

External Sensor Replacement Guide

TPMS (Tyre Pressure Monitoring System) — Step-by-step procedure for replacing an external sensor, clearing the damaged sensor ID, and pairing the new unit to the cab display receiver.

Phase 1

Overview & Preparation

Phase 2

Physical Sensor Replacement

Phase 3

Clearing Damaged Sensor ID

Phase 4

Pairing New Sensor to Display

Overview & Preparation

 **Important:** Ensure the cab display receiver unit is switched **ON** before replacing the sensor so live signals are captured immediately.

Required Tools & Materials

Replacement External TPMS Sensor

The new sensor unit to be fitted to the valve stem.

TPMS Anti-Theft Spanner

Supplied specialist tool for loosening and tightening the anti-theft nut.

Soapy Water Solution

Used for leak testing around the valve stem base after installation.

Physical Sensor Replacement

1 Remove Old Sensor

Use the supplied spanner to loosen the anti-theft nut **counterclockwise**, then unscrew the damaged external sensor.

2 Fit Anti-Theft Nut

Thread the new anti-theft nut **clockwise** onto the tyre valve stem.

3 Install New Sensor

Screw the new external sensor **clockwise** onto the valve stem until hand-tight.

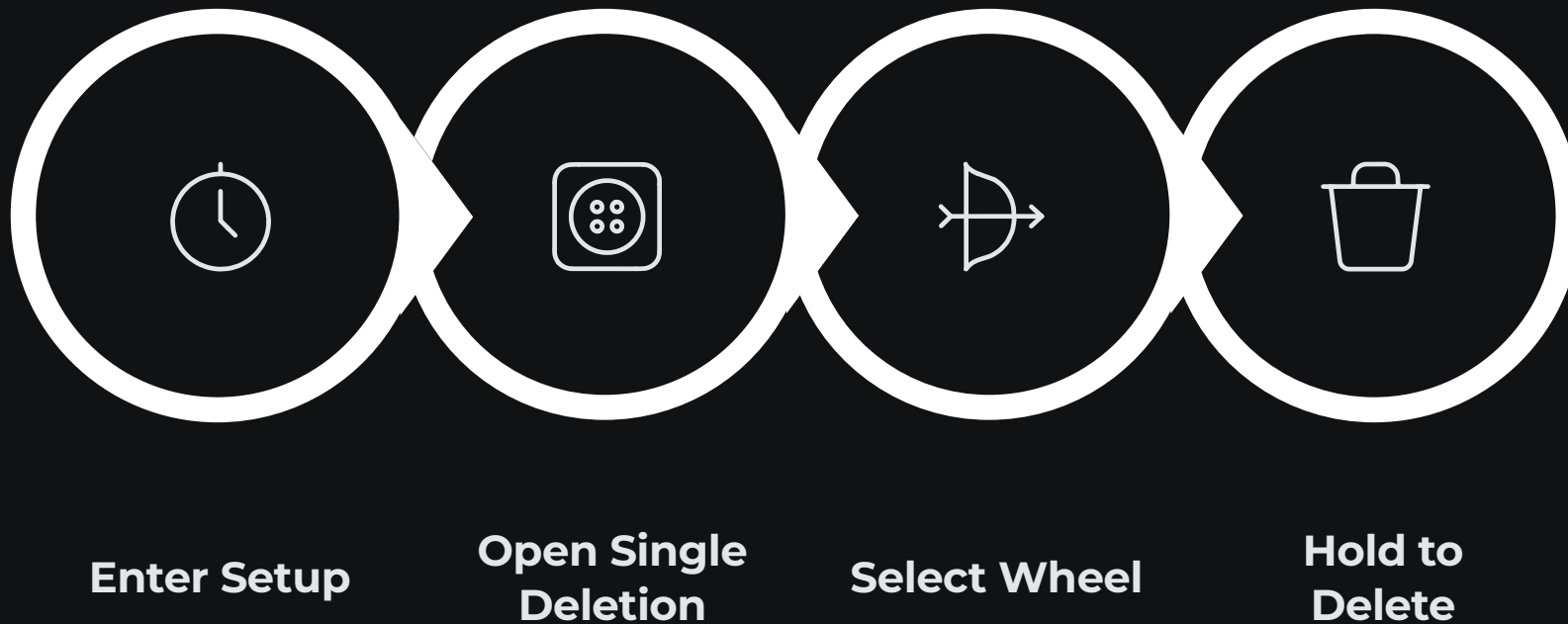
4 Lock Assembly

Tighten the anti-theft nut **counterclockwise** against the base of the sensor using the spanner to secure it against theft and vibration.

5 Leak Test

Spray or smear soapy water around the valve stem base to confirm there are no air leaks.

Clearing Damaged Sensor ID



Step-by-Step Detail

1. **Enter Setup:** On the cab receiver display, press and hold the **ID button** for **3 seconds**.
2. **Access Single Deletion:** Press the ID button briefly **once more** to enter the single tyre ID deletion screen.
3. **Select Target Wheel:** Use the **Left or Right arrow keys** to highlight the specific wheel position containing the damaged sensor.
4. **Delete Code:** Press and hold the **M button** to wipe the existing code. The screen will display **DEL OK** upon successful removal.

Screen Timeout Note

The deletion screen automatically exits after **30 seconds** of inactivity. If the screen reverts to the main menu while reading instructions, hold the ID button for 3 seconds to reopen the setup screen.

- Do not power off the cab display unit at any point during this procedure. The receiver must remain active to capture the new sensor signal in the next phase.

Pairing New Sensor to Display

Pairing Steps

1. **Open Matching Mode:** From the main display screen, press and hold the **ID button** for **3 seconds**.
2. **Select Wheel Location:** Use the **Up, Down, Left, or Right arrow keys** to highlight the target wheel position (the icon will flash continuously).
3. **Trigger Signal:** Screw or unscrew the new external sensor onto the valve stem to force a wireless signal transmission.
4. **Confirm Pairing:** The receiver unit will **beep** and automatically log the new sensor ID once captured.
5. **Save & Exit:** Press the ID button **twice** (or leave idle for **90 seconds**) to save settings and return to the main operational screen.

Tips & Troubleshooting

Watch the Screen Timeout

Pairing mode exits after **90 seconds** idle (30 seconds during single deletion). Hold ID button 3 seconds to reopen.

Understanding the Lock Nut

Thread nut clockwise first, screw sensor hand-tight, then turn spanner **counterclockwise** to jam nut against sensor base. **Do not overtighten** — valve threads may strip.

Waking Up a Stubborn Sensor

External sensors sleep when static. If no signal triggers, unscrew and re-thread, or release **2–3 PSI** of air to force a live transmission.

Clean the Valve Stem First

Always wipe road grime, dirt, or corrosion from valve stem threads before fitting the new sensor to avoid air leaks.

Confirm Pressure Units

Display defaults to **Bar**. To switch to PSI: hold M button 3 seconds on main screen → use Left/Right arrows to select PSI → press M to save.