



# Service Bulletin

Bulletin No.: 19-NA-032

Date: September, 2019

## TECHNICAL

**Subject: Lack of Power and/or Hesitation After Vehicle Has Reached Operating Temperature, Malfunction Indicator Lamp (MIL) Illuminated - DTC P0325 and/or P0330 May Set**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Malibu	2018	2018			1.5L (LFV)	

<b>Involved Region or Country</b>	North America, Israel
<b>Condition</b>	<p>Some customers may comment on one or more of the following conditions when the vehicle has reached operating temperature:</p> <ul style="list-style-type: none"> <li>• Lack of power</li> <li>• Hesitation</li> <li>• MIL illuminated</li> </ul> <p>Some technicians may find one or more of the following DTCs set in the Engine Control Module (ECM):</p> <ul style="list-style-type: none"> <li>• P0325: Knock Sensor 1 Circuit</li> <li>• P0330: Knock Sensor 2 Circuit</li> </ul>
<b>Cause</b>	This condition may be caused by a software anomaly.
<b>Correction</b>	<p>If the VIN is JF190216 and above, reprogram the ECM with the latest software available.</p> <p>If the VIN is JF190215 and below, swap the wiring in the ECM electrical connector between the two knock sensors.</p> <p>⇒ Refer to the Service Procedure below.</p>
<b>Important:</b> If a vehicle, VIN JF190215 and below, needs an engine wiring harness, verify that the vehicle has the most current level of software in the ECM. <b>If it does not</b> , reprogram the ECM to current levels of software, use the first design harness and modify ECM knock sensor wires as outlined in this Service Procedure.	

## Service Procedure

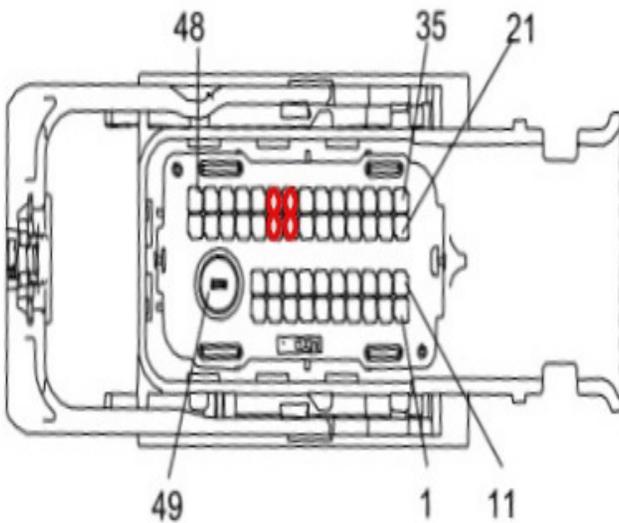
**Note:** Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install a GM Authorized Programming Support Tool to maintain system voltage. Refer to [www.gmdesolutions.com](http://www.gmdesolutions.com) for further information. If not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply. DO NOT connect a battery charger.

1. Program the ECM. Refer to *K20 Engine Control Module: Programming and Setup* in SI.
  - If the VIN is JF190216 or above, no further work is needed.
  - If the VIN is JF190215 or below, continue with procedure.
2. Disconnect the battery negative cable.



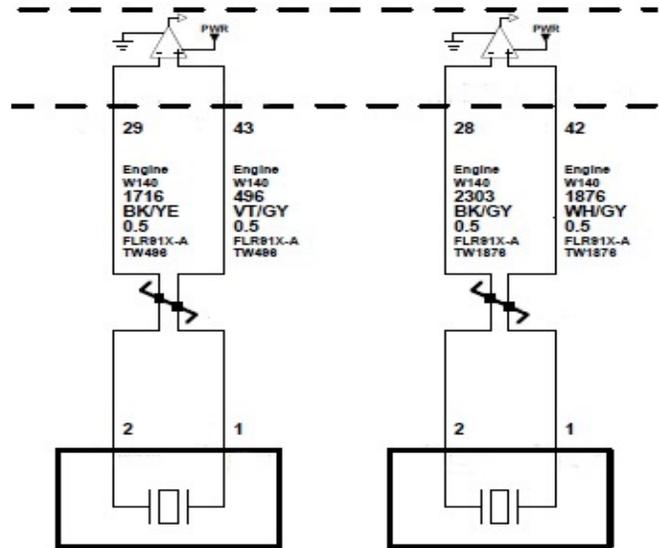
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3. Disconnect all the ECM electrical connectors.
4. Remove the ECM and position aside.



