FUEL SYSTEM

FUEL PUMP

CUTAWAY VIEW

Fig. 6-1

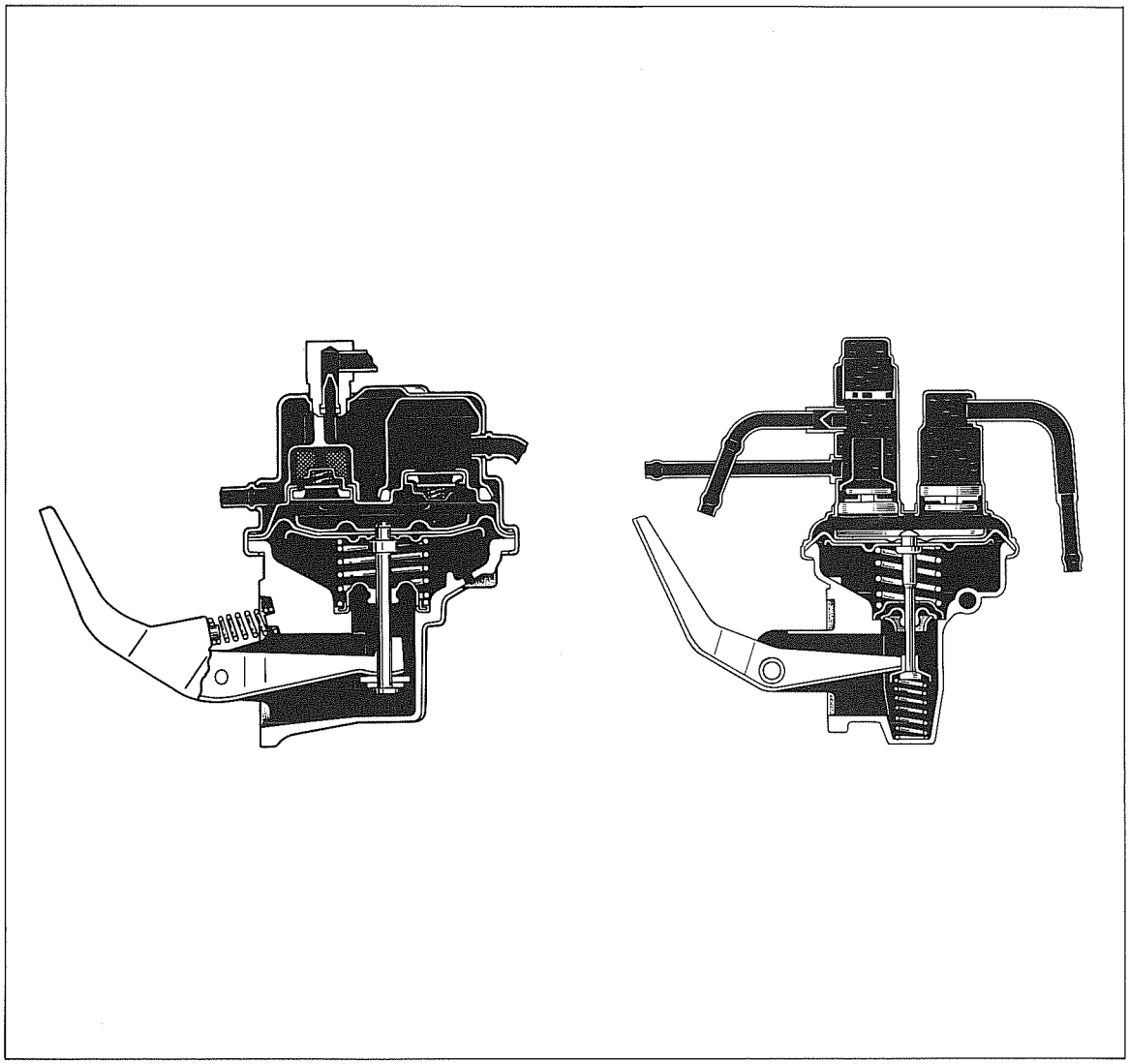
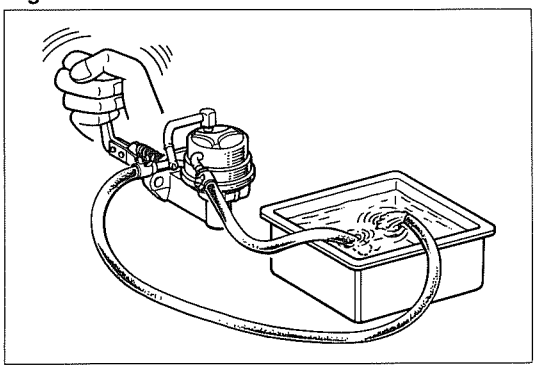


Fig. 6-2



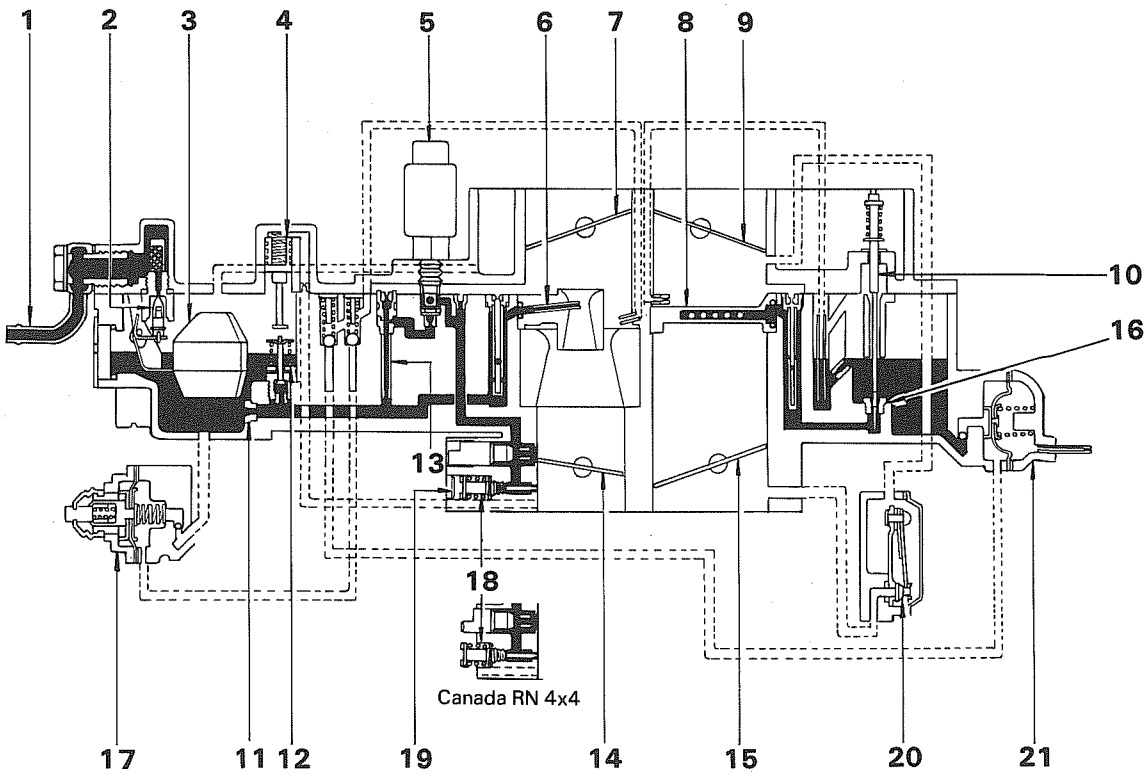
INSPECTION

Operate the lever and confirm that fuel is being pumped out.

CARBURETOR (USA & Canada)

CARBURETOR CIRCUIT

Fig. 6-3



1. Fuel Inlet Tube
2. Needle Valve
3. Float
4. Power Piston
5. Solenoid Valve
6. Primary Main Nozzle
7. Choke Valve
8. Secondary Main Nozzle
9. Air Valve
10. Metering Needle
11. Primary Main Jet
12. Power Valve
13. Slow Jet
14. Primary Throttle Valve
15. Secondary Throttle Valve
16. Secondary Main Jet
17. Acceleration Pump
18. Idle Mixture Adjusting Screw
19. Steel Plug (except Canada RN 4x4)
20. Thermostatic Valve
21. AAP

DISASSEMBLY

Air Horn

Disassemble the parts in the numerical order shown in the figure.

Fig. 6-4

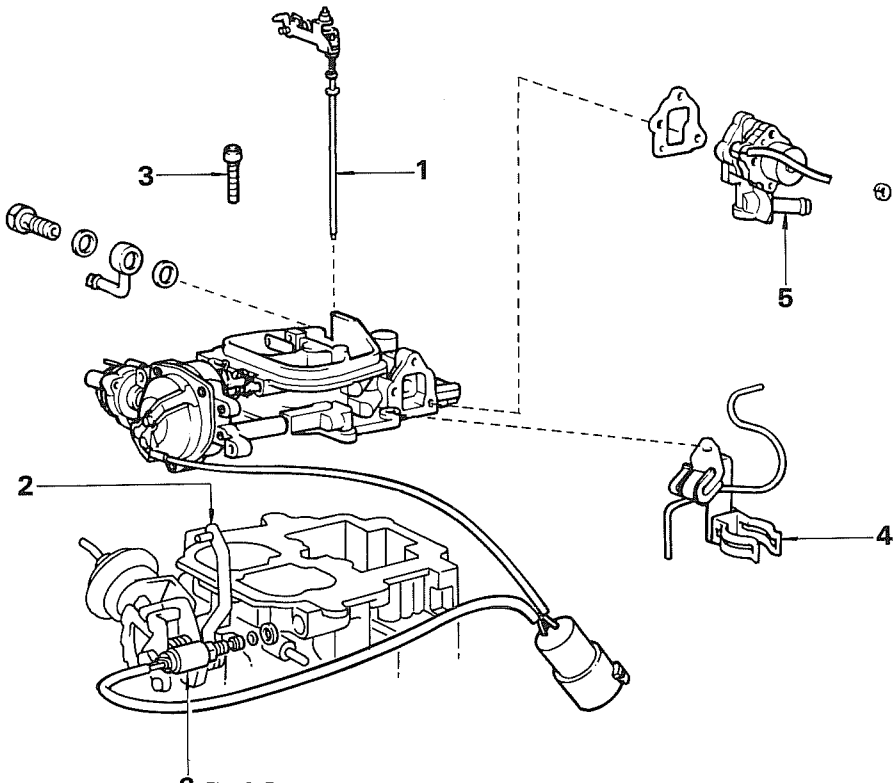
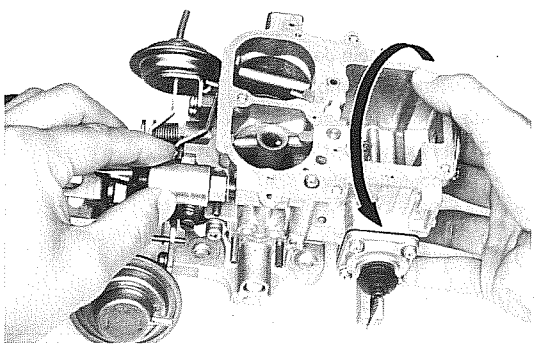


Fig. 6-5

1. Metering Needle
2. Fast Idle Link
3. Air Horn Screw
4. VCV Support (except Canada RN 4x4)
5. Outer Vent Control Valve (except Canada RN 4x4)
6. Solenoid Valve

Fig. 6-5



Loosen the solenoid valve and remove it from the body by rotating the body counterclockwise.

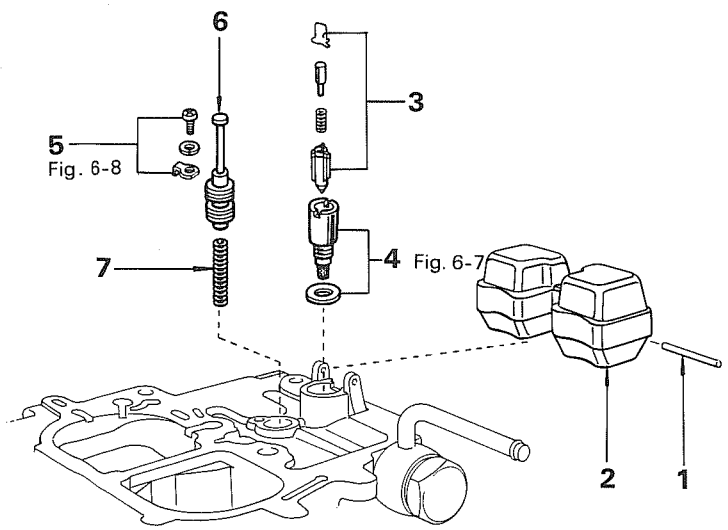
– Note –

Be careful not to bend or distort the lead wires.

Float

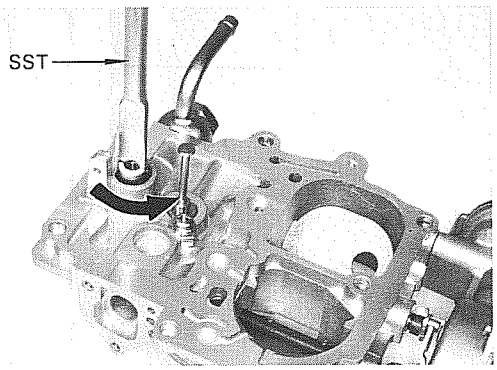
Disassemble the parts in the numerical order shown in the figure.

Fig. 6-6



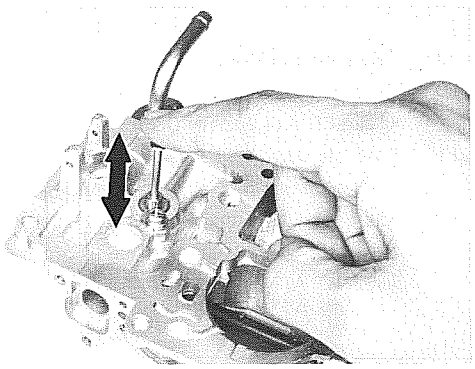
1. Pivot Pin
2. Float
3. Needle Valve
4. Needle Valve Seat
5. Power Piston Retainer
6. Power Piston
7. Spring

Fig. 6-7



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

Fig. 6-8

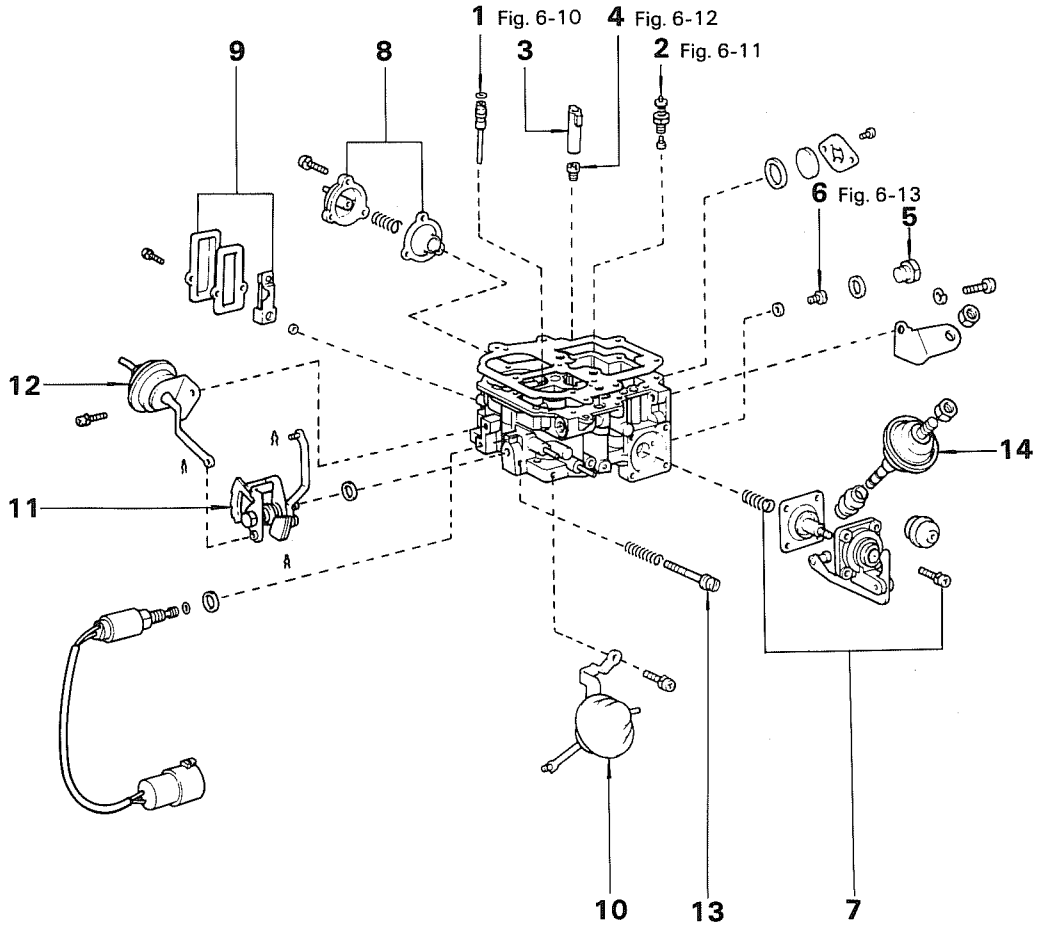


Check the power piston for smooth movement.

Body

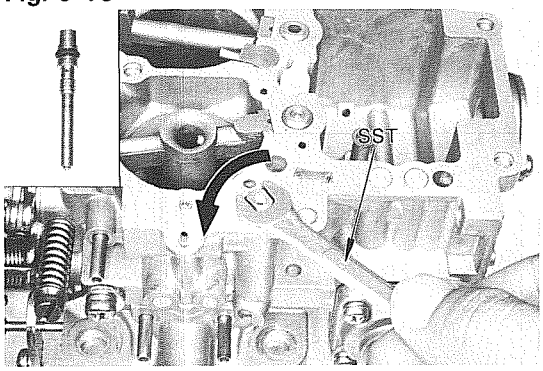
Disassemble the parts in the numerical order shown in the figure.

