

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

STOP The 2020MY Outback & Legacy (GC7) O.E. exterior mirrors have additional functions for Limited, Touring and XT model trim levels.

- 1) Passenger side auto tilt down in reverse gear. Two position driver's seat memory synchronized w/ driver's seat memory.
- 2) Automatic folding exterior rear view mirrors.

Note:
Slides with blue headers are for non power folding mirrors.
Slides with orange headers are for power folding mirrors.

Exterior Auto-Dimming Approach Mirror Kit P# J201SAN000



⚠ Note: The accessory interior A/D Compass mirror or Home Link Mirror must be installed for the exterior A/D Approach Mirrors to fully function as designed.

STOP 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).

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Required Tools and Supplies

- ¼" Drive Ratchet w/ 6" extension
- 10mm socket
- ¼" Drive Torque Wrench (In. Lbs.)
- Clean Towels
- Window cleaner (optional)
- 99% Rubbing alcohol
- Torque marker
- Masking Tape
- Mirror Grease
- Flux brush and container
- Plastic Trim Tool
- Vehicle Painted Parts Protection

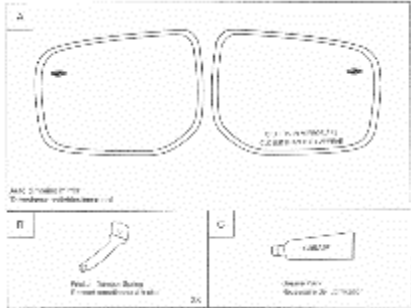









2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Inspect the Kits Parts

Inspect the Exterior A/D Approach Light Kit parts to ensure no missing parts or part defects:

Exterior Auto-Dimming Approach Mirror Kit P# J201SAN000

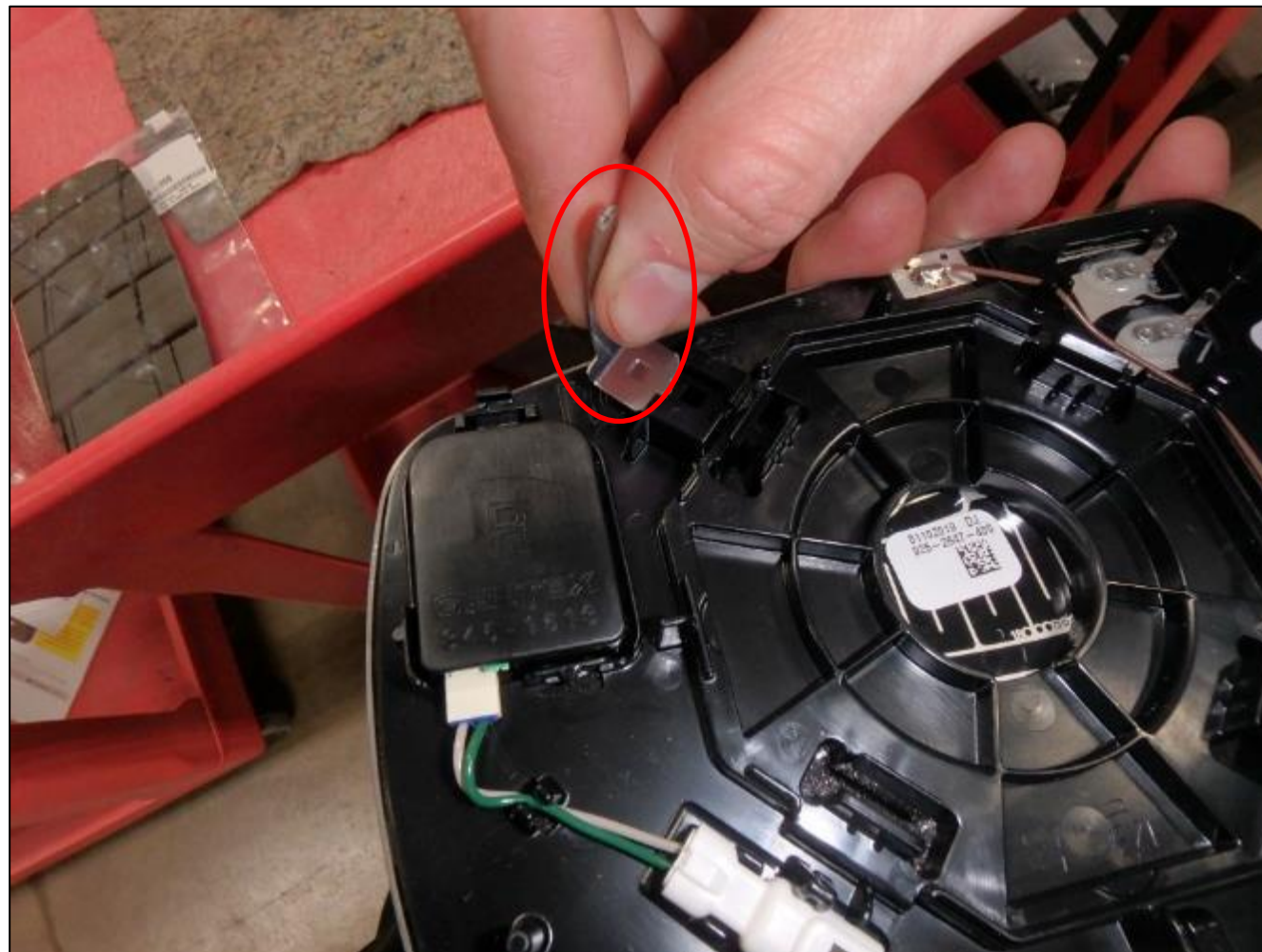


	STOP <u>Stop</u> : Damage may occur to the vehicle/part. Do not proceed until process has been complied with.
	WHA <u>Work Hazard Analysis (WHA)</u> : Operator safety-Use caution to avoid risk of injury.
	Caution : A process that must be carefully observed in order to reduce the risk of damage to the 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 <u>Work Instruction Training (WIT)</u> : 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


2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror A/D Approach Mirror Installation Preparation

1. Install the friction damper spring to the slot at the top of the A/D Approach Light mirror assembly for RH & LH mirrors



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

 **Note: It is very important the Installer is aware and understands the all new enhanced functionality on the all new 2020MY Outback & Legacy (GC7) exterior mirrors before attempting to install the accessory A/D Approach Light Exterior mirrors to prevent damaging the exterior mirrors on the models listed below that have additional enhanced mirror functions. The factory additional functions must be verified that they work according to vehicle specifications, the checks are listed in the Check Your Work Validation slide. Automatic Folding Mirrors will not allow the mirror body assembly to be moved in an extreme outward position like non-auto folding type mirrors. Do not attempt to fold out the automatic folding type mirrors.**

2020MY Outback (GC7) Exterior Mirror Improvements

- The following 2020MY Outback (GC7) Exterior mirrors have additional functions for these models;
- 1) Outback Limited / Touring / Limited XT / Touring XT models have Passenger side auto tilt down in reverse gear. Two position driver's seat memory synchronized w/ driver's seat memory.
 - 2) Outback Touring & Touring XT models have automatic folding rear view mirrors.

2020MY Legacy (GC7) Exterior Mirror Improvements

- The following 2020MY Legacy (GC7) Exterior mirrors have additional functions for these models;
1. Legacy Limited / Limited XT / Touring XT models have Passenger side auto tilt down in reverse gear. Two position driver's seat memory synchronized w/ driver's seat memory.
 2. Legacy Touring XT models have automatic folding rear view mirrors.

MY20 Outback/Legacy Models With Non-Power Folding Mirrors

- The following slides are applicable to models with non-power folding mirrors.
- If unsure please contact supervisor prior to installation.

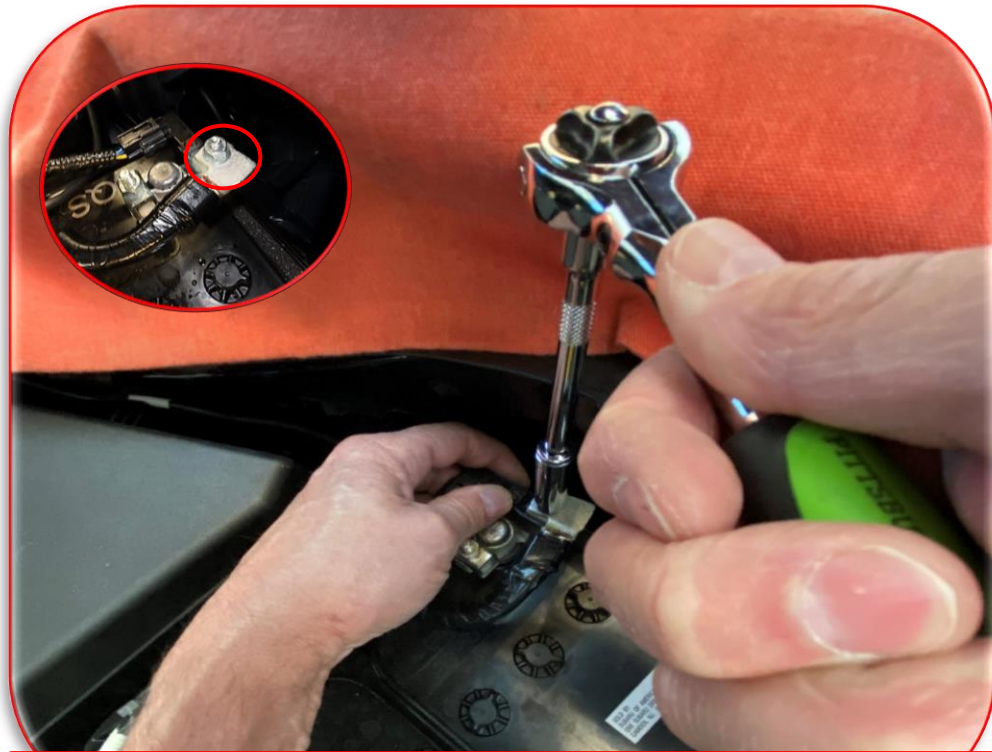
2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions


Fully open LF & RF Windows

1. With the ignition on and engine off, fully open both the LF and RF windows by operating the window switch on the LF door pad.
2. Once both the LF and RF windows have been opened fully, turn ignition to the off position.




2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions



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

Open the hood and use the prop rod to hold the hood in the open position. 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 negative battery stud. Do not remove negative cable from the battery post. Position / protect the negative cable so it cannot accidentally touch body ground or the negative the 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.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

LF Door Shown

Place Protection on Door

- 1) Place vehicle protection on the outer portion of the LF & RF door near the exterior mirror housing.



