

2023MY Ascent Fog Lamp Port installation Instructions

P/N: H451SXC010



Ensure the VIN matches the work order, the vehicle due date is in the lock period, and verify there are no "Holds" on the vehicle for any reason. Verify the vehicle calls for the accessory installation.



CAUTION: ACCESSORY INSTALLATIONS PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS. Subaru Work Instructions are intended for use by professional accessory installers ONLY. They are written to provide step by step accessory installation instruction for a fast-paced production environment. Properly trained accessory installers have the equipment, tools, safety instructions and know-how to do the job correctly and safely. Included in this information are the use of "special" accessory installation fixtures and templates that are not available to the Retailers or general public. Please refer to the Retailer Installation Instructions found in Subaru Tech Info System (STIS).

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The international standard for excellence in Environmental Management Systems. Please recycle or dispose of automotive products in a manner that is friendly to our environment and in accordance with all local, state and federal laws and regulations.

2023MY Ascent Fog Lamp Port installation Instructions

Inspect the Fog Lamp Kit for damage, defects, or missing items.

PN: H451SXC010

Kit Contents

PART #	PART NAME	QTY
84501CA000	FOG LAMP ASSY F RH	1
84501CA010	FOG LAMP ASSY F LH	1
57731XC14A	COVER FOG F RH	1
57731XC15A	COVER FOG F LH	1
H4510XC510	FOG LAMP SWITCH US	1
82501AG05B	RELAY ASSY	1
902510032	J NUT M6	4
901000171	BOLT FLG 6x21	4
909140063	CLIP 2PIECE D7	2



Do not remove the Fog Lamp "L" or "R" stickers until they are installed.

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Required Tools

- ¼" Drive Torque Wrench
- #2 Phillips screwdriver
- ¼" Drive Ratchet
- 4" ¼" drive extension
- ¼" 10mm socket
- Nylon trim tool
- Scotty Peeler (Optional)
- Clean lint-free towels
- 99% Alcohol
- Torque marker
- Glass cleaner (Optional)
- Masking Tape
- Vehicle Protection



STOP Stop: Damage may occur to the vehicle/part. Do not proceed until process has been complied with.



WHA Work Hazard Analysis (WHA): Operator safety-Use caution to avoid risk of injury.



Caution: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.



Revision Mark/Highlight: This mark highlights a change in installation with respect to the previous issue.



WIT Work Instruction Training (WIT): Key point that designates an important step to ensure the quality of the installation.



Recycle: Item to be recycled.



Safety Torque - This mark indicates that a torque is related to safety

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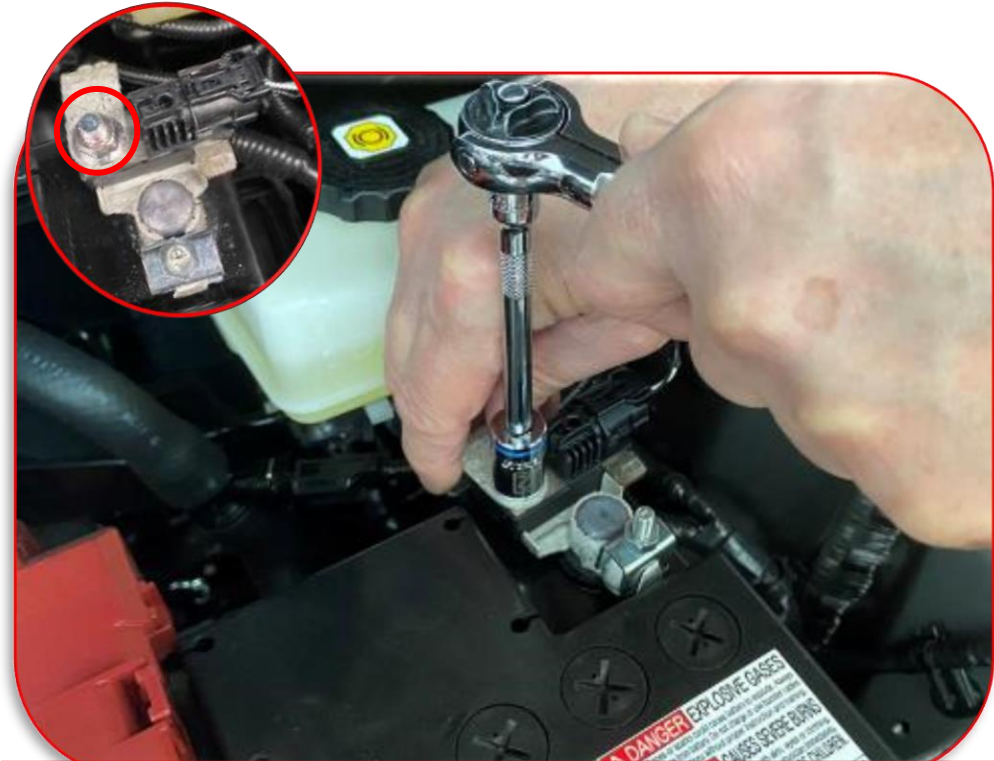
Vehicle Preparation


1. Turn the front wheels either to the left or right to improve access to the fender liner



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- 1) Open the hood and use the prop rod to hold the hood in the open position.
- 2) Place protection over the LS Fender
- 3) While holding the battery sensor in place with one hand, use a ¼" drive ratchet and 10mm socket to remove the negative battery cable from the 12V negative battery stud. Do not remove negative cable from the battery post.
- 4) Position / protect the negative cable so it cannot accidentally touch body ground or the negative battery terminal.
- 5) Allow (60) seconds before the next installation step to ensure the airbag power supply is discharged.

