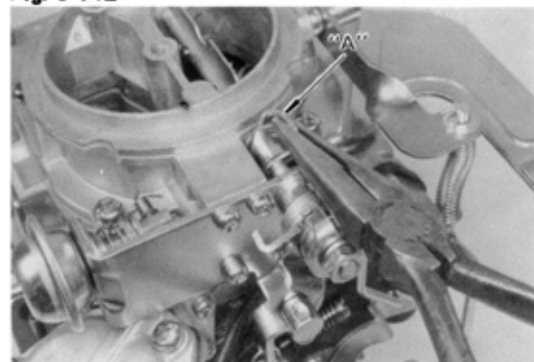
Fig. 8-141



- (2) Connect hose to diaphragm and suck hose with mouth.

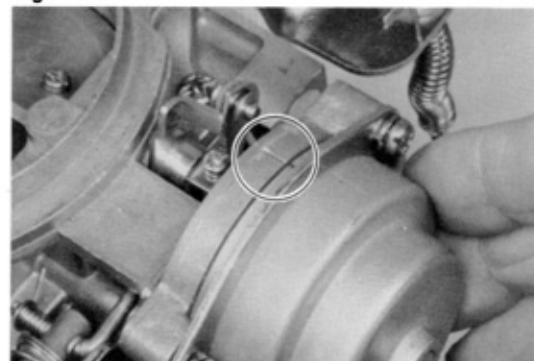
- (3) At this time, check clearance between choke lever, and bore.

Fig. 8-142



- (4) Adjust by bending "A" part.

Fig. 8-143



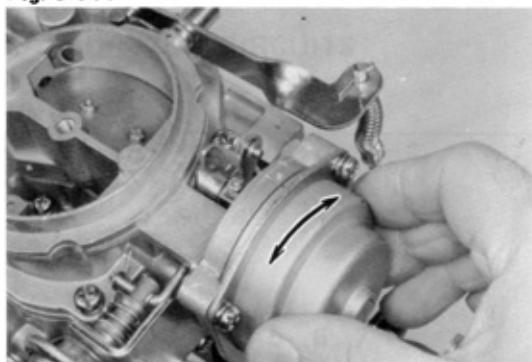
8. Automatic choke

- (1) Set the coil housing scale mark so that it will be aligned with the center line of the thermostat case.

— Note —

The choke valve becomes fully closed when atmospheric temperature reaches 25°C (77°F).

Fig. 8-144

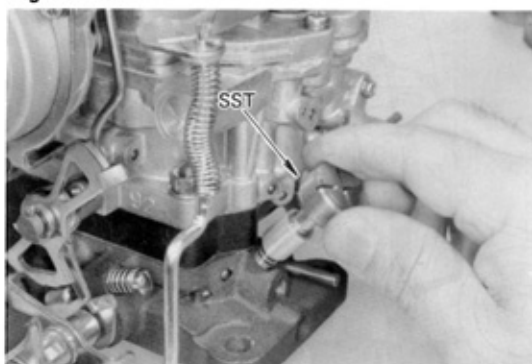


- (2) Depending on the vehicle operating conditions, turn the coil housing and adjust the engine starting mixture.

If too rich Turn clock-wise.

If too lean ... Turn counterclock-wise.

Fig. 8-145



9. Idle mixture adjusting screw.
Screw in the idle mixture adjusting screw and then unscrew it by the following amount.

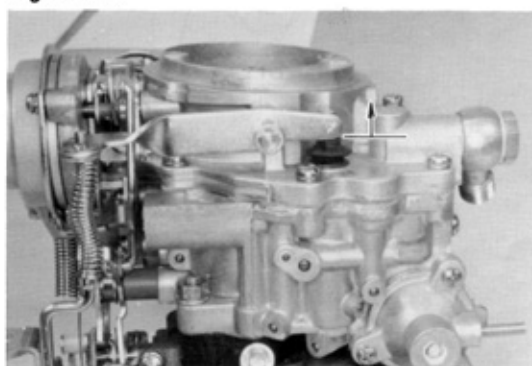
Standard (Reference only)

Returned about 3 turns from full closed

— Caution —

Take care not to screw in too tightly and damage the screw tip.

