GPSI-3900I/E vPOD

Link: https://help.responsiblefleet.com/installation-guide/gpsi-3900ie-vpod/ Last Updated: November 18th, 2016

Before You Begin

The installation kit contains a registration card, the 3900 device, a 20-pin harness, a light-duty OBD-II bypass cable, a vPOD, and an external antenna (if applicable). Additional tools that you may need include a digital multimeter, a crimping tool, a razor knife or wire strippers, a butt connector, zip ties, electrical tape, and tamper seal compound.

Complete the registration card by locating the serial number of the device (labeled “ESN” or “SN”) and copying it onto the card. When the card is complete, you’re ready to start the installation.

Installation Overview

The following steps provide an overview of the installation process:

1. Locate the vehicles OBD-II port, and ensure proper voltage.
2. Free up existing OBD-II port.
3. Assemble mounting bracket, and connect bypass connector into vehicle’s OBD-II port.
4. Mount the replacement OBD-II port, and pull cable through the dash.
5. Install the external antenna, and route the cables.

   – INSTALL OPTIONAL ACCESSORIES –
6. Tape off all unused wires and connect the vPOD to harness AUX 1.
7. Locate ignition source and connect 20-pin harness white wire.

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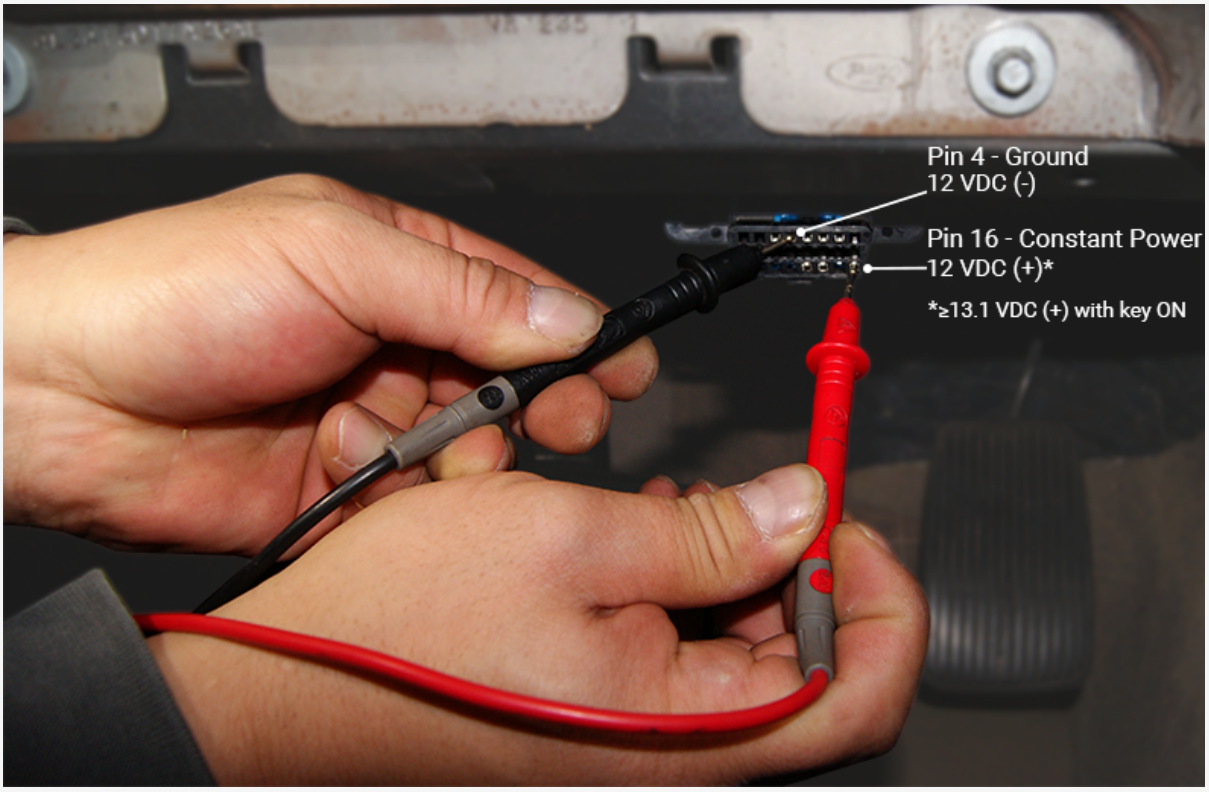
8. Connect the antenna cables to the device.
9. Connect the harness and mount the device.
10. Connect the vPOD to the bypass cable.
11. Verify installation, and tamper-proof remaining connections.

