

Hydraulic System Fault Analysis

Meet ASE Task: (A5-B-5) P-1 Diagnose braking concerns caused by hydraulic malfunctions.

Name _____ Date _____ Time on Task _____

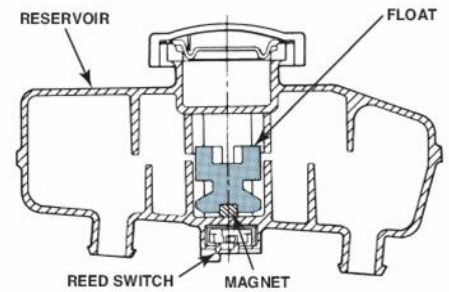
Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

Poor stopping or dragging brakes or pulling can be caused by hydraulic system failure or faults.

_____ 1. Check master cylinder for proper brake fluid level and condition.

_____ 2. Verify proper operation of the base brakes.

- _____ OK
- _____ Pulls to the left during braking (see Step 3).
- _____ Pulls to the right during braking (see Step 3).
- _____ Brakes do not release fully (see Step 4).
- _____ Poor stopping (see Step 5).
- _____ Other brake system concerns (describe)



_____ 3. Pulling can be caused by a stuck caliper piston on the side *opposite* the direction of the pull.

If there is a pull to the right during braking, check the left side caliper.

OK _____ NOT OK _____

If there is a pull to the left during braking, check the right side caliper.

OK _____ NOT OK _____

_____ 4. Brakes that do not fully release can be caused by a fault with the flexible brake hose and/or a stuck caliper piston

Visually check the flexible brake hose. OK _____ NOT OK _____

Check that the caliper piston can be moved into the caliper bore easily.

OK _____ NOT OK _____

_____ 5. Poor stopping can be caused by a stuck caliper or wheel cylinder piston. Check that all hydraulic pistons are free.

- LF = OK _____ NOT OK _____
- RF = OK _____ NOT OK _____
- LR = OK _____ NOT OK _____
- RR = OK _____ NOT OK _____