HTT

Harsco Track Technologies

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SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 12 - 2008 **BULLETIN NO:** 07-015

TITLE: Tire Pressure Monitoring Systems

RATING:

- ☐ **ALERT** (Potential Problem)
- ☒ **INFORMATION** (Action Is Optional)
- ☐ **DIRECTIVE** (Action Is Required)
- ☐ **PRODUCT IMPROVEMENT** (Enhance Product)

PRODUCT SERIES / MODEL: 2007-All New Models, 2008 and newer Chevrolet / GMC Pickups and Utility Vehicles Equipped with HY-RAIL® Guide Wheel Equipment.

SERIAL NO: N/A

SUMMARY: Some vehicle manufacturers are introducing Tire Pressure Monitoring Systems (TPMS) to monitor tire pressure on a number of light duty vehicles. Correct tire pressure is critical to proper driving performance. Wheel and tire modifications used for HY-RAIL® guide wheel equipment installations require that OEM wheel mounted sensors be upgraded to read the higher pressure rating used in the heavy duty truck tires.

OPERATIONAL IMPACT: On 2007-All New Models, 2008 and newer Chevrolet / GMC pickups and utility vehicles equipped with HY-RAIL® guide wheel equipment, the wheel modification groups include upgraded sensors. These upgraded sensors are manufactured to recognize higher tire pressures. The vehicle's TPMS processor must be calibrated to match the upgraded sensors. If the system does not recognize the upgraded sensors, fault messages will display in the driver information center located in the drivers dash gauge cluster. If no fault messages are present, maintain tire pressure normally and no further action is required.

ACTION: If fault messages are present, follow the instructions in this service bulletin to have the TPMS on your vehicle re-calibrated. If re-calibration fails to correct the problem, HTT recommends relocating the TPMS module outside the vehicle cab. In tests, relocating the TPMS module outside the vehicle cab has greatly reduced the number of generated tire pressure fault messages.

CONTACT: If you have any questions or if we can be of any service, please contact the Fairmont, MN facility, HY-RAIL® Guide Wheel Equipment Service Department at (507) 235-7212 or to order parts, contact the Parts Department at (507) 235-7143 or (507) 235-7191.

Safety Information

■ **FOLLOW APPLICABLE LOCKOUT - TAGOUT PROCEDURES TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE VEHICLE OR EQUIPMENT. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

Calibration Procedure

1. Take vehicle to a local qualified GM dealer to have the following procedure completed. This calibration procedure should take less than one hour shop time.

2. Verify that the tires are inflated to the specifications indicated on the tire placard located at the driver's side door jamb. Adjust tire pressure as needed.

3. Using the GM Tech II Electronic Diagnostic System, complete the following steps:

   a. Change - Tire Load Range: Set it to the applied tires that are supplied with the wheel and tire modification group.

   b. Change - Baseline Tire Pressure: Set to 80 PSI (552 kPa).

4. Follow the instructions in the owners manual or use the Tire Pressure Monitor Diagnostic Tool (J-46079) to re-calibrate the TPMS.

5. Always replace the tires with the exact same size, dimensions and capacity. Any changes will require re-calibration.

6. Maintain equal tire pressure in each of the tires at the inflation pressure indicated on the tire placard.

7. Refer to the vehicle's owners manual for additional information on tire pressure monitoring systems specific to your vehicle.

   Note: Lowering the tire pressure may effect the load on the guide wheels. If the tire pressure is lowered, make sure the guide wheel load is checked and if necessary, adjusted.

8. If tire pressure fault messages continue to be generated after the Calibration Procedure has been completed, HTT recommends relocating the TPMS monitor outside the vehicle cab. Relocate the TPMS module using the following instructions.

Relocating the RCDLR / TPMS Module

1. The TPMS module is part of the Remote Control Door Lock Receiver (RCDLR). The RCDLR is typically located in the left rear corner of the cab, behind the trim panel. Remove the trim panel to expose the RCDLR.

2. Locate and remove the Driver Seat Module (DSM) 10 amp fuse. The fuse is typically located in the fuse panel on the left side of the dash. Failure to remove the fuse may cause the fuse to blow when the cable is disconnected from the RCDLR.

3. The following items may be needed to relocate the RCDLR / TPMS module:

   a. One water proof, non-metallic, conduit junction box with suitable fasteners to mount the junction box.

   b. Water proof cable grip(s) and lock nut(s) to be used to secure the module cable through the cab wall and in the junction box.

   c. Silicone sealant.

4. Drill a correctly sized hole in the junction box to install the water proof cable grip. Install the cable grip and secure with the lock nut.

5. Locate the junction box on the rear outside wall of the vehicle cab. The suggested location would be on the lower left side. Mount the junction box with suitable fasteners. If desired, use a silicone sealant around the fastener holes.

6. Locate a vent or other type of opening in the left rear corner of the vehicle cab that the module cable can be routed through. If an opening is not available, a hole will need to be drilled. Make sure to drill the hole large enough to accept the water proof cable grip that will be placed over the module cable to prevent fraying of the cable.

7. Route the module cable through the cab rear wall, vent or cable grip, and into the junction box. Secure with cable grips.

8. Locate the RCDLR / TPMS module inside the junction box. It is recommended to use some type of foam insulating material inside the junction box to help secure the module to prevent movement. Install the cover on the junction box.

9. If desired, seal holes with silicone sealant. Replace trim panels that were removed. Install the 10 amp DSM fuse.

10. Refer to the Tire Pressure Monitor System section in your vehicle Owner's Manual for the proper procedure for Resetting the TPMS Identification Codes. If you experience problems with the procedure, contact your local Chevrolet / GMC dealer.

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Printed In U.S.A.