



HONDA
CB750A

16. REAR WHEEL/ SUSPENSION/SWING ARM

SERVICE INFORMATION	16-1	● REAR WHEEL BEARING	16-6
TROUBLESHOOTING	16-2	● SWING ARM	16-7
DISASSEMBLY/ ASSEMBLY	16-3	● REAR SHOCK ABSORBER	16-8
● REAR WHEEL/ REAR BRAKE	16-4	● PARKING BRAKE	16-9
		INSPECTION	16-11

● SERVICE INFORMATION

SPECIFICATIONS

Unit: mm (in.)

Item	Standard	Service Limit
Wheel axle runout	0-0.05 (0.002)	0.2 (0.008)
Rear wheel rim runout (Axial)	0-1.0 (0-0.039)	2.0 (0.08)
(Radial)	0-1.0 (0-0.039)	2.0 (0.08)
Rear brake lining thickness	5.0 (0.20)	2.0 (0.08)
Rear brake drum I.D.	180 (7.087)	181 (7.126)
Swing arm pivot bushing I.D.	21.500-21.552 (0.8465-0.8485)	21.7 (0.854)
Swing arm center collar O.D.	21.427-21.460 (0.8436-0.8449)	21.3 (0.839)
Rear shock absorber spring free length	232.7 (9.16)	220 (8.66)

TORQUE VALUES

Listed below are the special fastener torque limits. These fasteners except the standard parts should be tightened to the torques shown below:

Rear wheel axle nut	8-10 kg-m (57.9-72.3 lbs.-ft.)
Final driven sprocket fixing nut	5.5-6.5 kg-m (39.8-47.0 lbs.-ft.)
Wheel spokes	0.3-0.4 kg-m (2.2-2.9 lbs.-ft.)
Swing arm pivot bolt	5.5-7.0 kg-m (39.8-50.6 lbs.-ft.)
Rear shock absorber	3.0-4.0 kg-m (21.7-28.9 lbs.-ft.)

SPECIAL TOOLS

Rear wheel bearing retainer wrench	07910-3930000
Rear wheel bearing retainer wrench	07910-2830000
Bearing driver attachment (6304)	07946-3710200
Bearing driver attachment (6305)	07946-3600000
Driver handle	07949-6110000
Shock absorber compressor	07959-3290000



● TROUBLESHOOTING

SYMPTOM		POSSIBLE CAUSE	
Wheel Wobbles		Distorted rim	
		Loose wheel bearing	
		Bent or loose spokes	
		Defective tire	
		Loose axle	
		Improperly adjusted chain adjuster	
		Worn swing arm pivot bushing	
Steers to One Side or Does Not Track Straight		Bent swing arm	
Poor Brake Performance		Improper adjustment	
		Worn brake shoes and drum	
		Fouled brake linings	
		Worn brake cam	
		Improper engagement between brake arm and shaft serrations	
Soft Suspension		Weak spring Shock absorbers improperly adjusted	
Hard Suspension		Defective damper Shock absorber case binding	
Suspension Noise		Loose fasteners Defective stopper rubber	
Parking Brake Not Applied		Broken or elongated parking brake cable Defective ratchet ball and/or spring; lack of lubrication	
Parking Brake Not Released			Worn ratchet case pawl Excessive play in linkage Ratchet lever rotating face damaged or lack of lubrication
Parking Brake Warning Lamp Not On		Blown bulb Defective parking brake switch Improper switch wiring (Page 2-16)	
Parking Warning Buzzer Not Sounding			Defective diode



DISASSEMBLY/ASSEMBLY

('77 Model)

(1) REAR WHEEL
Assembly/Disassembly,
Page 16-4.
COMSTAR WHEEL
('78)
Assembly/Disassembly,
Page 16-5

(2) REAR SHOCK
ABSORBER
Assembly/Disassembly,
Page 16-8.

(3) SWING ARM
Assembly/Disassembly,
Page 16-7.

3.0-4.0 kg-m
(21.7-28.9 lbs.-ft.)

8.0-10.0 kg-m
(57.9-72.3 lbs.-ft.)

(4) PARKING BRAKE
Disassembly/Assembly,
Page 16-9, 16-10.

BRAKE PEDAL
Align the punch marks on
the pedal and pedal shaft.

GREASE

('76 Model)

5.5-7.0 kg-m
(39.8-50.6 lbs.-ft.)

* After assembling, inspect the following items and adjust if necessary:

- Rear brake adjustment Page 4-19, 20
- Drive chain tension adjustment Page 4-16
- Stoplight switch adjustment Page 4-21

16 DISASSEMBLY/ ASSEMBLY

REAR WHEEL/ SUSPENSION/SWING ARM

HONDA
CB750A



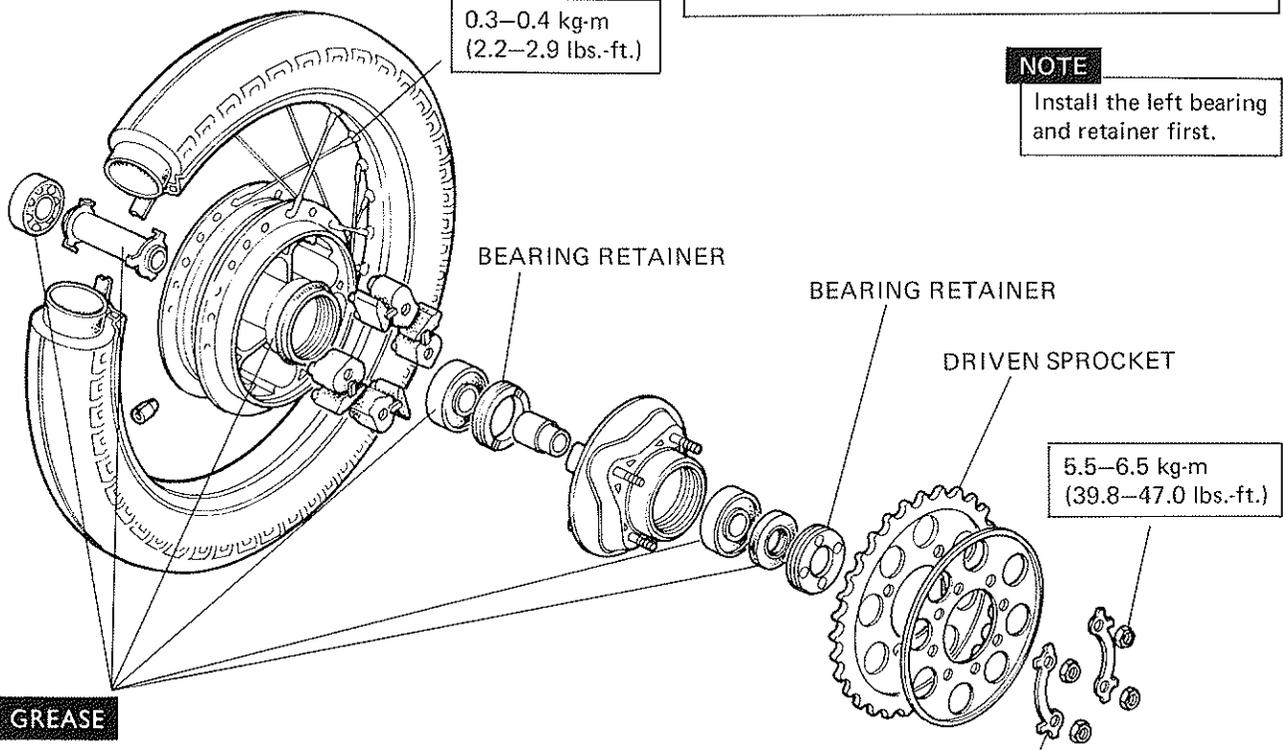
• REAR WHEEL/REAR BRAKE (’76 and ’77 Models)

