

EXTREME DUTY TPMS - System Installation



Generic TPMS Installation Guide For Extreme Duty Vehicles

Please find the following components in your kit. If any items are missing, please contact Valor Inc. at 1-800-568-9188.

A



1 x 2" Round Display
5.5KPA
110302040399

B



1 x Transceiver
110302040385

C



1 x DL Harness w/
Powercord
110302040395

D1



2 x Antenna 1M
(OTR, White)
110302040482

D2



2 x Antenna 3M
(OTR, White)
110302040447

D3



1 x Antenna 5M
(OTR, White)
110302040448

D4



1 x Antenna 8M
(OTR, White)
110302040449

E1



1 x Antenna Ext
Cable 1M (OTR, White)
110302040450

E2



1 x Antenna Ext
Cable 3M (OTR, White)
110302040451

F



1 x Splitter Box
110302040349

G



1 x Plastic Tie
110302040289

H



1 x Buzzer 95db
110302040390

There Are 6 Installation Steps For This Product:

1. PRELIMINARY LOCATION INSPECTION

Prior to installing the system, please confirm the following requirements:

1. The 2-inch Round Display (A) should be installed into the dash or in a location that has a clear line-of-site for the operator. To install the Display directly into the dash first inspect the area behind the dash location where the display is to be mounted. Ensure that there is at least 3.5 inches of clearance available and that there are no obstructions (including wiring) present.
2. Next, select an installation location for the Transceiver (B). Ensure that the length of the supplied Wire Harness (C) will reach the previously identified location for the Display (A). Please note that the Transceiver should not be mounted behind metal in order to ensure that it can be programmed later. The Transceiver can be mounted either behind or under the dash depending on available space and materials.
3. Locate an appropriate 12-volt or 24-volt power source. Ensure that the Wire Harness (C) will reach the select power source.

2. ROUND (GAUGE) DISPLAY INSTALLATION

4. To install the 2-inch Round Display (A) into the dash, cut a 2^{1/8} inch hole into the dash panel (some disassembly of the dash maybe required). Use caution when performing this and be sure to avoid any wiring. An optional mounting bracket may be required if the Display is to be installed in a location other than into the dash.
5. Mount the Display (A) into the cut hole and secure.
6. Connect the square 6-pin Deutsch Connector from the Wire Harness (C) to the Display (A). Ensure that the factory-installed J1939 Terminal is connected to the 2-pin Deutsch Connector which is attached to the back of the square 6-pin Connector.
7. If you will be using the optional Audible Buzzer (H) component, plug it into the secondary lead that originates from the 6-pin Deutsch Connector. Coil the lead around the Wire Harness (C) and secure the connected Buzzer to the Wire Harness itself or to a securely-mounted part of the dash assembly using smaller cable ties (not supplied). If you will not be utilizing the optional Audible Buzzer, be sure to coil the lead around the Wire Harness and secure using cable ties.

3. TRANSCEIVER INSTALLATION

8. Mount and firmly secure the Transceiver (B) in the location selected previously.
9. Connect the Male 6-pin Molex connector on the Wire Harness (C) (labelled "Valor WRN-DL") to the matching Female Molex Connector on the Transceiver (B). A DB9 Serial Port Connector is attached to the opposite end of this lead - be sure to leave this Connector exposed as it will be used to plug into the Valor SmarTool for data downloading purposes.

4. POWER CONNECTION

10. Unplug the Power Section on the Wire Harness (C) - labeled "Valor WRN-DL-Power".
11. Route and connect the Power Harness to the previously identified vehicle power source, ensuring that the appropriate wire connectors to the power source:
 - ▶ Connect the **RED** Power Wires to Ignition Power on (Power On Key On)
 - ▶ Connect the **BLACK** Power Wires to Ground
 - ▶ Confirm power by testing with a test probe at the Male Molex Connector on the Power Cable. Be sure to test with the key in the "ON" position. If power is confirmed, replug the Power section of the harness back into the main harness were it was plugged into previously.

5. ANTENNA CONNECTION

12. Select the Antenna length (D 1-4) from the Kit that best suit your installation.
13. Identify Antenna locations by selecting areas that are well protected from damage but that are not completely blocked-off by metal as this can affect the Antennas' reception. An Antenna can be mounted on each side of the vehicle, or one in front and one at the back of the vehicle. Test Antenna reception before securing the antennas at the desired locations.
14. Locate an opening in the vehicle's cab through which you can route the Antenna Cable.
15. The HD Splitter Box (F) can be mounted either inside the vehicle's cab or outside as it is weatherproof. If the HD Splitter Box is mounted externally, connect the Antenna Extension Cable (E 1-2) and the two previously installed Antenna leads to the HD Splitter Box (F). Route the open end of the extension cable back into the cab and connect to the Transceiver (B). If the HD Splitter Box is mounted inside the cab, route the two Antenna leads into the cab and connect these to the HD Splitter Box. Route the Extension Cable (E1) back to the Transceiver (B).

6. FINALIZING INSTALLATION

16. Program the Sensors as per instructions in *Wireless Sensor Programming Guide*, and test the system.
17. Secure all wires and antenna leads using the provided Nylon Cable Ties (G)
18. Reassemble all vehicle parts that you had disassembled for the installation.