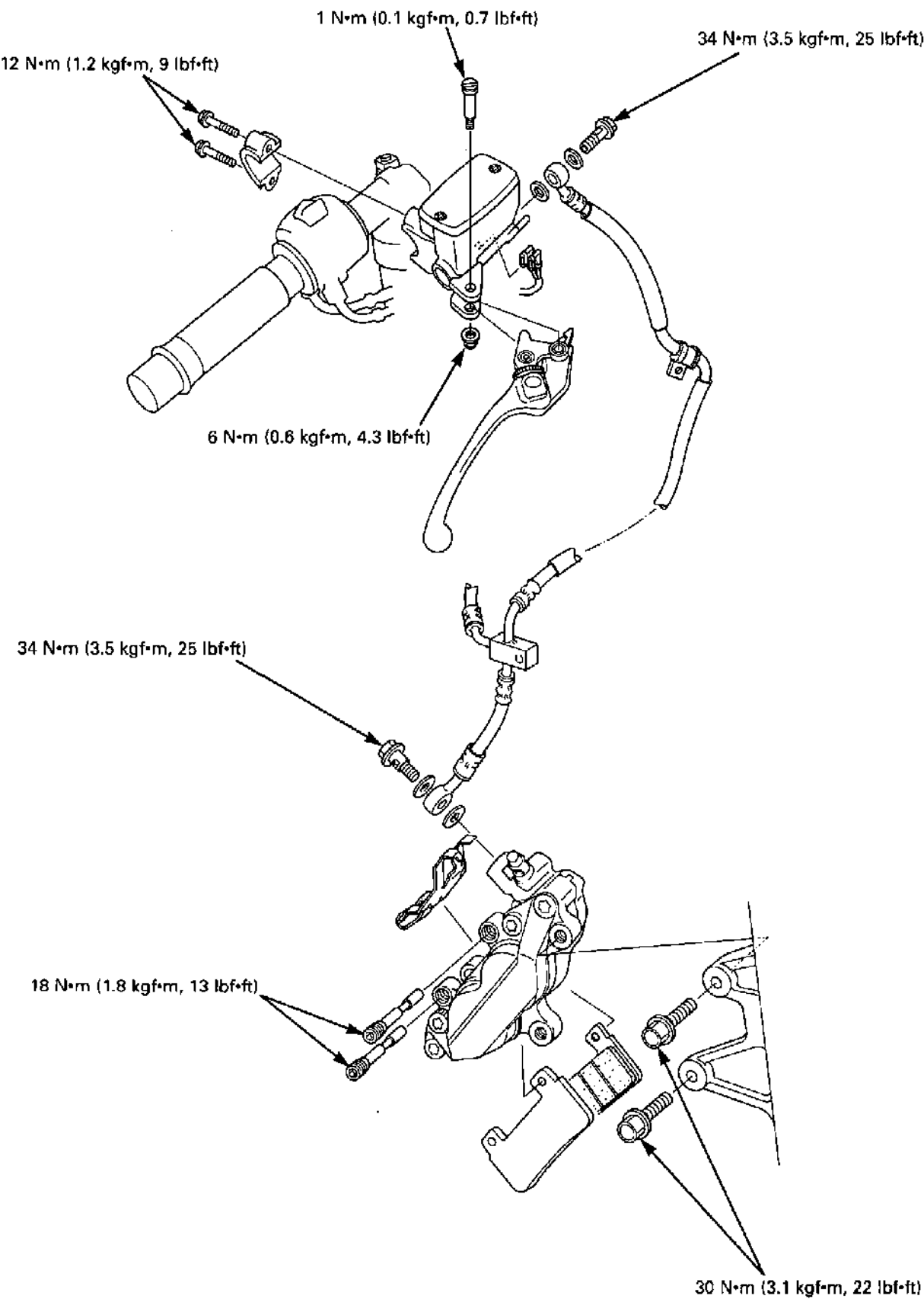


HYDRAULIC BRAKE

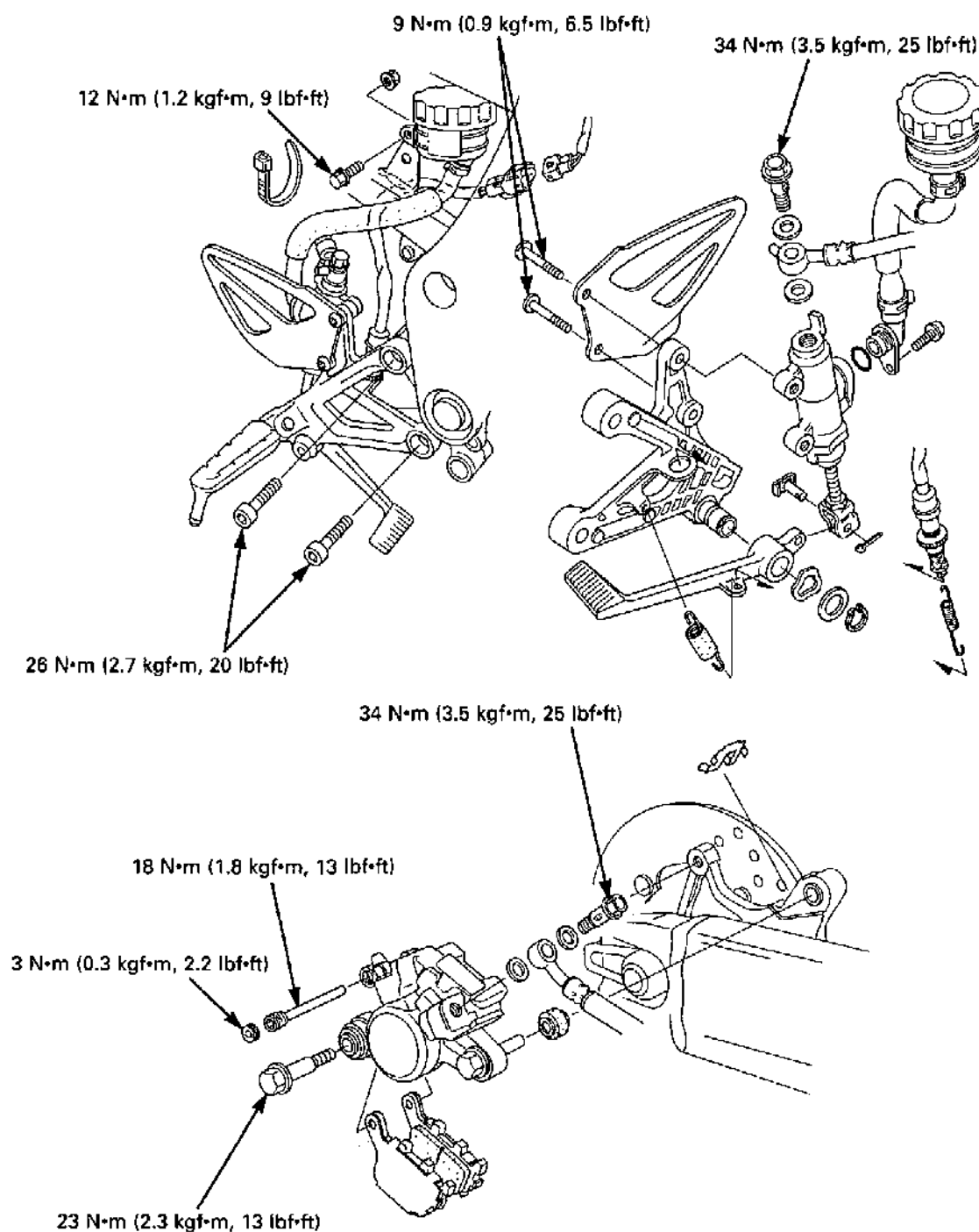
FRONT:



15. HYDRAULIC BRAKE

SERVICE INFORMATION	15-2	FRONT MASTER CYLINDER	15-10
TROUBLESHOOTING	15-3	REAR MASTER CYLINDER	15-15
BRAKE FLUID REPLACEMENT/ AIR BLEEDING	15-4	FRONT BRAKE CALIPER	15-19
BRAKE PAD/DISC	15-7	REAR BRAKE CALIPER	15-23
		BRAKE PEDAL	15-26

REAR:



SERVICE INFORMATION

GENERAL

⚠ CAUTION

Frequent inhalation of brake pad dust, regardless of material composition could be hazardous to your health.

- Avoid breathing dust particles.
- Never use an air hose or brush to clean brake assemblies. Use an OSHA-approved vacuum cleaner.

- A contaminated brake disc or pad reduces stopping power. Discard contaminated pads and clean a contaminated disc with a high quality brake degreasing agent.
- Check the brake system by applying the brake lever or pedal after the air bleeding.
- Spilled brake fluid will severely damage instrument lenses and painted surfaces. It is also harmful to some rubber parts. Be careful whenever you remove the reservoir cap; make sure the front reservoir is horizontal first.
- Never allow contaminants (dirt, water, etc.) to get into an open reservoir.
- Once the hydraulic system has been opened, or if the brake feels spongy, the system must be bled.
- Always use fresh DOT 4 brake fluid from a sealed container when servicing the system. Do not mix different types of fluid they may not be compatible.
- Always check brake operation before riding the motorcycle.

SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Front	Specified brake fluid	DOT 4	—
	Brake disc thickness	4.4 – 4.6 (0.17 – 0.18)	3.5 (0.14)
	Brake disc runout	—	0.20 (0.008)
	Master cylinder I.D.	15.870 – 15.913 (0.6248 – 0.6265)	15.925 (0.6270)
	Master piston O.D.	15.827 – 15.854 (0.6231 – 0.6242)	15.815 (0.6226)
	Caliper cylinder I.D.	A	33.96 – 34.01 (1.337 – 1.339)
		B	32.030 – 32.080 (1.2610 – 1.2630)
	Caliper piston O.D.	A	33.802 – 33.835 (1.3308 – 1.3321)
		B	31.877 – 31.910 (1.2550 – 1.2563)
Rear	Specified brake fluid	DOT 4	—
	Brake pedal height	75 (3.0)	—
	Brake disc thickness	4.8 – 5.2 (0.19 – 0.20)	4.0 (0.16)
	Brake disc runout	—	0.30 (0.012)
	Master cylinder I.D.	14.000 – 14.043 (0.5512 – 0.5529)	14.055 (0.5533)
	Master piston O.D.	13.957 – 13.984 (0.5495 – 0.5506)	13.945 (0.5490)
	Caliper cylinder I.D.	38.18 – 38.23 (1.053 – 1.505)	38.24 (1.506)
	Caliper piston O.D.	38.098 – 38.148 (1.4999 – 1.5019)	38.09 (1.500)

TORQUE VALUES

Front master cylinder reservoir cap screw	2 N•m (0.2 kgf•m, 1.4 lbf•ft)	
Brake lever pivot bolt	1 N•m (0.1 kgf•m, 0.7 lbf•ft)	
Brake lever pivot nut	6 N•m (0.6 kgf•m, 4.3 lbf•ft)	
Front brake light switch screw	1 N•m (0.1 kgf•m, 0.7 lbf•ft)	
Front master cylinder mounting bolt	12 N•m (1.2 kgf•m, 9 lbf•ft)	
Front brake caliper assembly torx bolt	23 N•m (2.3 kgf•m, 17 lbf•ft)	Apply a locking agent to the threads. ALOC bolt.
Front brake caliper mounting flange bolt	30 N•m (3.1 kgf•m, 22 lbf•ft)	
Rear master cylinder joint nut	18 N•m (1.8 kgf•m, 13 lbf•ft)	
Rear master cylinder mounting bolt	9 N•m (0.9 kgf•m, 6.5 lbf•ft)	
Rear brake reservoir mounting bolt/nut	12 N•m (1.2 kgf•m, 9 lbf•ft)	
Rear brake caliper bracket bolt	23 N•m (2.3 kgf•m, 17 lbf•ft)	
Rear brake caliper pin bolt	27 N•m (2.8 kgf•m, 20 lbf•ft)	Apply a locking agent to the threads.
Pad pin	18 N•m (1.8 kgf•m, 13 lbf•ft)	
Pad pin plug	3 N•m (0.3 kgf•m, 2.2 lbf•ft)	
Brake hose oil bolt	34 N•m (3.5 kgf•m, 25 lbf•ft)	
Brake caliper bleeder valve	6 N•m (0.6 kgf•m, 4.3 lbf•ft)	

