



Service Bulletin

File in Section: -

Bulletin No.: 17-NA-313

Date: October, 2017

TECHNICAL

Subject: Service AWD Message Displayed on Driver Information Center (DIC) - DTCs C1266 and/or C1267Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Enclave	2018	2018	SOP	August 15, 2017	LFY	
Chevrolet	Traverse	2018	2018				

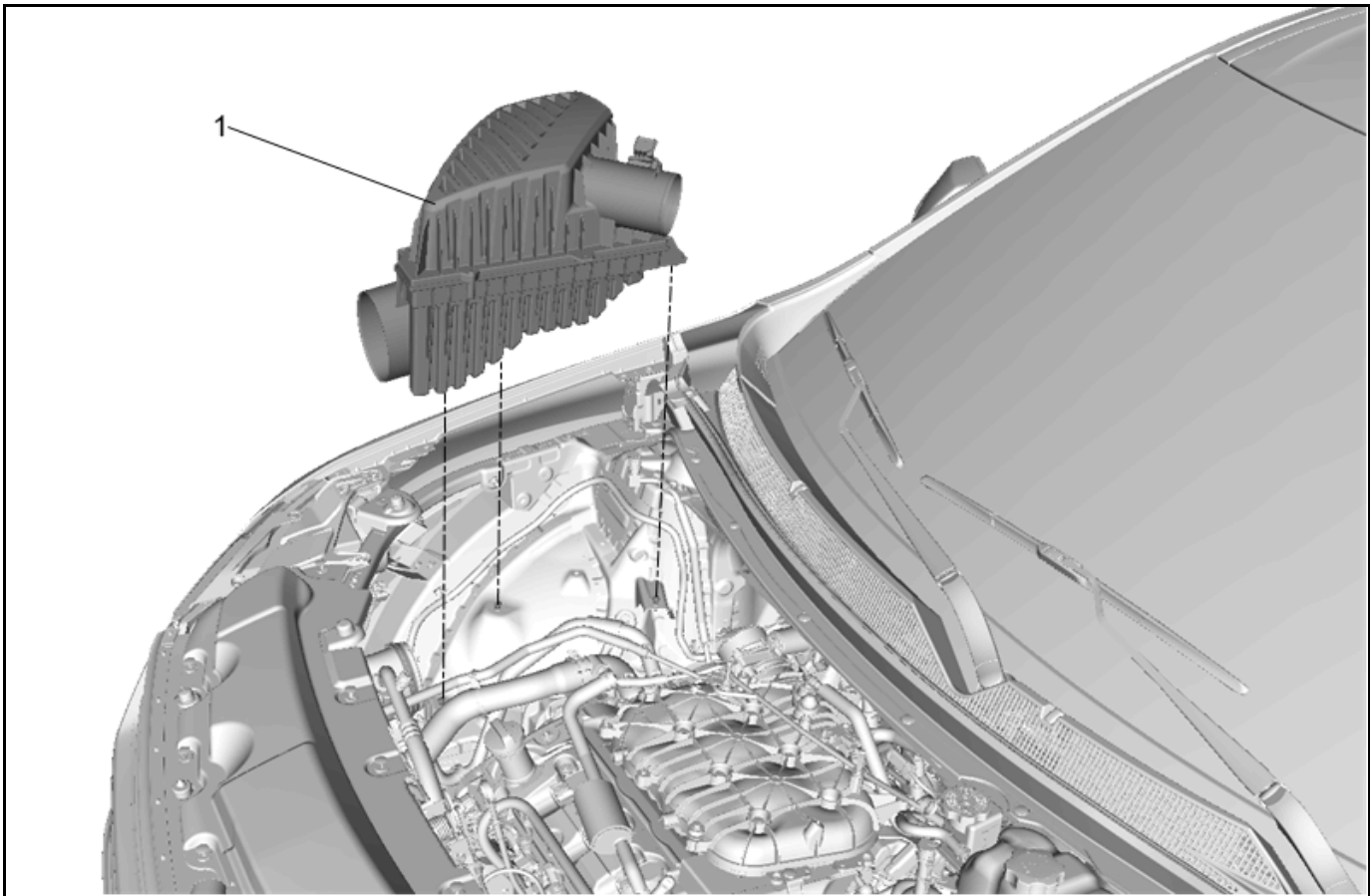
Involved Region or Country	North America and N.A. Export Regions
Condition	Some customers may comment that the service AWD message is on the DIC. The technician may find one or more of the following DTCs set: • C1266 • C1267
Cause	This condition may be caused by an electromagnetic interference from adjacent circuits to the AWD control harness.
Correction	Install a twisted 3 jumper wiring harness between the engine to body harness electrical connector to the Power Transfer Unit (PTU) electrical connector for AWD control circuit.

