

Illuminated Doors sills for the Toyota Tundra

PI001

Revision A

Installation Level II

Page 1 of 11



Purpose	To provide instructions for the illuminated doors sill installation for the Toyota Tundra.
Scope	This procedure applies to installation of the Toyota Tundra illuminated doors sill.









Table of Contents

Safety	1
Visual Icons	1
Consumables and Equipment List	2
Procedure Detail	3
1. Removal of Original Door Sills	3
2. Placement of New Door Sill & Wire Routing	4
3. Determine Wire Connection	8

Safety

- Care must be taken when handling the sharp items listed below such as the razor blades, cutters, sharp objects, and soldering irons.

Visual Icons

Symbol	Definition	Description
	Inspect/Verify	 The magnifying glass is used for inspection or verification to take place.
	Work Content	 The hammer is used to identify a process step where building of the product takes place.
	Safety Warning	 The yellow hazard triangle is used to identify process steps that involve potential safety hazards.
	Safety Action	 The red stop sign is used to identify process steps where a safety action must be performed before proceeding with the next operation.

Illuminated Doors sills for the Toyota Tundra

PI001

Revision A

Installation Level II

Page 2 of 11



Consumables and Equipment List



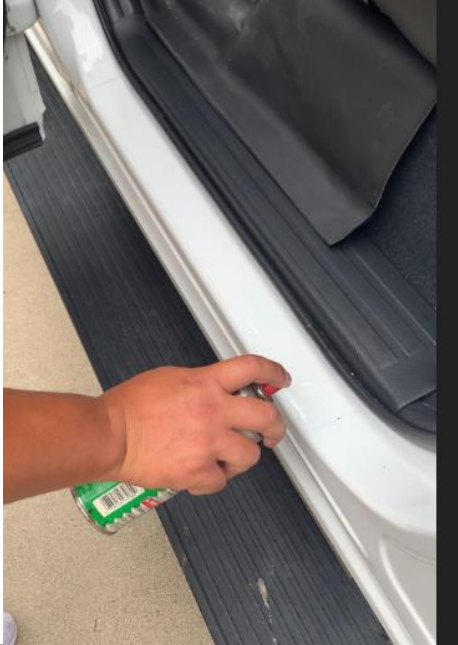


Consumables	Equipment
Alcohol 70%	Heat Gun
Acetone	Pliers
Rags	Wire Cutters
Scrub Pads	Torx 30
Electrical Tape	Solder Iron
WD-40 / Screw Loose	Multimeter
Solder	Crimper
Barrell Connector	Plastic Pry Bar



Procedure Detail

1. Removal of Original Door Sills

Step	Instruction	Visual Aid (for reference only)
1.	<p>↑ Peel off the original door scuff/sills off. (skip to step 3)</p> <p>For aftermarket door scuff/sill. Use heat gun and warm the door sill area to start the removal process of the original door sills</p> <p> Cautions the area may be Hot!</p> <p><i>Tip:</i> Wear gloves or use pliers to peel and remove the original door sill while applying heat on the door sill.</p>	
2.	<p>↑ After removal of the original door sill. Use lubricant spray such as 'WD40' or 'Goo Gone' or any adhesive remover to help break the adhesive.</p>	
3.	<p>↑ Use a paper towel or rags to remove adhesive. For stubborn adhesive a dish washer scratch pad</p>	

Illuminated Doors sills for the Toyota Tundra

PI001

Revision A

Installation Level II

Page 4 of 11



Step	Instruction	Visual Aid (for reference only)
	maybe use help remove the residue.	
4.	<p>This step could be skip.</p> <p>↑ Next, use acetone on a cloth to help remove residual adhesive.</p> <p>***Note do not let pour the the acetone on you paint***</p> <p>🔍 Inspect area for any left over adhesive and repet steps 3 to step 5 until the area is free of adhesive.</p>	
5.	<p>↑ Finally, use a 70% isopropynol alcohol to remove any residue.</p>	

2. Placement of New Door Sill & Wire Routing

Step	Instruction	Visual Aid (for reference only)
1.		N/A

Illuminated Doorsills for the Toyota Tundra





PI001

Revision A

Installation Level II

Page 5 of 11



Step	Instruction	Visual Aid (for reference only)
	<p>Verify location of new door sill and orient the position so that wire is tuck underneath the weather strip of the door. Note:</p> <p> Do not remove door sills protective film until the new location is satisfy.</p>	
2.	<p> Remove ¼ of the film from the back of the door sill.</p>	

Illuminated Doorsills for the Toyota Tundra



PI001

Revision A

Installation Level II

Page 6 of 11



Step	Instruction	Visual Aid (for reference only)
3.	<p>↑ Place the new custom door sill in the position as desired and peel back the film. Press firmly on the door sill to help adhere the double side tape to the door frame.</p>	
4.	<p>↑ Next remove all plastic covers from door frame or sills with plastic pry tools.</p>	