TOOL

Snap ring pliers	07914-SA50001
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TROUBLESHOOTING
Brake lever/pedal soft or spongy

- Air in hydraulic system
- Leaking hydraulic system
- Contaminated brake pad/disc
- Worn caliper piston seal
- Worn master cylinder piston cups
- Worn brake pad/disc
- Contaminated caliper
- Rear caliper not sliding properly
- Low brake fluid level
- Clogged fluid passage
- Warped/deformed brake disc
- Sticking/worn caliper piston
- Sticking/worn master cylinder piston
- Contaminated master cylinder
- Bent brake lever/pedal

Brake lever/pedal hard

- Clogged/restricted brake system
- Sticking/worn caliper piston
- Rear caliper not sliding properly
- Clogged/restricted fluid passage
- Worn caliper piston seal
- Sticking/worn master cylinder piston
- Bent brake lever/pedal

Brake drags

- Contaminated brake pad/disc
- Misaligned wheel
- Clogged/restricted brake hose joint
- Warped/deformed brake disc
- Rear caliper not sliding properly
- Clogged/restricted brake hydraulic system
- Sticking/worn caliper piston
- Clogged master cylinder port

BRAKE FLUID REPLACEMENT/AIR BLEEDING

NOTICE

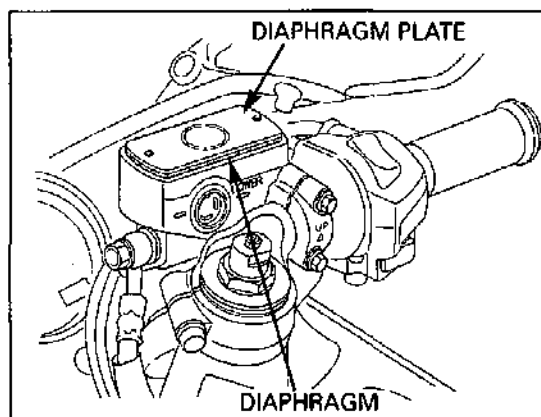
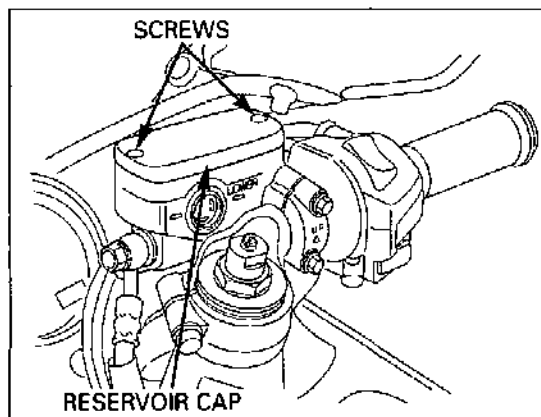
- Do not allow foreign material to enter the system when filling the reservoir.
- Avoid spilling fluid on painted, plastic, or rubber parts. Place a rag over these parts whenever the system is serviced.

BRAKE FLUID DRAINING

For the front brake, turn the handlebar until the reservoir is parallel to the ground, before removing the reservoir cap.

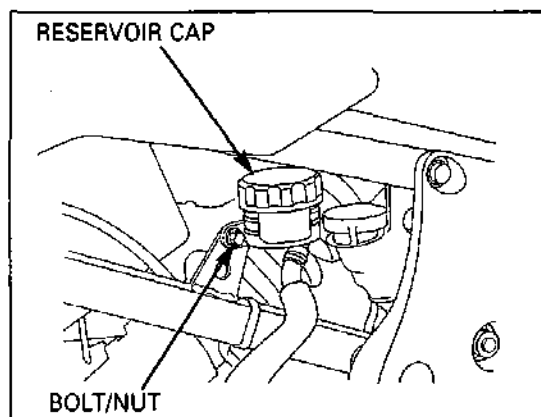
Remove the screws and reservoir cap.

Remove the diaphragm plate and diaphragm.

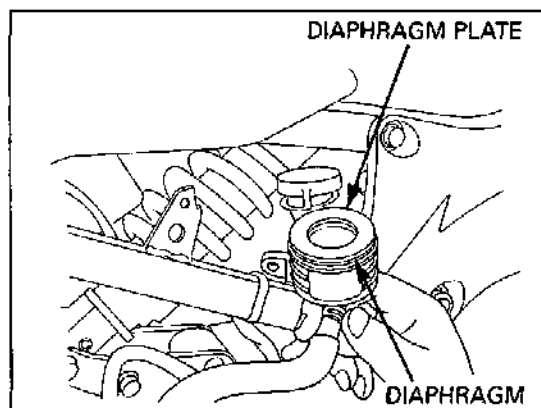


For the rear brake, remove the rear brake reservoir mounting bolt/nut.

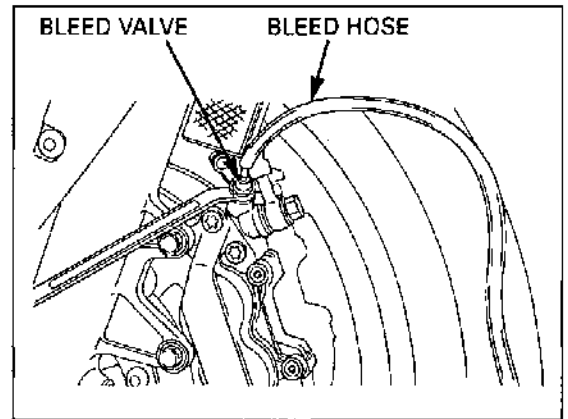
Remove the reservoir cap.



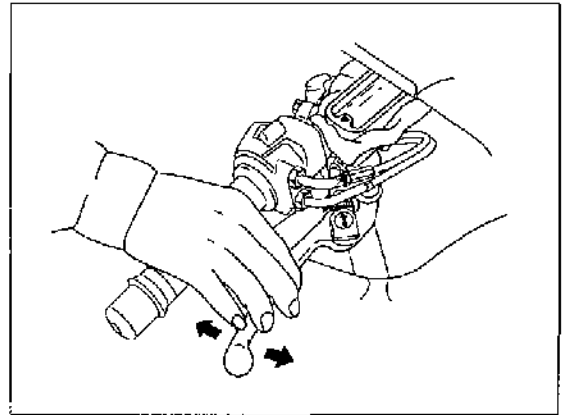
Remove the diaphragm plate and diaphragm.



Connect a bleed hose to the caliper bleed valve.



Loosen the bleed valve and pump the brake lever or pedal.
Stop pumping the lever or pedal when fluid stop flowing out of the bleed valve.



BRAKE FLUID FILLING

Fill the reservoir with DOT 4 brake fluid from a sealed container.

NOTICE

- Use only DOT 4 brake fluid from a sealed container.
- Do not mix different types of fluid, they are not compatible.

Connect a commercially available brake bleeder to the bleed valve.

Pump the brake bleeder and loosen the bleed valve, adding fluid when the fluid level in the master cylinder reservoir is low.

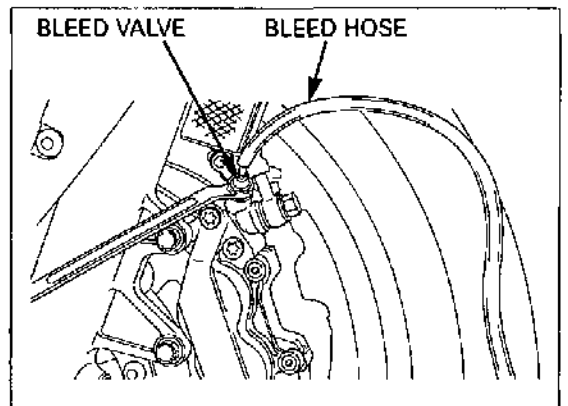
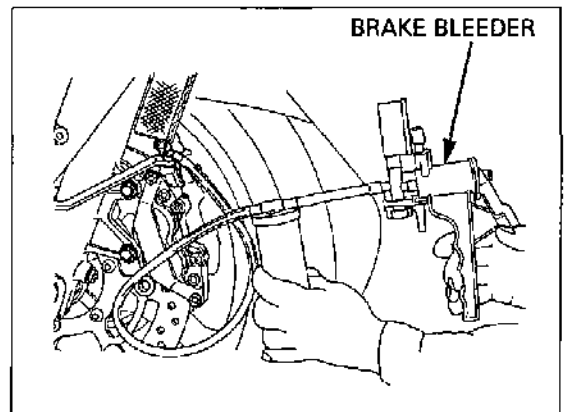
- Check the fluid level often while bleeding the brakes to prevent air from being pumped into the system.
- When using a brake bleeding tool, follow the manufacturer's operating instructions.

Repeat the previous step procedures until air bubbles do not appear in the plastic hose.

- If air is entering the bleeder from around the bleed valve threads, seal the threads with teflon tape.
- If a brake bleeder is not available, fill the master cylinder and operate the brake lever or pedal to fill the system.

Close the bleed valve.

Next, perform the brake bleeding procedure.



HYDRAULIC BRAKE

BRAKE BLEEDING

Connect a clear bleed hose to the bleed valve. Pump the lever or pedal until there are no air bubbles in the fluid flowing out of the master cylinder, and lever or pedal resistance is felt.

Do not release the brake lever or pedal until the bleed valve has been closed.

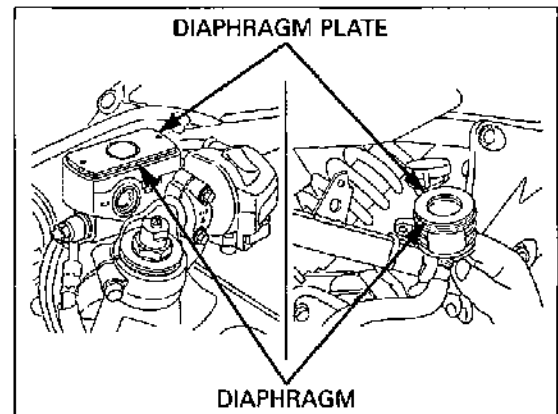
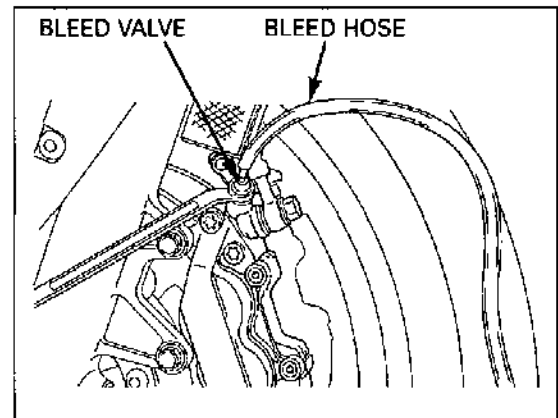
1. Squeeze the brake lever or push the brake pedal, open the bleed valve 1/2 of a turn and then close the valve.
2. Release the brake lever or pedal until the bleed valve has been closed.

Repeat steps 1 and 2 until bubbles cease to appear in the fluid coming out of the bleed valve. Tighten the bleed valve.