Non-Power Folding Mirrors

1. Carefully fold the LH mirror housing outward to the position shown in the picture.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions


Apply masking tape

1. Apply masking tape to the bottom, top and outer side edge as shown to protect the LH and RH mirror housing to prevent scratching or chipping the plastic housing surfaces during mirror glass removal and reinstallation.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

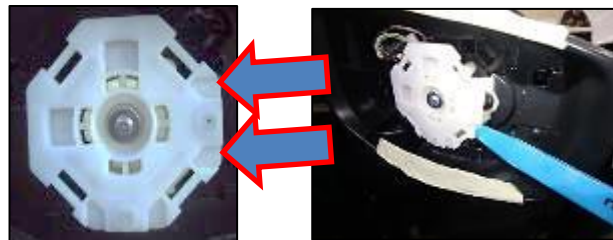
Exterior Mirror Glass Removal Process

1. Move the mirror glass assembly all the way to the inside and insert a plastic trim tool into the slots between the mirror glass and the backing plate.
2. Twist the trim tool to carefully release the mirror from the outside clips.
3. Grasp the mirror glass and carefully release the remaining clips that retain the mirror glass assembly in place.
4. If equipped with heater, carefully disconnect the heater wires. (refer to next slide).
5. Follow steps 1-4 on removal of accessory mirror glass.
6.  Dispose of the O.E. mirrors responsibly.

RH Side Mirror Shown



Insert plastic trim tool in these indicated areas for removal.



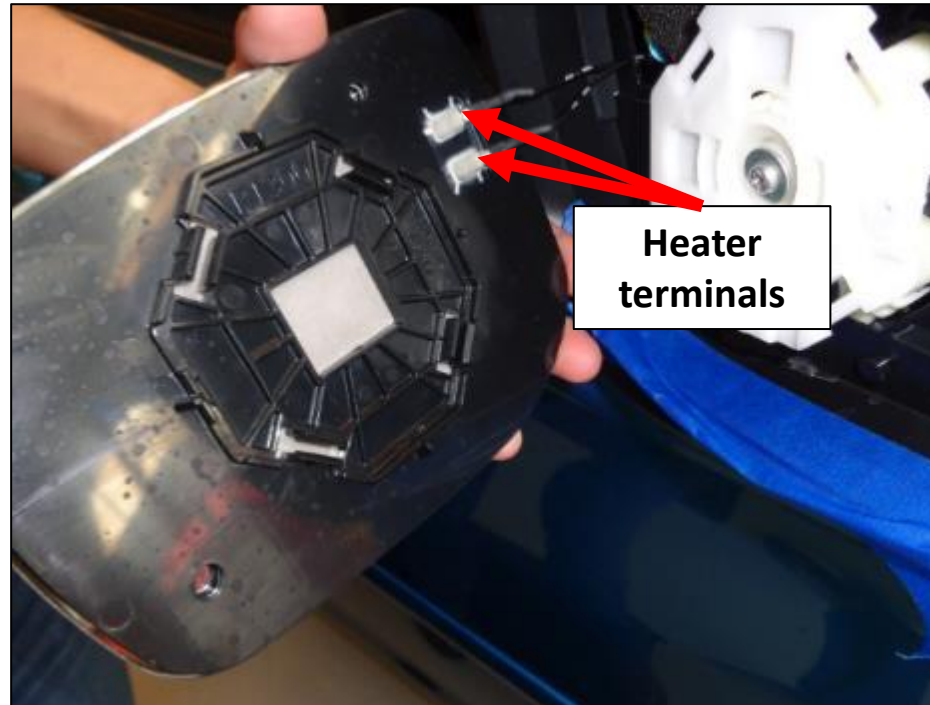
2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

RH Mirror Shown

Exterior Mirror Glass Removal Process


1. If equipped, carefully disconnect the heated OE exterior heater circuit connectors from the glass assembly.

Do not allow wires to be pulled off of mirror by simply pulling the mirror away. This will damage the wires and/or connectors. Hold glass with one hand and properly disconnect the two connectors one at a time.

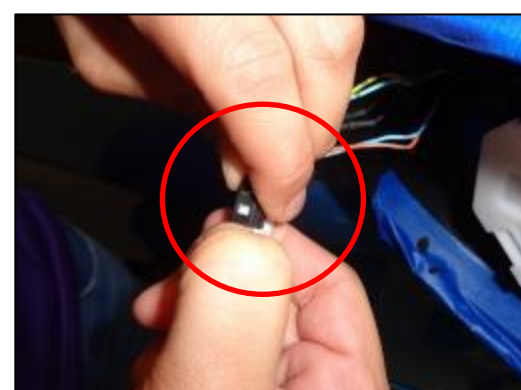


2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror A/D Approach Mirror Wiring Preparation

1. Locate and carefully pull the OE mirror harness connector from the location shown. If needed, **use only non-modified/non-damaged plastic trim tool to expose the mirror connector.**
2. Clean away the excess foam still affixed to the pre-arranged connector and wires.
3.  Carefully remove and dispose/recycle the white dummy plug from the connectors.

RH Side Mirror Shown



Carefully pull out the OE mirror wiring harness. Do not pull the wires out of the connectors because permanent connector damage will result. Use no tools!

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror A/D Approach Mirror Installation Preparation

1. Apply mirror grease to the slot located in the LH mirror housing. Clean off all surfaces of excess grease if accidentally applied to areas surrounding the target area. Do not get grease on the backing plate.



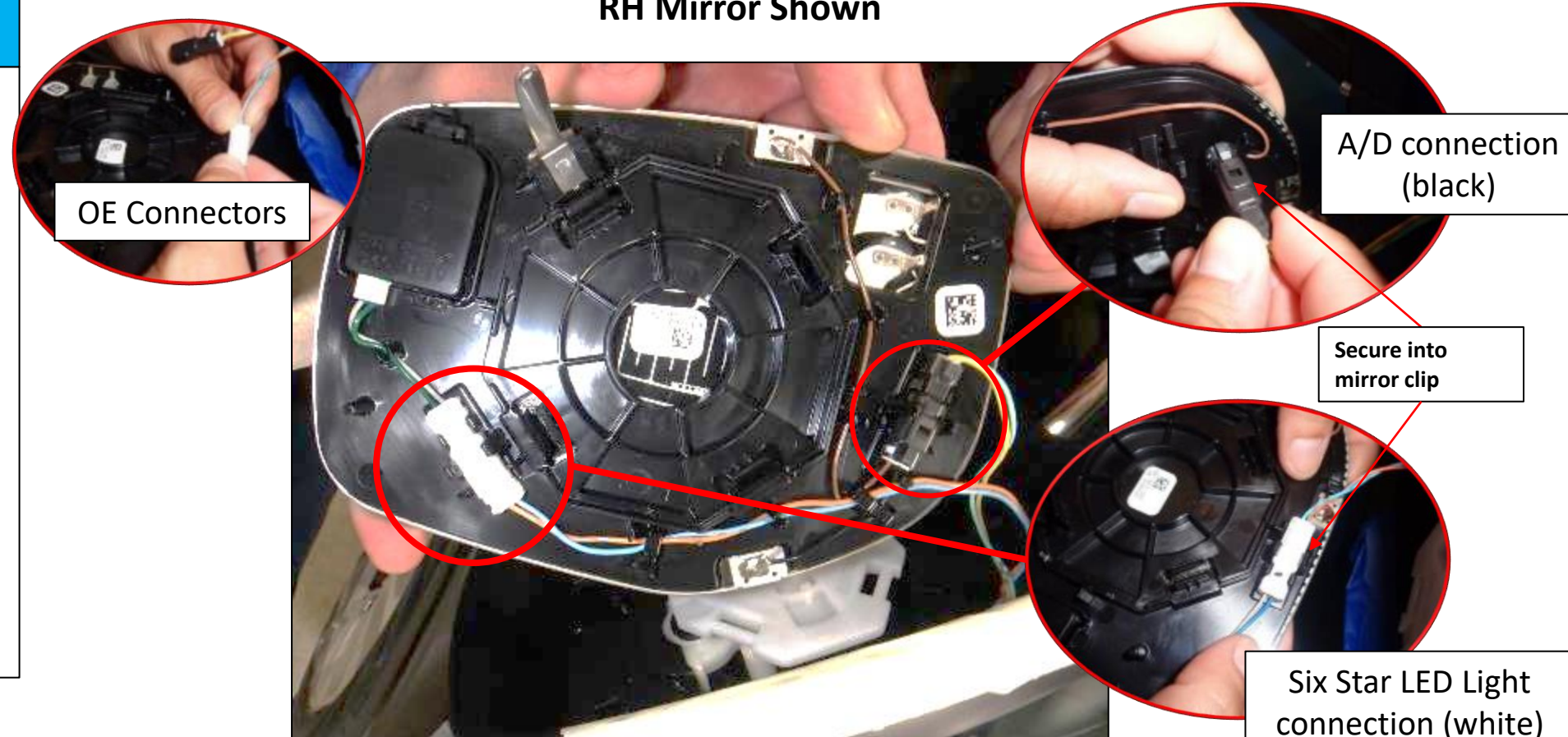
Wipe off all excess grease. Do not get grease on the backing plate.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror A/D Approach Mirror Installation

1. Connect the OE harness (black) 2-pin connector into the corresponding mirror (black) 2-pin harness connector.
2. Connect the OE harness (white) 2-pin connector into the corresponding mirror (white) 2-pin harness connector.
3. See wiring routing on the next slide.
4. Ensure both connections are secured into the mirror clip.

