

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST J: EXCESSIVE BRAKE PEDAL EFFORT OR VACUUM LEAKS (Continued)

TEST STEP		RESULT	ACTION TO TAKE
J4	POWER SECTION TEST		
	<ul style="list-style-type: none"> Disconnect vacuum hose from booster vacuum check valve. Run engine at idle. Check vacuum supply with a vacuum gauge. 	Above 40.5 kPa (12 in-Hg) and booster does not operate Below 40.5 kPa (12 in-Hg)	REPLACE booster. REPEAT Step J1. SERVICE or REPLACE vacuum hose and vacuum fittings. Also TUNE or SERVICE engine as required. REPEAT Step J1.

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PINPOINT TEST K: VACUUM BRAKE BOOSTER NOISE

TEST STEP		RESULT	ACTION TO TAKE
K1	VERIFY CONDITION		
	<ul style="list-style-type: none"> Run engine at fast idle for 10 seconds or longer. Depress brake pedal and listen for noise. Compare results with known good system. Was a noise present? 	No Yes	Vehicle OK. GO to K2.
K2	PUSH ROD ADJUSTMENT		
	<ul style="list-style-type: none"> Check and adjust booster push rod. Is push rod adjustment OK? 	Yes No	BLEED brake system. REPLACE booster. REPEAT Step K1.

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PINPOINT TEST L: SLOW OR INCOMPLETE BRAKE PEDAL RETURN

TEST STEP		RESULT	ACTION TO TAKE
L1	VERIFY CONDITION		
	<ul style="list-style-type: none"> Run engine at fast idle while making several brake applications. Pull brake pedal rearward with approximately 44.5 N (10 lbs) force. Release the pedal and measure the distance to the toe board. Make a heavy brake application. Release the brake pedal and measure the pedal to toe board distance. The pedal should return to its original position. Did pedal return to original position? 	Yes No	Vehicle OK. GO to L2.
L2	BRAKE PEDAL BINDING		
	<ul style="list-style-type: none"> Check pedal to be sure it is operating freely. Is the pedal operating freely? 	Yes No	REPLACE booster. CORRECT any sticking or binding. REPEAT L2.

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CLEANING AND INSPECTION

Service Precautions

- Grease or any other foreign material must be kept off lining surfaces and braking surfaces of rotor, and external surfaces of hub during service operation. In handling the rotor and caliper assemblies, avoid deformation of brake rotor and nicking or scratching of brake linings.

CAUTION: Do not pry on plastic piston with a screwdriver or other tools, as this will cause chipping.

- If a caliper piston is removed for any reason, piston seal must be replaced. Exercise care not to damage plastic piston by protecting it from contact with any metal or sharp objects.
- During removal and installation of a wheel assembly, exercise care not to interfere with and damage splash shield or bleeder screw fitting.
- Ensure vehicle is centered on the hoist before servicing any front end components to avoid bending or damaging splash shield on full right or left wheel turns.