TORQUE: 6 N·m (0.6 kgf·m, 4.3 lbf·ft)

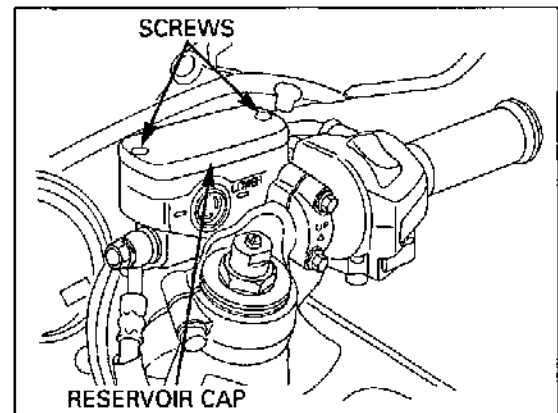
Fill the fluid reservoir to the upper level.

Reinstall the diaphragm and diaphragm plate.



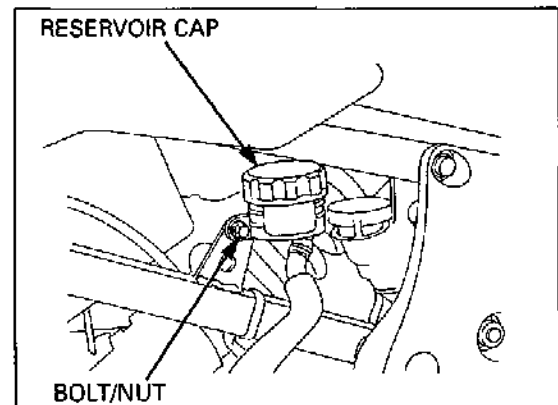
Install the reservoir cap, and tighten the screws to the specified torque.

TORQUE: 2 N·m (0.2 kgf·m, 1.4 lbf·ft)



Install the reservoir cap securely, then install the reservoir onto the seat rail and tighten the mounting bolt/nut to the specified torque.

TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)

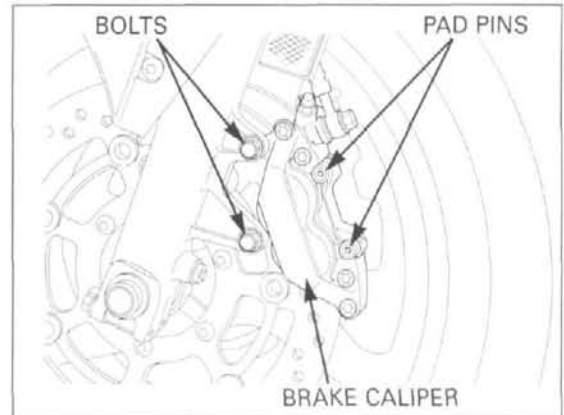


BRAKE PAD/DISC

FRONT BRAKE PAD REPLACEMENT

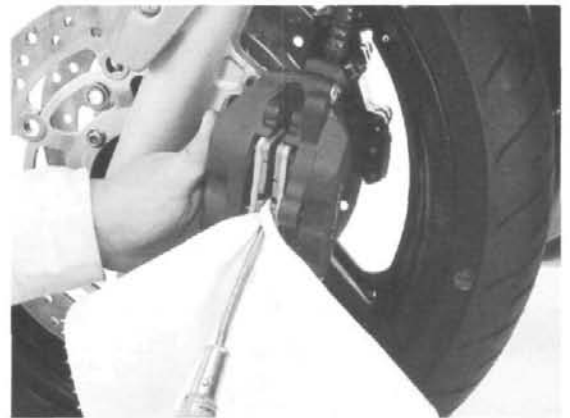
Always replace the brake pads in pairs to assure even disc pressure.

Loosen the pad pins.
Remove the bolts and brake caliper.

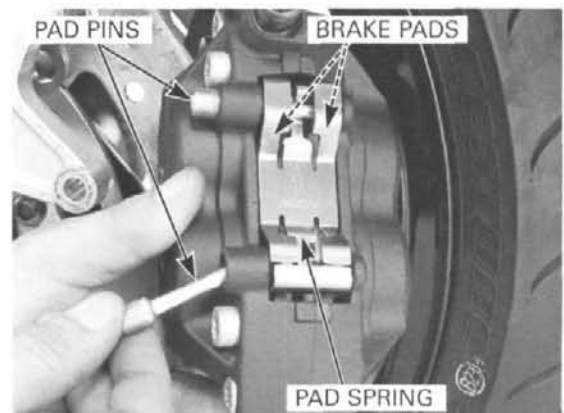


Check the brake fluid level in the brake master cylinder reservoir as this operation causes the level to rise.

Push the caliper pistons all the way in to allow installation of new brake pads.



Remove the pad pins, pad spring and brake pads.



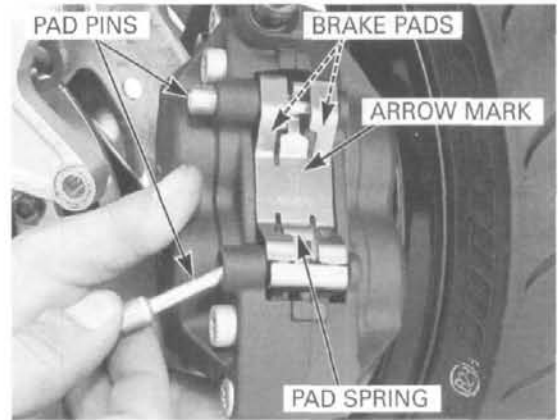
Clean the inside of the caliper especially around the caliper pistons.



HYDRAULIC BRAKE

Install the new brake pads.
Install the pad spring with its arrow mark facing up as shown.

Push the pad spring, then install the pad pin.



Be careful not to damage the pads.

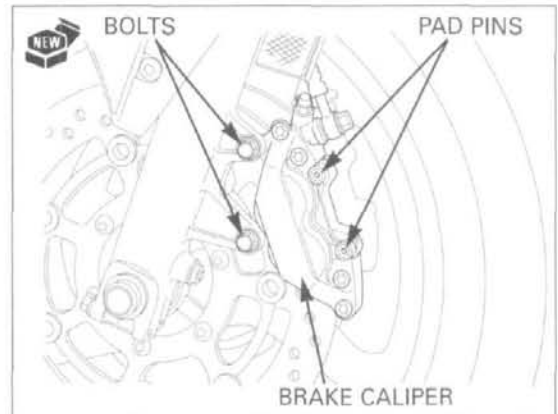
Install the brake caliper to the fork leg so that the disc is positioned between the pads.

Install and tighten the new brake caliper mounting bolts.

TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)

Tighten the pad pins.

TORQUE: 18 N·m (1.8 kgf·m, 13 lbf·ft)



Always replace the brake pads in pairs to assure even disc pressure.

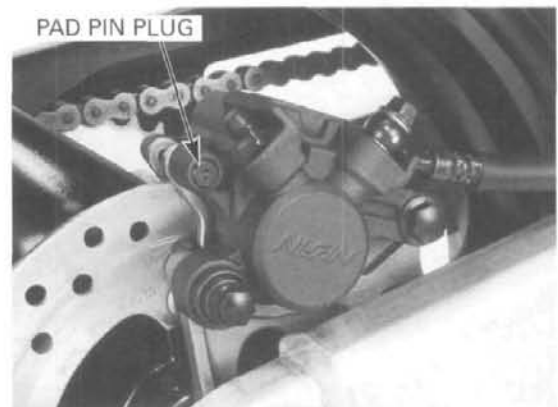
REAR BRAKE PAD REPLACEMENT

Check the brake fluid level in the brake master cylinder reservoir as this operation causes the level to rise.

Push the caliper pistons all the way in by pushing the caliper body inward to allow installation of new brake pads.

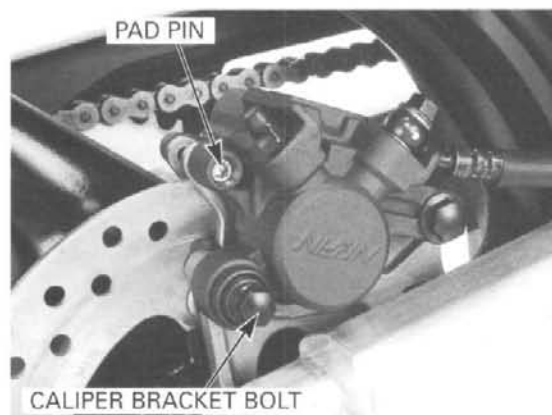


Remove the pad pin plug.



Loosen the pad pin.

Remove the caliper bracket bolt.



Pivot the caliper up.

Remove the pad pin and brake pads.



Make sure the brake pad spring is in place.
Install the new brake pads.

Lower the caliper while pushing the pads against the pad spring so the pad ends are positioned onto the retainer on the caliper bracket.

Install the pad pin.

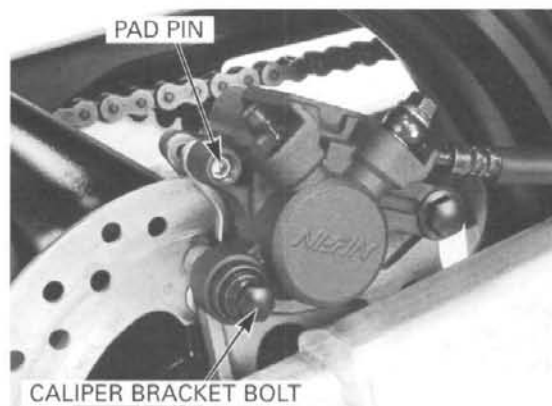


Install and tighten the caliper bracket bolt.

TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)

Tighten the pad pin.

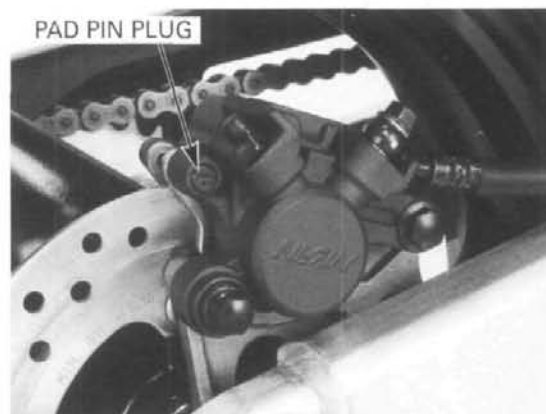
TORQUE: 18 N·m (1.8 kgf·m, 13 lbf·ft)



HYDRAULIC BRAKE

Install and tighten the pad pin plug.

TORQUE: 3 N·m (0.3 kgf·m, 2.2 lbf·ft)



BRAKE DISC INSPECTION

Visually inspect the brake disc for damage or cracks.

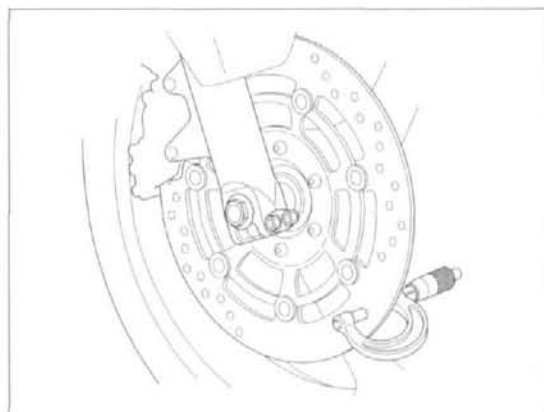
Measure the brake disc thickness with a micrometer.

SERVICE LIMITS:

FRONT: 3.5 mm (0.14 in)

REAR: 4.0 mm (0.16 in)

Replace the brake disc if the smallest measurement is less than the service limit.



Measure the brake disc warpage with a dial indicator.