WARNING

Do not get grease on the brake lining or drum.

NOTE

Install the left bearing and retainer first.



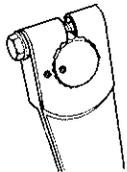
1.8-2.5 kg-m
(13.0-18.1 lbs.-ft.)

BRAKE PANEL

BRAKE SHOE

BRAKE ARM

NOTE



Align the punch marks.

GREASE



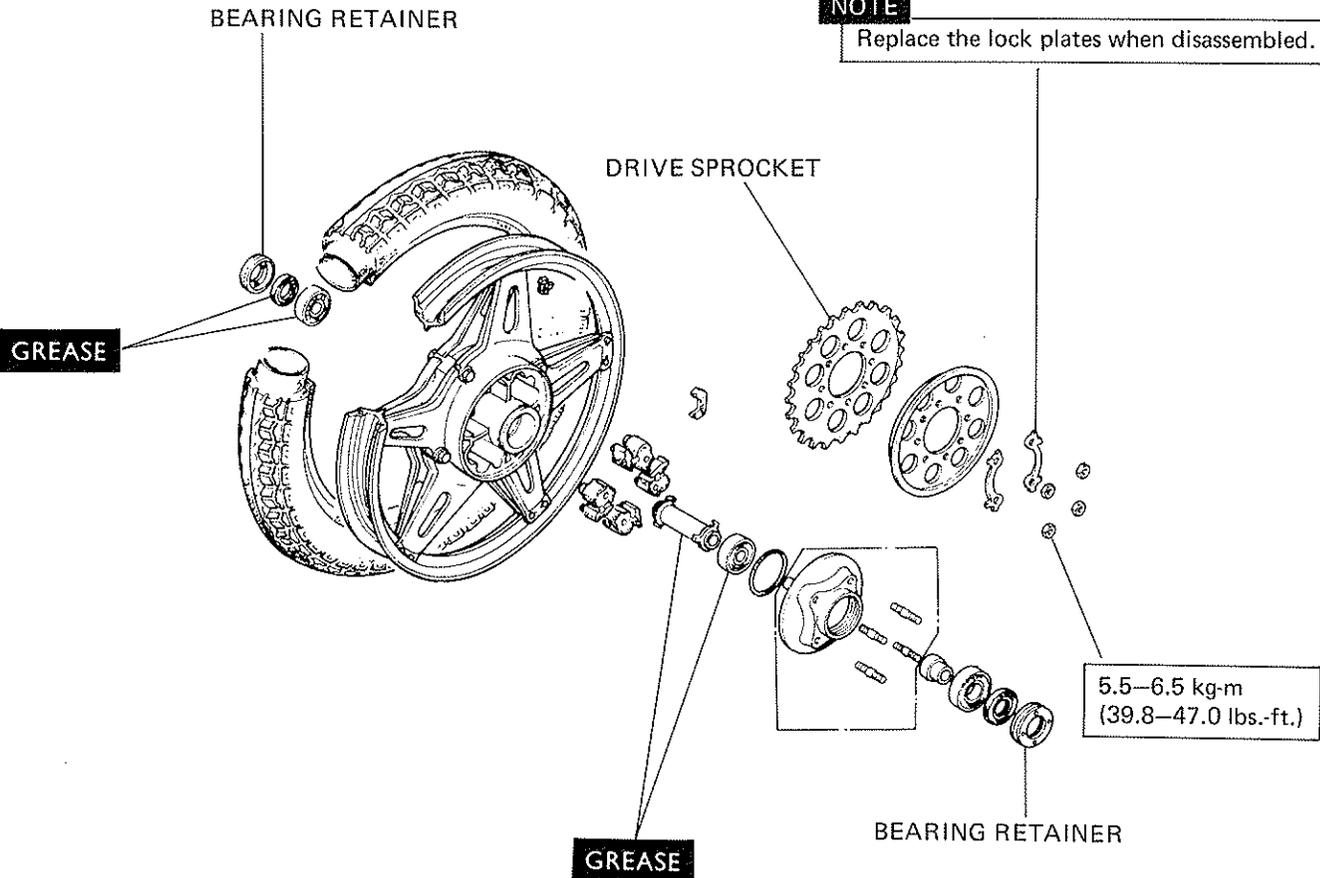
● REAR WHEEL ('78 Model)

NOTE

Install the right bearing and retainer first.

WARNING

Do not get grease or oil on the brake shoes or drum.