Service Procedure

Wiring Circuits Removal

Note: The heat wrapped section of the wiring harness is routed to the PTU actuator electrical connector.

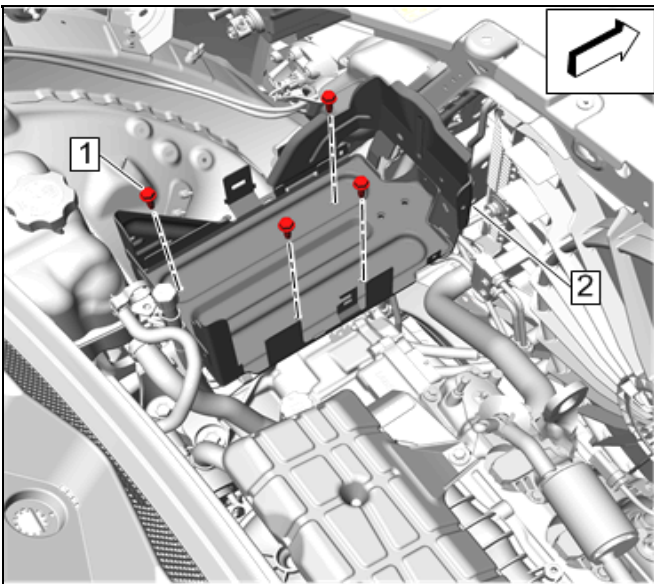
Important: Do Not overlap or twist together any extra PTU wiring harness. The PTU wiring harness has been measured to be secured along side the engine harness without any extra length.



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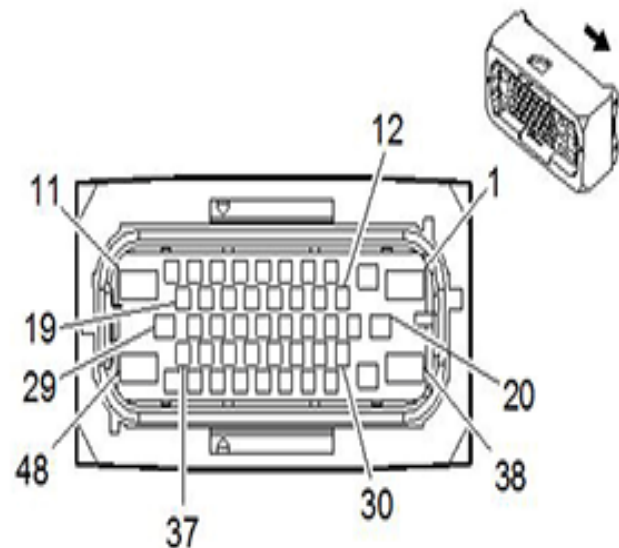
1. Remove the air cleaner housing (1) with the air cleaner outlet duct as an assembly.

4. Disconnect the engine side electrical connector from the body side electrical connector (X112).
5. Using care, remove the tape covering the wiring harness.