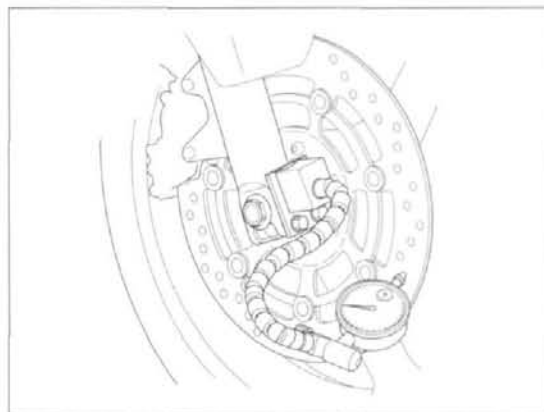
SERVICE LIMITS:

FRONT: 0.20 mm (0.008 in)

REAR: 0.30 mm (0.012 in)

Check the wheel bearings for excessive play, if the warpage exceeds the service limit.

Replace the brake disc if the wheel bearings are normal.



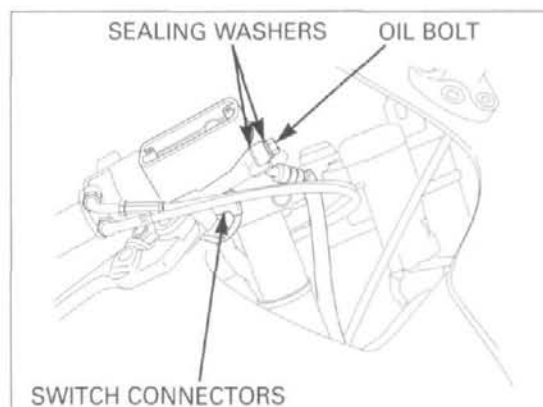
FRONT MASTER CYLINDER

REMOVAL

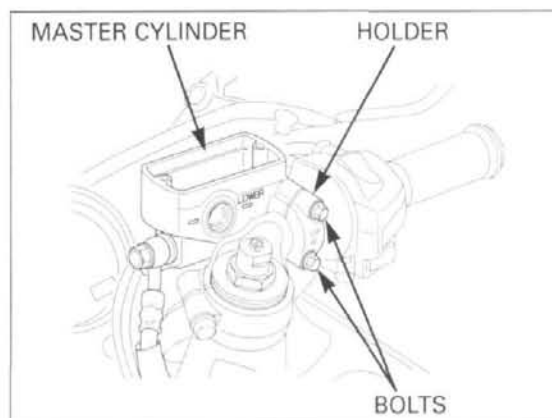
Drain the front hydraulic system (page 15-4).

Disconnect the brake light switch wire connectors. Remove the brake hose oil bolt, sealing washers and brake hose eyelet.

Avoid spilling fluid on painted, plastic, or rubber parts. Place a rag over these parts whenever the system is serviced.

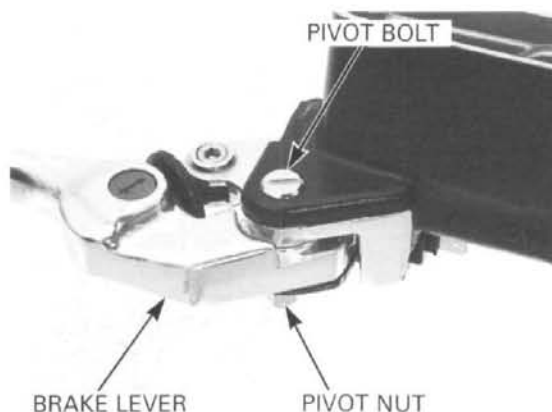


Remove the bolts from the master cylinder holder and remove the master cylinder assembly.

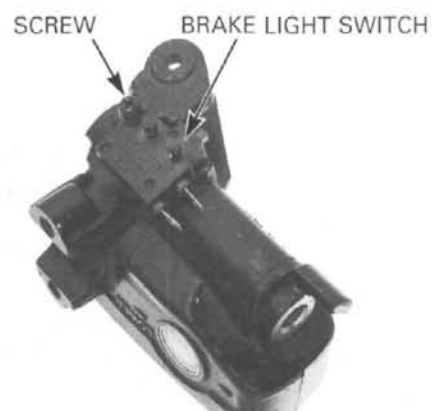


DISASSEMBLY

Remove the pivot bolt/nut and brake lever assembly.



Remove the screw and brake light switch.



Remove the boot.



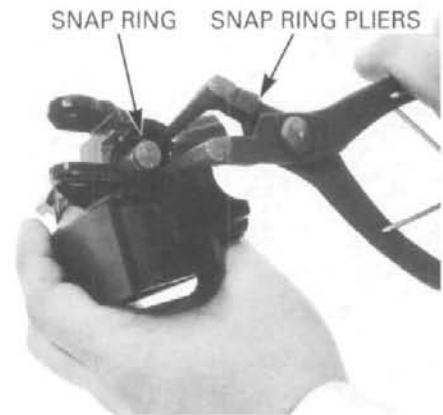
HYDRAULIC BRAKE

Remove the snap ring from the master cylinder body using the special tool as shown.

TOOL:

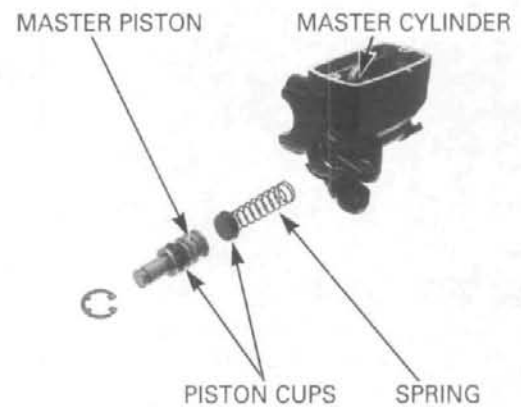
Snap ring pliers

07914-SA50000



Remove the master piston and spring.

Clean the inside of the cylinder and reservoir with brake fluid.



INSPECTION

Check the piston boot, primary cup and secondary cup for fatigue or damage.

Check the master cylinder and piston for abnormal scratches.

Measure the master cylinder I.D.

SERVICE LIMIT: 15.925 mm (0.6270 in)

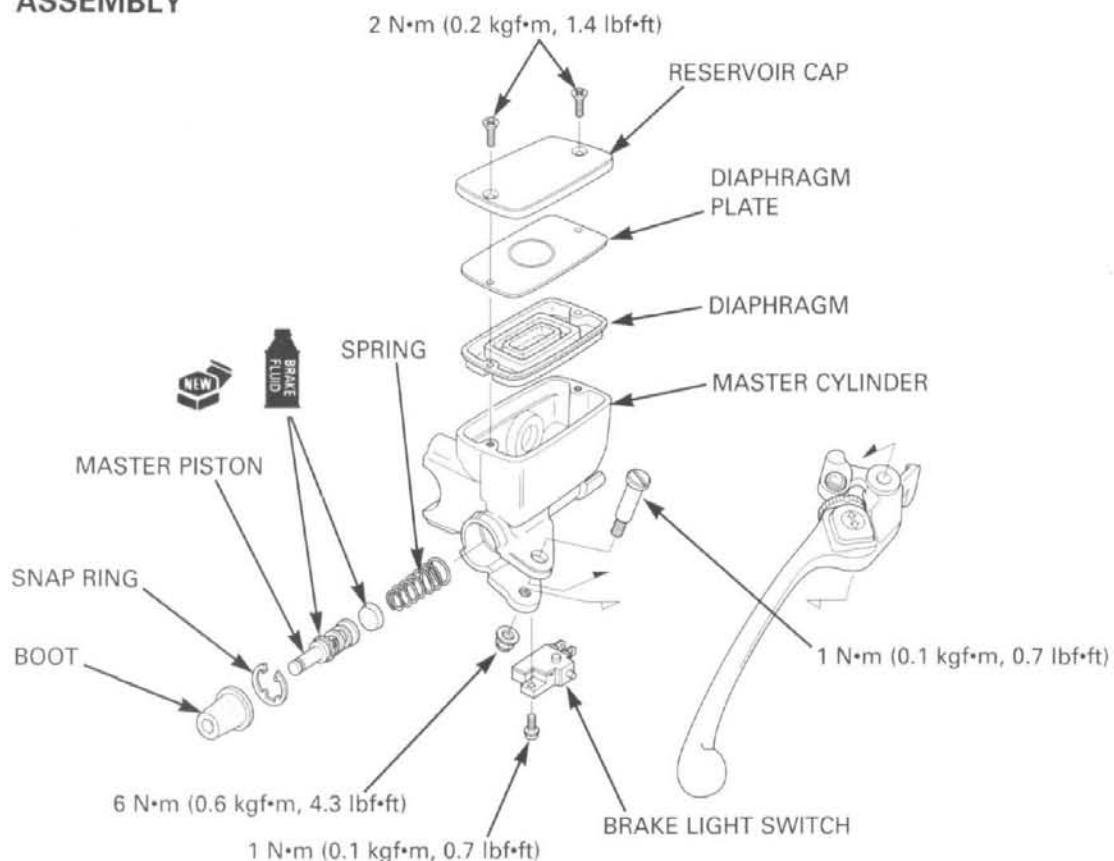


Measure the master cylinder piston O.D.

SERVICE LIMIT: 15.815 mm (0.6226 in)



ASSEMBLY

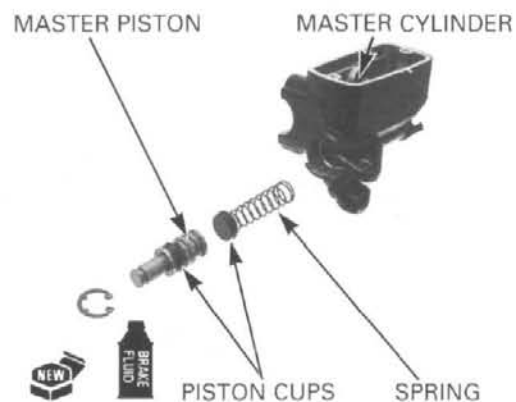


Keep the piston, cups, spring, snap ring and boot as a set; do not substitute individual parts.

When installing the cups, do not allow the lips to turn inside out.

Coat all parts with clean brake fluid before assembly.

Dip the piston in brake fluid.
Install the spring into the piston.
Install the piston assembly into the master cylinder.

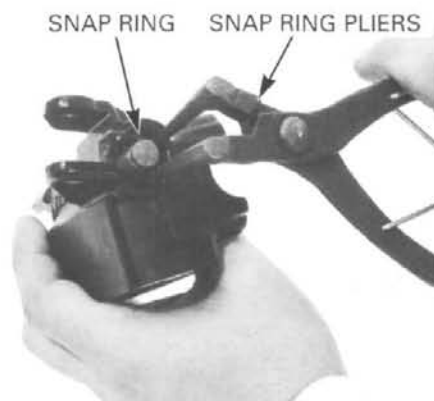


Be certain the snap ring is firmly seated in the groove.

Install the snap ring.

TOOL:
Snap ring pliers

07914-SA50000



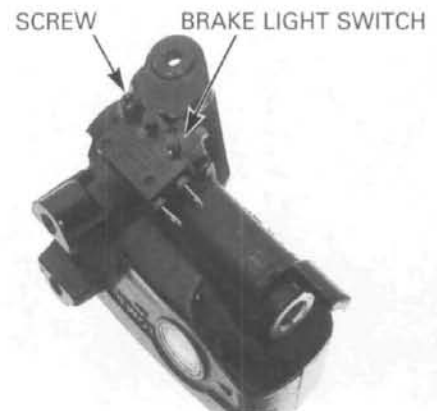
HYDRAULIC BRAKE

Install the boot.



Install the brake light switch and tighten the screw to the specified torque.

TORQUE: 1 N·m (0.1 kgf·m, 0.7 lbf·ft)



Apply silicone grease to the contact surfaces of the brake lever and piston tip.

