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Technical Bulletins

■ TECH BULLETIN: TPMS Programming Instructions RV/HD/CE360

Please follow this process for initial Sensor programming of the RV360/HD360/CE360 model TMS.

1. Identify which Sensor ID number is to be programed to each wheel position. **Do not fit the Sensors yet.** Use the 3 large digits or last 3 digits of the Sensor ID #, and record on the card provided or piece of paper.

2. To enter **Program Mode,** unlock the display if currently locked – See section a) below for details.

3. With ignition on, hold down **P** or **Prog** button 5 seconds to enter the **Program Mode** on the display – See section b) below.
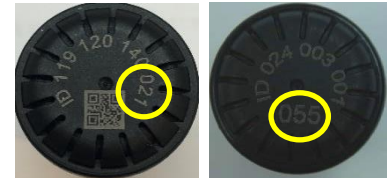
Figure 1.

4. If replacing a Sensor, first go to the *Program Delete* screen by momentarily pressing the **P** button several times until you see *Program Delete*. See sections g) and h) below for details.

5. First screen - Program the Sensor ID # into required wheel positions. Use the 3 large digits or last 3 digits of the Sensor ID #. When finished, scroll through all unrequired wheel positions, and make sure they are all [---] with no numbers, as this will prevent correct functionality - See section c) below.

6. Momentarily press the **P** button to change to the Baseline tyre pressure setting screen - default is 100 PSI. Change the pressure level setting if necessary - See section d) below.

7. Hold down **P** or **Prog** button 5 seconds to switch back to the **Monitoring Mode** on the display. It should read "NSP" until you fit the Sensors.

8. **Time to fit the Sensors**. Check that the valves are in good working condition. Use a quick squirt of silicon lubrication spray to lubricate the rubber seals in the Sensors.

9. Screw each Sensor onto its programmed wheel position around the vehicle (Refer to your record card). The Sensors will activate with air pressure, but it may take a few minutes to register a pressure on the display (Go check the display). If not yet showing, partially unscrew the Sensor and leave off for at least 30 seconds to force a change in pressure signal from the Sensor (This may trigger a Low Pressure Alert). Then refit the Sensor and check the display. Repeat this step until all Sensors have registered a pressure – See section j) below.

10. Once all programmed Sensors are showing air pressure on the display, programming is completed indicated by the green LED. See below.
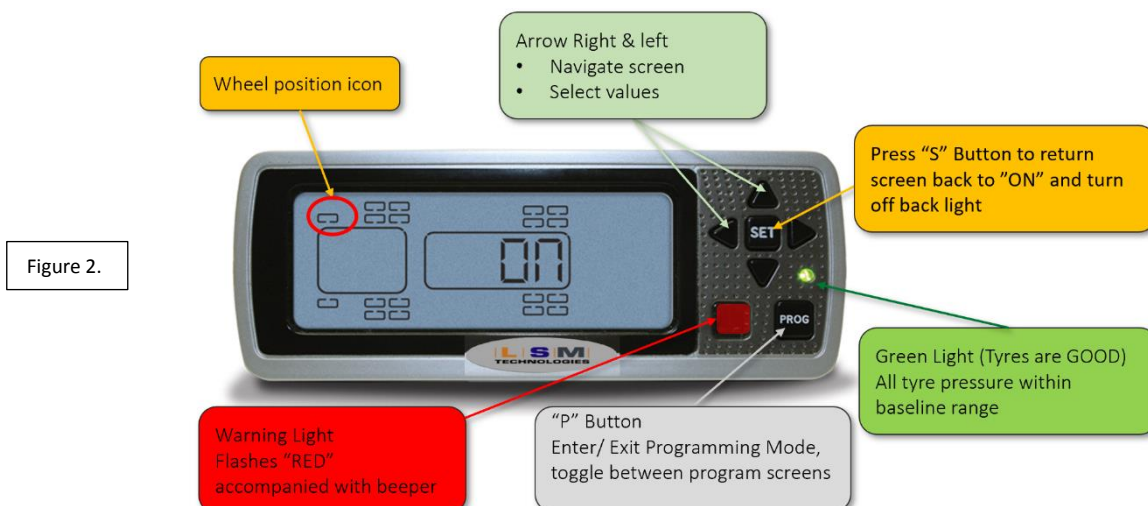
Arrow Right & left
- Navigate screen
- Select values

Wheel position icon

Press "S" Button to return screen back to "ON" and turn off back light

Figure 2.

