

# 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100



**STOP** Ensure the VIN matches the work order and the vehicle date is in the lock period and there are no "Holds" on the vehicle for any reason.

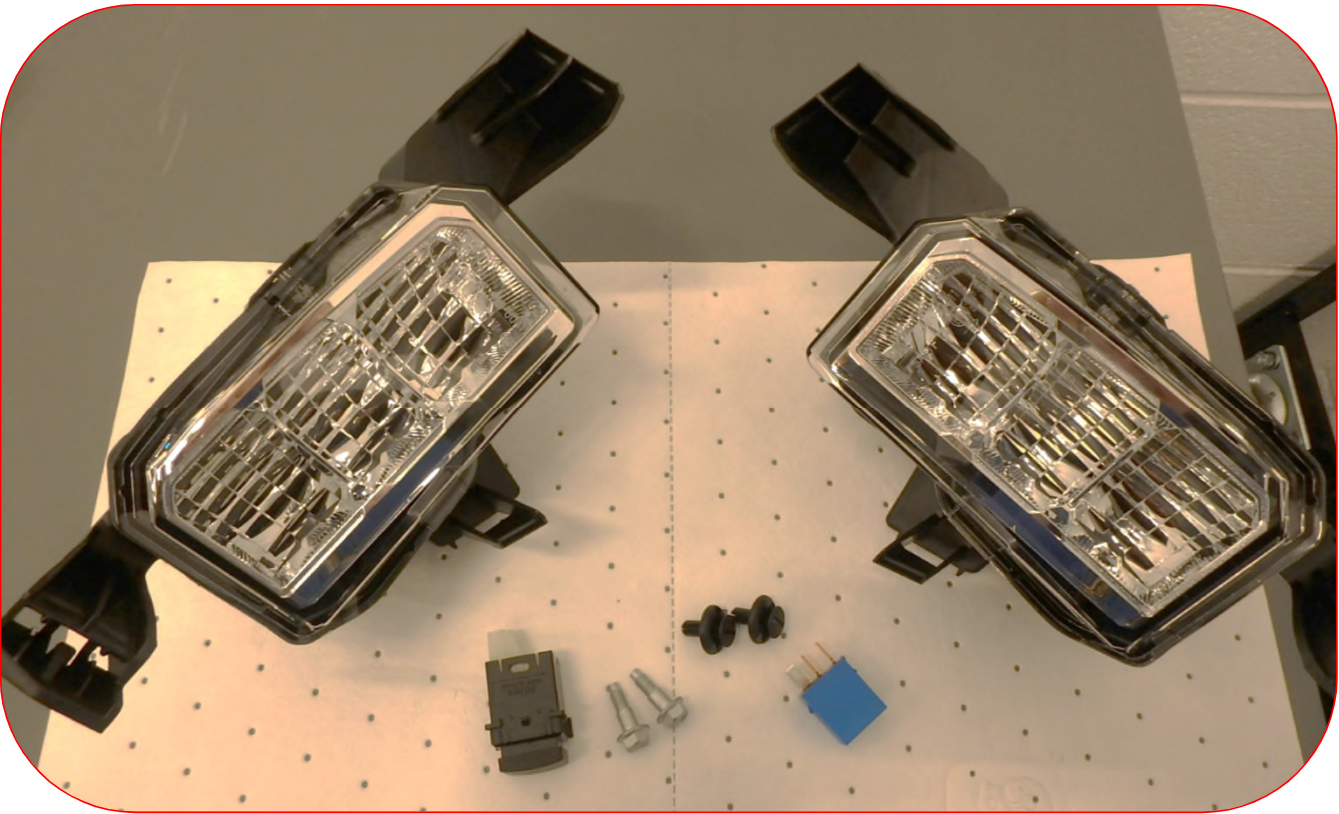
Ensure the vehicle calls for the accessory installation. Inspect the area where the accessory is to be installed and the vehicle for damages, etc. prior to all work.

**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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Inspect the Fog Lamp Kit parts to ensure no missing parts or part defects:



	<b>Stop:</b> Damage may occur to the vehicle/part. Do not proceed until process has been complied with.
	<b>Work Hazard Analysis (WHA):</b> Operator safety-Use caution to avoid risk of injury.
	<b>Caution:</b> 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.
	<b>Revision Mark/Highlight:</b> This mark highlights a change in installation with respect to the previous issue.
	<b>Work Instruction Training (WIT):</b> Key point that designates an important step to ensure the quality of the installation.
	<b>Recycle:</b> Item to be recycled.
	<b>Safety Torque</b> - This mark indicates that a torque is related to safety

Kit Contents			
Fog Lights, Driver: 1 Passenger: 1	Relay: 1	Switch: 1	Bolt: 2
Clip: 2			

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## Required Tools and Supplies

- Clip removal tool
- ¼" drive torque wrench (in. lbs.)
- #2 Phillips Screwdriver
- ¼" drive ratchet
- ¼" drive 4" Extension
- 10mm socket
- Nylon trim tool
- Scotty Peeler Tool (Optional)
- Clean towels (Micro-fiber)
- 99% Alcohol
- Paint "torque" marker
- Window Glass Cleaner (Optional)



Scotty Peeler™  
Tool P# SPN-1.

