



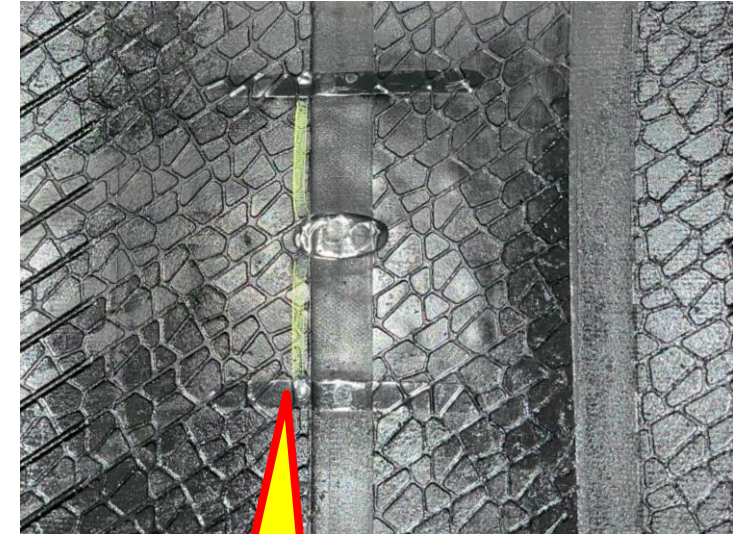
New Sensor Fixation Sensor Pocket Training Material

Release – January 2025



Background - Sensor Pocket Industrialization

- › The sensor pocket is a functional component of the tire
 - › The function is to secure the digital sensor to the casing liner without the use of chemicals.
 - › Tires with sensors are commonly found in the Continental Construction truck tires.
- › A Pilot production is running
 - › Pilot production is needed to develop lessons learned in manufacturing and to work out any conflicts with standard tire building.
 - › Finished goods may be available to the market as early as early 2025 on specific articles.
- › Yellow paint marking
 - › A paint marking has been added to the rubber pocket to identify the component on the inner liner.
 - › Future enhancements will be made to announce the presence of the pocket.





Color markings identify the pocket with no sensor installed!!!

New Technology: Sensor Pocket

Supporting materials

1. Technical Service Bulletin – July 2024 (Updated)
2. Sensor Installation / Removal process
3. FAQs



Technical Services Bulletin Truck Tire TB-07-001-2024

Integrated Digital Solutions Pocket

Digital Solutions are important feature in today's technology to maintain tires and enhanced maintenance abilities of Truck Tires. Continental continues to be innovative in providing solutions to our customers in this area.

A new part of this innovation is a pocket integrated into the innerliner (Figure 1) and will be found more frequently in our tires. These integrated pockets will improve the ability to enhance the tires with digital solution sensors and will not affect the performance of the innerliner. This design will not impede the use of the tire without a sensor installed. The figure 2 shows the pocket with sensor in place.

The pocket is cured on top of the innerliner so there is not a risk that air or moisture will migrate to belt package through the hole in the top of the pocket.

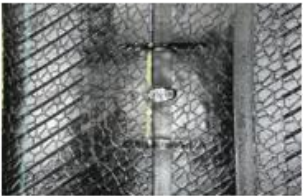


Figure 1. Digital solutions integrated boot pocket without sensor.




Figure 2. Digital Solutions integrated Boot pocket with sensor.

