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Symptom/Vehicle Issue: Malfunction Indicator Lamp (MIL) Illumination. Intake Manifold Runner Valve Diagnostic Trouble Codes (DTCs) Setting In Extreme Cold Ambient Temperatures.

Discussion: Some customers may experience a MIL illumination. Upon further investigation, the technician may find one or more of the following DTCs set in the Powertrain Control Module (PCM) memory.

- P2D2D – Cold Start Intake Manifold Runner Performance, Bank 1.
- P2D2E – Cold Start Intake Manifold Runner Performance, Bank 2.
- P200A – Intake Manifold Runner Performance, Bank 1.
- P200B – Intake Manifold Runner Performance, Bank 2.

The cause of these DTCs may be due to repeated short trip driving in extreme cold ambient temperatures, on vehicles that do not have a winter front cover installed. Operating the vehicle in this manner may cause condensation to build up in the intake manifold due to low under hood temperatures. This condensation may then freeze, causing the intake runner valves to stick and set the DTCs.

It is recommended to have a winter front cover installed when temperatures are continually below 32°F (0°C) especially if the vehicle is subjected to extended idle conditions. It is strongly recommended to have a winter front cover installed on

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Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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vehicles when temperatures are continually below 0° F, (-17° C) regardless of drive cycle.

If following normal diagnosis for these DTCs indicates that they may be setting due to condensation freezing in the intake manifold, please recommend the customer install a winter front cover to prevent the concern from happening.

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