

LitePLATE™

Installation Document for Wrangler JL

Off Road Only

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Parts in kit:

- LitePLATE™ License plate light
(Electric connectors shown in image not needed in this kit)

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

- Wire cutter
- Wire Stripper
- Torx bits
- Utility knife or other sharp knife



Additional supplies possibly required:

- Electrical tape

This document will define the connection of the LitePLATE wiring to the Jeep. The harnesses that you will connect to are under the subwoofer enclosure in the rear of the Jeep and at the taillight itself.

If your mounting the LitePLATE to the tailgate, as in a Motobilt license plate relocation kit, then you will likely run the wiring from the tailgate into the subwoofer enclosure area, and you will need to run the taillight wire thru a grommet into the taillight ware for the taillight wire connection.

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 into the taillight area, and then the 3rd brake light wire will pass thru the grommet into the subwoofer enclosure to make that connection.

To do this, we need to get access to the harnesses, under the subwoofer enclosure.

Disassembly of subwoofer enclosure

1. Start by gaining access to the subwoofer enclosure, Remove the floor mat, the hinged floor compartment cover and anything else loose that may be in the way.



2. With a trim tool or screwdriver, gently flip open the covers to the hold downs.



3. Once open, use a Torx bit to loosen and remove the hold downs on the subwoofer side only.

4. Remove right side floor panel and set it off to the side. At this time, also remove the little tool tray from the rear edge, between the tailgate and the underdeck compartment. Set it off to the side as well.



5. Remove the rubber seal from the vertical and right side along the lower edge, just slide it away from the subwoofer panel so it can be reinstalled after the subwoofer goes back in.



6. Reach forward of the subwoofer, at the lower area where it mates to the floor, reach around the plastic enclosure housing and grab the edge, and with a quick jerk, pop the subwoofer from its resting place. Just a quick, short jerk, only move an inch or two, just enough to snap the snap connectors loose.

DON'T pull to hard or too far, the plastic ring around the seatbelt needs to come off, and its easiest to pop the subwoofer free and then remove the ring, see the next step to remove the ring.



7. With a trim tool or a screwdriver, lift the forward edge of the seat belt trim ring, to unclip it from both the subwoofer enclosure as well as the enclosure that stays between the roll bar and the window. With the subwoofer popped free as in step 6 above, simply grab with your fingers and lift the tabs free.

The ring will stay in place over the seatbelt, make sure it is above the plastic when reassembling. Use a piece of tape to hold it above the opening if necessary.



8. Once the ring is disconnected, you should be able to wiggle the subwoofer enclosure free and turn the rear edge towards the driver side. It should pivot at the forward edge of the enclosure and stay as shown in this image.

Now, you can see the wire harness that comes from the tailgate below the tailgate stop. This harness will have the only wire in it that will operate the 3rd brake light properly. This is a white wire with dark green trace (a dark green line on it)



9. On top of the plastic panel that has a small cover, this small cover gets access to the 1 retaining bolt for the tail light. Gently lift the cover, there is a small opening on the window side that you can use a small screw driver to release the tab then lift this cover out of the way.

Remove this 10MM head plastic bolt to unlock the taillight from its mounting location, once loose, remove the bolt from the hole. To remove the taillight, gently grip the housing and tug rearward, there is a couple of clips that will release and the taillight will come free in your hands.



10. With the taillight removed, you can see the harness inside of the opening.

With the 3rd brake light harness ONLY on the inside of the body, and the taillight harness the easiest to connect at the taillight, you will need to pass a wire or two thru this area.

Easiest way to do this, take a sharp small screwdriver and push a small slit into the large rubber grommet where the harness goes thru the body. Pass the wires thru the grommet and connect as necessary.



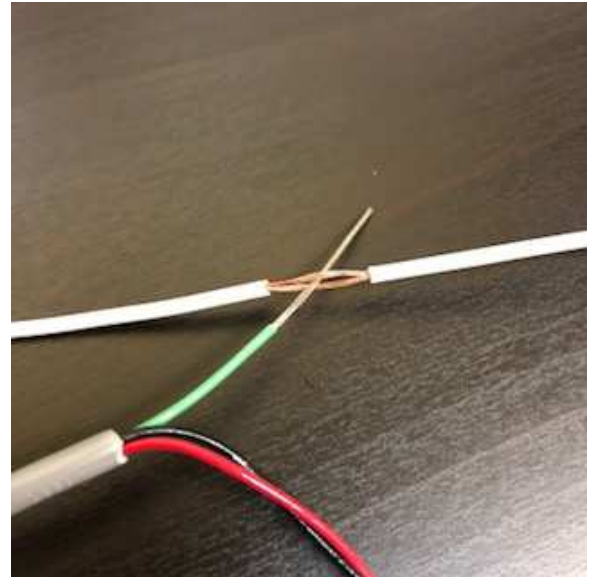
11. To connect to the taillight circuit for the license plate light, the easiest way is at the taillight electrical connector.

On the Jeep side harness of this connector, you will find a White wire with orange trace.

This is the signal for the tail light and this is the spot to tie into the green wire of the license plate light. Simply unwrap a bit of the harness covering, isolate the white wire with orange trace, and then make the connection to the LitePLATE.



12. We recommend a simple method used in car audio installation. Strip appx 1/2" length of insulation from the white with orange trace wire, then with a sharp object, pierce the wire to create an opening. Then take the LitePLATE green wire, strip approximately 1" of insulation and then pass this wire thru the orange wire opening. Then simply twist the wire back to itself, and then around the connection. This provides a great, reliable connection, to make it a perfect connection, place a drop of solder on it. Wrap in electrical tape when complete.



Before you do this, make sure you allow for enough LitePLATE wire to make the connection here and back inside for the 3rd brake light. If need be, remove 10-12" of the grey jacketing to allow for this.

The Black LitePLATE wire may be connected to the black wire in the taillight connector as well. This is the ground circuit, make the same type of connection.

13. Inside the Jeep, follow the harness from the tailgate area, and somewhere under the subwoofer enclosure area, closer to the grommet for the taillight wire, use a sharp knife and carefully open the outer jacketing on the tailgate harness. Locate the white with dark green trace wire and perform the same splice as shown above.



With that, the electrical part of the installation is complete. There may be other steps to complete depending on what you are installing and other options that may go with that.

Reassembly is in reverse of disassemble. Notice the pins on the side of the tub where the subwoofer enclosure is retained, pay attention to those as you locate the subwoofer enclosure, and once you are confident it is in the correct spot, gently pop the sockets over the pins and it will be retained. Again, make sure the seat belt ring is ABOVE the enclosure, or it will get trapped below.

Wiring color code:

On the LitePLATE™, the wiring is as follows:

Tail / License plate light ----- Green
 Brake ----- Red
 Ground ----- Black

The JL wiring harness as found in the passenger side corner inside the Jeep and taillight area

- A. Green -----White with dark green (Taillight area)
- B. Red ----- White with orange trace (Tailgate bundle)
- C. Black -----Black (Tailgate bundle)

Off Road Only recommends **“Lights On for Safety”** while the vehicles are in motion.

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