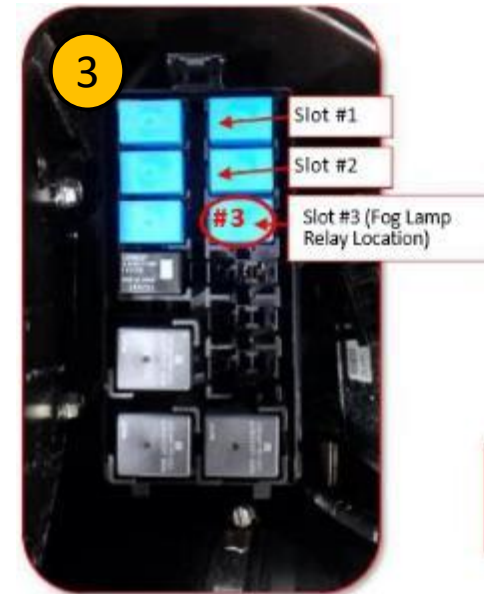
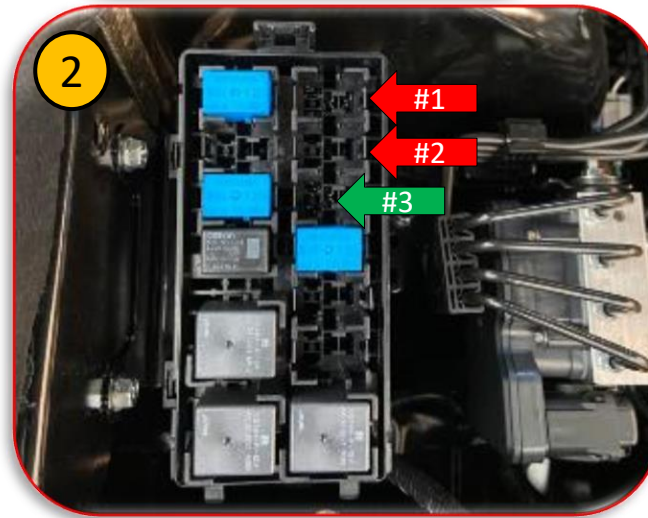
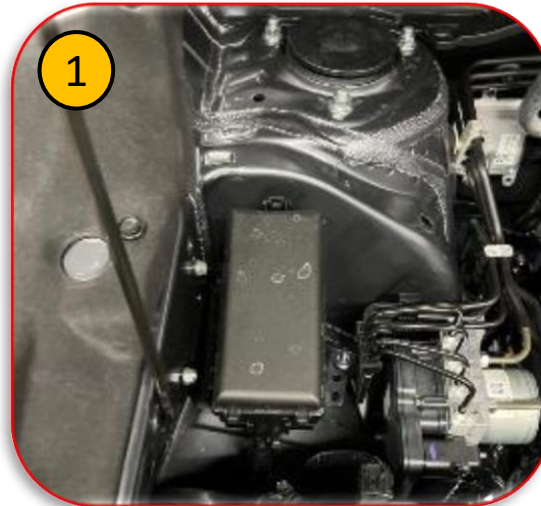


While disconnecting the 12V negative battery cable from the stud, hold to keep the battery sensor in place with one hand while loosening the 12mm hex nut that secures the cable to the sensor. This will help support the sensor to prevent damage and prevent the assembly from rotating on the battery post causing a poor connection. 

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Fog Light Relay Installation

1. Locate the relay box under the hood on the right side of the engine compartment.
2. Remove the relay box lid and locate the blank #3 slot shown.
3. Install the accessory relay supplied and fully seat.
4. Reinstall the relay box lid and ensure it is fully locked down in place.



Reinstall the relay box top and ensure it is in place.

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Preparation (Right-Hand)

1. Apply protective masking tape where the fender meet the bumper cover and around the fog light bezels.



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Disassembly (Right-Hand)

1. Using a nylon trim tool, remove the **3** large and **2** small trim clips retaining the right-hand bumper undercover.
2. Save all 5 clips for reinstallation.



Save all clips for reinstallation

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Disassembly (Right-Hand)

1. Carefully unseat the front bumper undercover.
2. Using a nylon trim tool, carefully remove the **1** front bumper cover to fender retaining clip on the right-hand side of the bumper cover.
3. Set the 1 clip aside for reinstallation.



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Disassembly (Right-Hand)

