

H TECHNICAL PROCEDURE

TIREMAX® TPMS

SUBJECT: Installation and Service Procedures

LIT NO: T51008

DATE: December 2025

REVISION: A

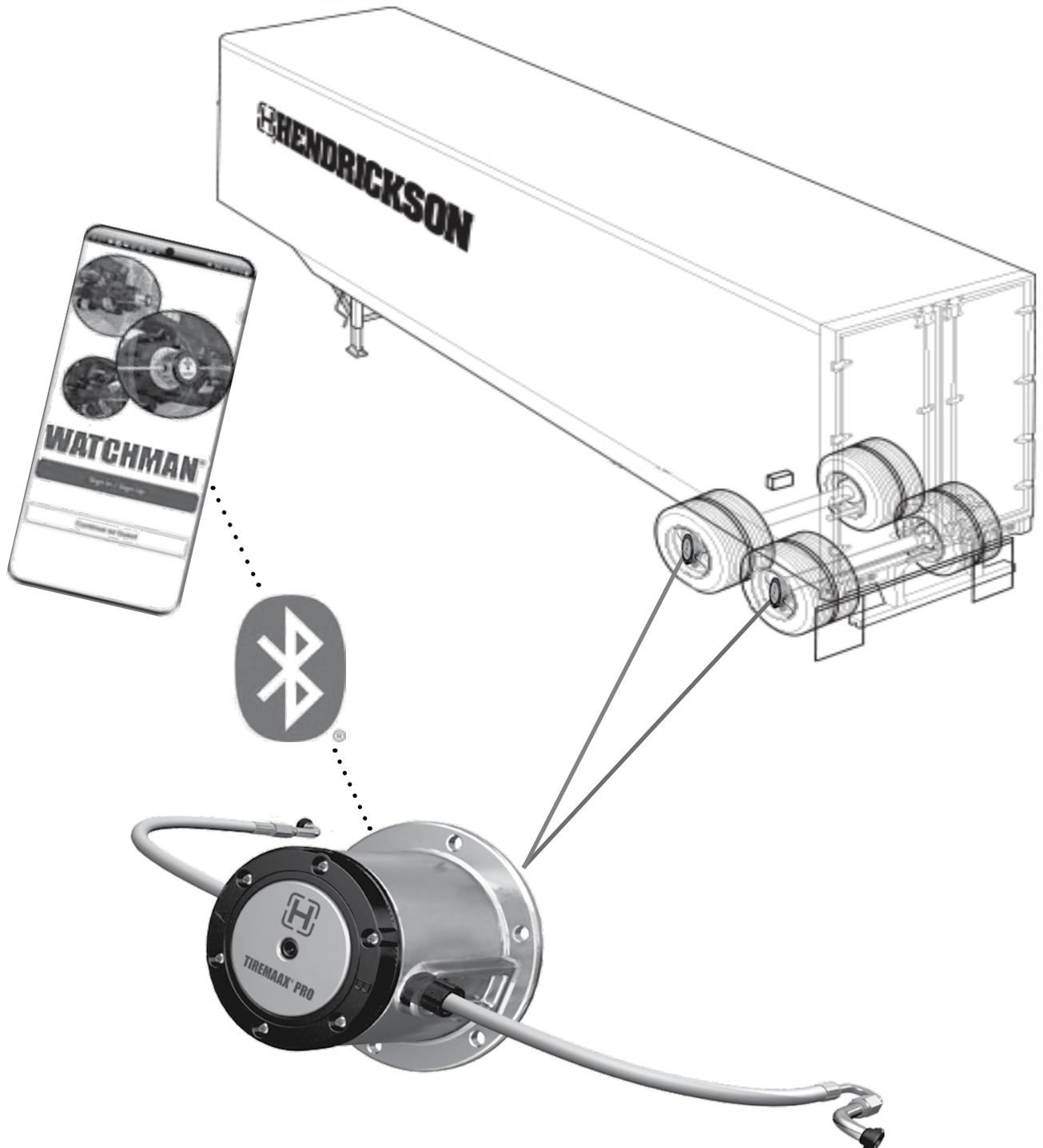




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IMPORTANT SAFETY NOTICES

Hendrickson literature number **T12007** *Technical Procedure General Safety Precautions and Information*, available at www.Hendrickson-intl.com, includes important preparation, precautionary and safety information pertaining to the procedures included in this document.

To help prevent personal injury and equipment damage; warnings, cautions and other relative statements included in Hendrickson literature number T12007 are to be read carefully and applied during the performance of the procedures included in this document.

Improper maintenance, service or repair can cause damage to the vehicle and other property, personal injury, unsafe operating conditions and potentially void the manufacturer's warranty.

CONVENTIONS APPLIED IN THIS DOCUMENT

This section explains the techniques used in this document to convey important information, safety issues and how to contact Hendrickson.