[www.scottypeeler.com](http://www.scottypeeler.com)

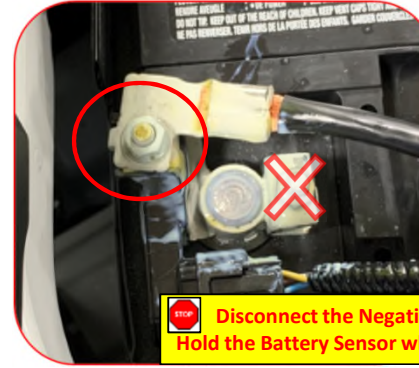


# 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100

## Disconnect the Negative Battery Cable



1. Open the hood and use the prop rod to hold the hood open.



**STOP** Disconnect the Negative Battery Cable Nut Only.  
Hold the Battery Sensor when loosening the nut.



2. Using a 1/4" drive ratchet and 10mm socket, loosen the negative battery cable nut.

3. When loosening, be sure to hold the battery sensor as shown above. Failure to properly hold the sensor can cause damage to the sensor.



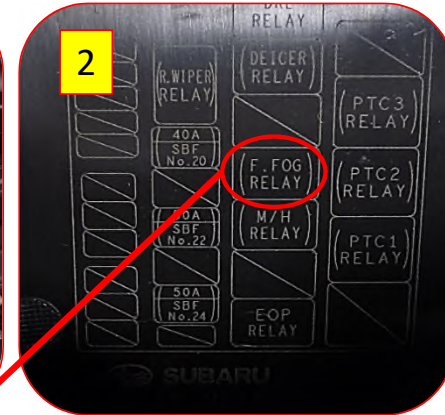
4. Once loosened, remove the nut and the cable from the stud. Position / protect the negative cable so it cannot accidentally touch body ground or the negative battery terminal. Allow (60) seconds before the next installation step to ensure the airbag power supply is discharged.

**⚠** Carefully remove the negative battery cable from the battery stud only. Do not allow the negative cable accidentally ground during the installation.

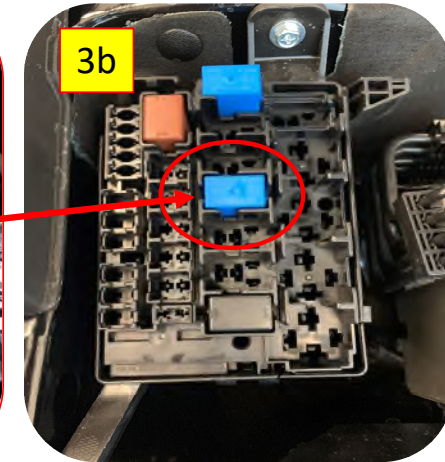
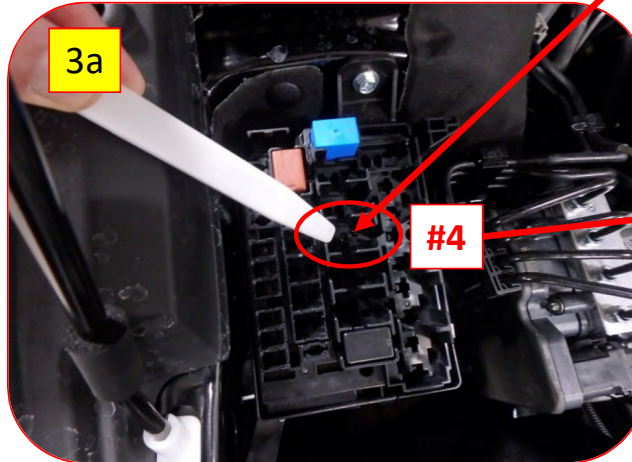
# 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100

## Install the Fog Light Relay in the Relay Box

1. Locate the relay box under the hood on the right side of the vehicle in the engine compartment.
2. Remove the plastic lid and locate the slot #4 as shown.
3. Insert the Fog Light Relay in the Relay Box Slot #4.
4. Reinstall the relay box top and ensure it is properly seated in place.



Slot #4 (Fog Lamp Relay Location)



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## Access the Fog Light Area


1. Remove (3) large clips using a nylon trim tool from the RH lower apron area to gain access to the inner front bumper area to install the RH fog lamp assembly.
2. Set all 3 clips aside for reinstallation.
3. Unseat the lower apron by pulling downward.



 **The clips will be reused so be careful not to damage them during removal.**

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## Remove the RH exterior front fog light cover

1. Carefully remove the RH fog light cover center light bezel by reaching from the inside of the front bumper releasing (1) push pin and (6) guide clips that retain the blank cover in place.
2. Once the bezel is unseated, apply light pressure outward to remove the bezel.
3. Dispose of the cover responsibly. 
4. Using a clean towel, clean around the fog light bezel area opening on the front bumper RH side.

- Be careful not to damage the fog lamp opening when removing the cover.