Fig. 8-146



10. Accelerating pump
Adjust the pump stroke by bending part (A).

Standard 4.0 mm (0.16 in)

— Note —

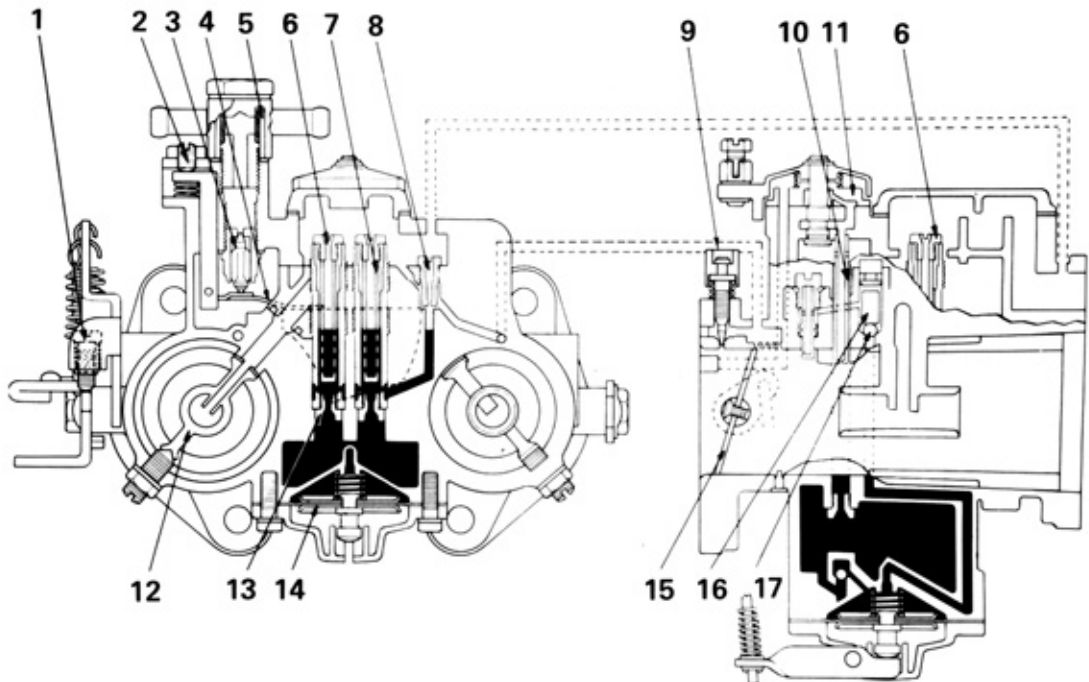
After adjustment is made, be sure to check the linkage to see that it operates smoothly.

MEMO

CARBURETOR(FOR 18R-G ENGINE)

