



Service Bulletin

Bulletin No.: 20-NA-003

Date: February, 2020

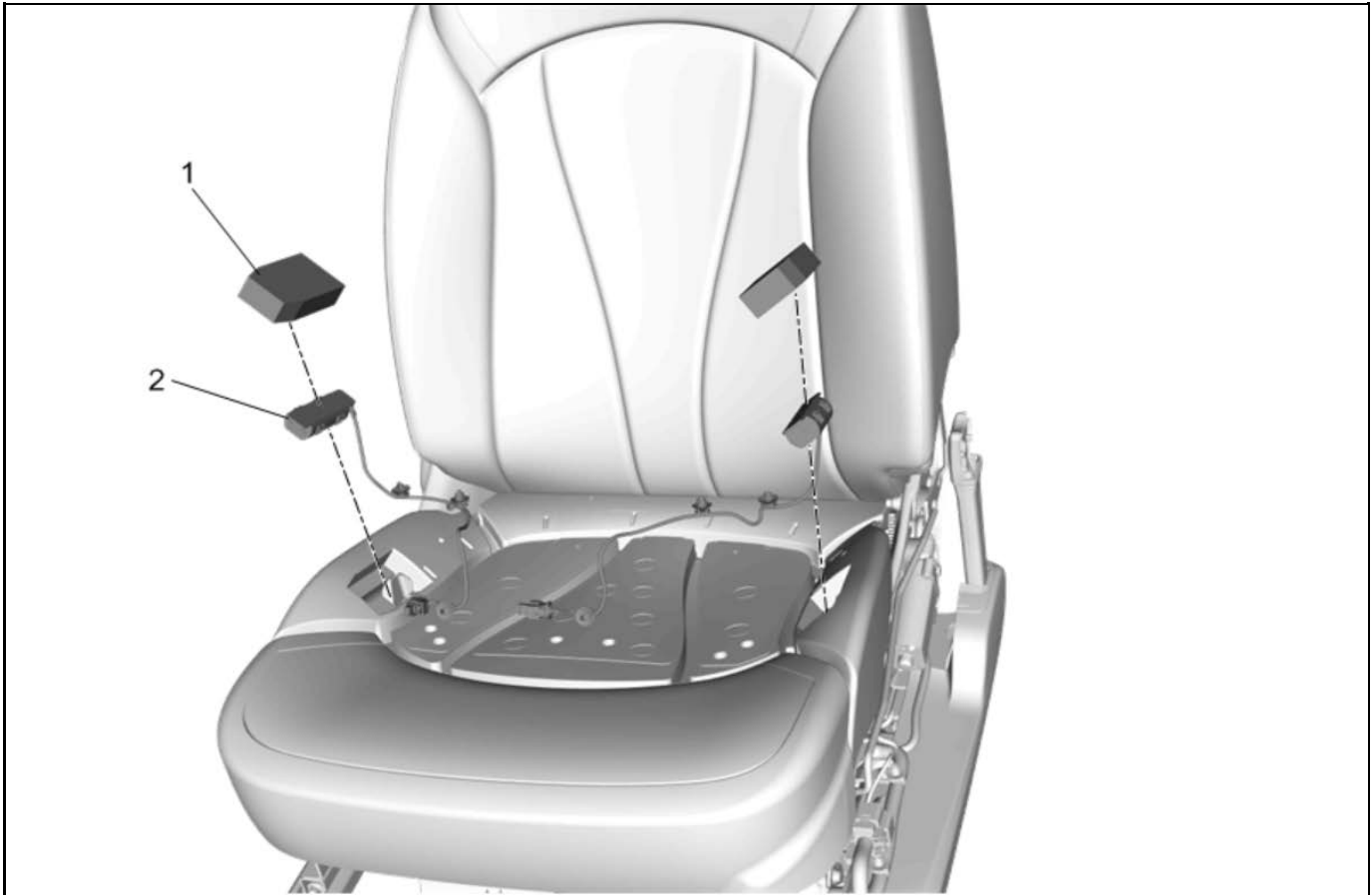
TECHNICAL

Subject: Service Driver Assist Message Illuminated, Front Seat Lane Departure Warning Actuator Inoperative, DTC B172E Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Envision	2016	2019			All	All