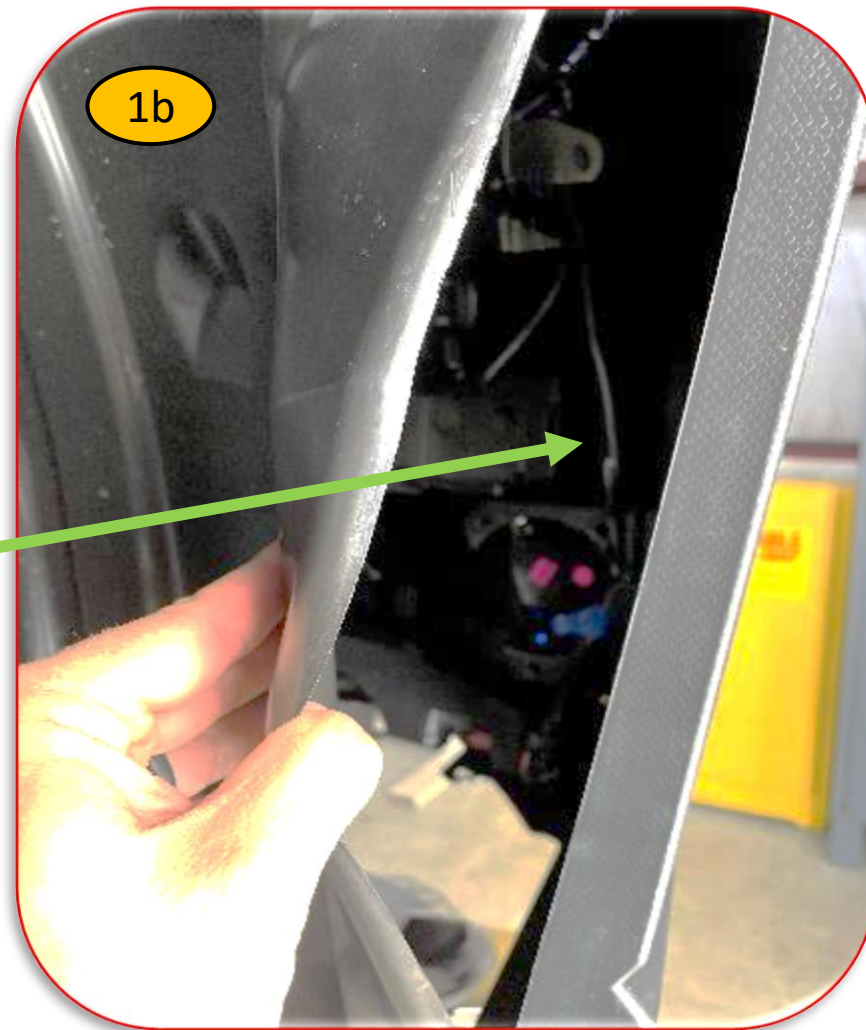
1. Carefully unseat the front bumper cover from the right-hand fender.
2. Note: Stop unseating where the bumper cover meets the headlight assembly.
3. Carefully peel the wheel well liner back to gain access to the 1 retention clips on the backside of the O.E. fog light bezel.



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Disassembly (Right-Hand)

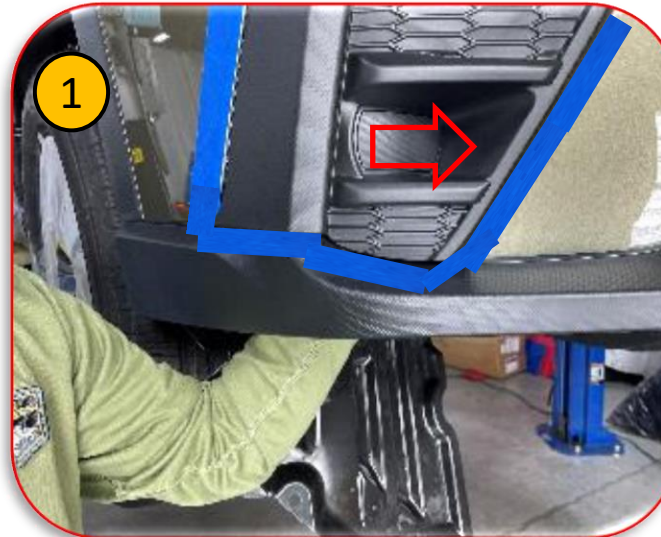
1. Using a nylon trim tool, carefully remove the 1 O.E. fog light bezel retention clip on the backside of the O.E. fog light bezel.
2. Save this clip for reinstallation.



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Disassembly (Right-Hand)

1. Carefully unseat the lower half of the O.E. fog light bezel by applying outward pressure on the backside of the bezel.
2. Carefully unseat the center portion of the O.E. fog light bezel by gripping the bezel and pulling toward you.
3. Using a nylon trim tool, carefully disengage the 3 retention clips retaining the top portion of the O.E. fog light bezel.
4. Once all retention clips have been disengaged, carefully remove the O.E. fog light bezel and dispose of responsibly. 

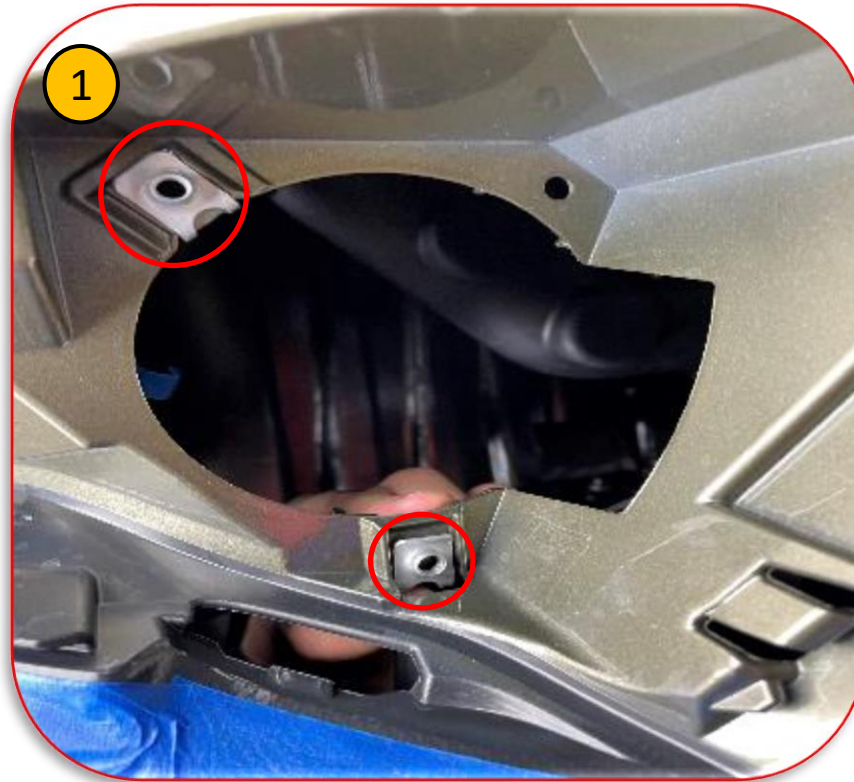


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Right-Hand Accessory Fog Light Installation