July 2024

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Page 1 of 2

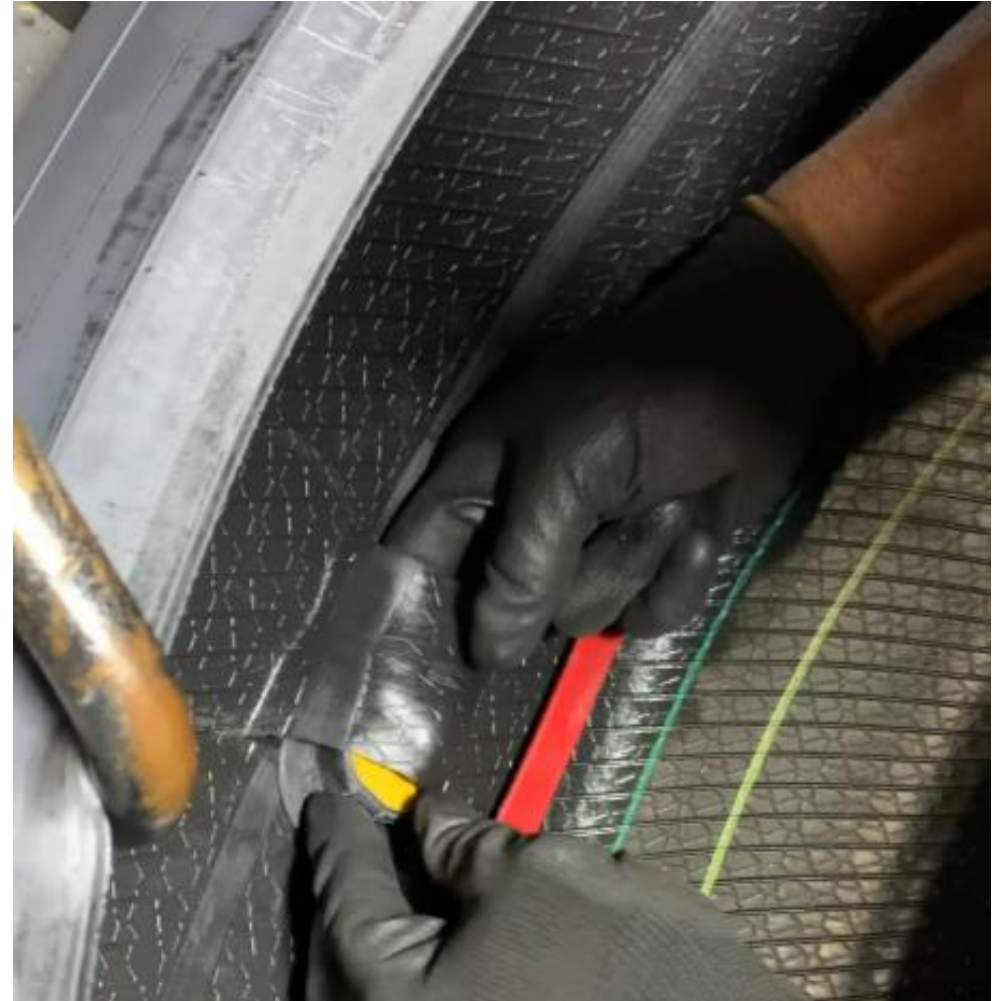
Sensor Installation Process

1. **Separate** center of pocket from tire.
 - a. Separation is made between pocket and transparent foil. Automotive trim tool (plastic) can be used for assistance.
 - i. **Do not use a sharp metal tool such as a flat screwdriver or blade for separation!**
 - b. First-time separation (new tire) is more difficult than subsequent separations.
2. **Lift** pocket and slide Sensor/Container assembly underneath.
3. **Adjust** the pocket opening around the perimeter of the sensor by pressing down near the base.
4. **Done!**



Sensor Removal Process

1. **Separate/lift** pocket from tire sensor.
 - a. Automotive trim tool (plastic) can be used for assistance.
 - **Do not use a sharp metal tool such as a flat screwdriver or blade for separation!**
2. **Push** sensor/container assembly from underneath the pocket.
3. **Done!**



FAQ

Do I need special training, tools, or equipment to use the pocket?

No. No additional materials such as glue, etc. are required. Anyone can do the installation. You can use an automotive trim tool, to help to lift the pocket.

Are sensor functionalities impacted (eg. Mileage estimation)?

No. Sensor functionalities are not impacted and function normally.

Does the transparent separator foil need to be removed?

No. The foil should remain in the tire and should not be removed.

What should I do before retreading the tire casing?

Remove the sensor/container assembly before retreading. After retreading, the previous or new sensor assembly (sensor + container) can be placed under the pocket. Do not attempt to install a sensor in the pocket without a container.

What should I do if the casing is damaged in the area of the sensor pocket (eg. Puncture)?

If there is a damage to the casing in the area of the pocket, the pocket should be removed by a repair technician, and the casing repaired in the normal approved manner. If a sensor is desired, one must be attached using the other approved methods (eg. REMA or Cyberbond).

When will more tires be available with the sensor pocket?

Serial production in Intelligent tires is planned in 2026. New tires will be identified to transition to this technology near the same time.

Does the pocket get damaged during Retread?

The pocket was designed to withstand the retreading process. No damages were detected during testing. The sensor should always be removed before retreading or recycling the casing.

How much will the sensor pocket add to the cost of the tire?

During this initial stage of testing, there will be no additional cost associated with the inclusion of the sensor pocket.

Who do I contact when I have material concerns?

Please contact your TCS representative.



Thank You!



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