CARBURETOR CIRCUITS

Fig. 8-150



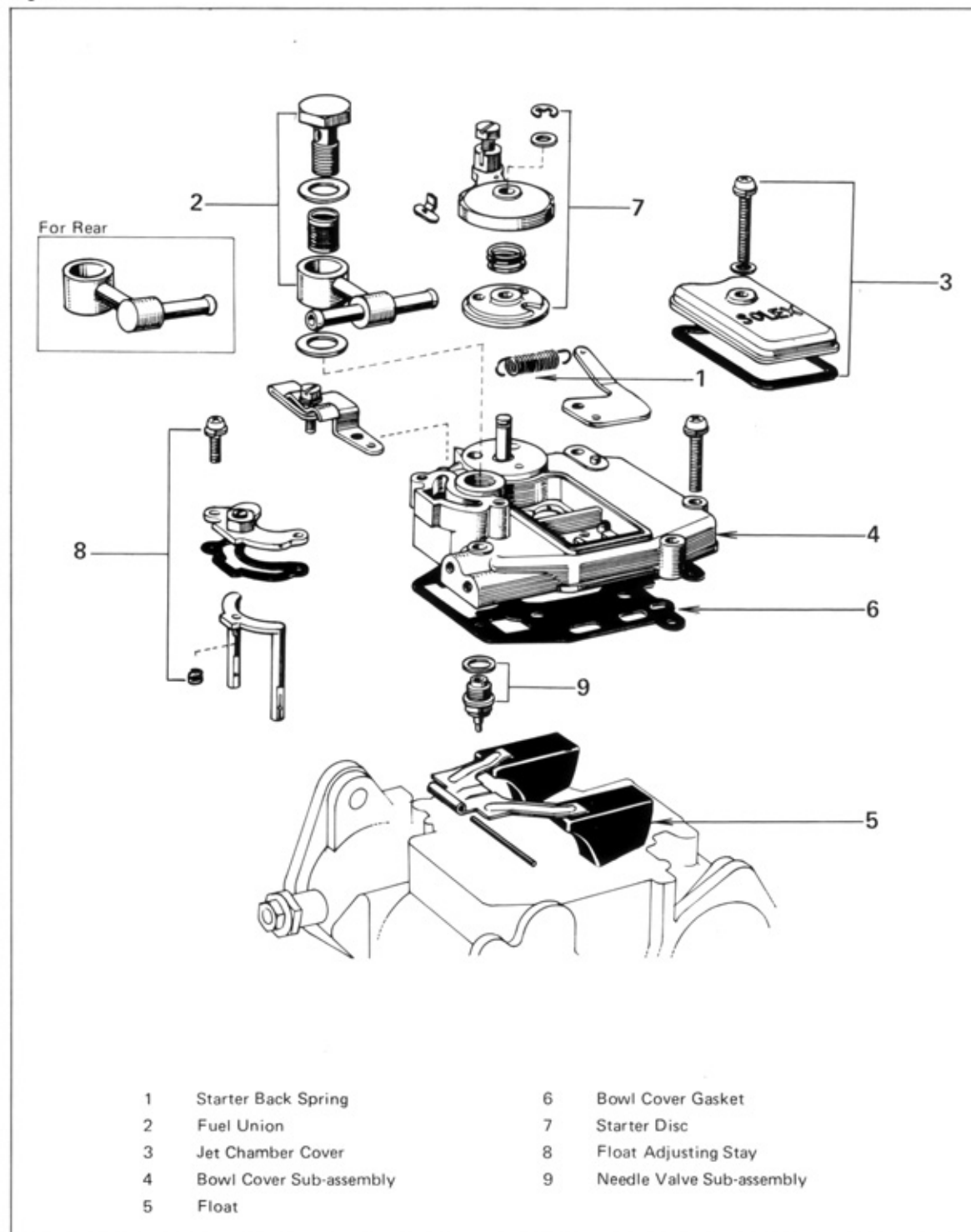
- | | | | |
|---|------------------------------|----|----------------------------|
| 1 | Idle Speed Adjusting Screw | 10 | Air Bleed Tube |
| 2 | Screw (For Float Adjustment) | 11 | Starter Disc |
| 3 | Needle Valve Sub-assembly | 12 | Inner Venturi |
| 4 | Float Sub-assembly | 13 | Main Jet |
| 5 | Strainer | 14 | Diaphragm Rod Sub-assembly |
| 6 | Main Air Bleed Jet | 15 | Throttle Valve |
| 7 | Main Air Bleed Tube | 16 | Pump Valve Weight |
| 8 | Slow Jet | 17 | Pump Valve Check Ball |
| 9 | Idle Mixture Adjusting Screw | | |

DISASSEMBLY

Bowl Cover

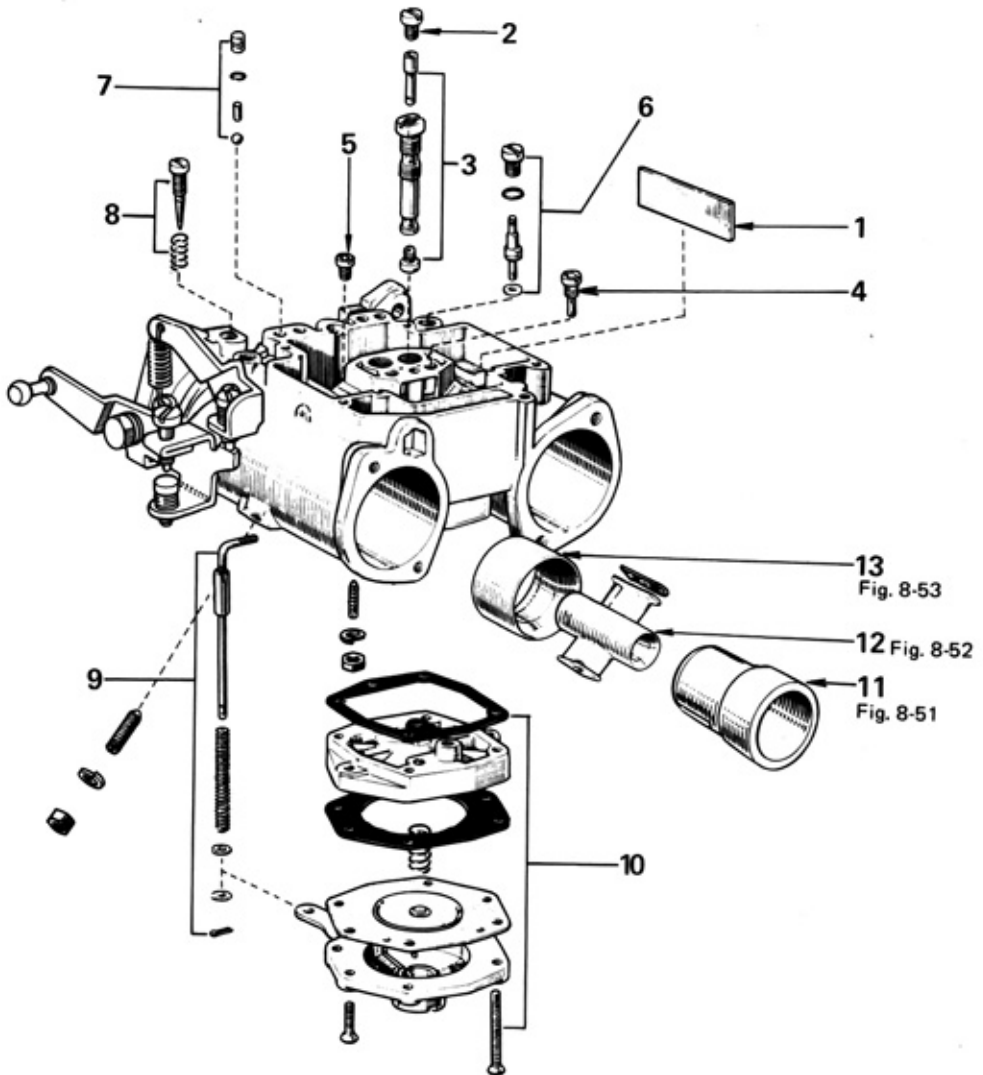
Disassemble in numerical order.