EXPLANATION OF SIGNAL WORDS

Hazard signal words (such as **DANGER**, **WARNING** or **CAUTION**) appear in various locations throughout this publication. Information accented by one of these signal words must be observed at all times. Additional notes are utilized to emphasize areas of procedural importance and provide suggestions for ease of repair. The following definitions comply with ANSI Z535.6 and indicate the use of safety signal words as they appear throughout the publication.

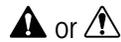
⚠ DANGER Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE Indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

IMPORTANT: An operating procedure, practice or condition that is essential to emphasize.



Safety Alert Symbol used to indicate a condition exists that, if not avoided, may result in personal injury or harm to individuals. It must be applied to DANGER, WARNING and CAUTION statements, which emphasize severity.

HYPERLINKS

Hyperlinks are identified by a dark grey line under the linked text. Internal links allow the reader to jump to a heading, step or page in this document. External links open the website or document referenced. While viewing electronically, activate the hyperlink by clicking on the underlined text.

CONTACTING HENDRICKSON

Hendrickson Trailer Technical Services must be contacted before performing any warranty related service.

NOTE: DO NOT service a suspension or any component that is under warranty without first contacting Hendrickson Technical Services.

Prior to contacting Technical Services, it is best to have the following information about the vehicle and Hendrickson suspension available (all that apply):

- **Hendrickson suspension information**, (refer to [L977 Suspension and Axle Identification](#))
 - Suspension model number
 - Approximate number of suspension miles
- **TPMS sensor information**
 - Sensor serial number
- **Trailer information** (located on VIN plate)
 - Type (van, reefer, flatbed, etc.)
 - Manufacturer
 - VIN (Vehicle Identification Number)
 - In-service date¹
 - Fleet/Owner name
 - Unit #
- **Failure information**
 - Description of the system problem, the part number and / or the part description of the reported non-functioning part.
 - Date of failure.
 - Where applicable, location of problem on suspension / trailer (e.g., roadside, front axle, rear axle, curbside rear, etc.)
- **Digital photos** of suspension and damaged areas
- **Special application approval documentation** (if applicable)

¹ If the in-service date is unknown or not available, the vehicle date of manufacture will be substituted

PHONE

Contact Hendrickson Trailer Technical Services directly in the United States and Canada at **866-RIDEAIR (743-3247)**. From the menu, select:

- Technical Services/Warranty for technical information.
- Other selections include:
 - Aftermarket Sales for replacement parts information and ordering.
 - Original Equipment Sales for parts inquiries and ordering for trailer manufacturers.

EMAIL: HTTS@Hendrickson-intl.com

Contact Hendrickson for additional details regarding specifications, applications, capacities, operation, service and maintenance instructions.

All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.

RELATIVE LITERATURE

If you suspect your version of this or any other Hendrickson manual is not “Up-to-Date”, the most current version is free online at:

www.hendrickson-intl.com/literature

Available Hendrickson documentation can be viewed or downloaded from this site. All Hendrickson online documentation are PDF files that require Adobe Acrobat Reader to open. This is a free application downloadable from Adobe’s home page (<http://get.adobe.com/reader/>).

Other related literature may include:

NAME	DESCRIPTION
L583	Comprehensive Warranty Statement (US and Canada)
L878	TIREMAAX® Parts List
T50018	TIREMAAX Manual Tire Check Decal
T51002	TIREMAAX PRO and CP Tire Inflation Systems
T51006	TIREMAAX PRO-LB
T52003	Toolbox Tip: TIREMAAX Hubcap Clocking

Table 1: Related literature

Additional information and videos are available at: www.hendrickson-intl.com/TIREMAAX.

Hendrickson reserves the right to make changes and improvements to its products and publications at any time. Consult the Hendrickson website

(www.Hendrickson-intl.com) for the latest version of this manual.

PREPARING TRAILER FOR MAINTENANCE SERVICE

For information on trailer preparation, safety and precautionary statements, refer to Hendrickson literature number T12007, available at www.Hendrickson-intl.com

⚠ WARNING DO NOT work under a trailer supported only by jacks. Jacks can slip or fall over, resulting in serious personal injury. Always use safety stands to support a raised trailer.

TIREMAAX TPMS

TIREMAAX® PRO and TIREMAAX® PRO-LB tire inflation systems have the option to include the TPMS sensor. The TIREMAAX TPMS sensor communicates tire pressure and wheel-end temperature to the trailer telematics device (if equipped) and Hendrickson WATCHMAN® APP. Data is communicated to a device APP via Bluetooth®.