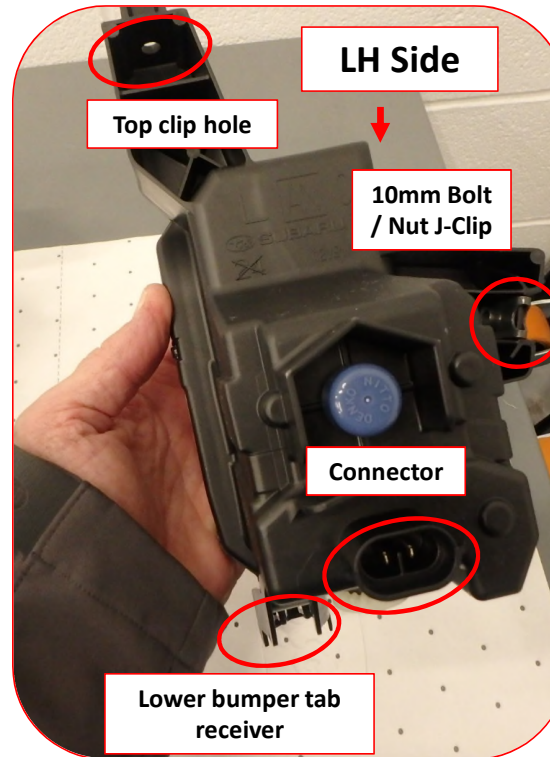


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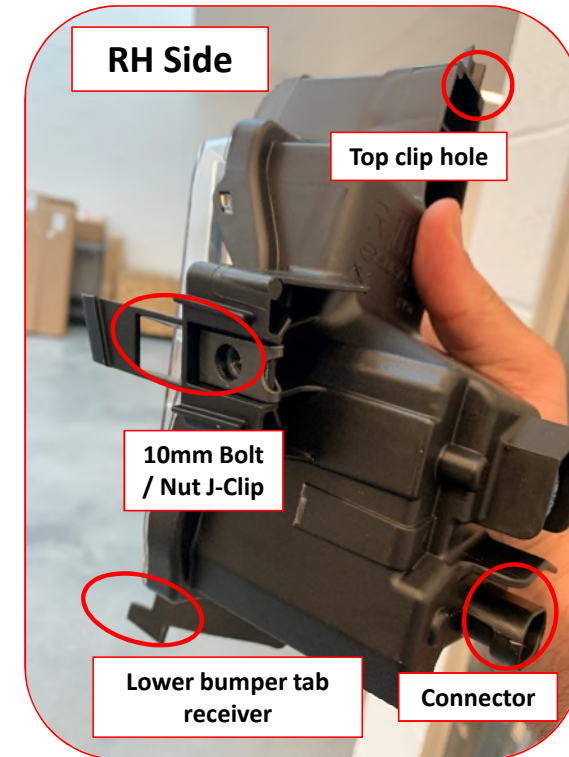
The Outback (GC7) LED Fog Lamp Left and Right side assembly identifiers and securing points.

1. The fog lamp assemblies are LH and RH side specific see the identifiers pictured.
2. There are (3) securing points, lower bumper tab holder, top clip hole, and side 10mm bolt "J" clip.

LH Side



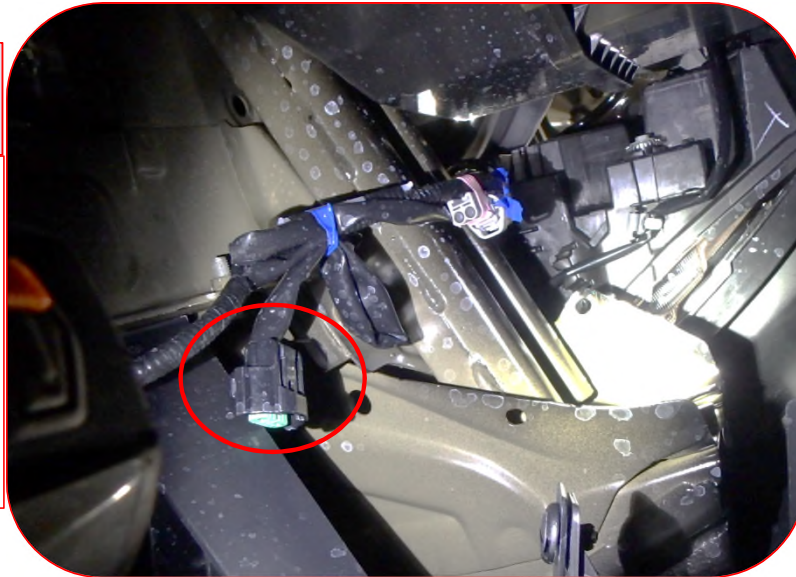
RH Side



# 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100

Locate the RH Fog light  
prewired connector

1. Locate the RH fog light connector in the front bumper fog light openings. Remove the connector and harness from the “blue” break away tape.



