DTC C1292, C1293, or C1296

Circuit Description

The EBCM uses the input from the brake fluid pressure sensor for more accurate braking control during VSES.

Conditions for Running the DTC

C1296 The ignition is ON for 1.2 seconds.

Conditions for Setting the DTC

C1296

One of the following conditions exists:

- The brake fluid pressure sensor signal is greater than 4.9 volts for 2 minutes.
- The brake fluid pressure sensor signal is less than 0.14 volts for 0.1 seconds.

Action Taken When the DTC Sets

- The EBCM disables the VSES for the duration of the ignition cycle.
- The Traction Control and Active Handling indicator turns ON.
- The DIC displays the Service Active Handling message.
- The ABS remains functional.

Conditions for Clearing the DTC

- The condition for the DTC is no longer present and the DTC is cleared with a scan tool.
- The EBCM automatically clears the history DTC when a current DTC is not detected in 100 consecutive drive cycles.

Diagnostic Aids

- Find out from the driver under what conditions the DTC was set (when the DIC displayed the Service Active Handling message). This information will help to duplicate the failure.
- The Snapshot function on the scan tool can help find an intermittent DTC.
- A deceleration cycle consists of the following sequence:
- 1. The vehicle speed is greater than 24 km/h (15 mph).
- 2. The vehicle decelerates more than 8 km/h/second (5 mph/second) for 2 seconds.
- 3. The vehicle speed decelerates to less than 16 km/h (10 mph).

Test Description

The numbers below refer to the step numbers on the diagnostic table.

- 3. Tests for the proper operation of the circuit in the low voltage range.
- 4. Tests for the proper operation of the circuit in the high voltage range. If the fuse in the jumper opens when you perform this test, the signal circuit is shorted to ground.
- 5. Tests for a short to voltage in the 5 volt reference circuit.
- 6. Tests for a high resistance or an open in the low reference circuit.

Step	Action	Values	Yes	No				
Schematic Reference: Antilock Brake System Schematics								
Connector End View Reference: Antilock Brake System Connector End Views								
1	Did you perform the ABS Diagnostic System Check?			Go to <u>Diagnostic</u>				
1			Go to <u>Step 2</u>	System Check - ABS				
	1. Install a scan tool.							
2	2. Turn ON the ignition, with the engine OFF.							
	3. With a scan tool, observe the Brake Fluid Pressure Sensor	0.14-4.9 V						
	Input parameter in the VSES data list.							
	Does the scan tool display that the Brake Fluid Pressure Sensor Input		Go to Diagnostic					
	parameter is within the specified range?		Aids	Go to <u>Step 3</u>				
<u>3</u>	1. Turn OFF the ignition.							
	2. Disconnect the brake fluid pressure sensor connector.							
	3. Turn ON the ignition, with the engine OFF.							
	4. With the scan tool, observe the Brake Fluid Pressure Sensor	0.14 V						
	Input parameter.							
	Does the scan tool indicate that the Brake Fluid Pressure Sensor							
	Input parameter is less than the specified value?		Go to <u>Step 4</u>	Go to <u>Step 10</u>				
<u>4</u>	1. Turn OFF the ignition.							
	2. Connect a 3 amp fused jumper wire between the 5 volt							
	reference circuit of the brake fluid pressure sensor and the							
	signal circuit of the brake fluid pressure sensor.							
	3. Turn ON the ignition, with the engine OFF.	4.9 V						
	4. With the scan tool, observe the Brake Fluid Pressure Sensor							
	Input parameter.							
	Does the scan tool indicate that the Brake Fluid Pressure Sensor							
	Input parameter is greater than the specified value?		Go to <u>Step 5</u>	Go to <u>Step 8</u>				

2. Measure the voltage between the 5 volt reference circuit of 5 V 5 V 3. Measure the voltage measure sensor. Does the voltage measure less the specified value? Go to Step 10 4. Disconnect the negative battery cable. Refer to Battery. Negative Cable Disconnection in Commercing in Engine E So thus 5 Commerciation and Connection in Engine E 6. Electrical. 3. Measure the resistance from the low reference circuit of the brake fluid pressure sensor to a od ground. Does the resistance measure less than the specified value? Go to Step 12 Go to Step 13 7 Wring Systems. Did you find and correct the condition? Go to Step 16 Go to Step 16 Go to Step 13 8 • An open 9 • A short to ground 9 • A short to ground <td< th=""><th></th><th>1. Disconnect the fused jumper wire.</th><th></th><th></th><th></th></td<>		1. Disconnect the fused jumper wire.			
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