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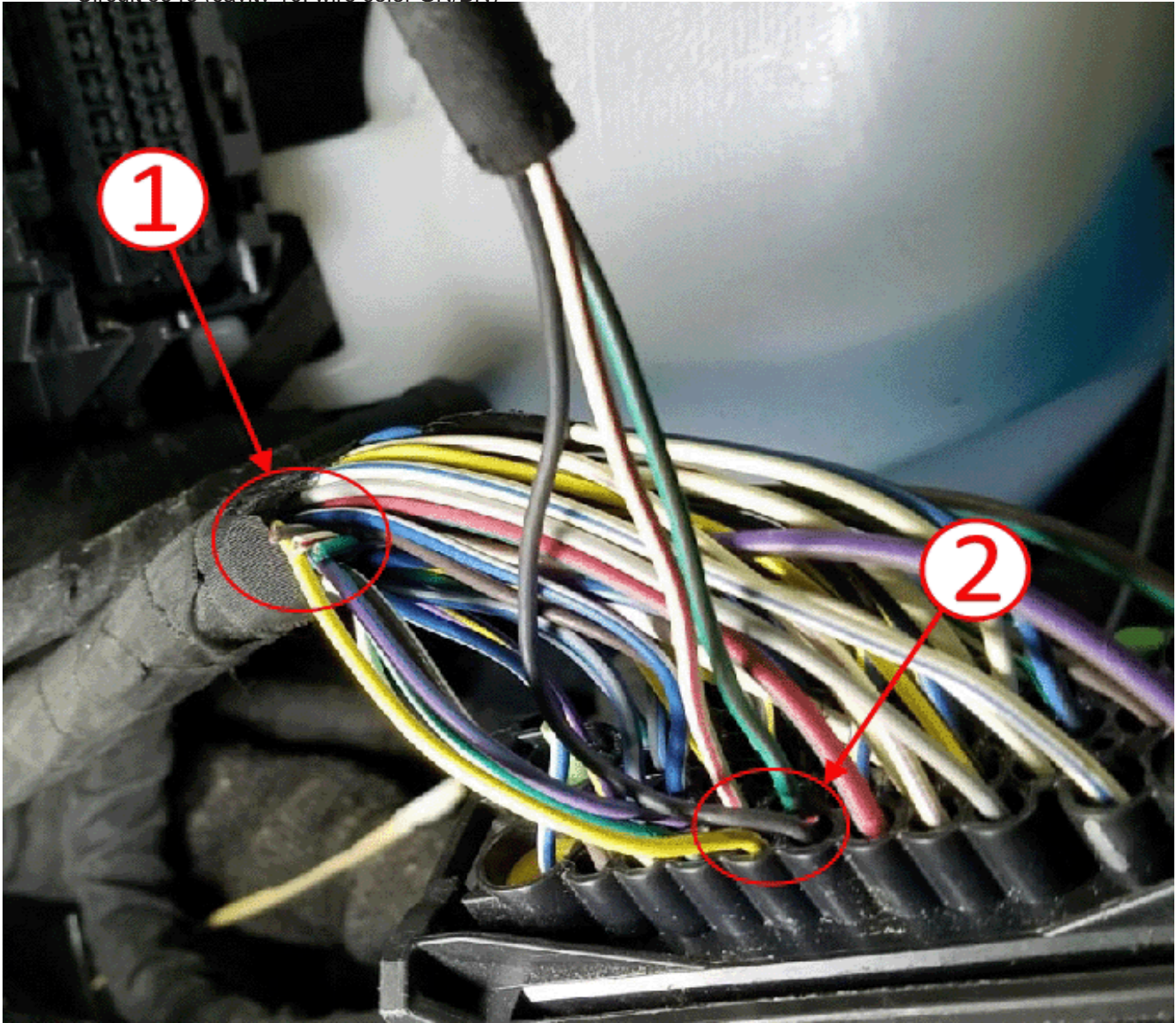
2. Remove the battery tray. Refer to *Battery Tray Replacement* in SI.
3. Locate the 48 Way connector Body Inline connector (P/N 13586845).



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Note: It is recommended not to remove the terminals at the same time, but to replace one terminal at a time.

6. Using a terminal extractor, identify the following circuits and remove the wire terminals from the engine side electrical connector:
- Circuit 3846 (cavity 6, wire color BK/VT)
 - Circuit 3847 (cavity 17, wire color WH/RD)
 - Circuit 3848 (cavity 16, wire color GN/BN)



7. Cut the wire terminals away from the connector (1).
8. Install the PTU wire harness terminals into their respective cavities into the connector (2).
9. Using Woven Polyester Electrical Tape (PET), tape the harness ensuring that the tape is applied in a double layer extending along the harness past the cut wires.
10. Connect the engine harness electrical connector to the body harness electrical connector.

