

SECTION 9 - CONTROLS/INDICATORS

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Front Brake Lever/ Master Cylinder Assembly

■ **NOTE:** The master cylinder is a non-serviceable component; it must be replaced as an assembly.

REMOVING

1. Place a shop towel under the brake hose union bolt and disconnect the brake hose.

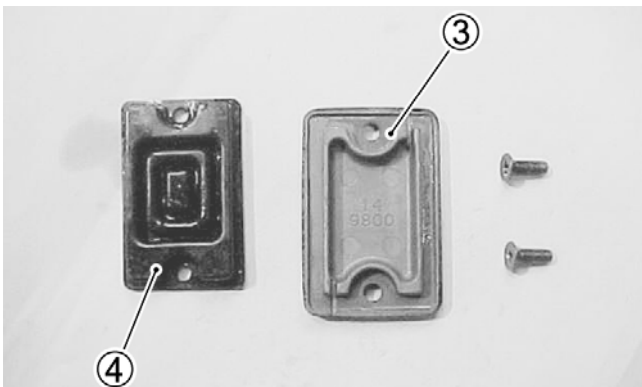
⚠ CAUTION

Brake fluid is highly corrosive. Do not spill brake fluid on any surface of the ATV.



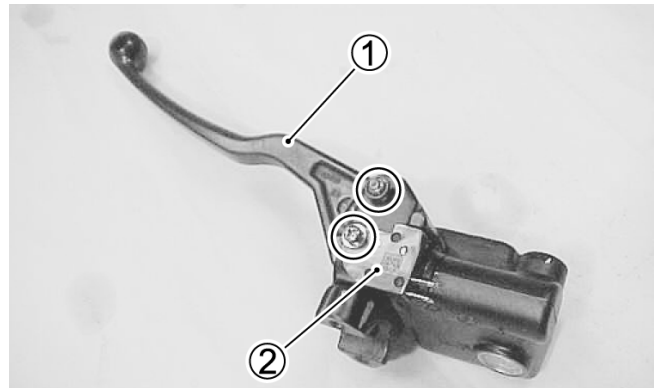
SP422

2. Remove the master cylinder assembly; then remove the reservoir cap (3) and the diaphragm (4). Drain the brake fluid.



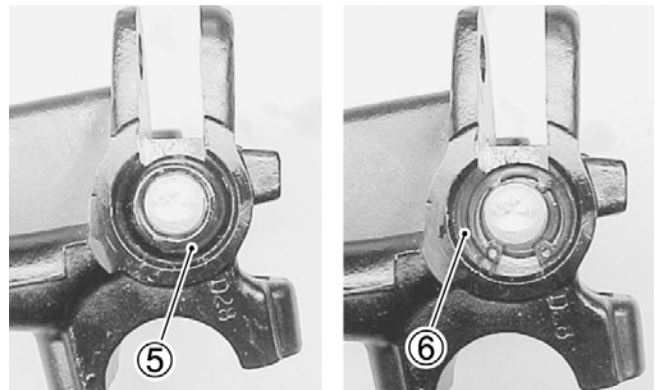
SP423

3. Remove the brake lever (1) and brakelight switch (2).



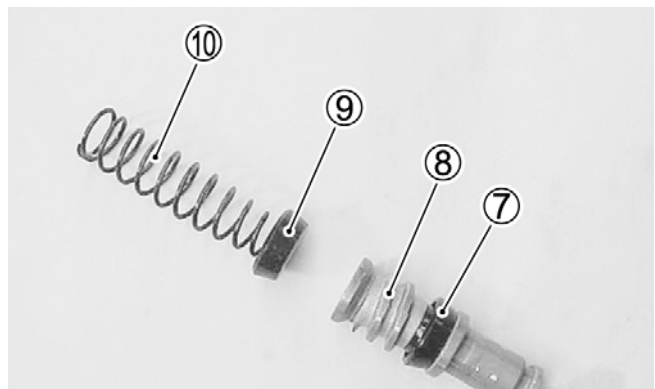
SP424

4. Pull the rubber boot (5) out; then remove the circlip (6).



SP425A

5. Remove the piston (8), secondary cup (7), primary cup (9), and spring (10).



SP427

INSPECTING

■ **NOTE:** Whenever a part is worn excessively, cracked, or damaged in any way, replacement is necessary.

