



## Smoked Rear Reflector with LEDs for Mazda 3 Installation Instructions

This installation guide specifically focuses on the hatchback version of the vehicle. Installation on the sedan will be similar.

Tools required:

- Socket wrench with 10mm socket and 8-inch extension
- Philips-head screwdriver
- Flat-head screwdriver
- Supplies for tapping into four (4) to eight (8) 22mm wires (depending on desired operation)

1) Remove covers on both sides of hatch. (below)

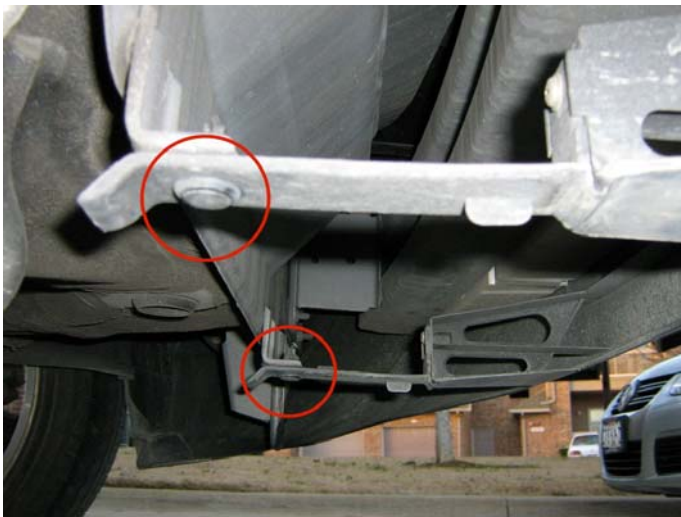


2) Use a 10mm socket (with extension) to remove the nuts that secure the rear tail lamps. (right)



- 3) Remove both of the rear tail lamps. This may require a small amount of force as there are plastic ball/socket joints that hold the lamps in place.

Once the lamps are free, disconnect the wiring harnesses from the bulb sockets. (right)



- 4) Use a flat-head screwdriver to remove the large fasteners that secure the rear bumper underneath the car. They are somewhat difficult to remove. (left)

- 5) Use a Phillips-head screwdriver to remove the screws that secure the rear bumper to the fenders. The screws are just above the wheel where the rear bumper meets the fender. (right)



- 6) Use a Phillips-head screwdriver to remove the screws that secure the rear bumper to the wheel well liner. The screws are underneath the car at the very rear of the wheel wells. (left)

- 7) Use a flat-head screwdriver to remove the fasteners, and a Phillips-head screw driver to remove the screws, that secure the rear bumper to the body of the car. They are located where the tail lamps normally sit. (right)



- 8) Once all of the screws and fasteners have been removed, disengage the rear bumper from the rear fender by pulling outward. (left)



- 9) Once each side of the rear bumper is loose, pull towards the rear of the vehicle and the rear bumper will pull away from the car. (right)

- 10) Use a Phillips-head screwdriver to remove the screws that hold the rear-facing reflectors in place. Then, use a flat-head screwdriver to press on the clip in order to pop out the reflectors. (below)



11) Remove the side-facing reflectors by pressing on the clips and popping them out. (right)

12) Route the wires on the new reflectors through the holes where the reflectors clip into place, then put the new reflectors into place and push them into place. (below)

After putting the rear-facing reflectors back into place, secure them using the screws that were previously removed in Step 10.



13) Route the wires from the new reflectors up to the area where the rear tail lamps rest on the rear bumper and secure them with some tape. (left)

14) Put the rear bumper back onto the car, securing it in the same way that it was originally secured.

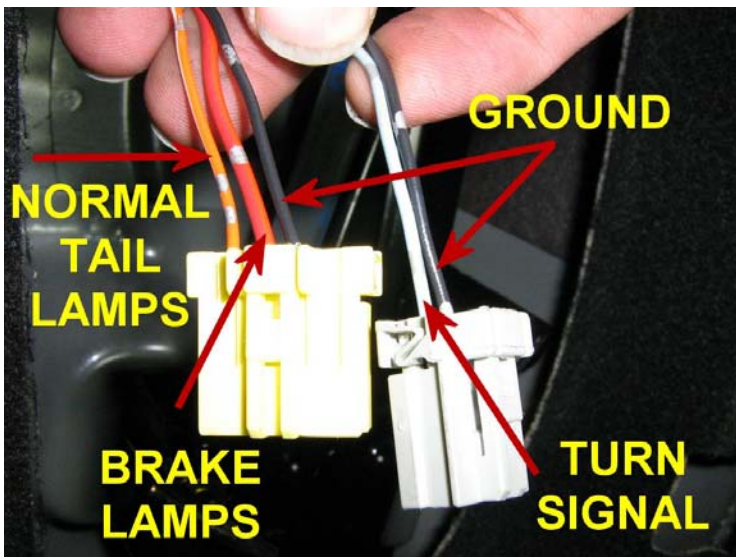
Refer back to steps 4 through 8 to ensure that each of these steps is reversed during the reinstallation of the bumper.

15) Route the wires from the new reflectors through the holes where the tail lamps will be reinstalled. (right)

16) Reinstall the tail lamps.

Once a tail lamp has been properly aligned, you will need to push on the tail lamp to ensure that the plastic ball is properly seated in the socket. (circled in picture on right). You will hear a slight pop when it is properly seated.

17) Use a 10mm socket (with extension) to replace the nuts that secure the rear tail lamps. The nuts were removed in Step 2.



18) Tap into the appropriate wiring harness and connect the reflector wiring, depending on when you would like the reflector LEDs to light.

The black wire leading from the reflector will connect to one of the black wires labeled "Ground" and the red wire leading from the reflector will connect to whichever orange/red/grey wire you choose.

You may connect both reflectors on each side to the same power/ground, or you may connect them to different circuits if

you want the side-facing reflectors to operate differently than the rear-facing reflectors.

19) Clip the tail lamp wiring harnesses back into the sockets on the tail lamp.

20) Tie up the slack in the reflector wire using one of the twist ties that was previously removed.

21) Put the covers that were removed in Step 1 back into place.

You're done!