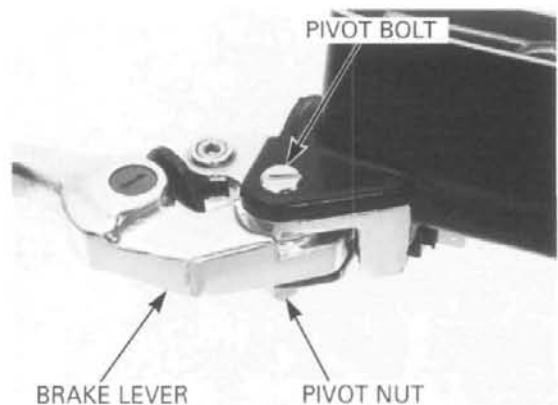


Install the brake lever assembly, tighten the pivot bolt to the specified torque.

TORQUE: 1 N·m (0.1 kgf·m, 0.7 lbf·ft)

Hold the pivot bolt and tighten the pivot nut to the specified torque.

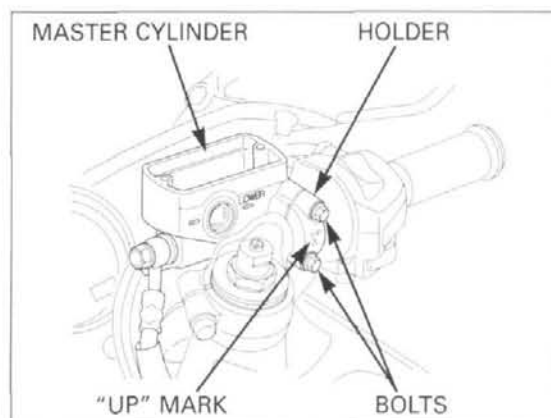
TORQUE: 6 N·m (0.6 kgf·m, 4.3 lbf·ft)



Place the master cylinder assembly on the handlebar. Align the end of the master cylinder with the punch mark on the handlebar.

Install the master cylinder holder with the "UP" mark facing up. Tighten the upper bolt first, then the lower bolt to the specified torque.

TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)

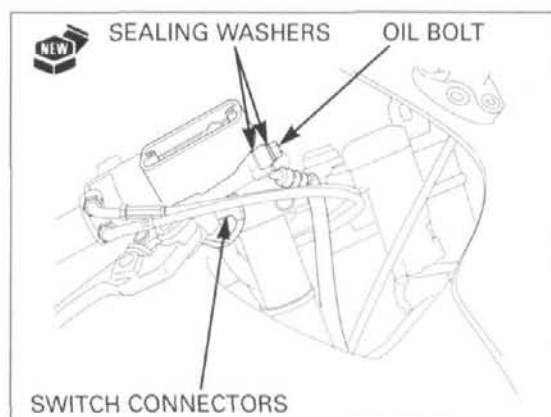


Install the brake hose eyelet with the oil bolt and new sealing washers. Push the eyelet joint against the stopper, then tighten the oil bolt to the specified torque.

TORQUE: 34 N·m (3.5 kgf·m, 25 lbf·ft)

Connect the brake light switch wire connectors.

Fill the reservoir to the upper level and bleed the brake system (page 15-4).



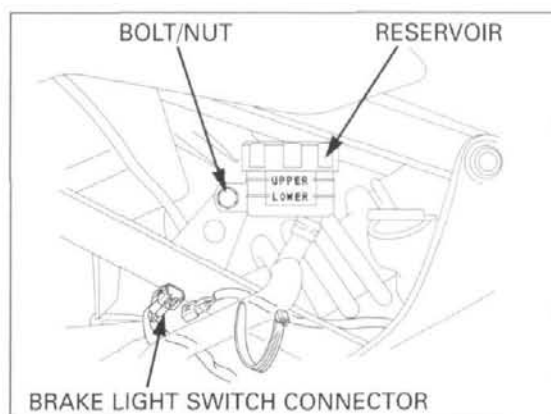
REAR MASTER CYLINDER

REMOVAL

Drain the rear hydraulic system (page 15-4).

Remove the brake light switch wire clamp. Disconnect the brake light switch 2P (Black) connector.

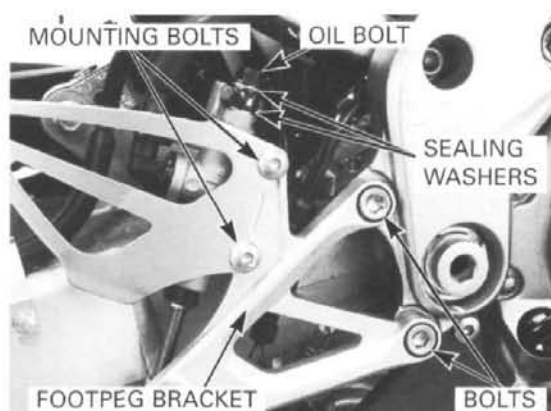
Remove the rear master cylinder reservoir mounting bolt/nut.



Avoid spilling fluid on painted, plastic, or rubber parts. Place a rag over these parts whenever the system is serviced.

Remove the brake hose oil bolt, sealing washers and brake hose.

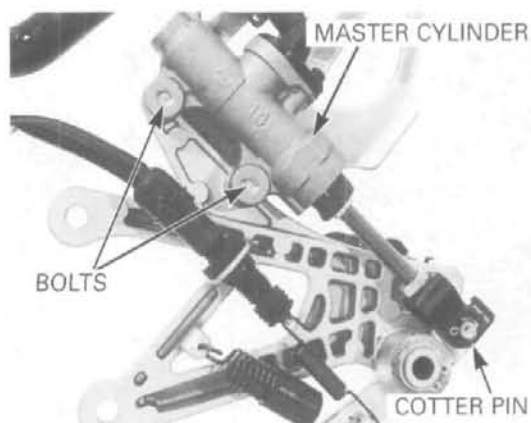
Loosen the rear master cylinder mounting bolts. Remove the rider footpeg bracket socket bolts and driver footpeg bracket assembly.



HYDRAULIC BRAKE

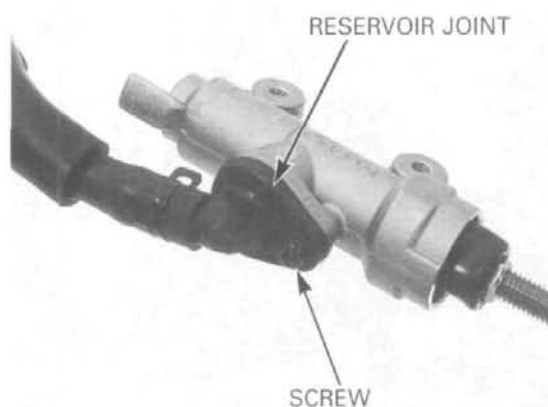
Remove and discard the brake pedal joint cotter pin.
Remove the joint pin.

Remove the master cylinder mounting bolts, step guard and master cylinder.



DISASSEMBLY

Remove the screw and reservoir hose joint from the master cylinder.



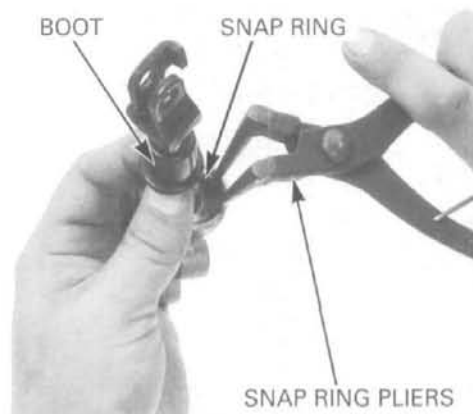
Remove the boot.

Remove the snap ring from the master cylinder body using the special tool as shown.

TOOL:

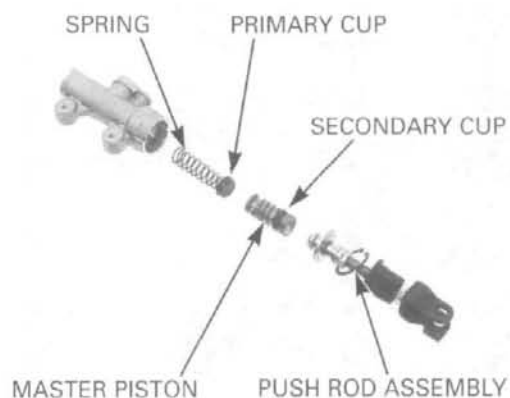
Snap ring pliers

07914-SA50000



Remove the push rod, master piston, primary cup and spring.

Clean the inside of the cylinder with brake fluid.



INSPECTION

Check the piston boot, primary cup and secondary cup for fatigue or damage.

Check the master cylinder and piston for abnormal scratches.

Measure the master cylinder I.D.

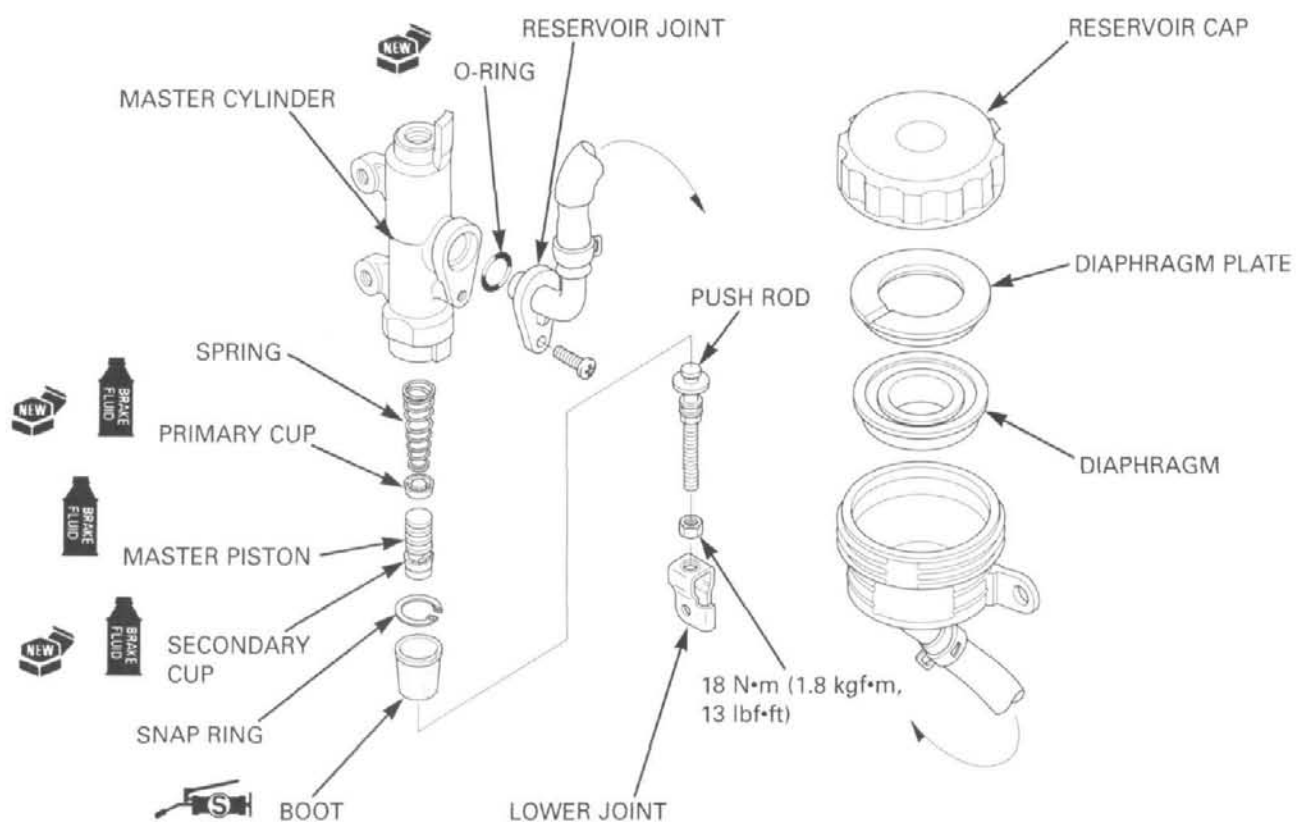
SERVICE LIMIT: 14.055 mm (0.5533 in)

Measure the master cylinder piston O.D.

