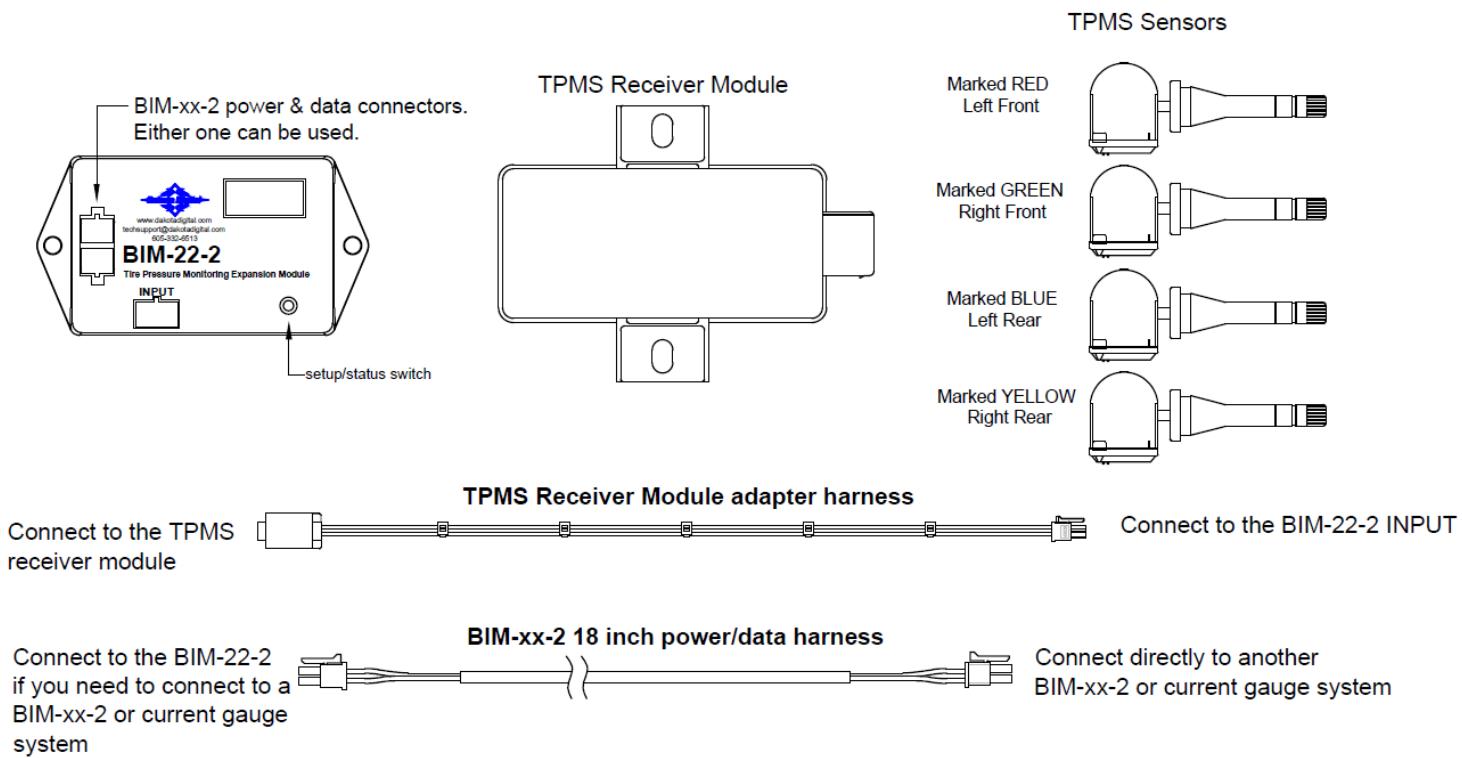


## HDX QUICK START GUIDE FOR BIM-22-2 - TPMS (Tire Pressure Monitoring System)

This guide is designed to get you up and running quickly with the BIM-22-2 on an HDX system. It provides a brief installation explanation as well as a step-by-step *Locate* procedure for finding the sensors' positions after a tire rotation has taken place.



This BIM-22-2 communicates with a TPMS Receiver Module which receives tire pressures and other information from four TPMS pressure sensors installed in a vehicle's tires. It then provides this information for displaying on an HDX instrument system.