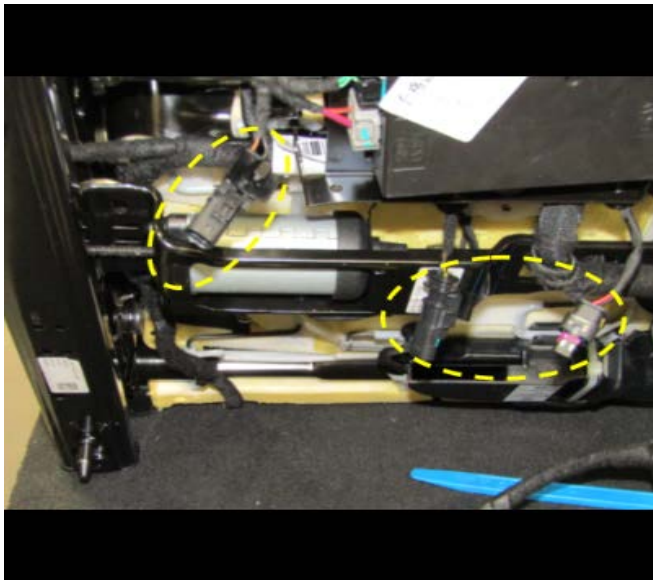
Involved Region or Country	North America
Additional Options (RPOs)	
Condition	Some customers may comment on a Service Driver Assist message illuminated and/or the front seat lane departure warning actuator Inoperative. Technician may find DTC B172E set.
Cause	The cause of the condition may be due to negative inductance energy driven to the actuator, the MSM chip may be overheated and MSM will shut off the port for the actuator.
Correction	Verify the Condition and repair following the steps in the Service Procedure below.

Service Procedure



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1. Replace the TWO front seat lane departure warning actuators (2). Refer to Front Seat Lane Departure Warning Actuator Replacement, in SI.



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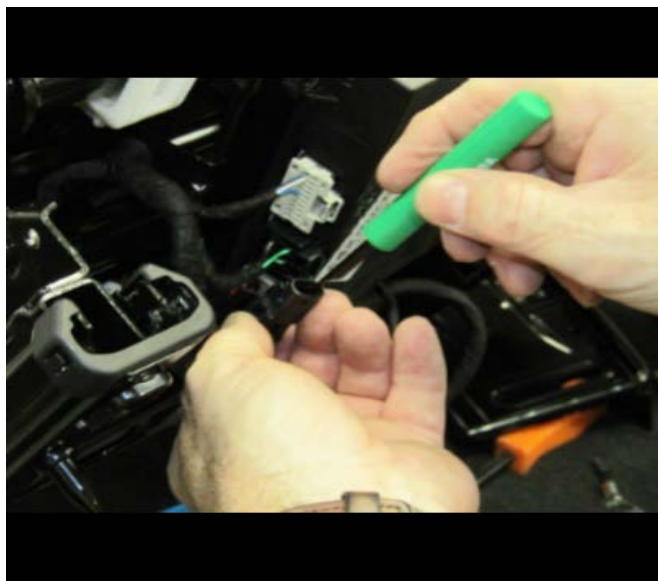
Note: The harness rework is a swapping of the terminal polarity on the actuator connectors (shown circled above). Ensure to complete the rework BEFORE reassembly of the seat.

2. Rework the actuator harness, following the steps below.

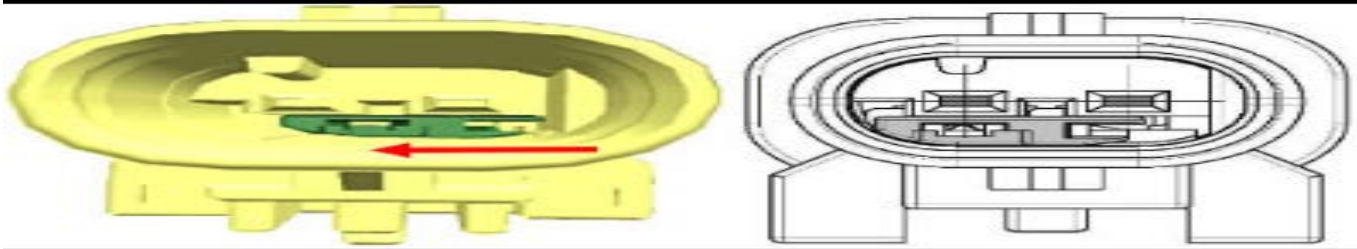


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- 2.1. Partially remove approximately 10 – 12.5 cm (4-5 inch) of the tape from the actuator connector.

