

# Hydraulic System Fault Analysis

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

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

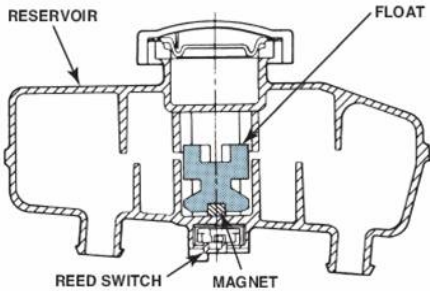
Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

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 \_\_\_\_