System components include:

- (2 to 8) TPMS sensors
- (2 to 8) TPMS sensor gasket kits
- (2 to 8) Hubcaps
- (2 to 8) Hubcap Gasket Kits
- (1) Trailer telematics device (Not provided by Hendrickson)

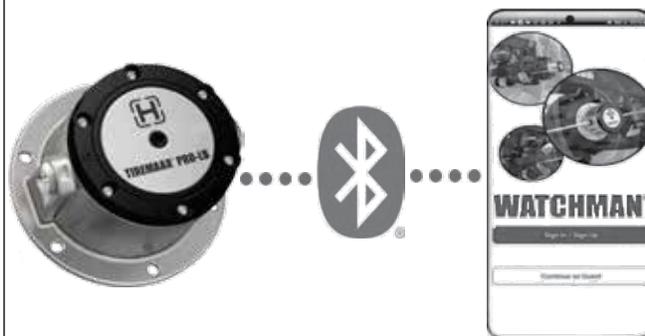


Figure 1: General system communication

Each TPMS sensor measures wheel-end data and reports tire/wheel-end health to the Hendrickson WATCHMAN APP and trailer Telematics device. The TPMS sensor setup and configuration is managed through the WATCHMAN APP. TIREMAAX TPMS Sensor is available for purchase as a pre-paired system for dressed axle(s) or as individual (unpaired) components.



SYSTEM REQUIREMENTS

- Number of axles: 1, 2, 3 or 4 (max)
- Spindle Types: N, P and Extended
- Wheel-end type: Grease
- Tire Inflation System: Hendrickson TIREMAAX® PRO or TIREMAAX PRO-LB
- Device with Hendrickson WATCHMAN® APP
 - Android device or iOS device (not provided by Hendrickson) with latest iOS version or previous two releases
 - Near-Field Communication (NFC)
 - Internet access (Wi-Fi or Cellular)

NOTICE: Hendrickson does not provide telematics systems - Telematics system must be installed separately.

TIREMAAX® TPMS SENSOR HUBCAP

The TIREMAAX TPMS sensor hubcap can be identified by the label on the face.

- Wirelessly provides wheel-end data, such as tire pressure and wheel-end temperature
- Powered by dual internal batteries (not replaceable)

NOTICE: TIREMAAX TPMS sensor cannot be installed onto an existing hubcap which is not intended for use with the TIREMAAX TPMS sensor.

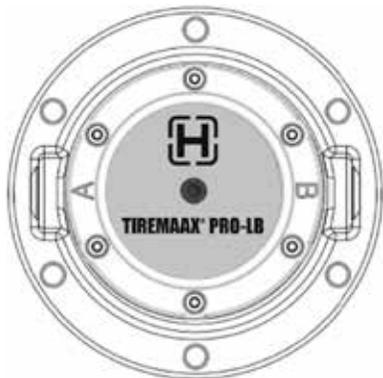


Figure 2: TIREMAAX TPMS sensor Hubcap (TIREMAAX PRO-LB version shown)

NOTE: The "A" and "B" ports shown in Figure 2 are important for proper tire location tracing on the system. It is recommended for consistency that port "A" is used for the outer tire in a dual tire scenario, or is the port used in a super single scenario.

INSTALLATION

Installation of the TIREMAAX TPMS sensor can be done on new or existing TIREMAAX PRO and PRO-LB systems. For application and installation questions, contact Hendrickson Technical Services refer to [CONTACTING HENDRICKSON](#) on page 3.

Before starting TIREMAAX TPMS (only available on TIREMAAX PRO and TIREMAAX PRO-LB) sensor installation, ensure the trailer is already equipped with a TIREMAAX PRO or TIREMAAX PRO-LB control system. Refer to [T51002 TIREMAAX PRO INSTALLATION, SERVICE AND TROUBLESHOOTING PROCEDURES](#) or [T51006 TIREMAAX PRO-LB INSTALLATION AND SERVICE PROCEDURES](#).

For new installations of the TIREMAAX TPMS sensor, the scope of work will include:

- Install TIREMAAX TPMS sensor Hubcaps
- Activate TIREMAAX TPMS sensor using Hendrickson WATCHMAN APP
- Assign Wheel End location using Hendrickson WATCHMAN APP
- Assign Tire Type (Dual/SS) using Hendrickson WATCHMAN APP
- If applicable, connect TIREMAAX TPMS sensors to vehicle telematics device (Not Supplied by Hendrickson)
 - Unique Bluetooth MAC address encoded in laser marked text and QR code located on each TIREMAAX TPMS sensor
 - Gateway or Telematics supplier may require scanning laser marked text and QR code

If retrofitting a trailer with an existing TIREMAAX PRO or TIREMAAX PRO-LB system, the scope of work will also include:

- Replace TIREMAAX system hubcaps with ones intended for TIREMAAX TPMS sensor.



TOOLS REQUIRED

The following tools may be required during installation or the performance of some maintenance procedures:

TOOL	WHERE USED
3/8" wrench	Hubcap installation
7/16" wrench	Hubcap installation & Tire Hose installation
1/2" socket w/driver & torque wrench	Hubcap installation

Contact Hendrickson Technical Services refer to CONTACTING HENDRICKSON on page 3, before removing any Hendrickson assembled wheel-end components.