SERVICE LIMIT: 13.945 mm (0.5490 in)



ASSEMBLY



Keep the piston, cups, spring, snap ring and boot as a set; do not substitute individual parts.

When installing the cups, do not allow the lips to turn inside out.

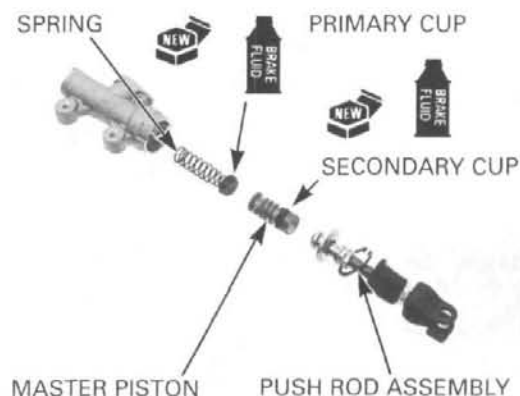
Coat all parts with clean brake fluid before assembly.

Dip the piston in brake fluid.

Install the spring onto the primary cup.

Install the spring/primary cup and master piston assembly.

Apply silicone grease to the piston contact area of the push rod.



HYDRAULIC BRAKE

Be certain the snap ring is firmly seated in the groove.

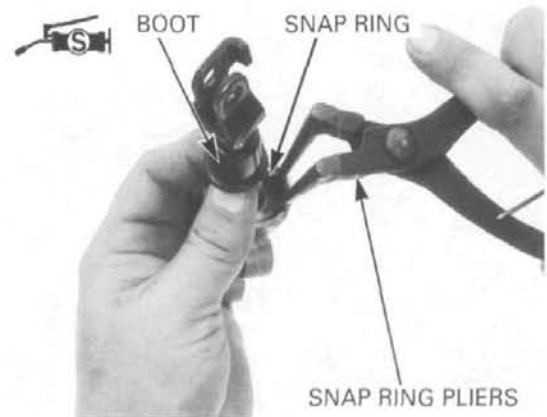
Install the push rod into the master cylinder.
Install the snap ring.

TOOL:

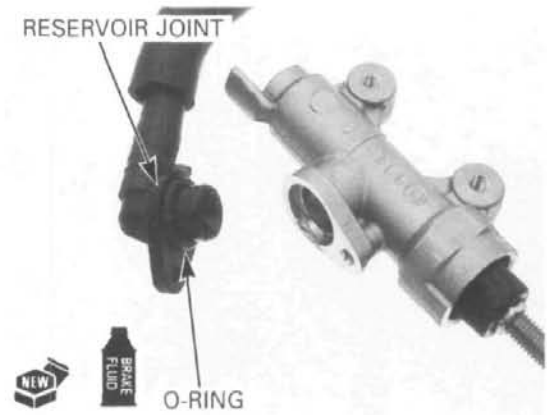
Snap ring pliers

07914-SA50000

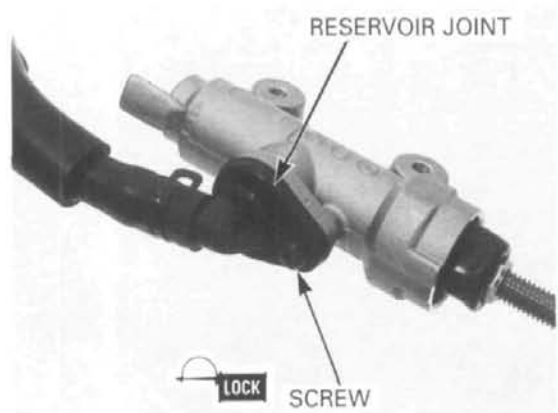
Install the boot.



Apply brake fluid to a new O-ring and install it onto the reservoir joint.
Install the reservoir joint into the master cylinder.

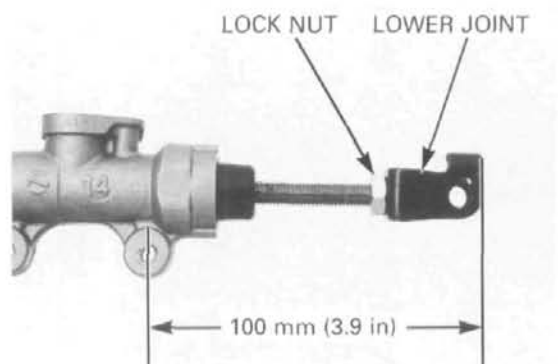


Apply a locking agent to the reservoir joint screw threads.
Install and tighten the screw securely.



If the push rod is disassembled, adjust the push rod length as shown.
After adjustment, tighten the lock nut to the specified torque.

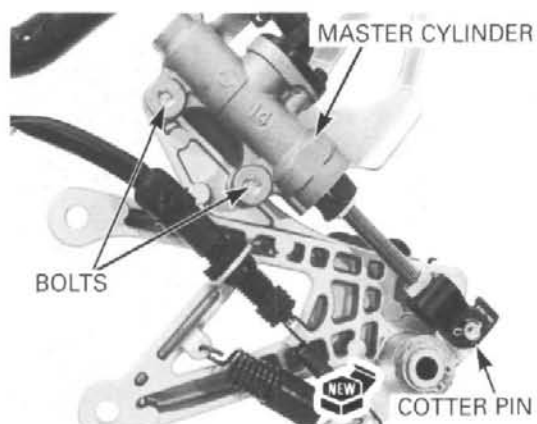
TORQUE: 18 N·m (1.8 kgf·m, 13 lbf·ft)



INSTALLATION

Place the master cylinder onto the main footpeg bracket, install the step guard and master cylinder mounting bolts.

Connect the brake pedal to the push rod lower joint. Install the joint pin and secure it with a new cotter pin.



Install the rider footpeg bracket onto the frame, tighten the socket bolts to the specified torque.

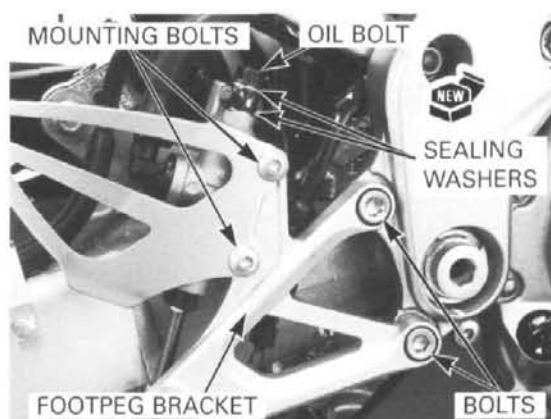
TORQUE: 26 N·m (2.7 kgf·m, 20 lbf·ft)

Tighten the master cylinder mounting bolts to the specified torque.

TORQUE: 9 N·m (0.9 kgf·m, 6.5 lbf·ft)

Install the brake hose with the oil bolt and new sealing washers.

Push the eyelet joint against the stopper, then tighten the oil bolt to the specified torque.



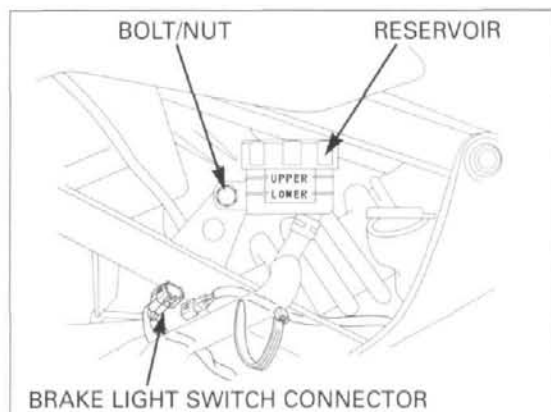
TORQUE: 34 N·m (3.5 kgf·m, 25 lbf·ft)

Install and tighten the brake reservoir mounting bolt/nut to the specified torque.

TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)

Connect the brake light switch 2P (Black) connector. Secure the brake light switch wire with a wire clamp.

Fill the reservoir to the upper level and bleed the brake system (page 15-4).



FRONT BRAKE CALIPER

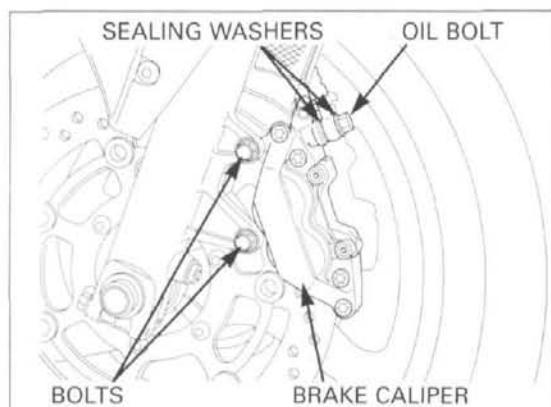
REMOVAL

Drain the front brake hydraulic system (page 15-4).

Avoid spilling fluid on painted, plastic, or rubber parts. Place a rag over these parts whenever the system is serviced.

Remove the oil bolt, sealing washers and brake hose eyelet joint.

Remove the caliper mounting bolts, caliper and the brake pads (page 15-6).



HYDRAULIC BRAKE

DISASSEMBLY

Do not use high pressure air or bring the nozzle too close to the inlet.

Install corrugated cardboard or a sheet of soft wood between the pistons.

Apply small squirts of air pressure to the fluid inlet to remove the pistons.



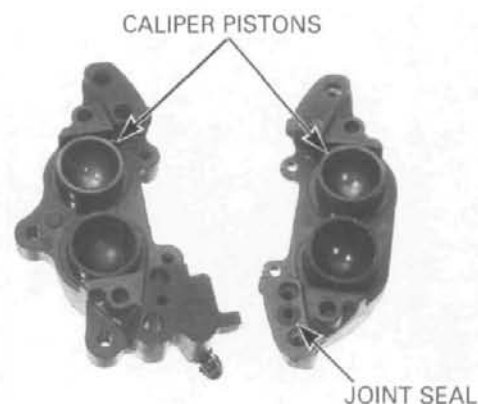
Remove the four caliper assembly bolts and separate the caliper halves.



Mark the pistons to ensure correct reassembly.

Remove the following:

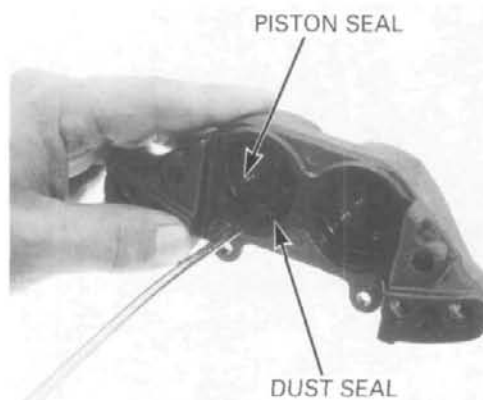
- Joint seals
- Caliper piston A
- Caliper piston B



Be careful not to damage the piston sliding surface.

Push the dust seals and piston seals in and lift them out.

Clean the seal grooves with clean brake fluid.



INSPECTION

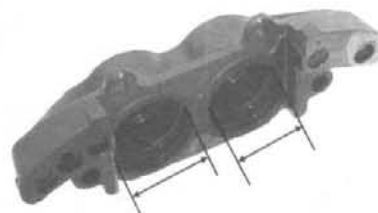
Check the caliper cylinder for scoring or other damage.