RH Mirror Shown



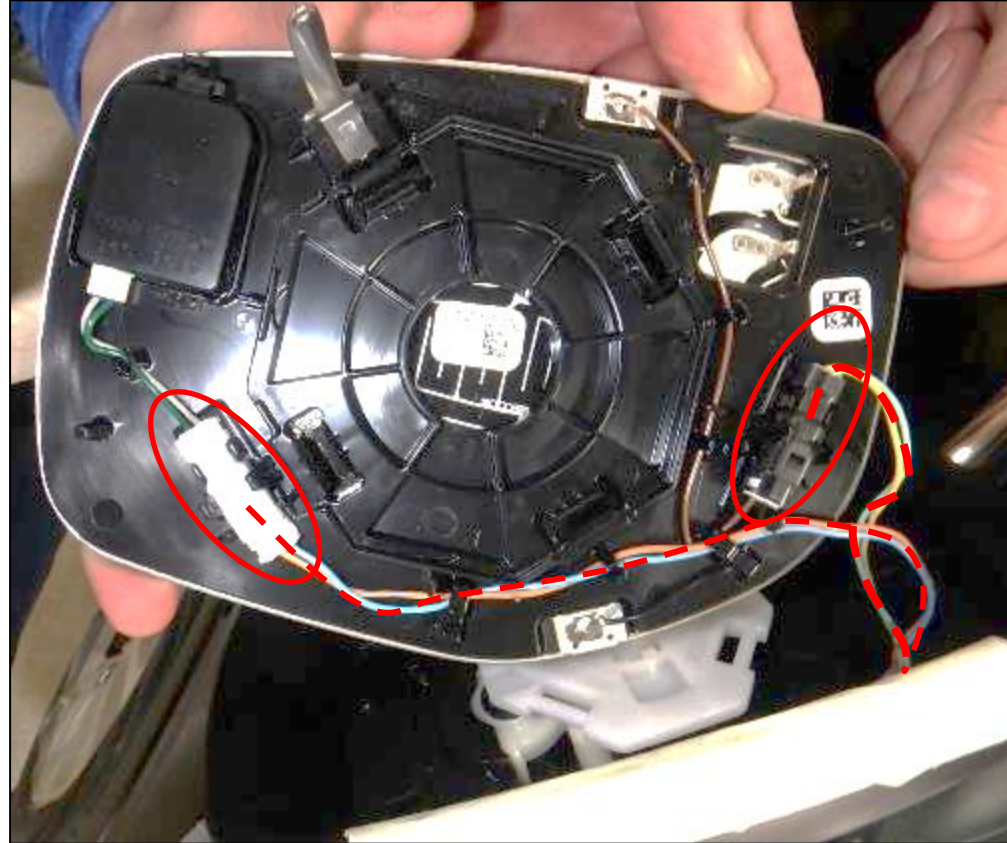
Ensure the connections are in place by the push-pull method to ensure proper wiring connection.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

RH Mirror Shown

Exterior Mirror A/D Approach Mirror Installation Wire Routing

1. Ensure both connections are secured into the mirror clip and the wires are routed in the mirror clips as shown.



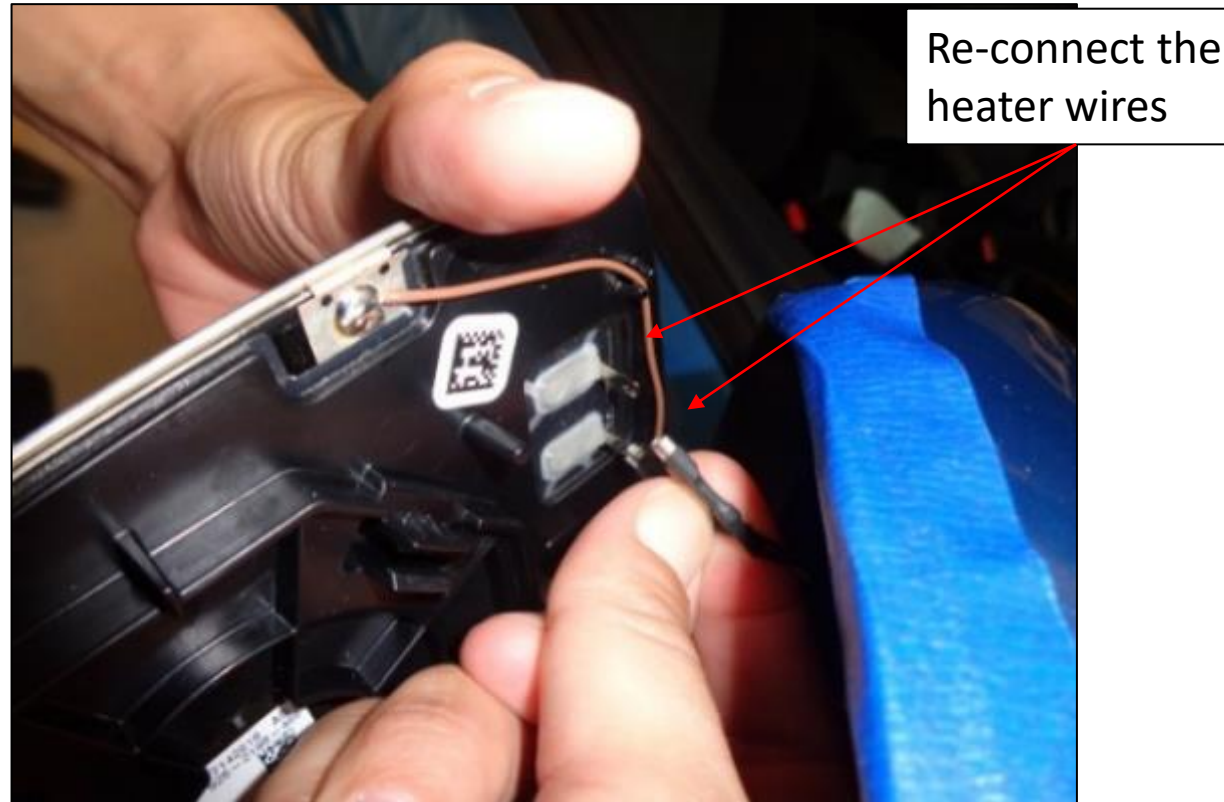
 Ensure the connections are in place by the push-pull method to ensure proper wiring connection.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Installation Process

1. If equipped, carefully connect the heated OE exterior heater circuit connectors to the A/D mirror glass.

Do not bend the terminals on the back of the mirror. Terminals must be 90° to the mirror backing.

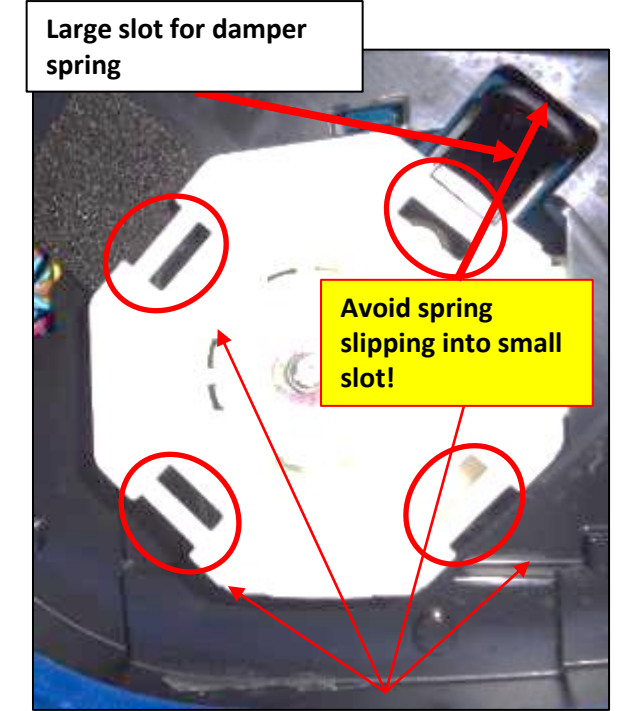
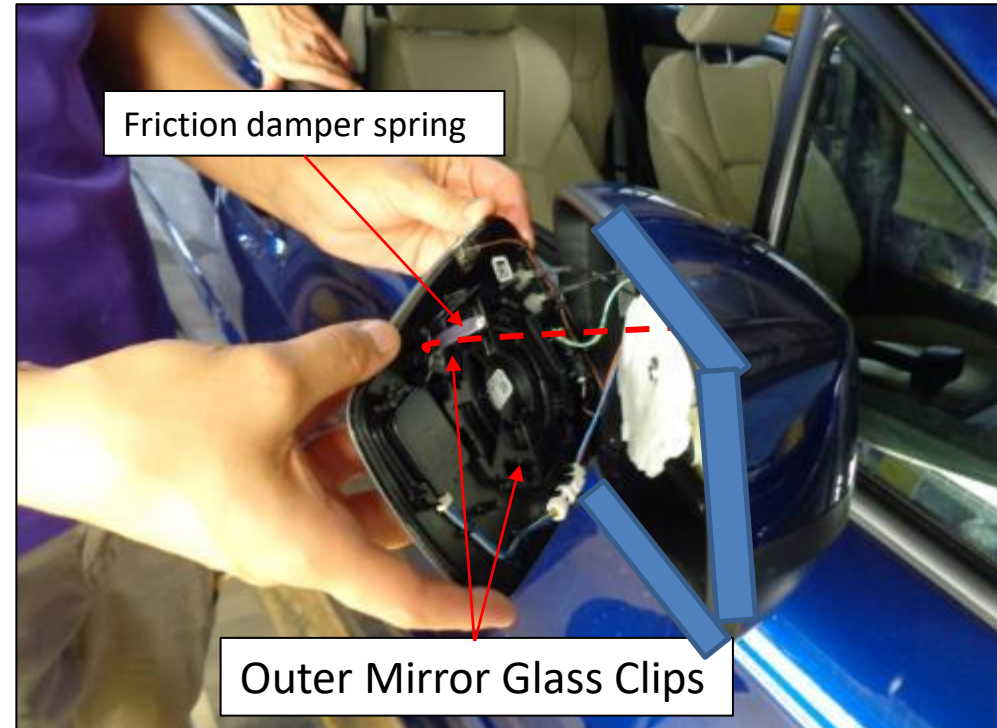


Ensure the heater connectors are fully seated onto terminals.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Installation Process

1. Carefully position the A/D Approach mirror by aligning the mirror clips with the exterior mirror Hexagonal (Stop Sign) white plastic backing plate housing. The A/D Approach mirror glass assembly has (4) clips that open to clip onto the (4) clip holders located on the Hexagonal (Stop Sign) white plastic housing.
2. Align the mirror carefully, ensuring the friction damper fits into the large slot, not the small slot above the large slot. Firmly press the mirror in place. You will feel all (4) clips engage.



Backing Plate Housing clip holders

STOP Ensure the friction damper spring is inserted in the large slot. If installed in the smaller slot the mirror movement will be restricted.

STOP Ensure the wiring is not pinched between mirror glass & backing plate or overlapping on the areas where the mirror glass is installed on the backing plate to prevent pinching wires and potential wiring damage. Ensure the friction damper spring is inserted in the large slot. If installed in the smaller slot the mirror movement will be restricted.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Installation Process

1. Carefully press the mirror glass into place using even pressure on the center of the glass. Using the palm of your hand may help to install the mirror to the backing plate. While using your opposite hand to hold the housing in place. Pushing the housing back too far can cause damage.
2. Verify the mirror glass is properly seated by carefully pulling at all four corners of the glass. Avoid moving the mirror glass to extreme angles when checking.
3. Once installed, remove the protective tape from the mirror housing.
4. Clean the mirror housing and glass with alcohol and a clean towel.
5. Carefully fold the mirror housing inward, to the inward most location.
6. Repeat slides 7-18 for the opposite side.