Fig. 6-9



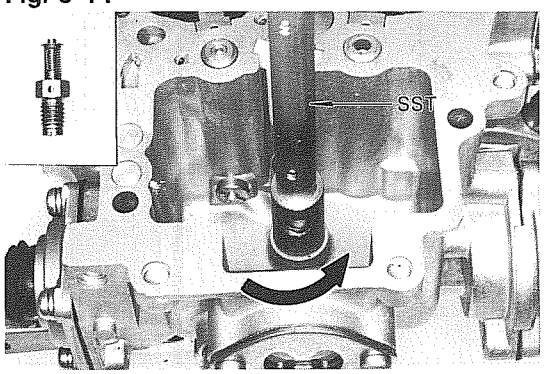
1. Slow Jet
2. Power Valve with Jet
3. Metering Needle Guide
4. Secondary Main Jet
5. Plug
6. Primary Main Jet
7. Acceleration Pump
8. AAP
9. Thermostatic Valve
10. Throttle Positioner (Calif. RN 4x4 and RN C&C)
11. Fast Idle Cam
12. Choke Opener
13. Idle Speed Adjusting Screw
14. Dash Pot (USA RT A/T and USA RA A/T)

Fig. 6-10



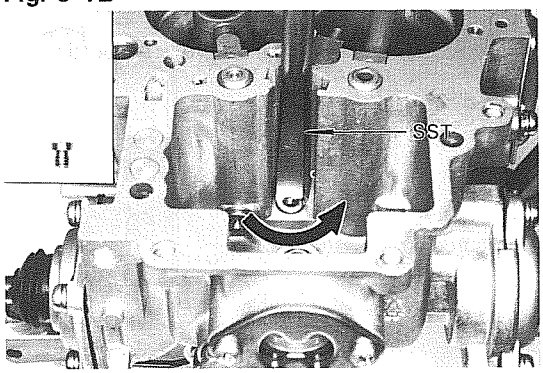
Remove the slow jet with SST.
SST [09922-00010]

Fig. 6-11



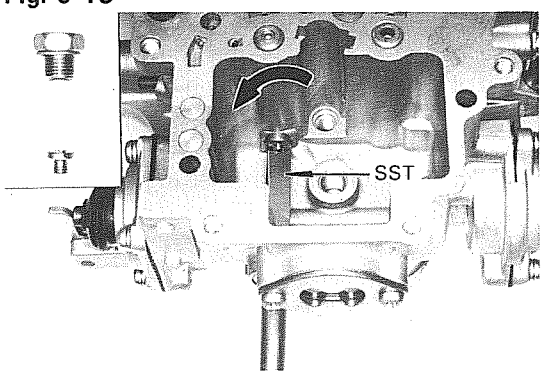
Using SST, remove the power valve together with the jet.
SST [09860-11011]

Fig. 6-12



Remove the metering needle guide and then remove the secondary main jet with SST.
SST [09860-11011]

Fig. 6-13

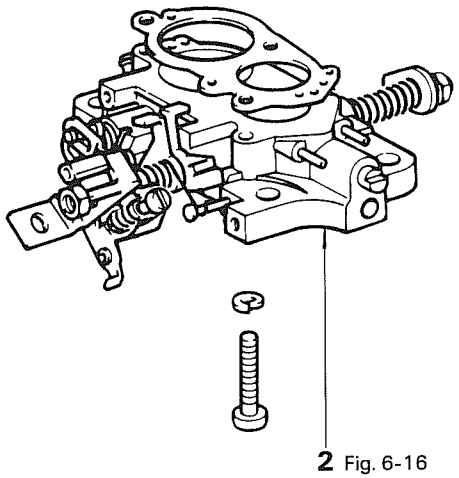


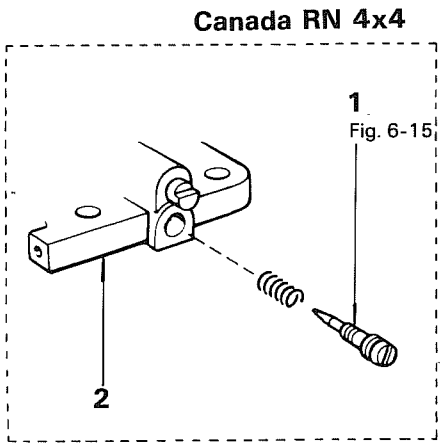
Remove the plug and then remove the primary main jet with SST.
SST [09860-11011]

Flange

Disassemble the parts in the numerical order shown in the figure.

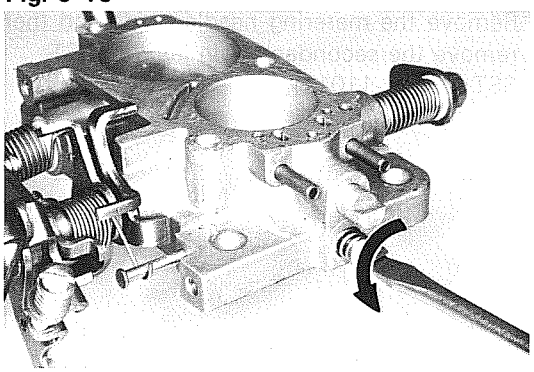
Fig. 6-14





1. Idle Mixture Adjusting Screw (Canada RN 4x4)
2. Carburetor Flange

Fig. 6-15



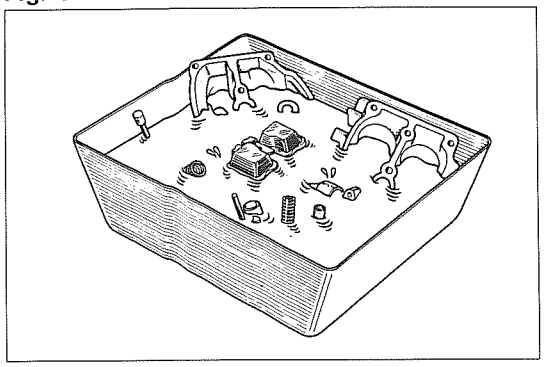
(Canada RN 4x4)
Remove the idle mixture adjusting screw.

Fig. 6-16

SEE
CARBURETOR
ADJUSTMENT SECTION
Fig. 6-145 to 6-157

(Others)
The idle mixture adjusting screw is adjusted and plugged with a steel plug by the manufacturer.
If necessary, remove the steel plug and adjust the idle mixture speed referring to the CARBURETOR ADJUSTMENT section.

Fig. 6-17

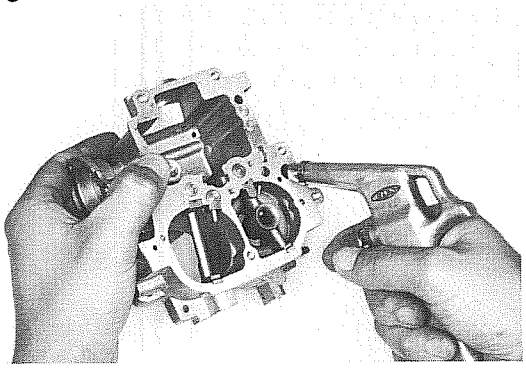


INSPECTION

– Precaution –

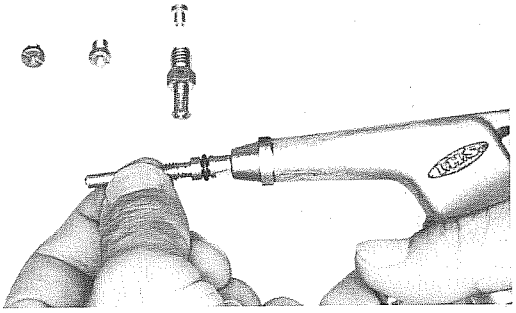
1. **Before inspection, wash all parts thoroughly with gasoline.**

Fig. 6-18



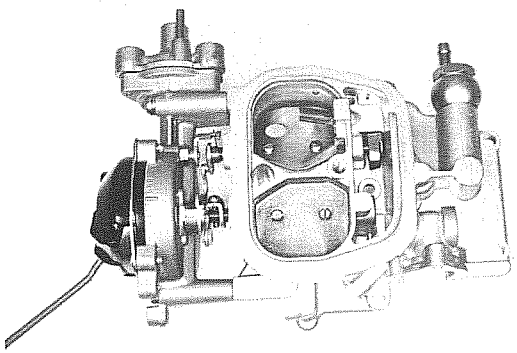
2. **Using compressed air, blow all dirt and other foreign matter from the jets and similar parts, and from the fuel passages and apertures in the body.**

Fig. 6-19



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

Fig. 6-20

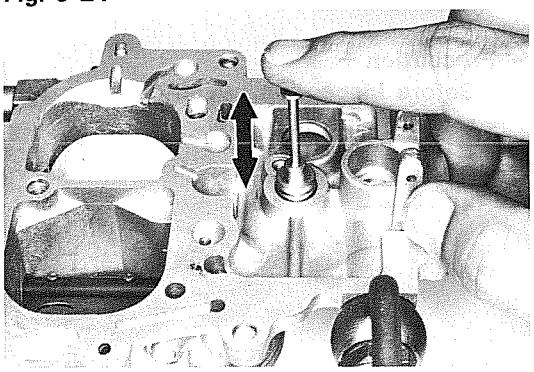


Inspect the following parts and replace any part damaged.

Air Horn Parts

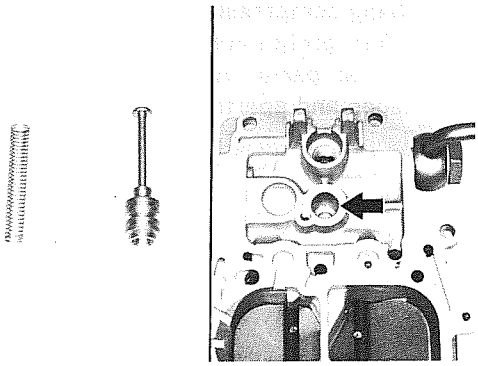
1. Air horn: Check for cracks, damages and excessive deformation of the air valve and choke valve.

Fig. 6-21



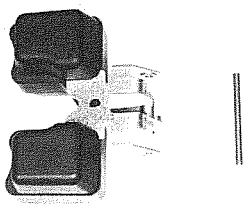
2. Insure that the power piston moves smoothly in the air horn bore.

Fig. 6-22



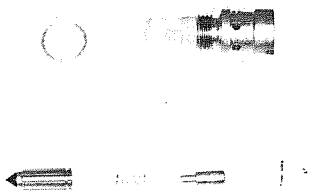
3. Power piston: Check for damage.
Spring: Check for deformation or rust.
Power piston bore: Check for wear or damage.

Fig. 6-23



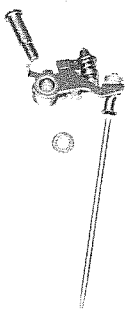
4. Float and pivot pin: Check for wear or breaks.

Fig. 6-24



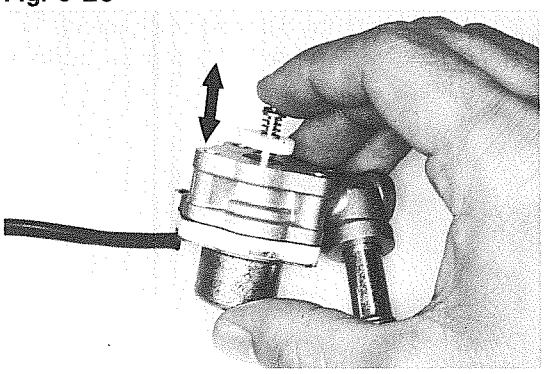
5. Strainer: Check for rust or breaks.
6. Needle valve surface.
7. Needle valve seat.

Fig. 6-25



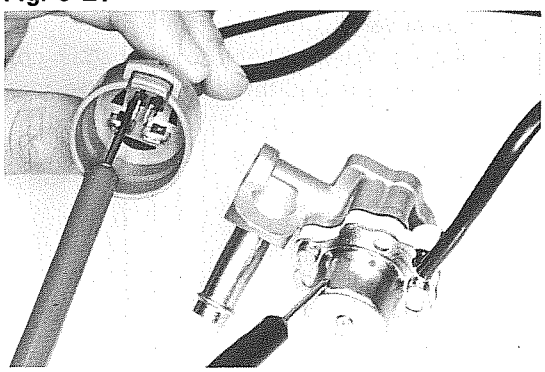
8. Metering needle: Check for bending or damage at the tapered tip.

Fig. 6-26



9. Outer vent control valve (except Canada RN 4x4): Check the valve and valve seats for damage and make sure that the valve rod moves smoothly.

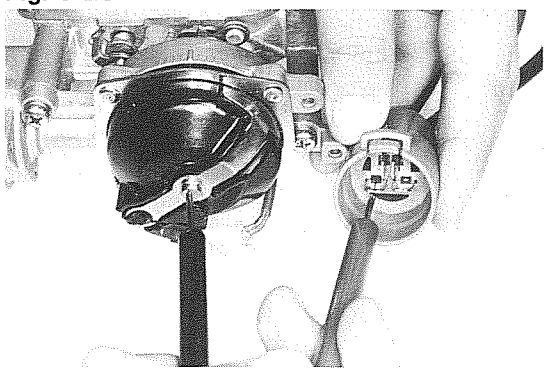
Fig. 6-27



Using an ohmmeter, measure the resistance between the terminal and solenoid body.

Resistance: 63 – 73 Ω at 20°C (68°F)

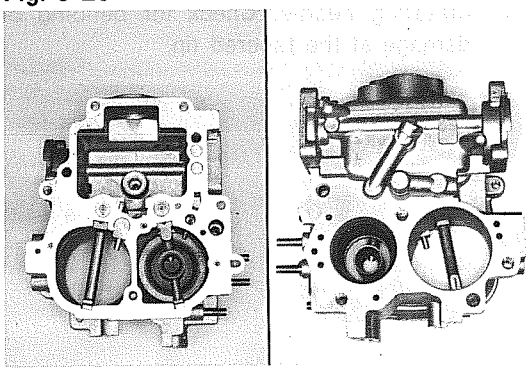
Fig. 6-28



10. Choke coil: Using an ohmmeter, measure the resistance between the terminal and coil housing.

Resistance: 16 – 20 Ω at 20°C (68°F)

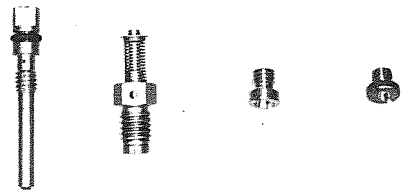
Fig. 6-29



Body Parts

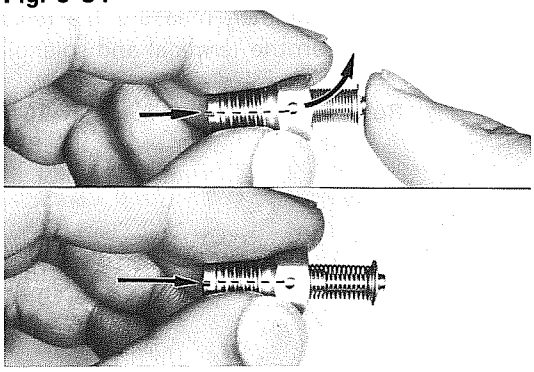
1. Body: Check for cracks, scored mounting surfaces and damaged threads.

Fig. 6-30



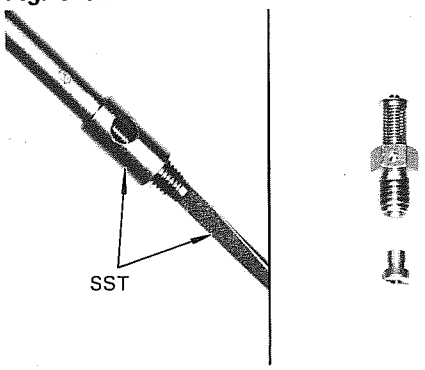
2. Jets: Check for damage or clogging. Check for damaged contact surface, threads and screwdriver slots.

Fig. 6-31



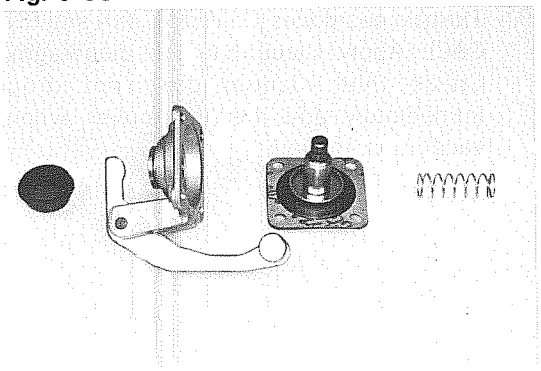
3. Power valve: Check for faulty opening and closing action. Check for damaged contact surface and threads.

Fig. 6-32



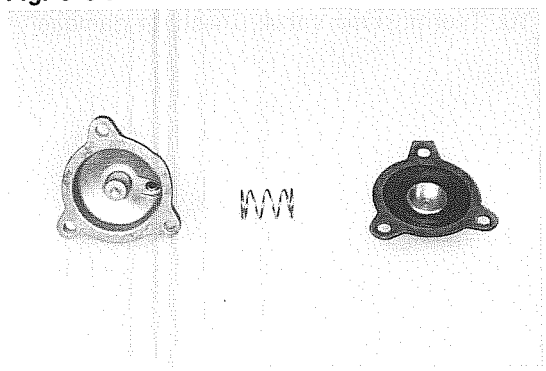
4. Remove the jet with SST.
   SST [09860-11011]

Fig. 6-33



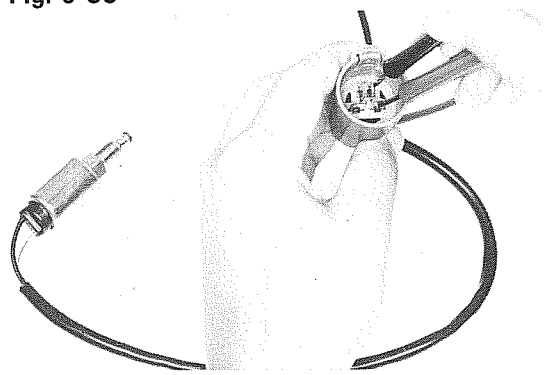
5. Acceleration pump: Check the diaphragm, housing and spring for wear or damage.

Fig. 6-34



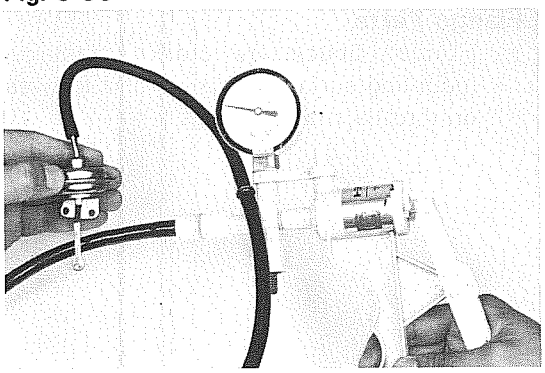
6. AAP: Check the diaphragm, housing and spring for wear or damage.

Fig. 6-35



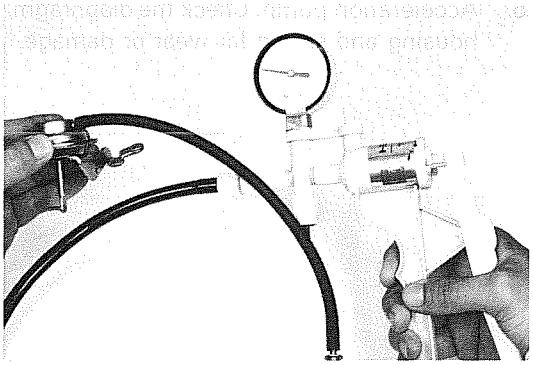
7. Solenoid valve: Connect two terminals and the battery terminals as shown in the figure.
Check that you can feel a click from the solenoid valve when the battery is connected and disconnected.

Fig. 6-36



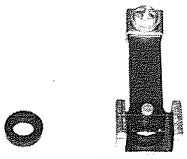
8. Choke opener: Apply vacuum to the diaphragm.
Check that vacuum does not drop immediately and the link moves when vacuum is applied.

Fig. 6-37



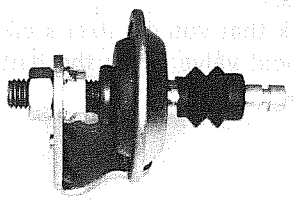
9. Throttle positioner (Calif. RN 4x4 and RN C&C): Apply vacuum to the diaphragm. Check that vacuum does not drop immediately and the link moves when vacuum is applied.

Fig. 6-38



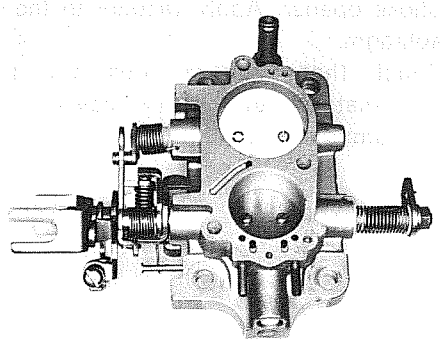
10. Thermostatic valve: Check for damage.

