

# CorkSport Rear Reflector LED

2010 and up Mazdaspeed 3 & Mazda 3



Thank you for purchasing the CorkSport Mazda 3 and Mazdaspeed 3 Rear Reflector LED Light Kit . These premium quality light assemblies include 16 LED lights in each lens and are built for durability and reliability. Precision manufactured to match the OEM factory specifications, the CorkSport LED Rear Bumper Lights are easy to install and offer a perfect fit for your Mazda 3 or Mazdaspeed 3. Please let us know your feedback by submitting a review at: <http://www.corksport.com/corksport-led-rear-bumper-lights.html>

## Pre-Installation Notes:



Make sure your vehicle is on a flat surface.



Installation requires removal of bumper cover to install.



These instructions were written for reference only and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation



**How our instructions work:** To best cover all of our customers experience levels, we have included an overview checklist for the more technically advanced users along with step-by-step instructions for customers that require additional detail.



These installation instructions were written using a 2010 Mazdaspeed 3. Other year Mazdaspeed3 models will be similar.

## Materials and Time:



### General Info.

Part #:  
Time Est: 1-2 hours  
Wrench Rating: 2/5



### Tooling List

Jack Stands  
Floor Jack  
3/8" Drive Ratchet  
10mm Socket  
Philips Screwdriver  
Flat head Screwdriver  
12v Test Light  
Wheel nut socket



### Parts List

One set (left & Right) LED lights  
Wiring Connectors, QTY=6

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## Checklist

This is an overview of each step in the build. You can use this as a reference and a checklist as you button up the work on your car

### 1. Remove Tail Lights


 These instructions are made for all 2010+ Mazdaspeed 3's and Mazda 3's

- 1a) Remove interior access covers, (shown in [Figure 1A, 1B](#))
- 1b) Unplug the two(2) wiring harness plugs from back of each light
- 1c) Remove three(3) 10mm nuts from back of each light
- 1d) Remove tail lights

### 2. Remove Rear Bumper

- 2a) Remove bumper screw covers ([shown in Figures 2A and 2B](#))
- 2b) Remove Phillips head screws under screw covers
- 2c) Remove screws from under tail light ([Figure 2D](#)) and repeat for other side
- 2d) Use floor jack and jackstands to gain access to underside of vehicle
- 2e) Remove rear wheels
- 2f) Remove Phillips head screws in the rear of the wheel well on drivers and passengers side of vehicle
- 2g) Pull back panel and remove remaining Phillips head screw from bumper ([Figure 2F](#))
- 2h) Remove the two (2) 10mm bolts on underside of bumper (shown in [Figure 2G](#))
- 2i) Unplug wiring harness from license plate lights
- 2j) Remove bumper from car

### 3. Install LED Lights

- 3a) Remove factory reflector
  - 3b) Install LED light in factory reflector position
  - 3c) Feed wiring through hole and allow wiring harness to hang from lights
-  For a cleaner look, add the supplied black wire wrap to the wiring as needed. This keeps the wiring together and adds a more factory look.

## Checklist

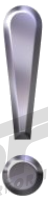
This is an overview of each step in the build. You can use this as a reference and a checklist as you button up the work on your car

### 4. Reinstall Rear Bumper

- 4a) Reinstall rear bumper and all retaining screws

### 5. Wire LED Lights


- 5a) Turn parking lights on then with your test light probe the factory plug coming from the car for the one that has power (positive).
- 5b) Run LED wiring to the factory license plate plug and trim off the extra length of wire from the LED wiring.
- 5c) Connect wires using supplied connectors.



**This completes the installation of your LED Reflector Light Kit. Turn your lights on and check your hazard lights to make sure they are functioning properly. If you experience any issues, recheck all connections to and make sure they are fully secured. Check out our [knowledgebase](#) for additional install information**



## Detailed Instructions

 These instructions are made for all 2010+ MazdaSpeed 3's & Mazda 3's

### 1. Remove Tail lights

a) Remove interior access covers by removing the drivers side jack cover (shown in **Figure 1A**) and the passenger side cover located under the trunk light (shown in **Figure 1B**).


 CorkSport Rear Chassis Brace shown in the photos does not need to be removed if you have one installed



Figure 1A



Figure 1B

b) Unplug the two (2) wiring harness plugs from the back of the tail lights (**Green arrow in Figure 1C**)

c) Remove the three (3) 10mm nuts from the back of the light (**Red circles in Figure 1C**) and repeat for other side.

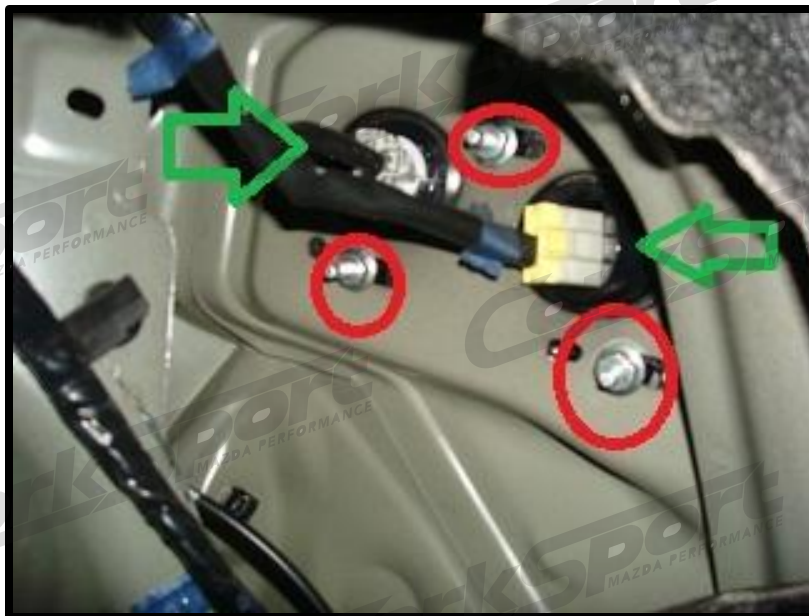


Figure 1C

d) Remove tail lights by pushing out from the inside of the car

## 2. Remove Rear Bumper

- a) Remove screw covers with flat head screw driver (located in the red circled areas shown in Figures 2A and 2B)