1. Obtain and carefully install the 2 metal retention clips from the accessory kit in the locations shown.

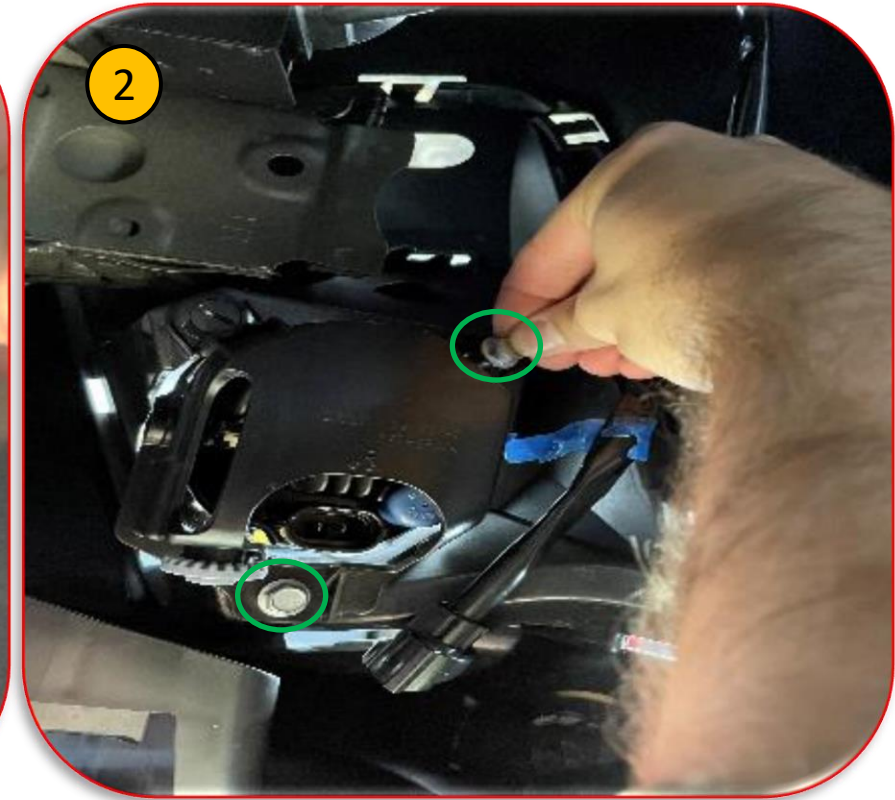
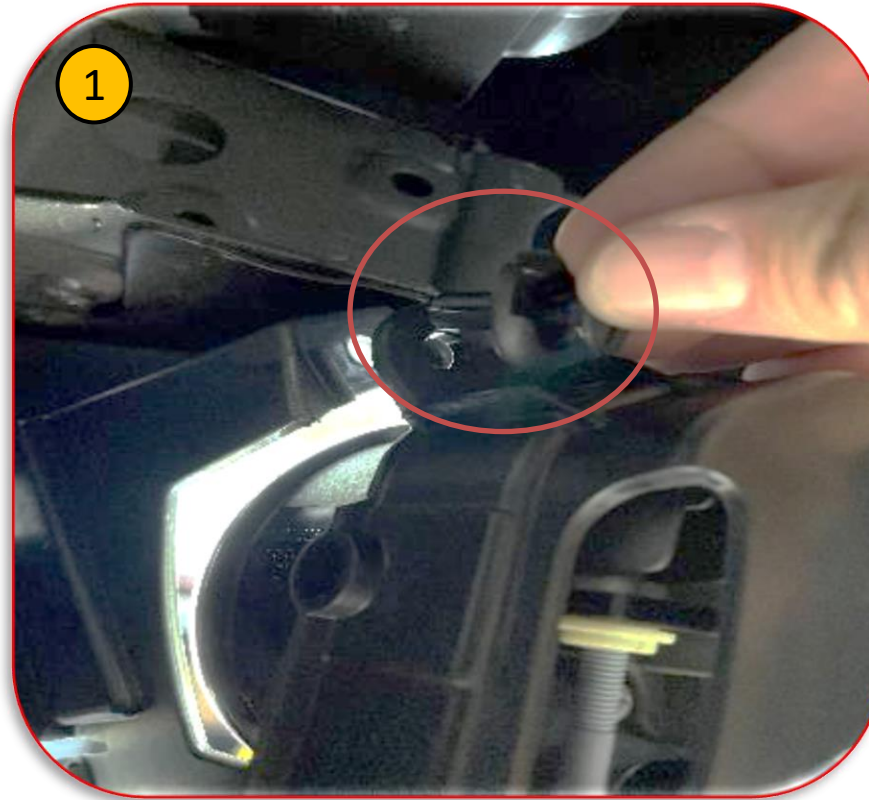
➤ Note: ensure these clips are installed to allow the bolts to be threaded from the backside of the bumper cover.
2. Obtain the correct accessory fog light assembly and align the 3 mounting points on the fog light with the 3-mounting locations on the bumper cover.