Fig. 6-39



11. Dash pot (USA RT A/T and USA RA A/T): Check the body and boot for cracks or damage.

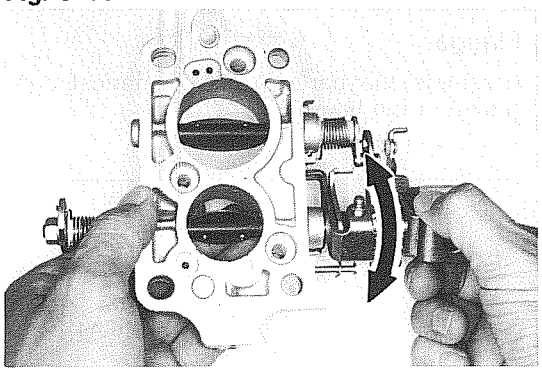
Fig. 6-40



Flange Parts

1. Flange: Check for cracks, damaged mounting surfaces, threads and for wear on throttle shaft bearings.

Fig. 6-41



2. Throttle valves: Check for worn or deformed valves and for wear, bending, twisting of shafts or faulty movement inside the housing shaft.

Fig. 6-42

3. Idle mixture adjusting screw (Canada RN 4x4): Check for damaged tapered tip or threads.

– Note –

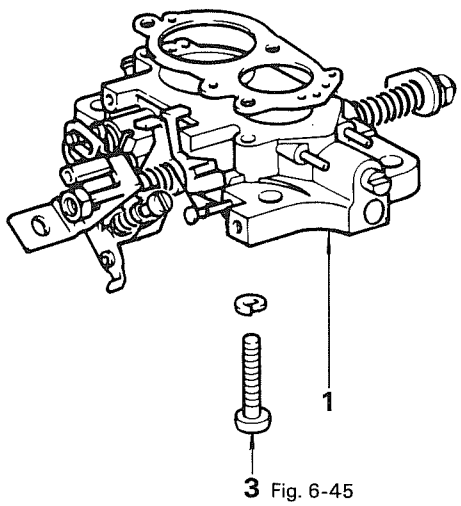
For other vehicles, the idle mixture adjusting screw is adjusted and plugged with a steel plug by the manufacturer.

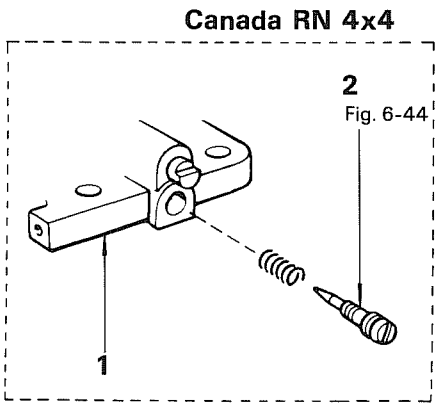
ASSEMBLY

Flange

Assemble the parts in the numerical order shown in the figure.

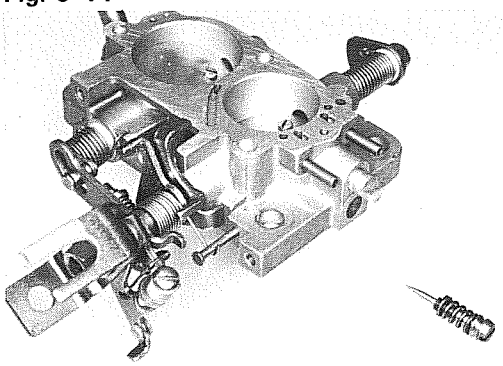
Fig. 6-43





1. Carburetor Flange
2. Idle Mixture Adjusting Screw (Canada RN 4x4)
3. Flange Screw

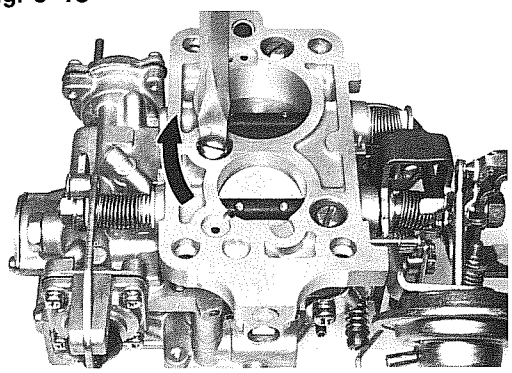
Fig. 6-44



Temporarily install the idle mixture adjusting screw (Canada RN 4x4).

— Note —
Be careful not to damage the screw tip.

Fig. 6-45



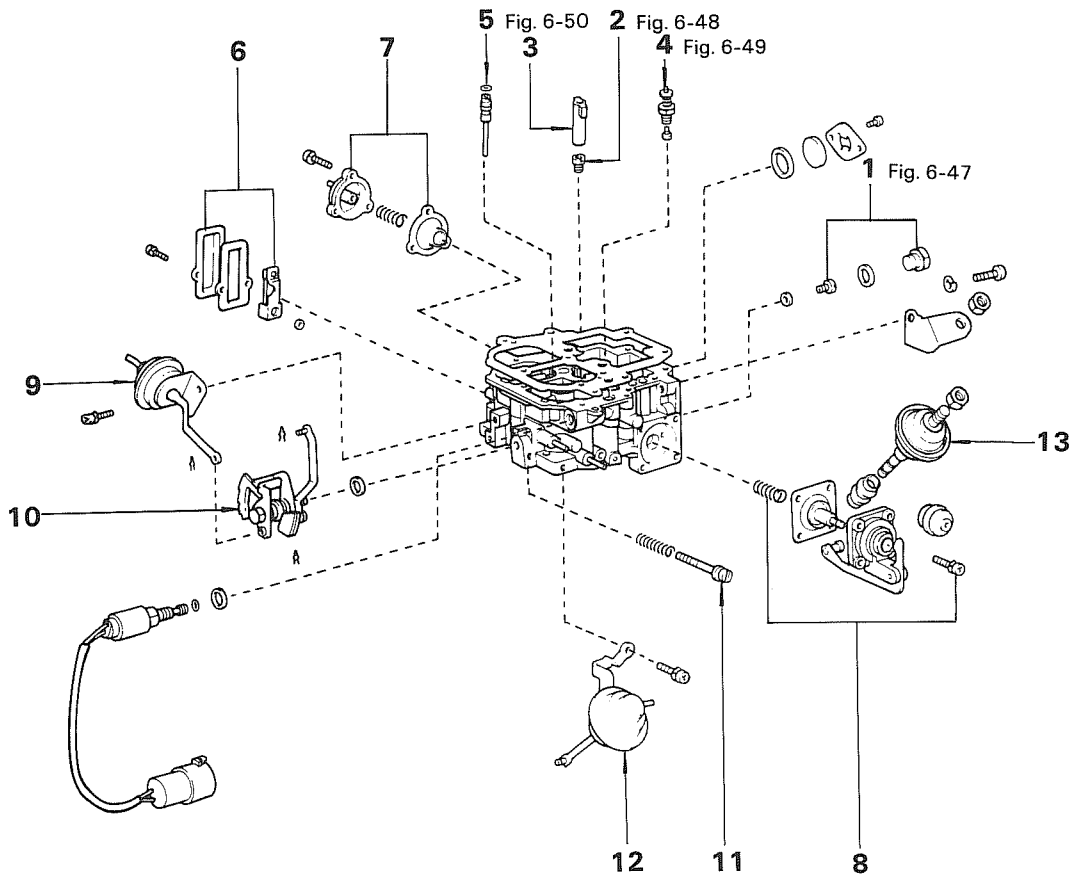
First finger tighten all bolts and then tighten them down.

— Note —
Use a new gasket.

Body

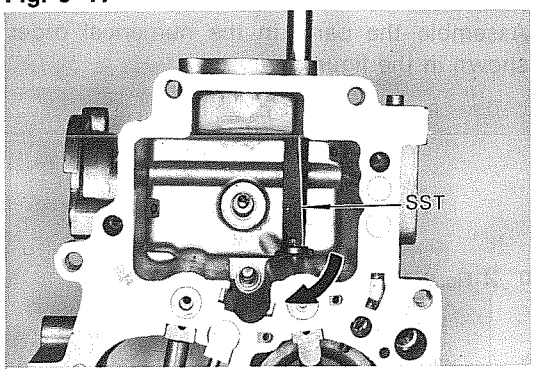
Assemble the parts in the numerical order shown in the figure.

Fig. 6-46



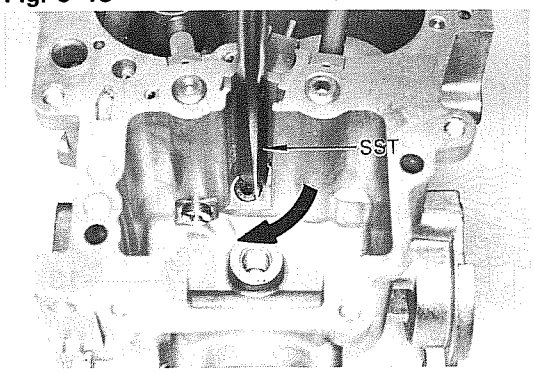
1. Primary Main Jet & Plug
2. Secondary Main Jet
3. Metering Needle Guide
4. Power Valve with Jet
5. Slow Jet
6. Thermostatic Valve
7. AAP
8. Acceleration Pump
9. Choke Opener
10. Fast Idle Cam
11. Idle Speed Adjusting Screw
12. Throttle Positioner (Calif. RN 4x4 and RN C&C)
13. Dash Pot (USA RT A/T and USA RA A/T)

Fig. 6-47



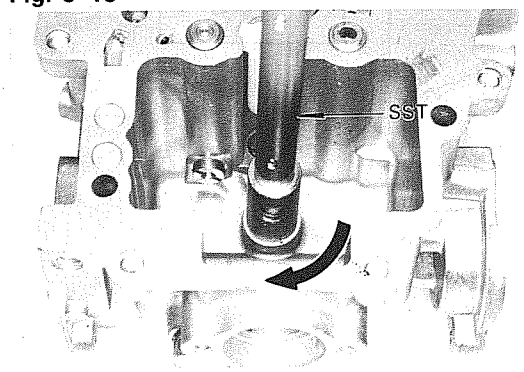
Install the primary main jet and tighten it with SST.
SST [09860-11011]

Fig. 6-48



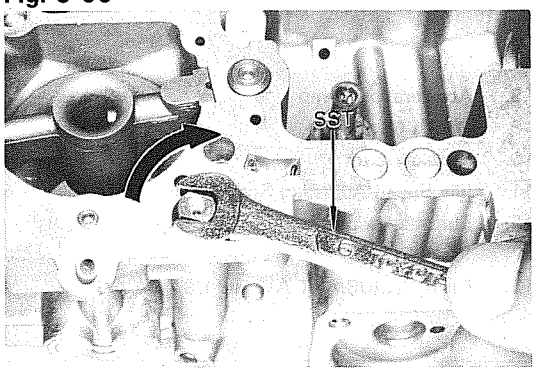
Install the secondary main jet and tighten it with SST.
SST [09860-11011]

Fig. 6-49



Install the power valve with jet and tighten it with SST.
SST [09860-11011]

Fig. 6-50

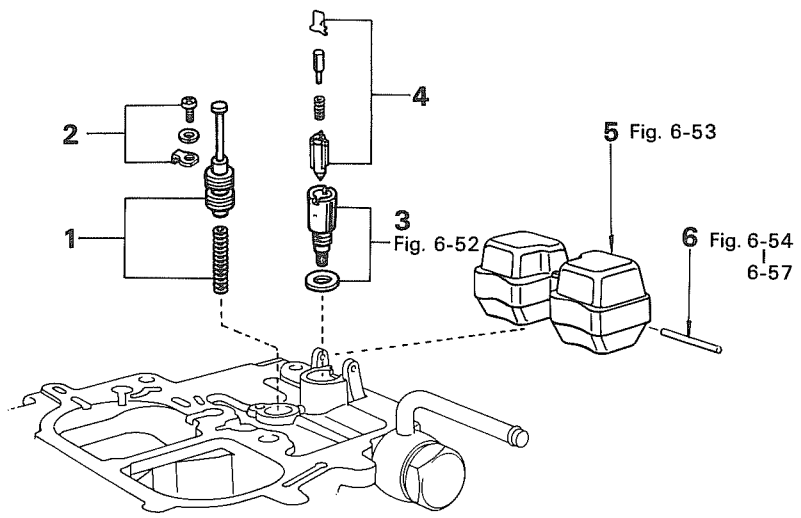


Install the slow jet and tighten it with SST.
SST [09922-00010]

Float

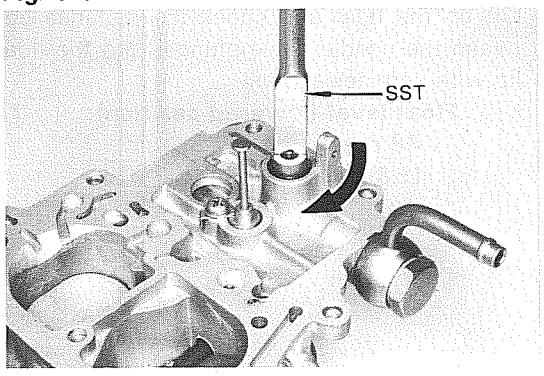
Assemble the parts in the numerical order shown in the figure.

Fig. 6-51



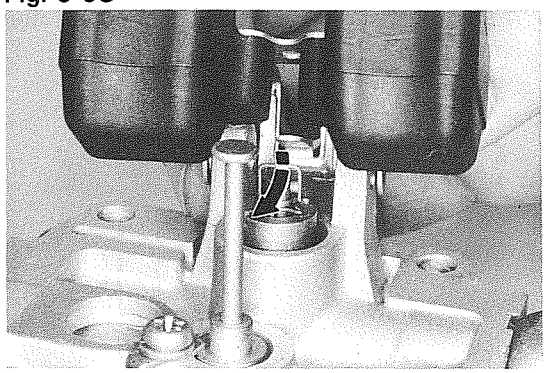
1. Power Piston & Spring
2. Power Piston Retainer
3. Needle Valve Seat
4. Needle Valve
5. Float
6. Pivot Pin

Fig. 6-52



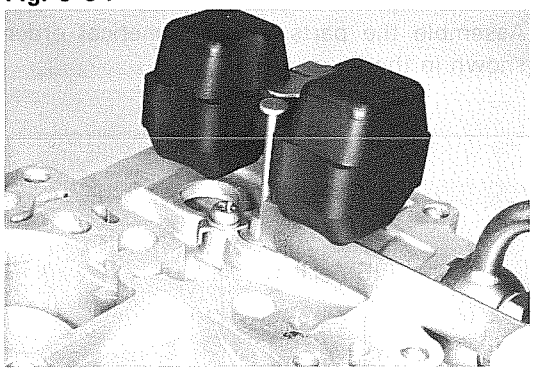
Install the needle valve seat and tighten it with SST.
SST [09860-11011]

Fig. 6-53



Insert the lip of the float under the wire of the needle valve.

Fig. 6-54

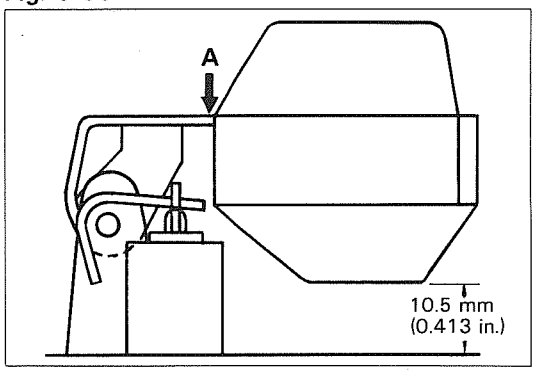


Adjust the float level.
Allow the float to hang down by its own weight.
Check the clearance between the float top and air horn with SST.
SST [09240-00014]

Float level: 10.5 mm (0.413 in.)

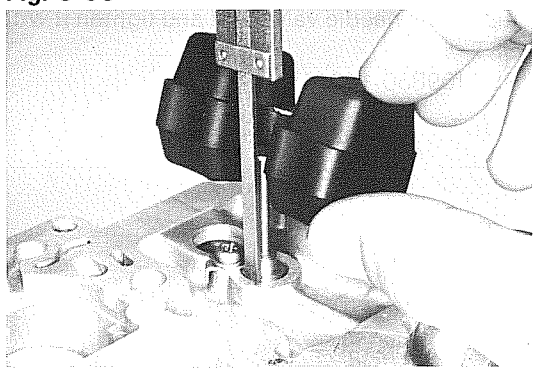
— Note —
Measure the clearance without a gasket on the air horn.

Fig. 6-55



Adjust by bending the part of the float indicated by A in the figure.

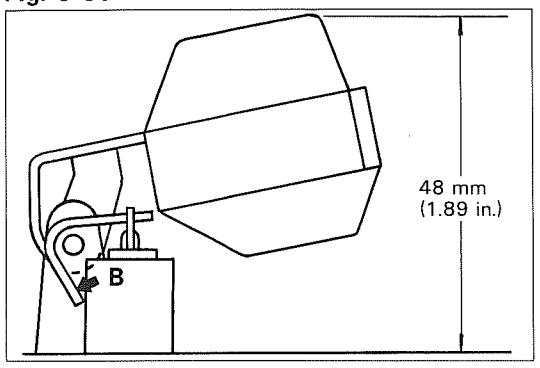
Fig. 6-56



Lift up the float and check the distance between the needle valve plunger and the float lip with vernier calipers.

Float level (lowered position):
48 mm
(1.89 in.)

Fig. 6-57

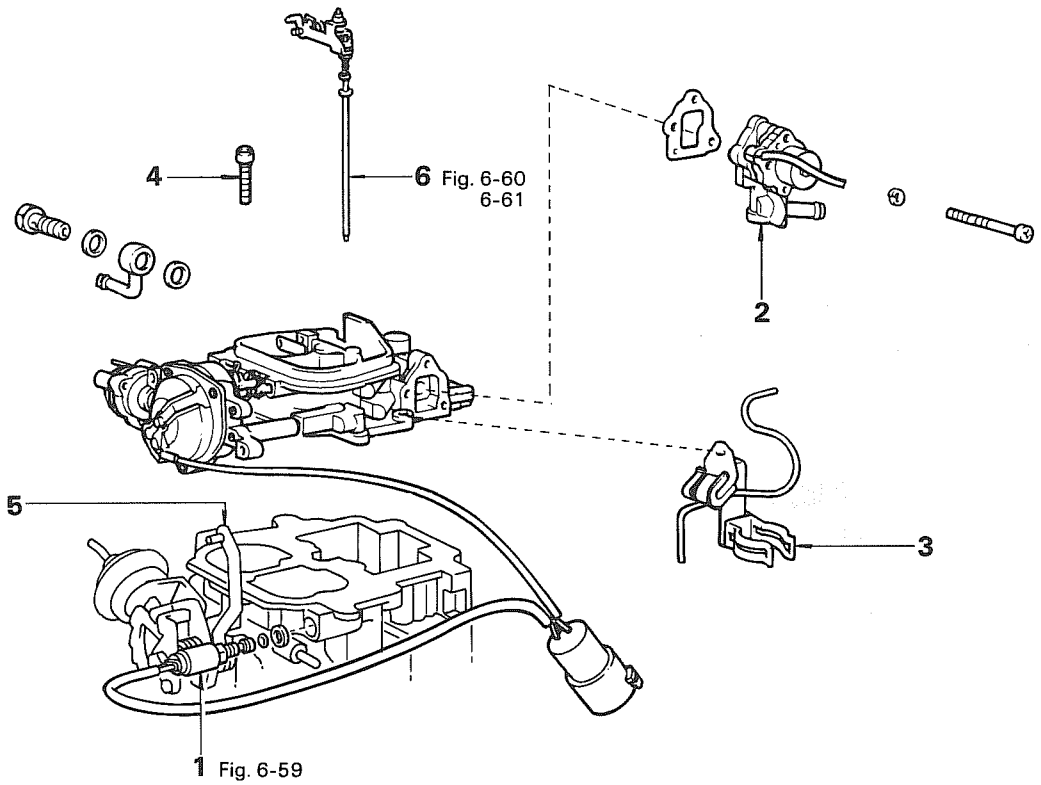


Adjust by bending the part of the float indicated by B in the figure.

