



Service Bulletin

File in Section: -

Bulletin No.: 18-NA-124

Date: April, 2018

TECHNICAL

Subject: Malfunction Indicator Lamp Illuminated DTC P206B Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Equinox	2018		All		1.6L LH7	All
GMC	Terrain						

Involved Region or Country	United States, Canada and Mexico
Condition	Some Customers may comment that the Malfunction Indicator Lamp (MIL) is illuminated. They may also comment that a Service Emission System message is displayed in the driver information center. The Technician may observe on a scan tool DTC P206B (Reductant Quality Sensor Circuit Performance) set in the K20 Engine Control Module.
Cause	Some Diesel Exhaust Fluid (DEF) fill equipment (e.g., mobile/portable and commercial filling stations) may create a high level of aeration in the DEF fluid being dispensed into the DEF tank, resulting in micro-bubbles which cling to the B295 Reductant Quality Sensor affecting the ultrasonic operation of the sensor. DTC P206B may occur upon filling the DEF tank, especially if the vehicle is in the ON/RUN position or even several hours or more later depending upon when the Conditions for Running the DTC were met.
Correction	Perform the Service Procedure.

Service Procedure

Notice: While not required, some DEF filling equipment can be sold/equipped with an air/fluid separator, which can help to reduce the likelihood of fluid aeration.

- Ask the Customer if the MIL came ON and the Service Emission System Message occurred immediately after a DEF Tank fill event.
 - ⇒ If the MIL came ON and the Service Emission System Message occurred immediately after a DEF Tank fill event, allow the vehicle to sit overnight in an ambient temperature of at least 50°F (10°C).
- Perform the Diagnostic System Check - Vehicle.
- Is DTC P206B set?
 - ⇒ If only DTC P206B is set, Go to Step 4.
 - ⇒ If any other DTCs are set, Go to Diagnostic Trouble Code (DTC) List - Vehicle in SI.
- Verify that the Reductant Temperature is more than 41°F (5°C).
 - ⇒ If the Reductant Temperature is more than 41°F (5°C), Go to Step 5.

⇒ If the Reductant Temperature is less than 41°F (5°C), allow the vehicle to warm up. Then Go to Step 5.

- Ensure that the Reductant Level is more than 30% in order to ensure that there is at least 1.3 Gallons (5L) in the DEF Tank.

Notice: Turn OFF the vehicle when adding DEF.

- ⇒ If the Reductant Level is less than 30%, slowly add a minimum of 2 Gallons (7.5L) of DEF to the tank. Go to Step 6.
 - ⇒ If the Reductant Level is more than 30%, Go to Step 6.
- Use a scan tool to observe the Reductant Quality Sensor Status and Reductant Concentration.
 - ⇒ If the Reductant Quality Sensor Status displays OK and the Reductant Concentration displays more than 30%, Go to Step 7.
 - ⇒ If the Reductant Quality Sensor Status displays Not Ready and the Reductant Concentration displays ~20.0%, Go to Step 10.
 - Start the engine and idle the vehicle for more than 7 minutes. After 7 minutes, clear the DTC.
 - Turn OFF the vehicle for a minimum of 2 minutes.

9. Start the engine and idle the vehicle for more than 7 minutes to ensure that the DTC is cleared and the Service Emission System message is not displayed on the DIC.
 - ⇒ If the DTC remains cleared and the Service Emission System message is not displayed on the DIC the repair is complete.
10. Take a short drive (approximately 10 minutes), and perform a number of "Stop and Go" events to slosh the DEF fluid within the tank. The sloshing effect will dissipate the air bubbles away from the quality sensor allowing it to function properly.
 - ⇒ If the Service Emission System message on the DIC no longer displays, the diagnostic has passed. Go to Step 12.
 - ⇒ If the Service Emission System message on the DIC continues to display and DTC P206B is still set, Go to Step 11.
11. Start the engine and idle for more than 7 minutes to ensure that the DTC is cleared and the Service Emission System message is not displayed on the DIC.
 - ⇒ If the DTC will not clear and the Service Emission System message continues to display, Refer to DTC P206B in SI.
12. Verify the Reductant Quality Sensor Status displays OK and the Reductant Concentration displays 30% or more, Clear the DTC if still present.

Parts Information

No parts are required for this repair.

Warranty Information

For vehicles repaired under the Emission coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
*4086218	DTC P206B Diagnosis	0.5 hr
*This is a Bulletin Only Labor Operation.		

Version Information

Version	1
Modified	Released April 19, 2018