

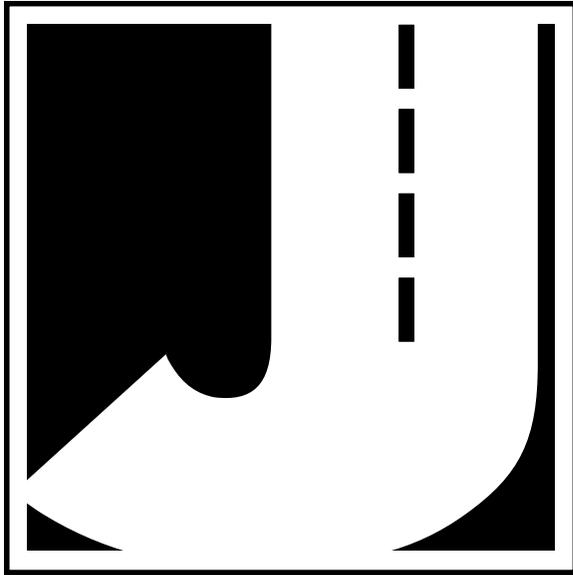
## Installing the AutoLink OBD Distance Sensor

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

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

### Step 1

**Plug the large OBD cable attached to the AutoLink into the vehicle OBD connector.**



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

Once you plug in the AutoLink the LED lights on the AutoLink case will begin randomly flashing. The **Lock** green LED will flash approximately every 7 or 8 seconds while the other yellow LEDs will flash rapidly while the ignition is off.

Next, turn your key to the “accessories” position only to lock on the green LED. Within a few seconds the green Lock LED will remain on and stop flashing. Once that occurs, turn on the ignition and start the vehicle.

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

The middle “OBD Tx and Rx” LED lights confirm the transfer of information between the OBD and the Auto Link. (The “MICRO Tx and Rx” LED lights, although flashing, are not used by the RAC and can be ignored.)

Note that on 2010 vehicles the LEDs will flash very rapidly and may appear to be on constantly; this is normal.

## Step 2

Connect the grey telephone-style cable from the AutoLink 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 Auto-Link.

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 3

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



**IMPORTANT:** The AutoLink consumes power while the vehicle is not being used. If the vehicle is going to be left idle for a day or more, disconnect the AutoLink from the vehicle's OBD port to prevent draining the vehicle's battery.

## For Best Results

• OBD speed signals are generally not available below 1 MPH. As such, the AutoLink 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 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 as it is powered through the AutoLink and the OBD. 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.

## 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 DMI, 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 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 Auto-Link will lock onto the OBD pulses.

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

**Warranty:** The AutoLink Sensor has a warranty of 90 days against defects in material or workmanship. During the warranty period, JAMAR Technologies will either repair or replace this product at no charge. The AutoLink Distance Sensor is not user serviceable. Opening the AutoLink case will void the warranty. Contact JAMAR for technical assistance with the AutoLink.

JAMAR Technologies does not warrant, or make any claims, that the AutoLink will meet your specific requirements of accuracy, suitability or compatibility. In no event shall JAMAR Technologies be liable for any damages whatsoever (including without limitation, direct or indirect damages for personal injury, loss of information, loss of data, loss of business profits, business interruption, or any other loss) arising out of the use of or inability to use the AutoLink, even if JAMAR Technologies has been advised of the possibility of such damages or loss. In any case the entire liability of JAMAR Technologies shall be limited to the amount actually paid by you for the AutoLink.



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