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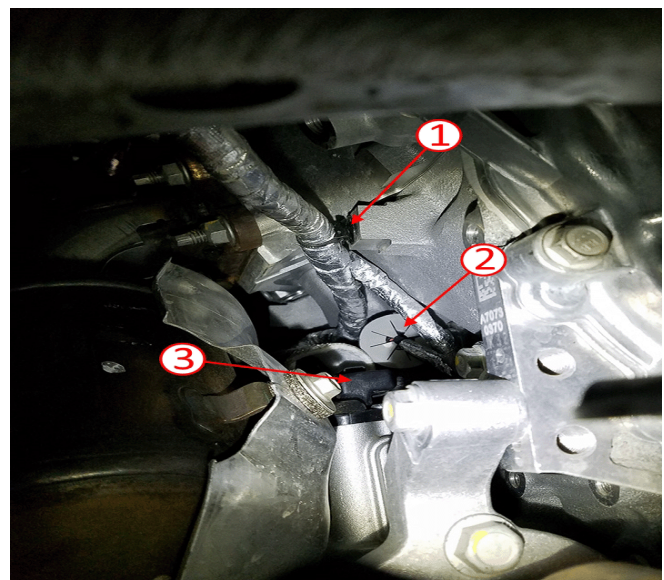
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Important: Do Not secure the PTU harness to the engine harness at this time.

11. Route the jumper following the route of the main engine harness around the side of the intake manifold, over the transmission, across the back of the engine as shown in the graphic above.
12. Partially raise the vehicle.

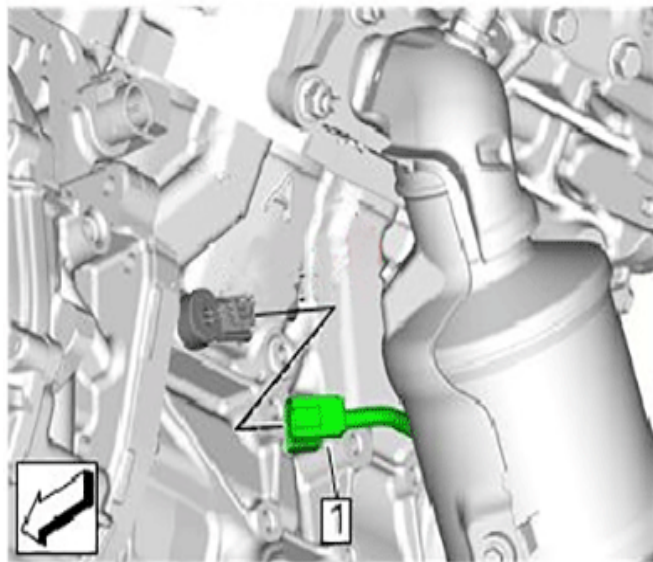
Note: Disconnecting the three connectors and separating the engine harness from the rear of the engine will allow the ability to position the harness down in the right wheel opening for better access to the PTU connector.

13. Remove the right front wheel.



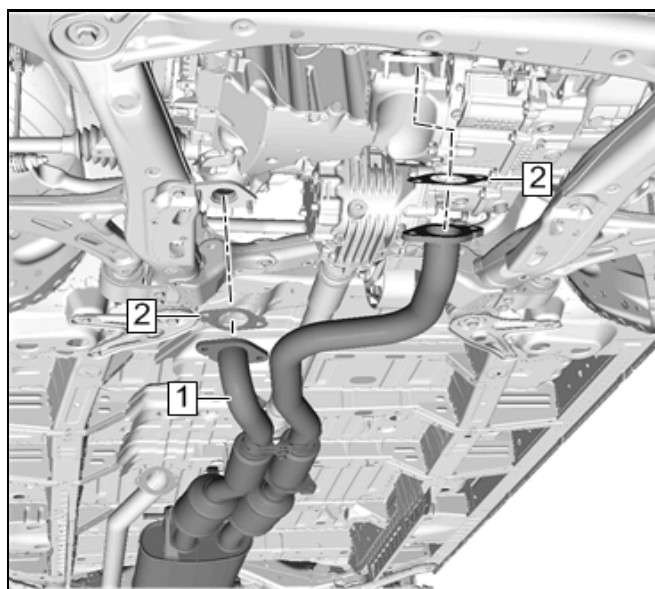
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14. Using care, remove the engine harness from the engine block (1).
15. Slide back the thermal cover CAP away from the knock sensor (2) and PTU actuator (3) electrical connectors.



