OVMSv3 Hardware Installation Overview



Open Vehicle Monitoring System





OVMSv3.3 - Hardware Installation

- ♦ Installing in a LEAF? Don't forget to PRE-ORDER and have a Cabin Air Filter on hand!!
- Use Split Wire Loom wrap to avoid sharp edges and corners to protect wire insulation
- Use Zip Ties to secure components and excess wires to avoid noise and vibrations
- Plastic Trim Removal Tools come in handy (Harbor Freight), and a Rag or Cloth to avoid scratches to plastic trim parts

OVMSv3.3 - Words of Caution

- ♦ Do NOT plug in / turn on the OVMS device WITHOUT first connecting the antennas (especially the cellular module antenna) to the device, otherwise damage to the 4G modem board could occur!
- ♦ Ensure your internal antenna connections are also made correctly before applying power or plugging in the OVMS module



Warning!

Prior to connecting the OVMS module to the vehicle, or computer via USB, if you have the GSM cellular option we recommend you connect a GSM antenna. GSM systems are designed to always operate with an antenna, and powering on one without could damage the equipment.

OVMSv3.3 – All the Tools

- ♦ Mid-size Phillips screwdriver (#2)
- ♦ Plastic Automotive Trim Tool (or similar substitute)
- ♦ Side-cutter / Diagonal Cutting Snips (for trimming long zip-tie ends)
- Flashlight / Work Light / Wearable Headlight
- ♦ Tips coming from experience:
 - ♦ Gardener's Knee pads (x2) One for your knees and one for your ribs! (or an old towel folded or rolled up will work too for the ribs)
 - Some sort of small sealable container for all of the screws (and one nut) you'll be removing so that you can find everything again later when you're done with the job

OVMSv3.3 - Installation Overview Steps

- Wrap the GPS, GSM and OBD2 cables with split loom (can be done at any point prior to install)
- Remove driver's side foot well cover (2 screws and a nut, 2 clips)
- Replace OEM OBD2 port with splitter cable and connect OVMS OBD2 connectors, secure the splitter with zip ties
- Empty and Remove the glove box assembly, optionally removing the glove box door from hinges to reduce weight
- Optional: Remove the passenger side end/door cap (beside the glove box) for visibility mildly difficult to re-install
- Remove the passenger lower foot well cover (bottom side of glove box)
- * Remove glove box assembly completely (10 screws) Recommended: Change the LEAF cabin air filter
- * Feed the loom-wrapped OVMS vehicle specific OBD2 cable behind and through the console against the firewall
- ♦ Mount and attach both GSM and GPS antennas, route the OBD2 DB-9 thru the console to the passenger side
- ♦ Route and secure the GSM & GPS antenna cables using Zip Ties, connect them <u>before</u> attaching the OBD2 DB-9
- Secure the OVMS module, connect the optional USB Micro cable, GSM & GPS, then OBD2 DB-9 connector LAST
- ♦ Check connectivity to the car via Home WiFi/Cellular/Local OVMS WiFi
- ♦ Zip tie and secure any extra wire lengths and the OBD2 splitter on the driver's side
- Trim any Zip Tie ends, re-mount panels and glove box, re-attaching/replacing everything that was removed