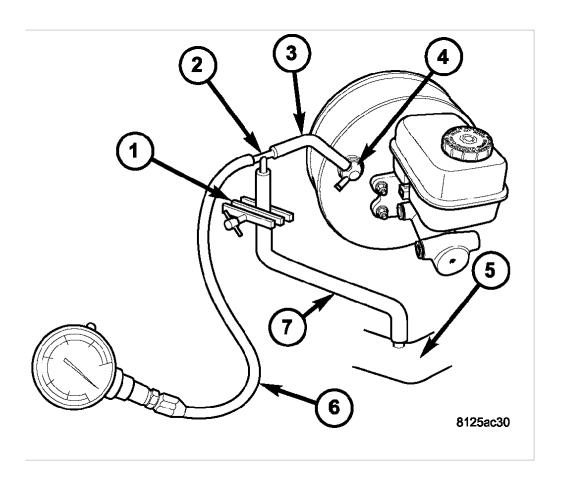
2006 Dodge or Ram Truck RAM 2500 Truck 4WD L6-5.9L DSL Turbo VIN C
Vehicle > Brakes and Traction Control > Power Brake Assist > Vacuum Brake Booster > Testing and Inspection

COMPONENT TESTS AND GENERAL DIAGNOSTICS

MASTER CYLINDER/POWER BOOSTER

- 1. Start engine and check booster vacuum hose connections. A hissing noise indicates vacuum leak. Correct any vacuum leak before proceeding.
- 2. Stop engine and shift transmission into Neutral.
- 3. Pump brake pedal until all vacuum reserve in booster is depleted.
- 4. Press and hold brake pedal under light foot pressure. The pedal should hold firm, if the pedal falls away master cylinder is faulty (internal leakage).
- 5. Start engine and note pedal action. It should fall away slightly under light foot pressure then hold firm. If no peda action is discernible, power booster, vacuum supply, or vacuum check valve is faulty. Proceed to the POWER BOOSTER VACUUM TEST.
- 6. If the POWER BOOSTER VACUUM TEST passes, rebuild booster vacuum reserve as follows: Release brake pedal. Increase engine speed to **1500 rpm**, close the throttle and immediately turn off ignition to stop engine.
- 7. Wait a **minimum of 90 seconds** and try brake action again. Booster should provide two or more vacuum assisted pedal applications. If vacuum assist is not provided, booster is faulty.

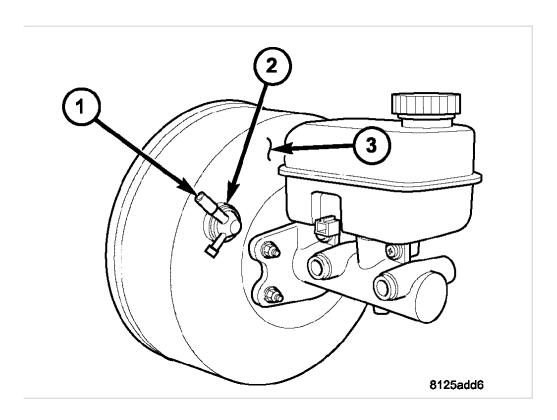
POWER BOOSTER VACUUM TEST



1. Connect vacuum gauge (6) to booster check valve (4) with short length of hose (3) and T-fitting (2).

- 2. Start and run engine at curb idle speed for one minute.
- 3. Observe the vacuum supply If vacuum supply is not adequate, repair vacuum supply.
- 4. Clamp (1) hose (7) shut between intake vacuum source (5) and check valve (4).
- 5. Stop engine and observe vacuum gauge (6).
- 6. If vacuum drops more than one inch HG (33 millibars) within 15 seconds, booster diaphragm or check valve is faulty.

POWER BOOSTER CHECK VALVE TEST



- 1. Disconnect vacuum hose from check valve (1).
- 2. Remove check valve (1) and valve seal (2) from booster (3).
- 3. Use a hand operated vacuum pump for test.
- 4. Apply 15-20 inches vacuum at large end of check valve.
- 5. Plug off the small end to prevent vacuum leakage.
- 6. Vacuum should hold steady. If gauge on pump indicates vacuum loss, check valve is faulty and should be replaced.