1. Inspect the pivot bolt securing the brake lever for wear.
2. Inspect the brake lever for elongation of the pivot hole.
3. Inspect the reservoir for cracks and leakage.

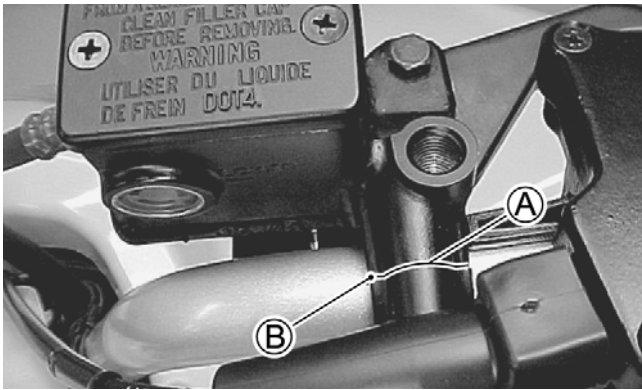
4. Inspect the brake hose for cracks and deterioration and the condition of the fittings (threaded and compression).
5. Inspect the brakelight switch for corrosion, cracks, missing or broken mounting tabs, or broken and frayed wiring.

■ **NOTE:** If the brakelight switch is determined to be not serviceable, see Section 5.

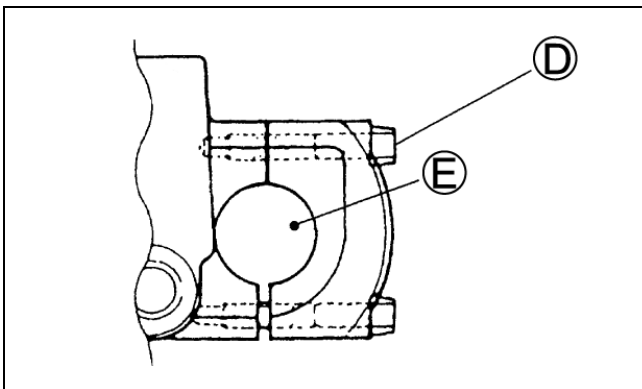
INSTALLING

■ **NOTE:** Wash all master cylinder components in new brake fluid before assembling. Do not dry components.

1. Apply brake fluid to the master cylinder bore; then install the spring/primary cup and the piston/secondary cup into the master cylinder.
2. Install the circlip; then install the rubber boot.
3. Align the master cylinder mount (A) to the punch mark (B) on the handlebar (E); then install the clamp bolts (D).



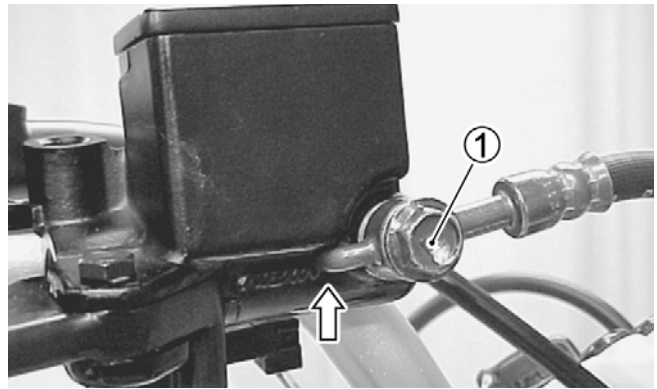
SP436



ATV2206

4. Beginning with the upper clamp bolt, tighten the mounting bolts to specifications.

5. Connect the brake hose union bolt (1) to the master cylinder; then with the stopper against the master cylinder, tighten the brake hose union bolt to specifications.



