



Ziza® Interior Lighting Package Installation Procedures



Part Number **ES2215063**
for BMW E90

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Ziza Interior Lighting Package Installation

ES2215063



Fits BMW E90

LED Installation Instructions

Interior Lighting Kit for BMW E90
ES2215063



Ziza
performance automotive lighting

Tools

Trim removal tool – ES517779 (Kit)
T20 Torx® Driver

Kit Contents

36mm white LED festoon (qty 1)
42mm white LED festoon (qty 3)
8-chip wedge base white LED (qty 10)

This tutorial explains how to install the LEDs in your Ziza Interior Lighting Kit.



Make the job easier and prevent damage to headliners and other interior trim with **ECS Tuning Trim and Molding Removal Tool Sets: [ES2500877](#) and [ES517779](#).**

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What are LEDs?

LEDs are Light Emitting Diodes, solid state devices that emit light when connected to electrical current. They have no moving parts or wire filaments to burn out. They emit a whiter light, run cooler, and last longer than the incandescent (filament style bulbs) we are replacing in this tutorial.

Unlike filament bulbs, LEDs are polarity sensitive. They have plus and minus (positive and negative) electrical terminals that must match the polarity of the applied voltage. Installing the bulbs “backwards” in the light bulb sockets (with reversed polarity) will not harm them, but they will not light. Flipping the bulb 180 degrees in the electrical connector cures this problem.

Bulb Types

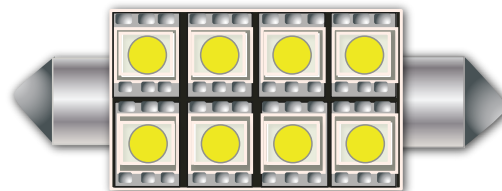
This kit includes two bulb types, classified by their general shape.

FESTOON - Conventional incandescent **festoon** bulbs have a shape and general appearance that is similar to a glass fuse.

Metal caps attached to both ends of a glass tube are sealed to the tube and attached to the bulb filament. End caps mount the bulb in its holder and also conduct electrical current.

LED festoon lights have the same pointed end caps, but are attached to a bank of LEDs instead of a filament tube.

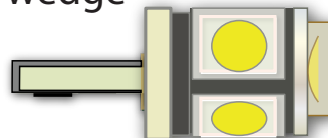
festoon



WEDGE - Wedge style bulbs get their name from the shape of the bulb base. The tapered end of the bulb “wedges” into the bulb socket.

LED wedge lights fit the bulb socket like a filament bulb, but are commonly polarity sensitive.