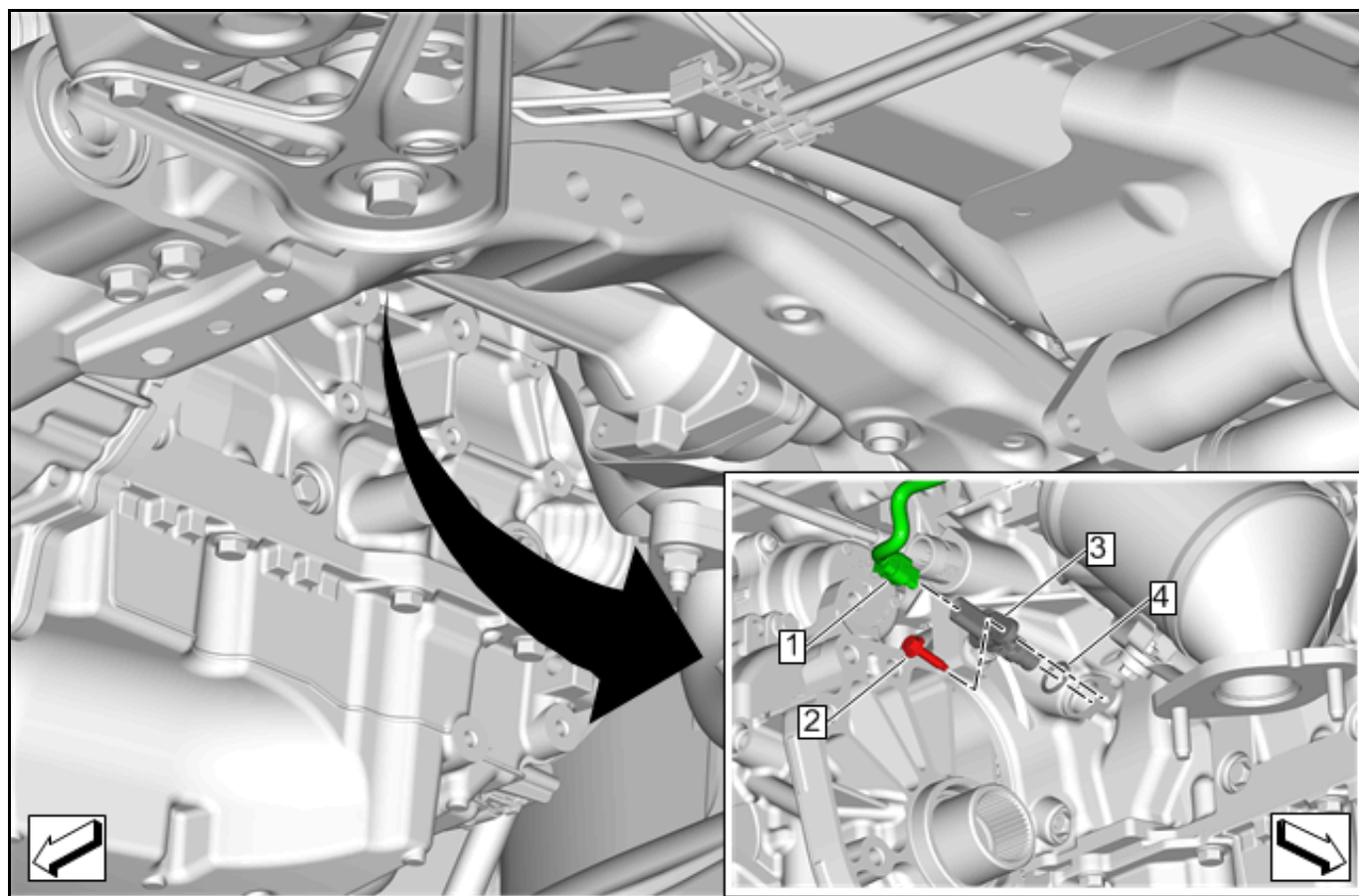
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16. Disconnect the knock sensor electrical connector (1).
17. Disconnect the PTU electrical connector.
18. Raise the vehicle.