LH Mirror Shown



Avoid moving the mirror glass to extreme angles when installing the A/D Approach Mirror to prevent adjustment pivot damages.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions



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 also 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 ⚠



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

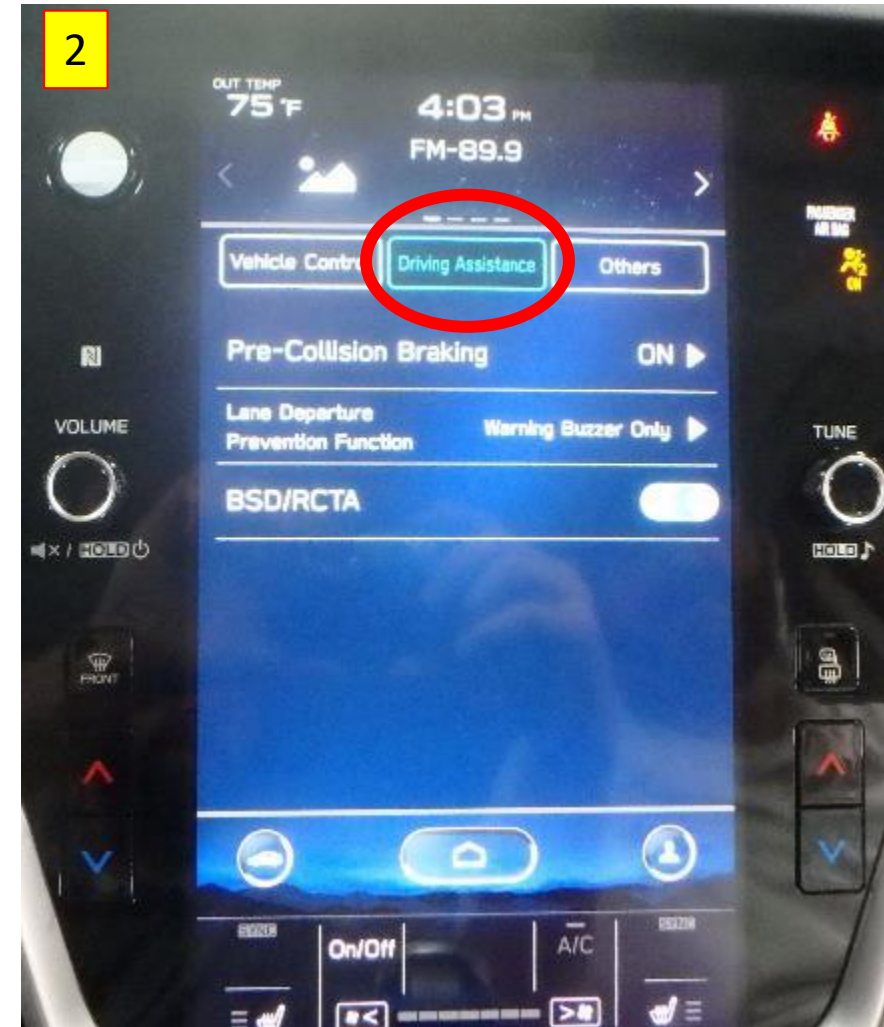
Check Your Work

- Turn the Ignition to the “ON” position and cover the interior mirror light sensor and ensure both exterior mirrors dim in unison with the interior mirror.
- Using the mirror switch on the drivers front door adjust both mirrors in all extreme positions up/down and left/right. Ensure the exterior mirrors reposition freely.
- With your foot on the brake pedal, put the gear selector in “R” mode and ensure the mirrors return to the not dimmed mode.
- If equipped, activate heated mirror circuit and verify the heated elements operate.
- Operate the turn signal stalk and observe the turn signal mirror indicator. (If equipped with integral turn signal indicators)
- Verify BSD is operational by following the steps on slides 21-22
- Ensure mirror glass, mirror housing, and surrounding work area is damage free.
- Ensure the approach light illuminates on both mirrors when door is opened.
- Verify power window “Auto up and down” feature is reinitialized if needed.
- **Limited/Touring/Limited XT/Touring XT Models Only;** *With ignition “ON” engine “OFF”, place your foot firmly on the brake pedal, put the gear selector in “R” mode and ensure the passenger mirror tilts “down” and when taken out of reverse returns to the same mirror position. Using the Driver’s Seat Memory Function switches located on the Driver’s door set the set adjustment for switch (1) and another seating position and mirror position for switch (2) and ensure the Driver’s and passenger mirrors change adjustment when the switches are selected separately.*

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Blind Spot Detection Verification (BSD)

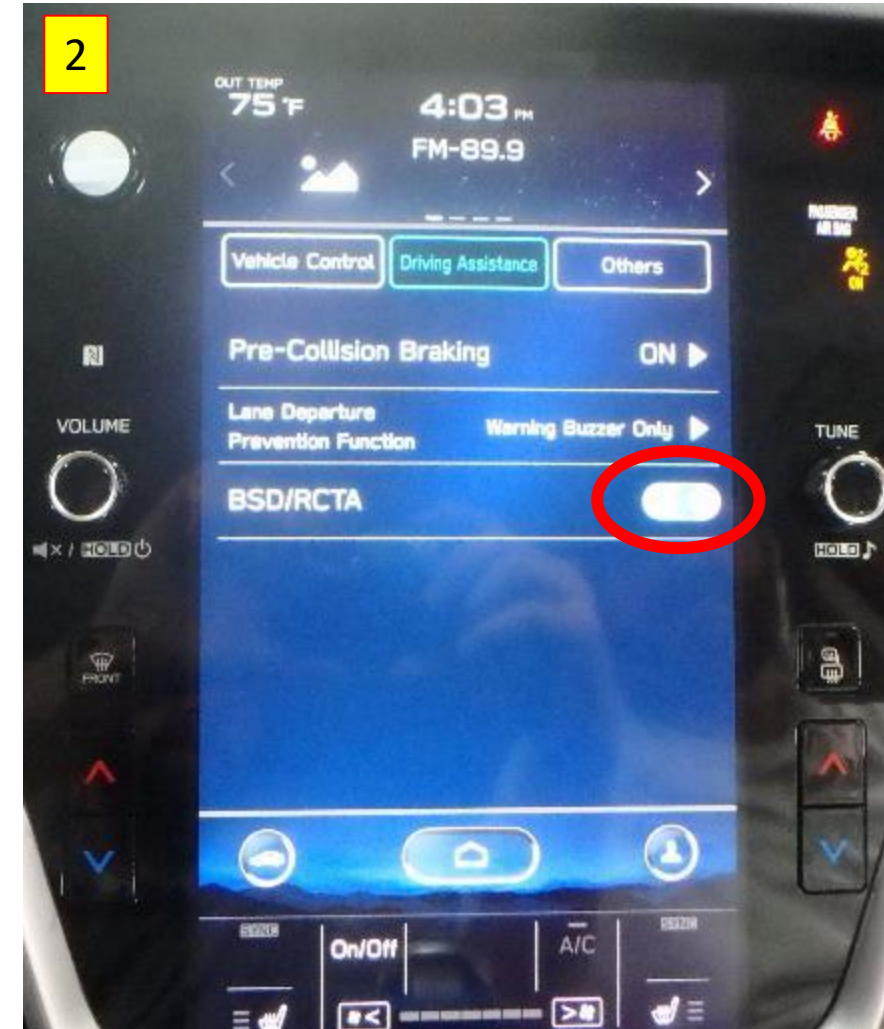
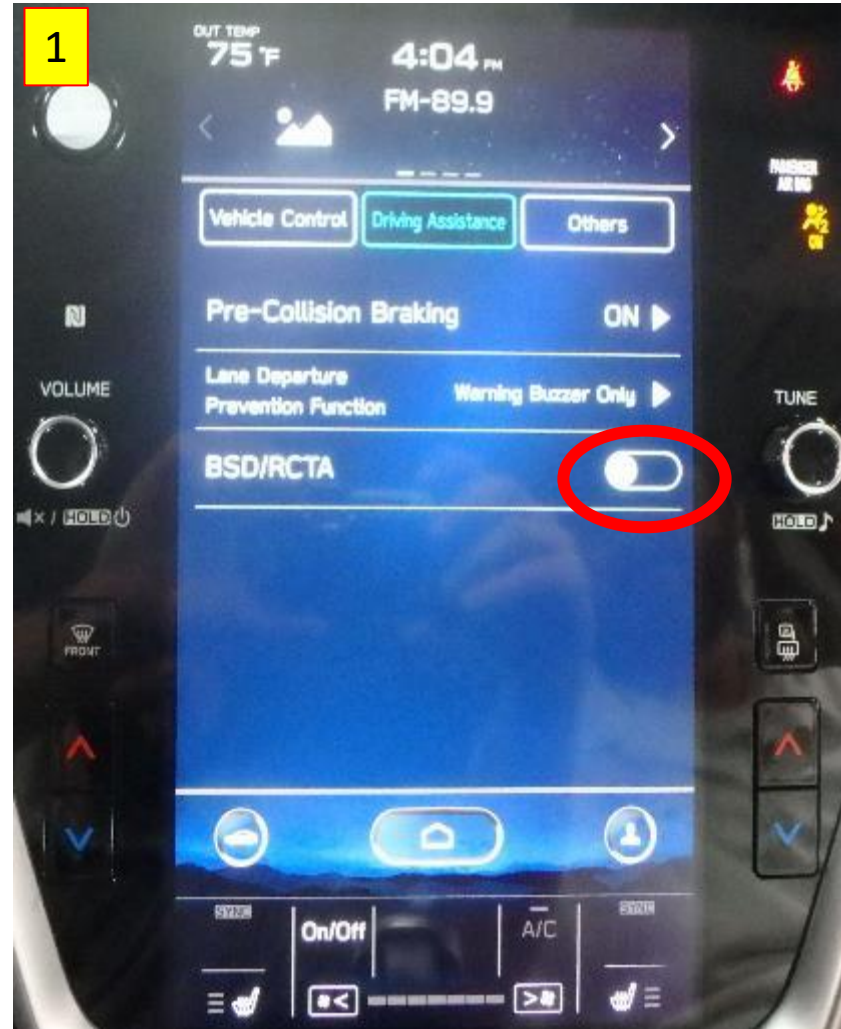
1. With ignition "On" and engine "Off", select the vehicle button at the lower LH portion of the screen.
2. Select "Driving Assistance" at the top portion of the screen.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Blind Spot Detection Verification (BSD)

1. Press the BSD ICON on the RH side of the screen. Verify the ICON turns off and the blind spot lights on the mirrors turn off.
2. Press the BSD ICON on the RH side of the screen again. Verify the BSD ICON turns on and the LH and RH mirror's BSD turn on. See slide 23 for visual aid.
3. When check is complete the BSD should be left activated.

