

**INSTALLATION  
OF TIRE PRESSURE MONITORING SENSOR  
2007 AND UP, 2500 CHEVY SUBURBAN/YUKON & 2500/3500 CK PICKUP**

**SAFETY PRECAUTIONS**

**If any installation problems are encountered, please call G&B Specialties for technical assistance before continuing with the installation process.**



- Failure to heed to any of the following warnings could result in severe bodily injury and/or equipment damage.
- Read and understand this manual completely before attempting installation of the equipment.
- Installation instructions provided below only address the Rafna Industries railgear equipment. Applicable railway company procedures and policies must be adhered to.
- The road wheels and tires must be installed before the railgear is installed in order to obtain correct height measurements.
- Do not hit the wheel adapter with any hard objects as this could dent the adapter and cause vibrations when driving. If the adapters do not easily slide onto the hubs, lightly sand the hub and the inside of the adapter.
- Before performing any work under the vehicle or railgear, ensure the engine is turned off and the parking brake is set.

## **INSTALLATION OF TIRE PRESSURE MONITORING SENSOR**

The following procedure details the installation of the tire pressure sensor on the 19.5” steel wheels provided with the RAFNA Industries Railgear equipment. The hardware required for this installation for one sensor and one wheel is listed in table 1.

Table 1: Tire Pressure Monitoring Sensor Installation kit

<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
S-201502	19.5” x 6.75” Wheel 5.60” Offset	Ref
R-10055	Tire Pressure Monitoring Sensor	1
R-10056	Nut	1
R-10057	Adapter Grommet	1
R-10058	Washer	1
R-10059	Washer	1

### **Tire Pressure Monitoring Sensor (TPMS)**

The OEM TPMS must be replaced with a sensor that is capable of operating at the higher pressures required for the 225/70R19.5” tires that are recommended for RAFNA Railgear Wheel Modification Kit.

The OEM sensors cannot be reused as they are a snap-in style that will not mount to the steel wheels supplied with RAFNA Wheel Modification Kit. A screw-on type that is secured to the steel wheel with a nut on the outside of the wheel is required.

### **Installation of Tire Pressure Monitoring Sensor (TPMS)**

- 1. Remove the small rubber grommet from pressure sensor valve stem and discard.** Replace the small rubber grommet with the large rubber grommet supplied with this kit.
- 2. Assemble pressure sensor, grommet, washer and nut to the 19.5” wheel as shown in Figure 1.**
- 3. The valve stem nut should be torqued to 24-30 in. lbs.** This is to ensure the proper operation of the sensor and to maintain an air tight seal with the wheel.
- 4. It is recommended that the speedometer for the vehicle be recalibrated for the 19.5” wheels and tires.** There is currently no option in the vehicle's computer for 19.5” wheels, the closest available setting is for 20” wheels. Using this setting should achieve a 3-4 mph variation from actual at highway speeds.

### **Tire Inflation**

Tires should be inflated to a minimum pressure of 75psi to a maximum of 85psi. This will allow the replacement TPMS to operate within its designed pressure range of +/- 15% of inflated pressure before alerting the driver with a pressure warning light.

These are only recommended inflation pressures. The proper tire pressure should be determined by the operator of the vehicle, depending on vehicle load and operating conditions.

### **Programming the TPMS**

It will be necessary to reprogram the vehicles computer to read the new sensor and the required higher operating tire pressure.

It is recommended that the vehicle computer be set Load Range 'E' tires for the front and rear with an operating pressure of 80psi.