Measure the caliper cylinder I.D.

SERVICE LIMITS:

A: 34.02 mm (1.339 in)

B: 32.09 mm (1.263 in)



Check the caliper pistons for scratches, scoring or other damage.

Measure the caliper piston O.D.

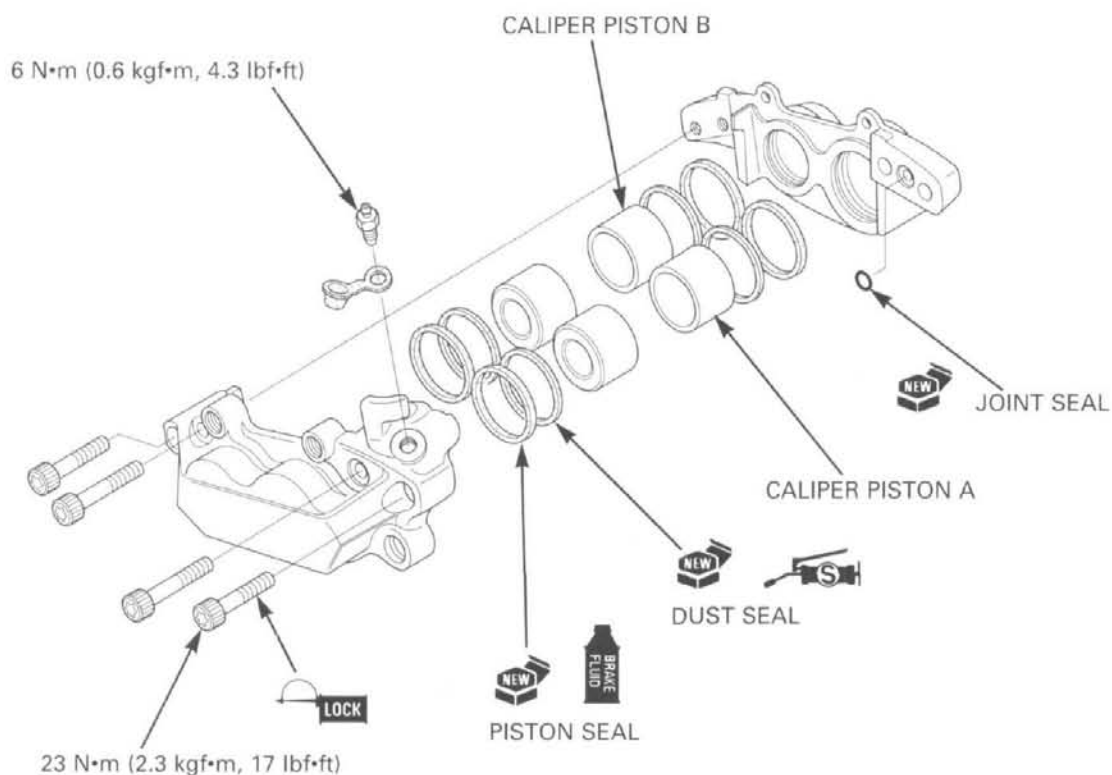
SERVICE LIMITS:

A: 33.794 mm (1.3305 in)

B: 31.869 mm (1.2547 in)



ASSEMBLY

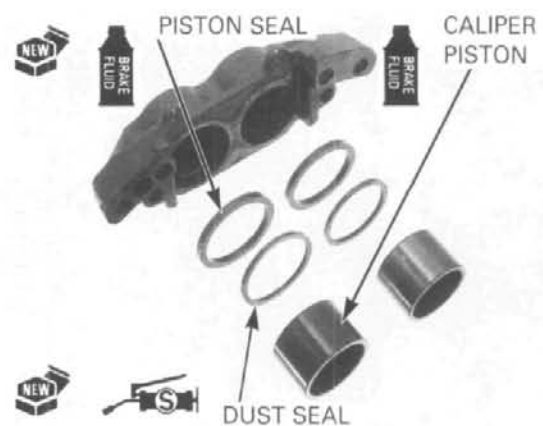


HYDRAULIC BRAKE

Coat the new piston seals with clean brake fluid.
Coat the new dust seals with silicone grease.

Install the piston and dust seals into the grooves in the caliper body.

Coat the caliper pistons with clean brake fluid and install them into the caliper cylinder with their open ends toward the pad.



Install the new joint seal into the fluid passage on caliper.



Assemble the caliper halves.
Apply a locking agent to the caliper assembly bolt threads.
Install and tighten the caliper assembly bolts to the specified torque.

TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)



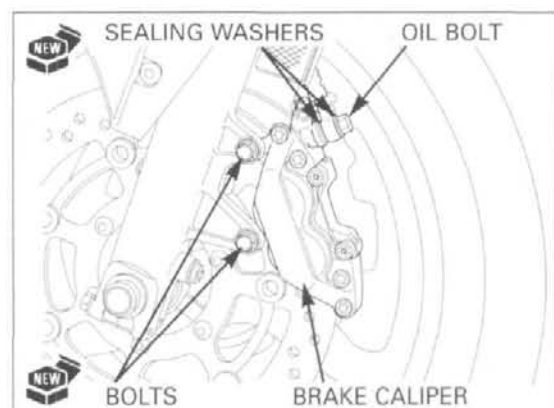
INSTALLATION

Install the brake pads and caliper onto the fork leg (page 15-6).

Install and tighten the new caliper mounting bolts to the specified torque.

TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)

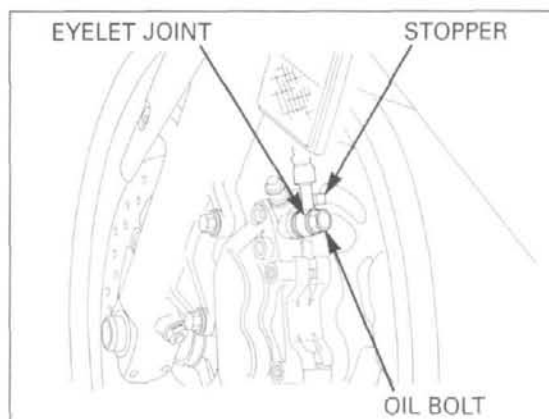
Install the brake hose eyelet to the caliper body with two new sealing washers and oil bolt.



Push the brake hose eyelet to the stopper on the caliper, then tighten the oil bolt to the specified torque.

TORQUE: 34 N·m (3.5 kgf·m, 25 lbf·ft)

Fill and bleed the front brake hydraulic system (page 15-4).



REAR BRAKE CALIPER

REMOVAL

Drain the rear brake hydraulic system (page 15-5).

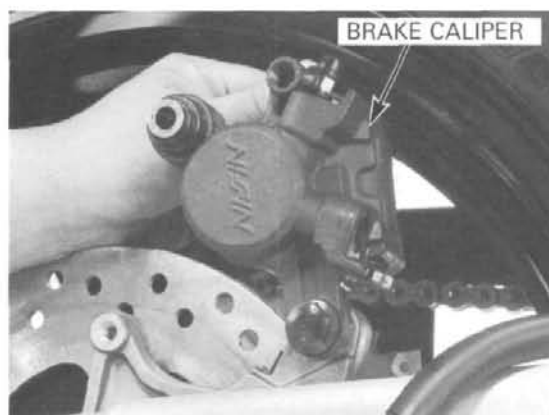
Avoid spilling fluid on painted, plastic, or rubber parts. Place a rag over these parts whenever the system is serviced.

Remove the oil bolt, sealing washers and brake hose eyelet joint.

Remove the caliper bracket bolt and the brake pads (page 15-8).

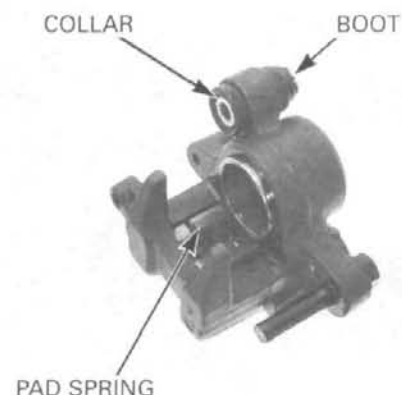


Pivot the caliper up and remove it.



DISASSEMBLY

Remove the pad spring, collar and boot from the caliper body.



HYDRAULIC BRAKE

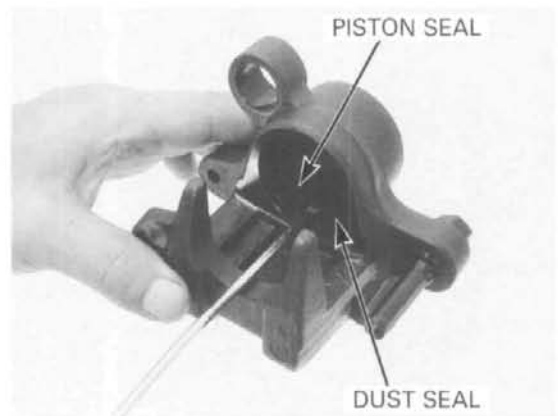
Do not use high pressure air or bring the nozzle too close to the inlet.

Place a shop towel over the piston.
Position the caliper body with the piston down and apply small squirts of air pressure to the fluid inlet to remove the piston.



Be careful not to damage the piston sliding surface.

Push the dust seal and piston seal in and lift them out.
Clean the seal grooves with clean brake fluid.



INSPECTION

Check the caliper cylinder for scoring or other damage.

Measure the caliper cylinder I.D.

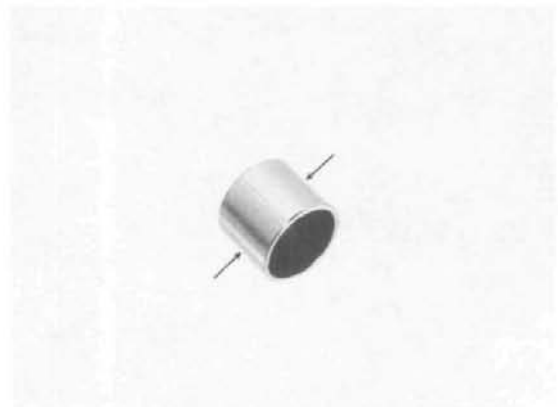
SERVICE LIMIT: 38.24 mm (1.506 in)



