ATTENTION:
GENERAL MANAGER ❑
PARTS MANAGER ❑
CLAIMS PERSONNEL ❑
SERVICE MANAGER ❑

IMPORTANT - All Service Personnel Should Read and Initial in the boxes provided, right.

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SUBARU

QUALITY DRIVEN® SERVICE

SERVICE BULLETIN

APPLICABILITY: 2015-18MY Legacy & Outback
2015-18MY WRX With CVT

NUMBER: 06-87-22R
DATE: 11/4/22
REVISED: 06/29/23

SUBJECT: Electric Parking Brake Connector Lock Tab / Warranty Extension

INTRODUCTION:

In the interest of customer satisfaction, Subaru of America, Inc. (SOA) is extending the New Car Limited Warranty coverage for the electronic connector lock tab for the Electric Parking Brake (EPB) assembly used in the above listed models and model years from (3) years or thirty-six thousand (36,000) miles (whichever comes first) to (15) years / unlimited mileage. This change is in response to an identified condition of a possible crack formation on the electronic connector lock tabs. This can cause an unsecure harness connection the EPB actuator resulting in illumination of the EPB warning on the combination meter. An added retaining clip has been developed to further secure the connection. If a fault source is found to be result of a cracked EPB connector tab, follow the inspection and repair procedures outlined withing this bulletin.

NOTE: ALWAYS perform a Vehicle Coverage Inquiry on Subarunet to determine eligibility for the Warranty Extension prior to proceeding with any inspection or repairs. See sample inquiry result below.

Extensions

Effective Date	Expiration Date	Coverage Type - Description	Addl Miles	Addl Months	Status

CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.
Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.

Subaru of America, Inc. is ISO 14001 Compliant
ISO 14001 is 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.

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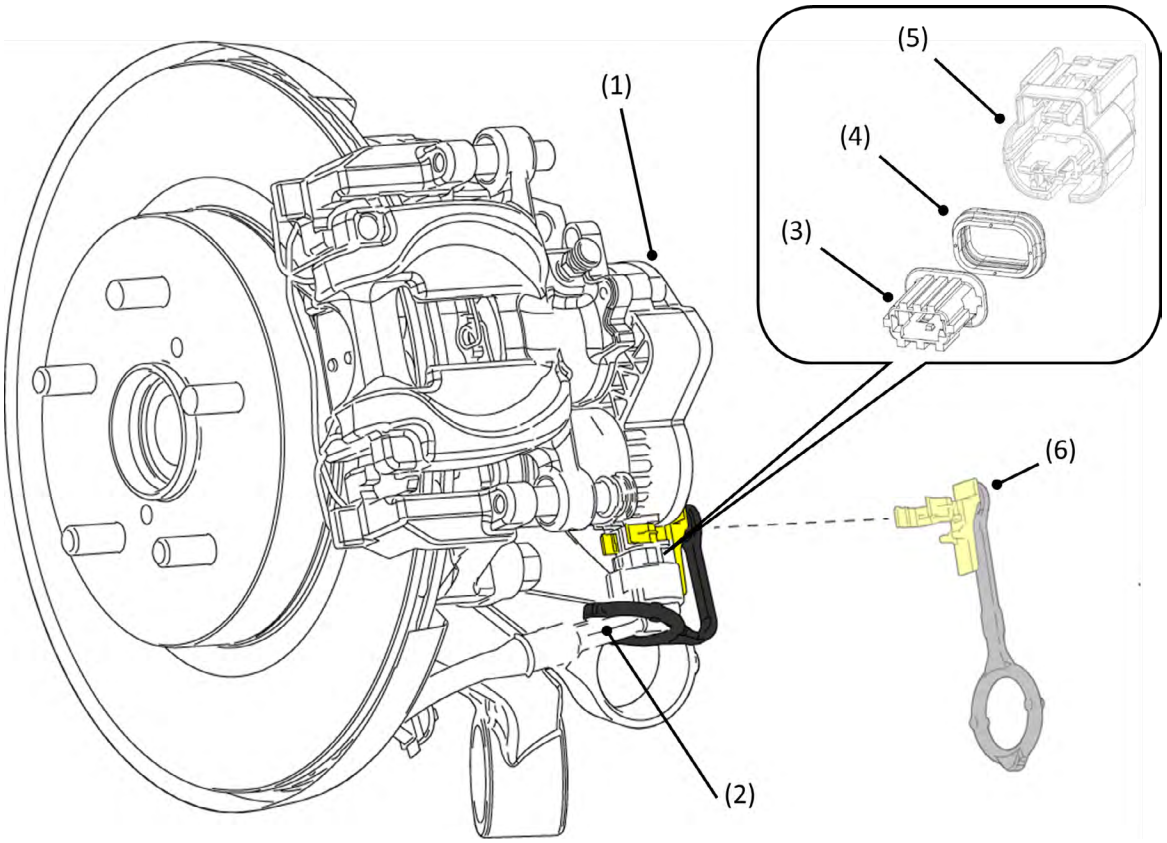
Description of Components:



1. Electronic Parking Brake (EPB) Actuator
2. Electronic Parking Brake (EPB) Harness
3. Terminal Position Assurance (TPA)
4. Ring Seal
5. Electronic Parking Brake (EPB) Electrical Connector
6. Retaining Clip

PART INFORMATION:

Part Description	Part Number	Qty
CLIP EPB KIT	X9904AL110	1
Niglube RX-2	000041000	As Needed

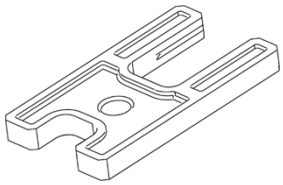
REMINDER: Always order the most up-to-date replacement parts based on the specific VIN being repaired.

Continued...

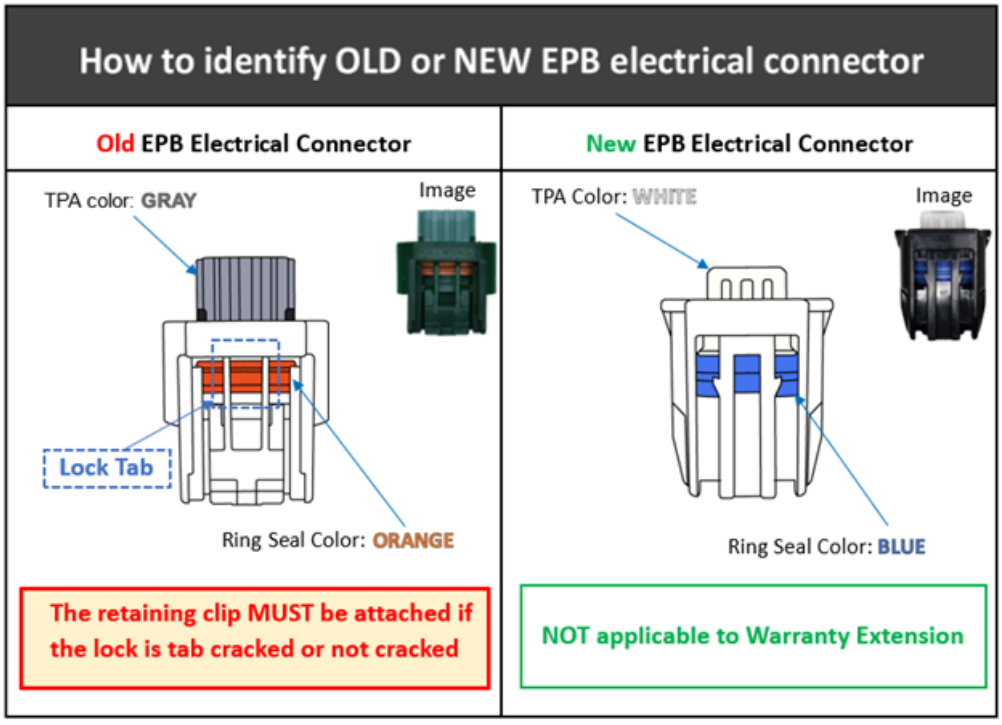
NOTE: ConocPhillips Multiplex Red #2 may be used a suitable equivalent to Niglube RX-2

KIT Breakdown		
Part Description	**Image**	**Qty**
Retaining Clip **NOTE:** Replacement retaining clips can be ordered separately using p.n. 99046AL010.		**2**
TPA (Terminal Position Assurance)		**2**
Ring Seal		**2**

Required Tools:

Part Name	Part Number	Image
Inspection Gauge	99804AL000	

NOTE: This essential tool is limited two per retailer.