Fig. 8-151



Body

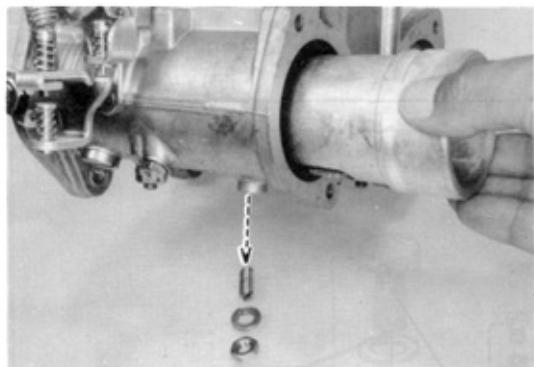
Disassemble in numerical order.

Fig. 8-152

- 1 Float Chamber Plate
- 2 Main Air Bleed Jet
- 3 Main Jet Holder
- 4 Slow Jet
- 5 Starter Jet
- 6 Pump Nozzle
- 7 Pump Check Valve

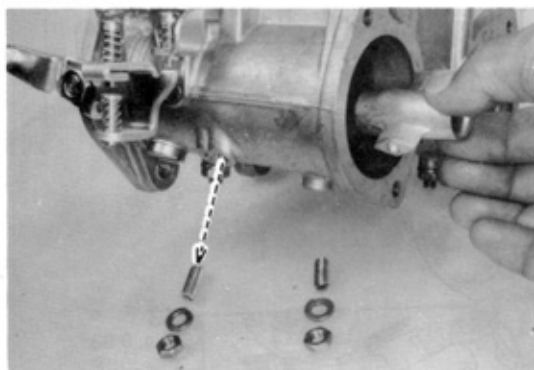
- 8 Idle Mixture Adjusting Screw
- 9 Pump Rod
- 10 Accelerating Pump
- 11 Sleeve
- 12 Small Venturi
- 13 Large Venturi

Fig. 8-153



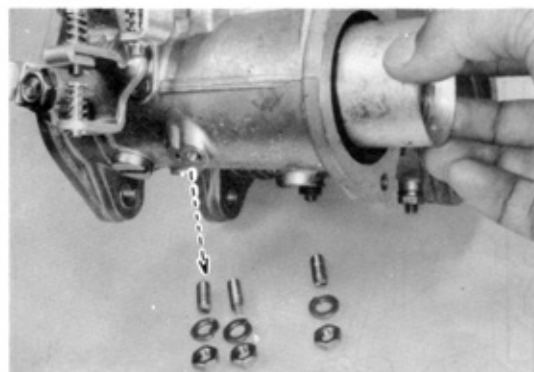
Remove the set screw and take out the sleeve.

Fig. 8-154



Remove the set screw and take out the small venturi.

Fig. 8-155



Remove the set screw and take out the large venturi.

INSPECTION**— Precaution —**

1. Before inspecting the parts, wash them thoroughly in gasoline. Using compressed air, blow all dirt and other foreign matter from the jets and similar parts, and from the fuel passages and apertures in the body.
2. Never clean the jets or orifices with wire or a drill. This could enlarge the openings and result in excessive fuel consumption.