Air Horn

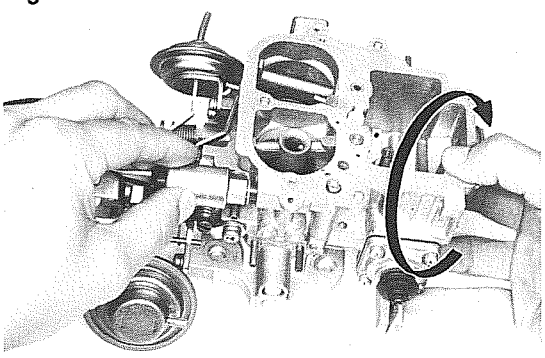
Assemble the parts in the numeric al order shown in the figure.

Fig. 6-58



1. Solenoid Valve
2. Outer Vent Control Valve (except Canada RN 4x4)
3. VCV Support (except Canada RN 4x4)
4. Air Horn Screw
5. Fast Idle Link
6. Metering Needle

Fig. 6-59

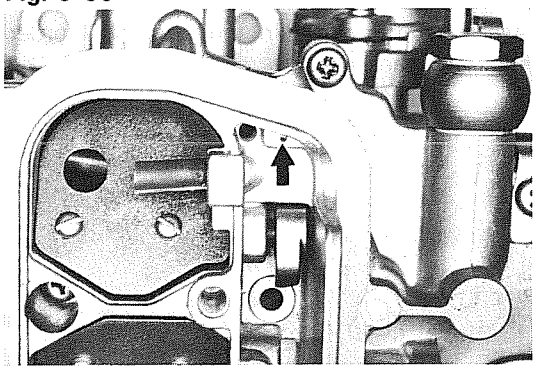


Install the solenoid valve into the carburetor body by rotating the carburetor body clockwise.

– Note –

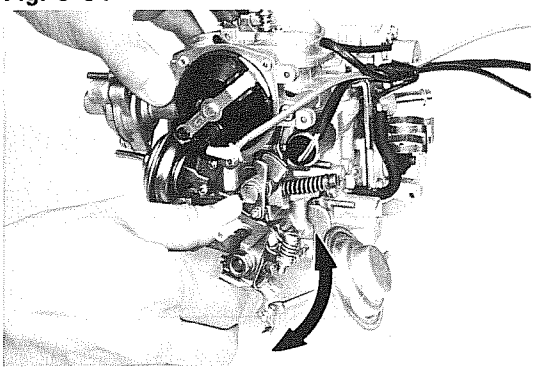
Be careful not to bend or distort the lead wires.

Fig. 6-60



Hook the metering needle spring end into the hole indicated in the figure.
Then install the metering needle and two washers.

Fig. 6-61

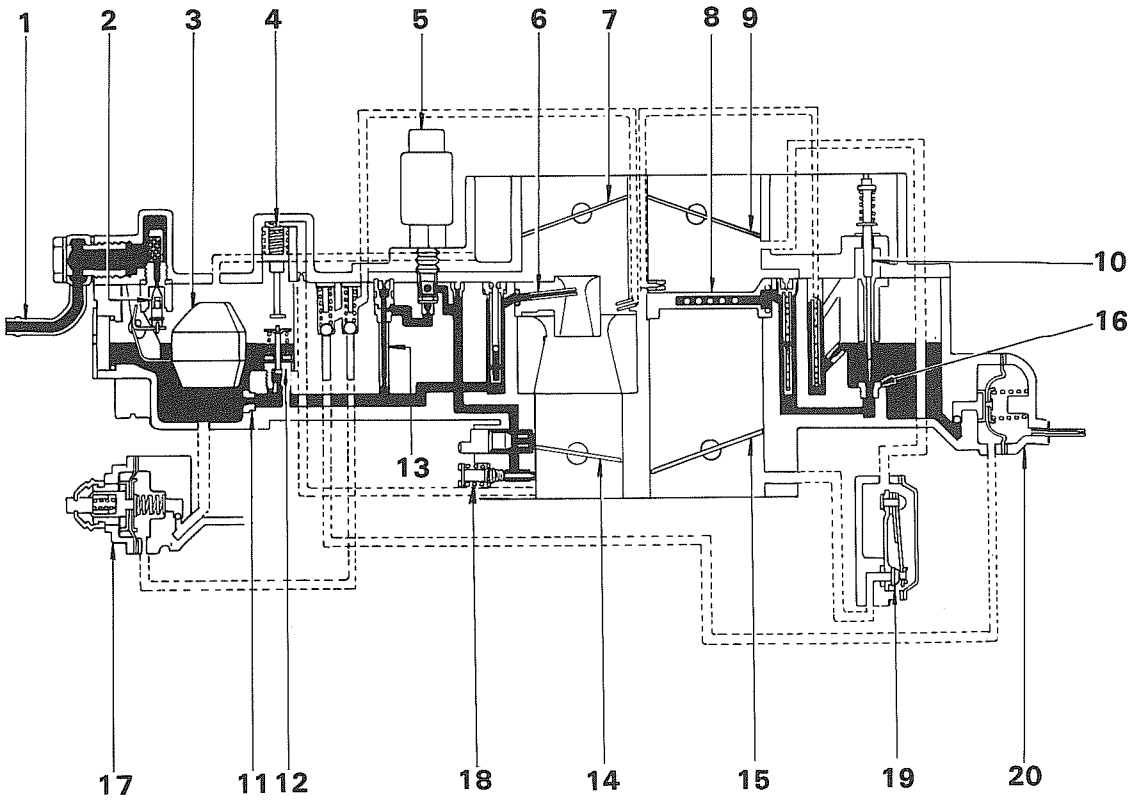


After assembly, make sure that each link moves smoothly.

CARBURETOR (General Countries)

CARBURETOR CIRCUIT

Fig. 6-62



1. Fuel Inlet Tube
2. Needle Valve
3. Float
4. Power Piston
5. Solenoid Valve
6. Primary Main Nozzle
7. Choke Valve
8. Secondary Main Nozzle
9. Air Valve
10. Metering Needle
11. Primary Main Jet
12. Power Valve
13. Slow Jet
14. Primary Throttle Valve
15. Secondary Throttle Valve
16. Secondary Main Jet
17. Acceleration Pump
18. Idle Mixture Adjusting Screw
19. Thermostatic Valve
20. AAP

DISASSEMBLY

Air Horn

Disassemble the parts in the numerical order shown in the figure.

Fig. 6-63

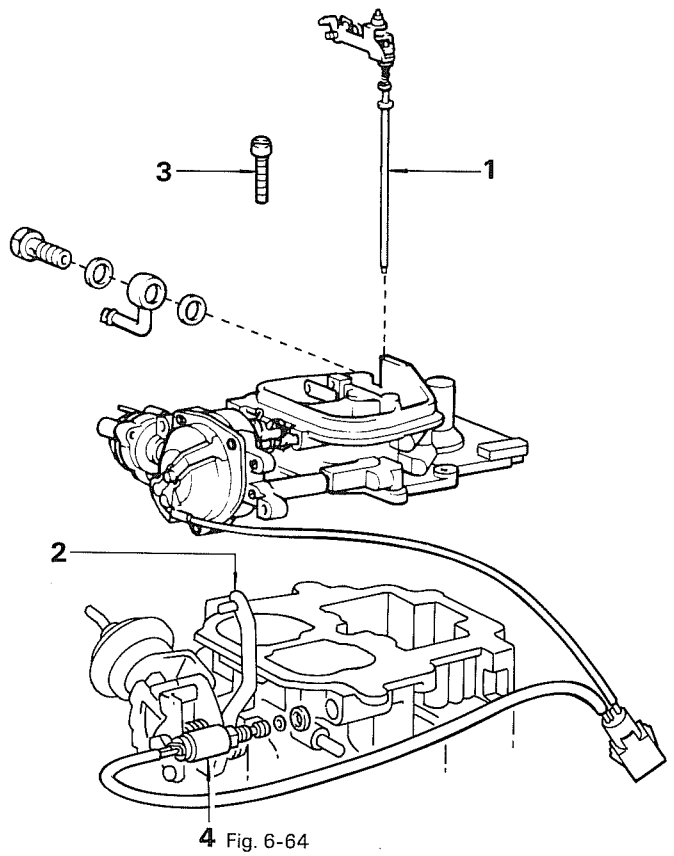
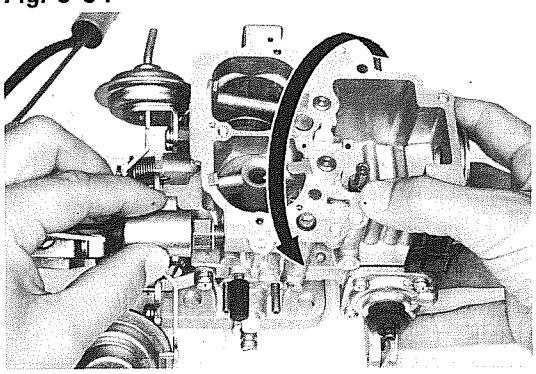


Fig. 6-64

1. Metering Needle
2. Fast Idle Link
3. Air Horn Screw
4. Solenoid Valve

Fig. 6-64



Loosen the solenoid valve and remove it from the body by rotating the body counterclockwise.

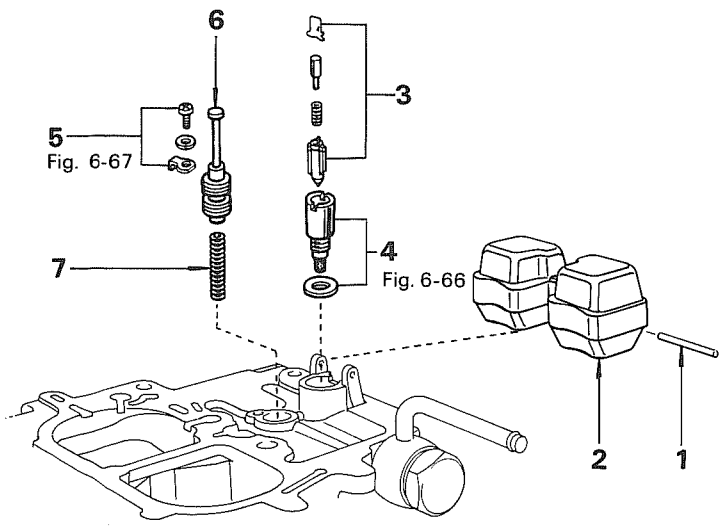
– Note –

Be careful not to bend or distort the lead wires.

Float

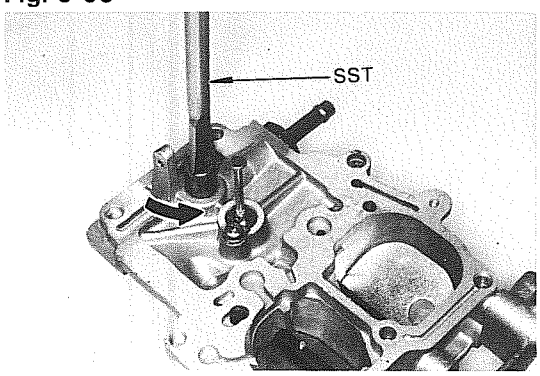
Disassemble the parts in the numerical order shown in the figure.

Fig. 6-65



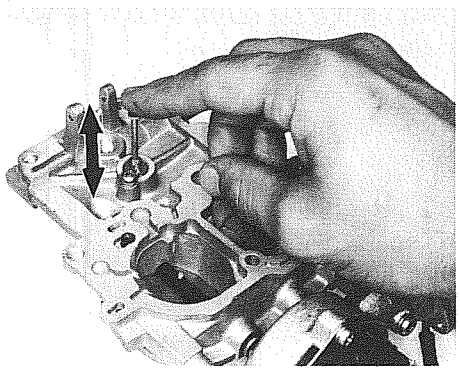
1. Pivot Pin
2. Float
3. Needle Valve
4. Needle Valve Seat
5. Power Piston Retainer
6. Power Piston
7. Spring

Fig. 6-66



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

Fig. 6-67

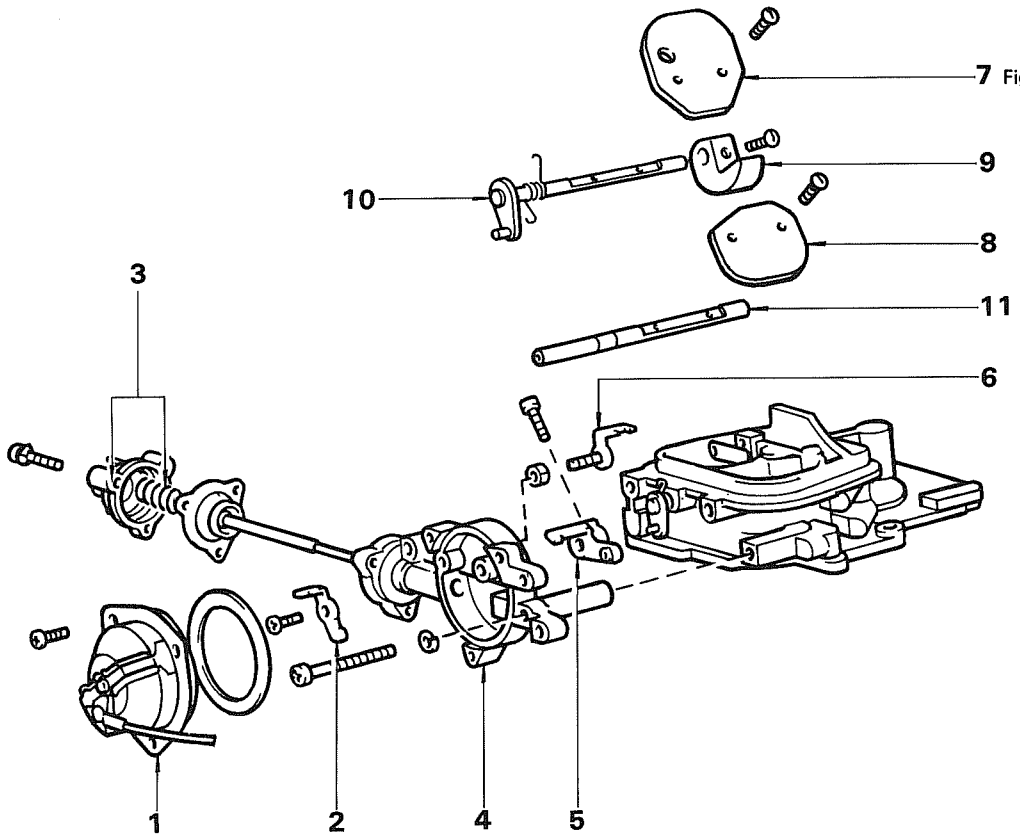


Check the power piston for smooth movement.

Choke System

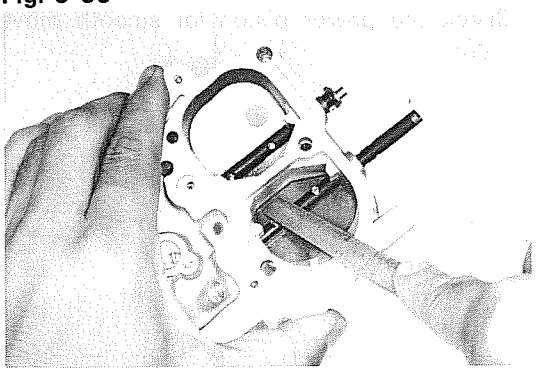
Disassemble the parts in the numerical order shown in the figure.

Fig. 6-68



1. Coil Housing
2. Choke Lever
3. Choke Breaker Cover & Spring
4. Thermostat Case with Diaphragm
5. Connecting Lever
6. Relief Lever
7. Air Valve
8. Choke Valve
9. Metering Needle Cam
10. Air Valve Shaft
11. Choke Valve Shaft

Fig. 6-69

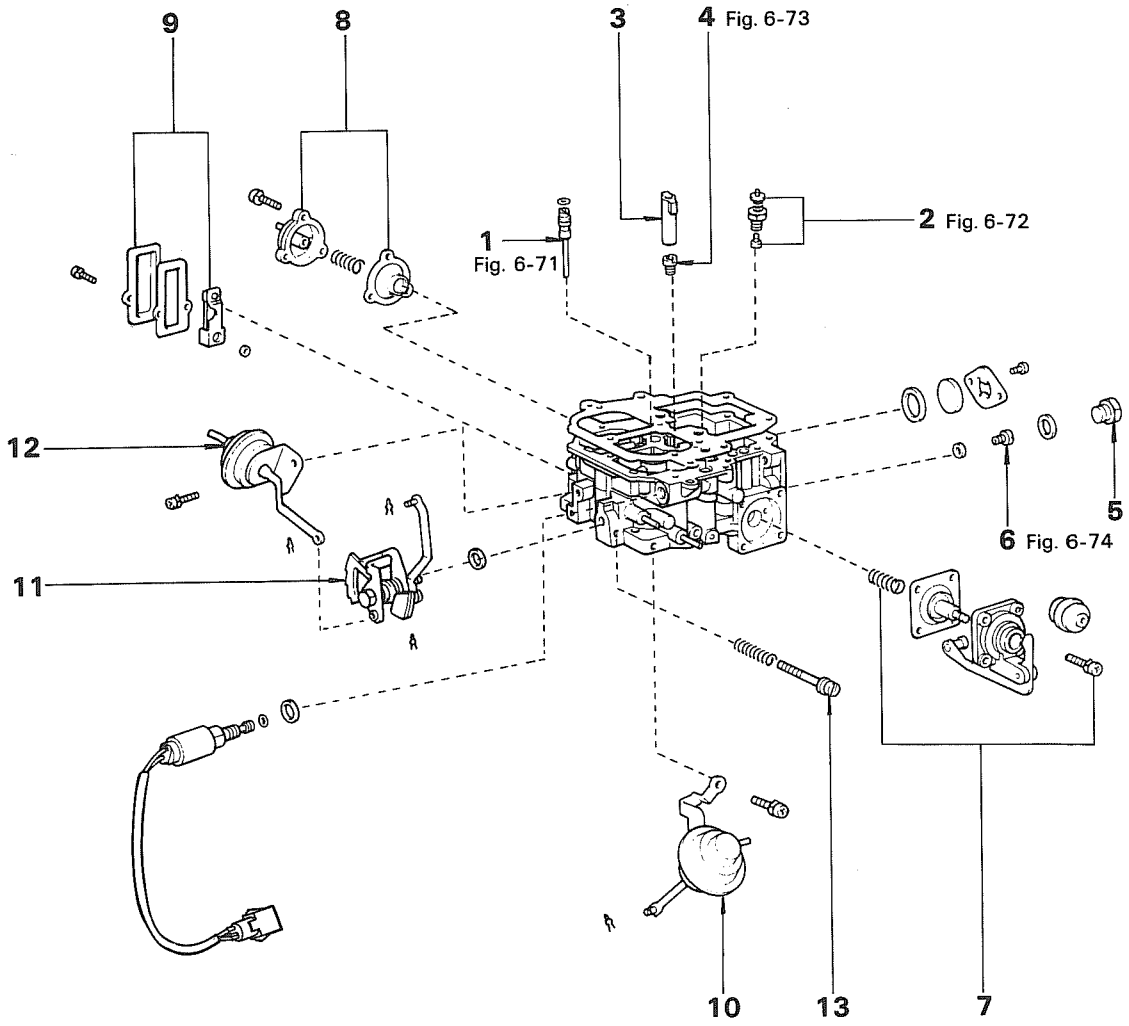


File off the set screw ends to remove the air valve and choke valve.