TIREMAX TPMS HUBCAPS

Three basic hubcap types are available, refer to Table 2. Hubcap installation is the same for each.

SPINDLE TYPE	HUBCAP
HN	HN
HP	HP
HP with castle nut system	HP extended

Table 2: Hubcap types

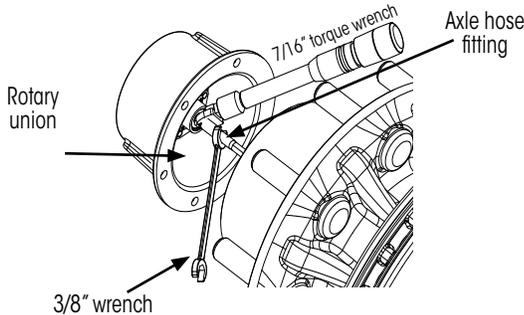


Figure 3: Hubcap to axle hose connection

TPMS HUBCAP INSTALLATION

1. Draw just enough axle hose out from center of spindle to attach axle hose fitting to the rotary union inside the hubcap, Figure 3.
 2. Place hubcap gasket over axle hose for later positioning.
- NOTE:** Shaft has pre-applied dry thread locker. Loctite® or other thread locking compound is not required.
3. Hand thread rotary union onto axle hose fitting. **DO NOT** rotate axle hose fitting.
 4. Using a 3/8" wrench to prevent rotation of the axle hose fitting (Figure 3), tighten the rotary union shaft to 50±5 in-lbs (5.7±0.6 Nm) of torque.

NOTE: "A" and "B" ports shown in Figure 4 are important for proper tire location tracing. Port "A" is for the outer tire on dual tires as well as for super single tires.

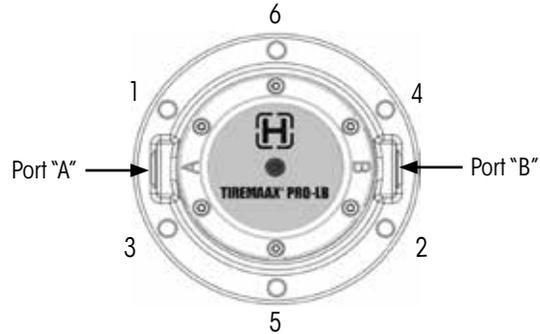


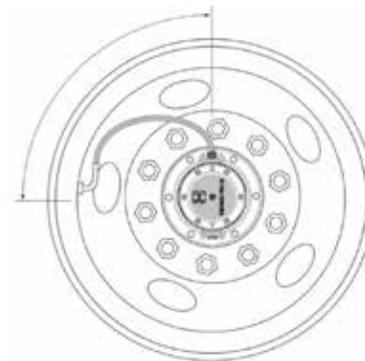
Figure 4: Hubcap torque pattern



A: 10 hand-hole wheel



B: 5 hand-hole wheel



C: 5 hand-hole super-single wheel

Figure 5: Proper clocking of hubcap to wheels

5. Place two opposing bolts in hubcap and align gasket to bolts.



6. Orient hubcap for proper tire hose routing. Aligning the tire hose ports so they are **between** the wheel mounting studs will provide the best tire hose routing [Figure 5 on page 6](#).
 - A. Ensure hubcap is clocked to aim tire hose ports between wheel studs
 - B. Clock wheels to align valve stem with hubcap tire hose port(s). If duals, align inner wheel (straight hose) first.
7. Install all hubcap bolts and hand tighten.
8. Tighten hubcap bolts in the order shown in [Figure 4 on page 6](#) to 15±3 ft-lbs (20±4 Nm) of torque.
9. Repeat steps 1-8 for each wheel-end.

TIRE HOSE INSTALLATION

Tire hoses connect the hubcap to the valve stem on the wheel.

NOTICE: No part of the tire hose can extend beyond the hubcap and tire.

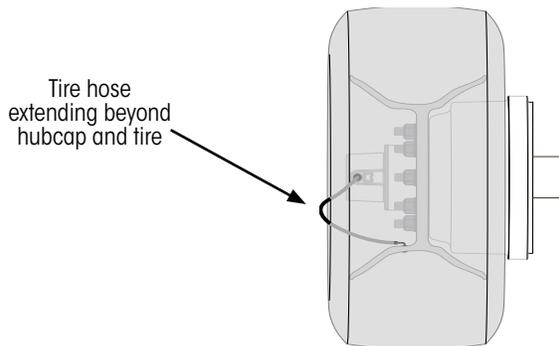


Figure 6: Improper tire hose installation (super single shown)

This procedure applies to both dual and super single installations and assumes the wheel is off during the TIREMAAX TPMS hubcap installation. If wheel is on and properly clocked, go to Step 2.

