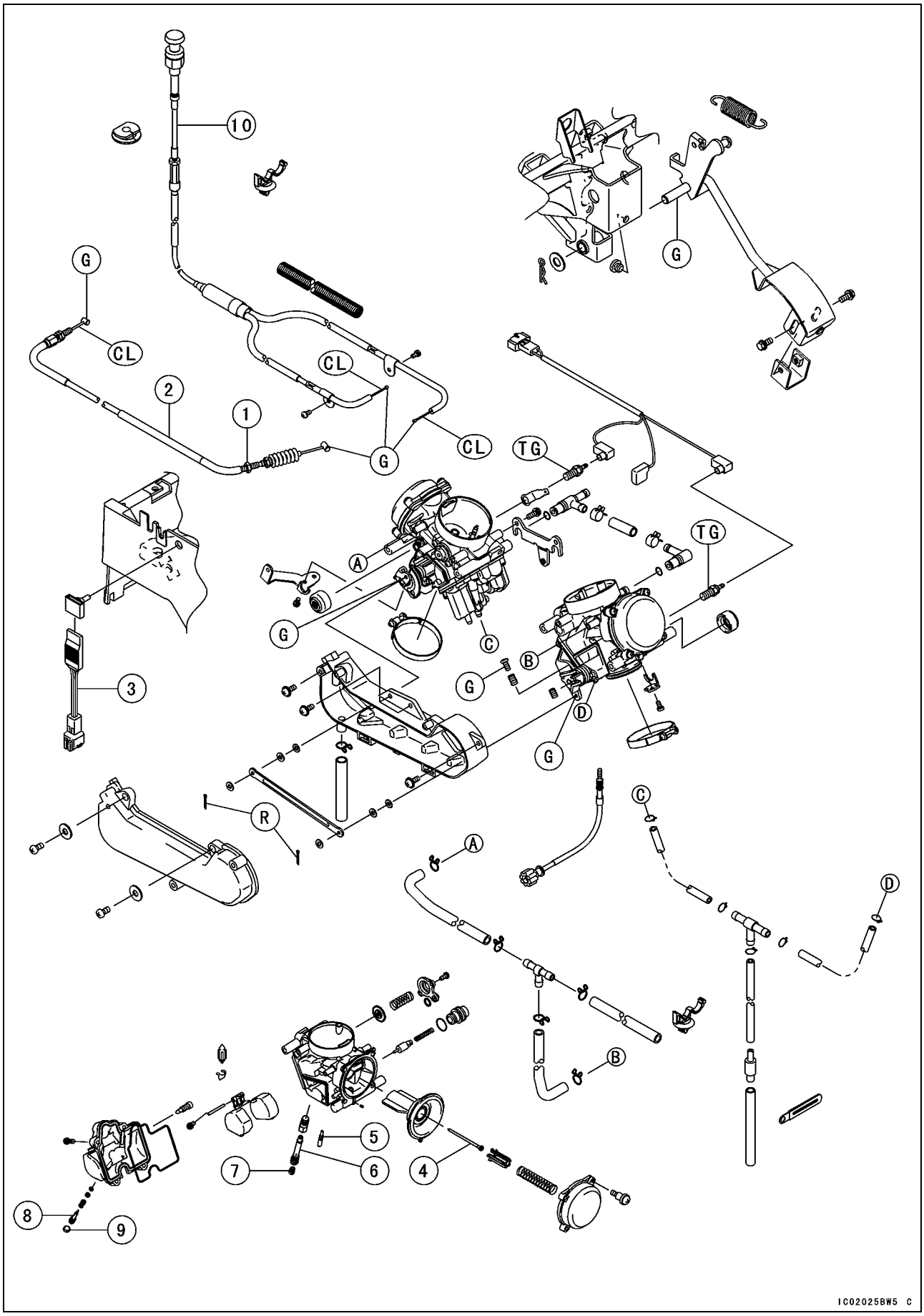
Fuel System

Table of Contents

Exploded View



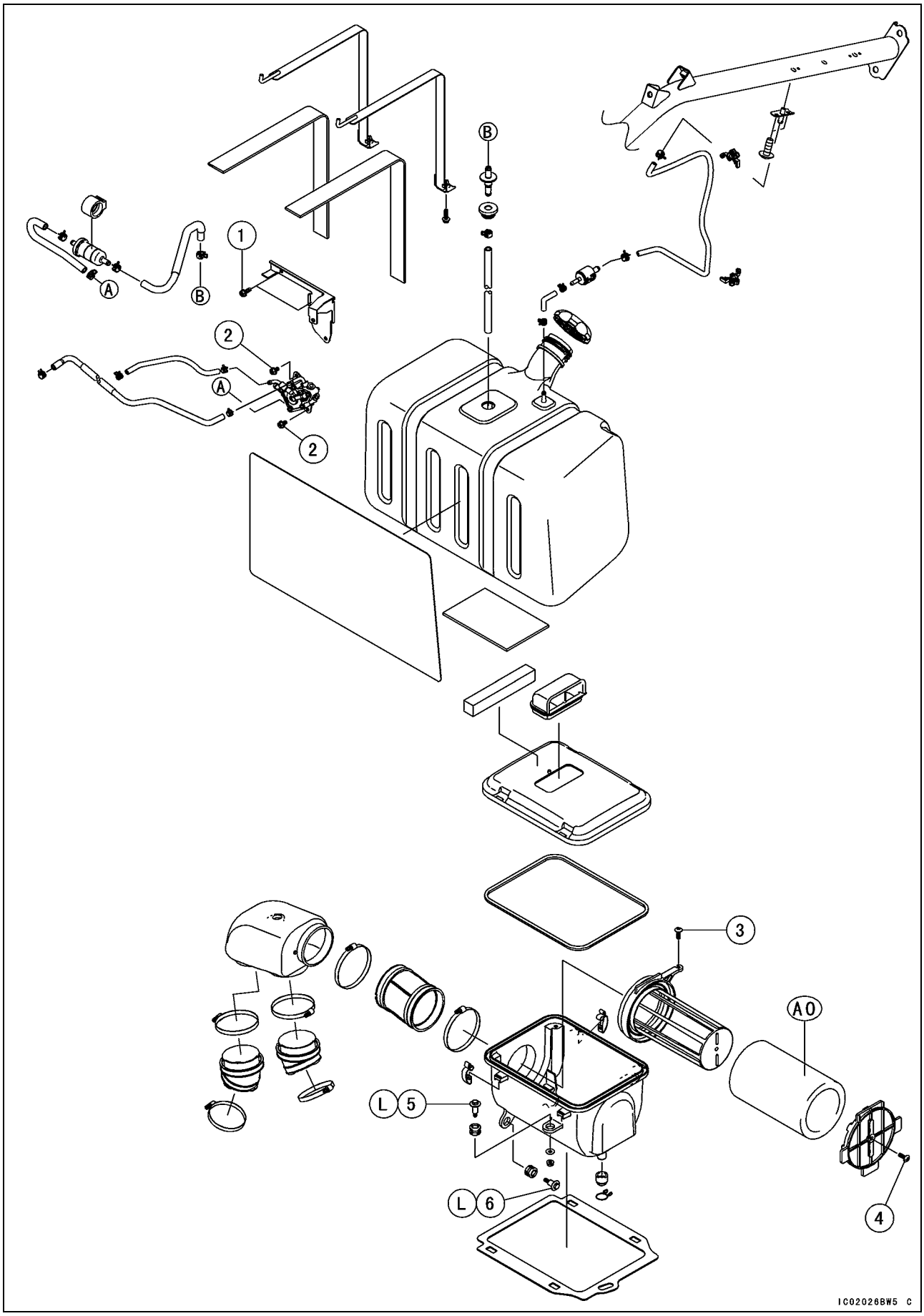
Exploded View

No.	Fastener	Torque			Remarks
		N·m	kgf·m	ft·lb	
1	Throttle Cable Locknut	4.4	0.45	39 in·lb	

2. Throttle Cable
3. Air Temperature Sensor
4. Jet Needle
5. Pilot Jet
6. Jet Holder
7. Main Jet
8. Pilot Screw
9. Plug
10. Choke Cable

CL: Apply cable lubricant.
G: Apply grease.
R: Replacement Parts
TG: Apply thermal transfer grease.

Exploded View



Exploded View

No.	Fastener	Torque			Remarks
		N·m	kgf·m	ft·lb	
1	Fuel Pump Bracket Bolts	8.8	0.90	78 in·lb	
2	Fuel Pump Mounting Bolts	8.8	0.90	78 in·lb	
3	Element Holder Screws	4.5	0.46	40 in·lb	
4	Element Cover Screw	4.5	0.46	40 in·lb	
5	Air Cleaner Mounting Bolts, L = 28.7 mm (1.13 in.)	8.8	0.90	78 in·lb	L
6	Air Cleaner Mounting Bolts, L = 27.5 mm (1.08 in.)	8.8	0.90	78 in·lb	L

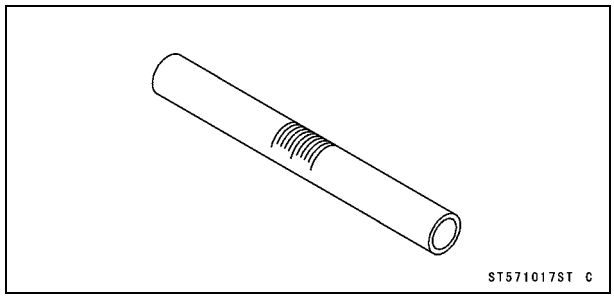
AO: Apply high-quality form air filter oil.
L: Apply a non-permanent locking agent.

Specifications

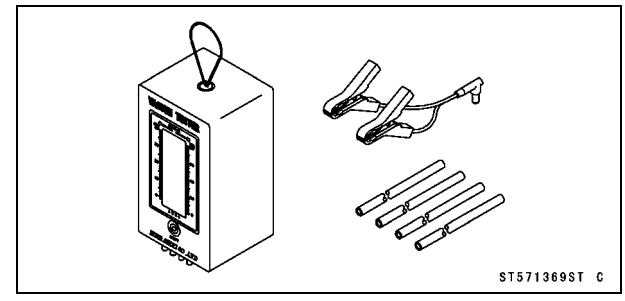
Item	Standard	Service Limit
Throttle Pedal and Cable		
Throttle Pedal Free Play	5 ~ 10 mm (0.20 ~ 0.39 in.)	– – –
Choke Knob and Cable		
Choke Knob Free Play	0 ~ 1 mm (0 ~ 0.04 in.)	– – –
Carburetor		
Idle Speed	1 250 ±50 r/min (rpm)	– – –
Make/Type	KEIHIN, CVKR-34	– – –
Main Jet:		
Front	#135	– – –
Rear	#140	– – –
Main Air Jet	#70	– – –
Needle Jet	#6	– – –
Jet Needle:		
Front	N3RL	– – –
Rear	NFCH	– – –
Pilot Jet	#38	– – –
Pilot Air Jet	#100	– – –
Pilot Screw	1 9/16 turns out (Reference)	– – –
Carburetor Synchronization Vacuum	less than 2.7 kPa (2 cmHg) difference between carburetors	– – –
Starter Jet	#82	– – –
Service Fuel Level:		
Front	20.4 ±1 mm (0.80 ±0.04 in.) below the punch mark	– – –
Rear	19.5 ±1 mm (0.77 ±0.04 in.) below the punch mark	– – –
Float Height	2.9 ±1 mm (0.11 ±0.04 in.)	– – –
Optional Parts:		
Main Jet:		
*Altitude		
0 ~ 1 200 m (0 ~ 3 900 ft):		
Front	#135 (92063-1014)	– – –
Rear	#140 (92063-1013)	– – –
1 200 ~ 2 500 m (3 900 ~ 8 200 ft):		
Front	#132 (92063-1076)	– – –
Rear	#138 (92063-1015)	– – –
2 500 ~ 3 500 m (8 200 ~ 11 500 ft):		
Front	#128 (92063-1074)	– – –
Rear	#132 (92063-1076)	– – –
3 500 ~ 4 500 m (11 500 ~ 14 800 ft):		
Front	#125 (92063-1069)	– – –
Rear	#130 (92063-1075)	– – –
Air Cleaner		
Air Cleaner Element Oil	High-quality foam air filter oil	– – –

