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GROUP: Wheels & Tires

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SUBJECT:

Erroneous TPM DTC's Due To IOD Fuse Not Being Installed

OVERVIEW:

This bulletin involves erroneous DTC's that are caused when the vehicle is driven without the IOD fuse installed.

MODELS:

2005 (WK/WH) Grand Cherokee

DISCUSSION:

The driver may notice that the Tire Pressure Monitor (TPM) system is not working properly. Whether a premium or base system, the tire pressure monitor warning light in the instrument cluster may be flashing indicating a **TPM SYSTEM** problem.

On premium TPM systems, the Electronic Vehicle Information Center (EVIC) may display a "SERVICE TIRE PRESS SYSTEM" message. And when stepping through the EVIC to the tire pressure display, all of the tire pressure readings may display as dashes "- -" rather than actual tire pressure values.

Investigation by the technician may find the presence of all four TPM related DTC's:

C1501 - Tire Pressure Sensor 1 (L.F.) Internal

C1502 - Tire Pressure Sensor 2 (R.F.) Internal

C1503 - Tire Pressure Sensor 3 (R.R.) Internal

C1504 - Tire Pressure Sensor 4 (L.R.) Internal

The above condition is most likely caused by driving the vehicle without the IOD fuse installed. If the vehicle is driven at speeds greater than 32 kph (20 mph) for more than approximately ten (10) minutes without the IOD fuse installed, then the TPM system will log the above four DTC's. This scenerio is most likely to occur when the vehicle is driven while in dealer inventory.

Without the IOD fuse installed part of the Wireless Control Module (WCM), the receiver circuit, is not operational (not powered). Though the TPM tire sensors are powered and transmitting correct tire pressure signals, the WCM receiver is not receiving those signals. The portion of the WCM circuitry that is powered, by the ignition on/run feed, sends a CAN message to the Cabin Control Node (CCN) in the instrument cluster indicating that the TPM tire pressure signals are not available. On base and premium TPM systems the CCN



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will flash the tire pressure monitor warning light, and the powered portion of the WCM will log all four of the above TPM DTC's as faults with the TPM system. On premium TPM systems the CCN will also cause the EVIC to display the "SERVICE TIRE PRESS SYSTEM" message.

For the TPM system to operate correctly the IOD fuse must be installed. A scan tool (StarSCAN) will be required to erase the four TPM DTC's.

POLICY:

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