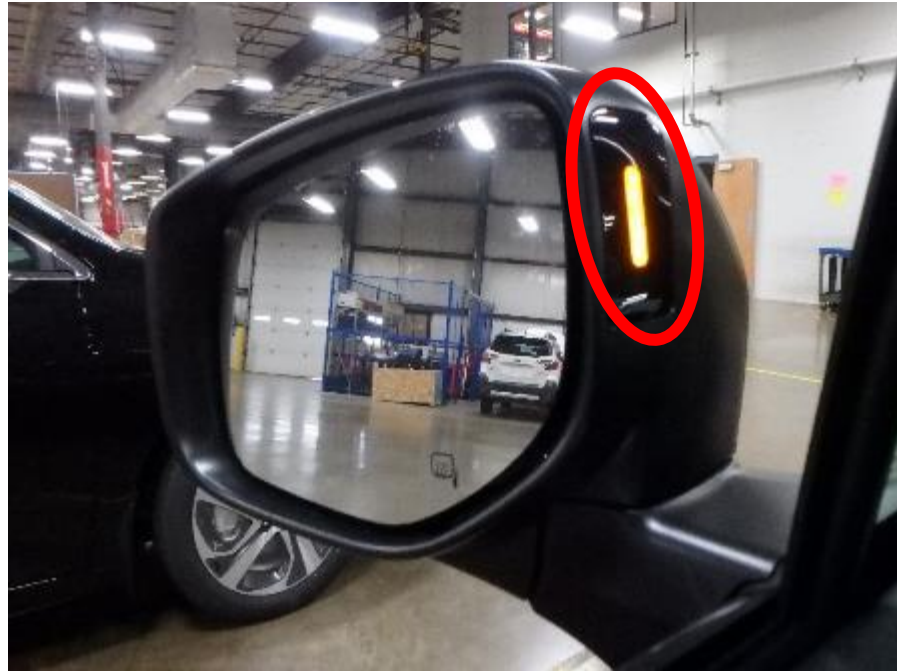


2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Blind Spot Detection Verification (BSD)

1. Press the BSD ICON on the RH side of the screen. Verify the ICON turns off and the blind spot lights on the mirrors turn off.
2. Press the BSD ICON on the RH side of the screen again. Verify the BSD ICON turns on and the LH and RH mirror's BSD turn on. See slide 23 for visual aid.
3. When check is complete the BSD should be left activated.

Blind Sport Detection Activated



Blind Sport Detection Deactivated



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

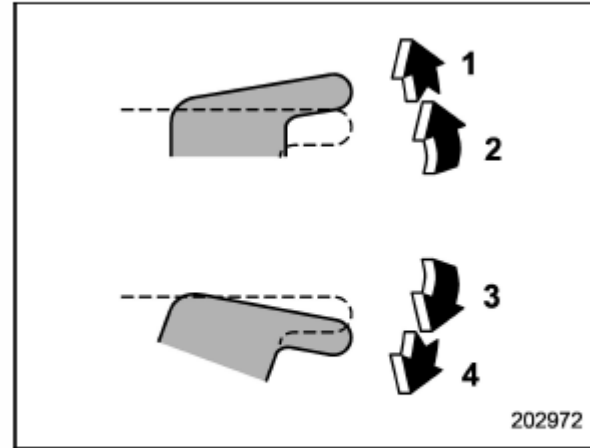
Check the Power Window Up & Down Operation

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.

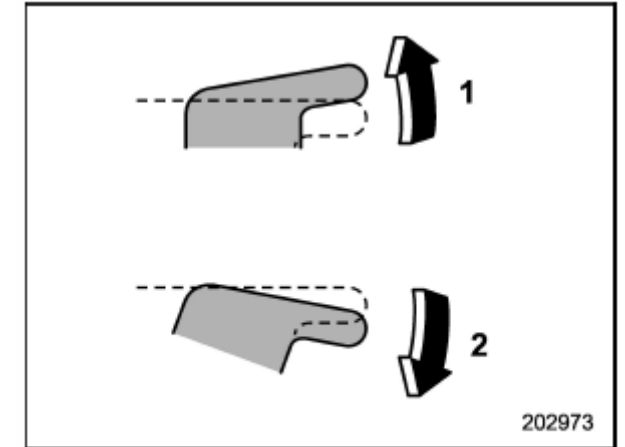
▼ Operating the window

- With one-touch auto up and down feature:^{S02AH0702}



- 1) Automatically close*
- 2) Close
- 3) Open
- 4) Automatically open*

*: To stop the window halfway, operate the switch to the opposite side.



- 1) Close
- 2) Open

MY20 Outback/Legacy Models With Power Folding Mirrors

- The following slides are applicable to models with power folding mirrors.
- DO NOT MANUALLY ADJUST MIRROR ASSEMBLIES THIS WILL CAUSE DAMAGE.
- If unsure please contact supervisor prior to installation.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Fully open LF & RF Windows

1. With the ignition on and engine off, fully open both the LF and RF windows by operating the window switch on the LF door pad.
2. Once both the LF and RF windows have been opened fully, turn ignition to the off position.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

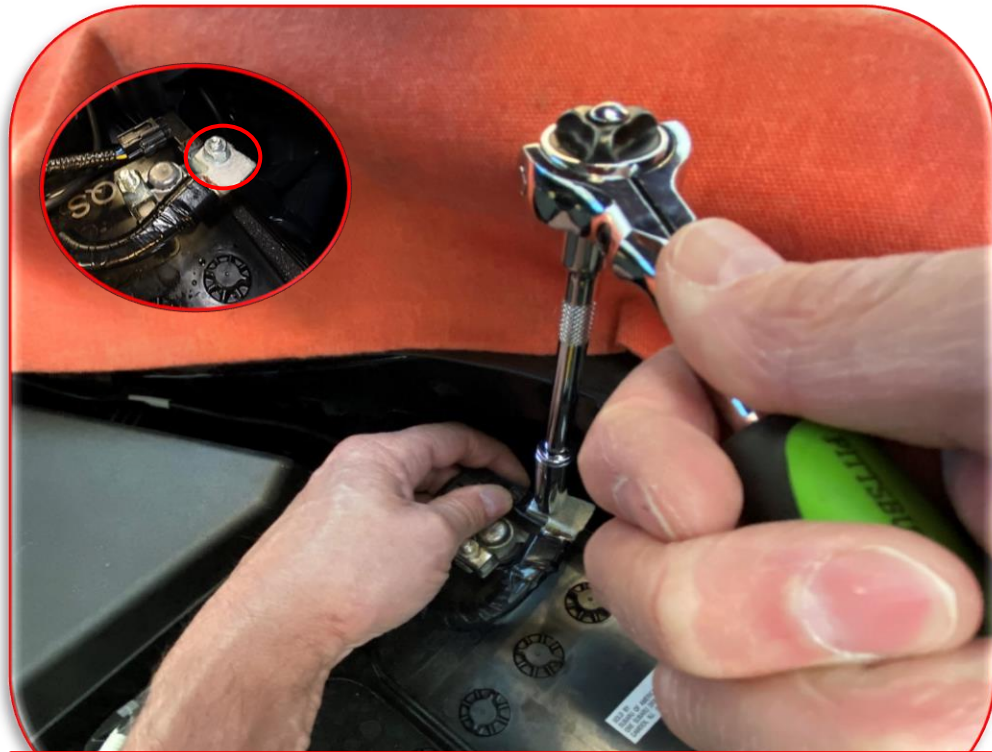
DO NOT MANUALLY ADJUST MIRROR ASSEMBLIES THIS WILL CAUSE DAMAGE.


Extend the Mirror Assemblies

- 1.) With the ignition on and engine off, extend the LH and RH Exterior mirror assemblies by pressing the power folding mirror switch on the LF door pad.
- 2.) Turn ignition off once the LH and RH mirrors have been fully extended.




2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions



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

Open the hood and use the prop rod to hold the hood in the open position. 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 negative battery stud. Do not remove negative cable from the battery post. Position / protect the negative cable so it cannot accidentally touch body ground or the negative the 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.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

LF Door Shown

Place Protection on Door

- 1) Place vehicle protection on the outer portion of the LF & RF door near the exterior mirror housing.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

RH Mirror Shown

Apply Tape To Mirror Housing

- 1) Apply masking tape to the top, bottom and outer side edges as shown to protect the LH and RH mirror housing to prevent scratching or chipping the plastic housing surfaces during mirror glass removal and reinstallation.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Removal Process

1. Move the mirror glass assembly all the way to the inside and insert a plastic trim tool into the slots between the mirror glass and the backing plate.
2. Twist the trim tool to carefully release the mirror from the outside clips.
3. Grasp the mirror glass and carefully release the remaining clips that retain the mirror glass assembly in place.
4. If equipped with heater, carefully disconnect the heater wires. (refer to next slide).
5. Follow steps 1-4 on removal of accessory mirror glass.
6. ♻️ Dispose of the O.E. mirrors responsibly.




RH Side Mirror Shown



Insert plastic trim tool in these indicated areas for removal.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror A/D Approach Mirror Wiring Preparation

1. Locate and carefully pull the OE mirror harness connector from the location shown. If needed, **use only non-modified/non-damaged plastic trim tool to expose the mirror connector.**
2. Clean away the excess foam still affixed to the pre-arranged connector and wires.
3.  Carefully remove and dispose/recycle the white dummy plug from the connectors.

RH Side Mirror Shown



Carefully pull out the OE mirror wiring harness. Do not pull the wires out of the connectors because permanent connector damage will result. Use no tools!



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Install Friction Damper and apply special grease

1. Apply mirror grease to the slot located in the RH & LH mirror housings. Clean off all surfaces of excess grease if accidentally applied to areas surrounding the target area. Do not get grease on the backing plate.