Special Tools

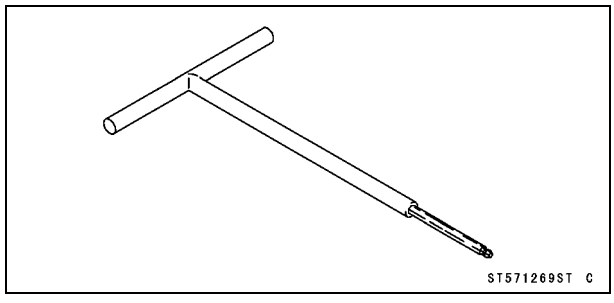
Fuel Level Gauge:
57001-1017



Vacuum Gauge:
57001-1369



Carburetor Drain Plug Wrench, Hex 3:
57001-1269



Throttle Pedal and Cable

Throttle Pedal Free Play Inspection

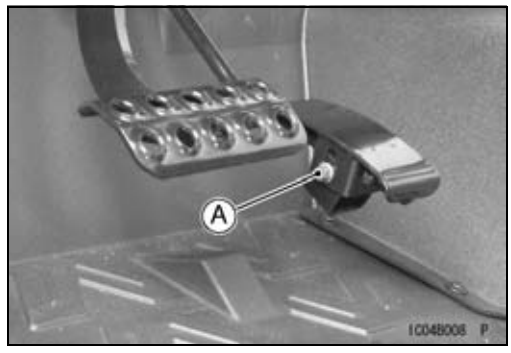
- Refer to the Throttle Pedal Free Play Inspection in the Periodic Maintenance chapter.

Throttle Pedal Free Play Adjustment

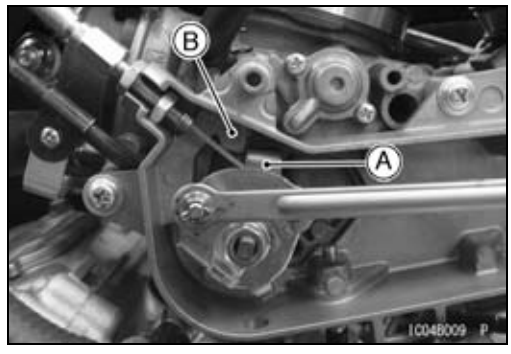
- Refer to the Throttle Pedal Free Play Adjustment in the Periodic Maintenance chapter.

Full Throttle Pedal Position Adjustment

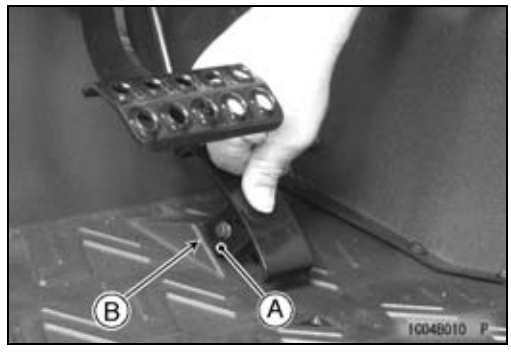
- Remove the stopper bolts [A] and apply a non-permanent locking agent to them.
- Tighten them lightly.



- Depress the throttle pedal until the gap between the stopper [A] of the link lever and stopper [B] of the link case is 0 ~ 1 mm (0 ~ 0.04 in.).

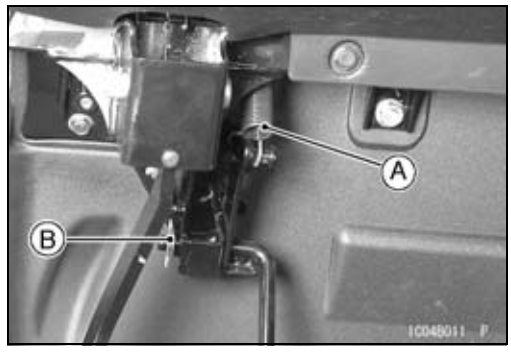


- Then touch the stopper [A] of the pedal to the floorboard [B], and tighten the stopper bolts securely.



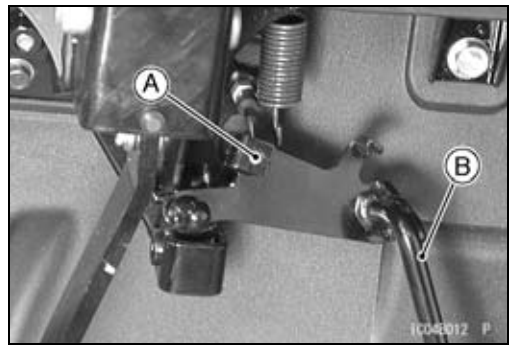
Throttle Pedal Removal

- Remove:
  Spring [A]
  Snap Pin [B] and Washer
- Remove the throttle pedal from the bracket.



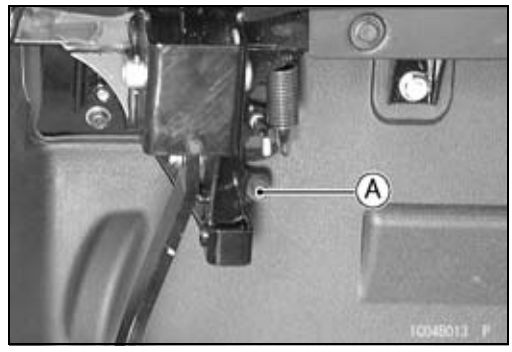
Throttle Pedal and Cable

- Remove the throttle cable end [A] from the throttle pedal [B].



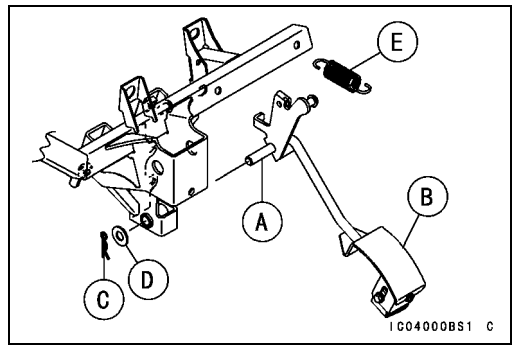
Throttle Pedal Installation

- Check that the damper [A] on the bracket is properly in place.

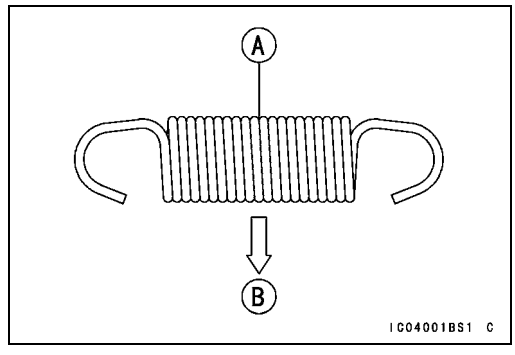


- Apply grease:
  Throttle Cable End
  Pin [A] of Throttle Pedal
- Install:
  Throttle Cable End
  Throttle Pedal [B]
  Snap Pin [C] and Washer [D]
  Spring [E]

○Do not use a needle nose pliers for the damage prevention of the spring.



- Install the spring [A] as shown in the figure.
  Downward [B]



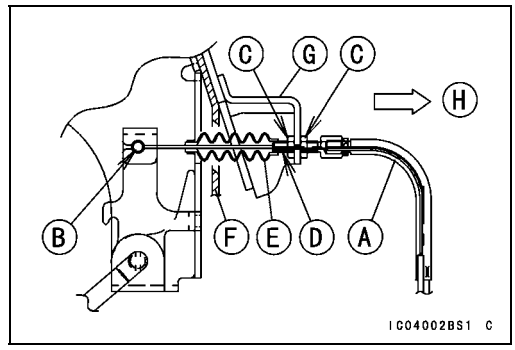
Throttle Cable Installation

- Lubricate the throttle cable before installation.
- Route the cable correctly according to the Cable, Wire, and Hose Routing in the Appendix chapter.

⚠ WARNING

Operation with an improperly adjusted, incorrectly routed, or damaged cable could result in an unsafe riding condition.

Throttle Pedal and Cable



- Install the front end of the throttle cable [A] as shown in the figure.
- Apply grease to the cable end [B].
- Tighten:

  Torque - Throttle Cable Locknuts [C]: 4.4 N·m (0.45 kgf·m, 39 in·lb)

- Install the boot end [D] in the groove of the joint.
  Boot [E]
  Floorboard [F]
  Bracket [G]
  Front [H]
- Check the throttle cable (see Throttle Pedal Free Play Inspection in the Periodic Maintenance chapter).
- Adjust the full throttle pedal position (see Full Throttle Pedal Position Adjustment).

Throttle Cable Lubrication and Inspection

- Whenever the throttle cable is removed or in accordance with the Periodic Maintenance Chart in the Periodic Maintenance chapter, lubricate the cable .
- Refer to the General Lubrication and Inspection in the Periodic Maintenance chapter.

Choke Knob and Cable

Choke Knob Free Play Inspection

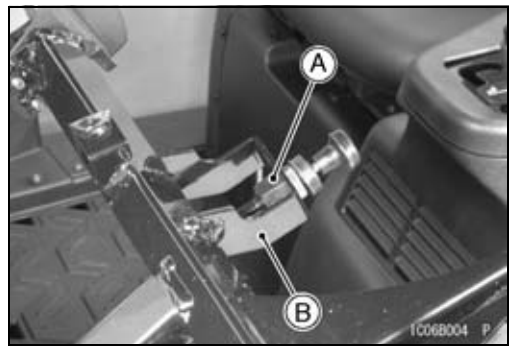
- Refer to the Choke Cable Free Play Inspection in the Periodic Maintenance chapter.

Choke Knob Free Play Adjustment

- Refer to the Choke Knob Free Play Adjustment in the Periodic Maintenance chapter.

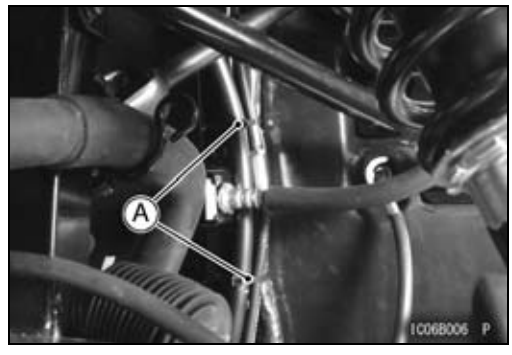
Choke Cable Removal

- Lift and hold the front fender (see Front Fender Removal in the Frame chapter).
- Remove:
  Control Panel (see Control Panel Removal in the Frame chapter)
- Loosen the locknut [A] and remove the choke cable from the bracket [B].

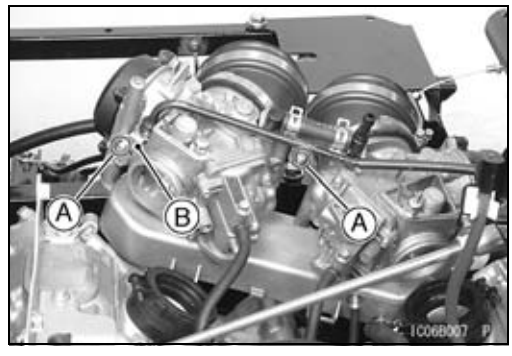


- Remove:
  Grommet [A]

- Cut the bands [A].