1. Using two lug nuts, mount wheel on hub with the rotation clocked for best tire hose placement ([Figure 5 on page 6](#)).

NOTICE: The wheel must be properly "clocked" to the hubcap to prevent the tire hoses from rubbing on the wheel and extending beyond hubcap and tire.

2. Remove nylon port plugs from hubcap tire hose ports using a Torx T45 driver and discard. For single tire applications, remove one plug. For dual tire applications, remove both plugs.

3. Attach the tire hose(s) directly to the tire valve stem(s).

NOTE: When starting installation to valve stem, hold tire hose with free hand to prevent side loading and avoid cross-threading. The tire hose fitting should easily turn 3 to 4 rotations by hand. Any drag before 3 turns suggests cross-threading. **DO NOT** use valve stem extenders.

4. Tighten the tire hose/valve stem connection **finger tight** ([Figure 7](#)).
5. Using a 7/16" wrench, tighten the tire hose/valve stem connection an additional one-half turn ([Figure 7](#)). **DO NOT** overtighten this connection.

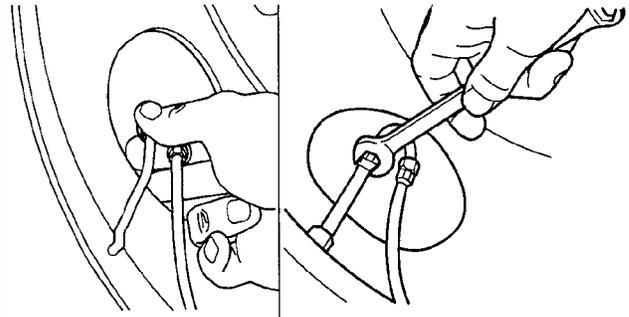


Figure 7: Attaching tire hoses to wheel valve stem

NOTE: If using a torque wrench, tighten to 28±2 in-lbs (3±0 Nm) of torque.

6. Ensure hose connection is tight enough that when moving the hose back and forth, it does not cause the connection to move.

IMPORTANT: When starting the nut, hold the tire hose with free hand to prevent side loading and avoid cross-threading. The knurled nut should easily turn 3 to 4 rotations by hand. Any drag before 3 turns suggests cross-threading.



Figure 8: Dual tire hose to hubcap connections



Figure 9: Super-single tire hose to hubcap connection

- Loosely connect other end of tire hose(s) (Figures 8 and 9) to the outlet port of the hubcap and check to ensure hose(s) do not rub on the wheel or extend beyond the hubcap and wheel.

If not:

- Disconnect tire hose(s) at hubcap only
- Remove lug nuts and wheel
- Adjust clocking of wheel, then repeat Step 1 through Step 5 as needed.

- Once properly clocked, install remaining lug nuts and tighten all to manufacturer's specifications.
- Hand-tighten hubcap connection(s) from Step 7. Using pliers, carefully and gently verify the hose connection is tight.

NOTE: DO NOT overtighten the tire hose nut or damage the finish. Doing so will make tire hose removal extremely difficult for service requirements.

- Repeat procedure for remaining wheel-ends.

REPLACEMENT PROCEDURES

This procedure applies to the replacement of TIREMAAX TPMS sensor components.

- Turn OFF the TIREMAAX system.
- Verify tire hoses are disconnected from hubcap.
- Remove the six IP20 torx screws from the top of the TIREMAAX TPMS sensor.

- Remove old TIREMAAX TPMS sensor from hubcap.
- Remove two O-rings within hubcap.
- Remove old gasket - gasket may stick to hubcap. Gasket **MUST** be fully removed from the hubcap surface.

NOTICE: Any old gasket remnants must be carefully removed from the top hubcap surface. Ensure not to scratch or mar this surface in the removal process. This is important to ensure new TIREMAAX TPMS sensor and gasket seal adequately.

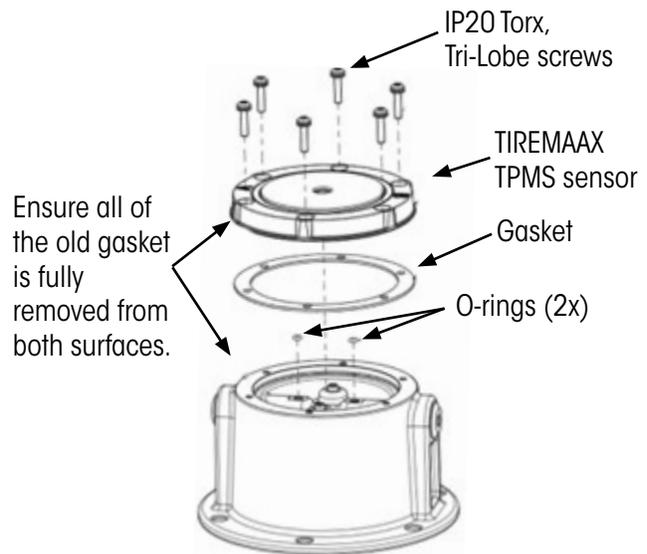


Figure 10: TIREMAAX TPMS hubcap components replacement

- Install two new O-rings within hubcap.