RH Mirror Shown



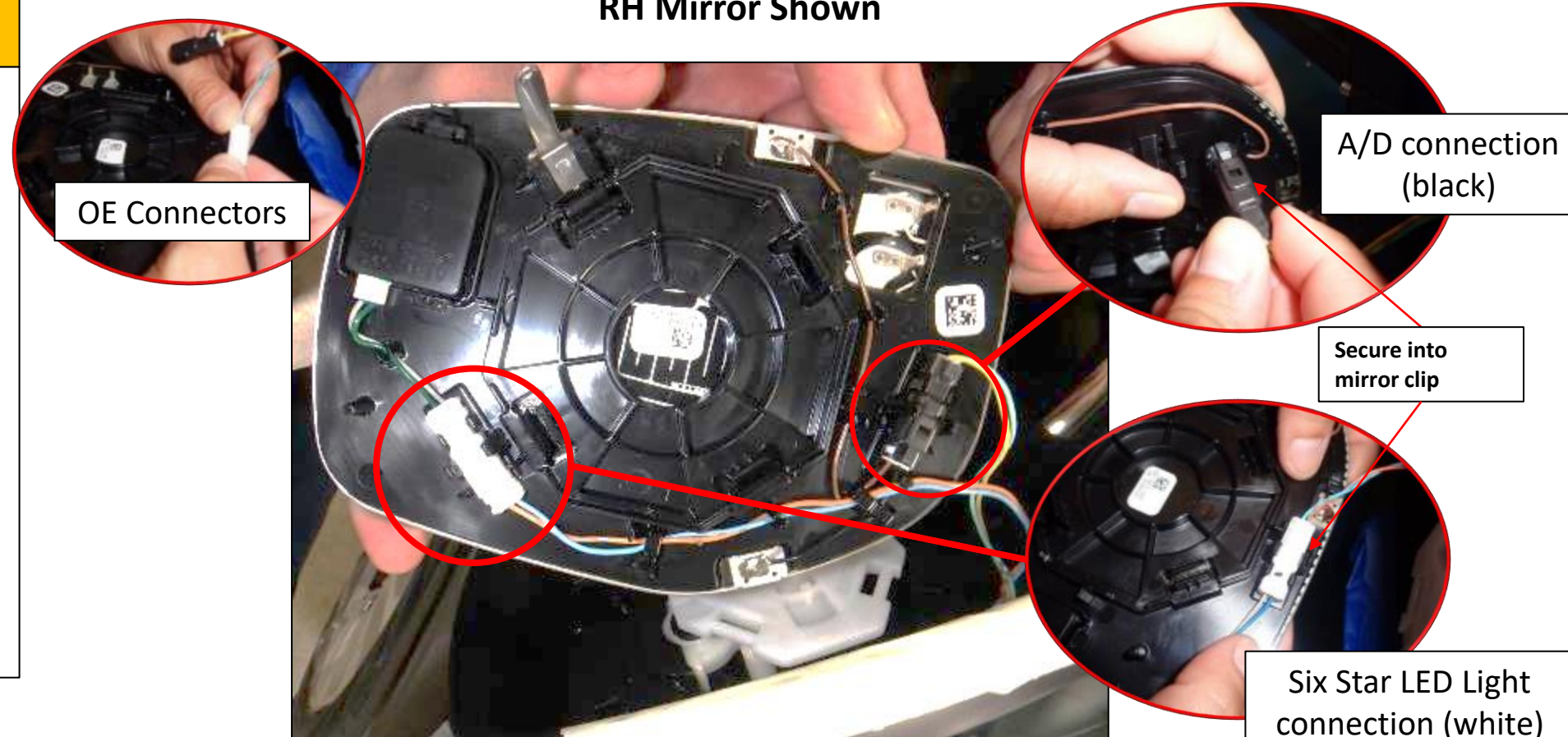
Wipe off all excess grease. Do not get grease on the backing plate.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror A/D Approach Mirror Installation

1. Connect the OE harness (black) 2-pin connector into the corresponding mirror (black) 2-pin harness connector.
2. Connect the OE harness (white) 2-pin connector into the corresponding mirror (white) 2-pin harness connector.
3. See wiring routing on the next slide.
4. Ensure both connections are secured into the mirror clip.

RH Mirror Shown



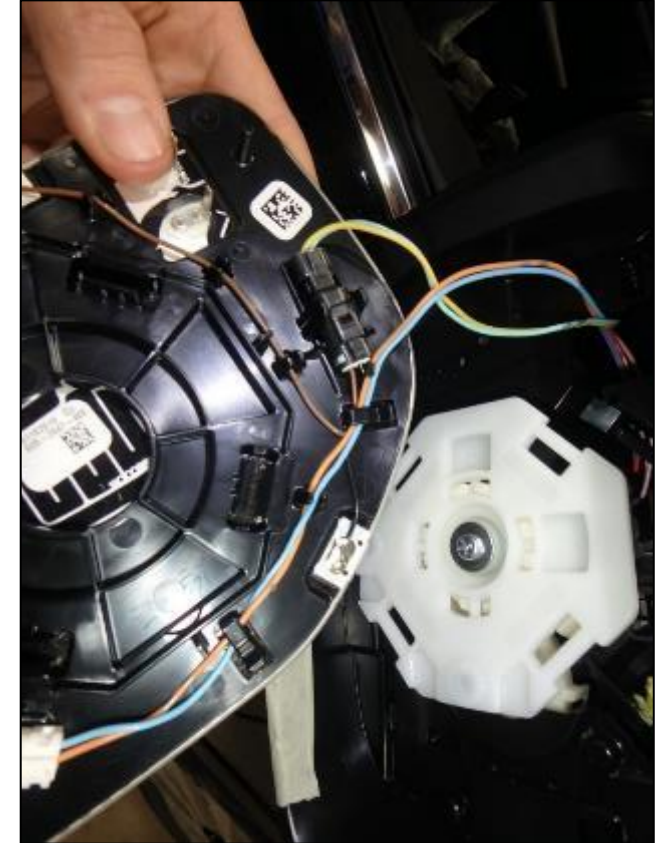
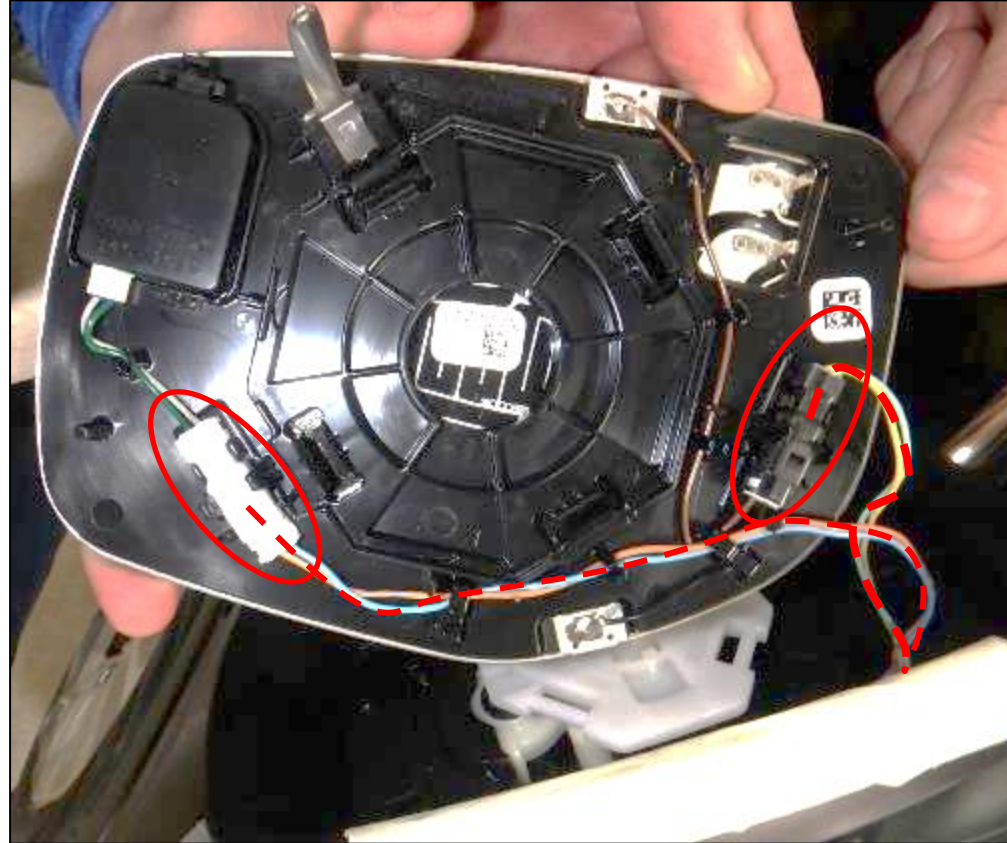
Ensure the connections are in place by the push-pull method to ensure proper wiring connection.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

RH Mirror Shown

Exterior Mirror A/D Approach Mirror Installation Wire Routing

1. Ensure both connections are secured into the mirror clip and the wires are routed in the mirror clips as shown.



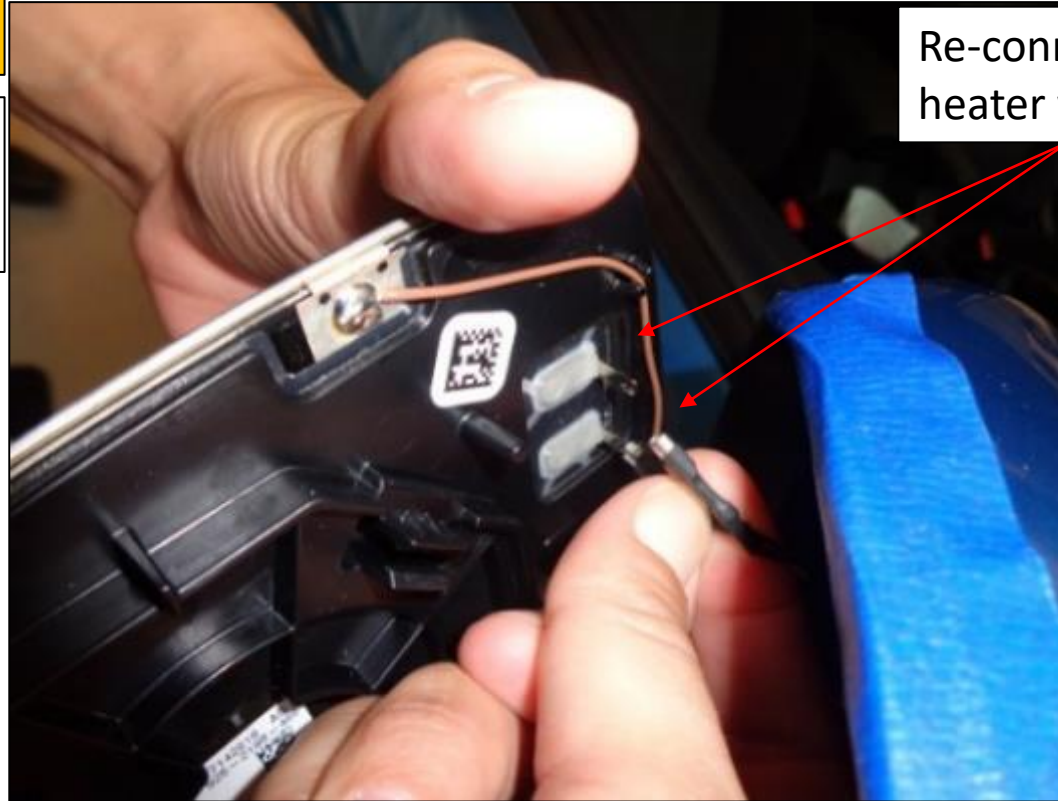
 Ensure the connections are in place by the push-pull method to ensure proper wiring connection.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Installation Process

1. If equipped, carefully connect the heated OE exterior heater circuit connectors to the A/D mirror glass.

Do not bend the terminals on the back of the mirror. Terminals must be 90° to the mirror backing.