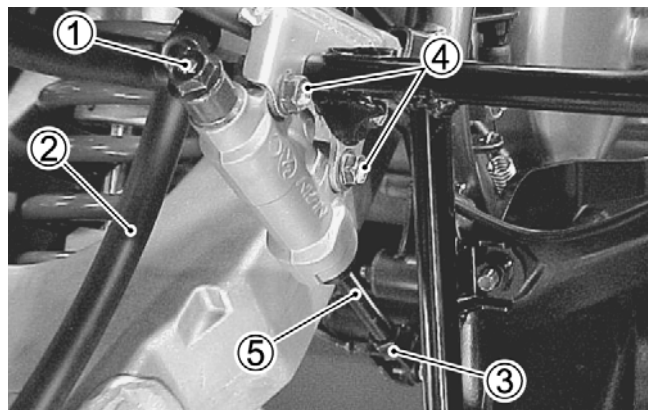
SP437

6. Fill the master cylinder with DOT 4 brake fluid; then bleed the system. See Section 2.

Rear Brake Pedal/Master Cylinder Assembly

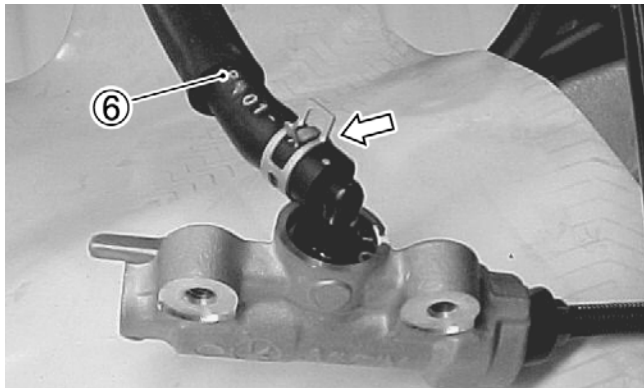
REMOVING

1. Connect a clear plastic hose to the bleeder screw on the rear brake caliper; then loosen the bleeder screw and pump the foot brake until the fluid is pumped into a suitable container.
2. Disconnect the brake hose (2) by removing the union bolt (1). Loosen the jam nut (3); then remove the mounting cap screws (4), turn the push rod (5) out of the connector, and remove the master cylinder.

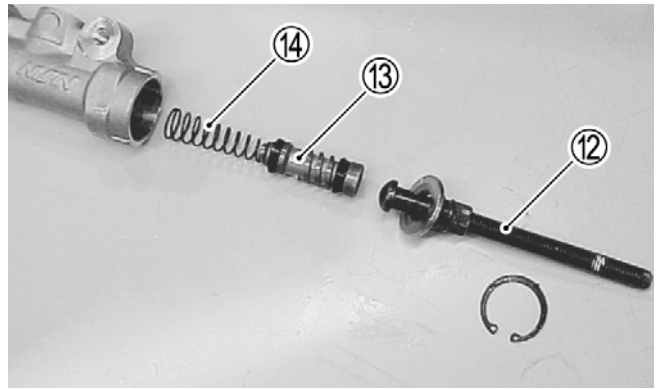


SP428

3. Compress the spring clamp and remove the reservoir hose (6).



SP429

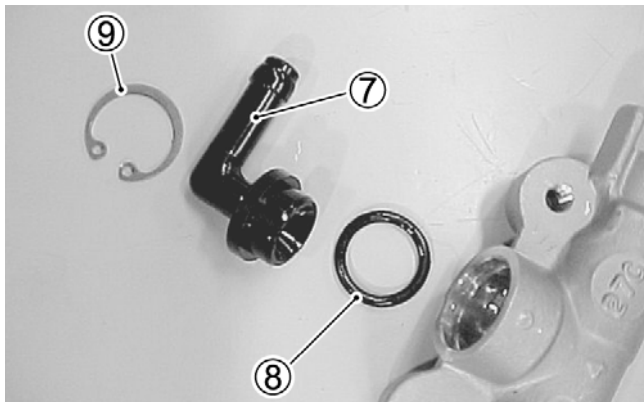


SP433

CAUTION

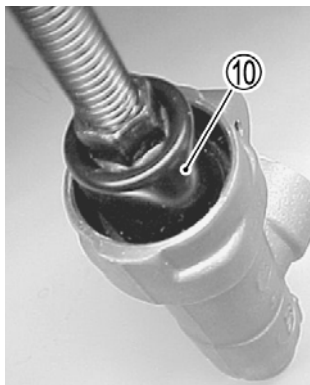
Brake fluid is highly corrosive. Do not spill brake fluid on any surface of the ATV.

