

Installation & Initial Rideout Checklist

Before installation, see the Seeker & Seeker Setup Operation Manuals to configure the Seeker and the “Green Engineering” Mobile Communications Adapter (MCA).

Installation Checklist

First, use the included **Seeker & Seeker GPS “Green Engineering” Installation Guide** to perform the installation or the Seeker & Seeker GPS system. Then, use the following checklist to verify the proper installation of the Seeker & Seeker GPS system.

Completed	Installation Guide	Description
<input type="checkbox"/>	Step 1	Install the “Green Engineering” Seeker Mobile Mount and “Green Engineering” Mobile Communications Adapter (MCA) in your vehicle. <ul style="list-style-type: none"> • Install the “Green Engineering” Seeker Mobile Mount securely in a location where the driver will be able to see the Seeker display. • Install the “Green Engineering” MCA securely in a location that prevents damage to the MCA, data cable, or GPS serial cable.
<input type="checkbox"/>	Step 2	Wire the DC power cables to the vehicle battery and an ignition-switched power source, and then connect them to the back of the “Green Engineering” Seeker Mobile Mount. The DC power cable should be wired as follows: <ul style="list-style-type: none"> • Red wire MUST be wired to the positive (+) battery terminal. • White wire MUST be wired to an ignition-switched power source in order to allow the “Green Engineering” MCA to determine when the vehicle is turned OFF. • Both black wires should be wired to ground or the negative (-) battery terminal.
<input type="checkbox"/>	Step 3	Connect the “Green Engineering” Seeker Mobile Mount antenna connection to the vehicle antenna connection. Note that the Seeker’s rubber duck antenna does not operate when placed in the “Green Engineering” Seeker Mobile Mount.
<input type="checkbox"/>	Step 4	Connect the “Green Engineering” Seeker Mobile Mount to the “Green Engineering” MCA using the serial data cable.

For Additional Help Contact
 Trilithic Applications Engineering
 1-800-344-2412 or 317-895-3600
support@trilithic.com or
www.trilithic.com

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Completed	Installation Guide	Description
<input type="checkbox"/>	Step 5	Connect the GPS receiver to the “Green Engineering” MCA. <ul style="list-style-type: none"> • For serial (RS-232) GPS receivers, connect the GPS receiver directly to the “Green Engineering” MCA. • Take care when connecting and the disconnecting the GPS serial cable from the “Green Engineering” MCA in order to prevent damage between the wire and the end connector. • Remove the screw and cable clamp on the top of the “Green Engineering” MCA. Place the cable clamp around the wire and use the screw to fasten the cable clamp to the “Green Engineering” MCA as shown. • Mount the GPS receiver in a location that has a line of sight to the GPS satellites and will enable a reliable GPS location fix.
<input type="checkbox"/>	Step 6	If you have a Wi-Fi enabled “Green Engineering” MCA, connect the Wi-Fi antenna to the “Green Engineering” MCA. Mount the antenna in a location that will enable communication with the Wi-Fi access point.

Be sure to carefully place and securely fasten the DC power, data, antenna connection, and GPS serial data cables into the vehicle to prevent any vibration or stress that may damage the connection between the wires and their connectors as well as the “Green Engineering” MCA.

Once you have completed installation checklist, proceed to the following page for the Initial Rideout Checklist.

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Initial Rideout Checklist

Use the following checklist to verify the proper field operation of the Seeker & Seeker GPS system.

Completed	Description
<input type="checkbox"/>	Place the Seeker in the "Green Engineering" Seeker Mobile Mount.
<input type="checkbox"/>	With the vehicle off, test the power supply from the vehicle to the "Green Engineering" MCA, "Green Engineering" Seeker Mobile Mount, and Seeker. Power up the Seeker and verify the display shows the battery charge symbol (lightning bolt).
<input type="checkbox"/>	Test the communication between the Seeker and the "Green Engineering" Seeker Mobile Mount. Start the vehicle and power up the Seeker and verify the display shows "CA 0."
<input type="checkbox"/>	<p>Verify that the "Green Engineering" MCA has a GPS connection by looking at the upper left portion of the display.</p> <ul style="list-style-type: none"> • If the display is flashing "GPS", the GPS receiver is connected to the "Green Engineering" MCA, but does not have a GPS satellite fix. • If the display shows a solid "GPS", the GPS Receiver is connected to the "Green Engineering" MCA and has obtained a GPS satellite fix. • If the GPS receiver has not acquired a GPS Satellite fix within five minutes the Seeker will beep.
<input type="checkbox"/>	Start your initial leakage drive out by going to your calibrated leak and then comparing the value shown on the Seeker display versus the calibrated leak level. The leakage value shown on the Seeker display should match the calibrated leak level.
<input type="checkbox"/>	<p>Go to a location that could not possibly have leaks and see what the leakage level is on the Seeker display. The leakage value should read nothing on the display.</p> <ul style="list-style-type: none"> • If the display shows a leak, shut the vehicle off to see if the leakage level reading goes away. • If the leakage level goes away, you may have vehicle electrical problems, i.e. alternator noise, ignition, DC motor noise, etc.
<input type="checkbox"/>	<p>If you are driving all day and the Seeker is always picking up two or more micro volts per meter ($\mu\text{V}/\text{m}$), there is a problem.</p> <ul style="list-style-type: none"> • This would indicate that some of the leaks are real and others are noise. • The Seeker should show no level on the display at times and it is not natural to always see leaks. • If this happens, you will need to determine the source of noise within your vehicle. Otherwise, when you upload your leakage data to the Leakage Analysis Workshop (LAW), it may take much longer to refine the leakage data to remove the spurious results within the real leakage data.

Once you have completed this checklist, your Seeker & Seeker GPS system is ready to use.

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