

LitePLATE™

Installation Document

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The intent of this document is to aid in the electrical connection of the LitePLATE to get both license plate light and the red 3rd brake lights wired into the JK as easily as possible. The electrical connections will be made inside the body, at the right rear corner. This area has a bundle of harnesses that feed the taillight, tailgate, and subwoofer and all 3 of the LitePLATE connections may be made in this area

This document shows the installation with a Full Metal Fab “The Solution Plate” license plate relocation kit.

If you are mounting your LitePLATE to a swing out tire carrier or an area other than on the tailgate, simply route the wire into the right rear corner and pass it thru the grommit for the factory taillight wiring. This will get your connections in the same area.

Parts in kit:

- LitePLATE™ License plate light
- 3 solder seal connectors

Tools needed to install will vary by application, minimum tools needed:

- Wire cutter
- Wire Stripper
- Heat gun (High heat hair dryer may work)
- Utility knife or other sharp knife

Additional supplies possibly required:

- Electrical tape



Installation

1. Mount the LitePLATE to your bracket and route the wire to the interior of the right rear corner of the Jeep. If you are mounting it to the tailgate, follow the next couple of steps to see how to get the wiring thru the tailgate and into the Jeep. If you are routing the wiring differently, skip to the wiring part of the document.
2. Mount license plate and LitePLATE™ using ¼” fasteners. (Not included with the LitePLATE™ kit).
3. Next, open the tailgate. We’re going to remove the plastic tailgate wire guard and rotate the subwoofer to gain access to the wiring on top of the fender, near the roll bar.

You don’t need to remove the subwoofer completely, remove the lower 2 torx head bolts (T30), lift the seat belt trim off of the top where it enters the subwoofer enclosure, and then snap open the cover that wraps around the roll bar and rotate the rear edge of the subwoofer towards the middle of the Jeep. This will gain you access to the harness in the right rear corner.

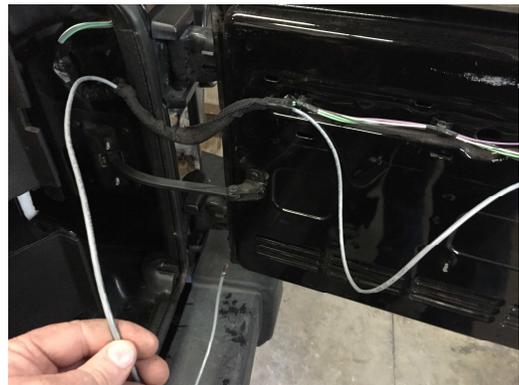


The plastic tailgate guard along the tailgate is removed by lifting gently along the bottom edge. The spring clips (5 of them) will release and the cover rotates with the bottom coming away from the tailgate, the top stays clipped in until the bottom is fully released.

You will notice the wiring running along the tailgate and thru a cloth sleeve. If you make a small hole in the cloth at the body side you can then run the LitePLATE wire thru the sleeve and up to the harness area, for a nice clean look.



4. Route the LitePLATE wire into the tailgate thru the hole to the right of the vents on the rear tailgate face. On the inside of the tailgate, its best to have the wire exit thru a hole that is behind the harness, towards the tailgate hinge from where the wire enters the tailgate. Using a stiff wire, you should be able pass thru these 2 holes, tape the leading edge of the LitePLATE wire to it, and pull it thru the tailgate. With the lead wire still attached to the LitePLATE wire, push thru the cloth sleeve and find the exit hole (if you choose to run it thru the sleeve) and pull the harness all the way thru the sleeve. This should leave you with plenty of wire to connect to the harness near the roll bar.



5. To do the wiring, pull the carpeting around the roll bar forward and fold it out of the way. Once done, you will see a bundle of wires in a single harness, and near the right taillight area, it will break out into 2 or 3 harnesses. One harness bundle goes toward the rubber grommet and passes down to the taillight. Another harness goes to that cloth sleeve and runs toward the tailgate and remaining harness will run to the subwoofer (If equipped). To connect the LitePLATE, you will use 2 connections in the taillight harness, and 1 wire in the tailgate harness.



6. Locate the black wire in the harness that goes to the taillight, and make a connection here where convenient. You will be making 2 more splices, one more in this taillight harness, and one in the tailgate harness. We recommend you stagger the locations, don't make the connections side by side, as this will reduce any chance of the wires shorting to each other. We recommend a stripper that will open the insulation, and not break the wire. Then using a pick or sharp object, pass this thru the wire strands and leave an opening thru it. Then take the LitePLATE black wire, strip appx 1-1 1/2" of insulation off the end, pass the wire thru the hole in the Jeep wire. Then wrap the LitePLATE wire around the pieced wire until the full length is used. We recommend to solder this joint to get the best possible connection, but with the wire wrapped tightly and the low current draw of the LitePLATE, simply wrapping the splice with electrical tape should provide years of service.

