



BRAKES

ENGINEERED SOLUTIONS

Bulletin BES 01-24

Subject: Red brake light and Amber ABS light on after failed brake hose, loss of pedal or master cylinder replacement.

Vehicles Involved: Various Aerostar vans, most common on 1995.

Condition: Combination valve illuminates red brake warning light because of hydraulic brake pressure differential, and will not recenter during conventional bleeding.

Repair Procedure: Whenever you have a Aerostar van that has an amber ABS light on, first check the red brake warning light to see if it is only on during the bulb check and engine crank. After performing a visual inspection, attempt to retrieve codes. Remember that on RABS II equipped Aerostar vans the ABS diagnostic connector is located in the middle, underside of the dash toward the driver's side. It is a black wire with an orange tracer attached most often on RABS II systems to a single red wire. Follow the procedure to separate these wires and retrieve codes.

If a code is displayed for the fluid level switch in the master cylinder follow the diagnostic steps in an ABS manual for diagnostics. If you then find yourself at a dead end following the tree chart, realize that the pressure differential switch from the combination valve is in the fluid level wiring circuit. If the valve has switched isolating one half of the brake system, the circuit is grounded illuminating the red light. This will cause the ABS light to also be illuminated.

The valve frequently will not recenter itself when the system is bled at the wheels. The following is a solution that frequently works. Crack the steel brake lines at the combination valve while holding light pressure on the brake pedal. You may find that it is also necessary to tap the side of the combination valve to have the pressure differential plunger recenter itself.