NOTE

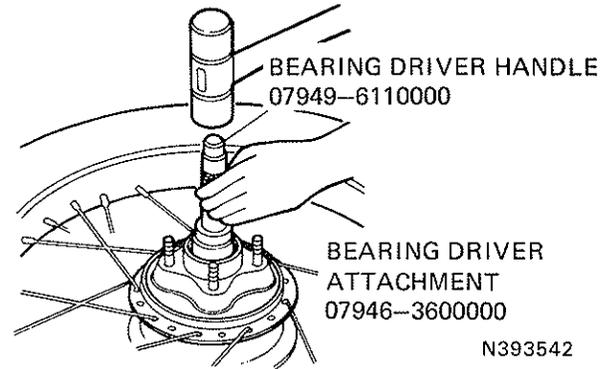
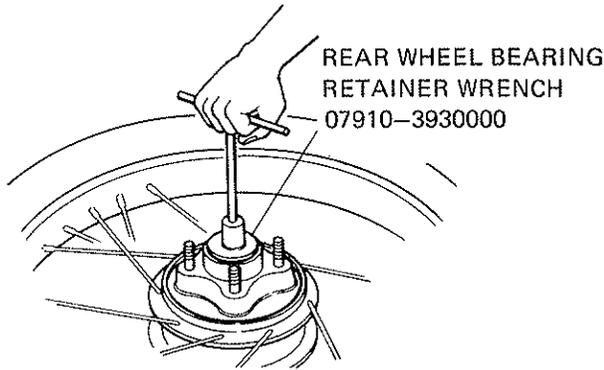
A rim band is not used for the COMSTAR Wheel.



- REAR WHEEL BEARING
- FINAL DRIVEN FLANGE

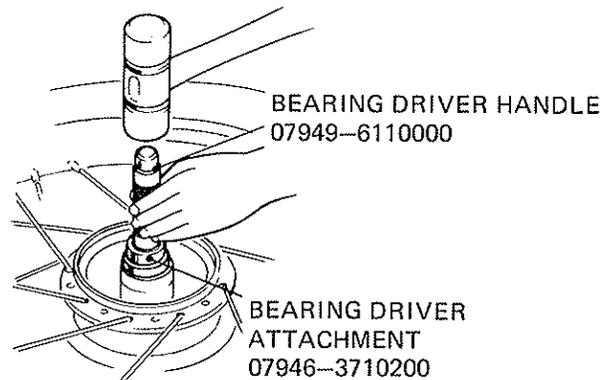
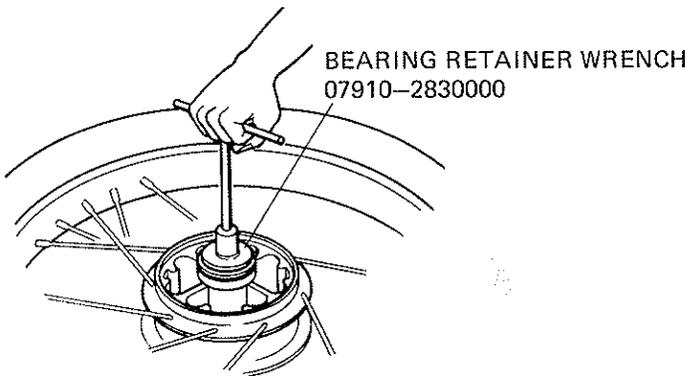
NOTE

Install the bearing with the sealed side outward and drive it squarely.



- Inspect the retainer and replace if cross threaded.
- After installing a new retainer, stake at two places.

• REAR WHEEL HUB



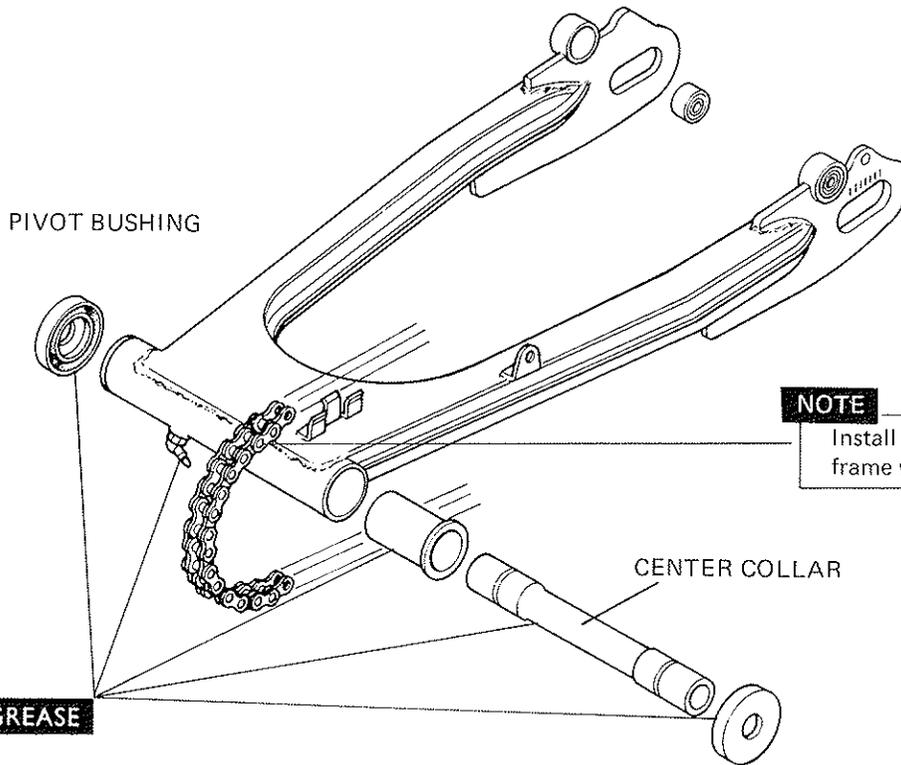
- Inspect the retainer and replace if cross threaded.
- After installing a new retainer, stake at two places.

Install the bearing on the retainer side and retainer first, then install the distance collar and right bearing.

- Install the bearing with the sealed end facing outward and drive it squarely.
- Do not tilt the distance collar during operation.