wedge



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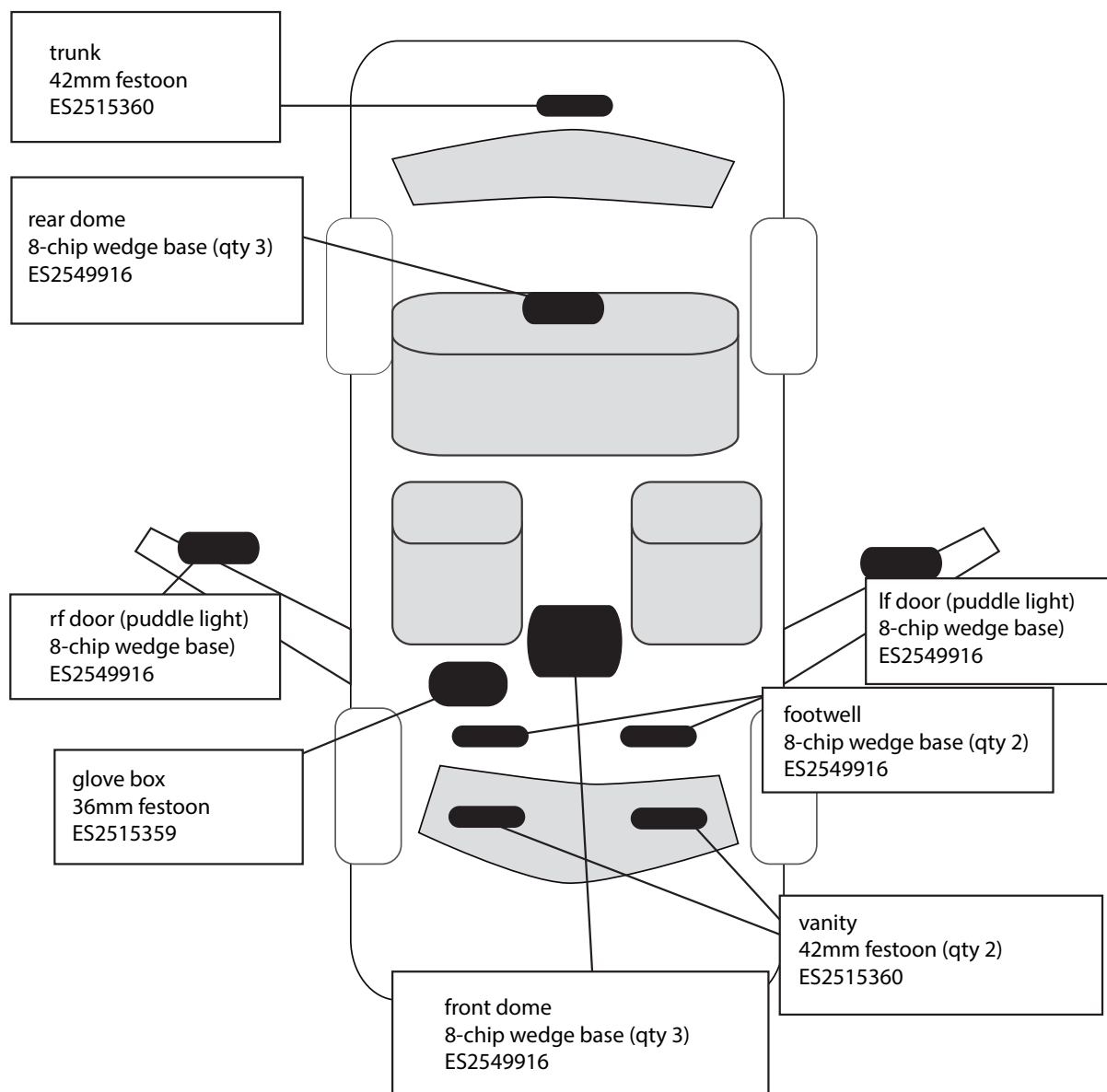
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Ziza Interior Lighting Kit Locations - 4-Door Applications

Make BMW
Model E90 M3
Kit Part Number ES2215063



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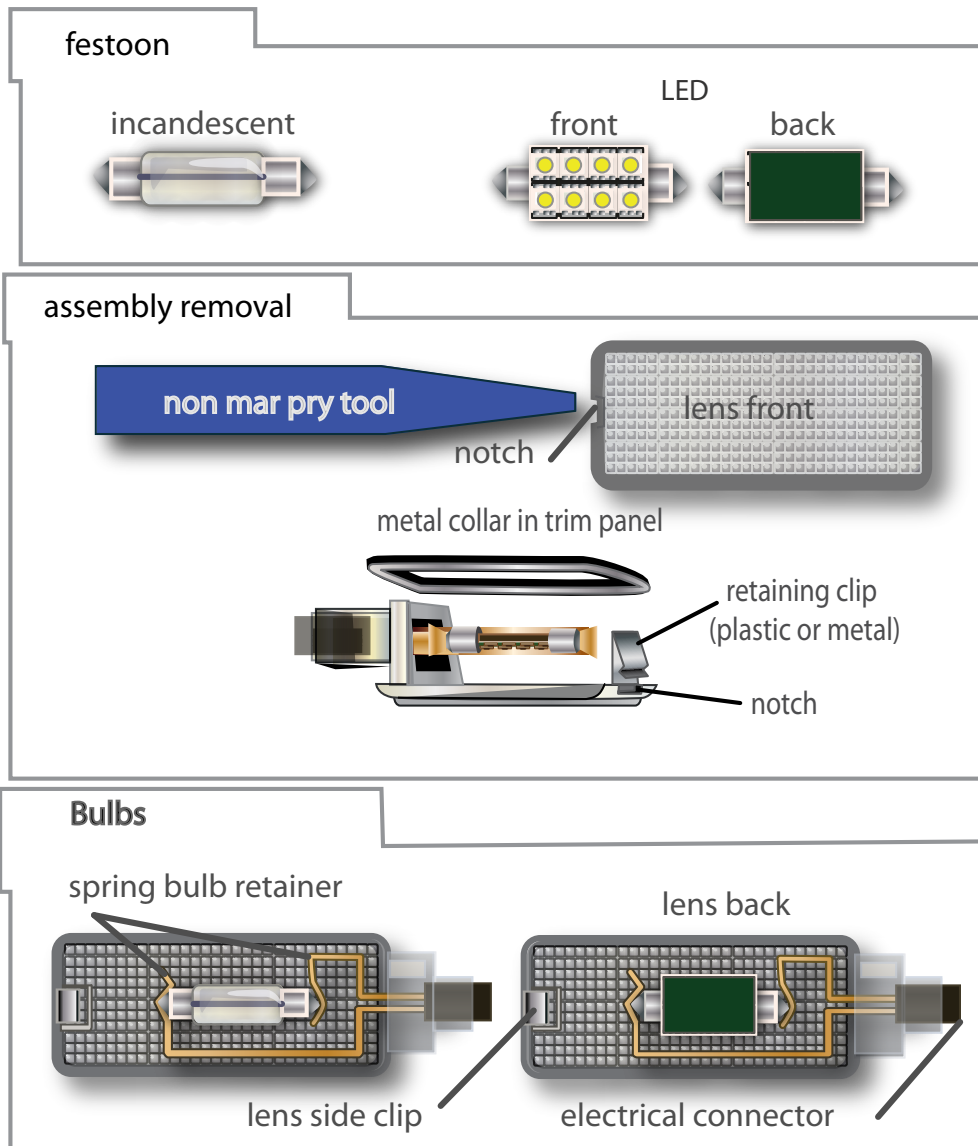
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General Tips

