

TEVES IV ABS WARNING LIGHT ON - OPEN CIRCUIT

On Some Teves ABS systems the warning light can come on without an obvious visual cause such as a damaged wheel speed sensor or loose wiring harness. The cause can be brake fluid leakage in the hydraulic control assembly, figure 1. When a scanner is used to retrieve trouble codes on Chrysler, Ford, and General Motors vehicles and the codes pertain to solenoid malfunction, the valve block assembly should be suspected. This may also be referred to as the pressure modulator assembly.

The hydraulic control assembly consists of a reservoir, a pump and motor assembly, and a pressure modulator (solenoid) valve assembly.

There is a metal gasket with O-rings between the pump and valve body, figure 2. The O-rings in the gasket can deteriorate. The repeated cycling of the pump can accelerate the wear or deterioration of the O-rings. If the O-rings have deteriorated sufficiently, brake fluid can leak into the valve body containing the solenoids through the mounting bolt holes. When sufficient fluid has entered this area, it can saturate the flexible printed circuits (ribbon cables) and cause a malfunction in the solenoid valve circuit, figure 3.

If this is the cause of the malfunction, it can easily be established when checking the solenoid valves with an OHM meter. Refer to the proper ABS diagnostic manual for more information. The valve body replacement depends on the manufacturer. Refer to the parts cata-