NOTE: It is recommended that a SMALL FILM of grease is applied to the O-rings to help ensure they don't fall out of the gland during install.

- Install new gasket and TIREMAAX TPMS sensor, as shown in

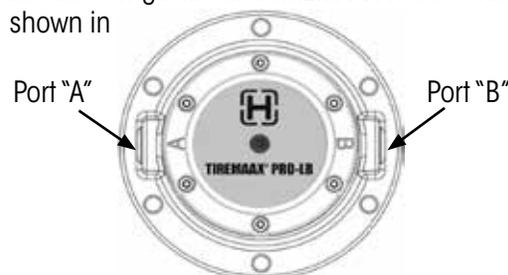


Figure 11: TIREMAAX TPMS sensor Port A and B orientation



NOTE: "A" and "B" ports shown in Figure 11 are important for proper tire location tracing on the TIREMAAX TPMS sensor. It is recommended for consistency that port "A" is used for the outer tire in a dual tire scenario, or is the port used in a super single scenario.

9. **Torque** all six torx screws to 45 in-lbs in sequence shown in Figure 12.

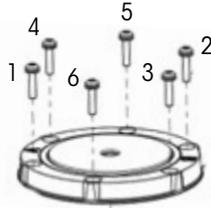


Figure 12: *Torque sequence*

10. Ensure tire hoses have been reconnected. Perform leak check on replaced TIREMAAX TPMS sensor unit by activating TIREMAAX system to pressurize the hubcaps. Ensure no audible sound of air is coming from the replaced TIREMAAX TPMS sensor and no air is escaping from axle vent. Also, verify proper function through the Hendrickson WATCHMAN APP after following the procedures of commissioning and pairing the system on page 10.

TIREMAAX TPMS SENSOR WITH HUBCAP REPLACEMENT

1. Take note of the old hubcap clocking in relation to the wheel valve stems before starting hubcap removal – this is important for proper tire hose fit after reinstalling.
2. **Remove** tire hoses.
3. **Remove** the (6) 1/2" hex hubcap bolts from the old hubcap.

NOTE: Removing the hubcap from the hub may require a 3/16" Allen to unthread tamper-resistant bolt.

4. Unthread rotary union from axle hose.

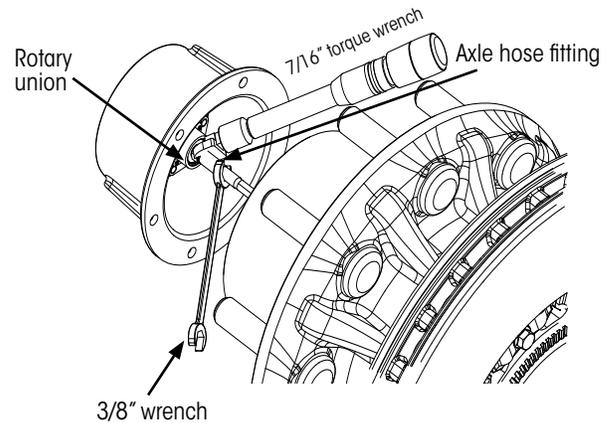


Figure 13: *Hubcap to axle hose connection*

5. **Remove** hubcap gasket and any remnants from the top hub surface.

NOTICE: Any old gasket remnants must be carefully removed from the top hub surface. Ensure not to scratch or mar this surface in the removal process. It is important to ensure the new hubcap and gasket seal adequately.

6. **Repeat** the steps and tips listed for tire hose installation on page 7.
7. Perform leak check on replaced hubcap unit by activating TIREMAAX system to pressurize the hubcaps.
 - A. Ensure no audible sound of air is coming from the replaced hubcap and no air is escaping from axle vent.
 - B. Verify proper function through the Hendrickson WATCHMAN APP after following the procedures of SYSTEM FINAL CHECK/VALIDATION on page 11.



SETTING UP/USING THE SYSTEM

This procedure applies to the general software set-up for TIREMAAX TPMS sensor component new and replacement scenarios.

NOTE: Android device or iOS device (not provided by Hendrickson) required for use with Hendrickson WATCHMAN APP. Requires latest iOS version or previous two releases. NFC (NEAR FIELD COMMUNICATION) capability required for Android and iOS devices.

CONFIGURE SYSTEM

For first time use of the system. Ensure all TIREMAAX TPMS sensor hubcaps are installed onto each of the proper wheel locations. Once the physical installation is verified, follow the general steps listed below.

NOTE: NFC scan activates the sensor and takes it out of "Shipping" mode.