Re-connect the heater wires

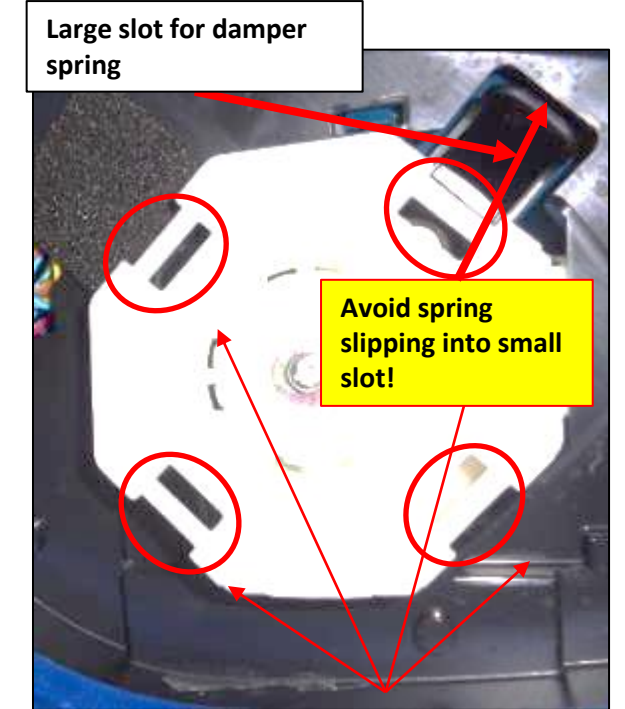
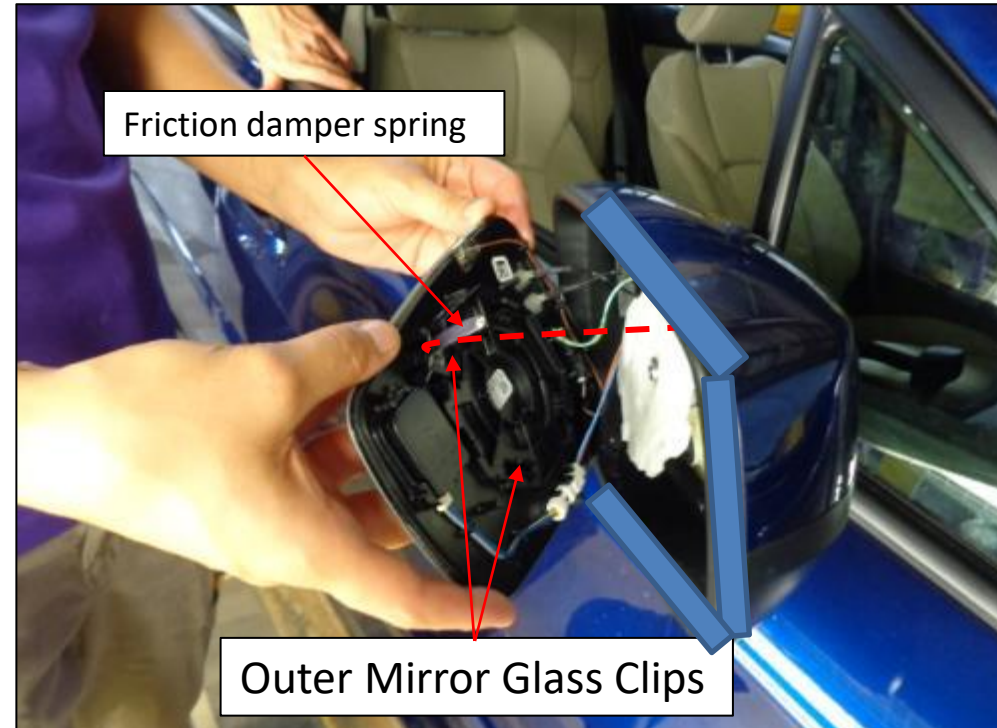


Ensure the heater connectors are fully seated onto terminals.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Installation Process

1. Carefully position the A/D Approach mirror by aligning the mirror clips with the exterior mirror Hexagonal (Stop Sign) white plastic backing plate housing. The A/D Approach mirror glass assembly has (4) clips that open to clip onto the (4) clip holders located on the Hexagonal (Stop Sign) white plastic housing.
2. Align the mirror carefully, ensuring the friction damper fits into the large slot, not the small slot above the large slot. Firmly press the mirror in place. You will feel all (4) clips engage.



Backing Plate Housing clip holders

STOP Ensure the friction damper spring is inserted in the large slot. If installed in the smaller slot the mirror movement will be restricted.

STOP Ensure the wiring is not pinched between mirror glass & backing plate or overlapping on the areas where the mirror glass is installed on the backing plate to prevent pinching wires and potential wiring damage. Ensure the friction damper spring is inserted in the large slot. If installed in the smaller slot the mirror movement will be restricted.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Exterior Mirror Glass Installation Process

1. Carefully press the mirror glass into place using even pressure on the center of the glass. Using the palm of your hand may help to install the mirror to the backing plate. While using your opposite hand to hold the housing in place. Pushing the housing back too far can cause damage.
2. Verify the mirror glass is properly seated by carefully pulling at all four corners of the glass. Avoid moving the mirror glass to extreme angles when checking.
3. Once installed, remove the protective tape from the mirror housing.
4. Clean the mirror housing and glass with alcohol and a clean towel.
5. Repeat slides 28-36 for the opposite side.

LH Mirror Shown



Avoid moving the mirror glass to extreme angles when installing the A/D Approach Mirror to prevent adjustment pivot damages.

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions



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 also 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

- Ensure no scratches or damages to the outer mirror upper and lower covers.
- Turn the Ignition to the “ON” position and cover the interior mirror light sensor and ensure both exterior mirrors dim in unison with the interior mirror.
- With your foot on the brake pedal, put the gear selector in “R” mode and ensure the mirrors return to the not dimmed mode.
- Using the mirror switch on the drivers front door adjust both mirrors in all extreme positions up/down and left/right. Ensure the exterior mirrors reposition freely.
- Press the “Power Folding Mirror” switch located on the LF door pad above the “Mirror Adjustment” switch. Verify both exterior mirror assemblies fold inward. Press the “Power Folding Mirror” switch again and both exterior mirror assemblies fold outward to a “Normal Driving Condition”. Press the “Power Folding Mirror” switch again and both exterior mirror assemblies fold inward (final position).
- Activate heated mirror circuit and verify the heated elements operate.
- Verify BSD is operational by following the steps on slides 43-44.
- Operate the turn signal stalk and observe the turn signal mirror indicators.
- Verify power window “Auto up and down” feature is reinitialized if needed.
- Ensure the approach light illuminates on both mirrors when door is opened.
- **Limited/Touring/Limited XT/Touring XT Models Only;** *With ignition “ON” engine “OFF”, place your foot firmly on the brake pedal, put the gear selector in “R” mode and ensure the passenger mirror tilts “down” and when taken out of reverse returns to the same mirror position. Using the Driver’s Seat Memory Function switches located on the Driver’s door set the set adjustment for switch (1) and another seating position and mirror position for switch (2) and ensure the Driver’s and passenger mirrors change adjustment when the switches are selected separately.*
- **2020MY Outback (GC7) Touring XT Models:** *Are factory equipped with automatic folding mirrors to verify operation turn the ignition “ON” and engine “OFF”, use the mirror folding switch on the Driver’s side door master switch panel and operate the mirrors to fold in and then out. Ensure proper operation of both the LH and RH mirror assemblies.*

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Legacy/Outback models equipped with factory installed Power Folding Mirrors that require additional instructions to complete the exterior mirror verification “check your work” validation process.

Factory Installed Power Folding Mirrors

1. Ensure both front doors are closed.
2. Press the “Ignition Push Button” twice.
3. Press the “Power Folding Mirror” switch located on the LF door pad above the “Mirror Adjustment” switch.
4. Verify both exterior mirror assemblies fold inward.
5. Press the “Power Folding Mirror” switch again and both exterior mirror assemblies will fold outward to a “Normal Driving Condition” position.
6. Press the “Power Folding Mirror” switch again and observe the mirror assemblies fold inward (Inward is the final position for the mirror assemblies).



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

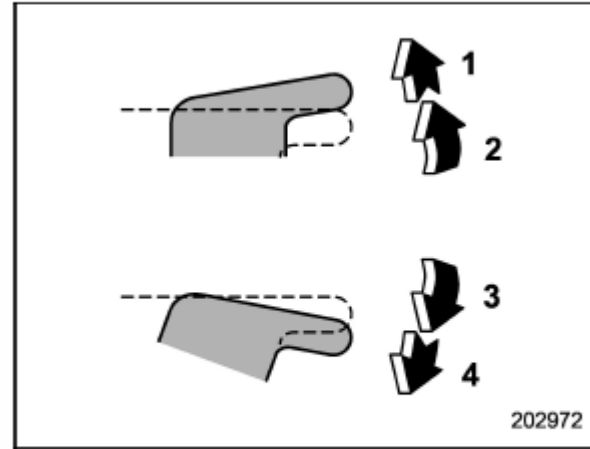
Check the Power Window Up & Down Operation

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.

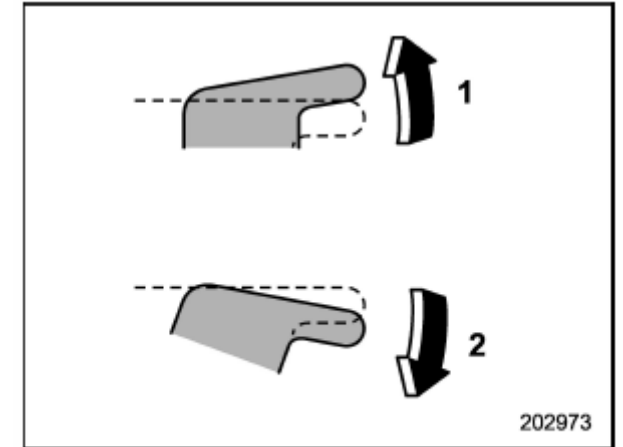
▼ Operating the window

- With one-touch auto up and down feature:



- 1) Automatically close*
- 2) Close
- 3) Open
- 4) Automatically open*

*: To stop the window halfway, operate the switch to the opposite side.

