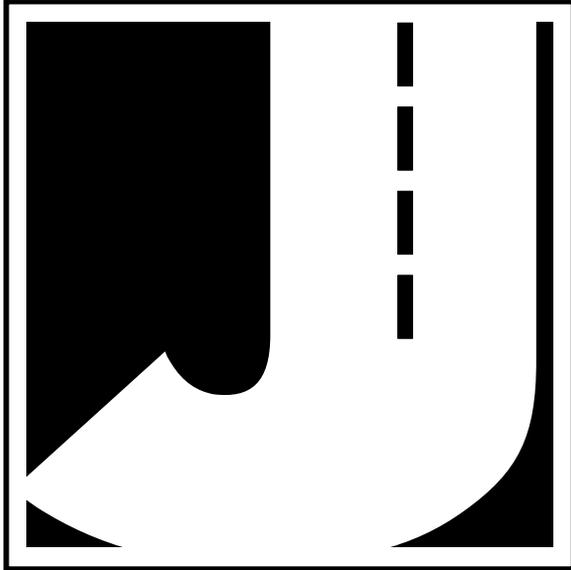## Installing the AutoLink II OBD Distance Sensor

The AutoLink II Distance Sensor allows direct connection between the On-Board Diagnostics (OBD) connector in your vehicle and the JAMAR RAC Plus Distance Measuring Instrument.

Note: Your RAC and vehicle should be turned off while plugging in the AutoLink II cables.

Step 1
Plug the large OBD cable attached to the AutoLink II into the vehicle OBD connector.

The OBD connector is typically found under your dash near your steering wheel column.

Step 2
Connect the grey telephone-style cable from the AutoLink II to the RAC Plus Power (PWR) port.

IMPORTANT: Note that the supplied grey telephone-style cable is the ONLY cable that should be used. **DO NOT** use any other cables that may have been provided with your RAC as you may damage your RAC or the AutoLink II.

Step 3
Now that the AutoLink II and the RAC are connected, start your vehicle. Next, turn on the RAC and the AutoLink II LED lights will begin flashing.

At this point, the **Lock** green LED will stay on and remain steady. A steady green Lock LED indicates the AutoLink II is communicating with, and is locked onto, the OBD signals coming from the vehicle computer.

The yellow "OBD Tx and Rx" LED lights confirm the transfer of information between the OBD and the AutoLink II. Note that on 2010 and newer vehicles the LEDs will flash very rapidly and may appear to be on constantly; this is normal.

The self-adhesive mounting tabs and the tie wraps included can be used to secure the OBD and the telephone-style cable as desired.

Step 4
Calibrate the RAC as described in the RAC manual. You are then ready to start collecting data.

For Best Results
• OBD speed signals are generally not available below 1 MPH. As such, the AutoLink II is not recommended for use where the vehicle may be traveling at 'creeping' speed for any length of time. Recording short distance nodes within a longer course using a stop and go method can result in less accurate data. This is a function of extreme low speeds introduced during starting and stopping. In these cases we recommend you use an alternative sensor type, like a magnetic sensor, for higher accuracy.

• Note that while the vehicle is in motion the RAC and the AutoLink II will have a small time lag while recording distances into memory. Also note there will be a final buffered distance on the RAC once the vehicle is fully stopped.

• After using your RAC, you should turn off the RAC while your vehicle is not being used. Power consumption of the RAC display, although minimal, may drain your battery if the vehicle is idle for an extended time with the RAC connected and turned on. This is particularly true if your battery is in poor condition.

• The AutoLink II is turned on and off by the RAC's power switch and as such can be left connected to the OBD port while not in use. Note that this was not the case with the original AutoLink I. The AutoLink I should always be disconnected from the OBD when not in use.

Troubleshooting
• The most common reason a RAC won't count is because the calibration factor has been accidentally cleared from its memory. On the JAMAR RAC, the calibration factor is displayed for 1 to 2 seconds every time the instrument is turned on. Make sure the factor is **not** showing all zeros (0.000).

If the RAC has a calibration number in memory but still won't count, check your connection to the vehicle's OBD plug. The green lock LED on the AutoLink II should be on and steady if it is getting a good signal from the vehicle's OBD connector.

• In some cases, removal of a previously wired-in distance sensor may be necessary before the AutoLink II will lock onto the OBD pulses.

• The AutoLink II is only recommended for use with the JAMAR RAC DMI. It is not recommended for use with any other brand of DMI.

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AutoLink is a patent pending product of North-Line Canada Ltd.   1.5