**⚠ Never use sharp tools such as a box cutter or side cutting pliers or razor blades to cut the break-away tape. Wiring can be accidentally cut or wire covering permanently damaged as a result of using sharp edged tools. Only use blunt tools such as a tape end wrapped flat blade screw driver. For “Pink” or “Black” break-away tape, un-wrap the tape to remove it because it is hard to break away and permanent damage can occur if not handled with proper care.**

10/18/2019

2020MY Outback (GC7) Fog Lamp Kit  
Work Instruction Issue Date: 10/02/2019 Revision: B



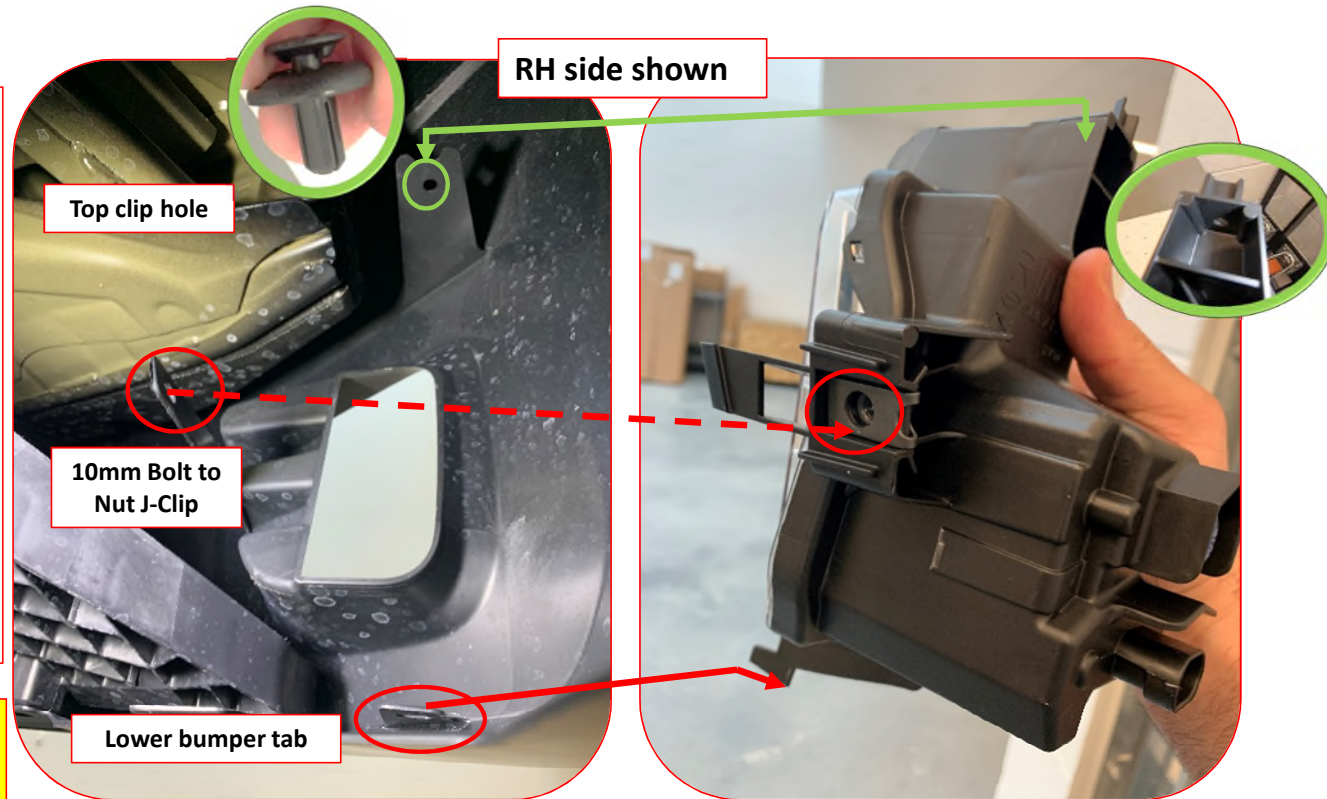
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## Install the RH Fog lamp assembly

1. Install the RH fog lamp assembly tab receiver to the lower bumper skin tab and ensure it is locked in place.
2. Locate (1) push pin clip supplied in the kit and insert the push pin into the upper bumper skin hole through the hole into the fog lamp assembly. Ensure the clip is properly secured in place.
3. Locate (1) 10mm head bolt and carefully hand thread the bolt. Use the  $\frac{1}{4}$ " dr. ratchet and 10mm socket to seat the bolt in place.
4. Using a  $\frac{1}{4}$ " Dr. torque wrench and 10mm socket to torque the bolt to 66 In. Lbs.
5. Using a torque marker, mark the bolt head.
6. Ensure the Fog Lamp assembly is secured in place by grasping the housing from the inside.

**STOP** Ensure the correct Fog Lamp Assembly is properly installed in the front bumper area as shown, once the lower tab is locked in place damage will occur trying to release the bumper tab and the fog lamp tab receiver.