Body

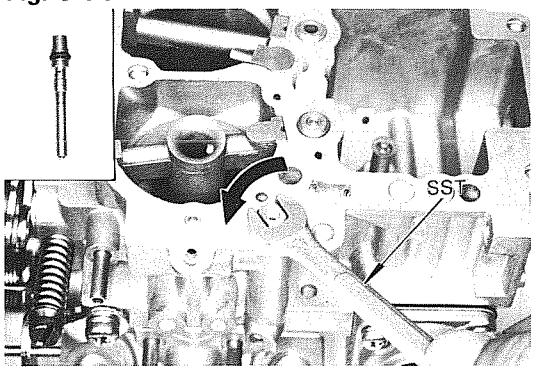
Disassemble the parts in the numerical order shown in the figure.

Fig. 6-70



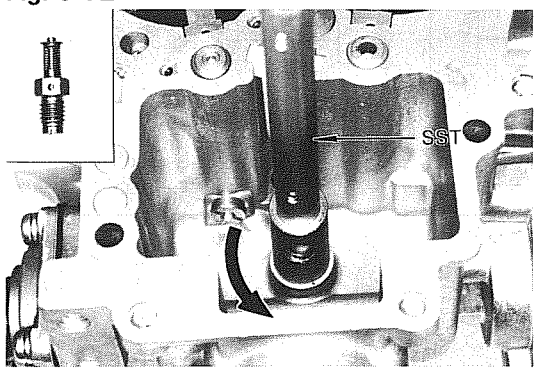
1. Slow Jet
2. Power Valve with Jet
3. Metering Needle Guide
4. Secondary Main Jet
5. Plug
6. Primary Main Jet
7. Acceleration Pump
8. AAP (except General RX)
9. Thermostatic Valve
10. Throttle Positioner (Australia RB and RX except ECE and Sweden A/T)
11. Fast Idle Cam
12. FICB (RX ECE and Sweden)
13. Idle Speed Adjusting Screw

Fig. 6-71



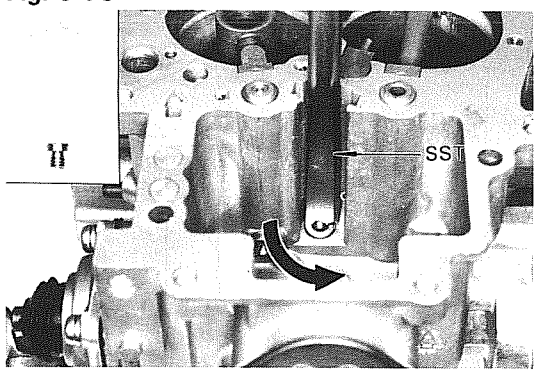
Remove the slow jet with SST.
SST [09922-00010]

Fig. 6-72



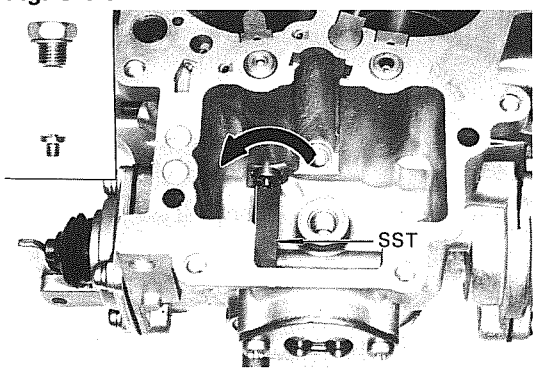
Using SST, remove the power valve together with the jet.
SST [09860-11011]

Fig. 6-73



Remove the metering needle guide and then remove the secondary main jet with SST.
SST [09860-11011]

Fig. 6-74

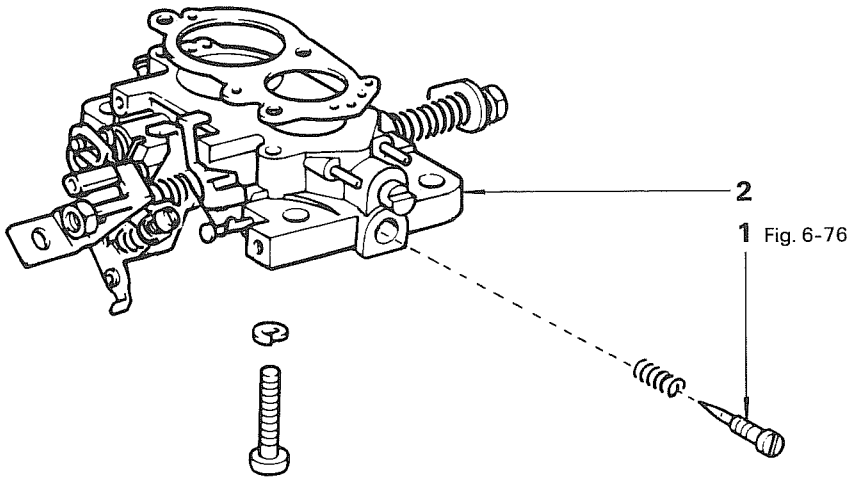


Remove the plug and then remove the primary main jet with SST.
SST [09860-11011]

Flange

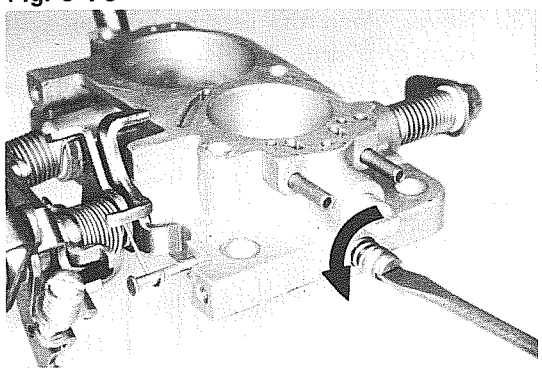
Disassemble the parts in the numerical order shown in the figure.

Fig. 6-75



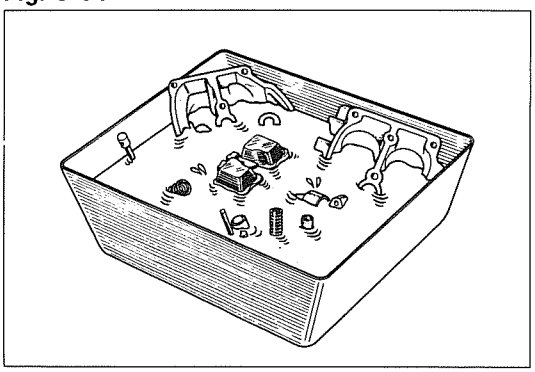
1. Idle Mixture Adjusting Screw
2. Carburetor Flange

Fig. 6-76



Remove the idle mixture adjusting screw.

Fig. 6-77

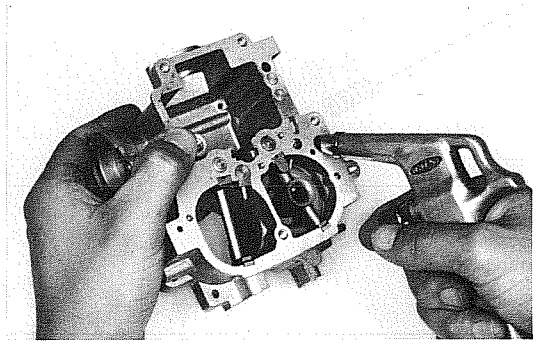


INSPECTION

– Precaution –

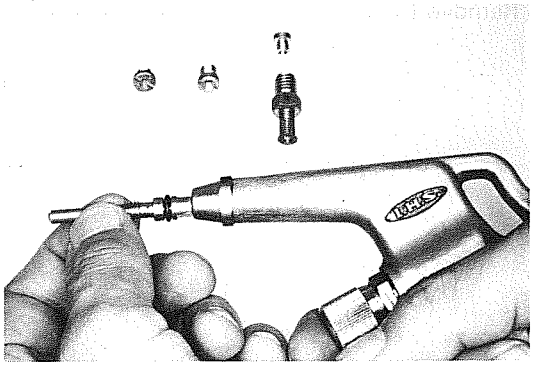
1. **Before inspection, wash all parts thoroughly with gasoline.**

Fig. 6-78



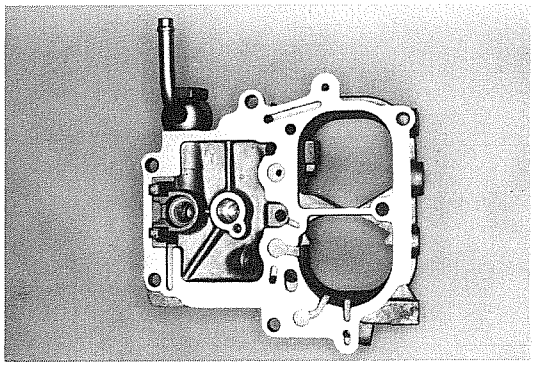
2. **Using compressed air, blow all dirt and other foreign matter from the jets and similar parts, and from the fuel passages and apertures in the body.**

Fig. 6-79



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

Fig. 6-80

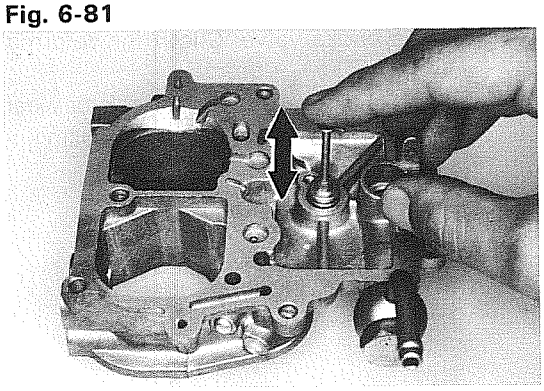


Inspect the following parts and replace any part damaged.

Air Horn Parts

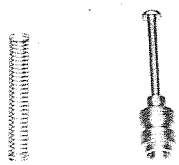
1. Air horn: Check for cracks, damaged threads and excessive wear on the choke and air valve shaft holes.

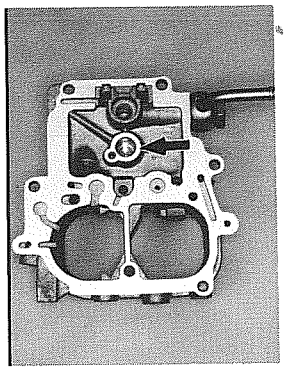
Fig. 6-81



2. Insure that the power piston moves smoothly in the air horn bore.

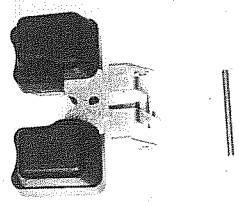
Fig. 6-82





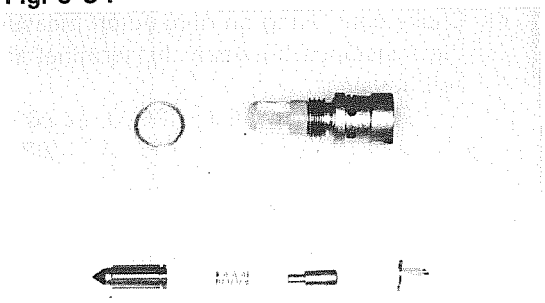
3. Power piston: Check for damage.
Spring: Check for deformation or rust.
Power piston bore: Check for wear or damage.

Fig. 6-83



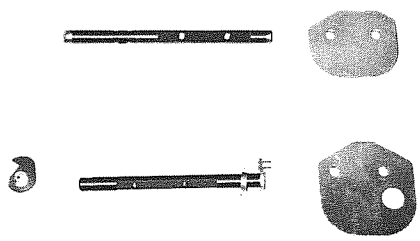
4. Float and pivot pin: Check for wear or breaks.

Fig. 6-84



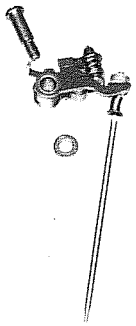
5. Strainer: Check for rust or breaks.
6. Needle valve surface.
7. Needle valve seat.

Fig. 6-85



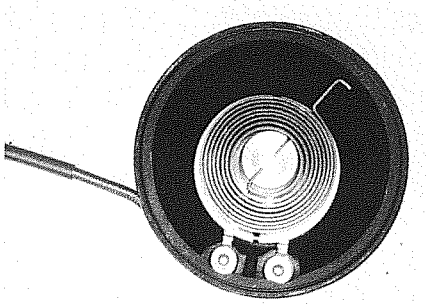
8. Air and choke valve: Check for deformation.
Air and choke valve shaft: Check for wear, bending or improper fit in the housing.

Fig. 6-86



9. Metering needle: Check for bending or damage at the tapered tip.

Fig. 6-87



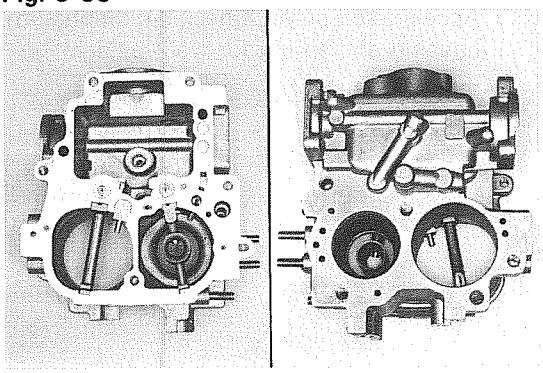
10. Coil housing: Check for cracks, and deformation of thermostatic bi-metal coil.

Fig. 6-88

11. Choke coil: Using an ohmmeter, measure the resistance between the terminal and coil housing.

Resistance: 16 – 20 Ω at 20°C (68°F)

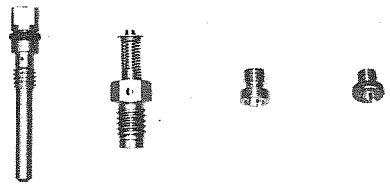
Fig. 6-89



Body Parts

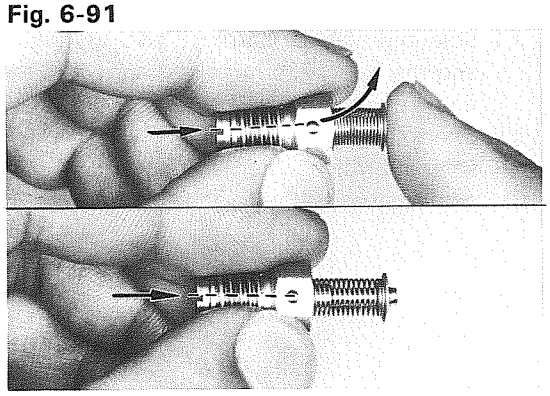
1. Body: Check for cracks, scored mounting surfaces and damaged threads.

Fig. 6-90



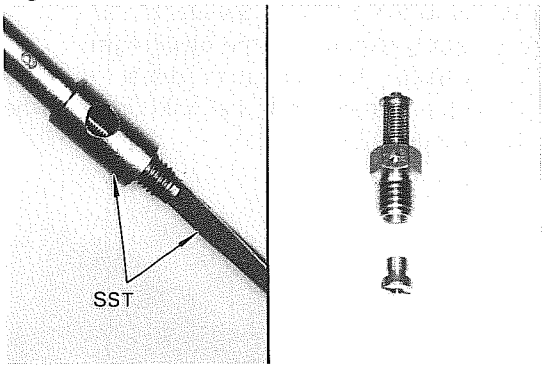
2. Jets: Check for damage or clogging. Check for damaged contact surface, threads and screwdriver slots.

Fig. 6-91



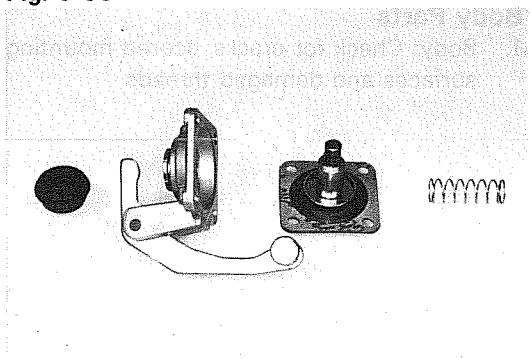
3. Power valve: Check for faulty opening and closing action. Check for damaged contact surface and threads.

Fig. 6-92



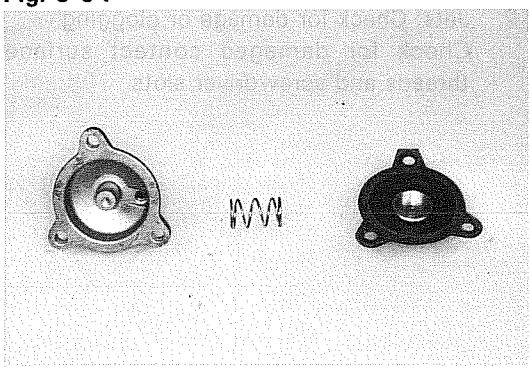
4. Remove the jet with SST.
SST [09860-11011]

Fig. 6-93



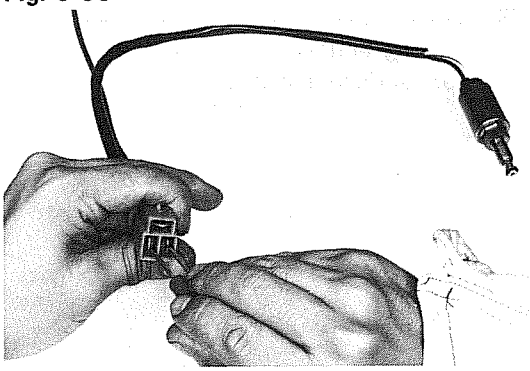
5. Acceleration pump: Check the diaphragm, housing and spring for wear or damage.

Fig. 6-94



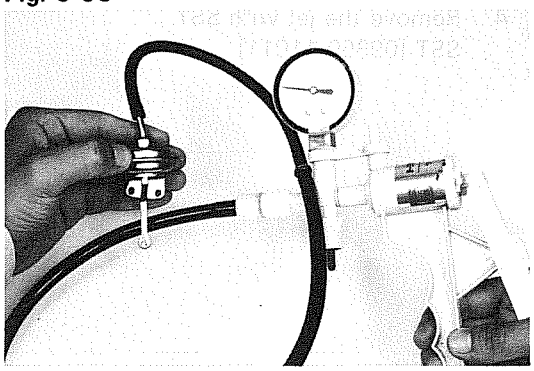
6. AAP (except General RX): Check the diaphragm, housing and spring for wear or damage.