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Right-Hand Accessory Fog Light Installation

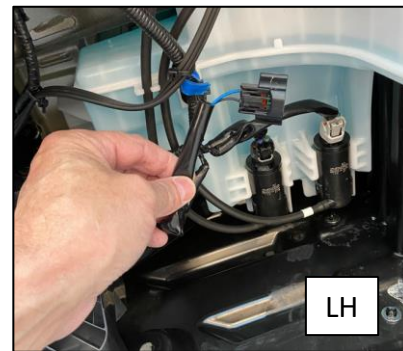
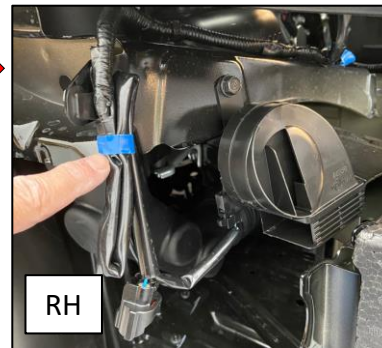
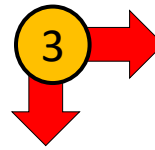
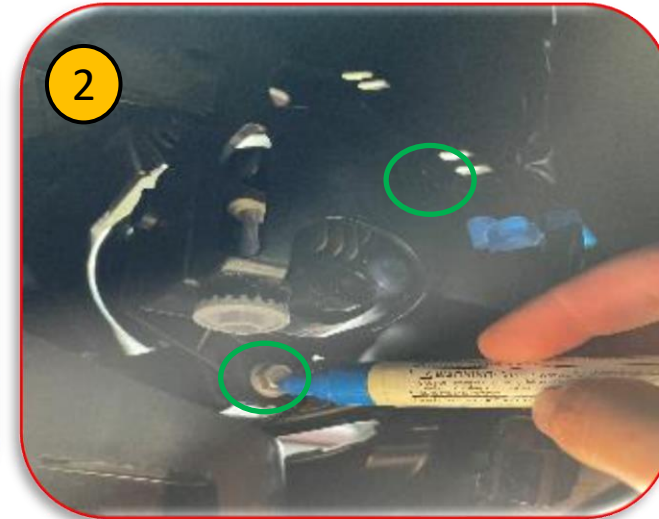
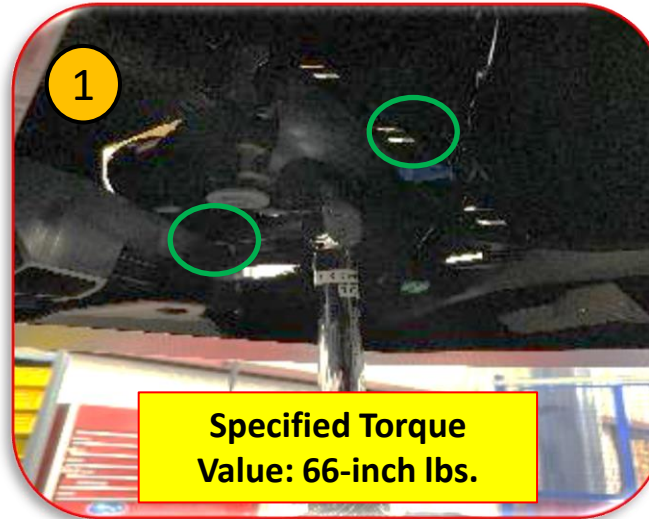
1. While having the accessory fog light properly positioned, carefully install the **1** retention clip from the accessory kit on the upper left corner of the fog light.
2. Carefully hand start the **2** 10mm bolts from the accessory kit in the locations shown.



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Right-Hand Accessory Fog Light Installation

1. Torque the 2 10mm bolts to 66 in-lbs.
2. Apply torque marks to the 2 10mm bolts.
3. Locate the O.E. fog light connector and break the blue breakaway tape and connect the accessory fog light. Ensure proper connection using the push-pull-push method.



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Right-Hand Accessory Fog Light Installation

1. Obtain the correct accessory fog light bezel and align the 11 bezel retention clips with the 11 retention clip locations on the front bumper cover.
2. Note: Moderate effort is required to get all the locking tabs to properly “click” into position.
3. Confirm there are no gaps, and the accessory fog light bezel is properly clipped in place.



Pay close attention when feeding all bezel tabs through the bumper cover



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Reassembly (Right-Hand)

1. Carefully peel the wheel well liner back to reinstall the 1 fog light bezel retention clip at the location shown.



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Reassembly (Right-Hand)

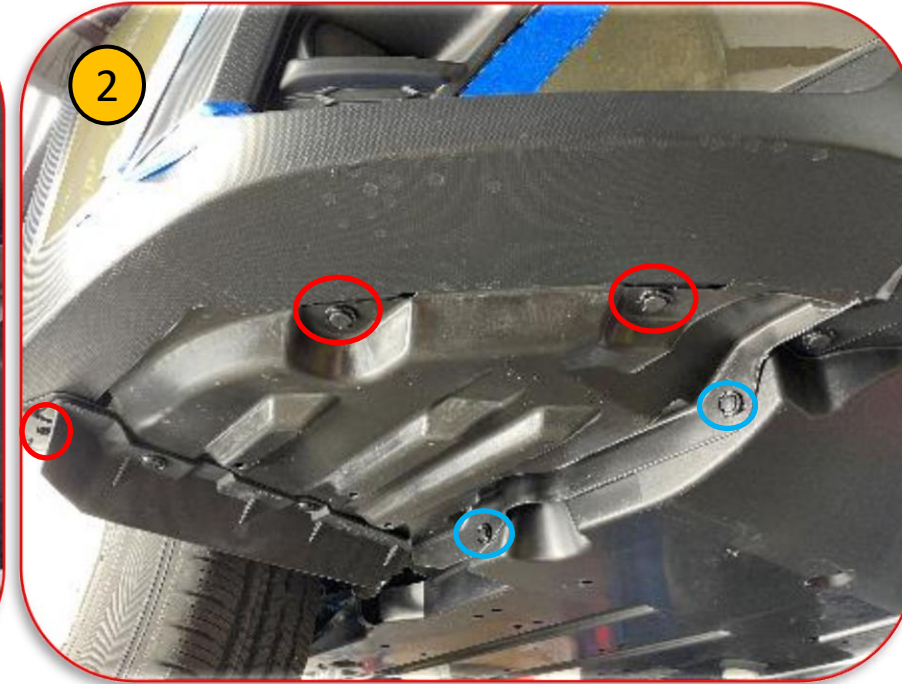
1. Carefully reposition the wheel well liner (behind the front bumper cover).
2. Carefully reposition and reseat the front bumper cover along the edge of the fender.
3. Reinstall the **1** front bumper cover to fender retaining clip.