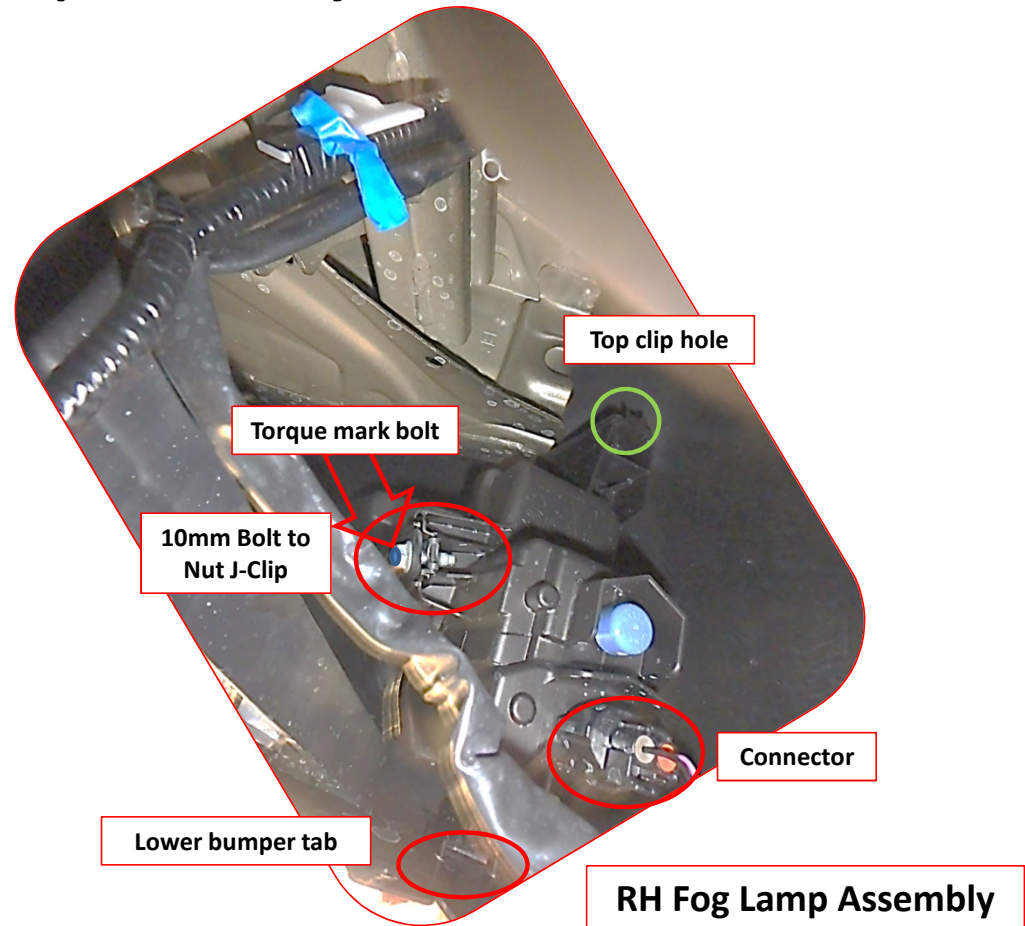


# 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100

## Install the RH Fog lamp assembly

1. Ensure the Fog Lamp assembly is secured in place and the 10mm bolt is properly torque marked.

**STOP** Ensure the correct Fog Lamp Assembly is properly installed in the front bumper area as shown, once the lower tab is locked in place damage will occur trying to release the bumper tab and the fog lamp tab receiver.

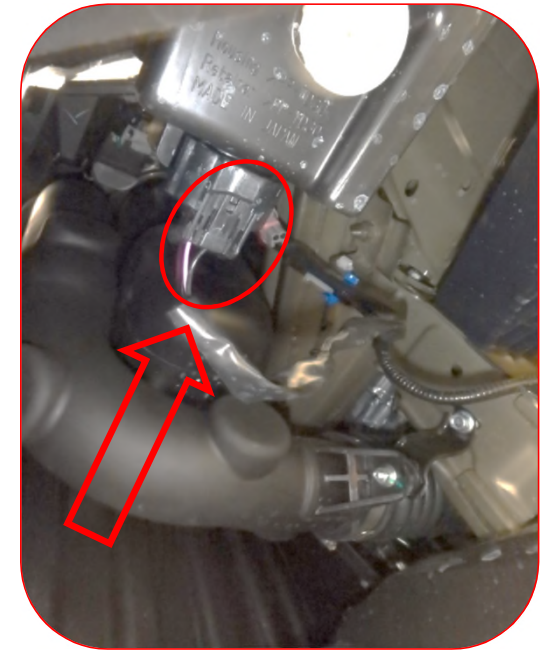


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## Install the RH Fog lamp assembly

1. Locate the O.E. fog lamp connector and plug in the connector to the fog lamp assembly.
2. Listen for the audible “click” of the connector lock. Ensure proper connection by carefully push pull push on the connector.

RH under bumper opening side shown



**⚠ Never use sharp tools such as a box cutter or side cutting pliers or razor blades to cut the break-away tape. Wiring can be accidentally cut or wire covering permanently damaged as a result of using sharp edged tools. Only use blunt tools such as a tape end wrapped flat blade screw driver. For “Pink” or “Black” break-away tape, un-wrap the tape to remove it because it is hard to break away and permanent damage can occur if not handled with proper care.**

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## Access the Fog Light Area