4. Remove the circlip (9); then pull out the reservoir elbow fitting (7) and O-ring (8).



SP430

5. Remove the dust boot (10) and circlip (11); then remove the push rod (12), piston with cups (13), and spring (14).



SP431A

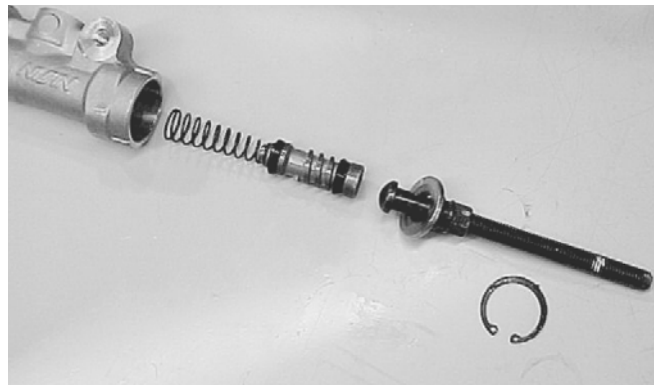
INSPECTING

1. Inspect the master cylinder bore for any scratches or damage.
2. Inspect the piston surface, primary cup, secondary cup, and boot for nicks, wear, or cracks.
3. Replace all damaged parts.

INSTALLING

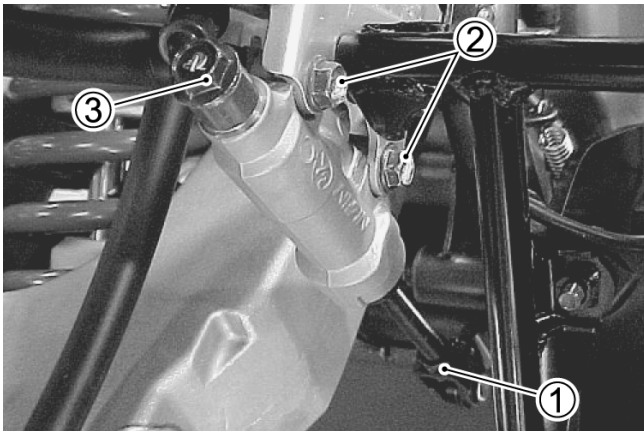
NOTE: Wash all master cylinder components in new brake fluid before assembling. Do not dry components.

1. Apply brake fluid to the master cylinder bore; then install the piston with cups.
2. Install the push rod and secure with circlip; then coat the push rod with multipurpose grease.



SP434

3. Install the O-ring; then place the reservoir elbow fitting into the master cylinder and secure with the circlip.
4. Tighten the master cylinder push rod lock nut (1), master cylinder mounting cap screws (2), and the brake hose union bolt (3) to specifications.



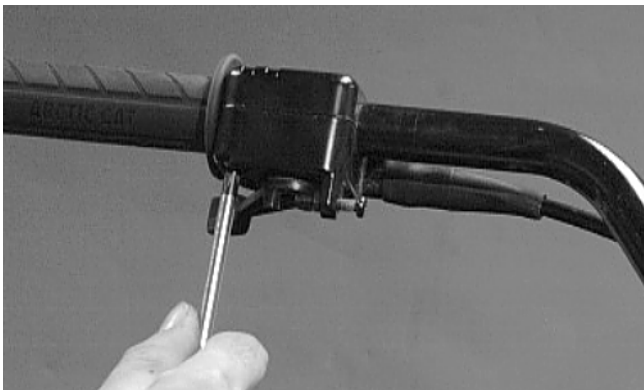
SP435

5. Install the reservoir tank hose; then fill the master cylinder reservoir with DOT 4 brake fluid and bleed the system. See Section 2.