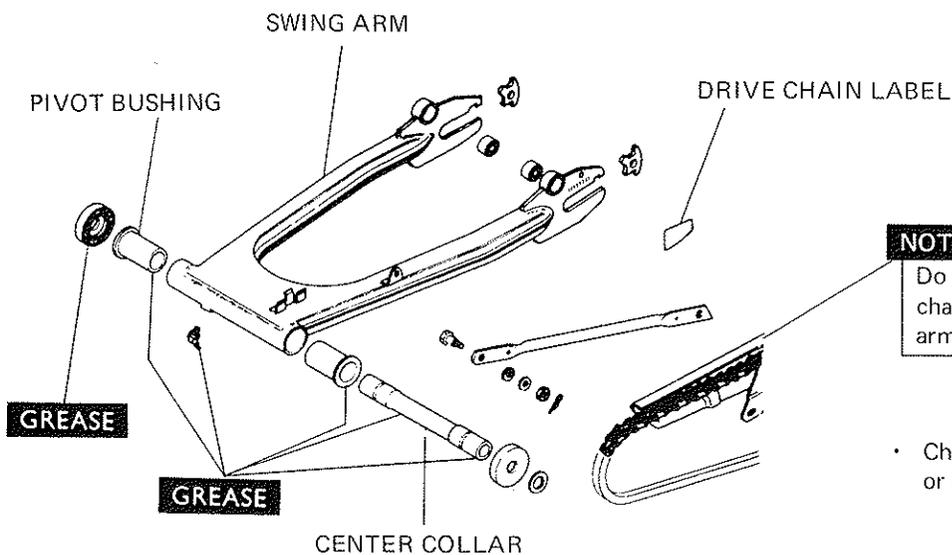
• SWING ARM
('76 Model)



S393577

- Check the swing arm for bending or cracks.

('77 and '78 Models)



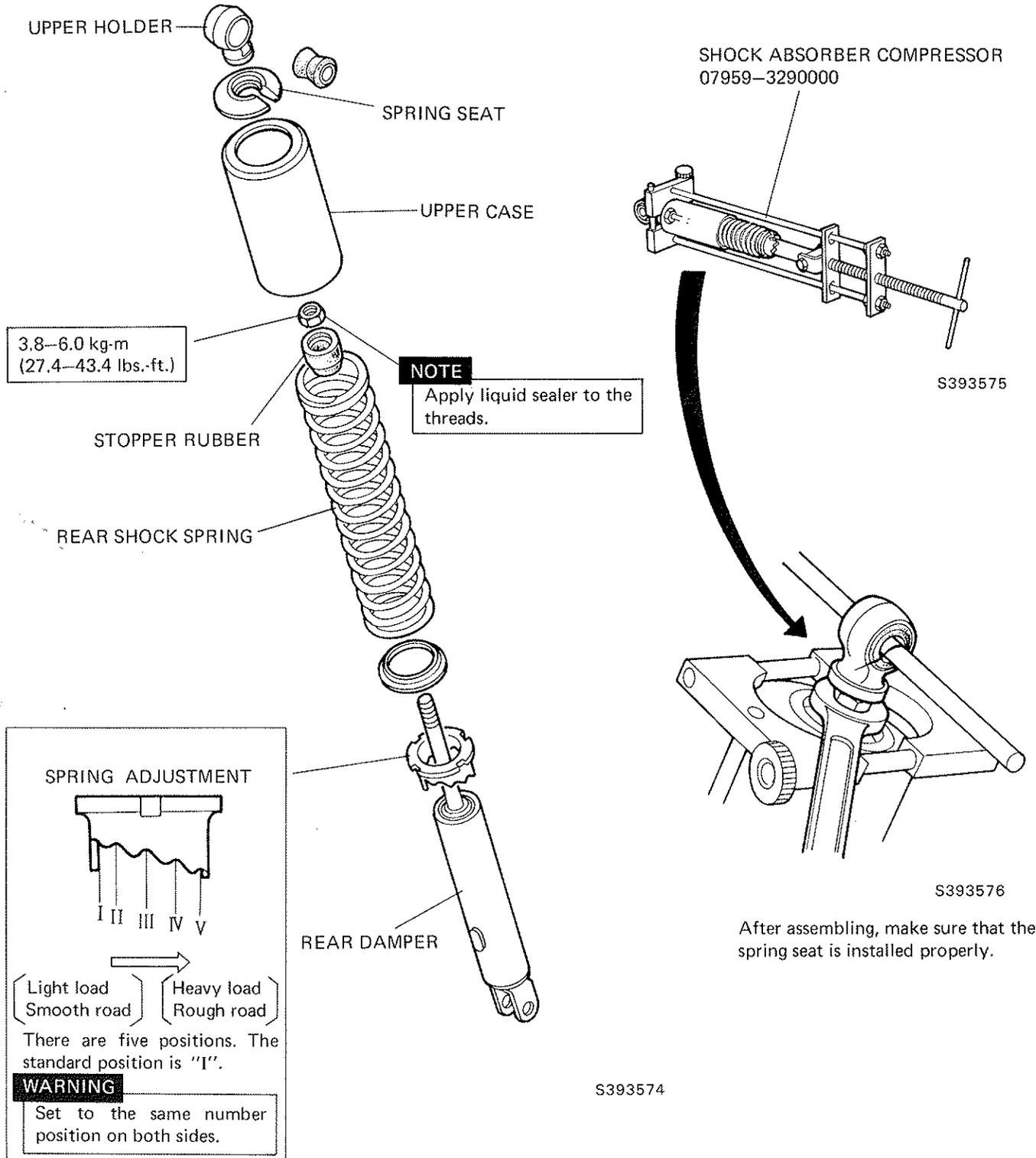
NOTE
Do not forget to install the drive chain when installing the swing arm on the frame.

- Check the swing arm for bending or cracks.