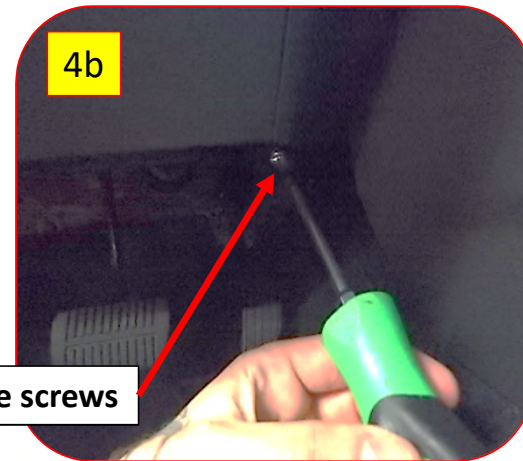
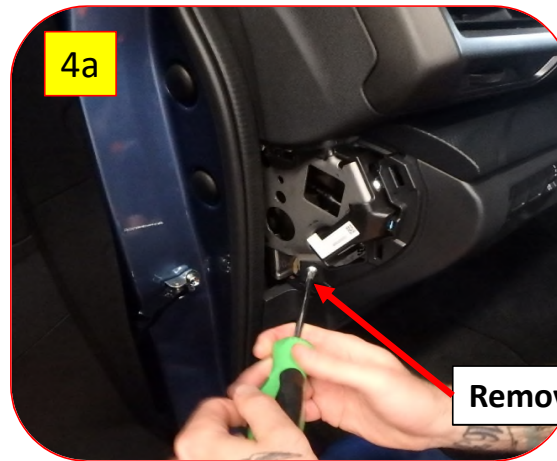
1. Properly reposition the RH lower apron and reinstall the saved (3) large clips.
2. Clean the RH fog lamp lenses with alcohol and a clean towel.
3. Repeat slides 6-13 on the LH side.



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## Removing LH lower dash

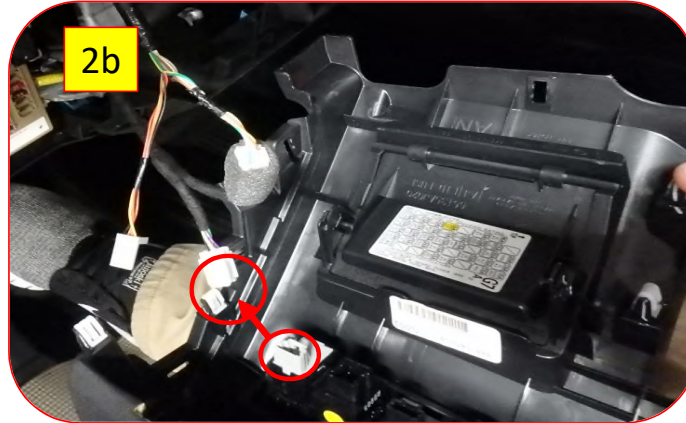
1. Cover sill plate with protection cover.
2. Remove driver's lower kick panel, place aside for reinstallation.
3. Remove LH side panel by inserting nylon trim tool at bottom of access notch, place the panel aside for reinstallation.
4. Remove (2) screws on the LH and RH sides of the lower dash panel.
5. Save the screws.



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## Removing LH lower dash

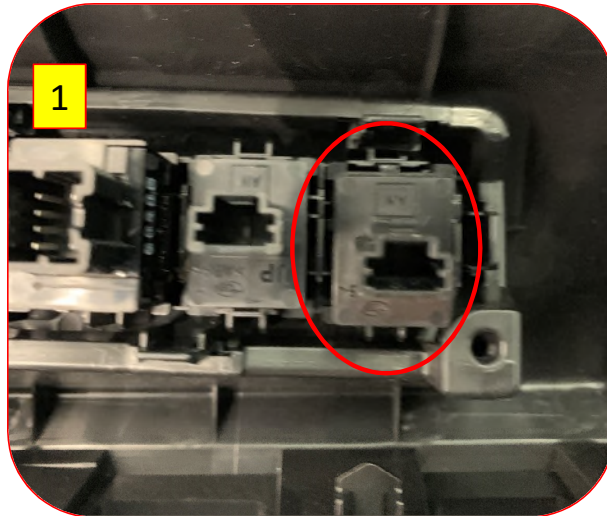
1. Carefully unseat the lower dash panel by pulling straight out to disengage (16) blue clips.
2. Carefully using trim tool, unplug all switch connectors.
3. Place lower dash panel on a clean dry protected surface.



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## Install the Fog Lamp Switch

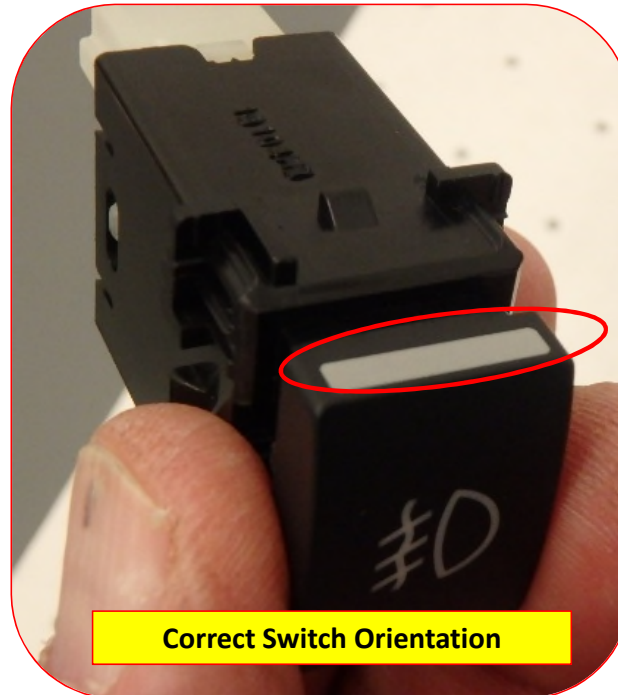
1. Locate the lower right blank switch cover on the lower dash panel.
2. Using a nylon trim tool or Scotty Peeler Tool, carefully spread the clips to allow the blank cover to be removed.
3. Dispose/ recycle the switch blank cover. 



