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Auxiliary Lighting Kit

part number 157

Installation Instructions

All specifications are subject to change without notice.

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Read the instructions before installing the kit components, and wire the towed vehicle according to the instructions and illustrations. Failure to understand how to install this product could result in an electrical malfunction or other collateral or consequential damage.



Installation Instructions

1. Inspect the taillight assemblies and nearby areas of the towed vehicle. Determine a location best suited for mounting the LED strips. The strips may be mounted horizontally or vertically.

The chosen location should ideally:

- Allow easy entry of the wiring harness through an existing body seam or trim panel.
- Provide visibility to the lighting strip from both the side and rear, if possible. The flexible nature of the LED light strip allows it to curve around the body of the vehicle, ensuring good visibility from both the rear and side.
- Be free of obstruction from any accessories (such as a bike rack, hitch tray, etc.).
- Allow both sides to be installed symmetrically. They should be mirror images.

2. Clean the mounting location to assure proper adhesion of the light strip. Remove the adhesive backer and carefully mount the LED strips in the chosen location. Use light pressure so that you can lift and reposition, if necessary. The

strip is flexible. Use care to make certain that the light strip is mounted straight. Once properly positioned, press firmly on the LED strip for maximum adhesion (Figure 1).

3. Run the wires from the LED strips behind or under the bumper, if needed, so they hang freely.

4. Reference the schematic/parts explosion on the last page of these instructions. Then, working on the driver's side only, connect the three wires from the LED strip and the three wires from the main harness labelled 'Driver Side' to the three-wire junction block as shown in the schematic.

IMPORTANT! Make certain to match the wire colors as shown in the schematic.

Once you are certain where the junction block will be located, clean the surface and then peel the backer and adhere the block to the desired area. To further secure the block, use the included zip ties and/or zip tie mounts to secure the LED harness and main wiring harness on either side of the junction block as shown in Figure 2.



Figure 1

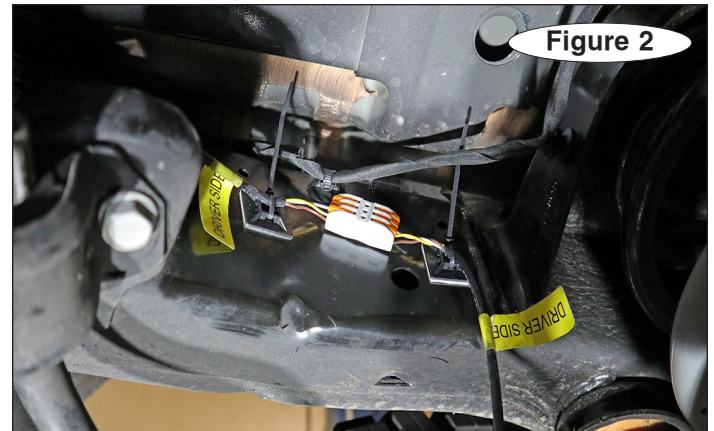


Figure 2

5. Repeat step 4 for the passenger side LED strip and the harness labelled 'Passenger Side.'

6. Choose a path and run the LED wiring harness to the front of the vehicle near the mounting location of the electrical socket.

Note: Roadmaster recommends routing the harness along the frame on the side OPPOSITE of the exhaust pipe.



WARNING

Plan a route that will avoid moving parts, sharp edges, the fuel lines or hot components such as the engine or exhaust system.

Wiring exposed by moving parts, sharp edges or hot components may cause a short circuit, which can result in damage to the vehicle's electrical system as well as other, consequential damage.

Wiring which is attached in close proximity to the fuel lines may ignite the fuel.

Connect the short four-way flat pigtail to the back of the socket, according to the socket's wiring code. If the umbilical cord between the RV and dinghy is a molded four-way flat harness, you can instead plug the LED's harness directly into the umbilical cord. The short four-way flat pigtail is intended as an easy connection to a four-, six- or seven-way electrical socket.