Figure 2A



Figure 2B

- b) Remove the Philips head screws (shown in Figure 2C) located under the covers on both sides.

- c) Remove screw (red circle shown in Figure 2D) and push pin (green circle shown in Figure 2D) and repeat for other side




Figure 2C



Figure 2D

- d) Use the floor jack and jackstands to gain access to the underside of the vehicle

 Always refer to the floor jack and jackstand manufacturers instructions as well as the factory owners manual for your vehicle to determine jacking points and support points. Alternately, use an automotive lift to gain access to the underside of the vehicle. Redundant support mechanisms are recommended.

- e) Remove rear wheels

- f) On the drivers side, remove the three (3) Phillips screws located in the rear of the wheel well. Repeat this for the passenger's side. (See Figure 2E on next page)

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## 2. Remove Rear Bumper (continued)

- g) Pull back the panel you just removed the screws from, near the top of the bumper is one more Phillips head screw. Repeat for passenger's side. **Figure 2F**



Figure 2E



Figure 2F

- h) Remove the two (2) 10mm bolts located on the underside of bumper cover (shown in **Figure 2G**)

- i) Unplug wiring harness from license plate lights (shown in **Figure 2H**)



Figure 2G



Figure 2H

- j) To remove the bumper from the car, pull the edges from the wheel well area out from the body of the car to detach the clips. Repeat this on the other side of the vehicle

- It is helpful to have someone remove the other side to avoid possible scratches to the paint on the body of the car
- Pull straight out from the side. Do not pull at an angle or you risk breaking the clips

### 3. Install LED Lights

- a) **Remove the Phillips head screw** holding the factory reflector in (shown in **figure 3A**) and remove reflector . Repeat for other side.
- b) **Install LED light** and feed wiring through the hole from the factory reflector (shown in **Figure 3B**). Reinstall Phillips head screw. Repeat for other side.




Figure 3A



Figure 3B

- c) **Allow the wiring harness to hang** from the lights so you have access to wires when bumper is installed. For a cleaner look, add the supplied black wire wrap to the wires

 For a cleaner look, add the supplied black wire wrap to the wiring as needed. This keeps the wiring together and adds a more factory look.

### 4. Reinstall Rear bumper

- a) **Reinstall bumper** by first attaching sides making sure the tabs line up and snap in correctly. Install all retaining screws that were removed. You can basically follow step 2 in reverse order.

### 5. Wire LED Lights

- a) **Turn your parking lights on**, then with your test light probe the license plate plug (shown in **Figure 2H**) coming from the car. The one that lights up is the positive lead, the other is the negative lead.
- b) **Run both sets of LED wiring to the factory license plate plug**. Trim off the extra length of wire from the LED wiring.

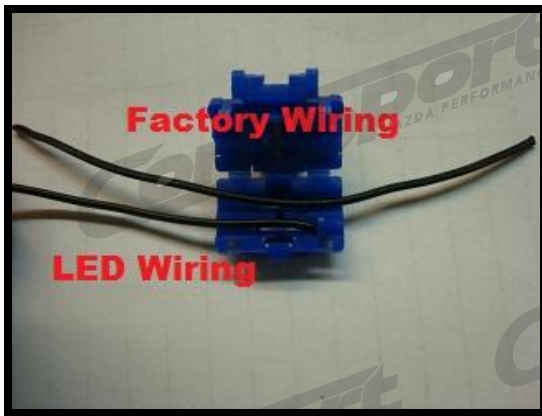
## 5. Wire LED Lights (continued)

- c) **With the supplied wiring connectors** connect the positive wire (from step 5a) to both red wires of the LED harness. Repeat this for the negative wire and the black wire from the LED harness.

Feed factory harness through the slot next to the hinge of the connector then the wire from the LED in the other. Do not strip the cover from the wires. Compress the connector with pliers until it clicks.



The white wire can be used to connect the lights as a blinker. This step is not covered in these instructions. This will involve drilling a hole from behind the bumper cover into the trunk to feed the wires in to connect to the brake and blinker harness behind the tail light.



**This completes the installation of your LED Reflector Light Kit. Turn your lights on and check your hazard lights to make sure they are functioning properly. If you experience any issues, recheck all connections to and make sure they are fully secured.**

**Check out our [knowledgebase](#) for additional install information**

## What's Next:

### [CorkSport DRL Light Kit](#)

An alternative to HID's, these LED lights are designed for use in your factory fog light housings and output a color temp in the 6,000k range that is perfect for matching existing or future HID headlights. The kit includes 2 bulbs, each with 23 LED's and requires no tools for plug and play installation. These lights last longer than the factory incandescent bulbs and draw less power.