Fig. 6-95



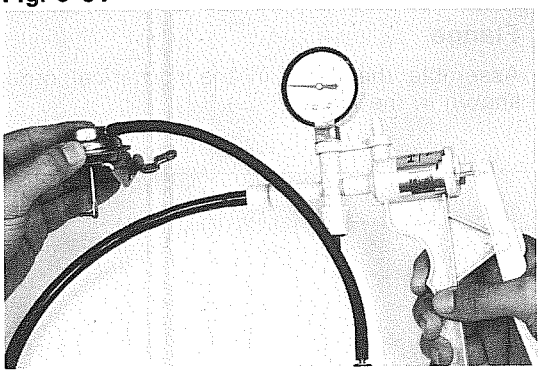
7. Solenoid valve: Connect two terminals and the battery terminals as shown in the figure.
Check that you can feel a click from the solenoid valve when the battery is connected and disconnected.

Fig. 6-96



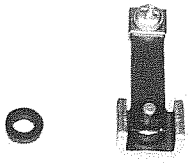
8. FICB (RX ECE and Sweden):
Apply vacuum to the diaphragm.
Check that vacuum does not drop immediately and the link moves when vacuum is applied.

Fig. 6-97



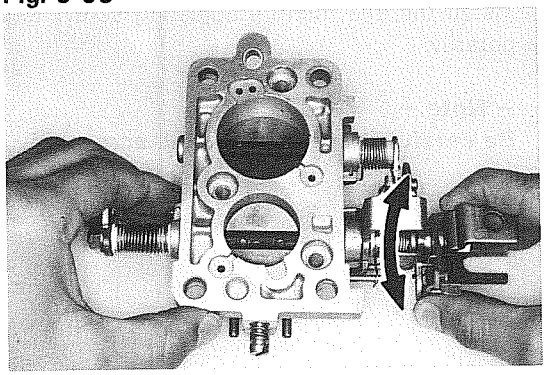
9. Throttle positioner (Australia RB and RX except ECE A/T): Apply vacuum to the diaphragm. Check that vacuum does not drop immediately and that the link moves when vacuum is applied.

Fig. 6-98



10. Thermostatic valve: Check for damage.

Fig. 6-99



Flange Parts

1. Flange: Check for cracks, damaged mounting surfaces, threads and for wear on throttle shaft bearings.
2. Throttle valves: Check for worn or deformed valves and for wear, bending, twisting of shafts or faulty movement inside the housing.

Fig. 6-100

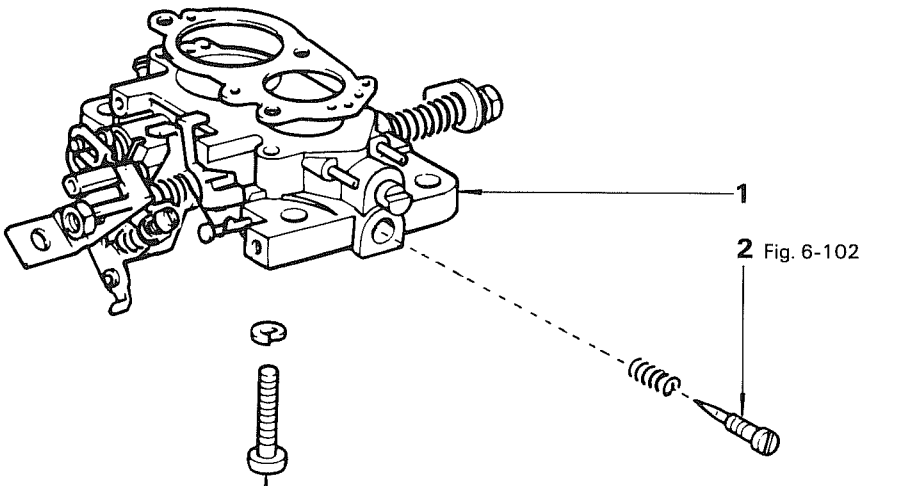
3. Idle mixture adjusting screw: Check for damaged tapered tip or threads.

ASSEMBLY

Flange

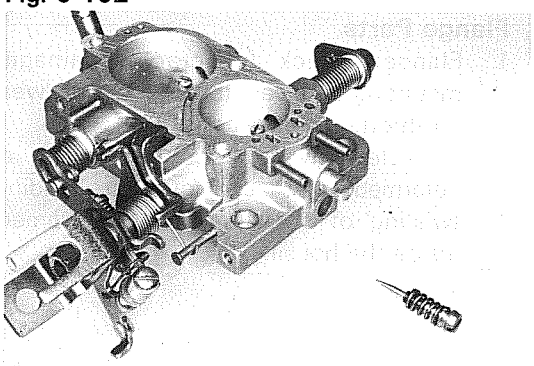
Assemble the parts in the numerical order shown in the figure.

Fig. 6-101



1. Carburetor Flange
2. Idle Mixture Adjusting Screw
3. Flange Screw

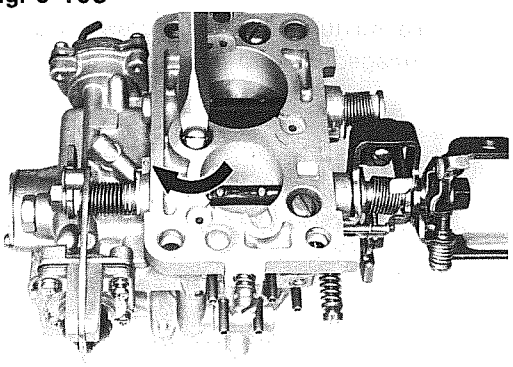
Fig. 6-102



Install the idle mixture adjusting screw temporarily.

— Note —
Be careful not to damage the screw tip.

Fig. 6-103



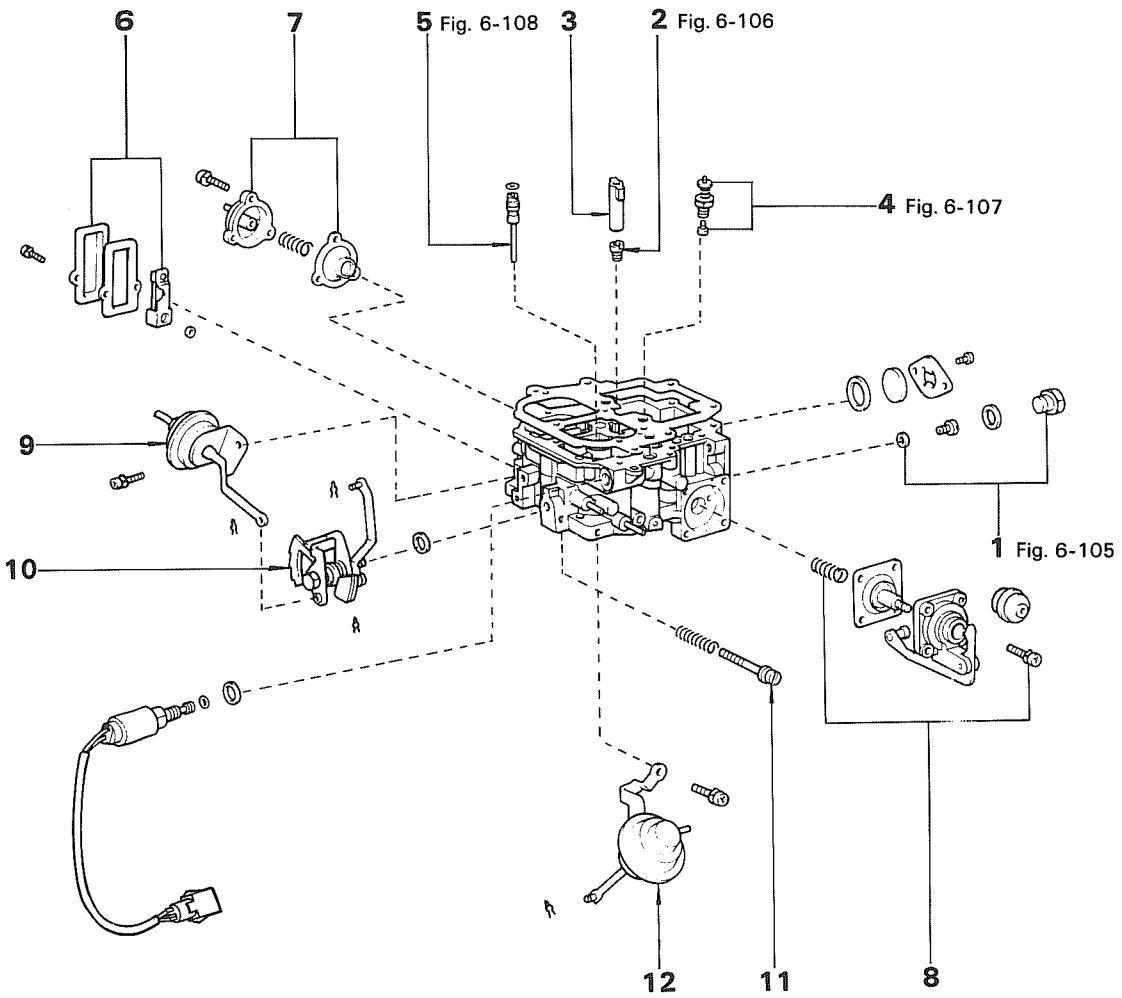
First finger tighten all bolts and then tighten them down.

— Note —
Use a new gasket.

Body

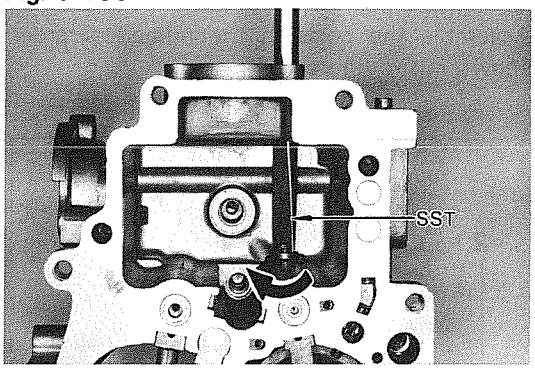
Assemble the parts in the numerical order shown in the figure.

Fig. 6-104



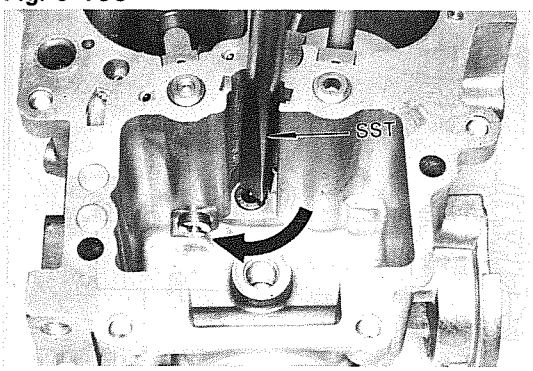
1. Primary Main Jet & Plug
2. Secondary Main Jet
3. Metering Needle Guide
4. Power Valve with Jet
5. Slow Jet
6. Thermostatic Valve
7. AAP (except General RX)
8. Acceleration Pump
9. FICB (RX ECE and Sweden)
10. Fast Idle Cam
11. Idle Speed Adjusting Screw
12. Throttle Positioner (Australia RB and RX except ECE A/T)

Fig. 6-105



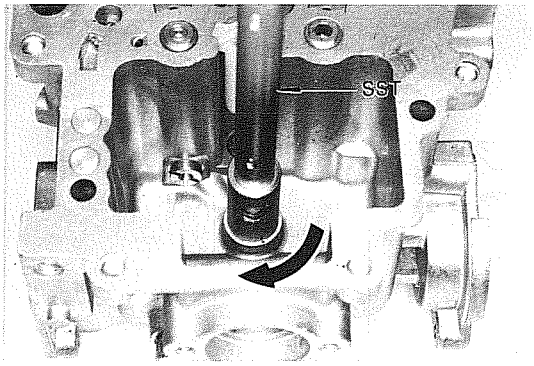
Install the primary main jet and tighten it with SST.
SST [09860-11011]

Fig. 6-106



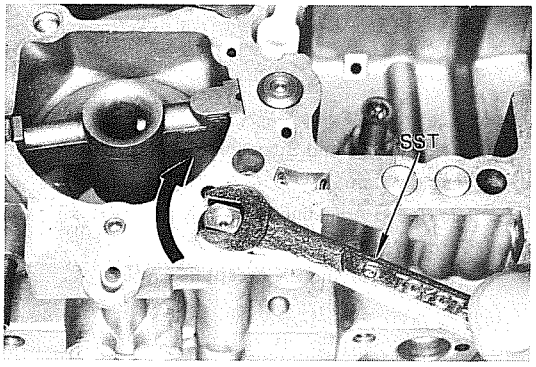
Install the secondary main jet and tighten it with SST.
SST [09860-11011]

Fig. 6-107



Install the power valve with jet and tighten it with SST.
SST [09860-11011]

Fig. 6-108

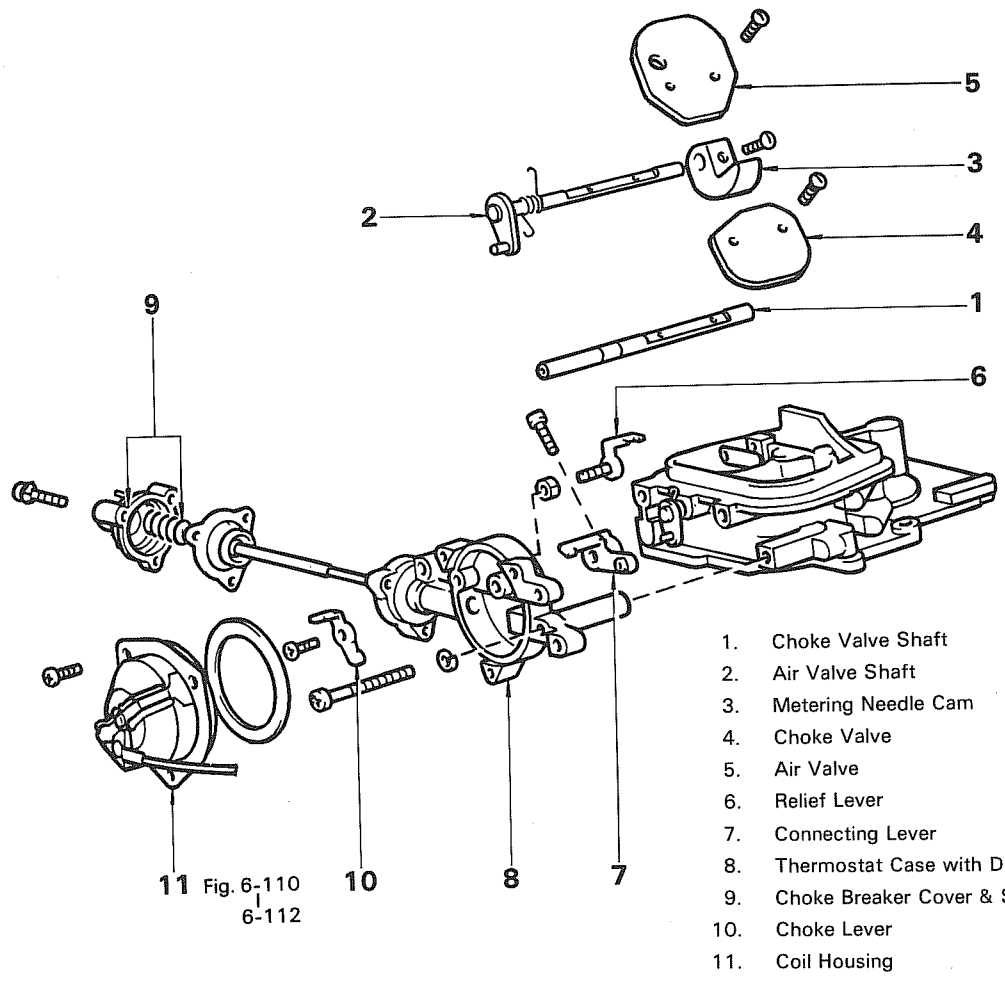


Install the slow jet and tighten it with SST.
SST [09922-00010]

Choke System

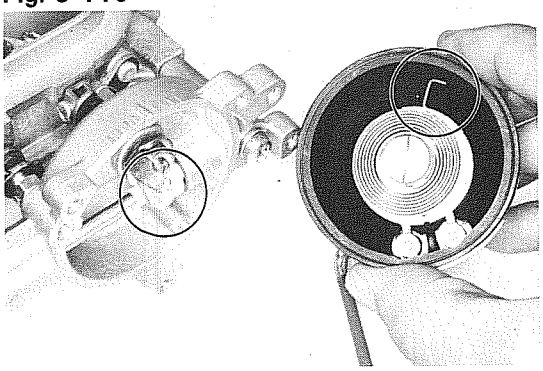
Assemble the parts in the numerical order shown in the figure.

Fig. 6-109



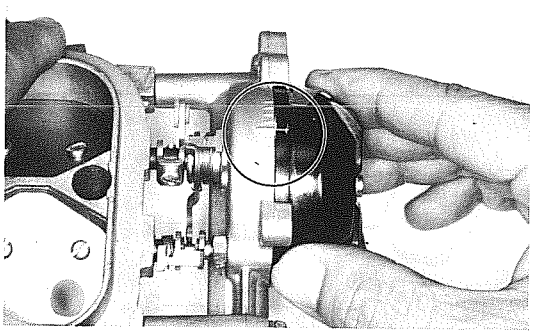
1. Choke Valve Shaft
2. Air Valve Shaft
3. Metering Needle Cam
4. Choke Valve
5. Air Valve
6. Relief Lever
7. Connecting Lever
8. Thermostat Case with Diaphragm
9. Choke Breaker Cover & Spring
10. Choke Lever
11. Coil Housing

Fig. 6-110



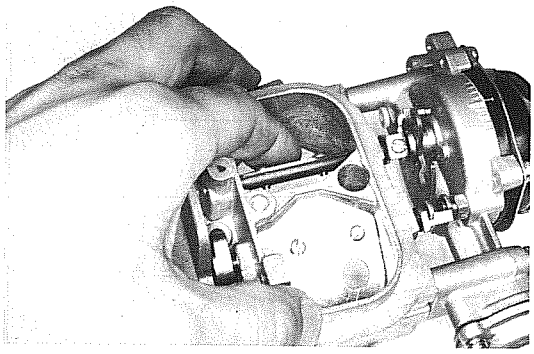
Hook the choke lever to the bi-metal spring.

Fig. 6-111



Align the case scale standard line with the housing scale line.

Fig. 6-112



Check the choke valve action.

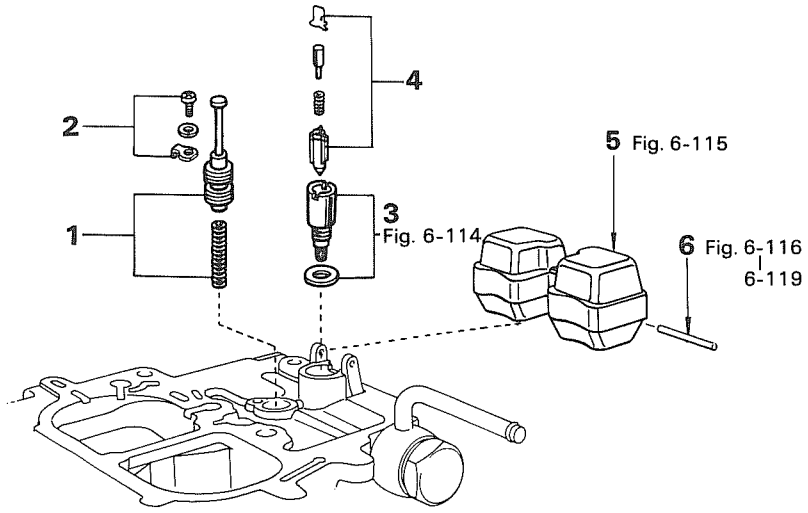
– Note –

Stake the choke valve shaft and air valve shaft screws after assembling.