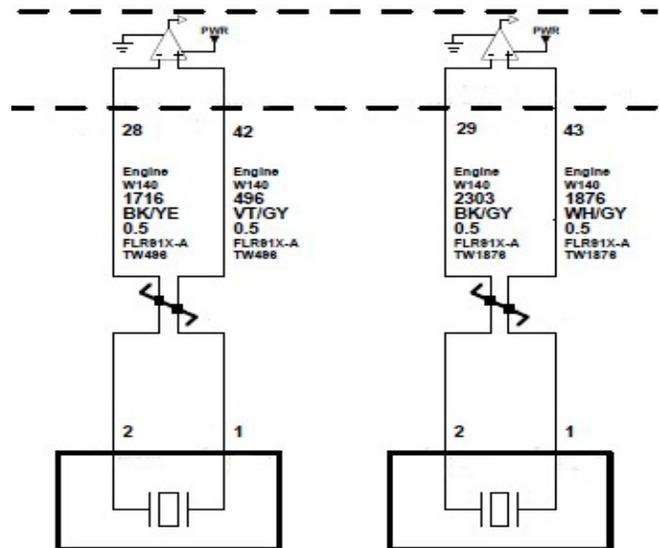
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5. Locate cavity 28, 29, 42 and 43 at the X2 connector. Refer to Document ID#: 5067630.



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6. Verify the following:
  - Cavity 28, BK/GY
  - Cavity 29, BK/YE
  - Cavity 42, WH/GY
  - Cavity 43, VT/GY
7. Remove pin 28 and pin 29.
8. Insert pin 28 into cavity 29 and pin 29 into cavity 28.
9. Remove pin 42 and pin 43.
10. Insert pin 42 into cavity 43 and pin 43 into cavity 42.



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11. Verify the pins are in the new cavity as listed below:
  - Cavity 28, BK/YE
  - Cavity 29, BK/GY
  - Cavity 42, VT/GY
  - Cavity 43, WH/GY

**Parts Information**

No parts are required for this repair.

**Warranty Information**

**Important:** Warranty coverage code E, E2 applies for this module programming event. ECM reprogramming is covered for 8 years/80,000 miles (U.S.) or 8 years/130,000 km (Canada).

**Note:** Only select the Labor Operation that corresponds with the repair performed.

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.

**Warranty Claim Code Information Retrieval**

If the SPS Warranty Claim Code was not recorded on the Job Card, the code can be retrieved in the SPS system as follows:

1. Open TIS on the computer used to program the vehicle.
2. Select and start SPS.
3. Select Settings.
4. Select the Warranty Claim Code tab.

The VIN, Warranty Claim Code and Date/Time will be listed on a roster of recent programming events. If the code is retrievable, dealers should resubmit the transaction making sure to include the code in the SPS Warranty Claim Code field.

Labor Operation	Description	Labor Time
2886128*	Engine Control Module Reprogramming with SPS for Knock Sensor Software	0.5 hr
2886138*	Engine Control Module Reprogramming with SPS for Knock Sensor Software and Wiring Harness Pin Swap	1.5 hrs

\*This is a unique Labor Operation for Bulletin use only.  
 \*To avoid warranty transaction rejections, carefully read and follow the instructions below:

- The SPS Warranty Claim Code must be accurately entered in the "SPS Warranty Claim Code" field of the transaction.
- When more than one Warranty Claim Code is generated for a programming event, it is required to document all Warranty Claim Codes in the "Correction" field on the job card. Dealers must also enter one of the codes in the "SPS Warranty Claim Code" field of the transaction, otherwise the transaction will reject. It is best practice to enter the FINAL code provided by SPS.

<b>Version</b>	3
<b>Modified</b>	Released February 18, 2019 April 15, 2019 – Added Israel to Involved Regions or Country and changed VIN breakpoint references to only show last 8 digits. August 28, 2019 - Added MIL and DTC information to Subject and Condition sections and added an Important and Warranty Claim Code information to the Warranty Information.

Additional Keywords: low, hesitate, sluggish