- When prying down on the assemblies to remove them, pry on the notched end of the lens. Insert the narrow tool tip **between** the lens plastic and any metal collar used to reinforce the lens mounting hole. Push in on the retaining clip first to compress and release it. Then pry down.
- The spring bulb retainer is also the circuit conductor. If necessary, gently bend the metal retainer so it holds the bulb tight. This will help prevent intermittent or flickering LED operation caused by a loose connection.
- Install the bulbs with the LEDs facing toward the lens.



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Front Dome and Vanity LED Installation



Front Dome - Step 1

The front dome light console is secured in the headliner by plastic tabs at the rear and by a pair of metal spring clips at the front. The metal clips snap against the edge of the headliner to hold the console in place.

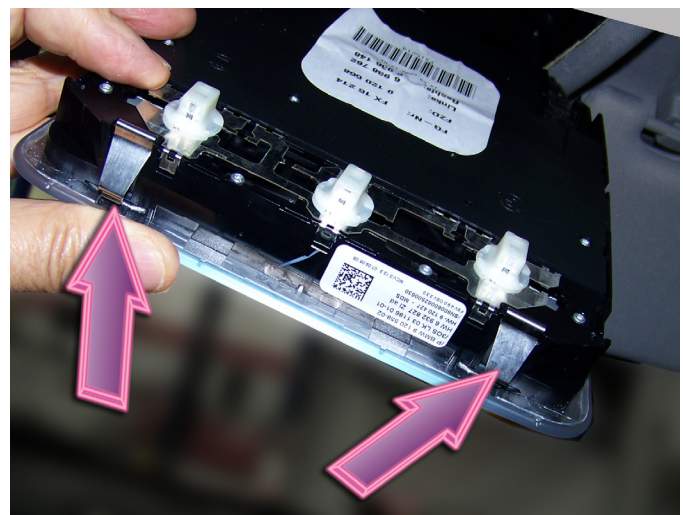


Front Dome - Step 2

To give you a better idea what the metal spring clips look like, and where they are located, here is a shot of the console after it has been removed.

The spring clips (arrows) must be compressed to release the console.

To access the clips, we will drop the headliner down.



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Front Dome - Step 3

Lower both sun visors, and pull them off to the side, out of your way.

Using a T20 Torx® driver, unscrew and remove the sun visor attachment clips.



Front Dome - Step 4

Gently lower the front edge of the headliner, and reach up between the headliner and the roof of the car; push against the metal console clips to release them, and drop the console down.

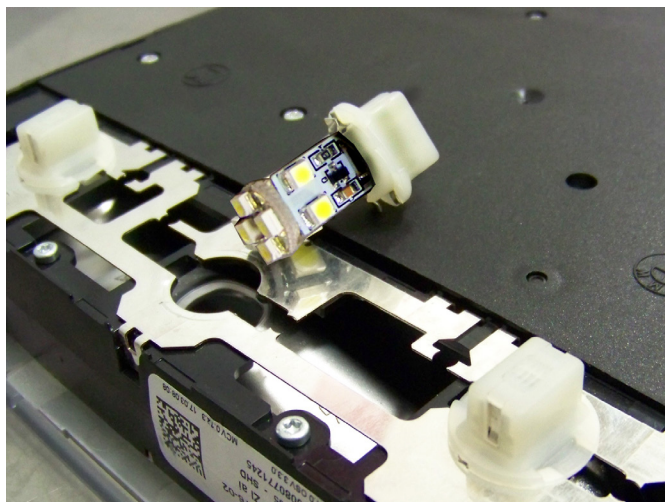


Front Dome - Step 5

Twist and pull the three bulb holders to remove them from their sockets in the console panel.