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Reassembly (Right-Hand)

1. Carefully reposition the front bumper undercover.
2. Reinstall the 3 larger and 2 small retention clips in the locations shown.



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Reassembly (Right-Hand)

1. Remove the previously installed protective tape.
2. Remove the accessory fog light indicator label.
3. Using 99% alcohol and a clean towel, carefully clean the work area.

- Repeat slides 7-20 for the opposite side accessory fog light.



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Fog Light Switch Installation

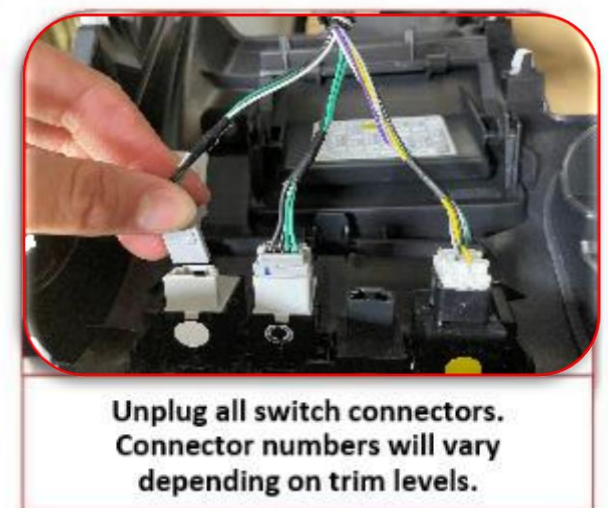
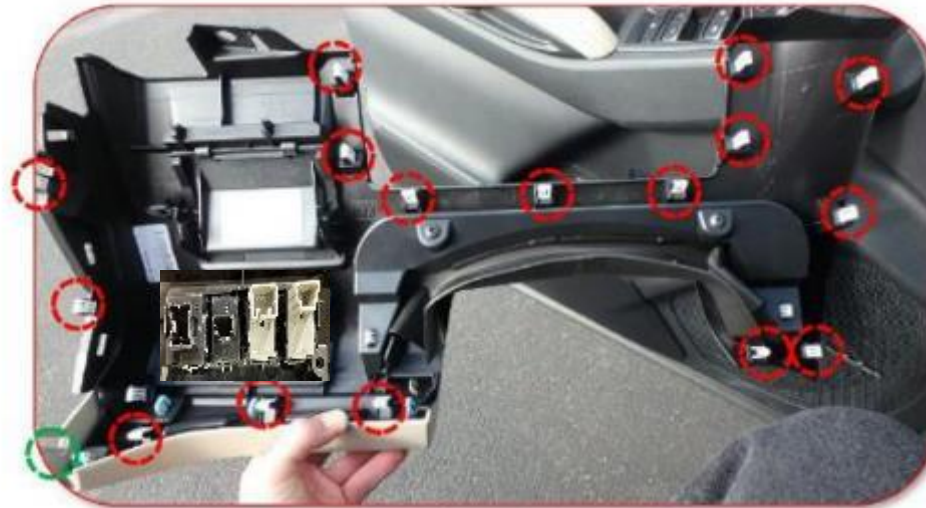
1. Place protection over the LH sill / door jam.
 2. Using a nylon trim tool, carefully remove the left-hand dash access panel by inserting the nylon trim tool at the top of the panel to begin unseating the 6 retention clips.
 3. Carefully pull outward on the access panel to release the (6) retaining clips.
- Place the panel aside for reassembly.



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Fog Light Switch Installation

1. Remove (1) screw on the lower right corner of the lower dash trim panel. Set aside for reinstallation.
 2. Remove the lower dash trim panel by pulling straight out to disengage the (16) retaining clips.
 3. While supporting the panel with one hand, unplug all switch connectors.
- Set the trim panel aside for reinstallation.



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Fog Light Switch Installation

