



NUMBER: 05-001-18

GROUP: 05 - Brakes

DATE: January 10, 2018

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THE wiTECH SOFTWARE IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.

SUBJECT:

Brake Booster Corrosion - X74 Warranty Extension

OVERVIEW:

This bulletin involves testing the power brake booster for leaks and possibly replacement.

MODELS:

2011 - 2014	(WD)	Dodge Durango
2011 - 2014	(WK)	Jeep Grand Cherokee

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA, LATAM, EMEA and APAC.

NOTE: This bulletin applies to vehicles built on or before September 09, 2013 (MDH 0909XX).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that the following Diagnostic Trouble Code (DTC) has been set:

- C0021-02 - Brake Booster - General Signal Failure.

Customers may also describe one or more of the following:

- A vacuum leak from the power brake booster, causing a brake Malfunction Indicator Lamp (MIL).
- High brake pedal effort.
- Intermittent activation of the Antilock Brake System (ABS).

PARTS REQUIRED:

Qty.	Part No.	Description
1 (AR)	CBXNP141AC	Brake Booster
1 (AR)	CBXNP142AA	Brake Booster Installation Kit

DIAGNOSIS:

If the customer describes the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.

1. Has **Recall T59** been completed?
 - YES>>> Perform the power brake booster diagnosis and testing procedure. Proceed to [Step 2](#).
 - NO>>> This Warranty Extension does not apply. **Perform Recall T59.**
2. Using the wiTECH, connect the wiTECH micro pod II to the vehicle data link connector.
3. Place the ignition in the “Run” position.
4. Starting at the “Vehicle Selection” screen, select the appropriate vehicle.
5. Select the “ABS” icon from the topology screen.
6. Select the “Data” tab.
7. Monitor the “Vacuum Sensor” value on the wiTECH list ([Fig. 1](#)).

The screenshot shows the wiTECH II software interface. The left sidebar has 'ABS' selected. The main area shows a 'Data' tab with a table of sensor readings. A red oval highlights the 'Vacuum Sensor' row, which shows a value of 406 millibars.

Name	Unit	Min	Max	Type	Refresh
Vacuum	mmHg	0	760	Sensor	Refresh
Wheel Speed Front Left	km/h	0	200	Sensor	Refresh
Wheel Speed Front Right	km/h	0	200	Sensor	Refresh
Wheel Speed Rear Left	km/h	0	200	Sensor	Refresh
Wheel Speed Rear Right	km/h	0	200	Sensor	Refresh
Vehicle Speed	km/h	0	200	Speed/Sensor	Refresh
Brake Pressure	bar	0	10	Sensor	Refresh
Vacuum Sensor	mmHg	0	760	Sensor	Refresh
Supply Voltage Pump	V	0	14	Sensor	Refresh
Supply Voltage Valve	V	0	14	Sensor	Refresh
Spring Brake Status	km/h	0	200	Sensor	Refresh
Wheel Slip	%	0	100	Sensor	Refresh
Wheel Slip Control Status	km/h	0	200	Sensor	Refresh
Wheel Slip Control	km/h	0	200	Sensor	Refresh
Brake Fluid Pressure	bar	0	10	Sensor	Refresh
ABS Modulator	mmHg	0	760	Sensor	Refresh

Fig. 1

wiTECH II, ABS Screen, Data Tab, Vacuum Sensor Monitoring

8. Start the engine and allow it to idle for two minutes.
9. **NOTE: The vacuum supply reading should not less than 406 millibars (6 psi). A reading lower than 406 millibars (6 psi) may indicate a problem with the vehicle vacuum system.** Observe the vacuum supply.
10. **NOTE: Do not touch the brake pedal while performing this step.** Turn the vehicle off and place the ignition in the “Run” position within five seconds. Immediately record the vacuum reading.
11. Wait 55 seconds then record the vacuum reading again.
12. Did the vacuum reading change by more than 40 millibars (.6 psi)?
 - YES>>> Continue to the Repair Procedure. Proceed to [Step 1](#).
 - NO>>> This bulletin does not apply. Further diagnosis should be performed.

REPAIR PROCEDURE:

NOTE: Ensure the water shield is correctly installed with the new brake booster. Refer to Recall T59 for proper installation instructions.

1. Replace the power brake booster. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>05 - Brakes/05 - Brakes, Base/Hydraulic/Mechanical/Booster, Power Brake/Removal/Installation.
2. Clear all DTCs that may have been set.

POLICY:

Vehicles included in this Service Bulletin have a 10 year/Unlimited Miles Warranty Extension for this repair. See Warranty Bulletins: U.S. D-18-01, Canada SAB 2018-01, Mexico BG-02-18, or International ID-18-01 for details associated with the warranty extension.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
05-60-01-96	Test Vacuum Brake Booster for Leaks (1 - Semi-Skilled)	4 - Chassis	0.2 Hrs.
05-60-01-97	Test and Replace Vacuum Brake Booster (1 - Semi-Skilled)	4 - Chassis	1.3 Hrs.

FAILURE CODE:

ZZ	Service Action
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