Remove the original bulbs and insert a new 8-chip LED in each holder.

These are polarity sensitive. If they do not work when tested, remove and rotate the bulb holders 180 degrees.



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Front Dome - Step 6

Insert the rear of the console into the headliner as shown and tip the front upward until the clips snap in place.

Replace the sun visor clips.



Vanity Mirror Lights - Step 1

Using your fingertips or a non-marring trim removal tool, pry down on the light assembly as shown to release it from the headliner.



Vanity Mirror Lights - Step 2

Remove the original filament festoon bulb and insert a new 42mm festoon LED array in its place.

Install it with the LED chips facing the lens.

The LEDs are polarity sensitive. If the chip array does not light when first installed, flip it end-for-end, and retest.

Snap the assembly back into the headliner and repeat the process at the other vanity light.



Rear Dome LED Installation



Rear Dome - Step 1

Place your thumbs against the back edge of the rear dome light console and push toward the front of the car. This compresses the spring clips that retain the console in the headliner.

(Our photo shows the clips.)

Drop the front of the console down.

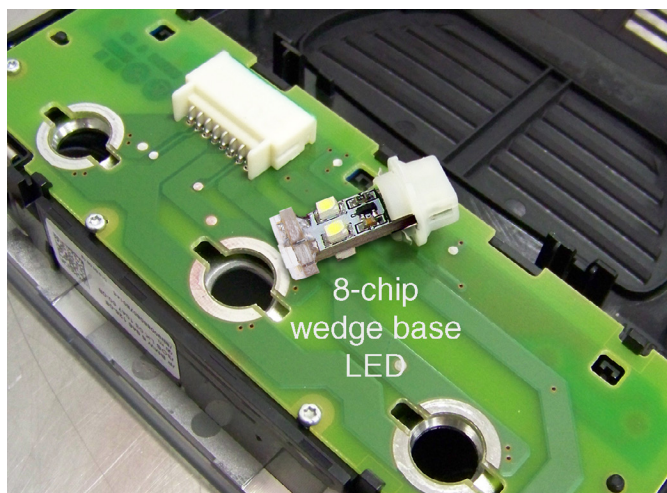


Rear Dome - Step 2

Use the same procedures used on the front dome light; replace the three original bulbs with 8-chip LEDs.

Test the LEDs. If one or more do not work initially, remove and rotate them 180 degrees to reverse their polarity.

Snap the console back into the headliner when all LEDs are working.



Glove Box Footwell Puddle Trunk

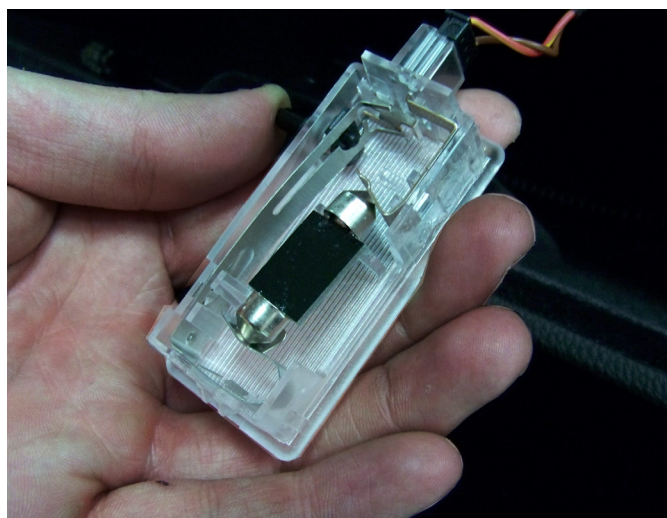


Glove Box

Using a trim removal tool, pry down the glove box light assembly. Pry on the side of the light assembly away from the light control switch rod; pivot the light downward.

Insert a new festoon LED in the bulb holder. Test operation and flip end-for-end if the bulb does not work initially.

Reinstall the light assembly.