Installation Steps

1. Locate the vehicle’s OBD-II port, and ensure proper voltage.

1. Remove the lower, side, and upper dash panels.
2. Locate the vehicle’s OBD-II port.
3. With the vehicle running, use a digital multimeter to test the constant power of the port by placing the positive probe in Pin 16 and the negative probe in Pin 4. The port must provide 13.1 VDC (+) or more.

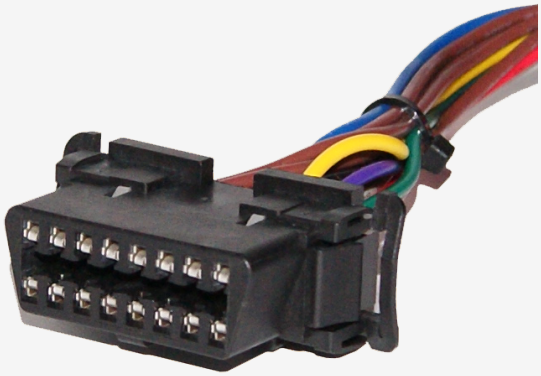


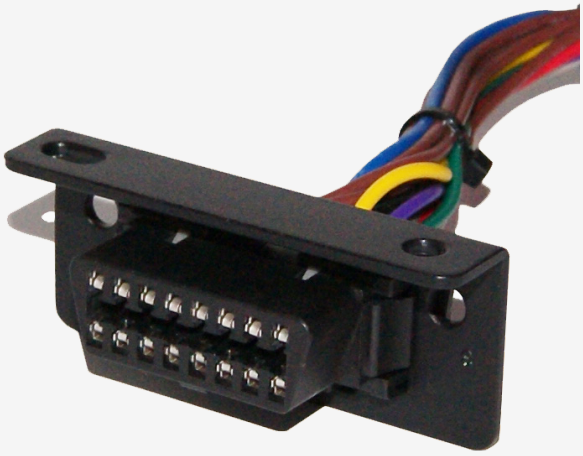
2. Free up existing OBD-II port.

1. Turn off the vehicle.
2. Free up the existing OBD-II port from its current location. This process is typically done by removing the two bolts that hold the port into place.

