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Case Number: S2208000154 Rev. A

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Symptom/Vehicle Issue: Service Hybrid Electric Vehicle System Message Displayed In The IPC. Vehicle Shakes During A Cold Start And Noise Is Heard Near The P2 Motor. DTC's U0287-00 And B273C-00

Diagnosis: The cluster may display the "Service Hybrid Electric Vehicle System" message. Upon scanning for DTCs, you may find U0287-00 – Lost Communication With Transmission Fluid Pump Set In The TCM. Along with B273C-00 – Digital Crash Input in the HCP. This may be caused by damage to the PIM to P2 High Voltage wiring harness. Or inductive noise from the damaged HV harness being transferred to the low voltage harness. You may also detect electrical noise on the R414 when using an oscilloscope to monitor the circuit.

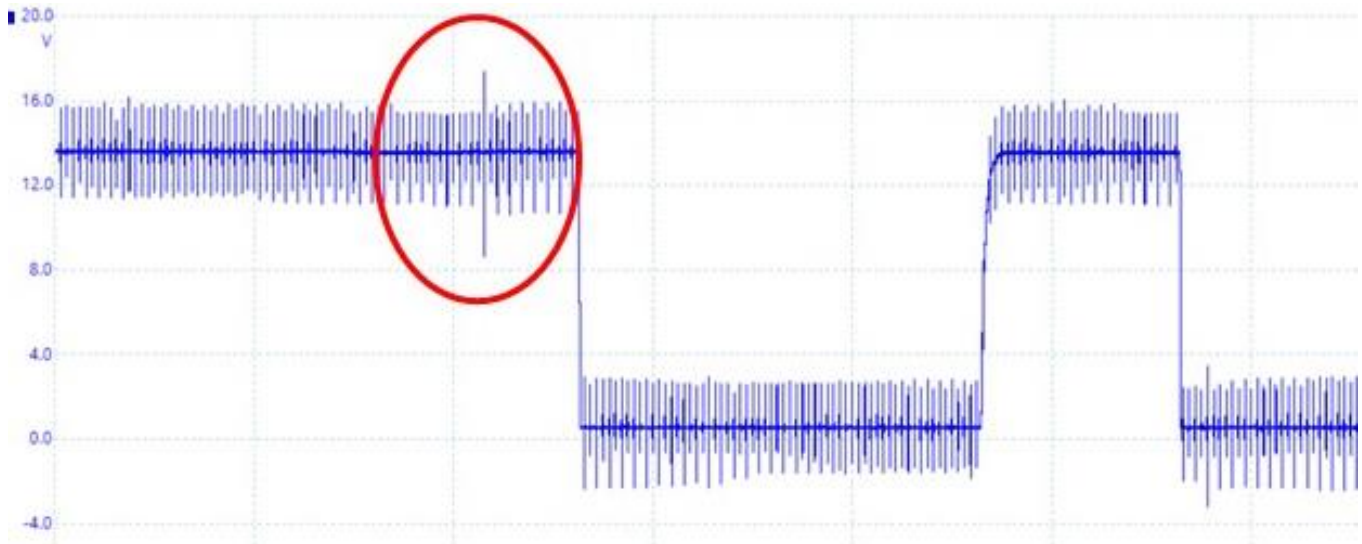


This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

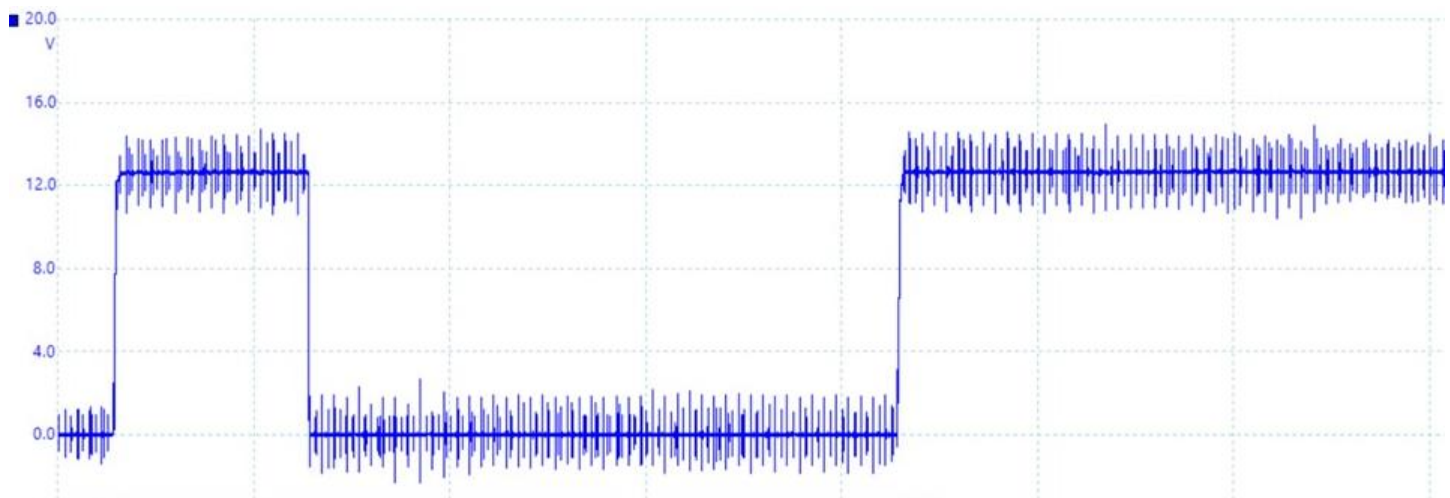
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Circuit R414. Electrical noise and voltage spikes caused by HV induction



Circuit R414. Known Good Vehicle. Normal scope pattern.

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Inspect PIM to P2 wiring harness for rub through or damage near the transmission driveshaft CV joint shield.



PIM to P2 wire
Possible rub point



PIM to P2 wire
Possible kink/damage

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Repair Procedure: If damage is found, replace the high voltage wiring harness. Follow all safety procedures for powering down and isolating the HV electrical system before removing any HV wiring.

Verification: Clear all DTC's. Start the vehicle and verify that the vehicle runs smoothly, and the cluster warning message is no longer displayed. Test drive the vehicle and verify that the DTC's and symptoms do not return.

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