

## 1989 Mitsubishi Galant, Sigma & Mirage 1989 Dodge Colt, Plymouth Champ Booster Check Valve Types/Testing

Mitsubishi used two different types of power brake booster check valves in the 1989 model year. The newer type check valve is built into the vacuum supply hose. Vacuum check valves are designed to maintain a limited vacuum reserve in the power brake booster in order to be able to provide some power assist even after the vacuum supply has been lost. Therefore, it is extremely important on the newer style units that the correct hose be used when replacement is done. (If a hose without the integral check valve is installed on the new style booster, no reserve vacuum will be stored).

### Integral Check Valve Test Procedure:

1. Remove the power brake booster vacuum hose from the vehicle.
2. Using an external vacuum pump, apply vacuum to the booster side of the vacuum hose. If vacuum is held, the check valve is good, so proceed to step
3. Conversely, if there is no vacuum held, the check valve is leaking and the vacuum hose assembly must be replaced. **CAUTION:** Do not attempt to remove the check valve from the vacuum hose assembly.
4. Using the external vacuum pump, apply vacuum to the manifold side of the vacuum hose. No vacuum should be held. If there is vacuum, the vacuum line of the check valve is plugged and the vacuum hose assembly must be replaced. **CAUTION:** Do not attempt to clean the vacuum hose or check valve.