- Do not mount the BIM-22-2 and TPMS Receiver modules in the engine compartment; they should be mounted in the interior of the vehicle. In situations where TPMS reception is not adequate inside the interior of the vehicle, the weatherproof TPMS Receiver Module can be mounted outside on the chassis near the center of the vehicle for better reception of the RF transmission signals from the TPMS sensors.
- The BIM-22-2 should be installed in a location where its display and switch are accessible in the event a TPMS Sensor needs to be replaced (See *BIM Learn Sensors Mode* in the section *Special Operating Modes* of the BIM-22-2 owner's manual).
- Connect the BIM-22-2 to the HDX control box using the *BIM-xx-2 18 inch power/data harness*.
- Connect the BIM-22-2 to the TPMS Receiver Module using the *TPMS Receiver Module adapter Harness*.
- Install the TPMS sensors in the vehicle's tires to the locations indicated by their marked colors (LF = Red, RF = Green, LR = Blue, RR = Yellow).

## Sensor Location Procedure

The sensors are shipped with colors painted on them to indicate which location on the vehicle they are to be installed (LF = Red, RF = Green, LR = Blue, and RR = Yellow). However, in the event a sensor is installed in an incorrect location, or when tires are rotated, the system can be taught to "locate" the sensors without the need to move sensors to different tires. This procedure will only function properly if all four TPMS sensors are mounted in tires on a vehicle.

- Enter the HDX Setup menu by pressing both setup switches at the same time. The display will show the message ENTER SETUP with a progress bar. Maintain holding the switches until the progress bar completes moving to the right and the message RELEASE appears. At this time release the switches.
- Use either setup switch to scroll up or down until you come to the BIM selection.
- Press and hold either switch while the HOLD TO SET progress bar completes moving to the right and tells you to RELEASE. At this time release the switch.
- Use either switch to scroll up or down until you come to a BIM-22-2 selection.
- Press and hold either switch while the HOLD TO SET progress bar completes moving to the right and tells you to RELEASE. At this time release the switch.
- Use either setup switch to scroll up or down until you come to the LOCATE selection.
- Press and hold either switch while the HOLD TO SET progress bar completes moving to the right and tells you to RELEASE. At this time release the switch.
- If the message FILL LOW TIRES is displayed, it is possible sensor(s) need to be woken up. Sensors wake up with a change in pressure of more than 2 PSI. Another possibility is that one or more tires do not have at least 20 PSI of pressure. Inflate all tires so that more than 20 PSI is displayed for each tire in the TIRE PSI section of the display.
- Once all sensors are awake and all tires have at least 20 PSI, the HDX system will display DEFLATE LEFT FRONT. At this time, deflate the tire located at the Left Front (driver side, front axle) of the vehicle.
- When the HDX control box has detected enough of a pressure decrease to determine the sensor's location, an alarm will sound (if equipped with an alarm) and the system will display DEFLATE RIGHT FRONT. At this time, deflate the tire located at the Right Front (passenger side, front axle).
- When the control box has determined which sensor is at this location, an alarm will sound and the system will show DEFLATE LEFT REAR. At this time, deflate the tire located at the Left Rear (driver side, rear axle).
- When the control box has determined which sensor is at this location, an alarm will sound and the system will automatically determine the location of the Right Rear tire (passenger side, rear axle) and display FILL LOW TIRES. This is a reminder to fill all tires to their recommended levels before driving on them.
- Press and release the switch to exit the Locate menu.
- Press and hold switch to exit BIM Channel Setup.
- Press and release until BACK is displayed and selected.
- Press and release switch until EXIT SETUP is displayed and selected.
- Press and hold to exit Setup menu.

The BIM-22-2 system provides tire pressures in PSI for each of the four tires on a vehicle to a Dakota Digital instrument system control box. When the vehicle is first turned on, dashes will be displayed until the sensors have activated or "woken up" from their sleeping state. The sensors wake up after movement by driving the vehicle or if a pressure change of at least 2 PSI has taken place.

This behavior of going to sleep when the vehicle is not moving prolongs a sensor's battery life. After the sensors wake up, they report pressures to the TPMS Receiver Module, which in turn are reported through the BIM-22-2 to the HDX control box system.

**⚠WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



4510 W. 61st St. North  
Sioux Falls, SD 57107  
[www.dakotadigital.com](http://www.dakotadigital.com)  
[dakotasupport@dakotadigital.com](mailto:dakotasupport@dakotadigital.com)

Phone (605) 332-6513  
Fax (605) 339-4106

Copyright 2011 - Dakota Digital, Inc.