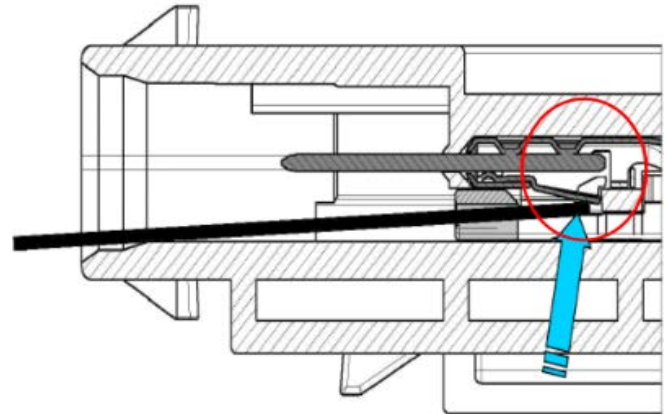
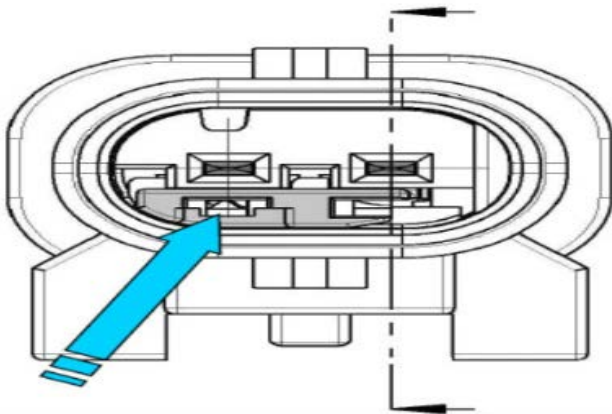


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2.2. Using the removal tool # J-38125-12A, unlock the connector by moving the retainer to the pre-lock position, as shown above.

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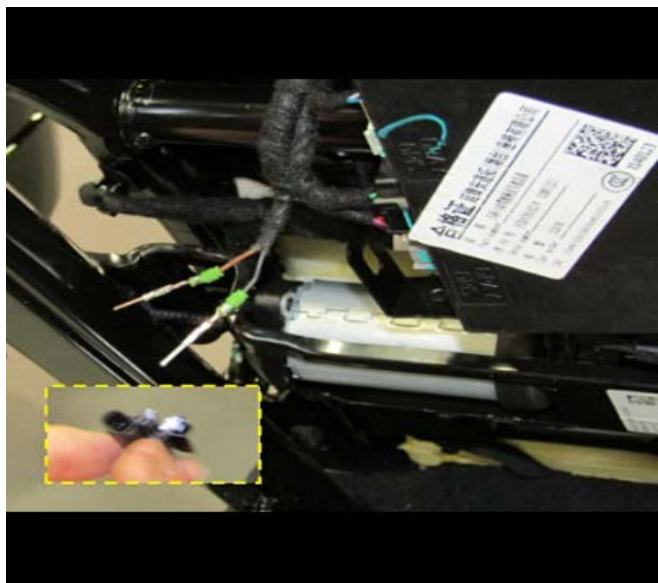
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2.4. Push the terminal spring and pull the wire.

Note: Remove the terminals one at time.