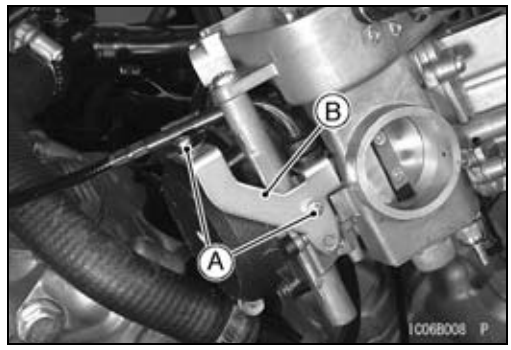


- Remove:
  Seat Lower Cover (see Seat Lower Cover Removal in the Frame chapter)
  Air Cleaner Housing (see Air Cleaner Housing Removal)
- Remove the carburetor from the carburetor holder (see Carburetor Removal).
- Remove:
  Screws [A] and Rear Holder Plate [B]

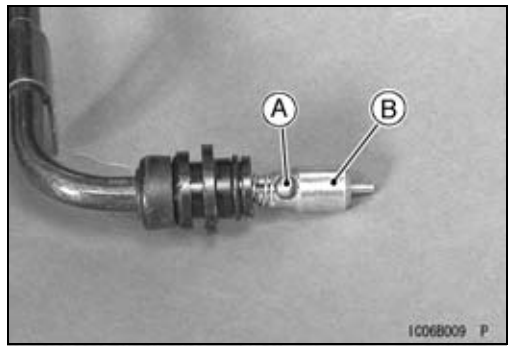


Choke Knob and Cable

- Remove:
  Screws [A] and Front Holder Plate [B]



- Hold the choke plunger springs compressed, and free the choke cable ends [A] from the plungers [B].
- Remove the bands and choke cable from the frame.



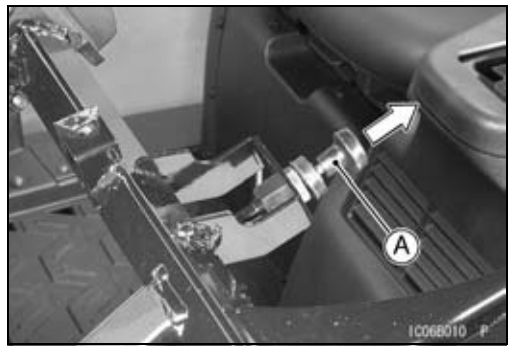
Choke Cable Installation

- Lubricate the choke cable before installation.
- Installation is basically the reverse of removal.
- Route the choke cable according to the Cable, Wire and Hose Routing in the Appendix chapter.

- Before installing the control panel, check that the stroke of the choke knob is more than 15 mm (0.59 in.).

○Pull the choke knob [A] until it is stopped. The stroke is the moved distance of the choke knob.

★If the stroke is less than 15 mm (0.59 in.), check the routing of the choke cable (see Cable, Wire and Hose Routing in the Appendix chapter).



⚠ WARNING

Operation with an incorrectly routed, or damaged cable could result in an unsafe riding condition.

Choke Cable Lubrication and Inspection

- Whenever the choke cable is removed or in accordance with the Periodic Maintenance chart in the Periodic Maintenance chapter, lubricate the cable.
- Refer to the General Lubrication and Inspection in the Periodic Maintenance chapter.

Carburetor

Idle Speed Inspection

- Refer to the Idle Speed Inspection in the Periodic Maintenance chapter.

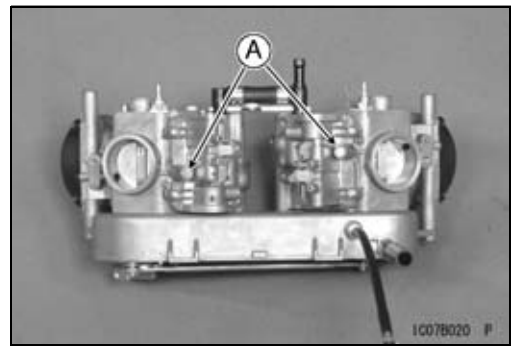
Idle Speed Adjustment

- Refer to the Idle Speed Adjustment in the Periodic Maintenance chapter.

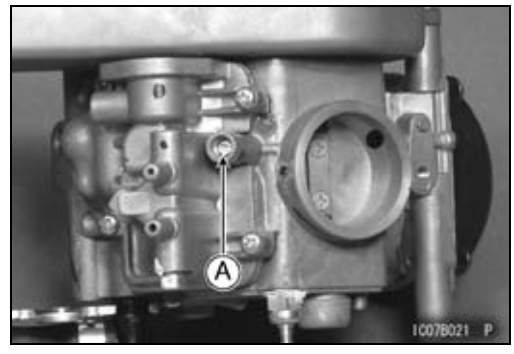
Pilot Screw Adjustment

- The pilot screws are set at factory and should not be removed. But if necessary, adjust the pilot screws.
- Remove:
  Carburetor (see Carburetor Removal)
- Remove the pilot screw plugs [A] as follows:

○Punch a hole in the plug and pry it out with an awl or other suitable tool.



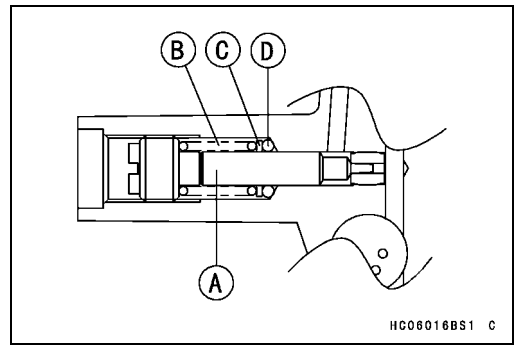
- Turn in the pilot screw [A] and count the number of turns until it seats fully but not tightly, and record the number of turns.



CAUTION
Do not over-tighten the pilot screw or the carburetor body will be damaged and require replacement.

- Record the number of other screw by the same procedure.

- Remove:
  Pilot Screw [A]
  Spring [B]
  Washer [C]
  O-ring [D]
- Check the pilot screw (see Carburetor Inspection).
- Replace the O-ring with a new one.
- Turn in the pilot screw until it seats fully but not tightly.
- Back out the same number of turns counted when first turned in. This is to set the screw to its original position.



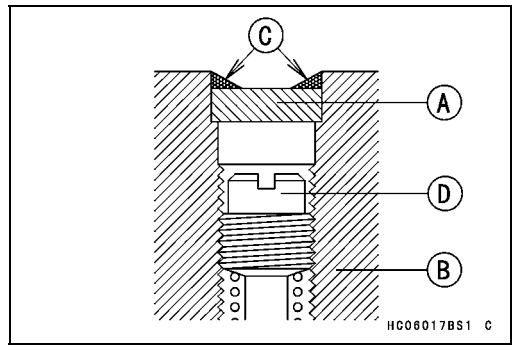
NOTE

○*A carburetor has different "turns out" of the pilot screw for each individual unit. When setting the pilot screw, use the "turns out" determined during removal.*

Carburetor Pilot Screw Setting
Standard: 1 9/16 turns out (Reference)

Carburetor

● Install the pilot screw plug as follows:
○Install a new plug [A] in the pilot screw hole of the carburetor body [B], and apply a small amount of a bonding agent [C] to the circumference of the plug to fix the plug.
[D] Pilot Screw



CAUTION

Do not apply too much bonding agent to the plug or the pilot screw itself may be fixed.

Service Fuel Level Inspection

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition switch OFF. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

● Park the vehicle on a level surface.
● Remove:
Engine Upper Cover (see Engine Upper Cover Removal in the Frame chapter)
Throttle Link Case Cover
Carburetor Drain Hose

Carburetor

- Connect two suitable hoses [A] to the fuel level gauge [B] and the float chamber of the carburetors.

Special Tool - Fuel Level Gauge: 57001-1017

- Mark the additional graduation [C] 15 mm (0.59 in.) higher than the top graduation [D].
- Hold the gauge so that the additional graduation is placed slightly higher than the punch mark [E].
  [F] Front Carburetor
  [G] Rear Carburetor
- Run the engine at idle speed.
- Loosen the carburetor drain screw.

Special Tool - Carburetor Drain Plug Wrench, Hex 3: 57001-1269

- Wait until the fuel level in the gauge settles.
- Hold the gauge vertically and lower it slowly so that the additional graduation aligns with punch mark.

NOTE

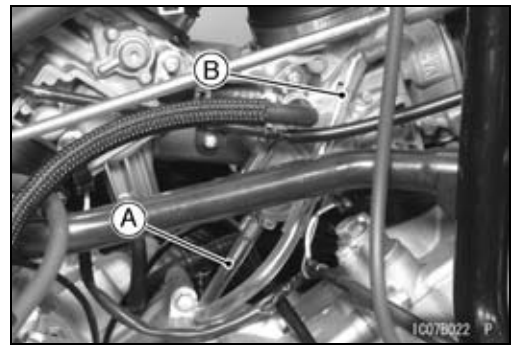
○*Do not align the additional graduation on the gauge lower than the punch mark. If it is lowered and then raised, the gauge will show a fluid level that is higher than the actual level, which will require a remeasurement.*

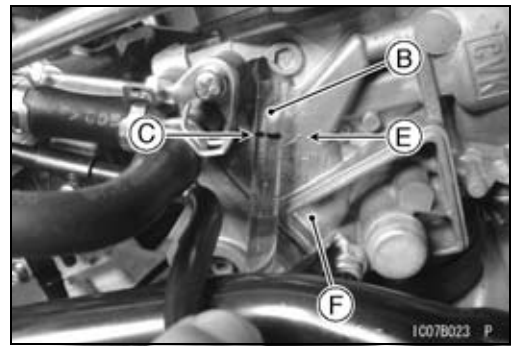
- Read the fuel level [H].

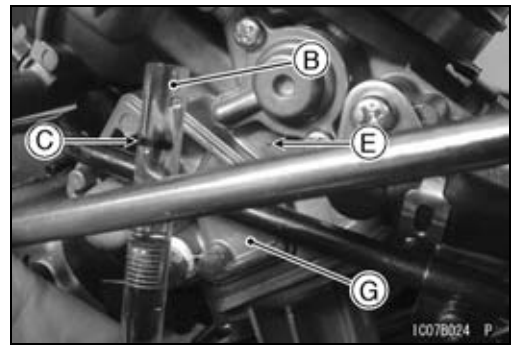
★If the fuel level is incorrect, adjust it.