Illuminated Doors sills for the Toyota Tundra



PI001

Revision A

Installation Level II

Page 7 of 11



Step	Instruction	Visual Aid (for reference only)
5.	↑ Once remove, pull the door weather strip up and tuck the custom door sill wires as shown in figure.	 A close-up photograph showing a person's hand wearing a blue nitrile glove. The hand is reaching into the door's weather strip area, tucking several thin wires into a channel. The background shows the interior of the door and some mechanical components.
6.	↑ Place back the door weather strip after the wire is tucked between the weather strip.	 A close-up photograph showing the door weather strip being reattached to the door sill. The weather strip is a black, flexible material with a blue adhesive strip on its inner side. It is being pushed back into its original position, covering the wires that were tucked in the previous step. The door sill and some wiring are visible in the background.

Illuminated Doors sills for the Toyota Tundra

PI001

Revision A

Installation Level II

Page 8 of 11



3. Determine Wire Connection

Step	Instruction	Visual Aid (for reference only)
7.	↑ Find the door trigger located on the door frame. Use a Torx 30 screw driver or bit to remove bolt.	
8.	↑ After removing the bolt, determine which color is the wire.	
9.	↑ Remove wire from the door cavity and open the wire lumen to expose wire.	

Illuminated Doors sills for the Toyota Tundra

PI001

Revision A

Installation Level II

Page 9 of 11



Step	Instruction	Visual Aid (for reference only)
10	↑ Probe with a multimeter with the negative lead from the door trigger to the color of wire in the Lumen.	
11	For Example: The Toyota Tundra are negative trigger which means the black wire (negative) will be connected to this door trigger wire color.	
12	↑ Use a multimeter to determine the constant positive +12volts.	

Illuminated Doors sills for the Toyota Tundra



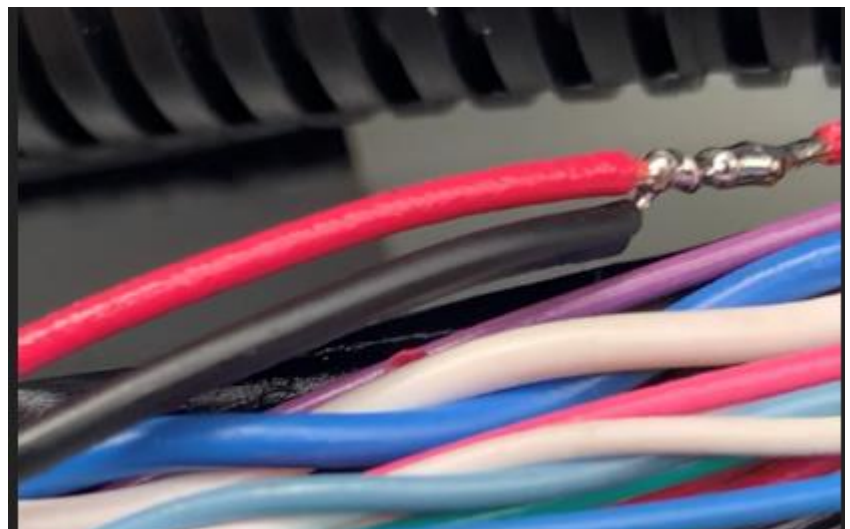
PI001

Revision A

Installation Level II

Page 10 of 11



Step	Instruction	Visual Aid (for reference only)
13	<p>↑ Splice the and make the connection with the wires Positive (red) to constant power (+12V) and Negative (black) to door trigger. Solder connection if possible or use a Butt Connector and splice and crimp the connection.</p> <p> ***Do no connect reverse the polarity of the black and red wire with the door trigger and constant 12 volts. ***</p>	 
14	<p>↑ Screw in/Tighten the door trigger and bolt with the Torx30.</p>	

Illuminated Doors sills for the Toyota Tundra

PI001

Revision A

Installation Level II

Page 11 of 11



Step	Instruction	Visual Aid (for reference only)
15	<p>↑ Repeat all steps for all 4 doors.</p> <p>Note: for Toyota Tundra rear passenger does not have a constant +12Vdc supply. This wire will need to be routed from the front passenger seat to the rear passenger seat wire lumen.</p> <p>The passenger side center panel will need to remove to route wire. Or use a metal wire to help fish the wire through the hole opening.</p>	
16	<p>↑ Test the ON and OFF LED but depressing the door trigger and releasing the door trigger.</p>	
17	<p>↑ Make sure insulated all wire splice with electrical tape or liquid tape to prevent any shorting of electrical connection. Put back the wire bundle as original and then place back on the door sills/trim once completed.</p>	

Keys things needed to perform the installs:

Equipment and Tools

Cautious: Handle all equipment careful as they may lead to potential burn and cuts.

Professional Installation is highly recommended.

Tips: Use gloves and plier to hold the door sills during removal as the area gets hot.