

## BMW 2002 LED Tail Light Installation – Square Tail Light

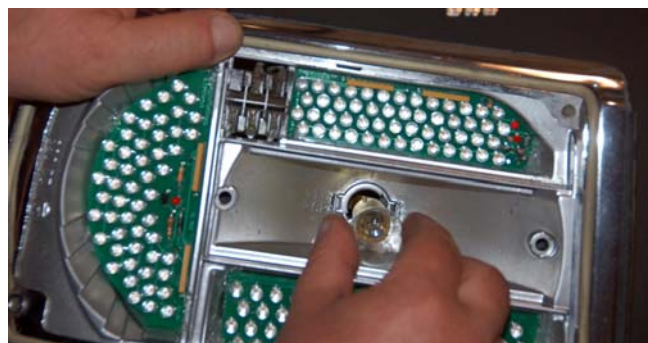
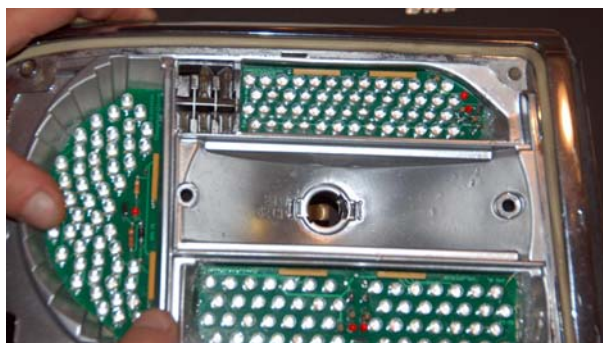


The entire fixture needs to be removed from the car. This is accomplished by first disconnecting the battery to prevent accidental short circuits when working with the tail light wiring harness. Remove the rear light cover by unscrewing the white knurled knobs, and then carefully remove the electrical connector. This may be difficult at first, but keep working the connector side-to-side and it will come loose. Finally, the fixture itself needs to be removed using an 8mm nut driver or socket wrench to remove the four 8mm nuts securing it to the body of the car.

Once the fixture is out of the car remove the incandescent bulbs from the Running, Brake and Turn Signal sockets of the fixture. The LED array is set in place by inserting its white connector through the old incandescent socket in the back of the light fixture. Next, in order to avoid abrasion to the LED wires, a piece of nylon tubing (supplied with the kit) is inserted over the brass contact for the base of the bulb.



The circuit boards are secured to the fixture using RTV silicone or a Hot Glue Gun which is preferred because of its fast setting time. Just a 'tack' on all 4 corners is all that is needed, of course a glue or epoxy may also be used but this makes removing the array in the future more difficult.



Once all the arrays are tacked in place and the wires run through the back, you need to install the incandescent bulb for the Reverse light in the middle socket (if you removed it beforehand)

Take the supplied interface plug with the matching white connectors and plug each connector into its matching connector. The 3 wire connectors can plug into either connector.

Finally, plug the Reverse light (yellow) and Ground (black) pigtails from the interface plug to the connectors on the fixture as shown.

Take the fixture and re-insert it into the car body securing it by using the four 8mm nuts you previously took off.

Now plug the interface plug into the electrical connector and set the connector into the hollow on the rear of the fixture between the Brake and Turn signals. Replace the rear cover, insert the lens from the outside of the fixture and secure it with the white knurled knobs taking care that the wiring harness is inserted into the cutout on the bottom of the fixture. Don't over tighten the white knurled knobs or you risk cracking the lens, just tighten enough to seat the lens on the foam gasket to make the fixture weather-proof. Repeat for the other side. Reconnect the car battery and test the operation of the lights.

**Congratulations, your BMW 2002 LED conversion is now complete!**