Throttle Control

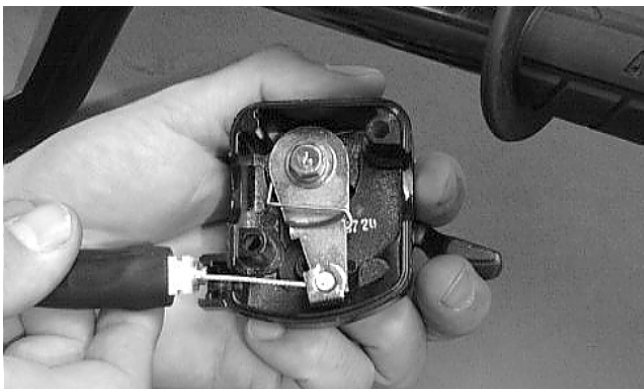
REMOVING

1. Remove the two machine screws securing the throttle control to the handlebar.



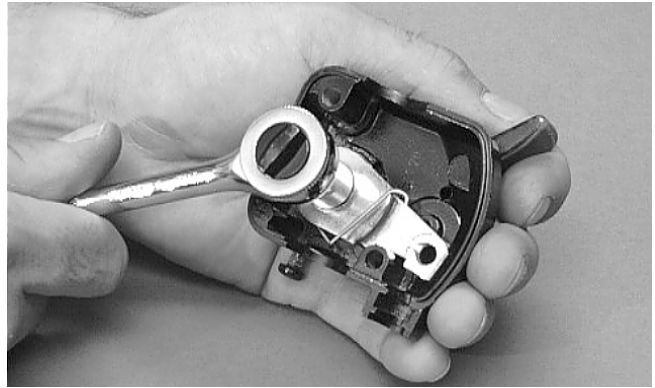
AL610D

2. Slide the grommet out of the lower half of the throttle control; then remove the cable from the actuator arm.



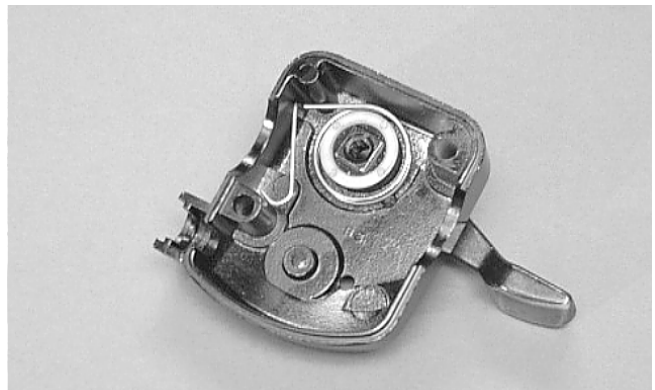
AF676D

3. Remove the cap screw, lock washer, and washer securing the actuator arm to the throttle control lever.



AF677D

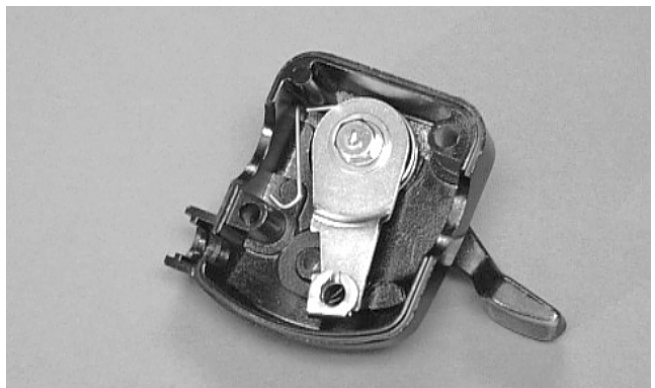
4. Remove the actuator arm and account for a bushing. Note the position of the return spring for installing purposes.



AF678D

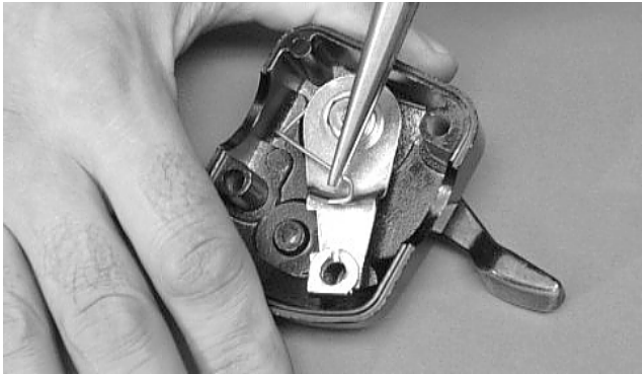
INSTALLING

1. Place the return spring into the throttle control; then place the bushing and actuator arm into position. Secure with the cap screw, lock washer, and washer.