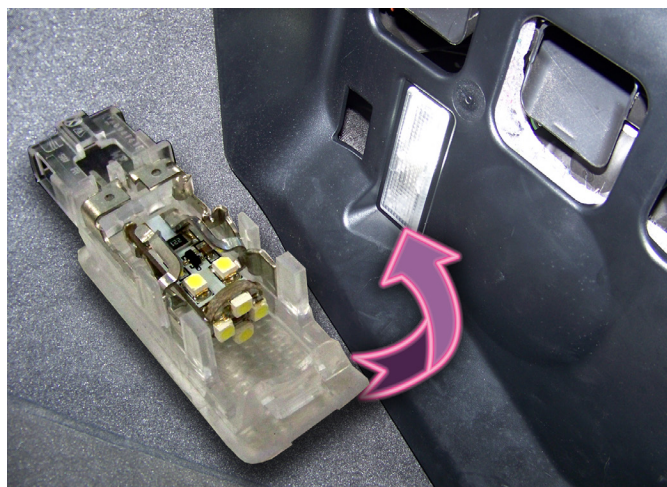
Footwell

Using a trim removal tool, pry down a footwell light assembly.

Insert a new 8-chip wedge base LED into the bulb holder. Test operation and flip the LED over if the bulb does not work initially.

Reinstall the light assembly.

Repeat the process at the other footwell light.



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Puddle Lamps - Step 1

Pry down on the notched end of the puddle lamp assemblies in the door bottoms.



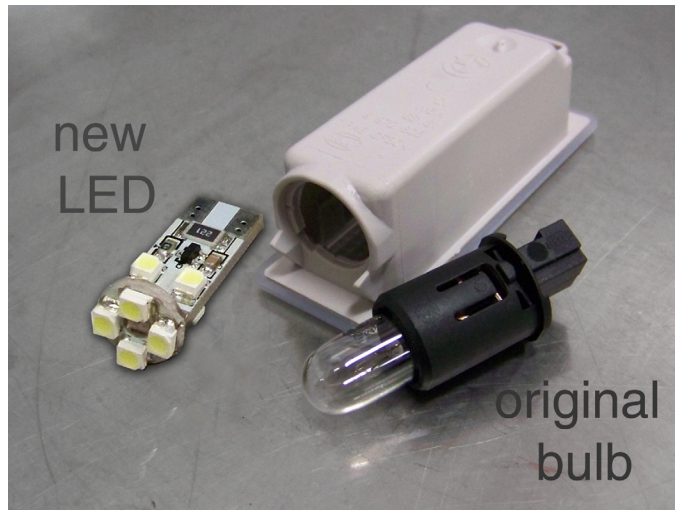
Puddle Lamps - Step 2

Twist and pull to remove the puddle lamp bulb holder from the light assembly.

Replace the original bulb with a 8-chip wedge style LED. Test the LED and flip it over to reverse the polarity if it does not work initially.

Insert the LED/bulb holder into the light assembly and twist to lock it in place.

Snap the light back into the door bottom. Repeat the process at the opposite door.



Trunk Lamp - Step 1

Pry down on the notched end of the trunk light assembly.

The rear of the assembly is covered by a metal heat shield. Pry off the shield to expose the bulb beneath it.

Remove the original bulb.



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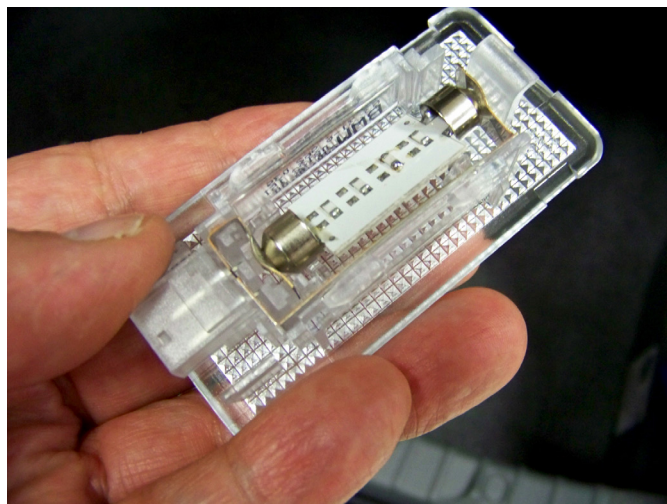
Fits BMW E90

Trunk Lamp - Step 2

Install a new 42mm festoon in the bulb holder, with the LED chips facing toward the lens.

Test LED operation. Flip the LED end-for-end in the bulb holder if it does not light initially.

Replace the metal shield and snap the light assembly back in place in the trunk.



ES2500877



ES517779

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This concludes the installation of the Ziza Interior Light Kit.