

Illuminated Doors sills for the Lexus GX460

PI005

Revision A

Installation Level II

Page 1 of 12



Purpose	To provide instructions for the illuminated doors sill installation for the Lexus GX460
Scope	This procedure applies to installation of the Lexus GX460 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 for Lexus GX460.....	3
2. OEM Door Sill Trimming for Front Door	4
3. OEM Door Sill Trimming for Rear Door and New Door Sill Bend.....	7
4. Determine Wire Connection	9

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 Lexus GX460

PI005

Revision A

Installation Level II

Page 2 of 12



Consumables and Equipment List

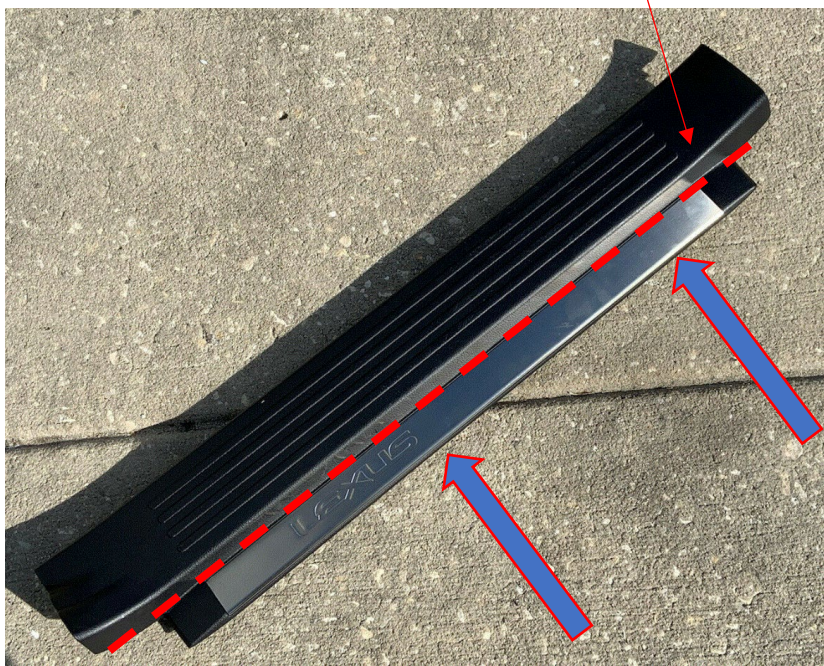




Consumables	Equipment
Alcohol 70%	Heat Gun
Adhesive Removal	Pliers
Rags	Wire Cutters
Scrub Pads	Torx 30
Electrical Tape	Solder Iron
WD-40 / Screw Loose	Multimeter
Solder	Crimper
Barrell Connector	Plastic Pry Bar



Procedure Detail

1. Removal of Original Door Sills for Lexus GX460

Step	Instruction	Visual Aid (for reference only)
1.	<p>↑ Mark off the original door sill for trimming by laying the new door sills on the original door sills before popping/prying off the original door scuff/sills off with plastic pry bar.</p>	
2.	<p>↑ Use plastic pry bar and wedge underneath between the original door scuff plastic and the door trim. Then pop off the door scuff carefully.</p>	
3.	<p>↑ If the surface of the door trim has convex shape or bump from door clips, use a detail hammer to flatten the area.</p>	

Illuminated Doorsills for the Lexus GX460

PI005

Revision A

Installation Level II

Page 4 of 12



Step	Instruction	Visual Aid (for reference only)
4.	↑ Clean off the area after with isopropynol alcohol.	A close-up photograph of a hand holding a white plastic bottle of 70% Alcohol disinfectant. The label is blue and white, with '70% Alcohol' clearly visible. The background is slightly blurred, showing what appears to be a car's interior or a work area.

2. OEM Door Sill Trimming for Front Door

Step	Instruction	Visual Aid (for reference only)
1.	↑ Once the mark area is verified, use masking tape to protect the rest of the area that will not be trimmed off.	A photograph of a black, illuminated door sill trim piece for a Lexus vehicle. The trim piece is shown against a light-colored, textured background. Red dashed lines are drawn along the length of the trim piece, indicating the areas that will be trimmed. The word 'LEXUS' is visible on the trim piece.

Illuminated Doors sills for the Lexus GX460



PI005

Revision A

Installation Level II

Page 5 of 12



Step	Instruction	Visual Aid (for reference only)
2.	↑ Use a precision saw to trim off the original door as marked.	
3.	↑ Test fit placement of the new illuminated door sills to ensure the results are satisfy.	

Illuminated Doorsills for the Lexus GX460



PI005

Revision A

Installation Level II

Page 6 of 12



Step	Instruction	Visual Aid (for reference only)
4.	↑ Remove ¼ of the film from the back of the door sill.	
5.	↑ 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.	