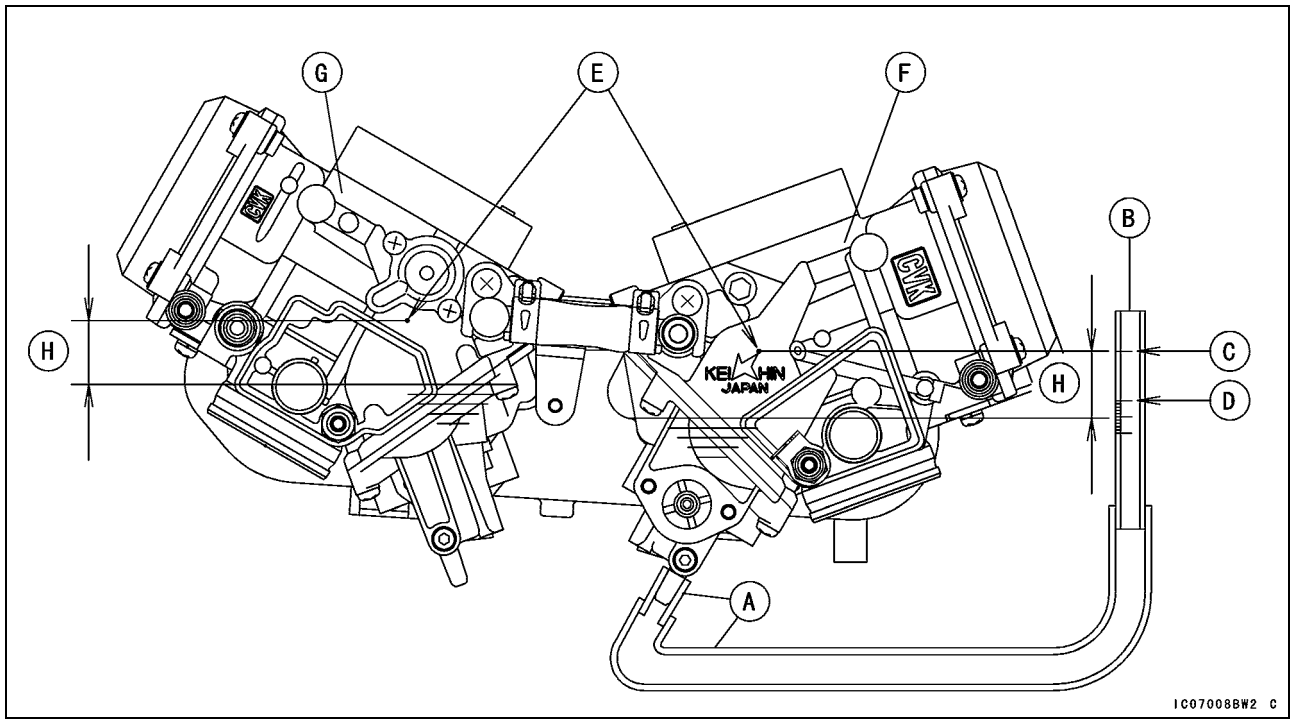
Fuel Level
Standard:

Front	**20.4 ±1 mm (0.80 ±0.04 in.) below the punch mark**
Rear	**19.5 ±1 mm (0.77 ±0.04 in.) below the punch mark**









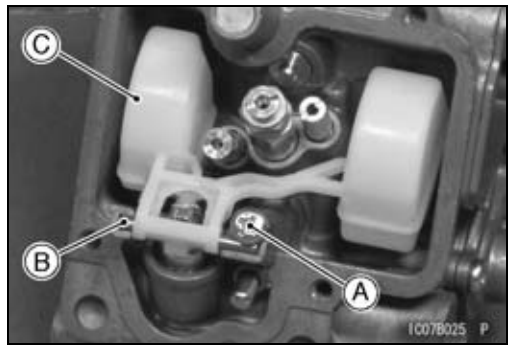
- Stop the engine.
- Tighten the drain screw.
- Repeat the same procedure for the other carburetor.

Carburetor

Service Fuel Level Adjustment

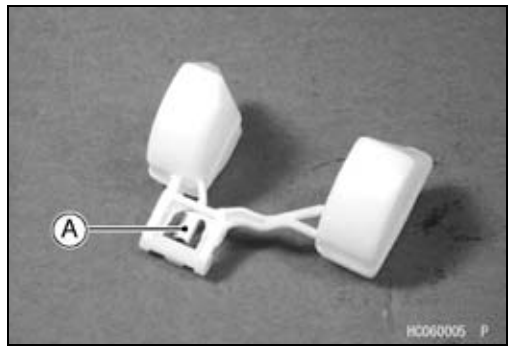
⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition switch to OFF. Do not smoke. Make sure the area is well-ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

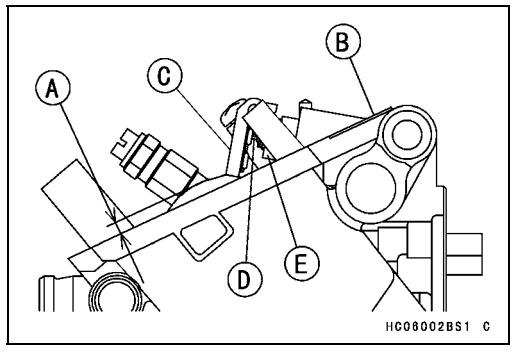


- Remove the carburetors, and drain the fuel.
- Remove the float chamber.
- Remove the screw [A].
- Slide out the pivot pin [B] and remove the float [C].

- Bend the tang [A] on the float arm very slightly to change the float height.



Float Height
Standard: 2.9 ±1 mm (0.11 ±0.04 in.)

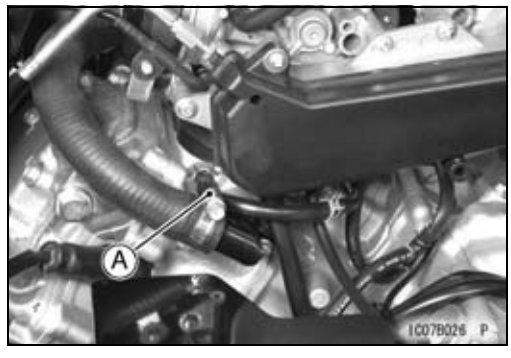


○Measure the float height [A] from the mating surface [B] of float by tilting the carburetor so that the tang of the float [C] just touches the needle rod [D]. At this time, the float valve [E] rod must not be depressed.
○Increasing the float height lowers the fuel level and decreasing the float height raises the fuel level.
- Assemble the carburetor and recheck the fuel level.

★If the fuel level cannot be adjusted by this method, the float or the float valve is damaged.

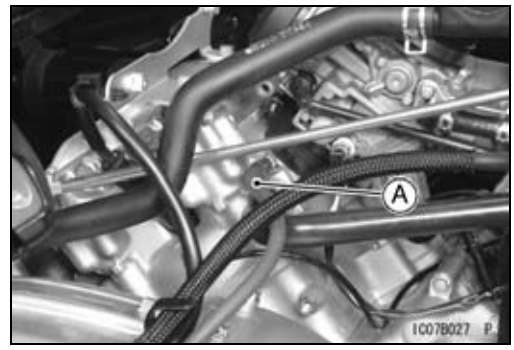
Carburetor Synchronization Inspection

- Remove:
  Engine Upper Cover (see Engine Upper Cover Removal in the Frame chapter)
  Throttle Link Case Cover
- Check idle speed.
- Remove the front vacuum hose [A] and install the vacuum hose for vacuum gauge.



Carburetor

- Remove the rear vacuum hose [A] and install the vacuum hose for vacuum gauge.

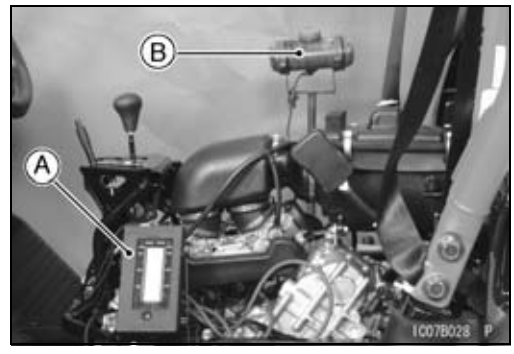


- Connect:
  Vacuum Gauge [A]

  Special Tool - Vacuum Gauge: 57001-1369
- Connect the fuel hose of a suitable fuel tank [B] to the carburetor.
- Start the engine and read the intake vacuum of each carburetor when idling.

★If the vacuum is out of the specified range, adjust it.

Carburetor Synchronization Vacuum
Standard: Less than 2.7 kPa (2 cmHg) difference between carburetors



Carburetor Synchronization Adjustment

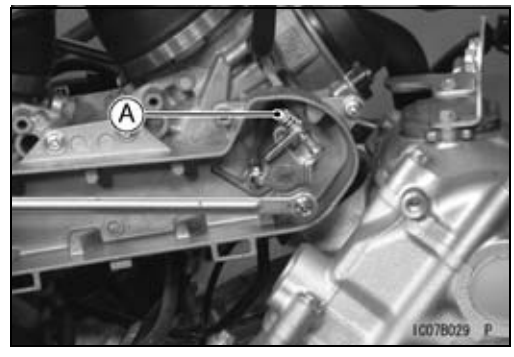
- Turn the adjust screw [A] to synchronize the carburetors.

★If the carburetor synchronization cannot be obtained by using the adjusting screw, check for dirt or blockage, and then check the pilot screw settings.

- Check the carburetor synchronization again.

NOTE

○*Do not turn the pilot screws carelessly during carburetor synchronization. You may cause poor running at low engine speed.*



- Check idle speed.

Fuel System Cleanliness Inspection

- Refer to the Fuel System Cleanliness Inspection in the Periodic Maintenance chapter.

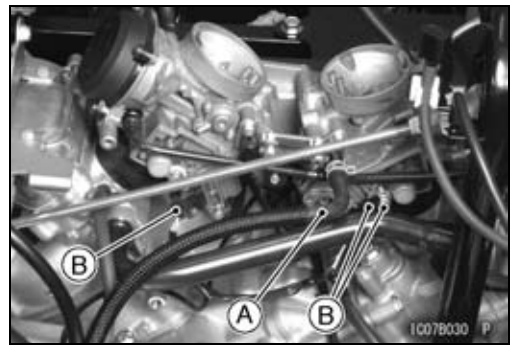
Carburetor Removal

⚠ WARNING

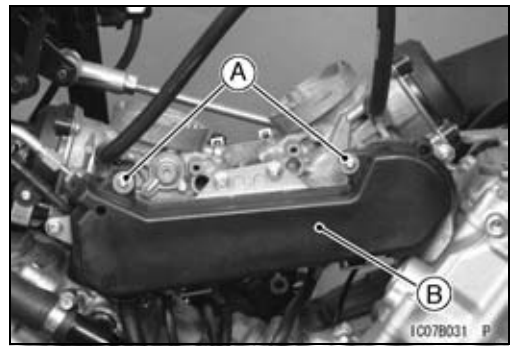
Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition switch OFF. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

Carburetor

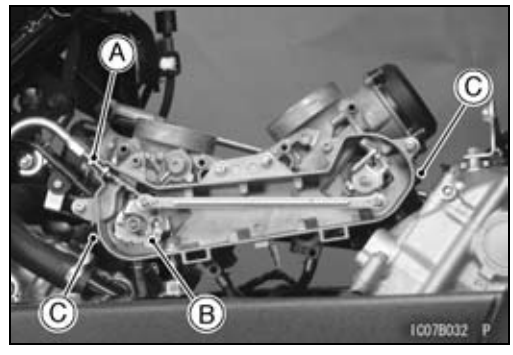
- Remove:
  Air Cleaner Housing Duct (see Air Cleaner Housing and Duct Removal)
- Drain the fuel from the carburetors.
- Remove:
  Fuel Hose [A]
  Heater and Ground Lead Connectors [B]



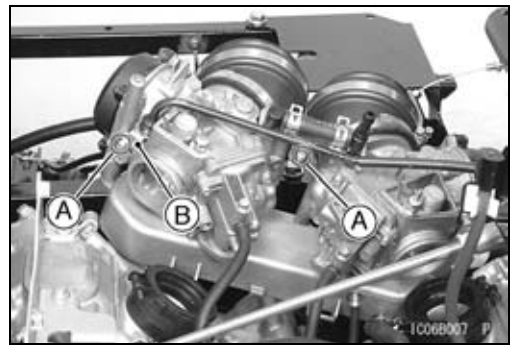
- Remove:
  Screws [A] and Throttle Link Case Cover [B]



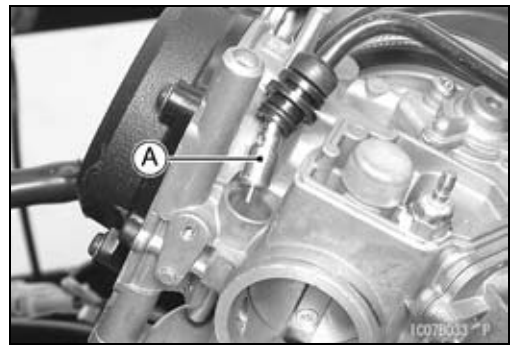
- Remove:
  Throttle Cable Locknut [A]
  Throttle Cable Lower End [B]
- Loosen the carburetor clamp screws [C].
- Remove the carburetor out of the frame.



