

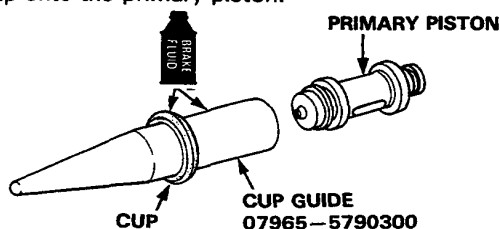
# Master Cylinder

## Reassembly

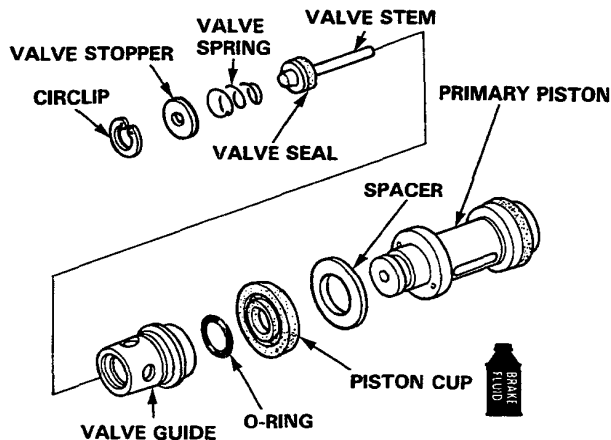
### CAUTION:

- Do not spill brake fluid on the car; it may damage the paint; if brake fluid does contact the paint, wash it off immediately with water.
- To prevent spills, cover the hose joints with rags or shop towels.
- Clean all parts in brake fluid and air dry; blow out all passages with compressed air.
- Use only new clean brake fluid.
- Before reassembling, check that all parts are free of dust and other foreign particles.
- Replace parts with new ones whenever specified to do so.
- Make sure no dirt or other foreign matter is allowed to contaminate the brake fluid.
- Do not mix different brands of brake fluid as they may not be compatible.
- Do not reuse the drained fluid.

1. Coat the Cup Guide (special tool) with brake fluid, install the cup over the Cup Guide, then slide the cup onto the primary piston.

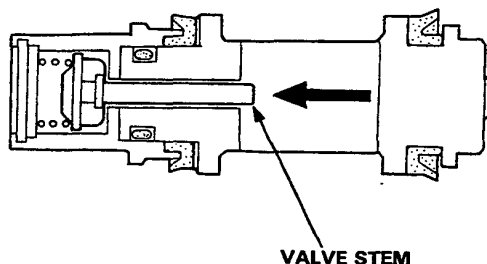


2. Install the spacer, piston cup and O-ring to the primary piston.
3. Install the valve seal on the valve stem with its flat face toward the front.
4. Install the valve stem, valve spring and valve stopper in the valve guide and secure them with the circlip.



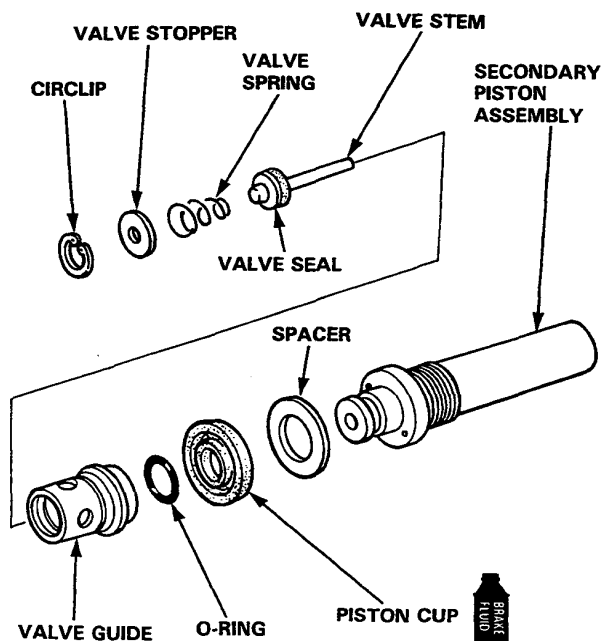
5. Install the valve guide to the primary piston.

