

# TIRE INFORMATION SERVICE BULLETIN

## TIRE MOUNTED SENSORS WITH INTEGRATED BATTERIES

### Introduction

This bulletin provides important information regarding tire mounted sensors (TMS) and the necessity of removing them, including their battery, before tire disposal or retreading. Sensors without batteries, such as Radio Frequency IDentification (RFID), are excluded. Several tire manufacturers offer tires with a sensor mounted to the tire's innerliner. Some of these sensors are permanently attached to the tire innerliner while others fit inside a specially designed boot or container that keeps the sensor secure during operation. Examples are shown in Figure 1 below.



**FIGURE 1: Examples of Tire Mounted Sensors**

### Purpose of a Tire Sensor

The tire mounted sensor typically provides internal temperature and inflation pressure measurements. The sensor may also provide additional data to the vehicle and external monitoring systems. Being in contact with the tire may enable other sensing capabilities.

### Removal and Disposal

Since tire mounted sensors may contain a lithium ion battery, the sensor must be removed before the tire is disposed of, recycled, or retreaded. For tires and casings which continue in service, it is essential not to damage the innerliner during sensor removal. Sensors mounted with a boot or container may require a special tool. For details on how to remove the sensor, contact the sensor manufacturer. Batteries must be properly disposed of in accordance with local, state and federal regulations including DOT and EPA hazardous material rules.

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