1. Open Hendrickson WATCHMAN APP (User Account required to change settings)
2. From TIREMAAX TPMS menu, select "Setup My Sensor"
3. Follow the in-app prompts to scan the NFC by placing the phone flat against the sensor and slowly moving it around. The phone will vibrate after a successful scan, Figure 14.
 - A. If unable to trigger the NFC scan, return to the TIREMAAX TPMS menu. Select "Setup My Sensor" and follow the prompt to scan the QR code, Figure 15.

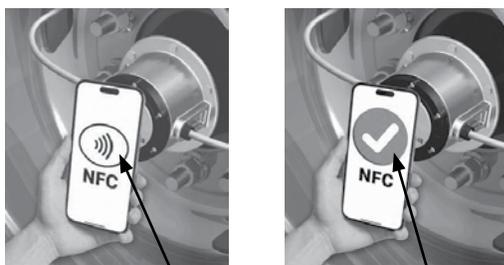


Figure 14: NFC scan



Figure 15: QR scan

4. Assign wheel location while connected to each TIREMAAX TPMS sensor
5. Assign Tire Type (Dual/SS) for port A/B settings
6. Wait until each sensor shows as "Connected-Online"

NOTICE: Refer to the TROUBLESHOOTING section on pages 12-13 if having any issues with the above steps.

7. If applicable, connect TIREMAAX TPMS sensors to Vehicle Telematics device (Not Supplied by Hendrickson)
 - A. Unique Bluetooth MAC address laser etched in text and QR code located on each TIREMAAX TPMS sensor
 - B. Gateway or Telematics supplier may require scanning the QR code on each TPMS Sensor
8. Perform SYSTEM FINAL CHECK / VALIDATION to perform final check on page 11.

TIREMAAX TPMS SENSOR REPLACEMENT

Ensure all TIREMAAX TPMS sensor hubcaps are installed onto each of the proper wheel locations. Once the physical installation is verified, follow the general steps listed below based on the appropriate scenario.

Sensor Replacement

1. Open Hendrickson WATCHMAN APP (User Account required to change settings).
2. From TIREMAAX TPMS menu, select "Setup My Sensor".



3. NFC scan each TIREMAAX TPMS sensor to connect and configure it (See Figure 14) Note: An NFC scan activates the sensor and takes it out of "Shipping" mode.
4. Assign wheel location while connected to each TIREMAAX TPMS sensor.
5. Assign Tire Type (Dual/SS) for port A/B settings.
6. Wait until each sensor shows as "Connected-Online".

NOTE: Third party vehicle telematics device (not provided by Hendrickson) may require configuration changes for replacement TIREMAAX TPMS sensor.

SYSTEM FINAL CHECK / VALIDATION

Verify Hendrickson WATCHMAN APP Connection to TIREMAAX TPMS sensors.

1. Health Check to verify TIREMAAX TPMS sensor communication.
 - A. Log-in to the APP
 - B. From 'Trailer' menu, select 'THE SAVED TRAILER' (if applicable).
 - i. If trailer is not created in APP, continue to step 1D.
 - C. Verify all tire pressures and wheel-end temperatures are displayed.
 - D. If trailer is not created, select the "TIREMAAX TPMS" menu. Select "Read TPMS Data" and follow the in-app prompts.
 - E. Verify tire pressure, wheel-end temperature, wheel type and wheel position are displayed.
 - F. Return to "TIREMAAX TPMS" menu and repeat for each remaining wheel-end.
2. If issues occur during the Health Check steps listed above, refer to the TROUBLESHOOTING section starting on pages 12-13.



TROUBLESHOOTING

Symptom	Cause(s)	Action
User is unable to Log in to Hendrickson WATCHMAN APP	<ul style="list-style-type: none"> • Device running Hendrickson WATCHMAN APP does not have an Internet connection. • User does not have Hendrickson WATCHMAN APP login/password setup. • User has Hendrickson WATCHMAN APP account but unable to login. 	<ul style="list-style-type: none"> • Ensure device has internet service. • Ensure Hendrickson WATCHMAN APP is downloaded from the Play Store or iOS APP Store. • Create User Account. • Verify correct login information (reset password if required). • Close APP, retry login . • Ensure latest version of the APP is installed. • Contact Hendrickson Service (contact information shown in APP).
Unable to connect to TIREMAAX TPMS Sensor (NFC)	<ul style="list-style-type: none"> • Incorrect Device Settings (NFC not turned on). • No NFC response from TPMS sensor (distance). • TIREMAAX TPMS sensor battery is dead. • TIREMAAX TPMS sensor NFC function has failed. 	<ul style="list-style-type: none"> • Ensure device settings are configured per below: <ul style="list-style-type: none"> – Device has Internet service – NFC is Enabled. • Move the device around so a different area of the device is contacting the sensor. <ul style="list-style-type: none"> – It may be necessary to try multiple device positions depending on NFC antenna location. • Try connecting using one of the following additional connection methods: <ul style="list-style-type: none"> – Scan QR code. • If APP indicates TIREMAAX TPMS sensor not responsive, replace TIREMAAX TPMS sensor.
Unable to monitor TIREMAAX TPMS sensor	<ul style="list-style-type: none"> • Incorrect Device Settings • User not logged in with an authenticated account. • TIREMAAX TPMS sensor not activated via NFC (see previous page). • Low or no signal from TIREMAAX TPMS sensor (distance or interference). • TIREMAAX TPMS sensor battery is dead. • APP indicates “Position Saved” but position did not update after navigating back. 	<ul style="list-style-type: none"> • Ensure device settings are configured per below: <ul style="list-style-type: none"> – Device has Internet service – Bluetooth is enabled • Login to Hendrickson WATCHMAN APP using authenticated user account. • Maintain close distance to TIREMAAX TPMS sensor. • If APP indicates TIREMAAX TPMS sensor not responsive, replace TIREMAAX TPMS sensor. • After navigating back to the Trailer or Read TPMS screen, retry changing the sensor wheel end position.