Green Light (Tyres are GOOD) All tyre pressure within baseline range

Warning Light Flashes "RED" accompanied with beeper

"P" Button Enter/ Exit Programming Mode, toggle between program screens

Department	Technical: Tyre Monitoring Systems	**Pages**	1 of 1	**Issue Date**	23/09/2020
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a) **LOCK/ UNLOCK** Feature – for preventing accidental reprogramming or tampering with the system after the programming function is completed. To use this function, the **red** power wire must be connected to constant battery, the **blue** power wire to ignition power, and the black wire to ground. **You will need to unlock the display prior to programming.**

    i. **LOCK**: - To lock the monitor, with battery power to the monitor and ignition turned off, **PRESS** and **HOLD** the **UP & DOWN ARROWS** and **PROGRAM** buttons (Fig.2) at the same time. When the **"L"** appears on the screen, release the buttons – the system is now locked.

    ii. **UNLOCK**: - To unlock the monitor, repeat the steps above and a **"U"** will appear on the display and it is now unlocked. You can now enter the programming mode.

b) **PROGRAM MODE**: - With power/ignition ON, **PRESS** and **HOLD** the **P** (Programming) button for approximately 5 seconds to enter program mode. You can momentarily press the **P** button to toggle through all the programming function screens.

c) **SENSOR ID TYRE POSITION:** - Use arrow keys to select the appropriate tyre position. **PRESS** and **HOLD** the **S** (Set) button (Fig. 2). The first dash in the display [- - -] will begin blinking. With the arrow keys, enter the 3-digit ID# (Fig.1) from the pressure sensor associated with the current tyre position. **PRESS** and **HOLD** the **S** button to save this 3-digit ID# to the position. The cursor will move to the next available position – with the arrow keys you can manually select the next tyre position to program. Repeat step b) until all the applicable Sensors ID#'s are programed.

d) **BASELINE PRESSURE PROGRAM**: - **PRESS** and **RELEASE** the P button to move into the baseline tyre pressure programming screen. The right-hand side of the display will say **'PRESSURE PSI PROGRAM'**. Using the arrow keys, scroll to the first tyre position you want to adjust. **Default baseline pressure will be displayed (100 psi). PRESS** and **HOLD** the **SET** button. The first digit (number 1) will blink. With the arrow buttons, adjust pressure setting for each position being utilised. **PRESS** and **HOLD** the **S** button to lock the new baseline pressure into the display for each tyre. You can change all at once by simply - **PRESS** and **HOLD** the **S** button + **P** button simultaneously to lock the new baseline pressure into the display for all tyre.

e) **TIME and DATE**: - **PRESS** and **RELEASE** and **P** button to confirm/ adjust CLOCK SETTINGS (Year/Month/Day/Hour/Minutes). Press **DOWN** arrow to toggle through. HOLD **S** button and use arrow keys to adjust setting. (It is only necessary to program the time & date if you want to correctly time and date stamp alert events.

f) **PRESSURE UNIT**:- **PRESS** and **RELEASE** the **P** button to modify the pressure unit of measure (**PSI/KPA/BAR**) – the Default is PSI.

g) **PROGRAM DELETE**: - **PRESS** and **RELEASE** the **P** button to move to the program delete screen. On initial programming/ installation, this screen will read **"NSP"**. Once sensors are fitted to valve stems and initiate communications with the display, this screen will show all active tyre positions.

h) **SENSOR DELETE**: - Use arrow keys to select Sensor ID# to be deleted – **PRESS** and **HOLD** the **S** button until you hear a "beep" to delete the Sensor ID#. If **DELETING** a **SENSOR** and entering a new/ replacement sensor, go to step c).

i) **SENSOR INSTALLATION**: - **HAND-TIGHTEN** tyre pressure sensors onto valve stems.

j) Once all programmed Sensors initiates RF communication with the monitor a **GREEN LIGHT** will be visible on the right side of the monitor. If any tyre is under-inflated 12.5% or more below the programmed baseline pressure, a **RED LIGHT** low pressure alert for the affected tyre will be visible.