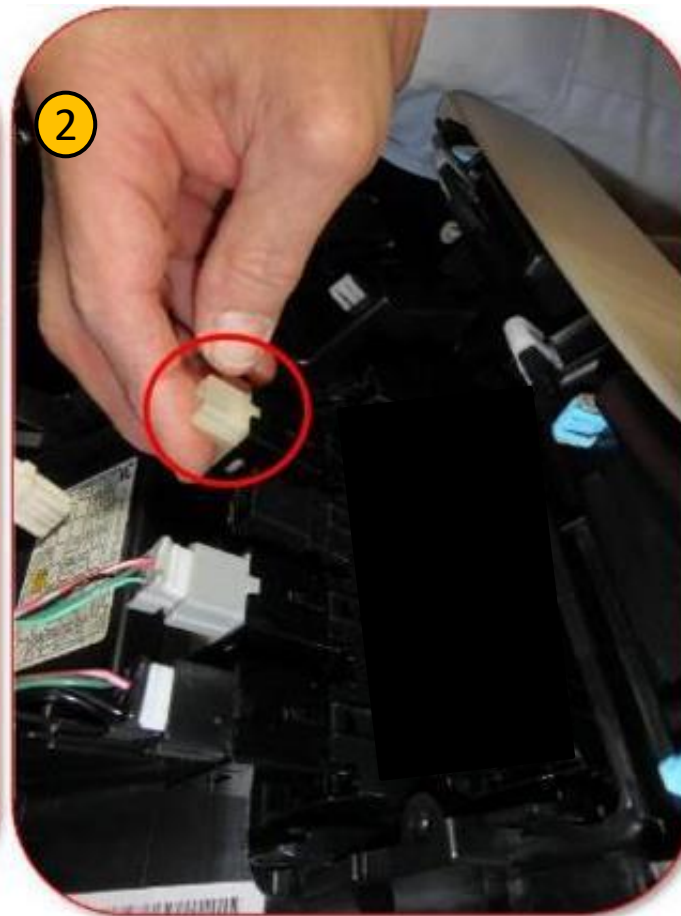
- 1) Locate the blank switch cover on the lower dash panel.
- 2) Using a nylon trim tool or scotty peeler, carefully remove the blank cover by spreading the retention clips on the backside of the blank cover.
- 3) Dispose / recycle the blank switch cover. 



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Installation

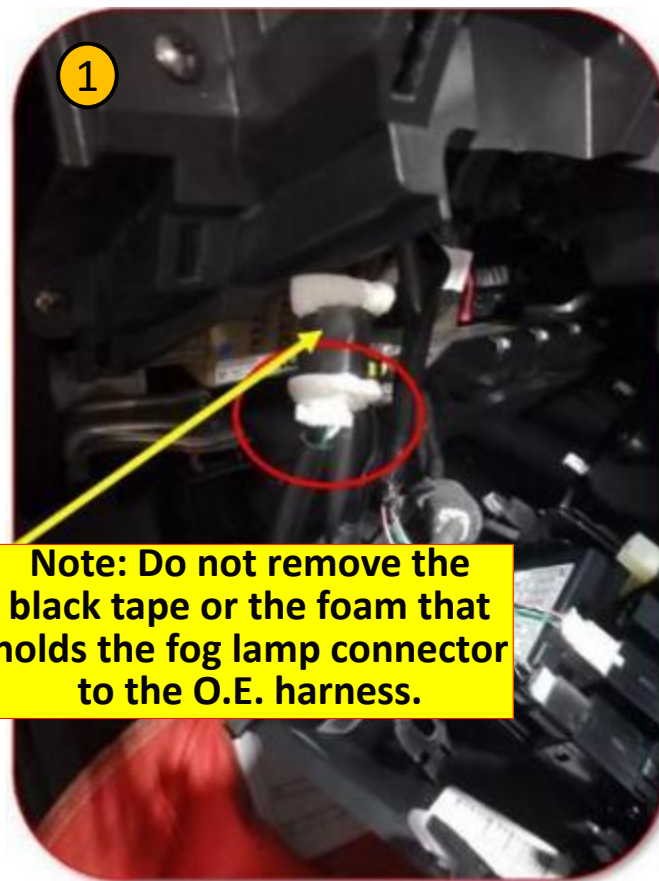
1. Insert the accessory fog lamp switch in the open slot.
2. Ensure the switch locks in place. Note: the fog lamp switch can only fit in the slot in the correct position.



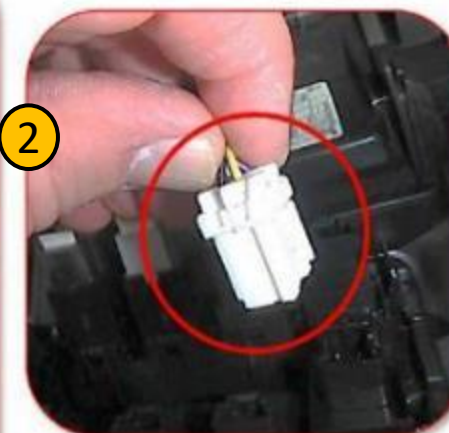
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Fog Light Switch Installation

- 1) Locate the pre-wired fog lamp switch connector plugged into a holder which is taped to the OE harness shown.
- 2) Disconnect the fog lamp switch connector from the holder.
- 3) Apply the "FOG-SW" identifier label to the fog lamp switch harness by folding the label around the harness and sticking the sides together.



LH side of steering column



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Fog Light Switch Installation

1. Connect the fog lamp switch connector. Confirm proper connection using the push-pull-push method.



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Dash Reassembly

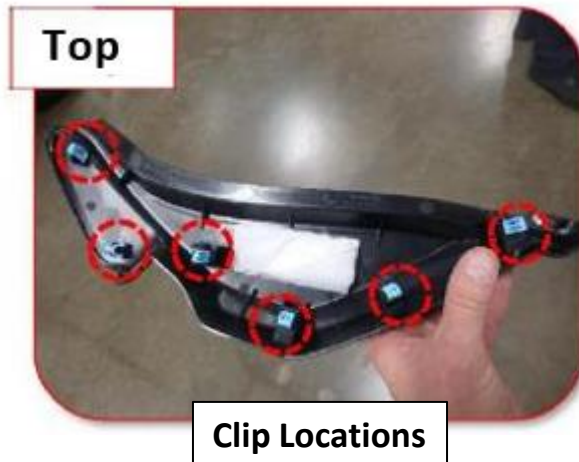
1. Carefully reconnect the switch panel connectors previously disconnected. (Confirm proper connections by applying push-pull-push method)
2. Reinstall the lower dash panel by carefully aligning the (16) clips as shown. Push in at the top left and right sides to start the reinstallation process.
3. Reinstall the 1 screw that retains the under-dash panel on the right side of the steering column.
4. Ensure the dash panel clips are fully seated around the Knee Airbag Module front Panel.