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### Install the Fog Lamp Switch

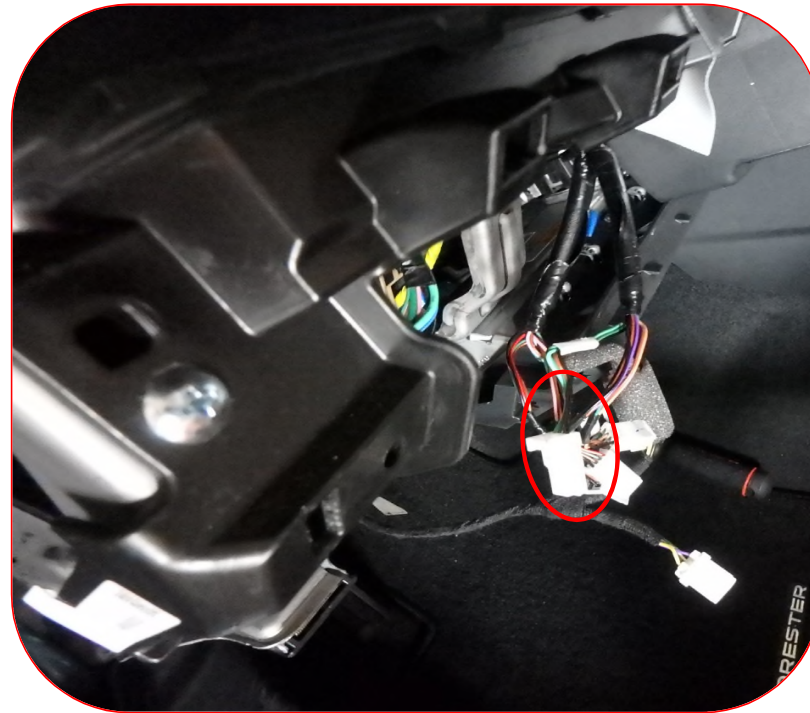
1. Install the fog lamp switch. It only fits in the correct position.
2. Listen for the audible “snap” sound when the switch is seated in place.



# 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100

## Install the Fog Lamp Switch

1. Locate the fog lamp switch harness connector that is 'breakaway taped to the harness.
2. Carefully remove the "breakaway" tape to release the (4 pin) fog lamp connector.



**⚠ Never use sharp tools such as a box cutter or side cutting pliers or razor blades to cut the break-away tape. Wiring can be accidentally cut or wire covering permanently damaged as a result of using sharp edged tools. Only use blunt tools such as a tape end wrapped flat blade screw driver. For "Pink" or "Black" break-away tape, un-wrap the tape to remove it because it is hard to break away and permanent damage can occur if not handled with proper care.**

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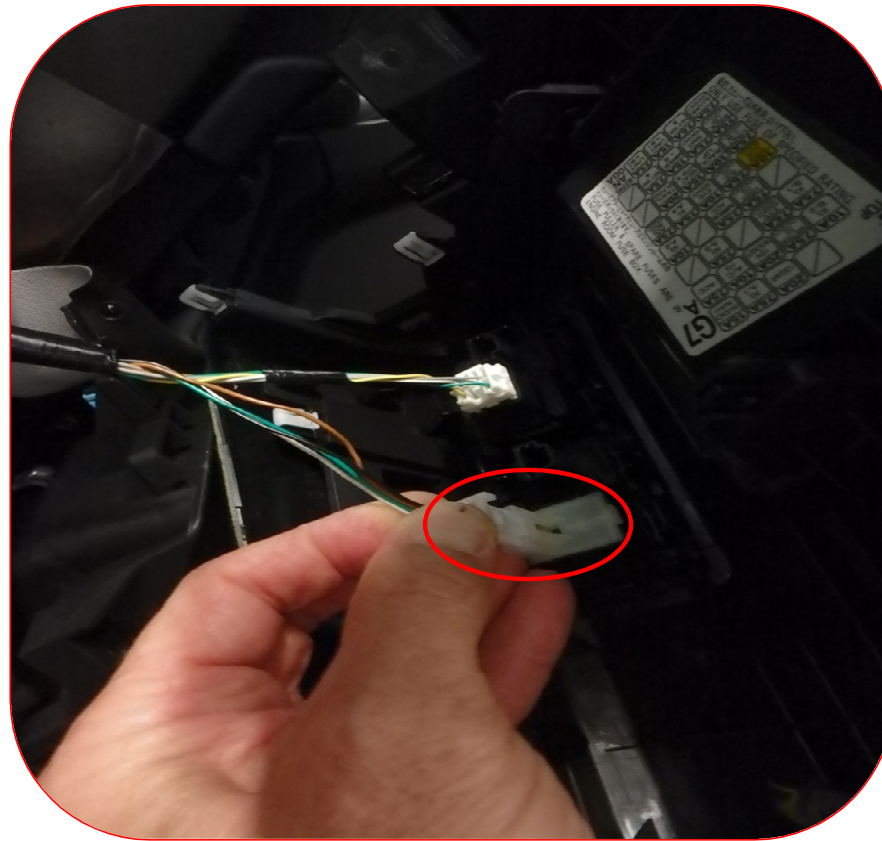


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## Install the Fog Lamp Switch

1. Plug-in the fog lamp connector, ensure the connector is properly locked in place. Carefully push-pull on the switch connector.