Fig. 8-156

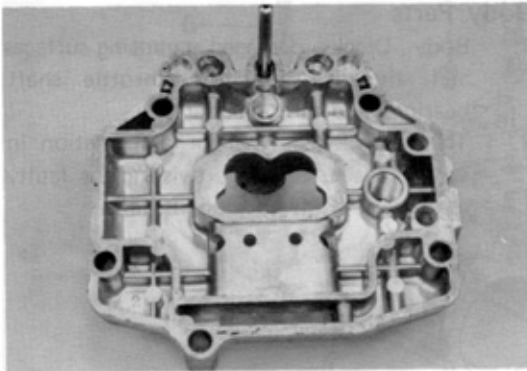


Fig. 8-157

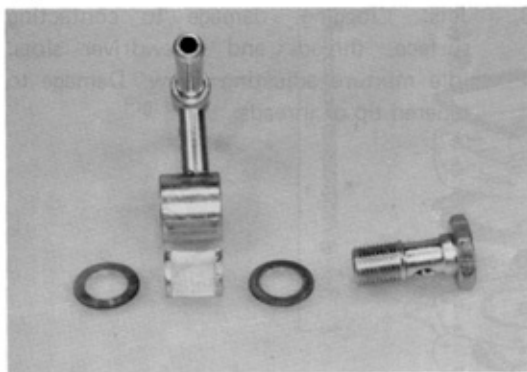
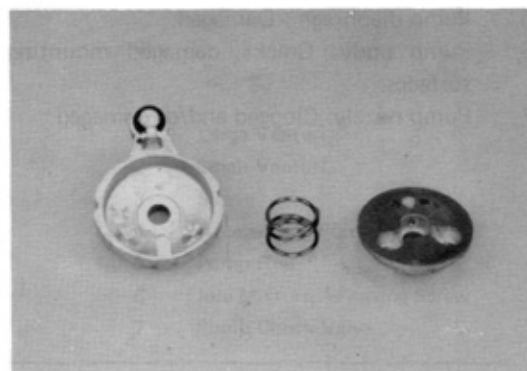


Fig. 8-158



Inspect the following parts and replace any part damaged.

Bowl Cover Parts

1. Bowl cover: Cracks, damaged threads.
2. Starter pipe: Damaged and/or clogged.



3. Filter: Clogged, rusted, or damaged.

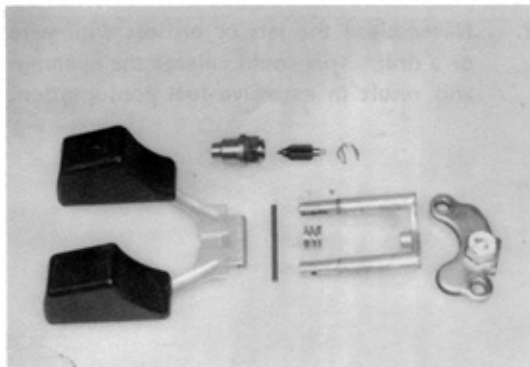
— Note —

New gasket must always be used whenever the union is removed.



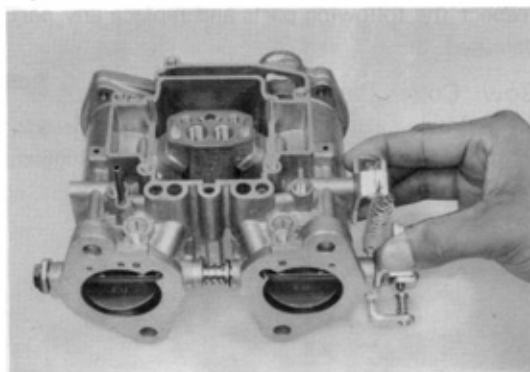
4. Starter disc: Damaged or worn sliding surface.