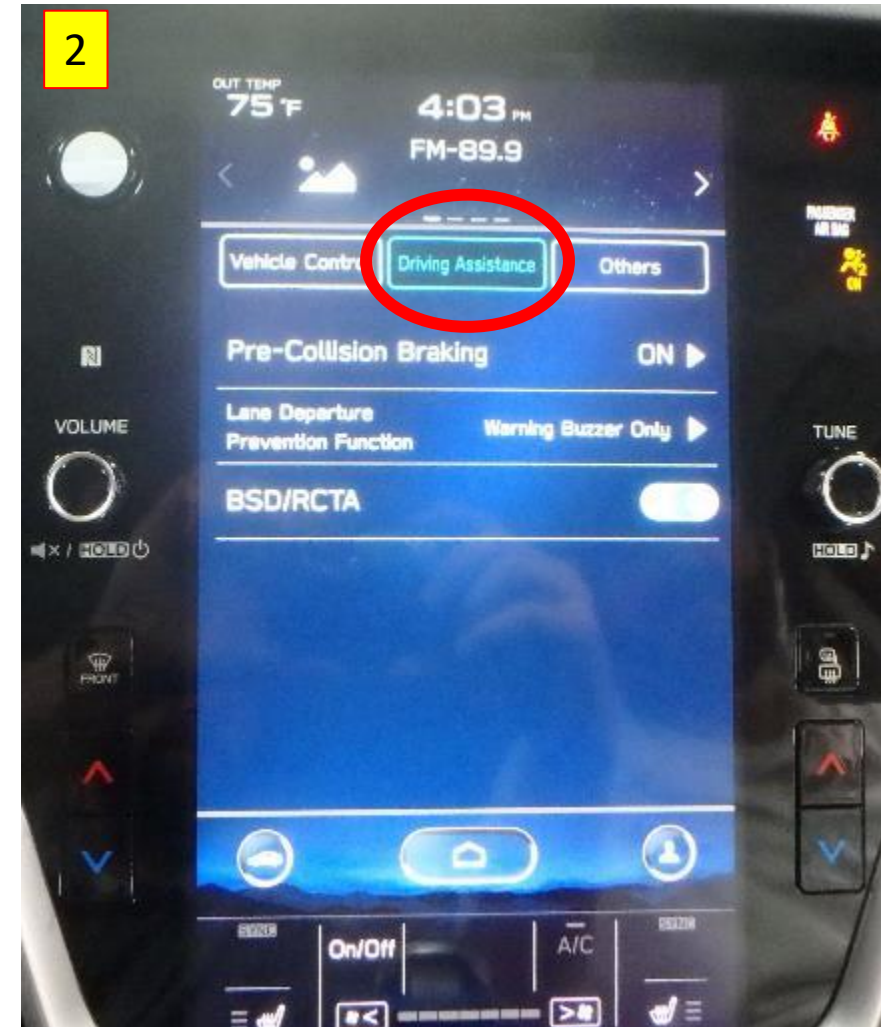
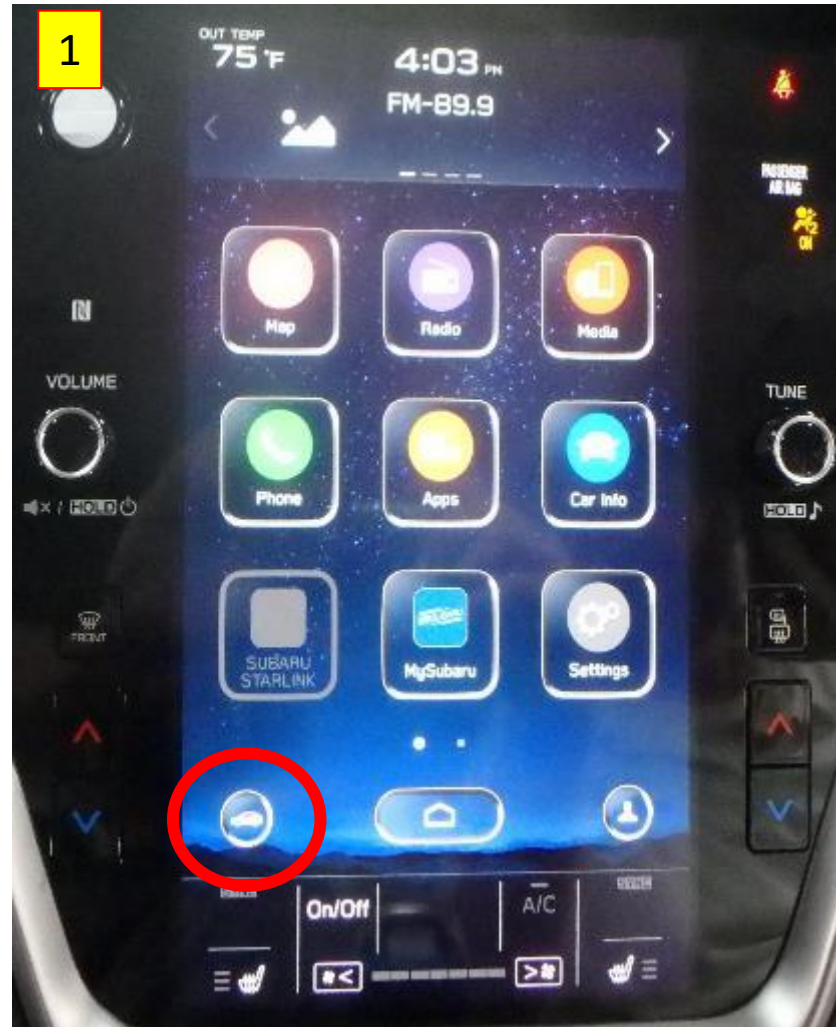


- 1) Close
- 2) Open

2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Blind Spot Detection Verification (BSD)

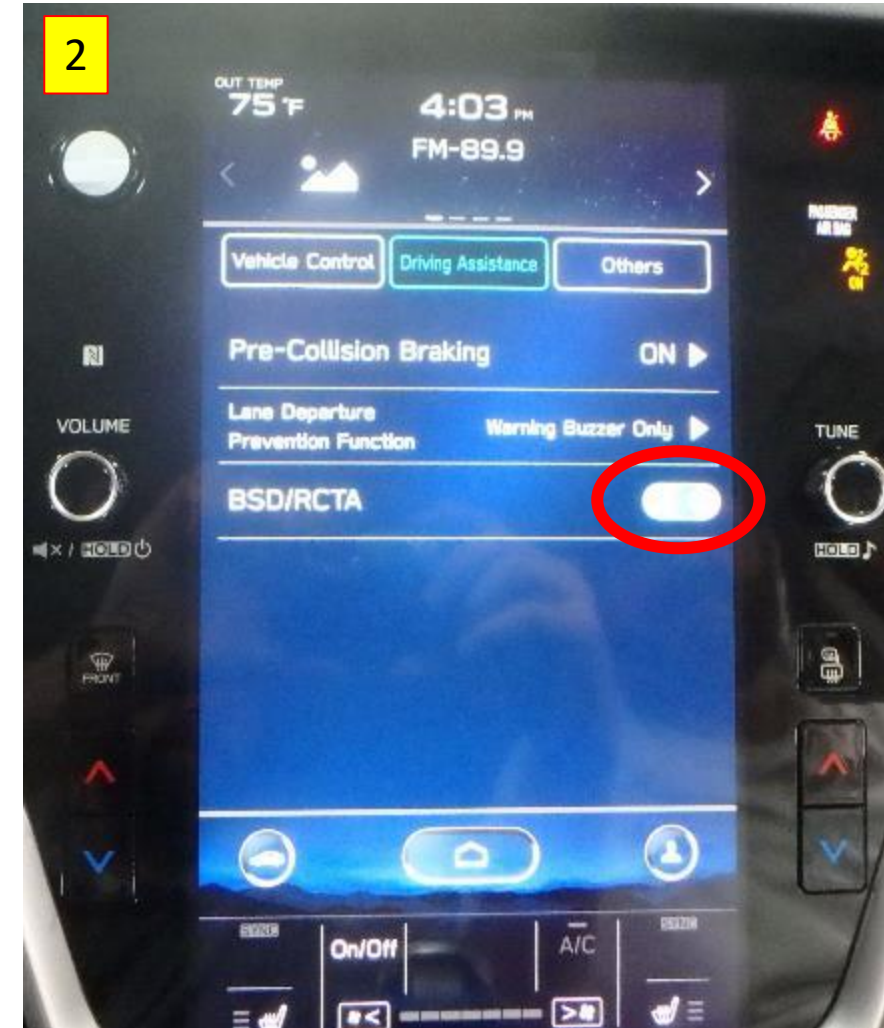
1. With ignition "On" and engine "Off", select the vehicle button at the lower LH portion of the screen.
2. Select "Driving Assistance" at the top portion of the screen.



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Blind Spot Detection Verification (BSD)

1. Press the BSD ICON on the RH side of the screen. Verify the ICON turns off and the blind spot lights on the mirrors turn off.
2. Press the BSD ICON on the RH side of the screen again. Verify the BSD ICON turns on and the LH and RH mirror's BSD turn on. See slide 23 for visual aid.
3. When check is complete the BSD should be left activated.



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Blind Spot Detection Verification (BSD)

1. Press the BSD ICON on the RH side of the screen. Verify the ICON turns off and the blind spot lights on the mirrors turn off.
2. Press the BSD ICON on the RH side of the screen again. Verify the BSD ICON turns on and the LH and RH mirror's BSD turn on. See slide 23 for visual aid.
3. When check is complete the BSD should be left activated.

Blind Sport Detection Activated



Blind Sport Detection Deactivated



2020-2022MY Legacy & Outback Exterior Auto-Dimming Approach Light Mirror Installation Instructions

Document History

<u>Revision</u>	<u>Date</u>	<u>Slide#</u>	<u>Description</u>	<u>Author</u>
A	9/6/2019		Original Release	CR
B	10/02/2019	5,19,29,39	Updated Battery Disconnect and Reconnect information.	CR
C	1/22/2020	All Slides	Updated headers and rearranged information order within slides.	CR
D	02/25/2020	8,21,30,41	Updated Battery Disconnect and Reconnect information.	CR
E	2/26/2021	All	Update Model Year Application	RM