



# Preliminary Information

PIT5441C Object Detection System Message / Service Active Safety / Front Camera / Adaptive Cruise Control / Driver Assist System DTCs U0075 U026A U026B U026C U0265 U0268 U0269 Due To MDI Or Cable Issue

## Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Lacrosse	2017 - 2018	All *See Note 3	All *See Note 3	All	All
Buick	Enclave	2018	All *See Note 1	All*See Note 1	All	All
Buick	Envision	2016 - 2018	All *See Note 2	All *See Note 2	All	All
Cadillac	Escalade	2015 - 2018	All	All	All	All
Cadillac	ATS	2013 - 2018	All *See Note 4	All *See Note 4	All	All
Cadillac	CTS	2014 - 2018	All *See Note 4	All *See Note 4	All	All
Cadillac	CT6	2016 - 2018	All *See Note 5	All *See Note 5	All	All
Cadillac	XT5	2017 - 2018	All *See Note 4	All *See Note 4	All	All
Cadillac	XTS	2013 - 2018	All *See Note 6	All *See Note 6	All	All
Chevrolet	Malibu	2016 - 2018	All *See Note 7	All *See Note 7	All	All
Chevrolet	Traverse	2018	All *See Note 8	All *See Note 8	All	All
Chevrolet	Volt	2017 - 2018	All *See Note 9	All *See Note 9	All	All
GMC	Acadia	2017 - 2018	All *See Note 10	All *See Note 10	All	All

Note 1. Buick Enclave With Driver Confidence II Package RPO BGP

Note 2. Buick Envision With Driver Confidence Package RPO KSG

Note 3. Buick Lacrosse With Driver Confidence Package #2 RPO WPA

Note 4. Cadillac ATS, CTS, Escalade, and XT5 With Driver Assist Package RPO Y66

Note 5. Cadillac CT6 with Driver Assist Package RPO UGN

Note 6. Cadillac XTS With Driver Assist Package RPO PCX

Note 7. Chevrolet Malibu With Driver Confidence II Package RPO WPS

Note 8. Chevrolet Traverse With Driver Confidence II Package RPO BGP

Note 9. Chevrolet Volt With Adaptive Cruise Control RPO KSG

Note 10. GMC Acadia With Driver Alert Package II RPO BGP

## Supersession Statement

This PI was superseded to add models and 2018 model year. Please discard PIT5441B.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

## Condition / Concern

While performing normal diagnostics for any of the Object Detection System Message(s) below, the technician may find any of the following DTCs stored in the active safety module: U0075, U026A, U026B, U026C, U0265, U0268, and/or U0269.

The DTCs can be history or current and when trying to communicate with any of the radars or the front camera, they may or may not communicate.

This may be the result of an issue with the MDI (Multiple Diagnostic Interface) or MDI cable that is used between scan tool and the DLC (Data Link Connector).

The Object Detection modules communicate via serial data on the object detection bus, circuits 3813 and 3811. These circuits go to the DLC at terminals 3 and 11.

The Object Detection bus is fairly new and because of this, the MDI/cable may have never or rarely accessed the object detection bus. If parts of the MDI or MDI cable that are used to access the object detection bus on DLC terminals 3 and 11 have developed an issue, it could cause these false U-codes as well as no communication with the radars and/or front camera.

This can easily mislead the technician when diagnosing any of the following Object Detection System Messages:

- Service Active Safety Service
- Service Front Camera System
- Lane Departure Warning
- Service Driver Assist
- Rear Auto Braking
- Service Auto Collision System

The MDI/Cable will work correctly when accessing other communications busses such as High Speed Lan (DLC terminals 6 & 14), Low Speed Lan (DLC terminal 1), and Chassis Bus (DLC terminals 12 and 13).

## **Recommendations / Instructions**

To determine if the MDI/cable is working correctly try using the EL-47955-1 MDI 1 / MDI 2 Self-Test Loopback Adapter (instructions can be found in the Service Information (SI) MDI 2 User Guide under troubleshooting), or try it in another vehicle with object detection bus, which does not have any issues.

Try to communicate with the radars, forward camera, and check the active safety module for DTCs.

If it is also setting false U-codes and the scan tool is unable to communicate with the radars and/or front camera, the MDI/Cable has an issue and needs to be replaced or repaired.

If available, another MDI/cable can be evaluated, but remember, just because it is a different MDI/Cable does not mean that it is good. Performing the above test on another vehicle with object detection bus will validate the MDI/cable is operating correctly.

If the MDI/cable was the cause of the DTCs, these DTCs are most likely false and should not be used when trying to diagnose the customer's original complaint.

All DTCs should be cleared and the vehicle should be driven to duplicate the customer's original complaint and then a good MDI/cable should be used to check for DTCs and perform diagnostics.



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