Fig. 8-159



5. Needle valve: Contacting valve seat.
6. Float: Deformed, wear in float lever pin holes, bent float arms.

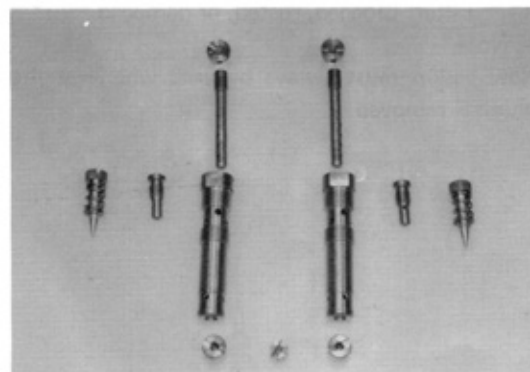
Fig. 8-160



Body Parts

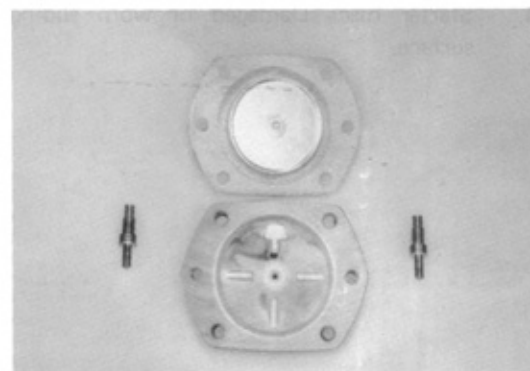
1. Body: Cracks, damaged mounting surfaces and threads, wear on throttle shaft bearings, and carbon adherence.
2. Throttle valves: Wear or deformation in valves. Wear, bending, twisting, or faulty movement inside housing of shaft.

Fig. 8-161



3. Jets: Clogging, damage to contacting surface, threads and screwdriver slots.
4. Idle mixture adjusting screw: Damage to tapered tip or threads.

Fig. 8-162



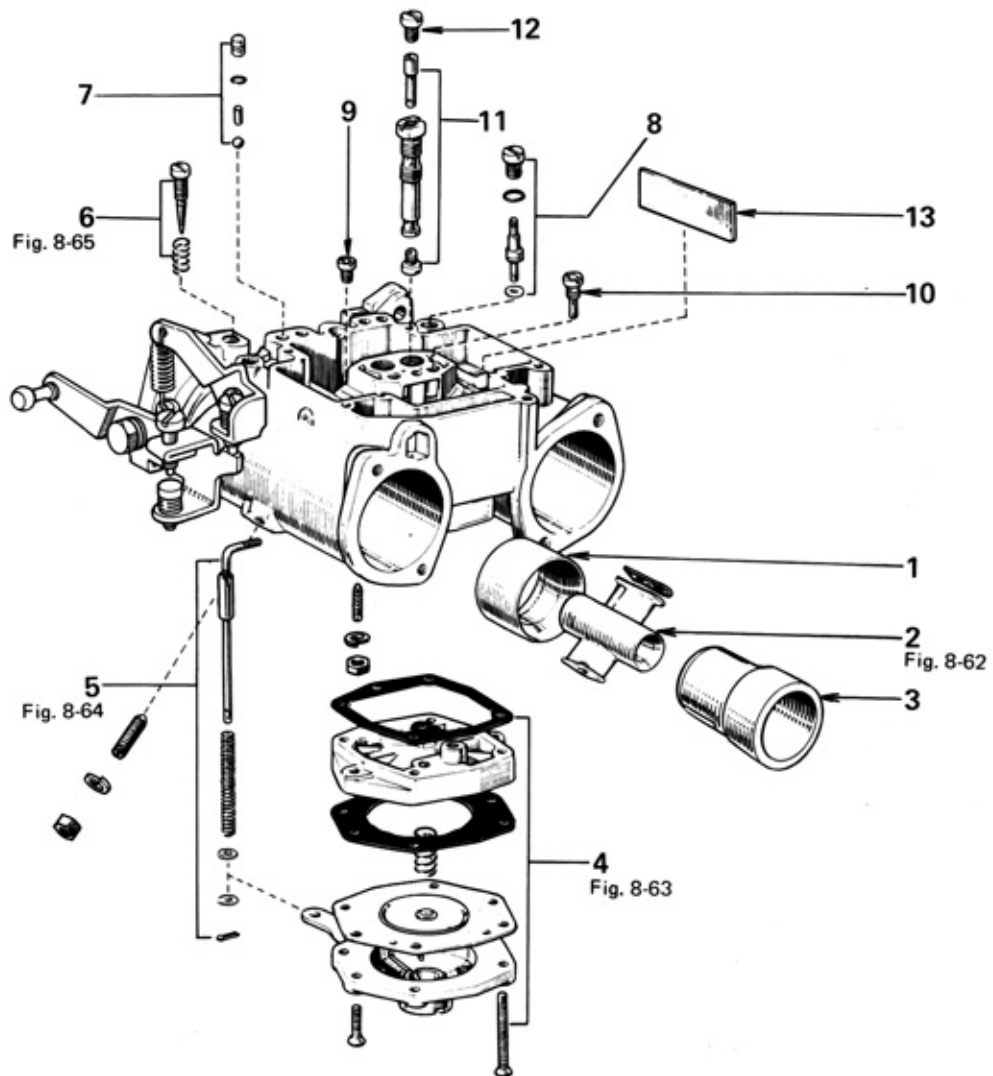
5. Pump diaphragm: Damaged.
6. Pump body: Cracks, damaged mounting surfaces.
7. Pump nozzle: Clogged and/or damaged.