3. Assemble mounting bracket, and connect bypass connector into OBD-II port.

1. Place the OBD-II mounting bracket over the OBD-II replacement port.
2. Snap it into place.





4. Mount the replacement OBD-II port, and pull the cable through the dash.

1. Plug in the bypass connector into the vehicle’s OBD-II port.

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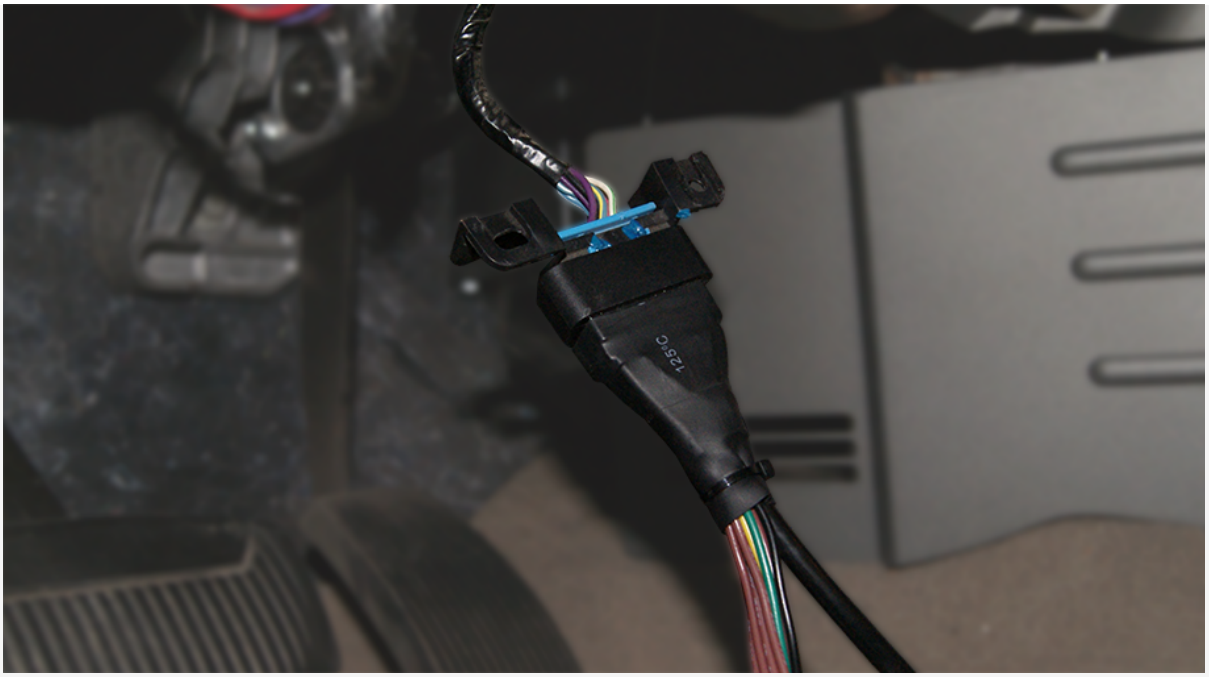

2. Mount the replacement OBD-II port using the original screws.
3. Pull the bypass cable through the front of the dash.

5. Install the external antenna, and route the cable. (For 3900E Devices Only.)

If your device has an external antenna, the recommended installation location for the antenna is inside the vehicle on a clear section of the windshield in either of the lower corners as close to the dash as possible.

1. Remove the A-pillar plastic.

2. Prepare the section of the windshield used for mounting by wiping it down with a dry cloth.
3. Peel back to expose the antenna’s adhesive, and press the antenna firmly to the windshield to eliminate as many air pockets as possible.
4. Route the antenna cables behind the dash cluster where the GPS device will be installed. Stay clear of any moving parts, and ensure the cable will not be pinched or cut when the dash is reassembled.
5. Put the A-pillar plastic back into place.

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(Install optional accessories now.)