- Remove:
  Screw [A]
  Holder Plate [B]

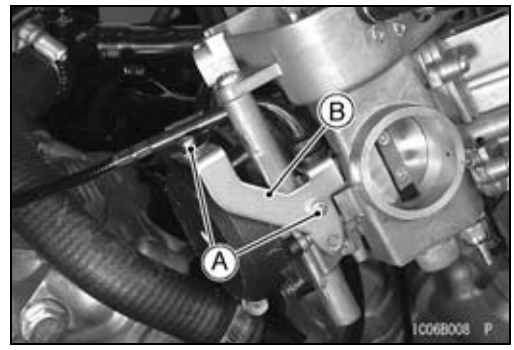


- Remove:
  Choke Plunger [A]

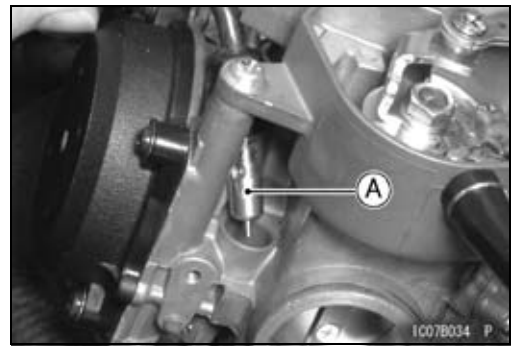


Carburetor

● Remove:
Screws [A]
Holder Plate [B]



● Remove:
Choke Plunger [A]

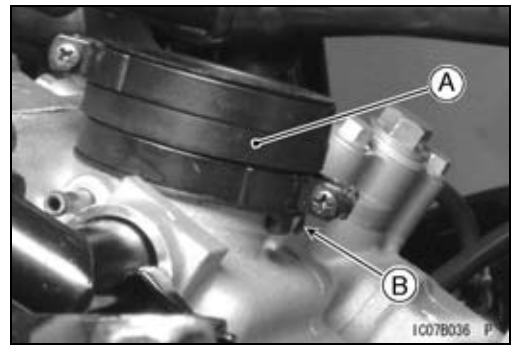


Carburetor Installation

● Confirm the groove of the carburetor holder [A] fits on the projection [B] of the cylinder head.
● Tighten:

Torque - Throttle Cable Locknut: 4.4 N·m (0.45 kgf·m, 39 in·lb)

● Check fuel leakage from the carburetors.



⚠ WARNING

Fuel spilled from the carburetors is hazardous.

● Adjust the idle speed (see Idle Speed Adjustment in the Periodic Maintenance chapter).
● Check the throttle cable (see Throttle Pedal Free Play Inspection in the Periodic Maintenance chapter).

Carburetor Disassembly

● Remove the carburetors (see Carburetor Removal).

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition switch to OFF. Do not smoke. Make sure the area is well-ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

NOTE

○*The carburetors can be disassembled in the joined state.*

● Do not remove the pilot screw if possible.
○When removing it, refer to the Pilot Screw Adjustment.

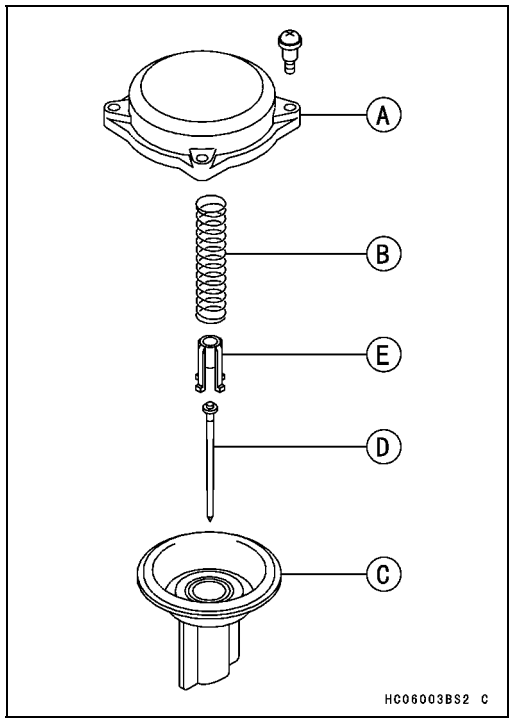
Carburetor

- Remove the upper chamber cover [A], spring [B], and vacuum piston [C].

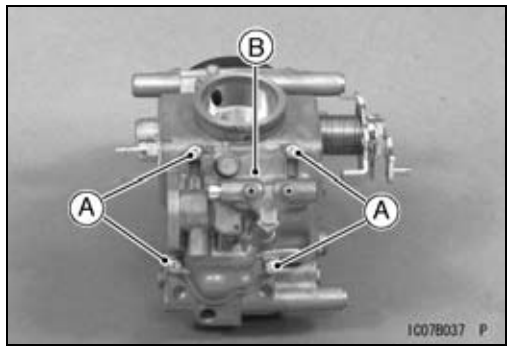
CAUTION

During carburetor disassembly, be careful not to damage the diaphragm. Never use a sharp edge to remove the diaphragm.

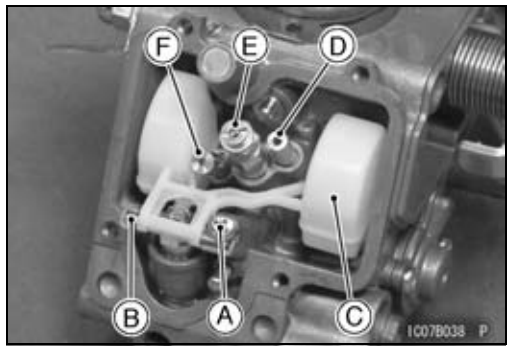
- Remove the jet needle [D] from the vacuum piston. These can be detached together with the spring seat [E].



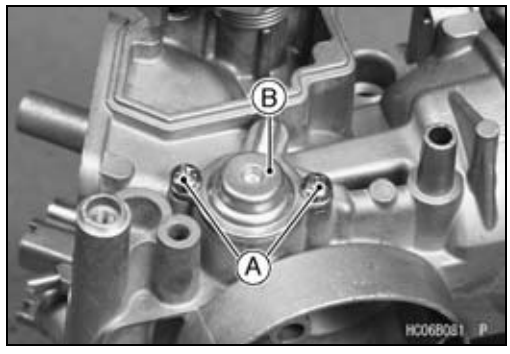
- Remove:
  Screws [A]
  Float Chamber [B]



- Remove:
  Screw [A]
  Float Pivot Pin [B], Float [C], and Float Needle Valve
  Pilot Jet [D]
  Main Jet [E]
  Starter Jet [F]

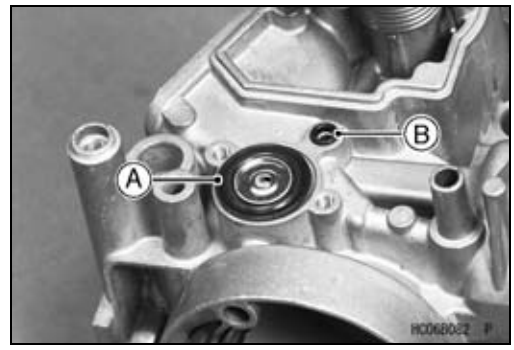


- Remove:
  Screws [A]
  Coasting Enricher Cover [B]



Carburetor

- Remove:
  Diaphragm [A]
  O-ring [B]



Carburetor Assembly

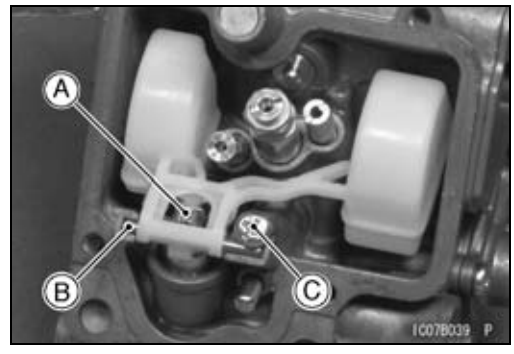
⚠ WARNING

Fuel spilled from the carburetors is hazardous.

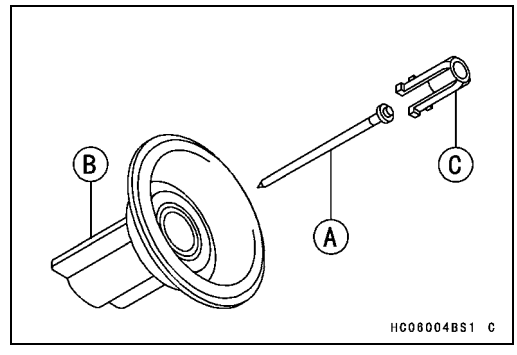
CAUTION

Do not apply force to the jet or overtighten it, or this could damage the jet or the carburetor body, requiring replacement.

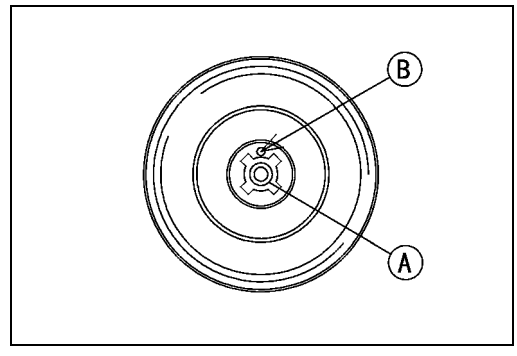
- Before assembling the carburetor, replace the O-rings with new ones.
- Install the float valve needle in the valve seat and hook the needle hanger [A] onto the float tang.
- Insert the float pivot pin [B] into the pivot post and the float.
- Tighten the screw [C].
- Set the float to the standard height (see Service Fuel Level Adjustment).



- Insert the jet needle [A] into the hole in the center of the vacuum piston [B], and place the spring seat [C] over the needle.

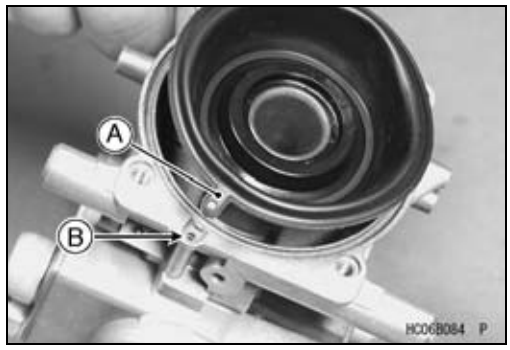


- Slip the needle through the hole in the center of the vacuum piston, and put the spring seat [A] on the top of the needle. Turn the seat so that it does not block the hole [B] at the bottom of the vacuum piston.
- After installing the upper chamber cover, check that the vacuum piston slides up and down smoothly without binding in the carburetor bore.



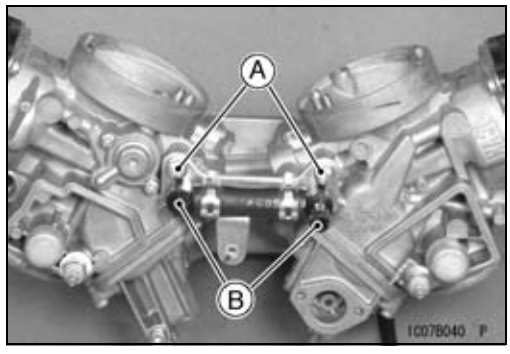
Carburetor

- Fit the projection [A] of the vacuum piston diaphragm in the recess [B] of the body.
- After installing the upper chamber cover, check to make sure that the vacuum piston moves smoothly in the carburetor body.