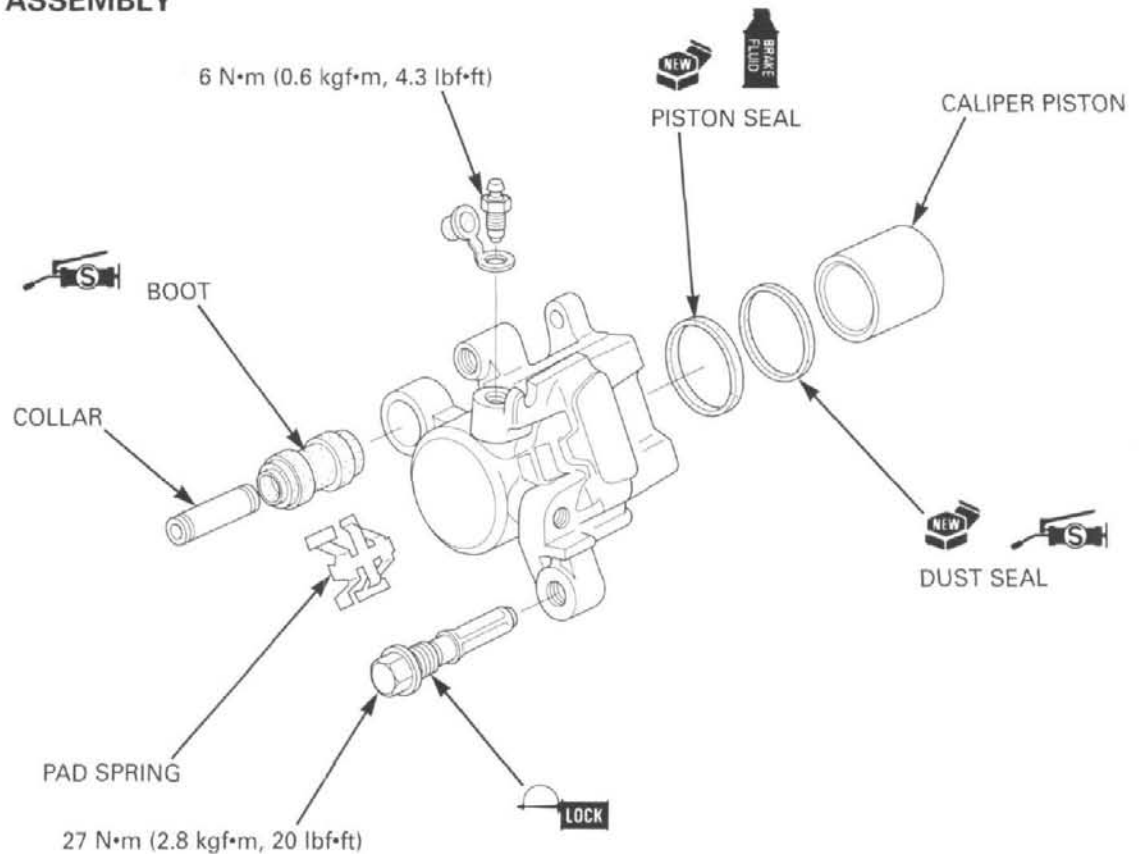
Check the caliper pistons for scratches, scoring or other damage.

Measure the caliper piston O.D.

SERVICE LIMIT: 38.09 mm (1.500 in)



ASSEMBLY



Coat the new piston seal with clean brake fluid.
Coat the new dust seal with silicone grease.

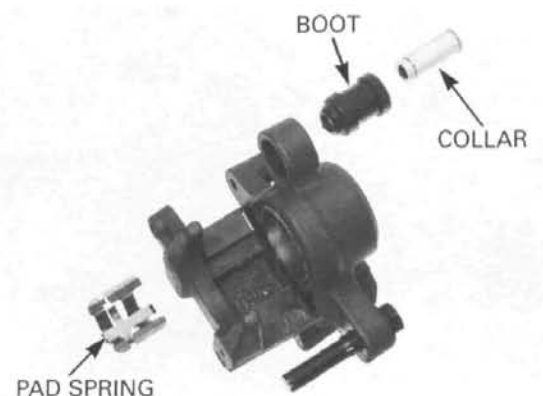
Install the piston seal and dust seal into the groove of the caliper body.

Coat the caliper piston with clean brake fluid and install it into the caliper cylinder with its open end toward the pad.



Install the pad spring into the caliper body.
If the caliper and bracket pin boots are hard or deteriorated, replace them with new ones.

Apply silicone grease to the inside of the bracket pin boot.
Install the bracket pin boot and collar into the caliper.



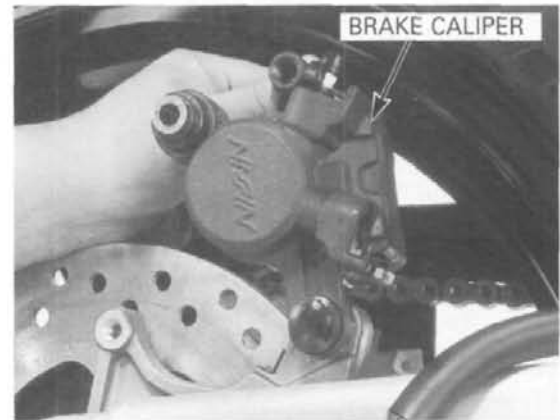
HYDRAULIC BRAKE

Install the pad retainer into the bracket.

INSTALLATION

Apply silicone grease to the caliper pin and install the caliper onto the bracket.

Install the brake pads (page 15-8).



Install and tighten the caliper bracket bolt to the specified torque.

TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)

Install the brake hose eyelet to the caliper body with two new sealing washers and the oil bolt. Push the brake hose eyelet to the stopper on the caliper, then tighten the oil bolt to the specified torque.

TORQUE: 34 N·m (3.5 kgf·m, 25 lbf·ft)

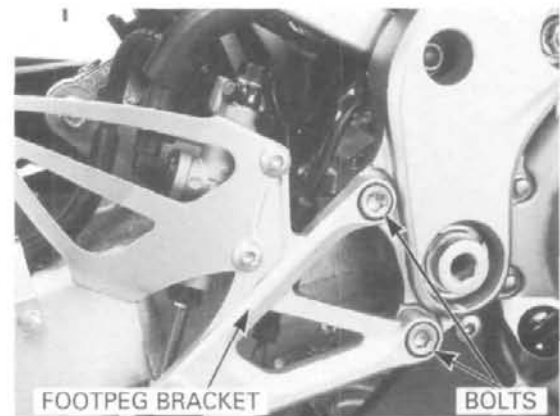
Fill and bleed the rear brake hydraulic system (page 15-4).



BRAKE PEDAL

REMOVAL

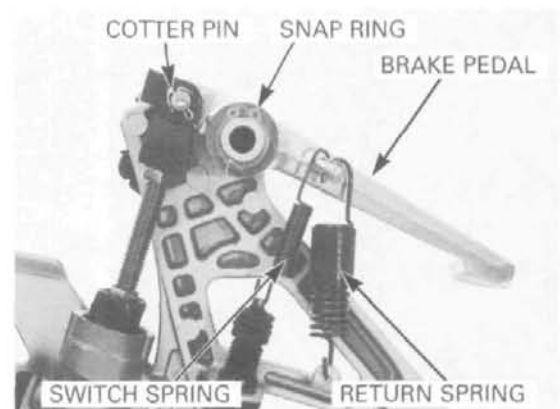
Remove the main footpeg bracket mounting bolts and bracket assembly from the lower bracket.



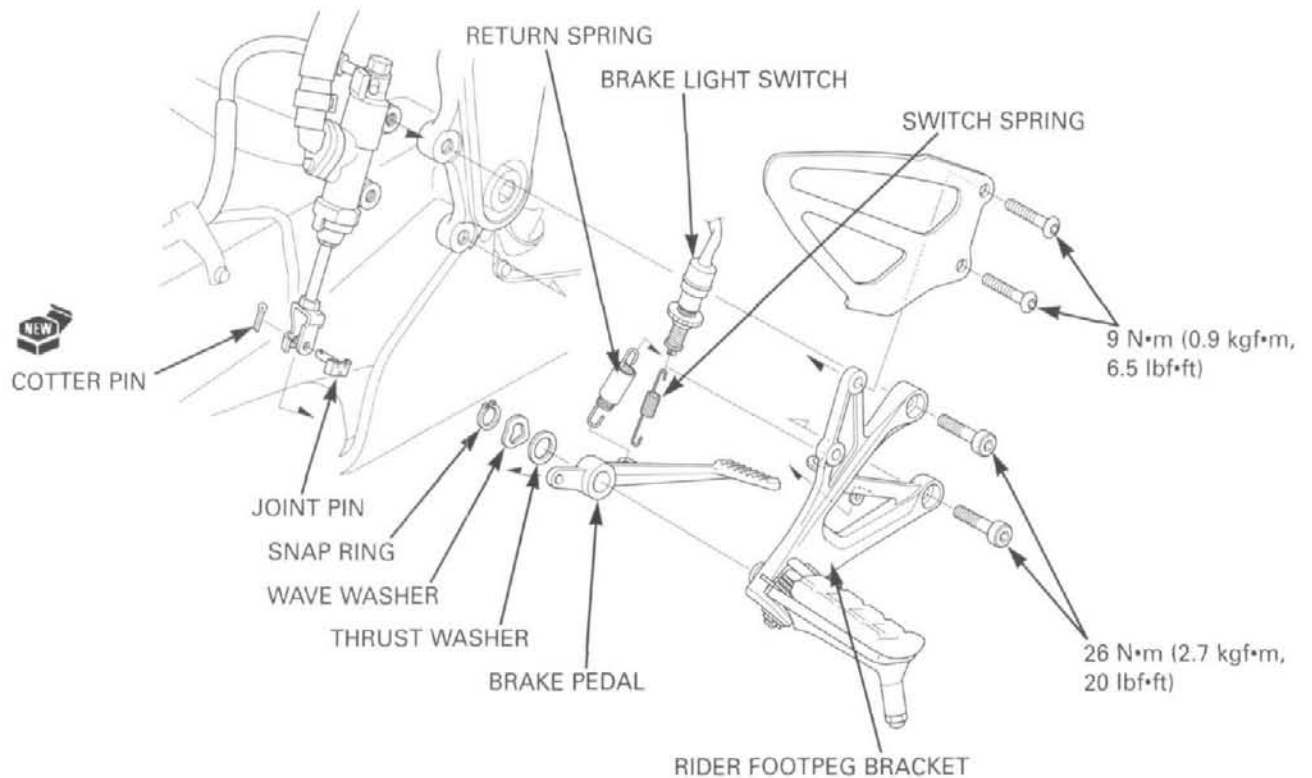
Remove and discard the brake pedal joint cotter pin. Remove the joint pin.

Unhook the return spring and remove the brake light switch from the step holder. Unhook the brake pedal return spring.

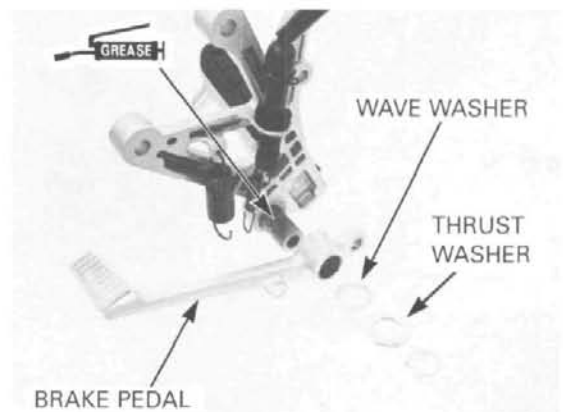
Remove the snap ring, thrust washer, and wave washer. Remove the brake pedal from the pivot.



INSTALLATION

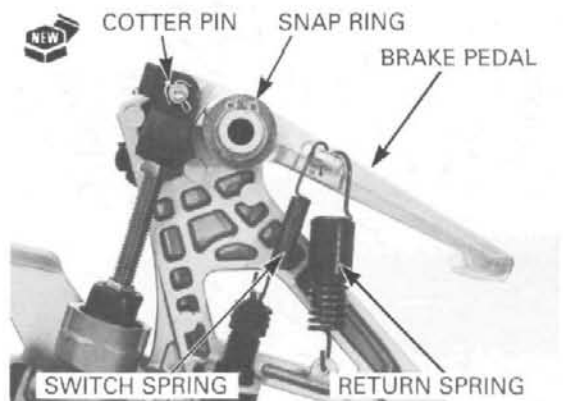


Apply grease to the sliding surface of the brake pedal and footpeg.
Install the brake pedal, wave washer and thrust washer to the pedal pivot.



Secure the pedal pivot with a snap ring.

Hook the brake pedal return spring.
Install the brake light switch and hook the switch spring.
Connect the brake pedal to the push rod lower joint.
Install the joint pin and secure it with a new cotter pin.



HYDRAULIC BRAKE

Install the right rider footpeg bracket assembly onto the frame.
Install and tighten the right rider footpeg bracket socket bolts to the specified torque.

TORQUE: 26 N·m (2.7 kgf·m, 20 lbf·ft)