Float

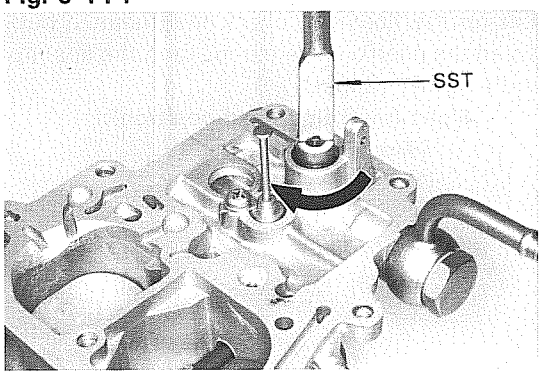
Assemble the parts in the numerical order shown in the figure.

Fig. 6-113



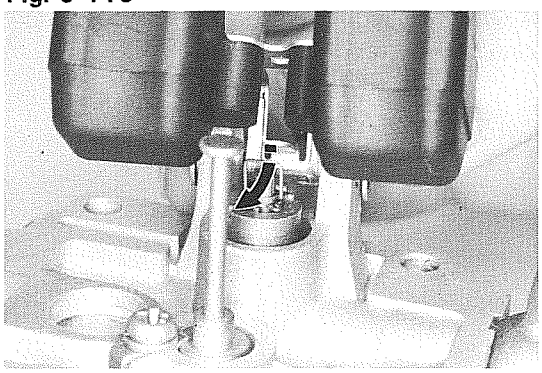
1. Power Piston & Spring
2. Power Piston Retainer
3. Needle Valve Seat
4. Needle Valve
5. Float
6. Pivot Pin

Fig. 6-114



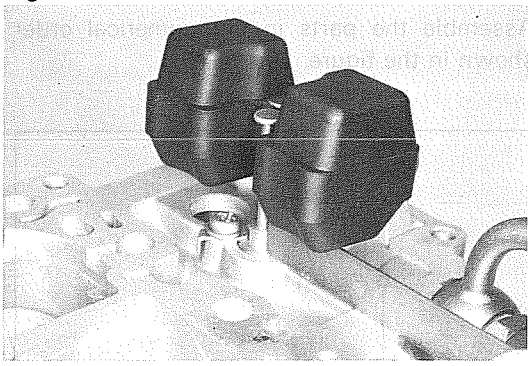
Install the needle valve seat and tighten it with SST.
SST [09860-11011]

Fig. 6-115



Insert the lip of the float under the wire of the needle valve.

Fig. 6-116

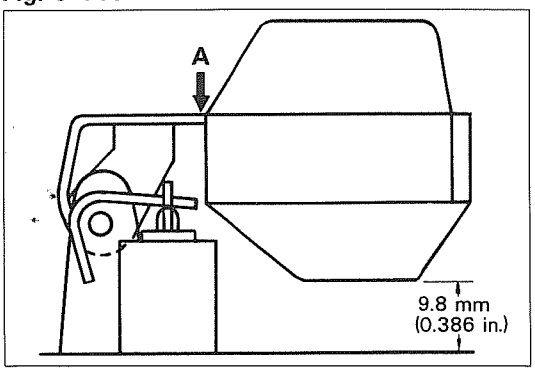


Adjust the float level.
Allow the float to hang down by its own weight.
Check the clearance between the float top and air horn with SST.
SST [09240-00014]

Float level: 9.8 mm (0.386 in.)

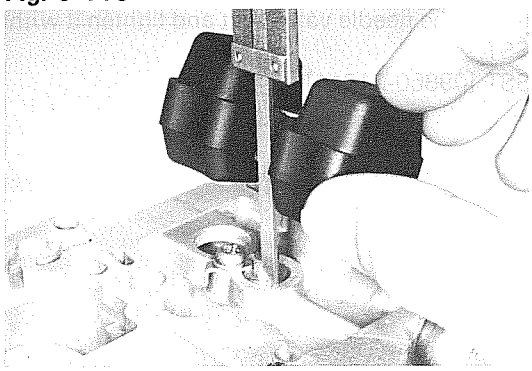
— Note —
Measure the clearance without a gasket on the air horn.

Fig. 6-117



Adjust by bending the part of the float indicated by A in the figure.

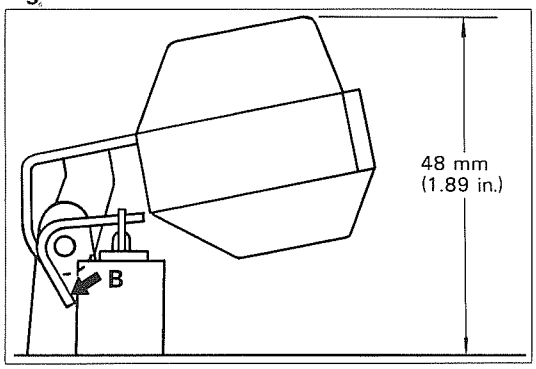
Fig. 6-118



Lift up the float and check the distance between the needle valve plunger and the float lip with vernier calipers.

Float level (lowered position):
48 mm
(1.89 in.)

Fig. 6-119

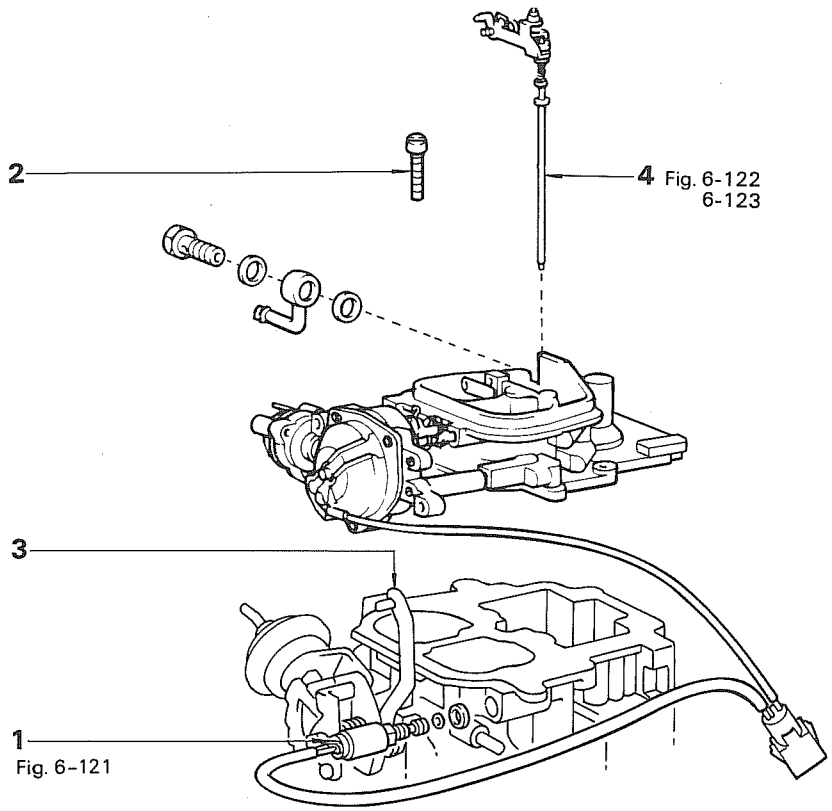


Adjust by bending the part of the float indicated by B in the figure.

Air Horn

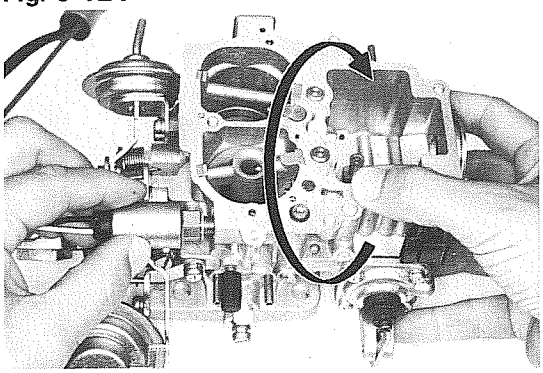
Assemble the parts in the numerical order shown in the figure.

Fig. 6-120



1. Solenoid Valve
2. Air Horn Screw
3. Fast Idle Link
4. Metering Needle

Fig. 6-121

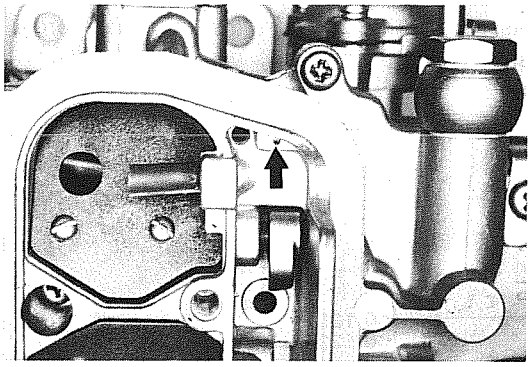


Install the solenoid valve into the carburetor body by rotating the carburetor body clockwise.

– Note –

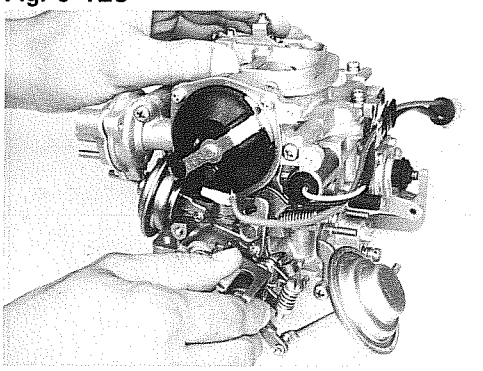
Be careful not to bend or distort the lead wires.

Fig. 6-122



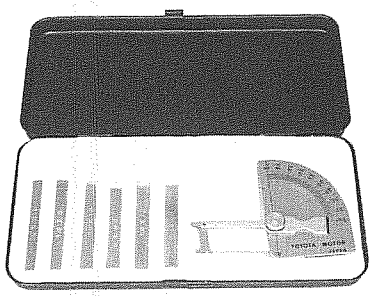
Hook the metering needle spring end into the hole indicated in the figure, then install the metering needle and two washers.

Fig. 6-123



After assembly, make sure that each link moves smoothly.

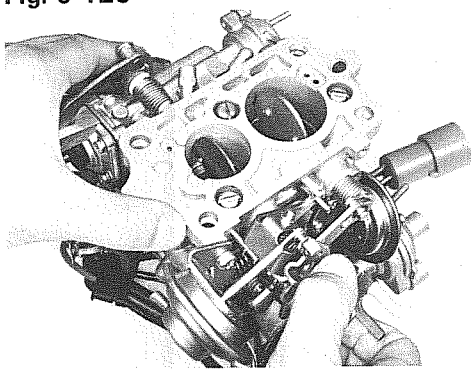
Fig. 6-124



CARBURETOR ADJUSTMENT

Make adjustment with SST.
SST [09240-00014]

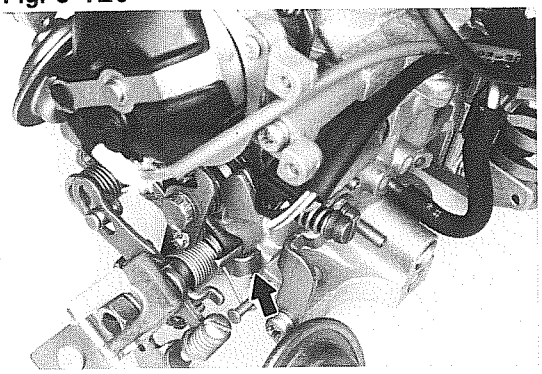
Fig. 6-125



PRIMARY THROTTLE VALVE OPENING

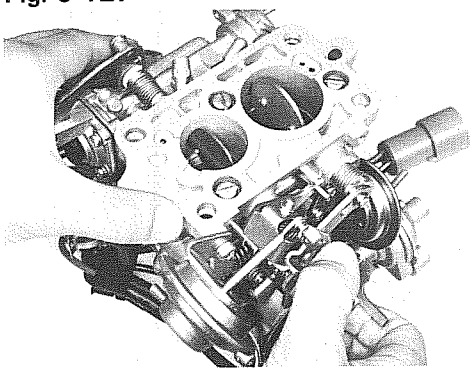
1. Fully open the primary throttle valve and check the opening angle.
   Opening angle from horizontal plane: 90°

Fig. 6-126



2. Adjust by bending the throttle arm lever.

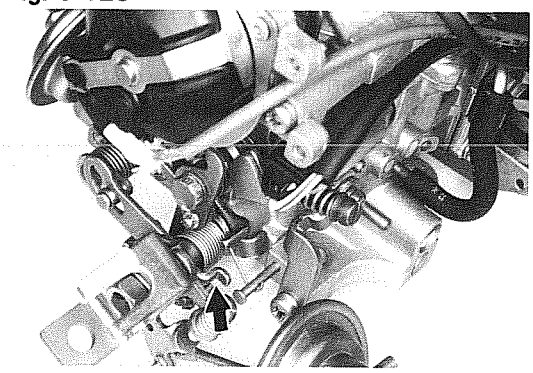
Fig. 6-127



SECONDARY THROTTLE VALVE OPENING

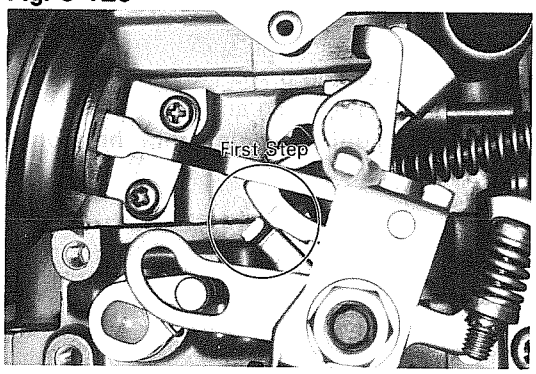
1. Fully open the secondary throttle valve and check the opening angle.
   Opening angle from horizontal plane: 90°

Fig. 6-128



2. Adjust by bending the throttle arm lever.

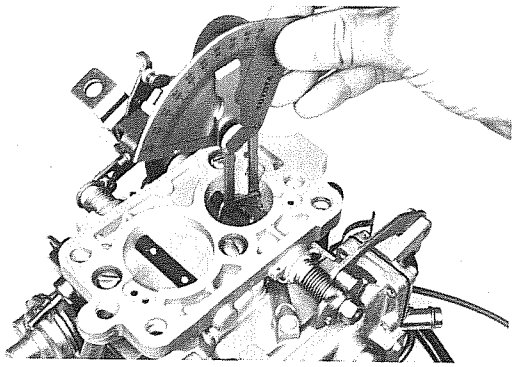
Fig. 6-129



FAST IDLE SETTING

1. Set the throttle shaft lever to the first step of the fast idle cam as shown in the figure.

Fig. 6-130

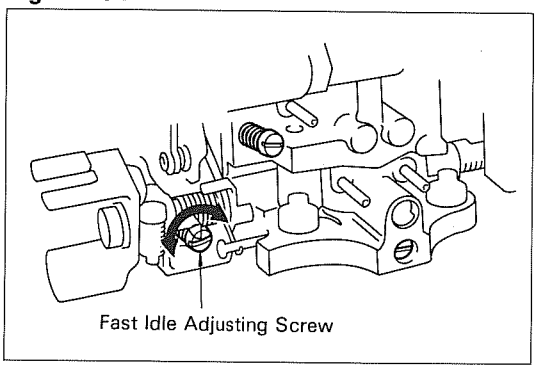


2. With the choke valve fully closed, check the primary throttle valve angle with SST.
SST [09240-00014]

Fast idle angle from horizontal plane:

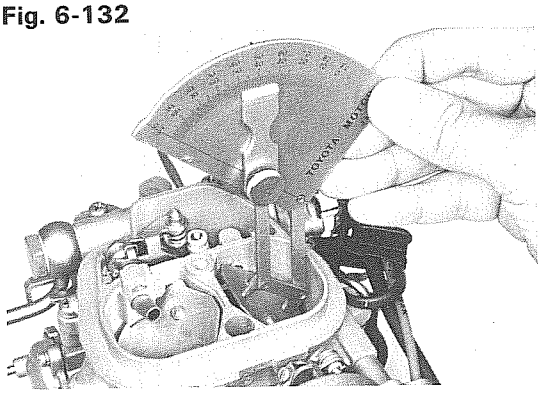
ECE RX	**21°**
Sweden RX	**22°**
Others	**24°**

Fig. 6-131



3. Adjust by turning the fast idle adjusting screw.

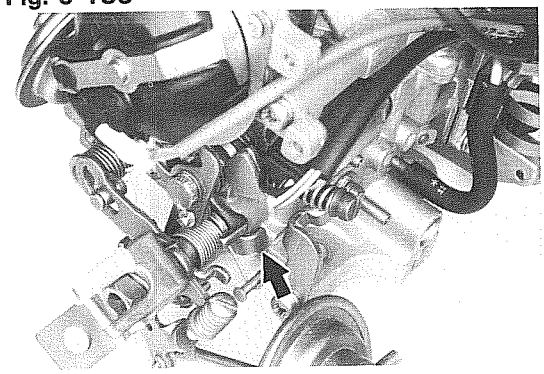
Fig. 6-132



UNLOADER

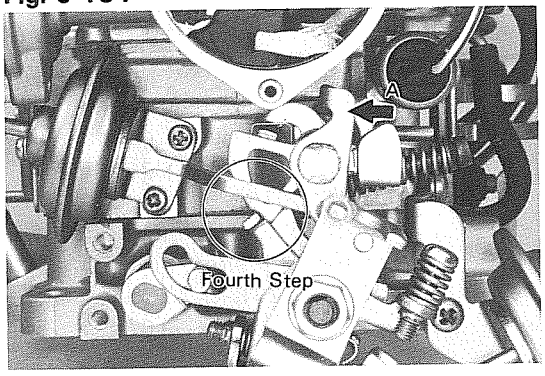
1. With the primary throttle valve fully opened, check the choke valve angle with SST.
   SST [09240-00014]
   Choke valve angle from horizontal plane:
   Canada RN 4x4 and RX 50°
   Others 45°

Fig. 6-133



2. Adjust by bending the first throttle arm.

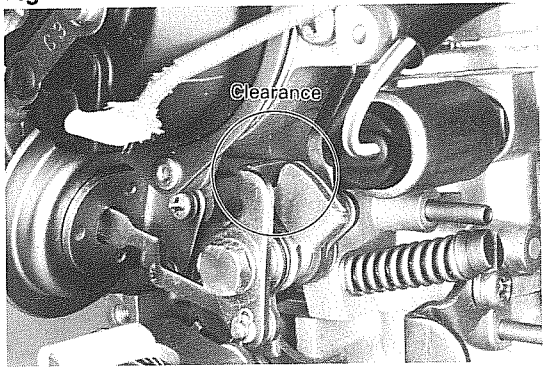
Fig. 6-134



CHOKE OPENER (22R except RB)

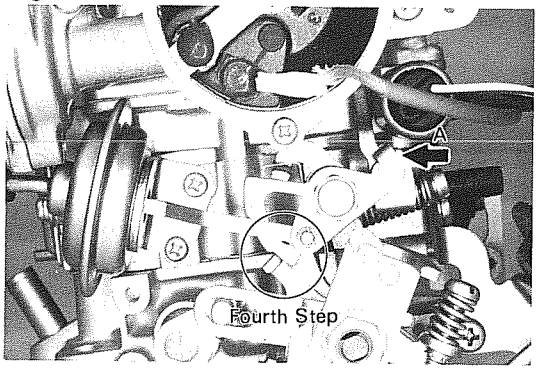
1. Apply vacuum to the choke opener diaphragm.
2. Check that the fast idle cam is released to the fourth step.
   If necessary, adjust by bending the choke opener lever A.