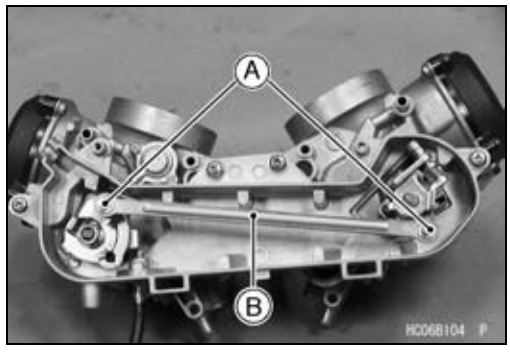


Carburetor Separation

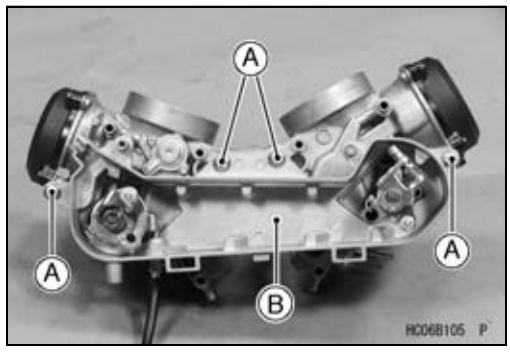
- Remove:
  Carburetor (see Carburetor Removal)
  Screws [A]
  Fuel Hose Fittings [B]



- Remove:
  Cotter Pins [A], Collars and Washers
  Link Arm [B]

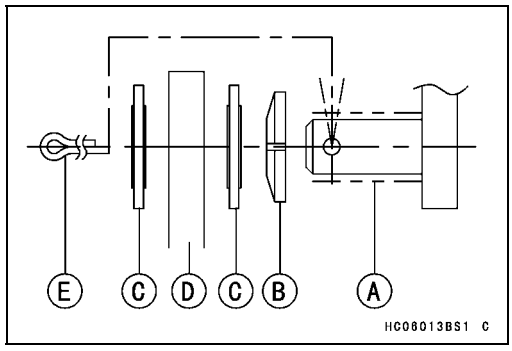


- Remove:
  Link Case Screws [A]
  Link Case [B]
- Separate the Carburetors.



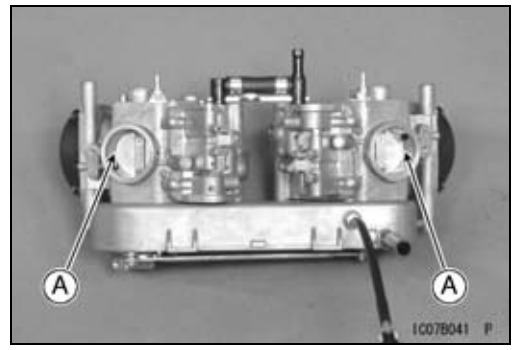
Carburetor Joining

- Install link case and tighten link case screws.
- Apply grease to the link pins [A].
- Install the link arm as shown.
  Washers [B]
  Collars [C]
  Link Arm [D]
  Cotter Pins [E]
- Bend the ends of the cotter pins.
- Install the fuel hose fittings, and tighten the screws.

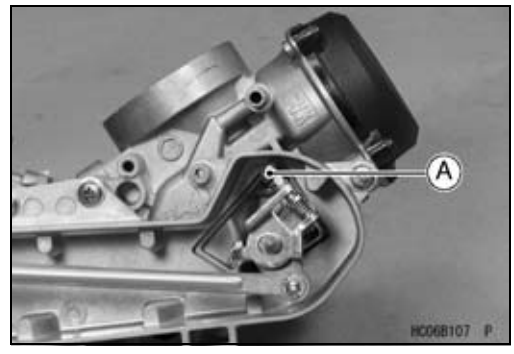


Carburetor

● Visually synchronize the throttle (butterfly) valves.
○Check to see that all throttle valves open and close smoothly without binding when turning the pulley.
○Visually check the clearance [A] between the throttle valve and the carburetor bore in each carburetor.



★If there is a difference between two carburetors, turn the balance adjusting screw [A] to obtain the same clearance.
● Install the carburetors (see Carburetor Installation).
● Adjust the synchronization (see Synchronization Adjustment).



Carburetor Cleaning

⚠ WARNING

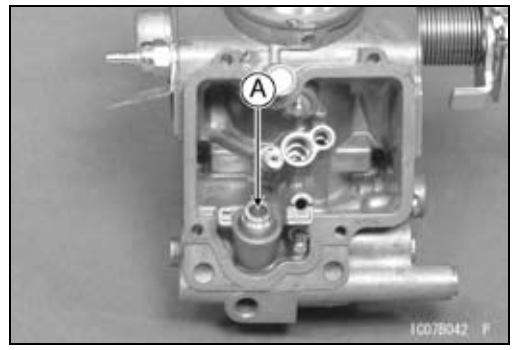
Clean the carburetor in a well-ventilated area and take care that there are no sparks or flame anywhere near the working area; this includes any appliance with a pilot light. Because of the danger of highly flammable liquids, do not use gasoline or low-flash point solvents to clean the carburetor.

CAUTION

Do not use compressed air on an assembled carburetor, the float may be crushed by the pressure, and the vacuum piston diaphragm may be damaged.
Remove as many rubber or plastic parts from the carburetor as possible before cleaning the carburetor with a cleaning solution. This will prevent damage or deterioration of the parts.
The carburetor body has plastic parts that cannot be removed. Do not use a strong carburetor cleaning solution which could attack these parts; instead, use a mild high-flash point cleaning solution safe for plastic parts.
Do not use wire or any other hard instrument to clean carburetor parts, especially jets, as they may be damaged.

Carburetor

- Disassemble the carburetor and clean all the metal parts in a carburetor cleaning solution.
- Rinse the parts in water and dry them with compressed air.
- Blow through the air and fuel passages with compressed air.
- Remove the float valve, spray cleaning solution from the valve seating surface into the fuel passage, and clean the strainer (press-fitted) with compressed air [A].
- Assemble the carburetor (see Carburetor Assembly).



Carburetor Inspection

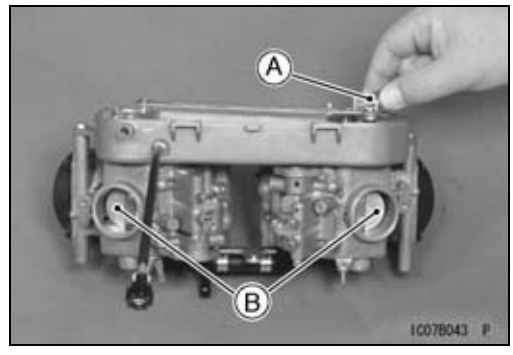
⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition switch OFF. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

- Remove the carburetor (see Carburetor Removal).
- Before disassembling the carburetors, check the fuel level (see Fuel Level Inspection).

- Turn the throttle cable pulley [A] to check that the throttle butterfly valves [B] move smoothly and return back with the spring tension.

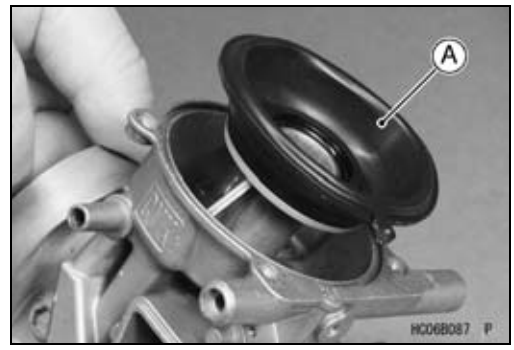
★If the throttle valves do not move smoothly, replace the carburetor.

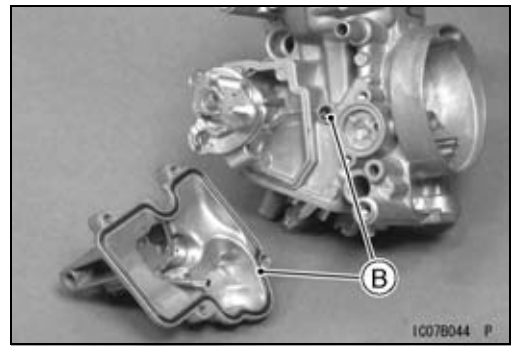


Carburetor

- Disassemble the carburetors (see Carburetor Disassembly).
- Clean the carburetor (see Carburetor Cleaning).
- Check the vacuum piston diaphragm [A], and the O-rings [B] on the float bowl, pilot screw, coasting enricher, and choke plunger cap.

★If any of the diaphragm or O-rings are not in good condition, replace them.



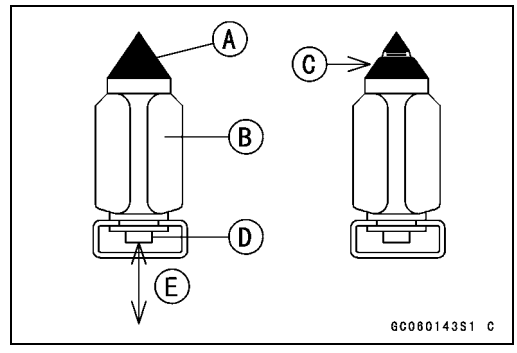


- Check the plastic tip [A] of the float valve needle. It should be smooth, without any grooves, scratches, or tears.

★If the plastic tip is damaged [C], replace the float valve [B].

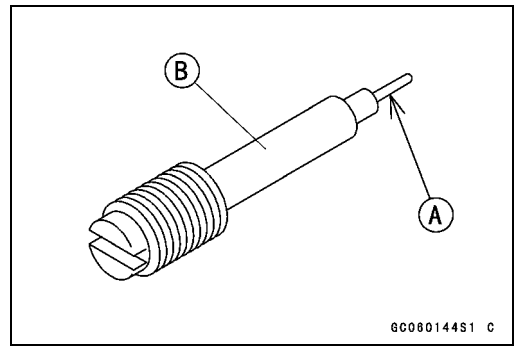
- Push the rod [D] in the other end of the float valve needle and then release it [E].

★If it does not spring out, replace the float valve.



- Check the tapered portion [A] of the pilot screw [B] for wear or damage.

★If the pilot screw is worn or damaged on the tapered portion, it will prevent the engine from idling smoothly. Replace it.



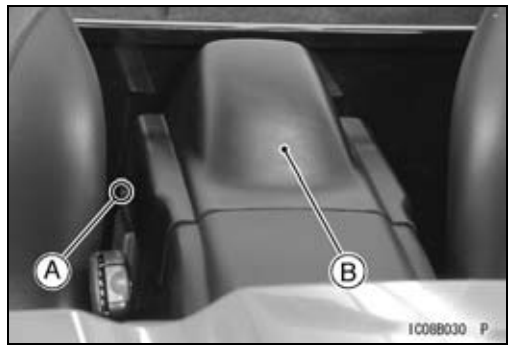
- Check that the vacuum piston moves smoothly in the carburetor body. The surface of the piston must not be excessively worn.

★If the vacuum piston does not move smoothly, or if it is very loose in the carburetor body, replace both the body and the vacuum piston.

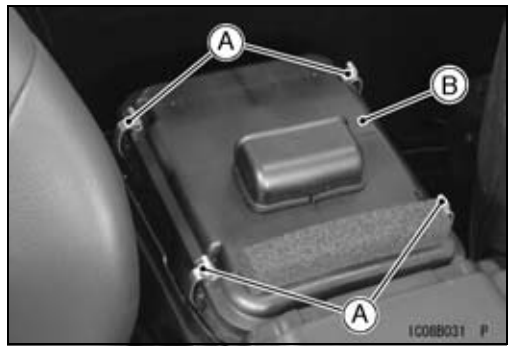
Air Cleaner

Air Cleaner Element Removal

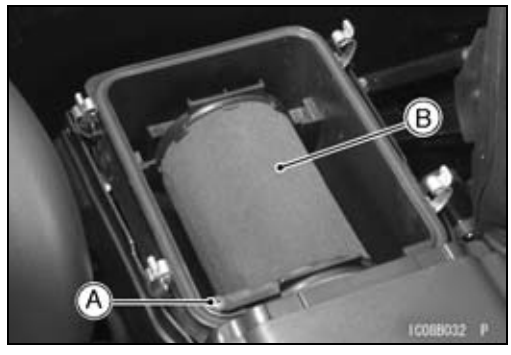
- Remove:
  Quick Rivets [A] (both sides)
  Air Cleaner Top Cover [B]



- Remove:
  Clips [A]
  Air Cleaner Housing Cap [B]



- Remove:
  Element Holder Screw [A]
  Element Assembly [B]
- After removing the element, stuff pieces of lint-free, clean cloth into the air cleaner ducts to keep dirt out of the carburetor and engine.