Illuminated Doorsills for the Lexus GX460

PI005

Revision A

Installation Level II

Page 7 of 12



3. OEM Door Sill Trimming for Rear Door and New Door Sill Bend

Step	Instruction	Visual Aid (for reference only)
1.	<p>↑ Once the mark area is verified, use masking tape to protect the rest of the area that will not be trimmed off. Pry the door scuff as stated in Section 1:</p>	
2.	<p>↑ Use a precision saw to trim off the original door as marked. The rear door sills should sit flush as shown in picture.</p>	
3.	<p>↑ To create the rear door sills bend, use heat gun and apply medium heat to the acrylic side of the sills and slowly bend the new door sill to the shape / contour of the rear door.</p>	

Illuminated Doors sills for the Lexus GX460





PI005

Revision A

Installation Level II

Page 8 of 12



Step	Instruction	Visual Aid (for reference only)
4.	<p>↑ Place the heat gun on the floor or workbench. And apply heat to the acrylic side and only on the area of the planned bend portion to avoid delamination of the door sills. Once the sills is warmed, start to bend the shape.</p> <p> ***Do no OVER HEAT the sills and do not HEAT up the LED. ***</p>	
5.	<p>↑ Once the shape is bent to a satisfying result, apply double side tape to the back of the acrylic and use a razer blade to trim the excess edges off.</p>	
6.	<p>↑ Peel back ¼ of the double side tape and position the new door sills on the car door.</p>	

Illuminated Doorsills for the Lexus GX460

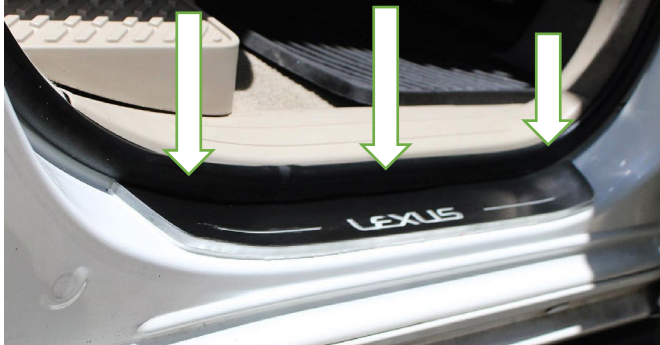
PI005

Revision A



Installation Level II

Page 9 of 12



Step	Instruction	Visual Aid (for reference only)
7.	<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. Determine Wire Connection

Step	Instruction	Visual Aid (for reference only)
1.	<p>***Note: All Toyota & Lexus Door triggers are negative switch***</p> <p>↑ Find the door trigger located on the door frame. Use a socket or a torx bit to remove bolt.</p>	
2.	<p>↑ After removing the bolt, determine which color is the wire and place a multimeter clip on the portion of the switch.</p>	

Illuminated Doors sills for the Lexus GX460





PI005

Revision A

Installation Level II

Page 10 of 12



Step	Instruction	Visual Aid (for reference only)
3.	<p>↑ If you have not done so, remove the panel from the foot area to expose the wire loom and cut the electrical tape to expose the wires. Next, you'll need probe need to probe for the door trigger wire.</p>	
4.	<p>↑ At this step, run the wire underneath the door weather strip.</p> <p> **** DO NOT PULL ON THE WIRE TOO TIGHT, GIVE THE WIRE SOME SLACK TO PREVENT BROKEN WIRE CONNECTION. ***</p>	
5.	<p>↑ Splice and solder black wire of the door sills into the door trigger wire.</p>	

Illuminated Doors sills for the Lexus GX460

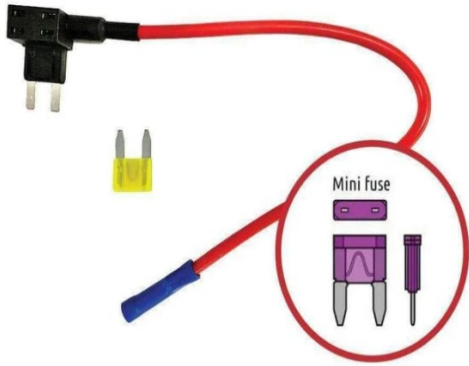
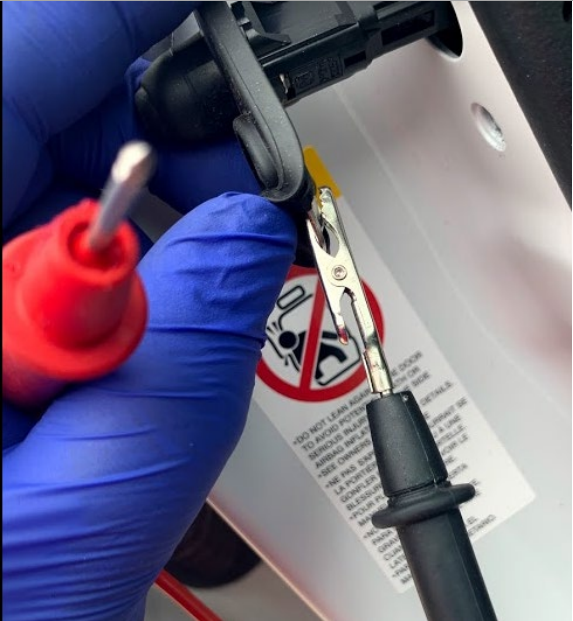


PI005

Revision A

Installation Level II

Page 11 of 12



Step	Instruction	Visual Aid (for reference only)
6.	<p>↑ For all positive +12vdc, run a separate wire 22AWG Minimum size to all 4 door with a line out fuse.</p>	
7.	<p>↑ Example 1: of multimeter probe connected door trigger grounding metal.</p>	
8.	<p>↑ Example 2: 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>	

Illuminated Doors sills for the Lexus GX460



PI005

Revision A

Installation Level II

Page 12 of 12



Step	Instruction	Visual Aid (for reference only)
9.	↑ Test the ON and OFF LED but depressing the door trigger and releasing the door trigger.	
10	↑ 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.	

Professional Installation is highly recommended.