Fig. 6-135



3. Close the choke valve and set the fast idle lever to the first step.
4. Check that there is clearance between the choke opener lever and fast idle cam.

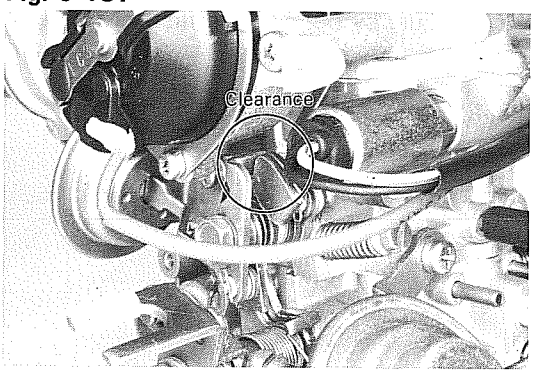
Fig. 6-136



FICB (RX ECE and Sweden)

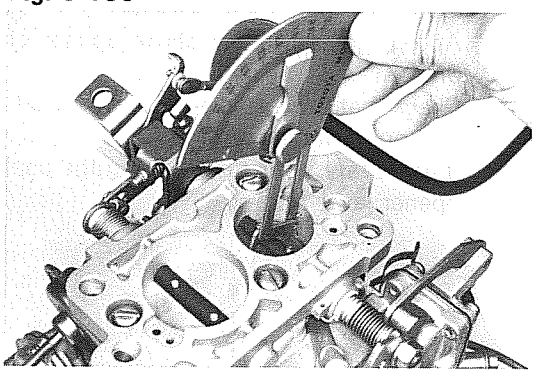
1. Apply vacuum to FICB diaphragm.
2. Check that the fast idle cam is released to the fourth step.
   If necessary, adjust by bending the choke opener lever A.

Fig. 6-137



3. Close the choke valve and set the fast idle lever to the first step.
4. Check that there is clearance between the choke opener lever and fast idle cam.

Fig. 6-138



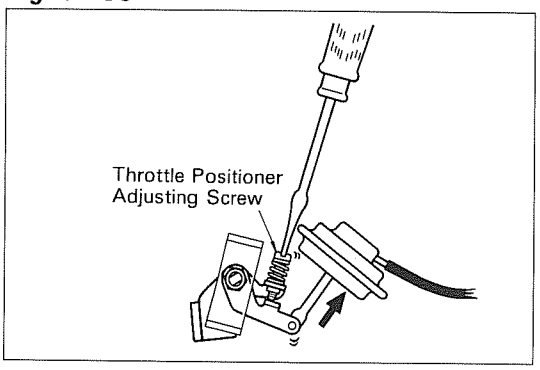
THROTTLE POSITIONER (Calif. RN 4x4, RN C&C, Australia RB and RX except ECE A/T)

1. Apply vacuum to the diaphragm.
2. Check the throttle valve opening angle with SST.
   SST [09240-00014]

   Throttle valve opening angle from horizontal plane:

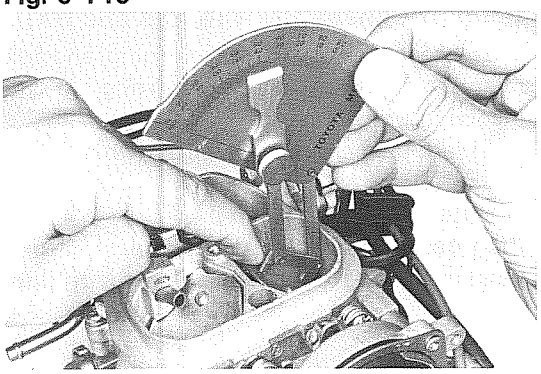
21R & 21R-C	**17°**
22R	**16°**

Fig. 6-139



3. Adjust by turning the adjusting screw.

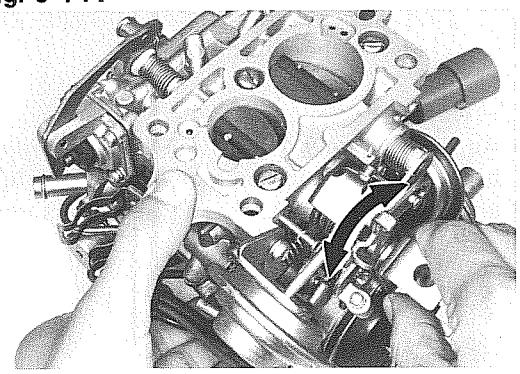
Fig. 6-140



CHOKE BREAKER

1. Apply vacuum to the choke breaker diaphragm.
2. While closing the choke valve by hand, check the choke valve opening angle with SST.
   SST [09240-00014]
   Choke valve opening angle from horizontal plane: 38°

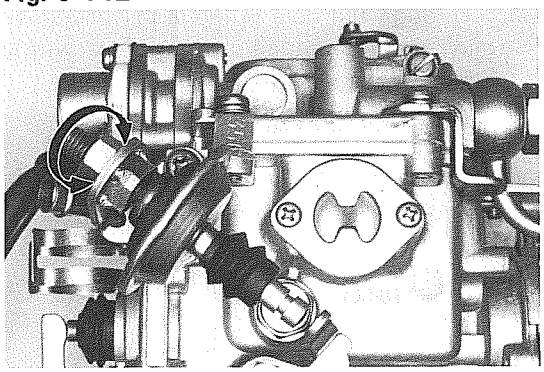
Fig. 6-141



ACCELERATION PUMP

While rotating the throttle shaft, check that the pump lever and diaphragm rod move smoothly.

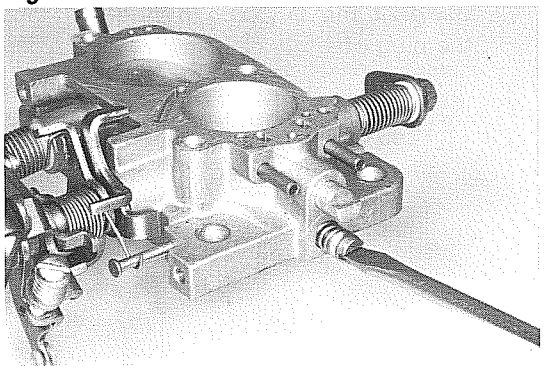
Fig. 6-142



DASH POT (USA RT A/T and USA RA A/T)

1. Fully open the choke valve and release the fast idle cam to the fourth step.
2. Fully open and return the throttle valve. Check the time required for the throttle valve return to the idle position.
   Time required: 3 seconds
3. Adjust by turning the dash pot adjusting nut.

Fig. 6-143



IDLE MIXTURE ADJUSTING SCREW (Canada RN 4x4, RB and RX)

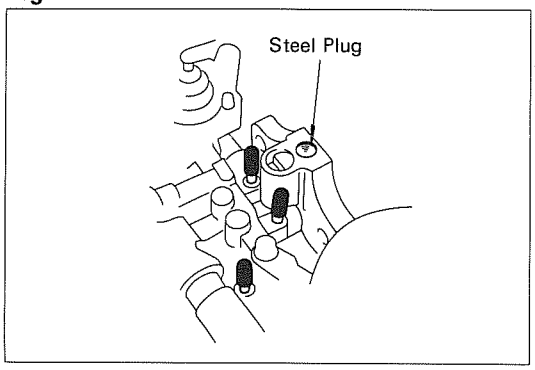
Tighten the idle mixture adjusting screw fully and then unscrew it the following amount.

Return: 3 turns from fully closed

— Note —

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

Fig. 6-144



(except Canada RN 4x4, RB and RX)

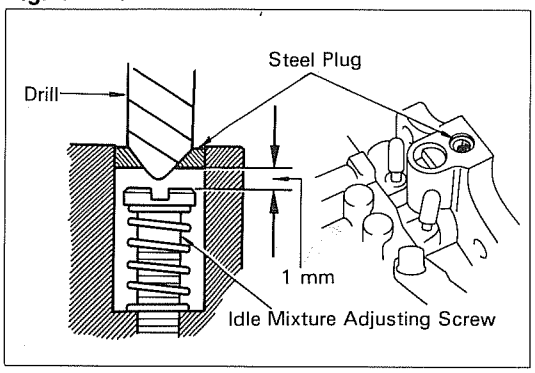
If necessary, remove the steel plug and idle mixture adjusting screw referring to the following procedures.

1. Mark the center of the plug with a punch.

– Note –

Plug each carburetor vacuum port to prevent entry of steel particles when drilling.

Fig. 6-145

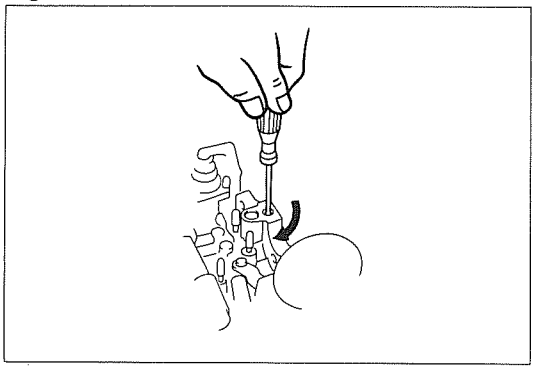


2. Drill a 6.5 mm ϕ (0.256 in. ϕ) hole in the center of the plug.

– Note –

As there is only 1 mm (0.04 in.) clearance between the plug and screw, drill carefully and slowly to avoid drilling onto the screw.

Fig. 6-146

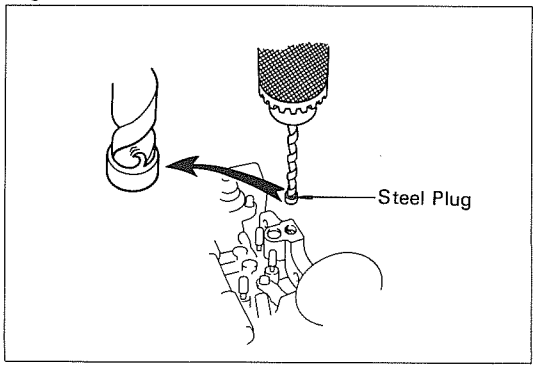


3. Through the hole in the plug, fully screw in the mixture adjusting screw with a screwdriver.

– Note –

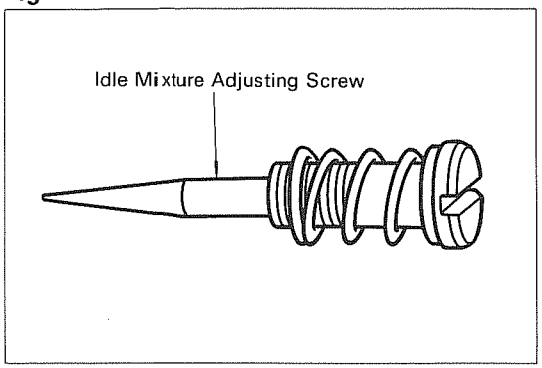
Be careful not to damage the screw tip by tightening the screw too tightly.

Fig. 6-147



4. Use a 7.5 mm ϕ (0.295 in. ϕ) drill to force the plug off.

Fig. 6-148

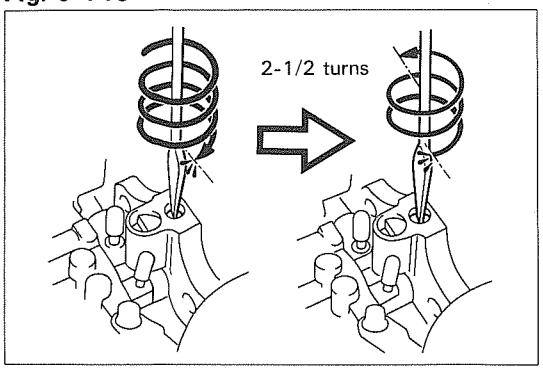


5. Blow off any steel particles with compressed air and remove the screw.

– Note –

If the drill has gnawed into the screw top or if the tapered position is damaged, replace the screw.

Fig. 6-149

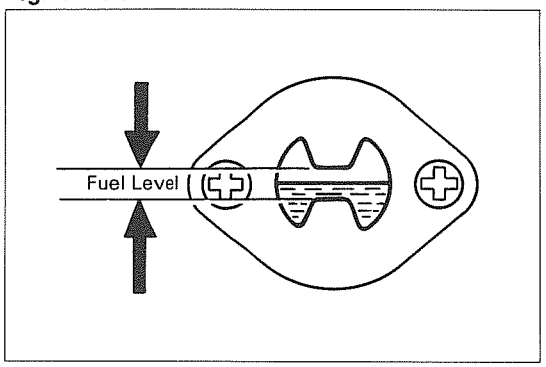


6. Fully screw in the idle mixture adjusting screw and then unscrew it about 2-1/2 turns.

– Note –

1. **Be careful not to damage the screw tip by tightening the screw too tightly.**
2. **Do not install the steel plug until the idle mixture adjustment is finished.**

Fig. 6-150

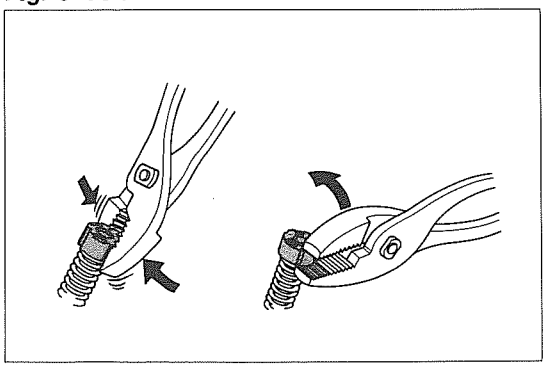


IDLE MIXTURE SPEED ADJUSTMENT

In the case of the steel plug being removed, check the idle mixture speed referring to the following procedures.

1. Check the following items before adjustment.
   (1) Air cleaner installed
   (2) Normal operating coolant temperature
   (3) Choke fully open
   (4) All accessories switched off
   (5) All vacuum lines connected
   (6) Ignition timing set correctly
   (7) Transmission in N range
   (8) Fuel level should be about even with the correct level in the sight glass.

Fig. 6-151



2. Break the idle limiter cap on the idle speed adjusting screw if installed.

Fig. 6-152

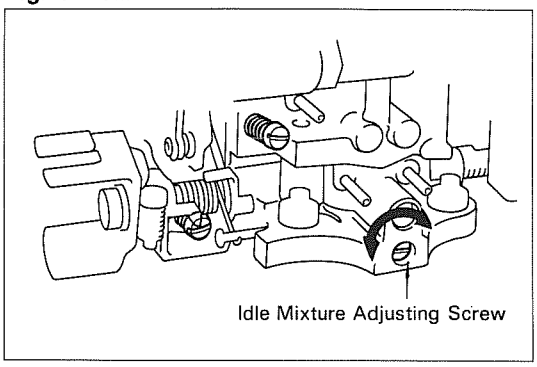


Fig. 6-153

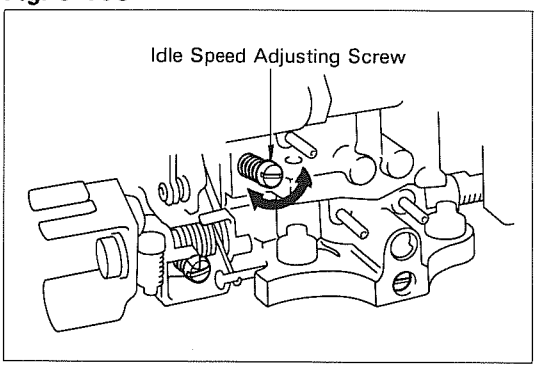


Fig. 6-154

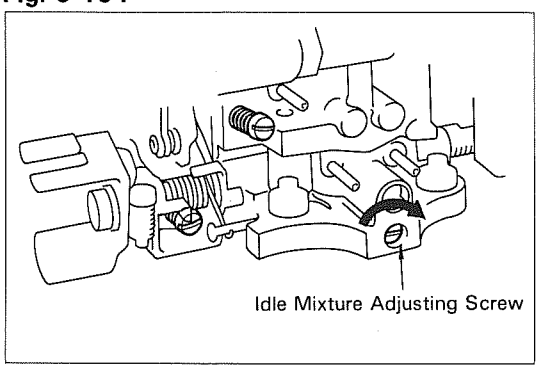
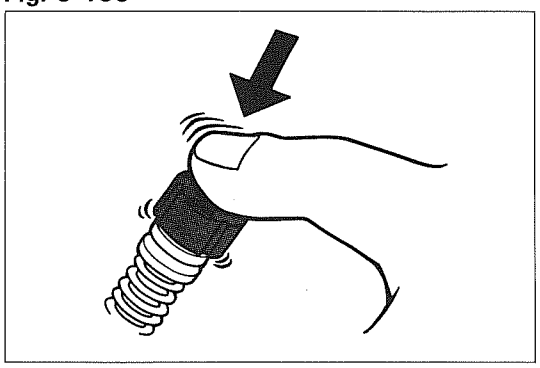


Fig. 6-155



3. Start the engine and set to the maximum speed by turning the idle mixture adjusting screw.

4. Set to the idle mixture speed by turning the idle speed adjusting screw.

Idle mixture speed:

All M/T	**740 rpm**
USA RA, RT, RN w/ A/T (Ex. Fed. RN w/ 4-speed A/T)	**790 rpm**
Fed. RN w/ 4-speed A/T	**740 rpm**
Canada RA, RT w/ A/T	**890 rpm**
Canada RN w/ A/T	**790 rpm**

– Note –

Before moving to the next step, continue the adjustments 3 and 4 until the maximum speed will not rise any further no matter how much the IDLE MIXTURE ADJUSTING SCREW is adjusted.

5. Set to the idle speed by screwing in the idle mixture adjusting screw.

Idle speed:

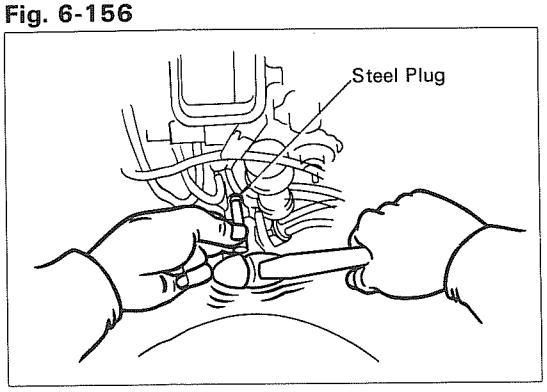
All M/T	**700 rpm**
USA RA, RT, RN w/ A/T (Ex. Fed. RN w/ 4-speed A/T)	**750 rpm**
Fed. RN w/ 4-speed A/T	**700 rpm**
Canada RA, RT w/ A/T	**850 rpm**
Canada RN w/ A/T	**750 rpm**

– Note –

This is the "Lean Drop Method" for setting idle speed and mixture.

6. Install a new limiter cap on the idle speed adjusting screw if one was installed.

Fig. 6-156



7. Tap in a new plug until it is even with the carburetor flange surface.

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