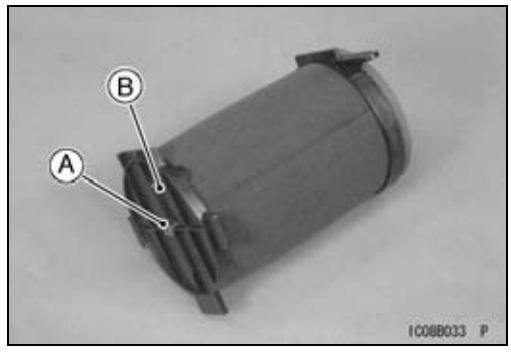
⚠ WARNING

If dirt or dust is allowed to pass through into the carburetors, the throttle may become stuck, possibly causing an accident.

CAUTION

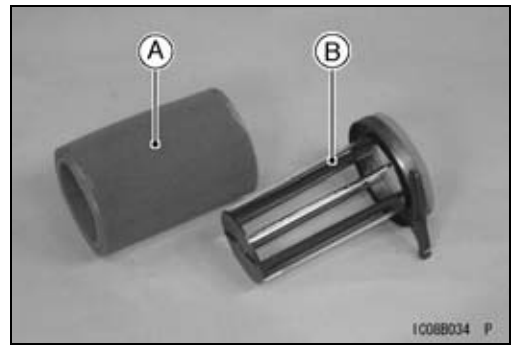
If dirt gets through into the engine, excessive engine wear and possibly engine damage will occur.

- Remove:
  Element Cover Screw [A]
  Element Cover [B]



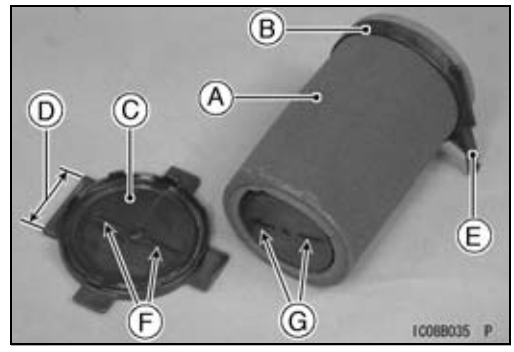
Air Cleaner

- Remove:
  Element [A]
  Element Holder [B]



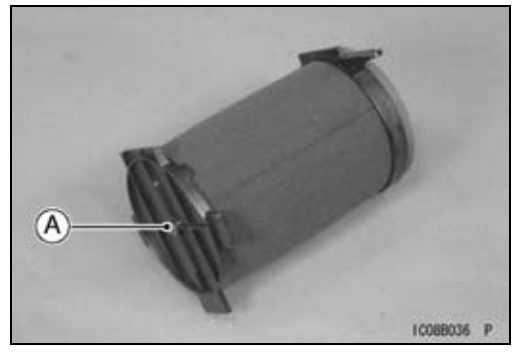
Air Cleaner Element Installation

- Install:
  Element [A]
  Element Holder [B]
- Install the element cover [C] so that the wider side [D] faces projection [E] of the holder and fit the slits [F] onto the projections [G].

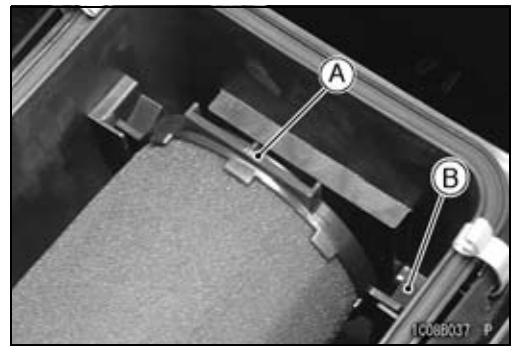


- Tighten:

Torque - Element Cover Screw [A]: 4.5 N·m (0.46 kgf·m, 40 in·lb)



- Push down the element holder [A] until it is bottomed into the housing [B] as shown.



- Tighten:

Torque - Element Holder Screw: 4.5 N·m (0.46 kgf·m, 40 in·lb)

- Install the air cleaner housing cap and fit the clips.

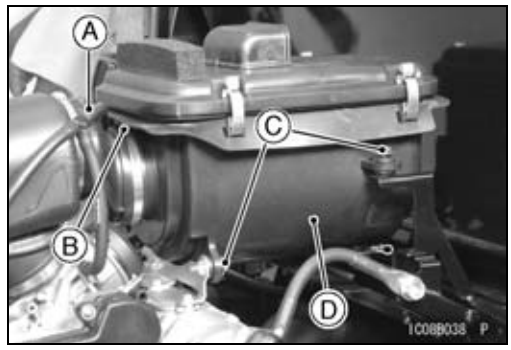
Air Cleaner Element Cleaning and Inspection

- Refer to the Air Cleaner Element Cleaning and Inspection in the Periodic Maintenance chapter.

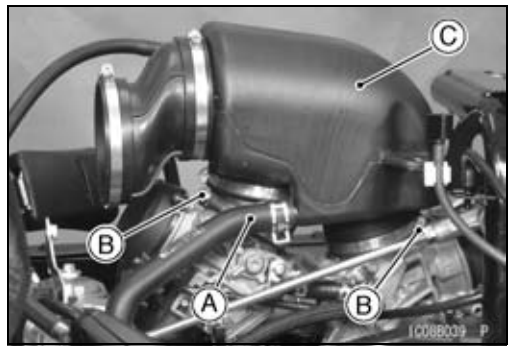
Air Cleaner

Air Cleaner Housing and Duct Removal

- Remove:
  Engine Upper Cover (see Engine Upper Cover Removal in the Frame chapter)
  Breather Hose [A]
- Loosen the clamp screw [B].
- Remove:
  Air Cleaner Mounting Bolts [C] (both sides)
  Air Cleaner Housing [D]

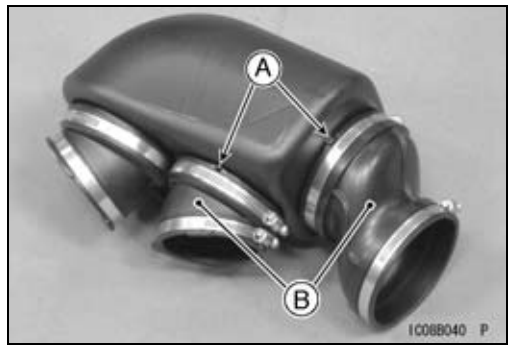


- Remove:
  Breather Hose [A] and Clamp
- Loosen:
  Clamp Screws [B]
  Air Cleaner Duct [C]

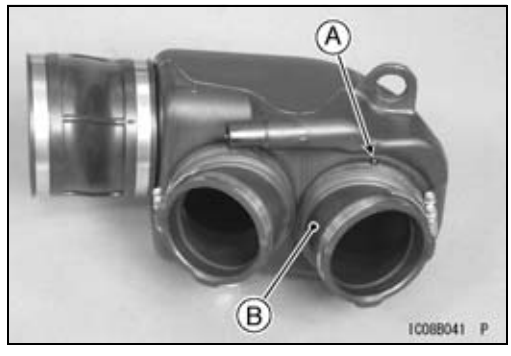


Air Cleaner Housing and Duct Installation

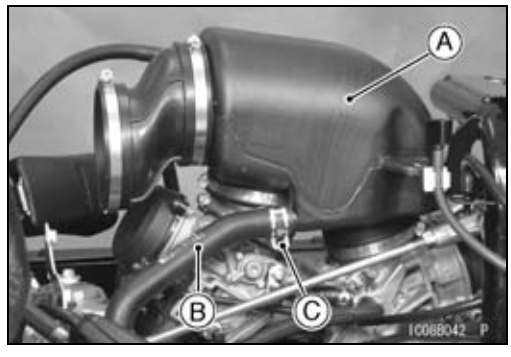
- Fit the projections [A] of the duct into the slits of the rubber ducts [B], and tighten the clamp screws.



- Fit the projection [A] of the duct into the slit of the rubber duct [B], and tighten the clamp screw.



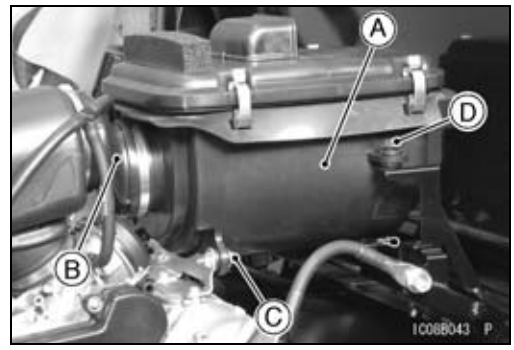
- Install the air cleaner duct assembly [A] to the carburetor.
- Tighten the clamp screws.
- Install:
  Breather Hose [B] and clamp [C]



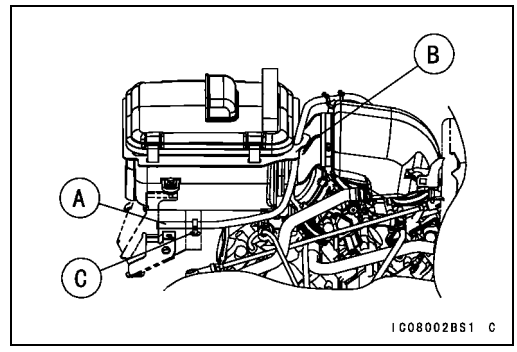
Air Cleaner

- Install the air cleaner housing [A] to the rubber duct [B].
- Apply a non-permanent locking agent:
  Air Cleaner Mounting Bolts [C] (Front) L = 27.5 mm (1.08 in.)
  Air Cleaner Mounting Bolts [D] (Rear) L = 28.7 mm (1.13 in.)
- Tighten:

Torque - Air Cleaner Mounting Bolts: 8.8 N·m (0.90 kgf·m, 78 in·lb)



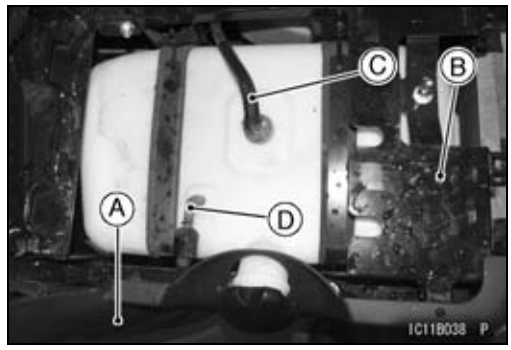
- Insert the breather hose [A] into the hole of the cover [B] and clamp [C].



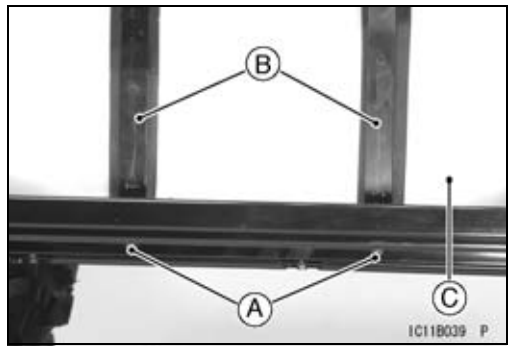
Fuel Tank

Fuel Tank Removal

● Remove:
Right Side Cover [A] (see Side Cover Removal in the Frame chapter)
Right Bracket [B] (see Bracket Removal in the Frame chapter)
Fuel Hose [C]
Breather Hose [D]

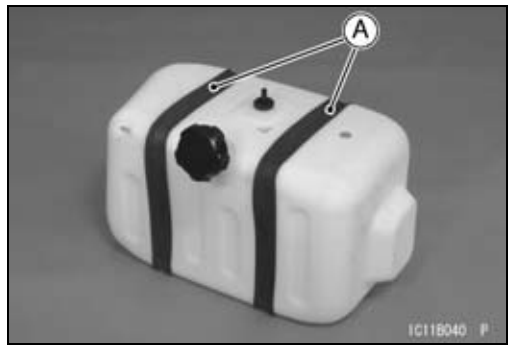


● Remove:
Bolts [A]
Bands [B]
Fuel Tank [C]

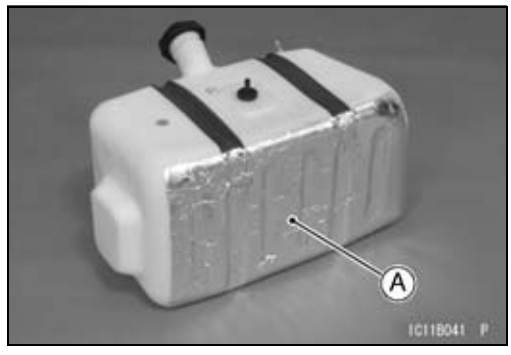


Fuel Tank Installation

● Check the dampers [A] on the fuel tank.
★If the dampers are damaged or deteriorated, replace them.

