

PREMATURE PAD WEAR

FRONT WHEEL DRIVE VEHICLES WITH DIAGONALLY SPLIT HYDRAULIC SYSTEMS

The Wagner Training Department has noted certain problems to be more common than others on our diagnostic hotline.

In response to these most common problems, we have developed a series of diagnostic flow charts to assist the experienced technician in solving his problem.

the procedure on the back is intended to help determine why a particular front wheel drive car is experiencing premature front disc pad wear only on one side.

**ONE FRONT BRAKE PAD SET WEARS PREMATURELY
FRONT WHEEL DRIVE CAR ONLY
(DIAGONAL SPLIT HYDRAULICS)**

Pump brake pedal on and off several times then test rolling resistance by rotating wheel with a beam type torque wrench on lug nut.

Open bleeder screw and retest rolling resistance.

No

Strike the caliper 2 or 3 times with rubber mallet. Is drag reduced?

Yes

Rebuild or replace caliper and hardware. Check for bent caliper mounting bracket.

No

Tee in a pair of hydraulic pressure gauges and insure pressure to both front brakes is equal.*

Pressure is not equal

Pressure is equal

Are both pads wearing out equally?

Yes

Rebuild or replace caliper, clean and lube sliding surfaces, insure mounting bracket is not bent or twisted.

No

Premature wear is on ...

Outboard pad

Inboard pad

Caliper not sliding. Clean and lube sliding surfaces, or replace hardware.

Piston not sliding - rebuild or replace caliper.

Yes

Re-establish drag and open opposite side rear brake bleeder screw. Front drag reduced?

Yes

Service or replace master cylinder after insuring master cylinder pistons can fully release.

No

Open fluid line between steel line and rubber hose. Is brake released?

Yes

Replace steel lines

No

Replace hose

Re-bleed brake system using correct procedure and sequence and re-check. Pressure is now equal?

No

Tee in pressure gauge up stream of hose and test - pressure equal?

Yes

Problem solved

No

Is there a brake valve between hose and master cylinder?

Yes

Replace hose

Yes

Check pressure between master cylinder and valve. Is PSI equal?

No

Replace master cylinder

Yes

Replace valve

No

Replace master cylinder

Past experience has shown us that the problem is usually from an imbalanced brake system - caused by pushing caliper piston without opening bleed screw or incorrect bleed procedure or sequence. It is therefore recommended you first correctly bleed this system.

* WAGNER HYDRAULIC PRESSURE GAUGE KIT WITH TWO (2) GAUGES AND ADAPTERS - P200400. BE SURE TO CHECK PRESSURE WITH BRAKE APPLIED AND WHEN RELEASED.