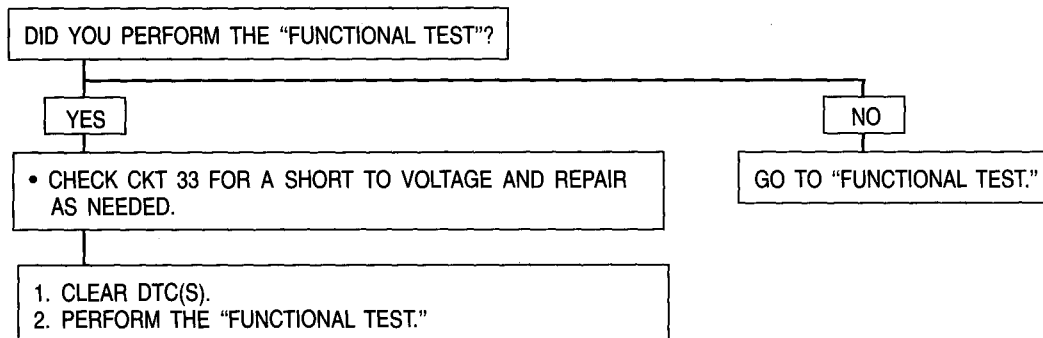


DTC 88 SHORTED BRAKE WARNING LAMP



C0410

ON-VEHICLE SERVICE

SERVICE PRECAUTIONS

4WAL system is basically maintenance free. When doing work on this system, observe the following:

Before doing welding work on the vehicle with an electric welding unit, turn the ignition switch "OFF" and disconnect the BPMV connectors.

Do not use a fast charger for starting the engine. Disconnect the negative battery cable when fast charging. Refer to SECTION 0A.

Never disconnect the battery from the vehicle electrical system with the engine running.

Make sure all wiring harness connectors are properly connected.

Always note the routing, position, mounting, and location of all components, wiring, connectors, hoses, brackets, brake pipes, etc., when servicing the 4WAL system. Speed sensor wiring, routing, and retention is especially important to help prevent false signals due to electrical noise picked up by the wiring. Proper system operation can only be achieved if the system is restored to its original equipment condition.

The above mentioned items do not cover every possibility but must be followed when working on 4WAL. When doing service work, become familiar with 4WAL, how it interrelates with other components on the

CHECKING AND ADDING FLUID

For information on checking and adding fluid to the brake hydraulic system, refer to SECTION 5A.

BLEEDING SYSTEM

The 4WAL brake pressure modulator valve (BPMV) should be bled after replacement or if air is trapped in it. Bleeding should not be necessary if the fluid is not contaminated or no air is in the BPMV. There are internal bleed valves on each side of the BPMV that open internal channels. Open the internal bleed valves 1/4 to 1/2 turn before bleeding. Should the module need bleeding, it must be bled after the master cylinder and before the wheel cylinders and calipers.

NOTICE: The ignition switch must be in the "OFF" position or false trouble codes could be set to memory.

Tools Required:

- J 39177 Combination Valve Pressure Bleeding Tool (Three required)
- TK 00000 Scan Tool
- TK 02650 RWAL/4WAL Cartridge Kit or
- 3000003 Mass Storage Cartridge

A modified J 35856 Combination Valve Pressure Bleeding Tool can be used in place of J 39177 provided that the dimple is removed from it first.