How to Install an iUPS in a Vehicle
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Installing an iUPS battery in a vehicle

This document describes how to install the iUPS (intelligent UPS) battery in your vehicle. The iUPS battery supplies power for the 4RE to continue recording for about six minutes if your vehicle battery is disconnected.

**Important!** WatchGuard, Inc. recommends that you **not** install the iUPS in an upside-down position. See page 5

If you are performing a new 4RE installation, follow the install instructions for the 4RE along with these instructions.
Installing the iUPS power source

The iUPS is usually installed in the trunk or behind the back seat. The iUPS connects to both the 4RE and the car battery.

**Note:** If you use an auto shut-off timer device for installation, set the auto shut-off timer to the maximum-selectable delay time. This ensures the iUPS battery is not discharged when the auto shut-off timer disconnects the car battery.

Flow for wiring

Shown here is the wiring flow for the iUPS, 4RE, and vehicle battery.
iUPS housing

Shown here are the iUPS housing, the power cord plugged into the iUPS, the bypass cap, and the display screen for Voltage power found under Diagnostics on the 4RE screen.

**Important!** The housing shows which end should **not** be up when installed.

Plug with bypass

![iUPS housing and plug with bypass](image)

<table>
<thead>
<tr>
<th>Volages</th>
<th></th>
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<tbody>
<tr>
<td>Current</td>
<td></td>
</tr>
<tr>
<td>Supply</td>
<td>12.50 volts</td>
</tr>
<tr>
<td>Clock Battery</td>
<td>01.06 volts</td>
</tr>
<tr>
<td>Historical</td>
<td></td>
</tr>
<tr>
<td>Min Clock Battery</td>
<td>00.05 volts</td>
</tr>
<tr>
<td>Max Clock Battery</td>
<td>02.93 volts</td>
</tr>
<tr>
<td>Min Supply</td>
<td>12.30 volts</td>
</tr>
<tr>
<td>Max Supply</td>
<td>12.70 volts</td>
</tr>
</tbody>
</table>
If your iUPS battery power falls below 10%, you can unplug the power cord from the iUPS and cap it with the bypass. This bypasses the iUPS and powers the 4RE from the vehicle battery. The power level shows Good.

**Wiring**

Shown here is the wiring for the iUPS, car battery, and the 4RE, with close-ups of both cables. The 4RE cable can have additional wires in it that won’t be used with iUPS.
How to install an iUPS

You need all of the parts shown on the previous two pages, plus the install kit (WGP02073-300-KIT) if you are doing a new installation of 4RE. For best results, keep the operating temperature range for the iUPS between -40° F (-40° C) and 140° F (60° C).

1. Install the iUPS.
   
   The trunk is the most common install location. The iUPS housing measures:
   
   - 6.32 inches wide (including the mounting brackets on each side)
   - 2.09 inches high
   - 4.44 inches deep
2. Plug the power cable into the iUPS.
3. Connect the iUPS power cable to the 4RE DVR:
   a. Connect the red wire in the iUPS cable to the red wire from the 4RE cable.
      Twist the red wires around each other and cap with a butt.splice cap.
   b. Cap the two wires with a butt.splice cap.
4. Twist the drain wire (silver) around the black wire in the 4RE cable.
5. Twist the drain wire around the black wire in the iUPS cable.
6. Connect both black wires with drain wires, to the vehicle battery with a butt.splice connector.
7. Wrap any exposed drain wires with electrical tape.
8. Connect the red wire in the iUPS cable, with a butt.splice connector, to the fuse cable assembly
   (WGPS84-102) that goes to the vehicle battery.