ASSEMBLY

Body

Assemble in numerical order.

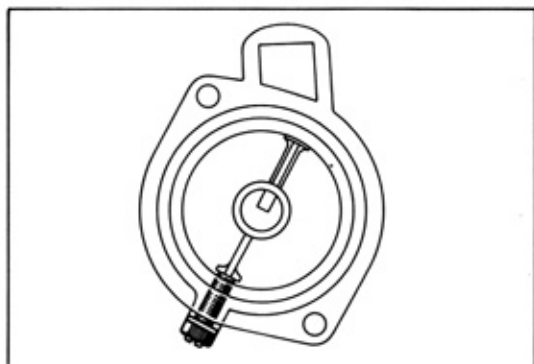
Fig. 8-163



- 1 Large Venturi
- 2 Small Venturi
- 3 Sleeve
- 4 Accelerating Pump
- 5 Pump Rod
- 6 Idle Mixture Adjusting Screw
- 7 Pump Check Valve

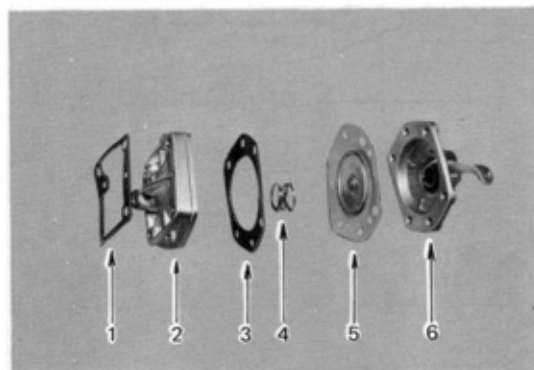
- 8 Pump Nozzle
- 9 Starter Jet
- 10 Slow Jet
- 11 Main Jet Holder
- 12 Main Air Bleed Jet
- 13 Float Chamber Plate

Fig. 8-164



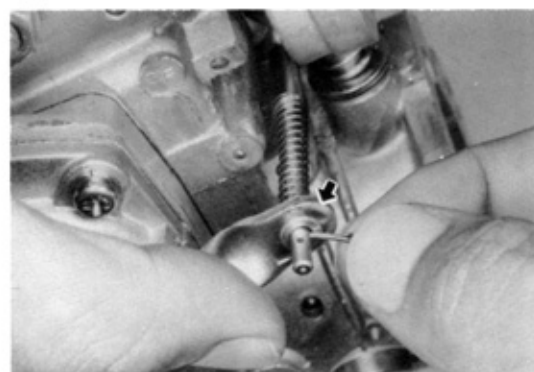
Using the longest screw, assemble the small venturi as shown.

Fig. 8-165



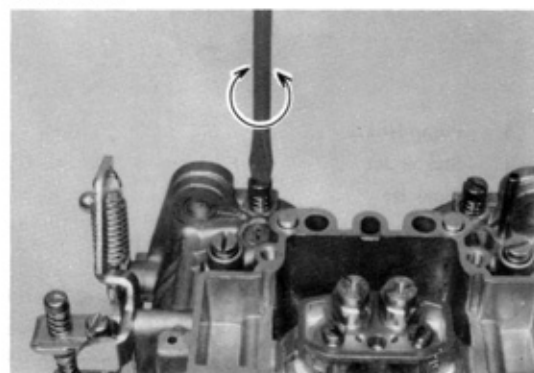
Assemble the accelerating pump in numerical order as shown.

Fig. 8-166



Install the cotter pin in the third hole from the tip of pump rod.

Fig. 8-167



Screw out $1\frac{1}{2}$ turn from fully closed position.
 — Note —
 Take care not to mistake the left and right sides.

Bowl Cover

Assemble in numerical order.