### PRIMARY PISTON ASSEMBLY

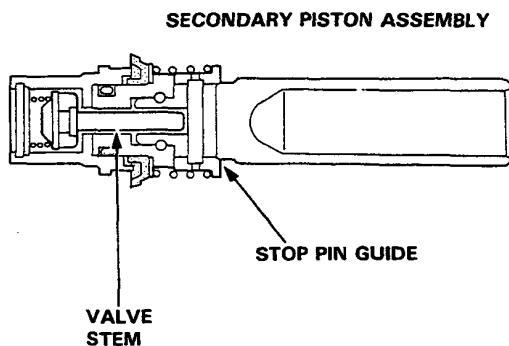


NOTE: Reaching through the primary piston stop bolt hole, lightly press on the valve stem to see if it moves smoothly.

6. Install the spacer, piston cup and O-ring on the secondary piston sub-assembly.
7. Install the valve seal on the valve stem with its flat face toward the front.
8. Install the valve stem, valve spring and valve stopper on the valve guide and secure with circlip.



7. Install the valve guide to the secondary piston assembly.



**NOTE:** Lightly press the stop pin guide to see if the valve stem moves smoothly.

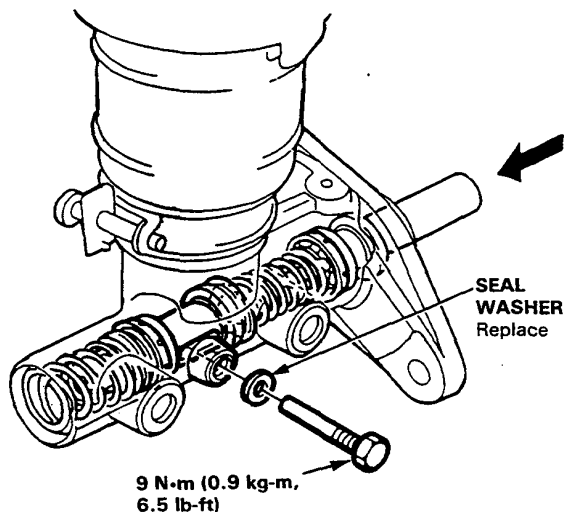
8. Assemble the primary piston assembly, secondary piston assembly and piston guide assembly in the master cylinder body.

**NOTE:** Install the primary piston with the slot on the cylinder facing the stop bolt hole side.

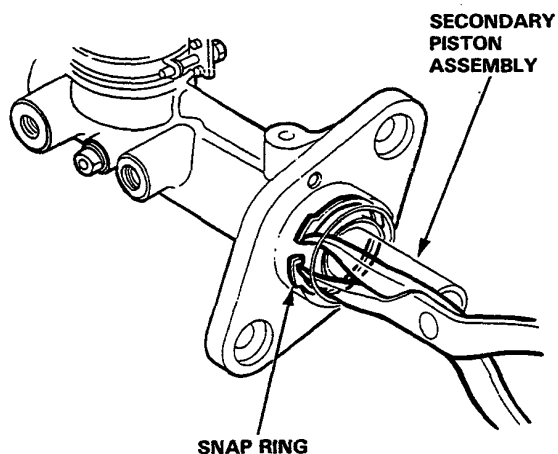
9. Push the secondary piston in until the slot aligns with the stop bolt hole, then install and tighten the stop bolt.

**CAUTION:**

- Replace the stop bolt seal washer with a new one whenever disassembled.
- Apply brake fluid to the inner wall of the cylinder and piston cups, being careful that they are not turned inside out during installation.

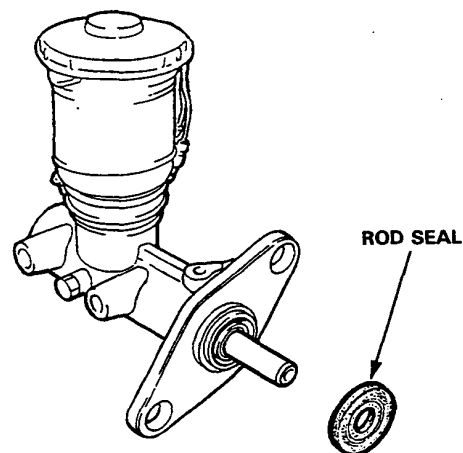


10. Press the secondary piston in and install the snap ring.



**CAUTION:** Avoid damaging the sliding surface of the secondary piston when installing the snap ring.

11. Install the rod seal.



**CAUTION:** Make sure that there is no interference between the brake pipes and other parts when installing.