6. Tape off all unused wires and connect the vPOD to harness AUX 1.

1. Tape off all unused wires on the 20-pin harness. Leave only the AUX ports exposed.

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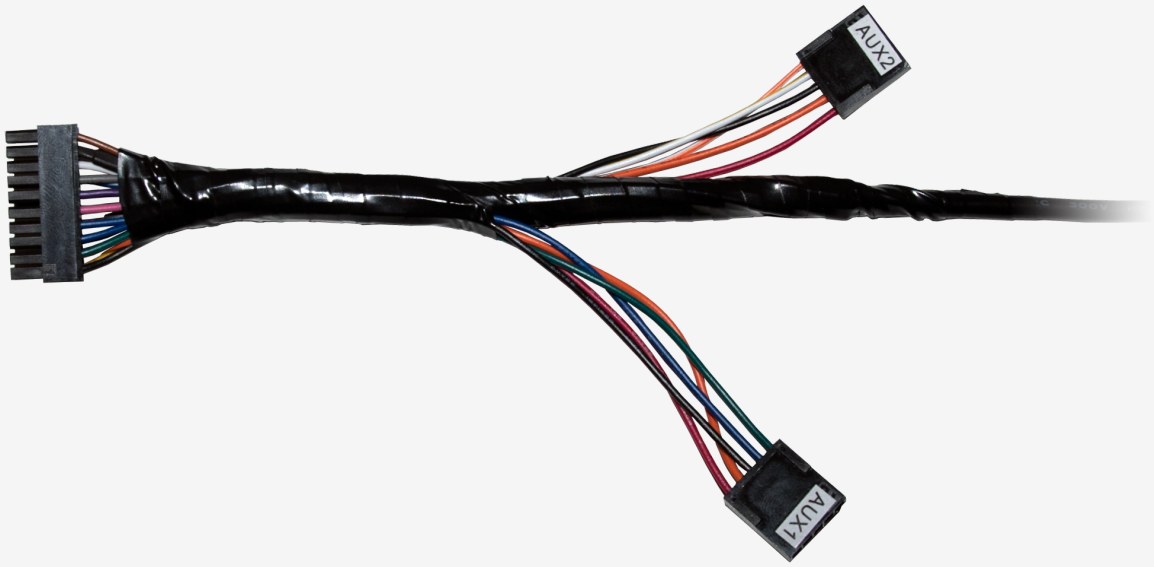
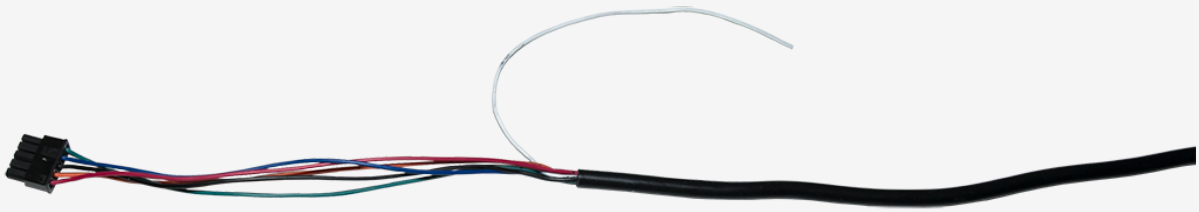
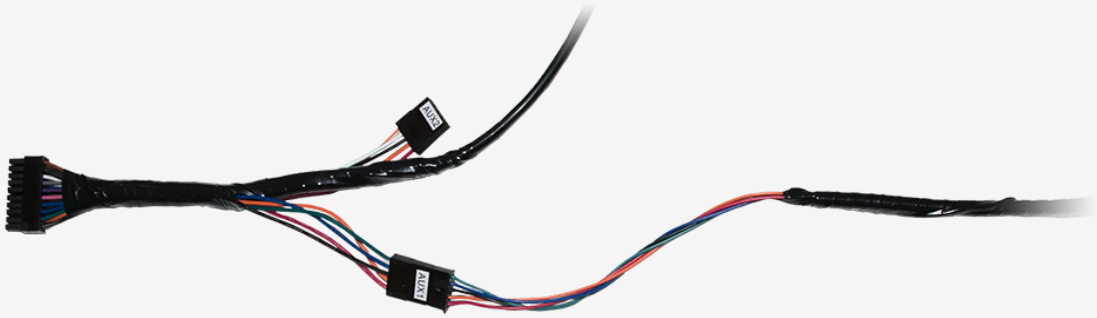


2. Tape off the black and fused red wire. Leave only the fused white wire exposed.

3. Tape off and secure the vPOD white wire.



4. Connect the vPOD’s 5-pin connector to the AUX 1 connector on the 20-pin harness.



7. Locate ignition source, and connect 20-pin harness white wire.

1. Identify a wire that supplies between 12-24 VDC (+) when the key is in the Ignition On position, but 0 VDC (+) when the key is in the Off or Accessory position.
2. Remove an inch of insulation of the wire using a razor knife and wire strippers.
3. Poke through the exposed wire to create a loop.
4. Strip off about 1.5 inches of insulation from the end of the fused white wire on the 20-pin harness.
5. Twist the ends, and poke it through the loop that you created. Squeeze the loop shut, and wrap the bare wire around the loop at least 3 times. Fold the white wire back over the loop, and then wrap the connection in electrical tape. Use two zip-ties, one directly over the wire-to-wire connection, and one to secure the stress loop about 2.5cm-1 inch away.
6. Snip off the end of the zip-tie, and create a stress loop with the attached wire. Apply a zip-tie to secure the stress loop with the vehicle’s wire, and then strip off the end of the zip-tie.