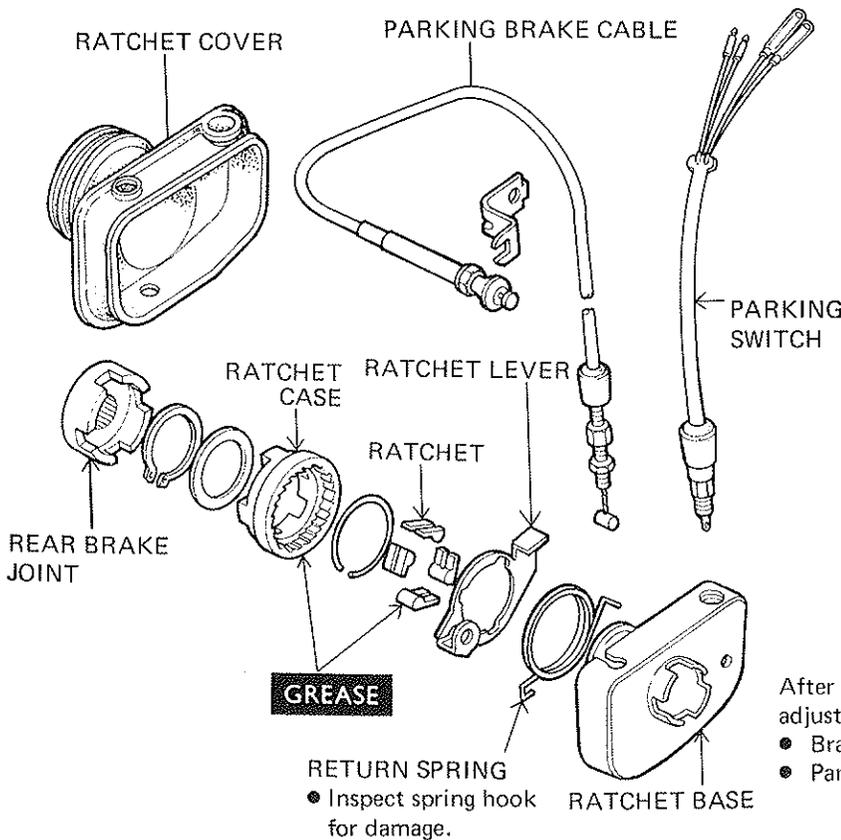
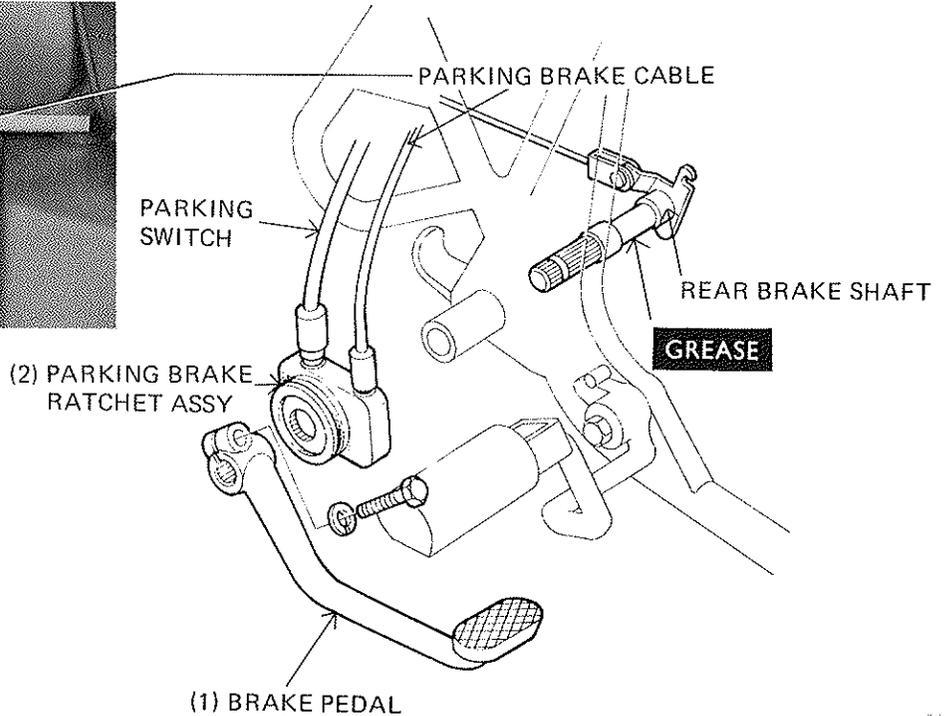
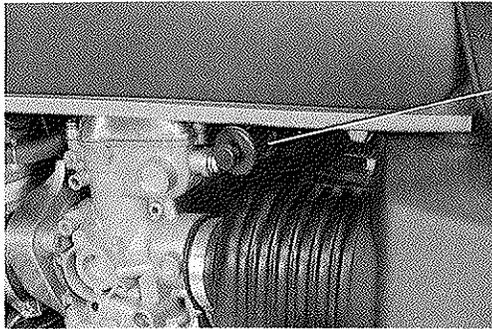
• REAR SHOCK ABSORBER

(1) Set the rear shock absorber in the tool as shown and remove the lock nut.





● PARKING BRAKE SYSTEM ('76 Model)

