

SERVICE TIPS FOR THE PROFESSIONAL TECHNICIAN

The #1 Choice Of
Brake Professionals

4WAL ABS CODES 61,62, and 63 1992-90 GM LIGHT TRUCKS

1990-92 GM light trucks with 4WAL ABS systems can exhibit a code 61, 62, or 63. These codes signal a problem with reset switches which are inside the Electro-Hydraulic Control Unit (EHCU), figure 1. These codes usually occur on vehicles that are three years old, or older.

The codes could be caused by contaminated brake fluid which is allowing debris to flow through the system, or pushing the caliper piston in without opening the bleeder screws. The EHCU can be affected by contaminated fluid because of the very small orifices and passageways. One common problem is for one of the reset switches to become sticky and create a code. If all three codes are present simultaneously, there is probably an electrical ground problem since these switches ground through the brake line. To determine if the contaminated fluid has caused this problem, remove the fluid from the reservoir and look for sediment in the bottom. If sediment is in the bottom of the reservoir, it is also likely to be in the whole system.

Before replacing the EHCU you should attempt to clean the system by flushing and bleeding with brake fluid. If a pressure bleeder is available this is the preferred method. Pressure bleed at 20-25 psi. This will often reset the switch and eliminate the code. Begin by cleaning the bottom of the reservoir. Get as much of the sediment out as possible. Then flush and bleed the entire system. This can require two to three quarts of fluid. **Use only DOT 3 brake fluid.** Always follow the bleeding procedure in the service manual, or ABS manual for the system you are servicing. You will need three valve depressors (F200473). Install one depressor on each High Pressure Bleed Valve and one on the Combination Bleed Valve. After flushing and bleeding perform a function test.

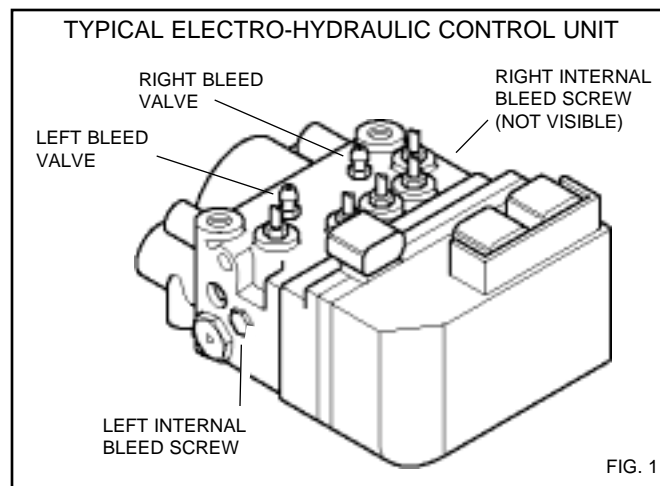


FIG. 1

Clear all codes before performing the function test. Use a TECH 1 or jumper key (F121029). Run three tests to get fluid through the EHCU. After the function testing drive the vehicle and perform three to five ABS stops. The code(s) should then be clear. Check the Brake Bleeding Sequence Guide, an ABS manual or vehicle service manual for further information.

Bleeding Procedure Sequence

- Master cylinder
- EHCU
- Wheel cylinders, right rear then left rear
- Calipers, right front then left front
- Continuously monitor master cyl. fluid level.
- Use only DOT 3 fluid.
- Always bleed system with ignition "OFF", if ignition is on, a false code can be set.

Note: When bleeding the EHCU, open the internal bleed screws only 1/4 to 1/2 turn. Open both internal bleed screws. Then bleed the unit through the top bleeder screws. After bleeding one side through the top bleed screw, close the corresponding internal bleed screw. Then finish the other side.

Caution: If the internal bleed screw(s) is left open, it will cause a loss of brake pedal.