7. Coil up any extra harness and use the included zip ties to secure it in a location protected from moving parts, sharp edges, heat, etc. This is a 'service loop' that can be used if extra harness is needed or for reinstallation on another vehicle. Plug the main harness into the short four-way pigtail (or directly to a four-way flat umbilical cord).

8. The installation of the LED lighting kit is complete; however, this wiring method does NOT ground the towed car to the RV. Therefore, if you have any other accessories powered from the RV (such as a supplemental braking system), they may not function or may only function intermittently until you run a ground wire from the back of the electrical socket to the frame of the dinghy. Most electrical issues arise due to a poor or faulty ground. It is always a good idea to run a ground wire to the frame of the dinghy should anyone install an accessory at a later date.



WARNING

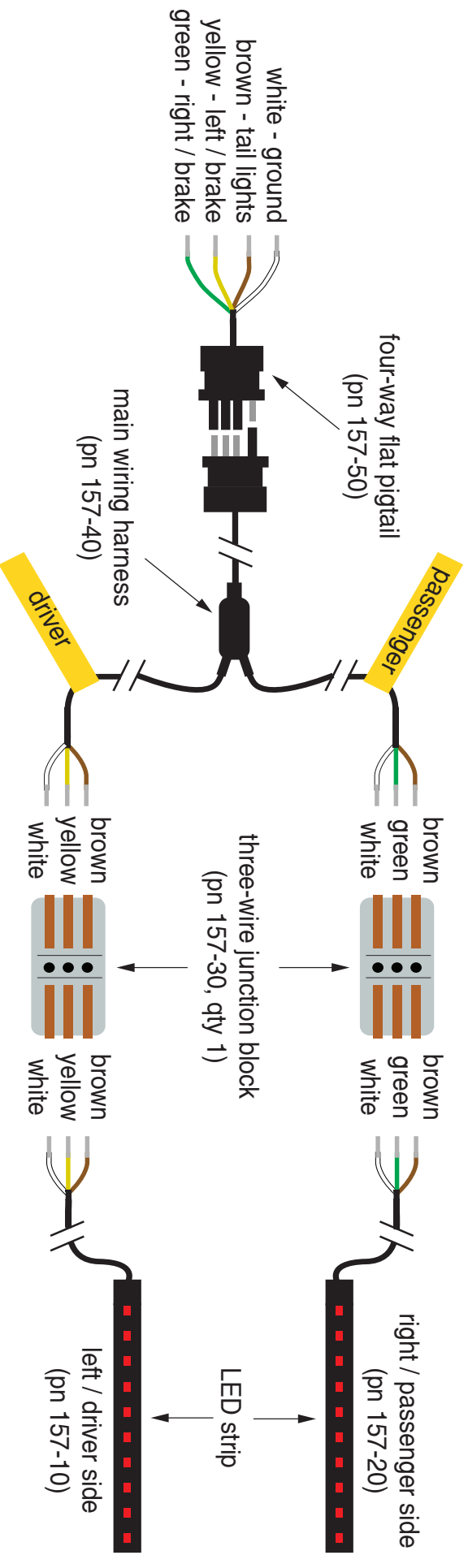
This kit does NOT ground the vehicle. Supplemental braking systems and other accessories will require the RV ground wire to be connected to a dinghy ground in order to function.

Installer Tip: The LED light strips are intended for a permanent mount. But, similar to a nameplate badge, they can be removed by using a heat gun to warm and melt the adhesive. Once removed, the LED strips will not properly adhere. You can either replace the LED strip, which comes with new adhesive. Or, order the heavy duty 3M double-sided tape from Roadmaster. See the wiring schematic on the last page of these instructions for the applicable part numbers.



Wiring Schematic and Parts Explosion

(for Auxiliary Lighting Kit pn 157)



*3/8" x 1" wide 3M tape for junction block (pn 300176-00)

*3/8" x 10" wide 3M tape for LED strip (pn 300175-00)

*not pictured