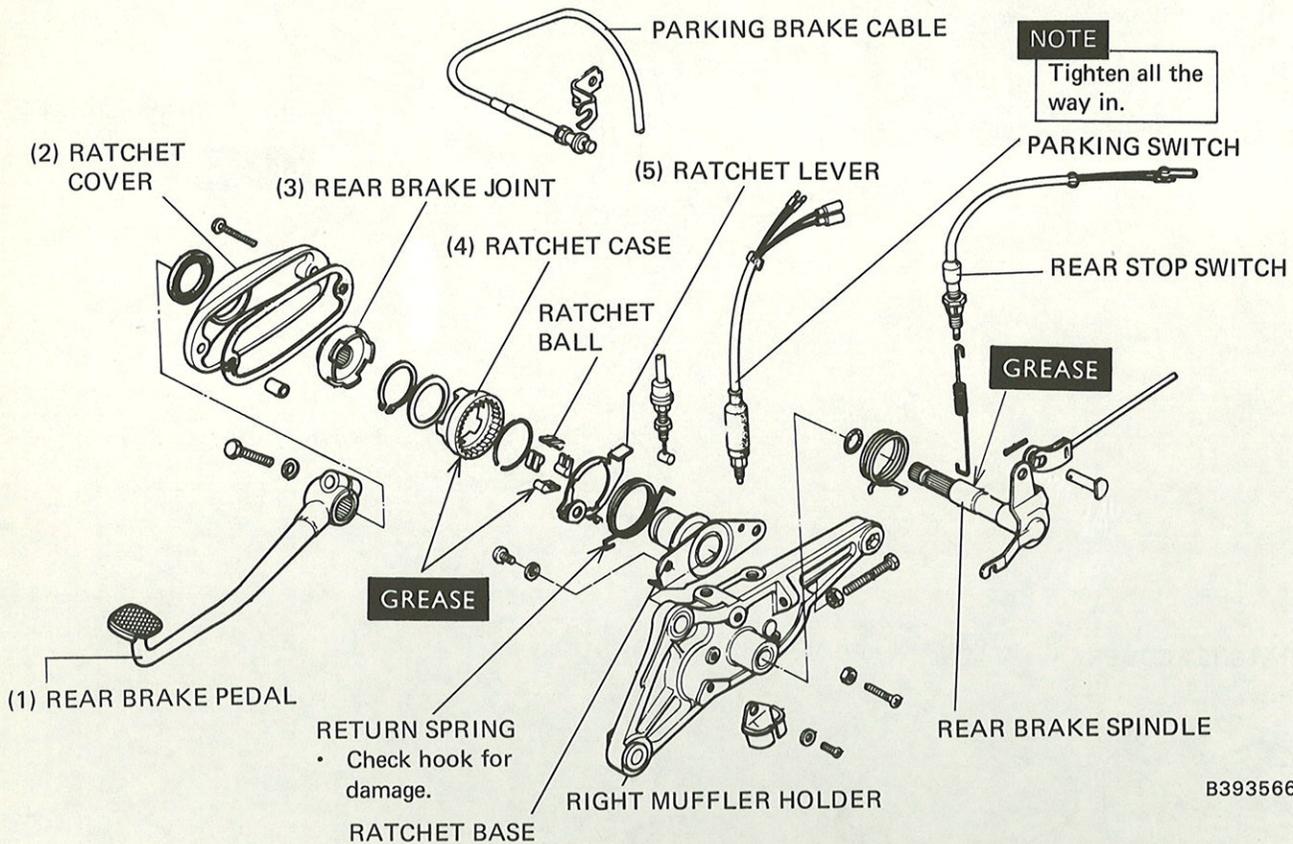


After assembling, inspect the following items and adjust if necessary.

- Brake pedal free play 20–30 mm (0.8–1.2 in.)
- Parking brake cable free play 2 mm (0.08 in.)

(Page 4–20)

● PARKING BRAKE SYSTEM ('77 and '78 Models)



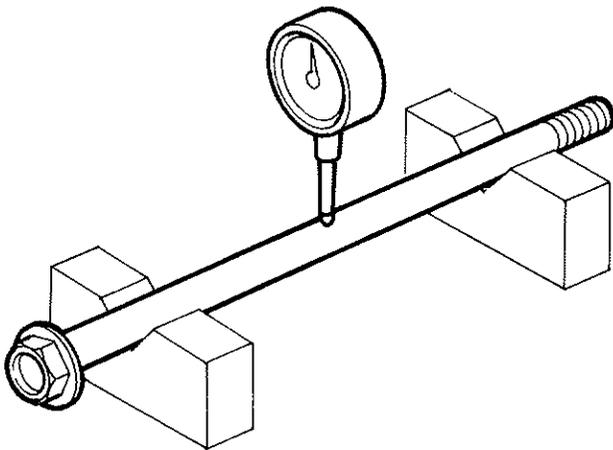
After assembling, inspect the following items and adjust if necessary.

- Brake pedal free play 20–30 mm (0.8–1.2 in.)
- Parking brake cable free play 2 mm (0.08 in.)



● **INSPECTION**

● **REAR AXLE RUNOUT**

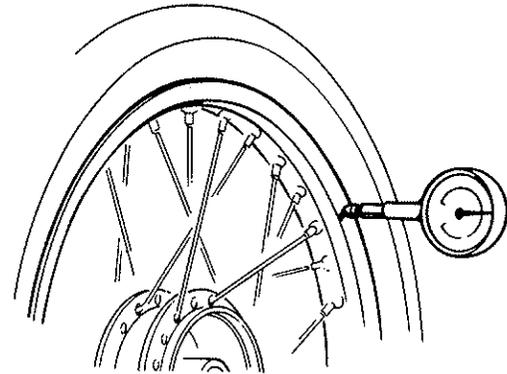


I393631

Use 1/2 of T.I.R. (Total indicator reading).

Standard	0–0.05 mm (0–0.002 in.)
Service Limit	0.2 mm (0.008 in.)

● **REAR WHEEL RIM RUNOUT**

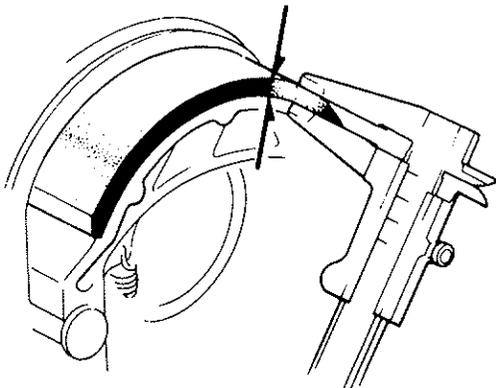


W149542

Check the rim for distortion on the flange or any other defects.

Standard	0–1.0 mm (0–0.039 in.)
Service Limit	2.0 mm (0.08 in.)

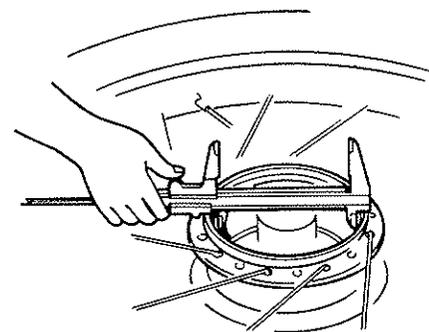
● **REAR BRAKE LINING THICKNESS**



B149521

Standard	5.0 mm (0.20 in.)
Service Limit	2.0 mm (0.08 in.)

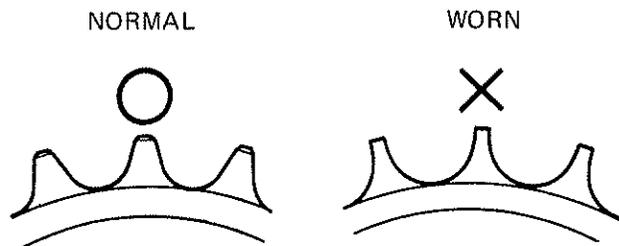
● **REAR BRAKE DRUM I.D.**



Standard	180 mm (7.087 in.)
Service Limit	181 mm (7.126 in.)