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## Install the Fog Lamp Switch

1. Ensure the fog lamp switch is oriented correctly and secure in the lower right bottom corner of the switch panel.



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## Reinstall LH lower dash

1. Carefully reconnect all switch connectors previously disconnected.
2. Carefully realign the lower dash panel by aligning and securing (16) blue panel clips.

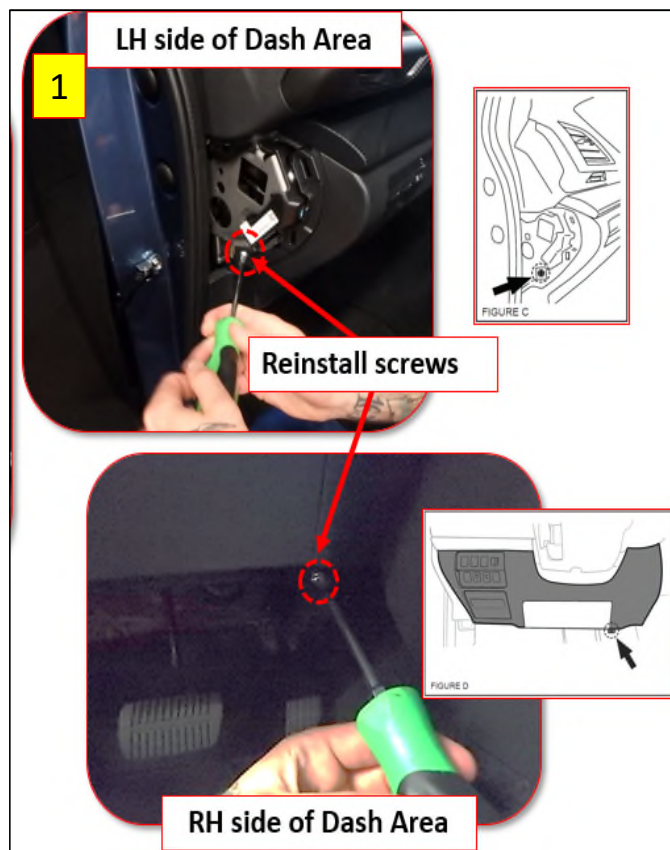


 Ensure the clips around the knee air bag are securely in place with no gaps.

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## Reinstall the LH lower dash

1. Reinstall the (2) saved screws on the RH lower side of the panel and (1) screw on the LH side of the lower dash panel.
2. Reinstall the LH side cover panel by aligning the (4) blue clips.
3. Reinstall driver's lower kick panel.



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## Reconnect the Negative Battery Cable



1. Carefully, reconnect the Negative Battery Cable to the Negative Battery stud. Hand start nut to stud.

**⚠** Carefully install the Negative Battery Cable to the battery stud only. Do not allow the negative cable accidentally ground during the installation.



2. Using a 1/4" drive ratchet and 10mm socket, tighten the Negative Battery Cable nut. While tightening, be sure to hold the Battery Sensor, as shown. Failure to properly hold the sensor can cause damage to the sensor. Torque to 5.5 ft. lbs. or 66 in. lbs.

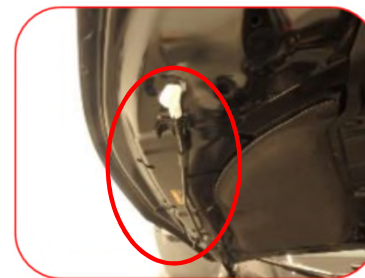
**STOP** Reconnect the Negative Battery Cable Only. Hold the Battery Sensor when tightening the nut. Torque to (5.5 ft. lbs. or 66 in. lbs.)



3. Paint mark the Negative Battery Stud, as shown.



4. Carefully disconnect the hood opening prop rod.



5. Store the rod back into position under the hood. Close the hood.

## 2020MY Outback (GC7) LED Fog Lamp Accessory Installation P# H451SAN100

### Check Your Work:

- Turn “ON” the ignition with engine “Off” and turn the lights “ON” (low Beam) and press the fog light switch to the “ON” position.
- Ensure the fog light switch is illuminated with the dash illumination and will dim or brighten using the dimmer switch.
- Exit the vehicle and ensure the fog lamps are illuminated.
- Using the light switch (stalk) put the headlamps in “High Beam” mode and exit the vehicle and ensure the fog lamps are not illuminated.
- Check the area around the fog lamps for scratches including painted areas.
- Push on the fog lamp assemblies to ensure they are firmly installed in place.
- Check the dash area for soil marks and ensure all panels are securely in place.
- Ensure the power windows function properly.
- Verify all disconnected switches illuminate.

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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.
4. Close the window completely and then pull and hold the power window switch for approximately (1) second.
5. Confirm the power window automatic functions operate properly.