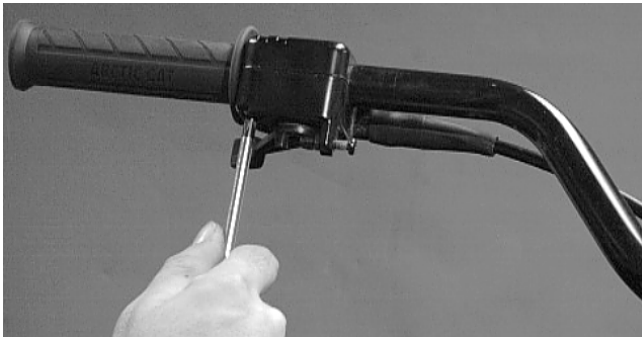
AF679D

2. Using a pair of needle-nose pliers, place the spring into position on the actuator arm.



AF680D

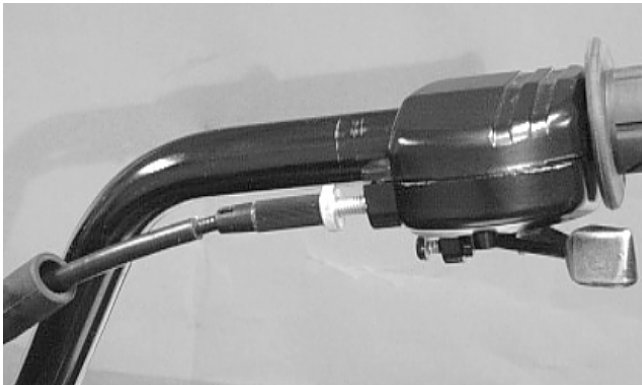
- Place the two halves of the throttle control onto the handlebars and secure with the two machine screws.



AL610D

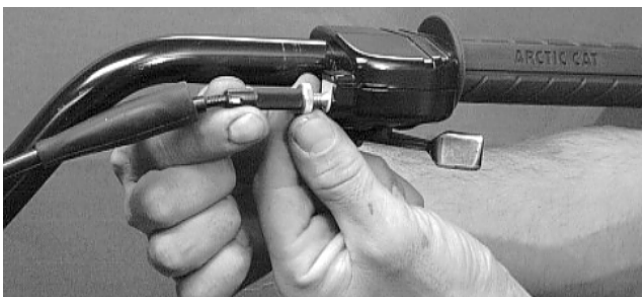
ADJUSTING

- Slide the boot back to reveal the jam nut; then loosen the jam nut.



AF682D

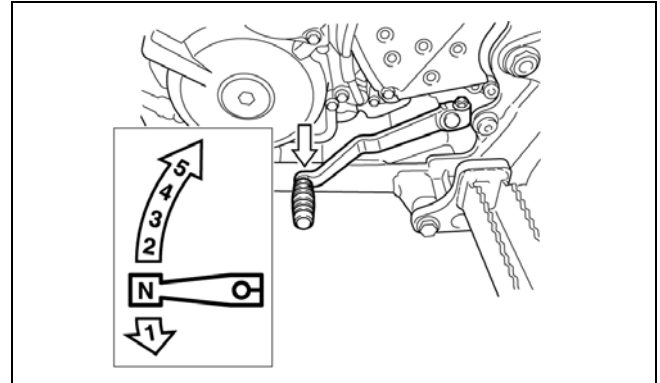
- Rotate the adjuster sleeve until 0.5-1.0 mm (0.02-0.04 in.) is attained.



AL611D

Gearshift Pedal

The gear shift pedal is attached to a ratchet mechanism in the transmission. Each time a gear is selected, the pedal will return to its normal position ready to select the next gear.



ATV2008

To return to neutral, press down repeatedly (once for each gear) on the pedal. Shift into gears by pressing down on the pedal for first gear and reverse gear and lifting up on the pedal for second through fifth gear. The ratchet mechanism makes it impossible to upshift or downshift more than one gear at a time.

Reverse Selector/Lock

REMOVING

- Remove the reverse selector knob mounting screw; then remove the cap screw securing the lower cable housing to the reverse cable bracket.
- Disconnect the cable end from the reverse lock lever; then remove the cable assembly.

INSTALLING

- Engage the lower cable end in the reverse lock lever; then attach the cable housing to the reverse cable bracket and tighten the cap screw securely.
- Route the cable along the upper right frame tube; then attach the reverse selector knob to the frame with the mounting screw and tighten securely.
- Replace any cable ties that were removed.