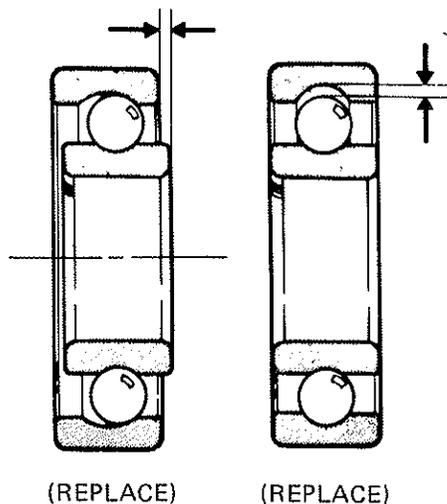
• FINAL DRIVEN SPROCKET WEAR



W149549

Also check the drive chain and drive sprocket for wear.

• WHEEL BEARING PLAY

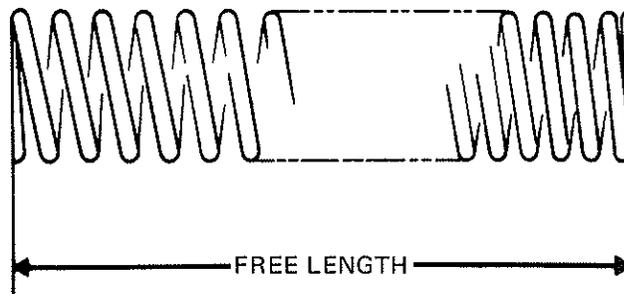


- Replace the bearing if there is excessive play.
- Replace the bearing if it is noisy when spinning the outer race by hand.

• SWING ARM PIVOT BOLT-TO-PIVOT BUSHING CLEARANCE

Pivot bushing I.D.	21.500–21.552 mm (0.8465–0.8485 in.)	21.7 mm (0.854 in.)
Center collar O.D.	21.427–21.460 mm (0.8436–0.8449 in.)	21.3 mm (0.839 in.)

• REAR SHOCK ABSORBER SPRING FREE LENGTH



Standard	232.7 mm (9.16 in.)
Service Limit	220 mm (8.66 in.)



FUEL TANK

• ASSEMBLY/DISASSEMBLY

WARNING

- Keep away from open flame or lighted cigarette.
- Store gasoline in a safe place.

FUEL TANK SENDING UNIT

Disassembly/Assembly,
Page 17-2.

FILLER CAP

- Inspect for clogged vent holes

NOTE

Make sure that the cables and wires are not pinched between the fuel tank and frame.

NOTE

Before disassembling, drain fuel from the fuel tank thoroughly. After assembling, fill the tank with fuel and check for leaks.

FUEL TANK SENDING UNIT CORDS

NOTE

Do not forget to install.

FUEL FILTER SCREEN

NOTE

Wash in solvent and air dry.

FUEL TANK OVERFLOW TUBES

NOTE

Do not forget to install.

NOTE

Make sure that the O-ring is installed properly at assembly.

- Check for damage.

CAUTION

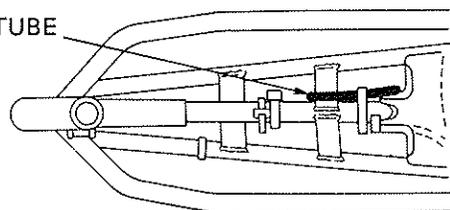
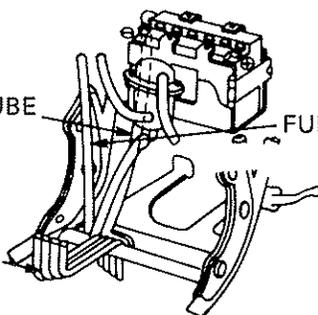
When installing route the breather and overflow tube, as shown. Do not bend or kink the tube.

BATTERY

BREATHER TUBE

FUEL TANK OVERFLOW TUBE

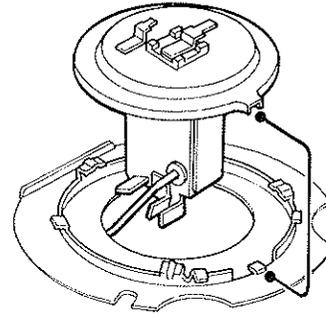
CARBURETOR OVERFLOW TUBE





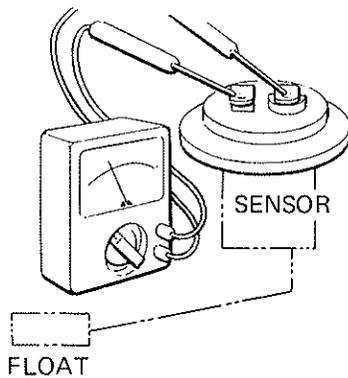
• FUEL TANK SENDING UNIT REMOVAL

50 mm LOCK NUT WRENCH
07920-6710001



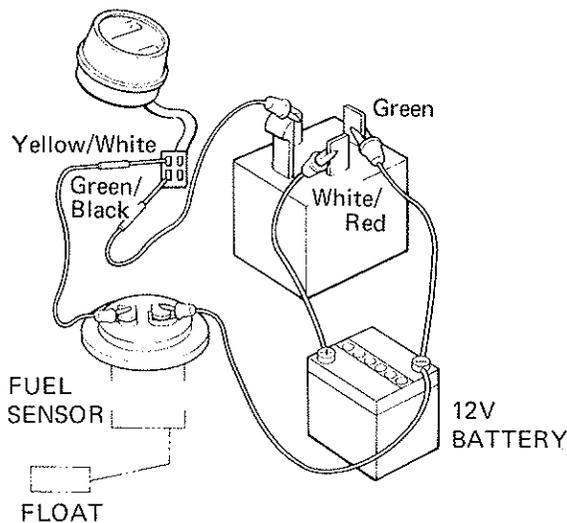
Align the sensor slot with the tank tab.