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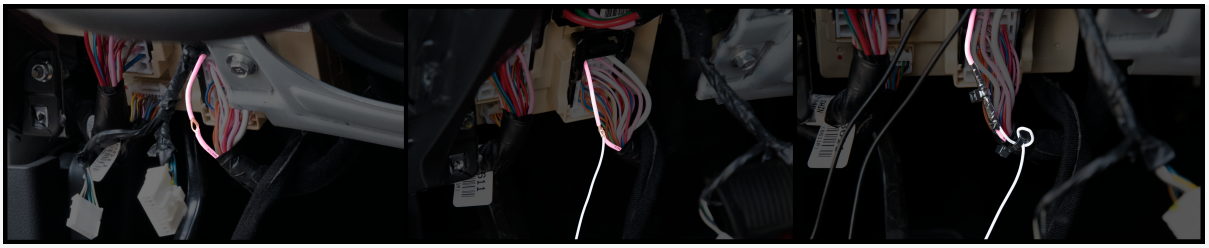

8. Connect the antenna cables to the device.

Connect both antenna cables to the device. Make sure these connections are finger-tight; do not over-tighten and damage the cable.

9. Connect the harness and mount the device.

1. Connect the 3900 harness to the GPS device.

2. Place the unit in the area in which you will eventually secure it. The recommended mounting location is high within the dashboard, white sticker facing up, just behind the dash cluster, as close to the dashboard plastic as possible.

10. Connect the vPOD to the bypass cable.

1. With the vehicle ignition off and the keys removed from the igntion, connect the vPOD to the bypass cable.
2. Upon successful connection, observe the GPS and Cellular lights on the device. Both lights will begin to blink slowly as the device powers on and will begin to blink faster as it searches for signal. A solid amber light indicates that it has received a cellular lock, and a solid green light indicates it has acquired a GPS lock.

If the installation is taking place in an area with limited view of the sky, the device may not reach full signal until the vehicle has been driven outside of that location.

11. Verify installation, and tamper-proof remaining connections.

1. Do not start the vehicle.
2. To activate and register your device, with your vehicle card in hand, call or use the Responsible Fleet Verification App via smart phone (iOS | Android).
3. After the installation has been verified, apply tamper seal compound to all connections.

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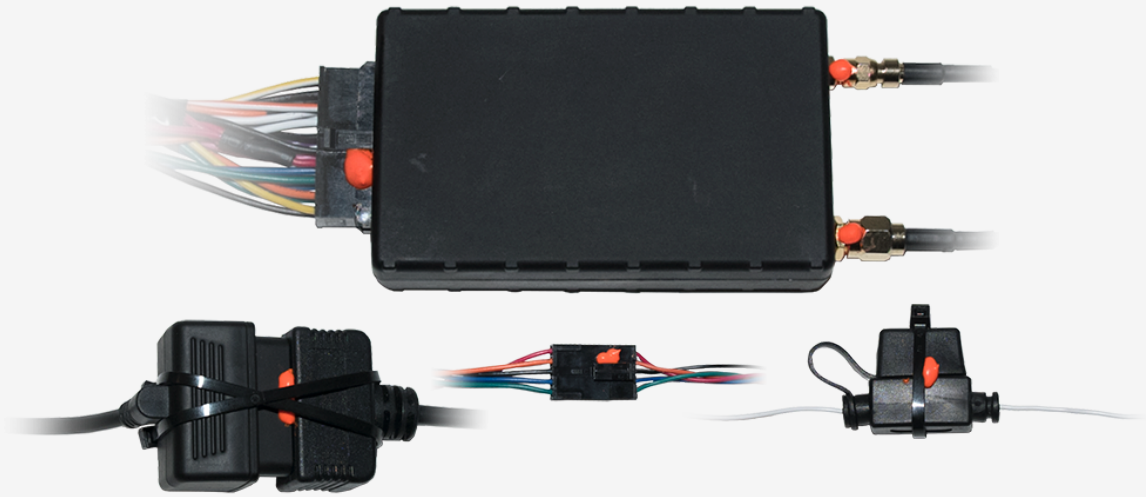

4. Zip-tie the unit into place, and then coil and zip-tie any excess wires to the vehicle’s existing wiring.
5. Reassemble the vehicle’s dashboard, and then give the registration card to your GPS administrator.

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