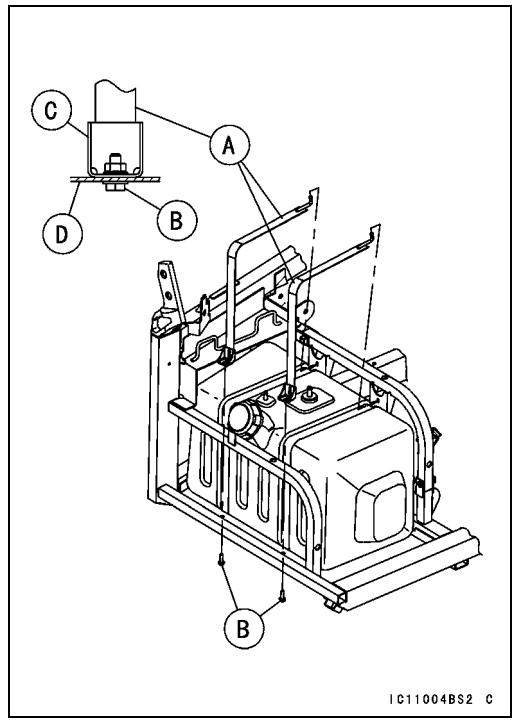


● Check the mat [A] on the fuel tank.
★If the mat is damaged or deteriorated, replace it.

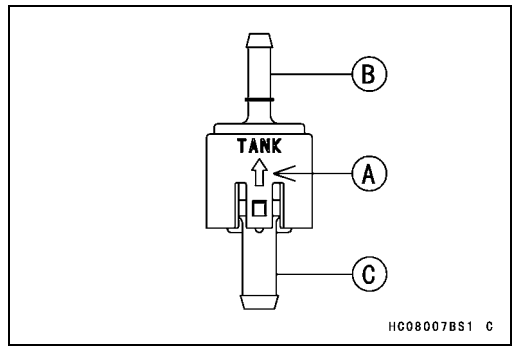


Fuel Tank

- Install:
  Fuel Tank
  Bands [A]
  Bolts [B]
- Tighten the bolts until the brackets [C] of the bands touch the frame [D].



- When installing the check valve, install it so that the arrow [A] faces fuel tank.
  [B] Black Color
  [C] Blue Color



- Install:
  Fuel Hose and Clamp
  Breather Hose and Clamp

Fuel Tank Cleaning

- Remove the fuel tank and drain it (see Fuel Tank Removal).
- Pour some high-flash point solvent into the fuel tank and shake the tank to remove dirt and fuel deposits.

⚠ WARNING

Clean the tank in a well-ventilated area, and take care that there is no spark or flame anywhere near the working area; this includes any appliance with a pilot light. Because of the danger of highly flammable liquids, do not use gasoline or low-flash point solvents to clean the tank. A fire or explosion could result.

- Pour the solvent out the tank.
- Dry the tank with compressed air.
- Install the fuel tank (see Fuel Tank Installation).

Fuel Pump

Fuel Pump Removal

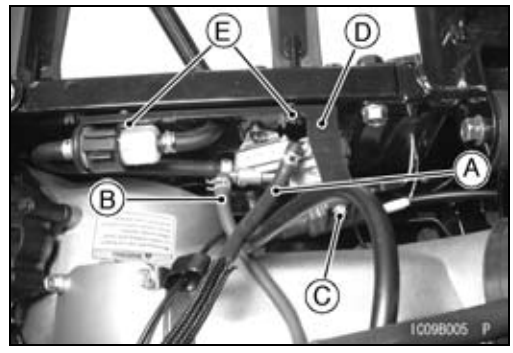
CAUTION

Never drop the fuel pump, especially on a hard surface. Such a shock to the pump can damage it.

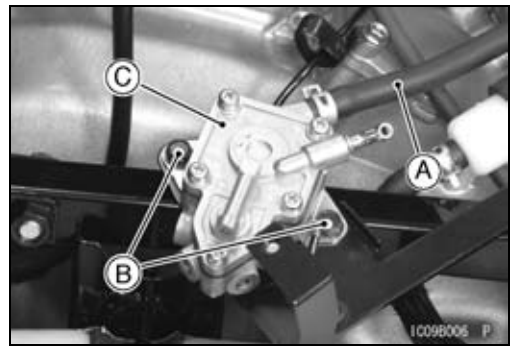
⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. Make sure the area is well-ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Do not smoke. Turn the ignition switch OFF. Disconnect the battery (–) terminal.
To make fuel spillage minimum, draw the fuel out from the fuel tank when the engine is cold. Be prepared for fuel spillage; any spilled fuel must be completely wiped up immediately.

- Remove:
  Right Seat (see Seat Removal in the Frame chapter)
  Fuel Hose [A] (outlet)
  Vacuum Hose [B]
  Bolt [C] and Ignition Coil (from Bracket [D])
  Fuel Pump Bracket Bolts [E] and Bracket



- Remove:
  Fuel Hose [A] (inlet)
  Fuel Pump Mounting Bolts [B]
  Fuel Pump [C]

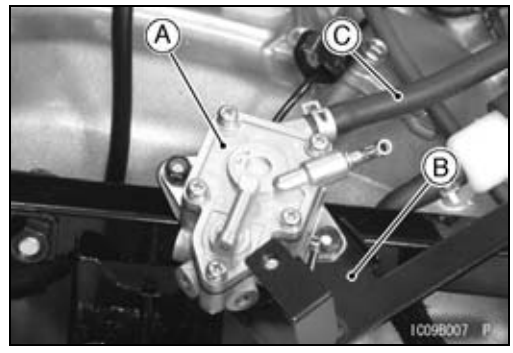


Fuel Pump Installation

- Install the fuel pump [A] to the bracket [B].
- Tighten:

  Torque - Fuel Pump Mounting Bolts: 8.8 N·m (0.90 kgf·m, 78 in·lb)

- Install the fuel hose [C] (to fuel filter) and clamp as shown in the figure.



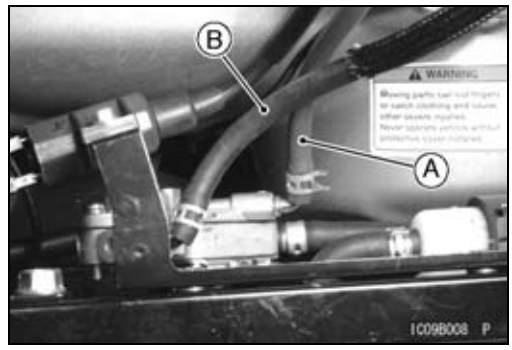
Fuel Pump

- Install the bracket to the frame.
- Tighten:

Torque - Fuel Pump Bracket Bolts: 8.8 N·m (0.90 kgf·m, 78 in·lb)

- Install:
  Vacuum Hose [A] (to cylinder head) and Clamp
  Fuel Hose [B] (to carburetor) and Clamp
  Ignition Coil
- Tighten:

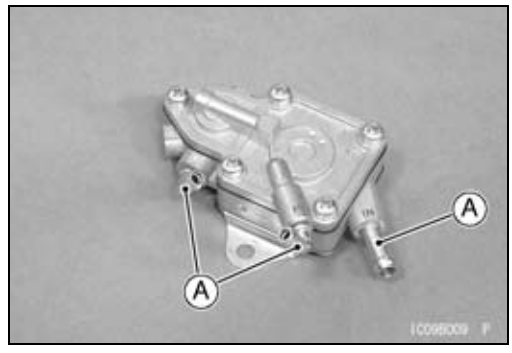
Torque - Ignition Coil Mounting Bolt: 6.9 N·m (0.70 kgf·m, 61 in·lb)



Fuel Pump Inspection

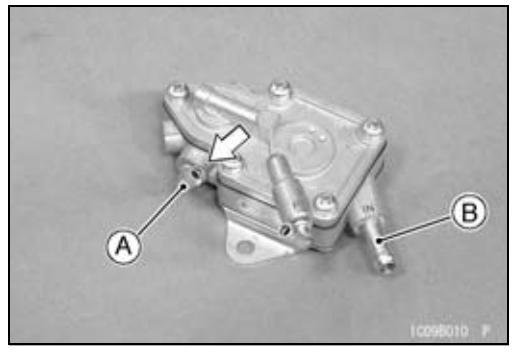
- Remove the fuel pump (see Fuel Pump Removal).

★If the hose connection areas [A] of the fittings are damaged, replace the fuel pump.



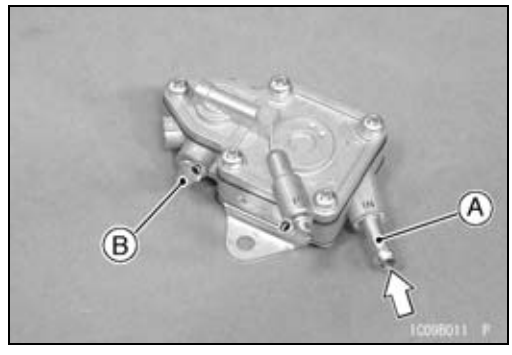
- Blow the air to the outlet fitting [A], and make sure that the blown air does not flow from the inlet fitting [B].

★If the fuel pump does not operate as described, replace it with a new one.



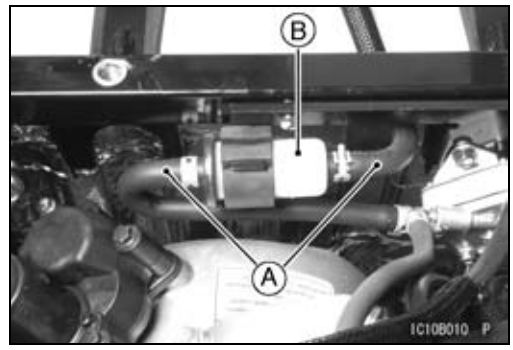
- Blow the air to the inlet fitting [A], and make sure that the blown air does not flow from the outlet fitting [B].

★If the fuel pump does not operate as described, replace it with a new one.



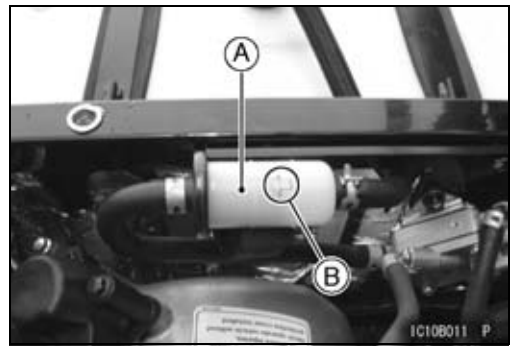
Fuel Filter

Fuel Filter Removal



- Remove:
  Right Seat (see Seat Removal in the Frame chapter)
  Fuel Hoses [A]
  Fuel Filter [B]

Fuel Filter Installation



- Install the fuel filter [A] so that the arrow [B] on it shows the fuel from the fuel tank to the fuel pump.

Fuel Filter Inspection

- Refer to the Fuel Filter Inspection in the Periodic Maintenance chapter.

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