• FUEL TANK SENDING UNIT INSPECTION
• CONTINUITY TEST



CAPACITY:
FULL : 6-10 Ω
EMPTY: 75-80 Ω

• FUEL GAUGE OPERATION CHECK



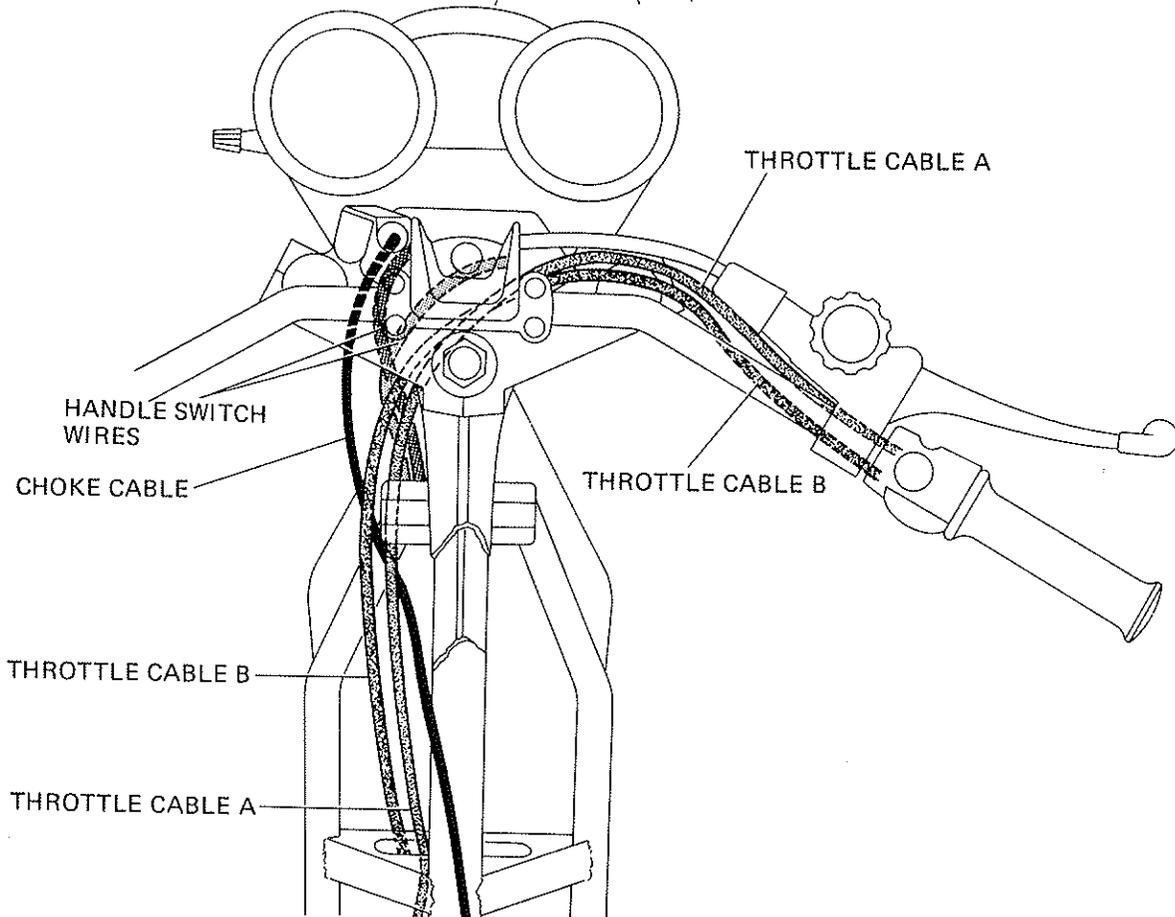
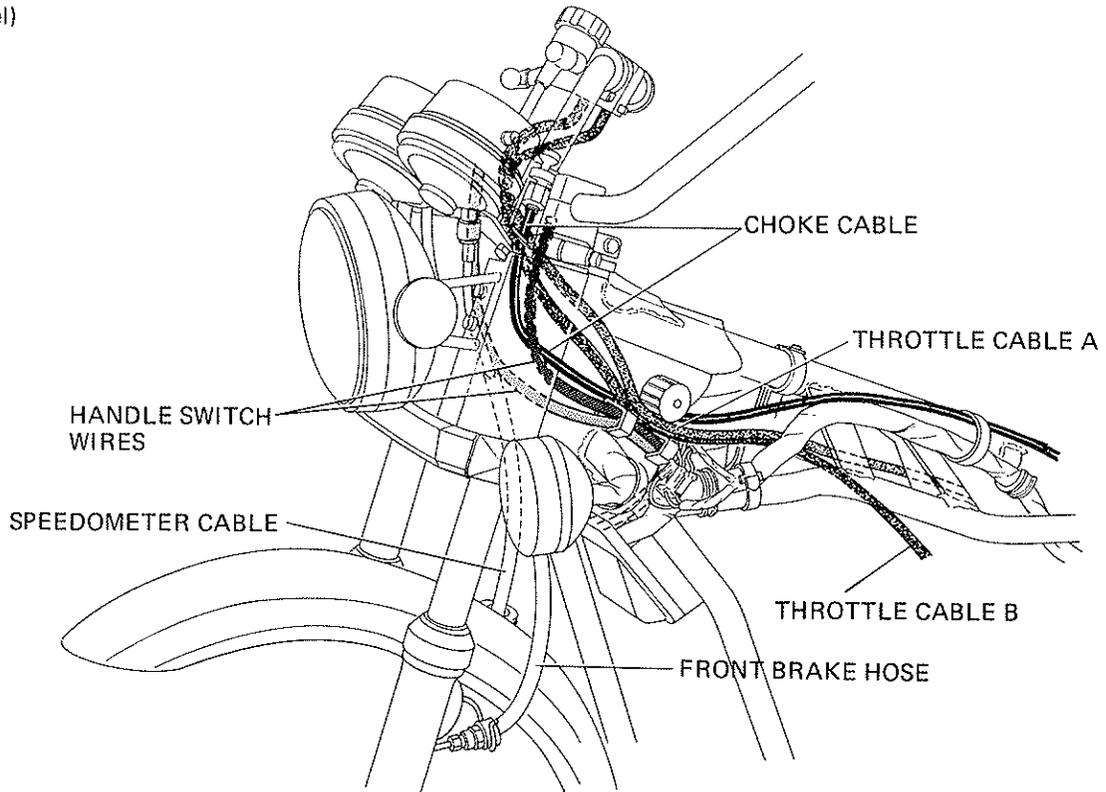
FLOAT AT LOWER LIMIT: Gauge should register "E".
FLOAT AT UPPER LIMIT : Gauge should register "F"

CAUTION

The fuel gauge is rated at 7V. Do not connect the gauge directly to a 12V battery.



('76 Model)





WIRING

('77 and '78 Model)