Symptom	Cause(s)	Action
Unable to change TIREMAAX TPMS sensor "Wheel Type"	<ul style="list-style-type: none"> • Incorrect Device Settings (NFC not turned on). • User not logged in with an authenticated account. • Low or no signal from TIREMAAX TPMS sensor (distance or interference). • TIREMAAX TPMS sensor battery is dead. • TIREMAAX TPMS sensor NFC function has failed. 	<ul style="list-style-type: none"> • Ensure device settings are configured per below: <ul style="list-style-type: none"> – Device has Internet service – NFC is Enabled • Login to Hendrickson WATCHMAN APP using authenticated user account . • Maintain close distance to TIREMAAX TPMS sensor. • If APP indicates TIREMAAX TPMS sensor not responsive, replace TIREMAAX TPMS sensor.
Unable to change port setting (disable port for Super Single tire)	<ul style="list-style-type: none"> • Incorrect Device Settings (NFC not turned on). User not logged in with an authenticated account. • Low or no signal from TIREMAAX TPMS sensor (distance or interference). • TIREMAAX TPMS sensor battery is dead. • TIREMAAX TPMS sensor NFC function has failed. 	<ul style="list-style-type: none"> • Ensure device settings are configured per below: <ul style="list-style-type: none"> – Device has Internet service – NFC is Enabled • Login to Hendrickson WATCHMAN APP using authenticated user account . • Maintain close distance to TIREMAAX TPMS sensor. • If APP indicates TIREMAAX TPMS sensor not responsive, replace TIREMAAX TPMS sensor.
User interface (Telematics Dashboard) shows no data from TIREMAAX TPMS sensor	<ul style="list-style-type: none"> • TIREMAAX TPMS sensor not configured using Hendrickson WATCHMAN APP. • TIREMAAX TPMS sensor battery is dead . • Telematics device or gateway module (Not by Hendrickson) not communicating. 	<ul style="list-style-type: none"> • Follow steps for configuring/enabling TIREMAAX TPMS sensor using Hendrickson WATCHMAN APP. • If APP indicates TIREMAAX TPMS sensor not responsive, replace TIREMAAX TPMS sensor. • If all TIREMAAX TPMS sensors are shown good in the APP, then contact Telematics provider.
Unable to Wake Sensor from Shipping mode	<ul style="list-style-type: none"> • Incorrect Device Settings (NFC not turned on). • Device does not have NFC capability • Device NFC antenna location not held close enough to center of TIREMAAX TPMS sensor. • Note: NFC antenna locations vary from device to device • APP sensor configure screen not showing "connected". 	<ul style="list-style-type: none"> • Ensure device settings are configured per below: -NFC is Enabled • If device does not have NFC capability, it is not possible to wake the TIREMAAX TPMS sensor. Please use a different device. • Move the device around so a different area of the device is contacting the sensor. • It may be necessary to try multiple device positions depending on NFC antenna location. • Ensure device is placed flat against sensor. • If the APP progresses to the configure sensor screen but does not show "Connected", then hit refresh or go back and try again.

FCC AND CANADA ISED STATEMENTS

NOTICE:

This device complies with Part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and**
- (2) This device must accept any interference received, including interference that may cause undesired operation.**

L'émetteur/recepteur exempt de licence contenu dans le present appareil est conforme aux CNR d'Innovation, Sciences et Developpement economique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

l'appareil ne doit pas produire de brouillage, et

l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiofrequency radiation exposure Information:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm (8 in.) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTICE:

Changes or modifications made to this equipment not expressly approved by Hendrickson may void the FCC authorization to operate this equipment.



Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

Call Hendrickson at 866.RIDEAIR (743.3247) for additional information.



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T51008 Rev A 12-25 CN047740

8-25 CN045291

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Printed in the United States of America