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Dash Reassembly

1. Carefully reposition the left-hand dash access cover aligning the 6 retention clips.
2. Carefully reseal the left-hand dash access cover.



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While connecting the negative battery cable to the stud, hold the battery sensor in place with one hand while torquing the 10mm hex nut that secures the cable to the sensor. This will help support the sensor to prevent damage and prevent the assembly from rotating on the battery post causing a poor connection. ⚠

Re-connect the negative cable by reinstalling the saved 10mm nut on the stud. Use a ¼" drive torque wrench and a 10mm socket, tighten the cable nut to 66 In. Lbs. while holding the sensor to prevent damage and prevent the assembly from rotating on the battery post.

Carefully reinstall the negative battery cable to the battery stud only. Do not allow the negative cable accidentally ground during the installation. ⚠

Torque mark the battery stud ⚠



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Check Your Work Validation

- ✓ Turn “ON” the ignition (Engine OFF), then using the light stalk, turn the lights “ON” (Low Beam) and press the fog light switch to the “ON” position.
- ✓ Exit the vehicle and confirm both fog lights are illuminated.
- ✓ Using the light stalk, put the headlights to the “High Beam” mode and confirm the fog lights shut off.
- ✓ Ensure the fog light switch and all other switches previously disconnected illuminate.
- ✓ Check the work area (both the dash assembly and front bumper cover) are damage free.
- ✓ Check the work area (both the dash assembly and front bumper cover) for stains or soil marks. Clean as needed.
- ✓ Apply light pressure to the fog light assemblies to confirm they are firmly in place.
- ✓ Confirm the negative battery terminal is torqued and marked.
- ✓ Ensure the auto-window feature is functioning properly.

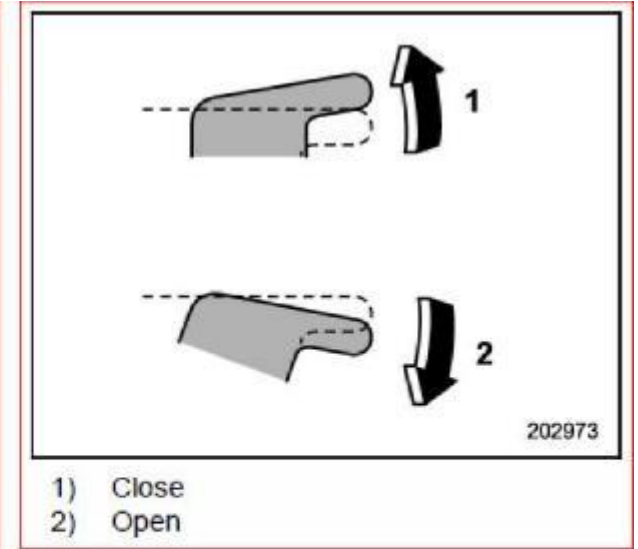
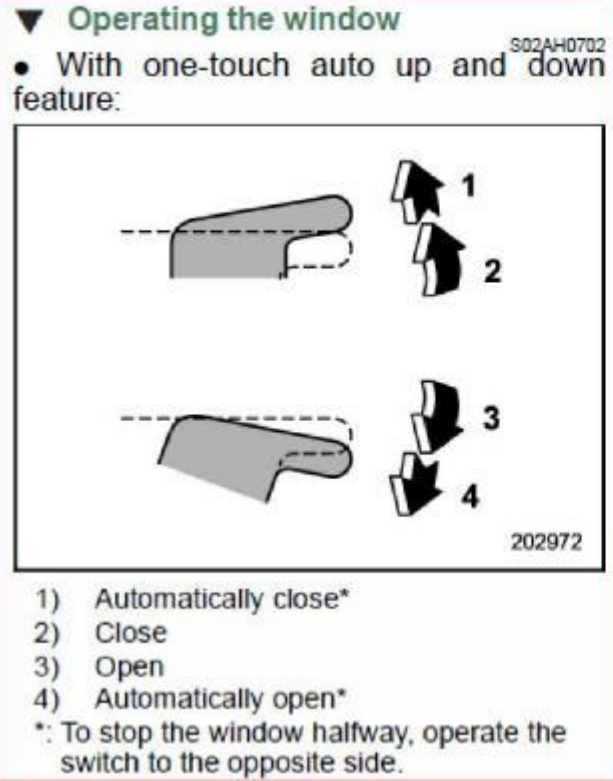
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Check the Power Window Up & Down Operation

Initialization of Power Windows

If the power window automatic function does not operate properly, operate each window according to the following procedure in order to initialize the power window system.

1. Close the door.
2. Turn the ignition switch to the "ON" position.
3. Open the window completely and then press and hold down the power window switch for approximately (1) second.
1. Close the window completely and then pull and hold the power window switch for approximately (1) second.
1. Confirm the power window automatic functions operate properly.



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Document History

<u>Revision</u>	<u>Date</u>	<u>Slide#</u>	<u>Description</u>	<u>Author</u>
A	6/7/2018	N/A	Original Release	JPL
B	4/13/2020	All	Updated all slide headers and slide information.	CR
B	4/13/2020	4, 24	Updated Battery disconnect and reconnect information.	CR
C	10/3/2022	Multiple	Update Part Number & Model year application. Update Bezel removal / install process and pictures	CR / RM