Fig. 8-168

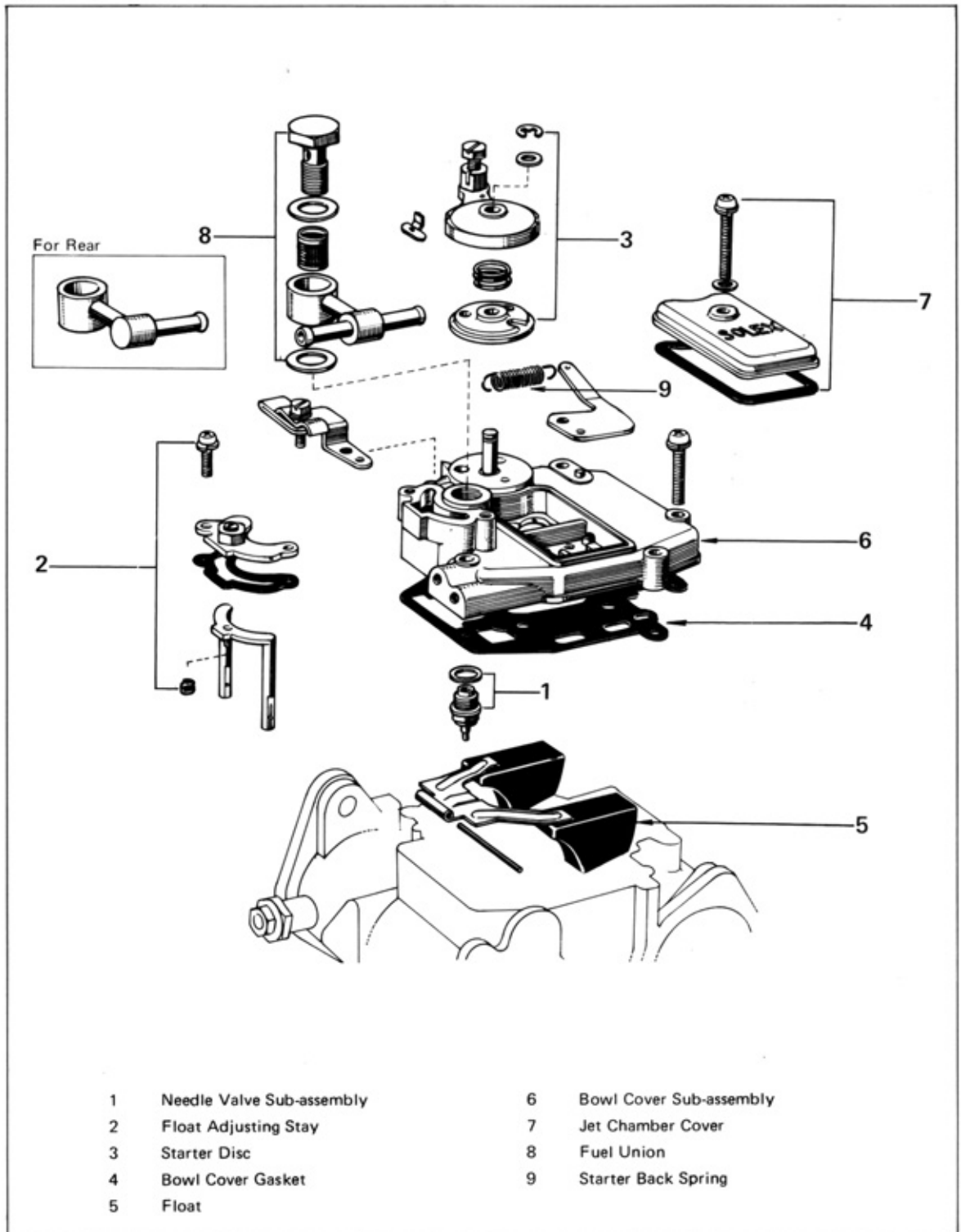
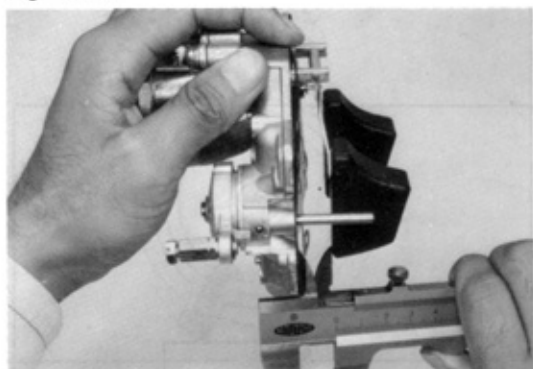


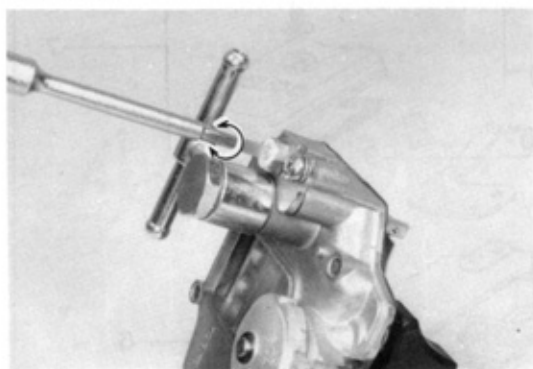
Fig. 8-170



Preset the float position.

About 16 mm (0.63 in) from bowl cover lower surface.

Fig. 8-169



Adjust the float position as shown, if necessary.