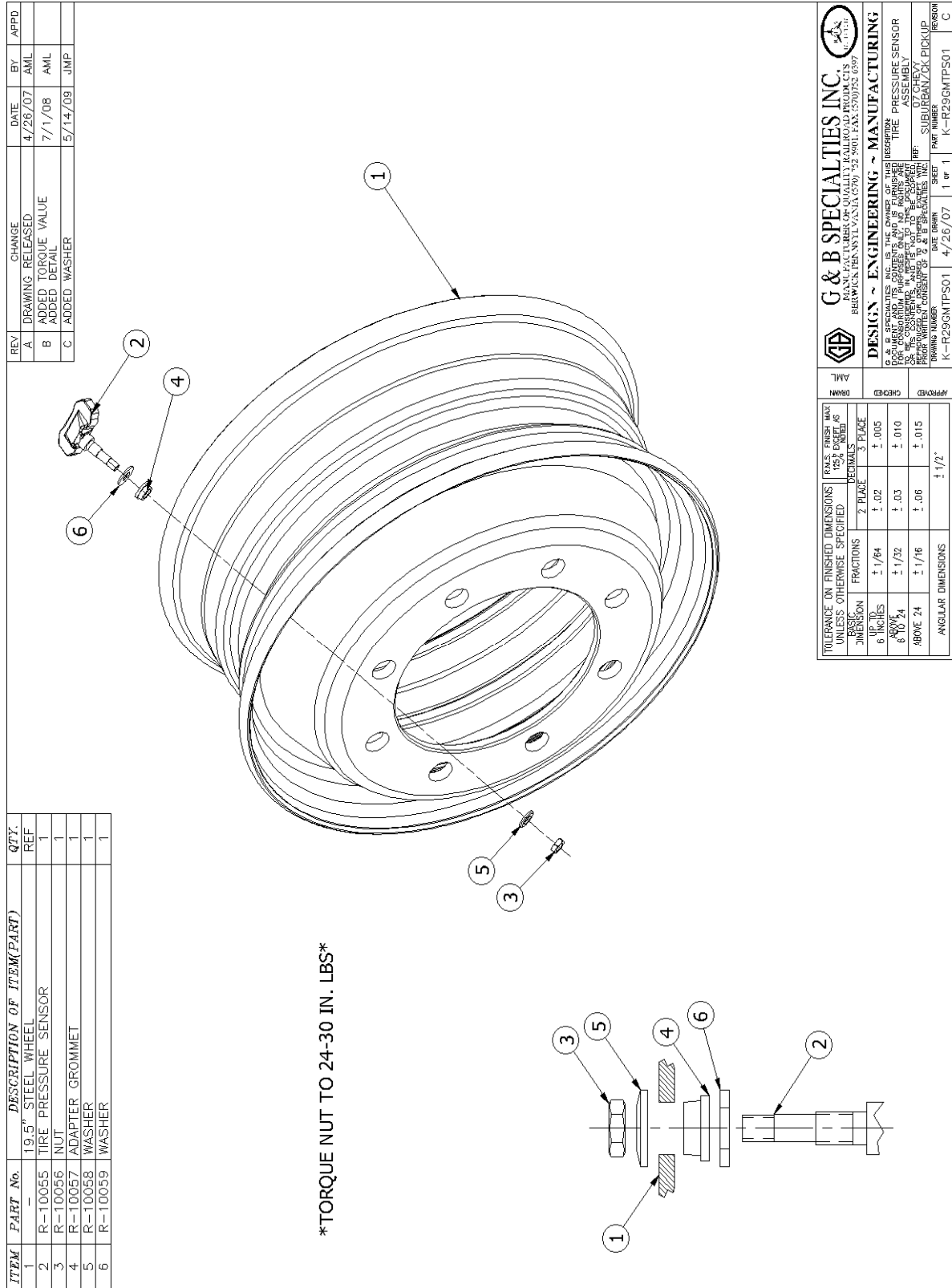
Contact you local GM dealer for the correct procedure on reprogramming the TPMS.

### **Refer to page 5 & 6 for important GM Technical Service Bulletin.**

### **Tire Rotation**

When performing a tire rotation as part of the vehicle standard maintenance schedule, it will be necessary to re-set the TPMS so that the vehicles computer knows the location of the moved sensors.

Contact you local GM dealer for the correct procedure on re-setting the TPMS.



**Figure 1**

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## Powertrain Control Module (PCM)

This information is in addition to the "Tires" portion located in Section 5 of your owner manual.

When tires are changed from the original equipment size to those adapted to railroad track gage, the Powertrain Control Module (PCM) must be reprogrammed to correct the speedometer reading.

**Truck Models C/K 2500/3500:** LY6 6.0L V8 Engine and MYD 6L90 Automatic Transmission.

Reprogramming the PCM is done with a TECH II electronic diagnostic system. Your GM truck dealer has this equipment. Your dealer has the correct calibration identified by the calibration part numbers on the following chart and any later updates after this publication.

<i>New Tire Size</i>	<i>Axle Code</i>	<i>Model Year</i>	<i>Calibration Part Number</i>
225/70R19.5	GT4 (3.73)	2007	12615865
225/70R19.5	GT4 (3.73)	2008	12615866

Please refer to the Light Duty Series GM BODY BUILDER BOOK or visit [www.GMUPFITTER.com](http://www.GMUPFITTER.com) for further general information regarding vehicle modifications.

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# Vehicle Capacity Weight & Tire Info Label

Part Number	Vehicle(s)	Language(s)	Size (mm)
15261447	All GM < 10,000 lbs	English/French/ Spanish/Arabic/ Chinese	105 x 43

- Requirements – FMVSS/CMVSS 110

GS 48/SSA 1438

NOM-12-SCT2

TREAD Act

- Languages – English – USA English-European  
PSI = BAR

English/French – Canada

Spanish – Mexico Arabic –

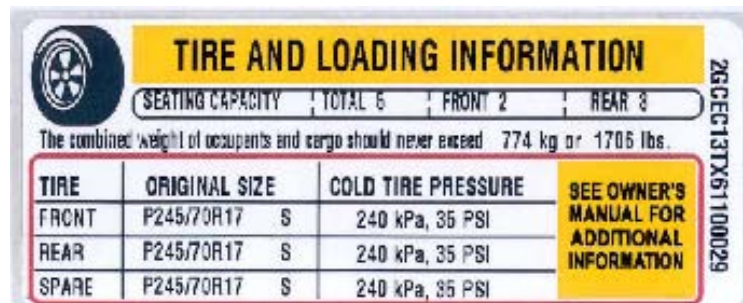
Gulf States Chinese – China

- Colors – Black/White/Red/Yellow
- Location – Driver-side B-Pillar or Inner Door  
Edge if there is no B-Pillar

## BEST PRACTICE LINK

[Tire Pressure Label 109604](#)

## Example Label



- Label Type – Information