2.3. Insert the removal tool through the GAP, at blue arrow.

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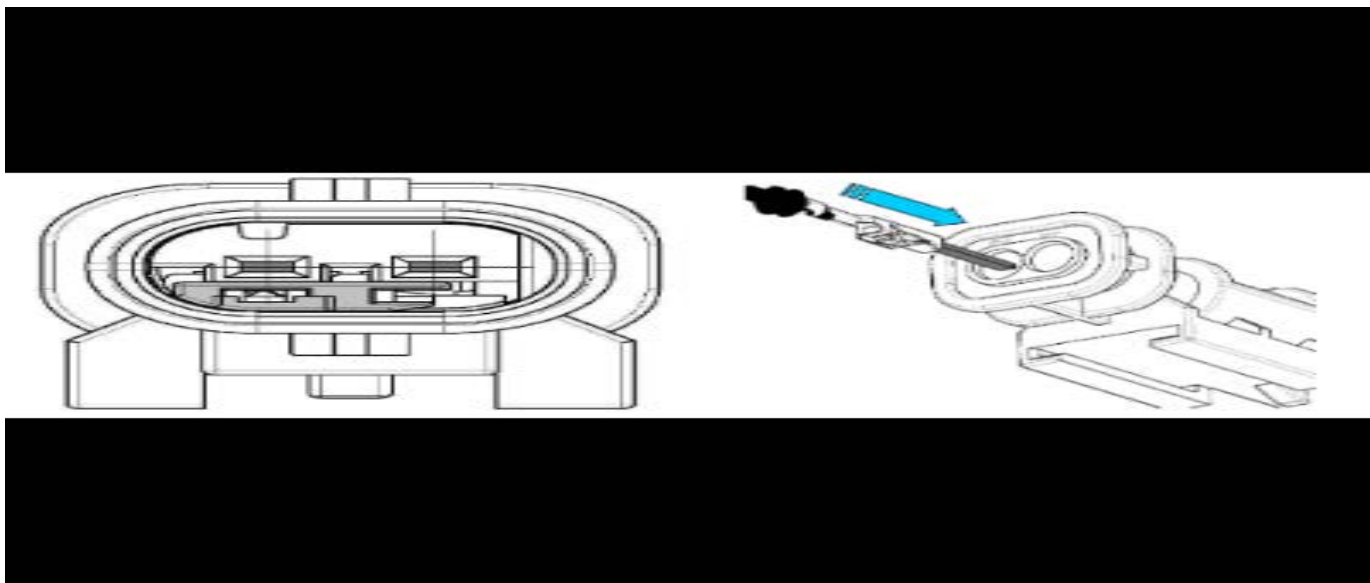
2.5. Swap the terminals from the actuator harness connectors on both sides.

Connector 1

Original Polarity Before Rework		Polarity Reversed After Rework	
Cavity	Wire Color	Cavity	Wire Color
1	Yellow/Black	1	Black
2	Black	2	Yellow/Black

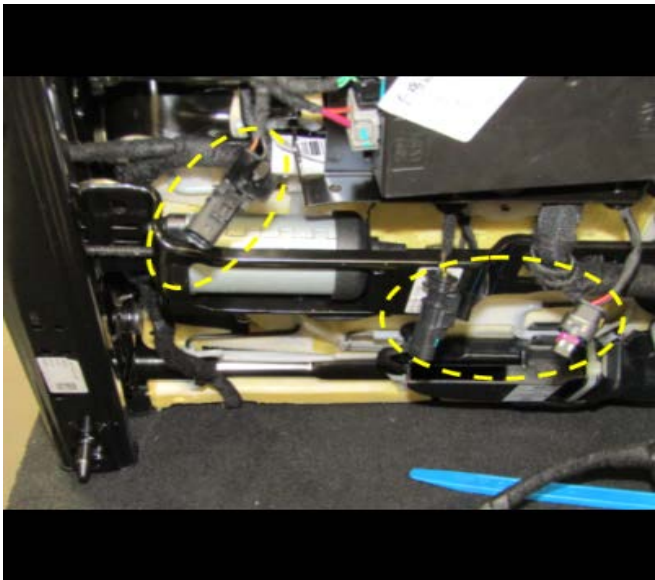
Connector 2

Original Polarity Before Rework		Polarity Reversed After Rework	
Cavity	Wire Color	Cavity	Wire Color
1	Brown	1	Black
2	Black	2	Brown



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2.6. For assembly of the terminals, with the retainer in pre-lock position, move the terminal in the direction shown above, until the terminal locks.



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3. Reconnect the harness connector to each of the actuators

4. Finish reassembly of the seat. Refer to Front Seat Lane Departure Warning Actuator Replacement, in SI.

Important: Contact the Techline Customer Support Center (TCSC) at 1-800-828-6860 (English) or 1-800-503-3222 (French) for instructions on how to reprogram the Seat Memory Control Module. TCSC will provide an updated calibration for the Lane Departure Warning System to ensure the motors vibrate at the appropriate level.

5. Refresh the seat memory control module calibration. Refer to K40D Seat Memory Control Module - Driver: Programming and Setup, in SI.

Parts Information

Causal Part	Description	Part Number	Qty
X	ACTUATOR ASM-F/SEAT LANE DEPARTURE WRNG	84582947	2

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information

Labor Operation	Description	Labor Time
6486038*	Front Seat Lane Departure Warning Actuators Replacement and Harness Terminal Polarity Rework	1.2 hrs
*This is a unique Labor Operation for Bulletin use only.		

Version	2
Modified	Released January 09, 2020 Revised February 03, 2020 – Added Important to step # 5 for TCSC contact information regarding seat memory control module reprogramming instructions and removed China.