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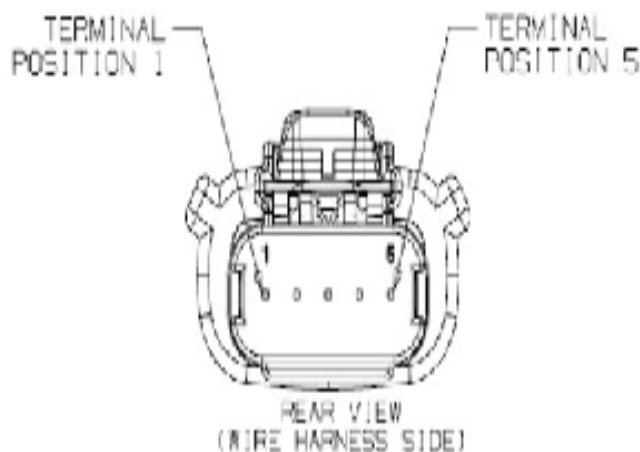
19. Remove the exhaust front pipe (1). Refer to *Exhaust Front Pipe Replacement* in SI.



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Note: Due to location of the crankshaft sensor electrical connector, removal of the sensor will allow for easy electrical connector separation.

20. Remove the crankshaft sensor (3).
21. Disconnect the electrical connector (1).
22. Install new sensor O-ring (4).
23. Install the crankshaft sensor.
 - Torque the bolt (2) to specifications. Refer to Fastener Specifications in SI.
24. Locate the 5 way PTU connector (P/N 13503504) (M115).



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Note: It is recommended not to remove the terminals at the same time, but to replace one terminal at a time.

25. Using a terminal extractor, identify the following circuits and remove the wire terminals from the connector:
 - Circuit 3848 (cavity 1, wire color GN/BN)
 - Circuit 3847 (cavity 2, wire color WH/RD)
 - Circuit 3846 (cavity 3, wire color BK/VT)



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26. Cut the wire terminals away from the connector.
27. Install the PTU wire harness terminals into their respective cavities in the connector.
28. Using tie straps, route and secure the PTU harness:
 - Using tie straps, add one each 120 mm (estimated 25 pcs per harness) if there is a clip where the tie strap should be installed then move 10 mm to the right or left of that existing clip.
 - Route and secure the PTU harness at the engine harness along the back of the engine.
 - Route the PTU harness through the thermal cover CAP.
29. Connect the crankshaft sensor electrical connector.
30. Connect the PTU actuator electrical connector.
31. Install the exhaust front pipe.
32. Partially lower the vehicle.
33. Connect the knock sensor electrical connector.
34. Slide the thermal cover CAP over the PTU connector and knock sensor connector.
35. Secure the wiring harness to the back of the engine block.
36. Lower the vehicle.
37. Using tie straps, secure the PTU harness:
 - Using tie straps, add one each 120 mm (estimated 25 pcs per harness) if there is a clip where the tie strap should be installed then move 10 mm to the right or left of that existing clip.
 - Secure the PTU wiring harness to the engine wiring harness starting from the rear side of the engine.
 - Secure any access PTU wiring harness under the battery tray area.
38. Install the air cleaner housing with the air cleaner outlet duct as an assembly.
39. Install the battery tray. Refer to *Battery Tray Replacement* in SI.

Parts Information

Causal Part	Description	Part Number	Qty
x	Harness, AWD Wiring	*	1
	GASKET, EXH SYS INTER	23161602	2
	GASKET, CTLTC CONV	84135650	1
*This part can be ordered from the Warranty Parts Center (WPC) as part number WPC #822.			

Warranty Information

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

Labor Operation	Description	Labor Time
5480498*	PTU Wiring Harness Installation	2.0 hrs
*This is a unique Labor Operation for Bulletin use only.		

IMPORTANT NOTE WHEN PRINTING THIS FORM: If the form prints out on two pages, make certain you fax BOTH pages so that the WPC receives all the needed information. Missing information will delay or prevent the part from being shipped.

Parts Request Form – Warranty Parts Center

Use this form ONLY for U.S. and Canadian Dealers. Export markets and Mexico Dealers must contact their regional Technical Assistance Center for assistance.

To: Warranty Parts Center

e-mail: warrantypartscenterUSA@gm.com

or WPC Fax: 248-371-0192

Attn: Temporary Service Parts

Part Being Requested: WPC 822

Dealer BAC (U.S.) /Dealer Code (Canada)/Dealer Number (Mexico):

Dealer Name:

Dealer Address:

Dealer Contact Person:

Dealer Phone Number:

Repair Order Number:

Vehicle VIN:

Important: If you do not receive the part within 2 business days after e-mailing or faxing your part request to the Warranty Parts Center, please call WPC Customer Assistance at 248-371-9901/9902.

Version	1
Modified	Released October 2, 2017