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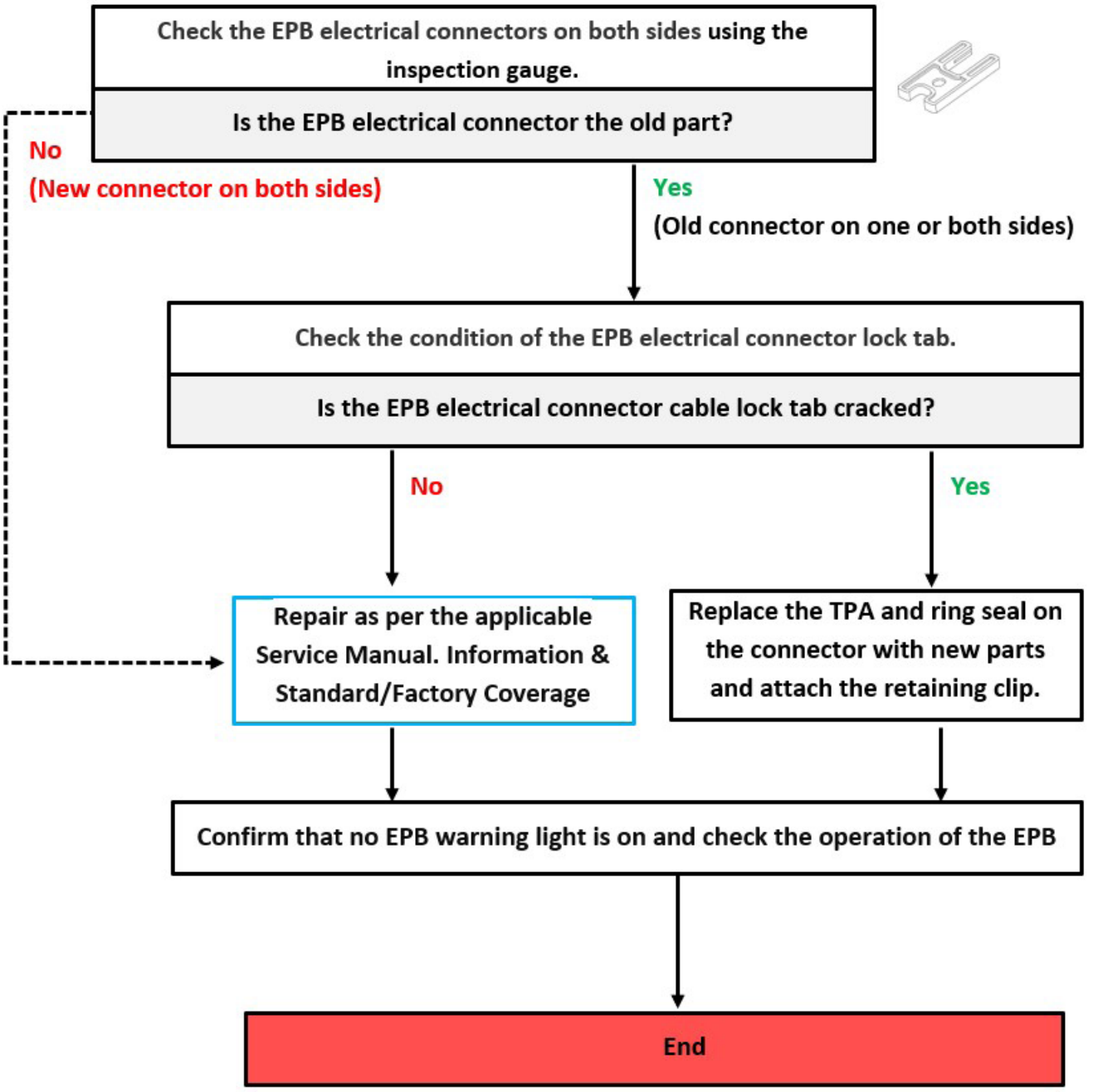
Work Procedure Flow Chart:



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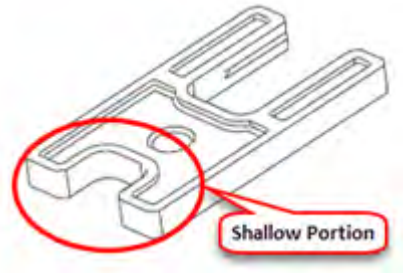
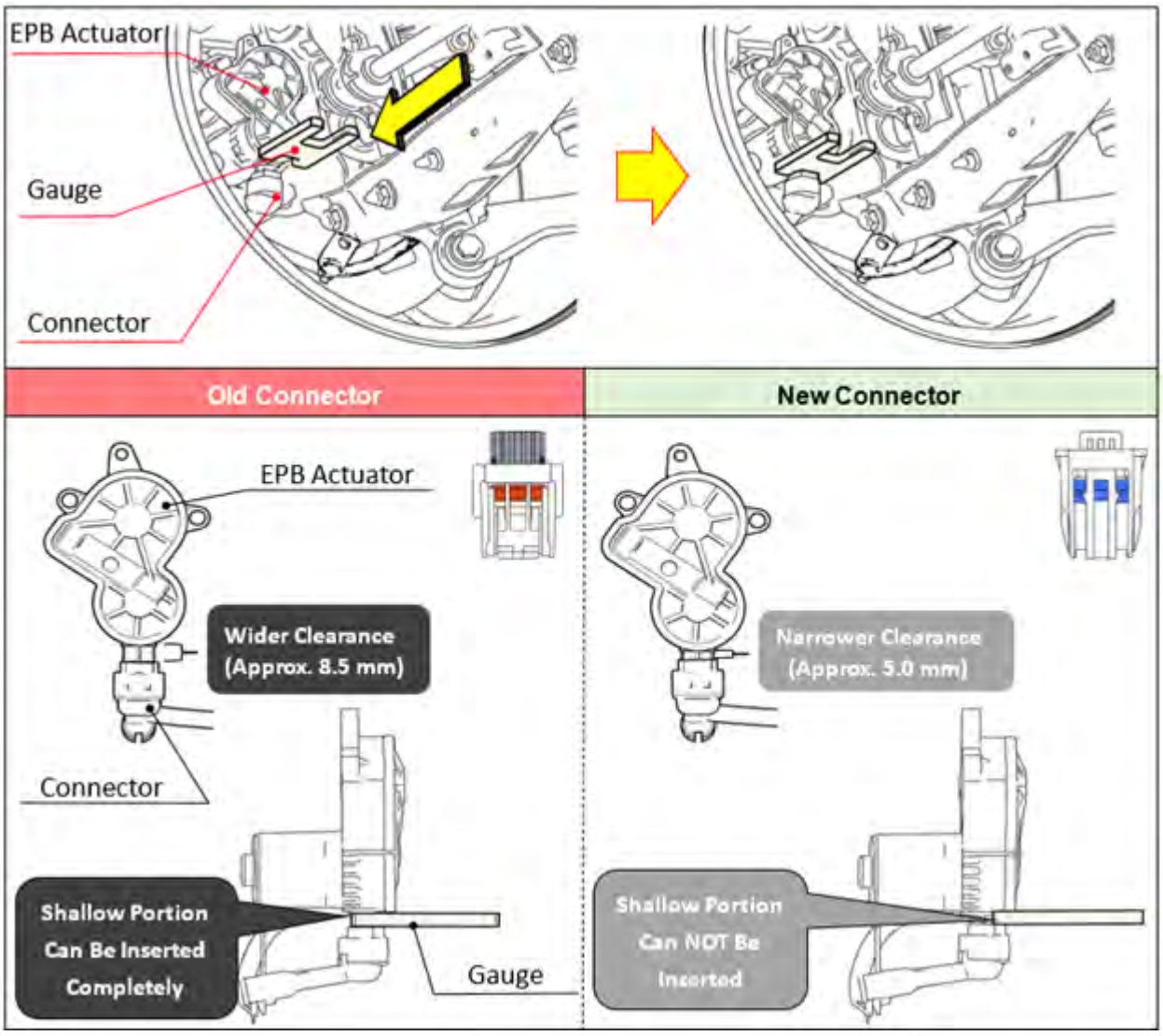
SERVICE PROCEDURE:

IMPORTANT: ONLY the OLD connectors are covered under the Warranty Extension.

STEP 1: CARFULLY prepare the vehicle lift and raise the vehicle.

STEP 2: Using the inspection gauge **(p.n. 99804AL000)** pictured to the right, insert the shallow portion between the EPB electrical connector connection and the EPB actuator. See the image below.

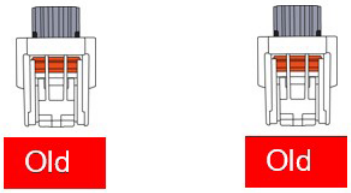
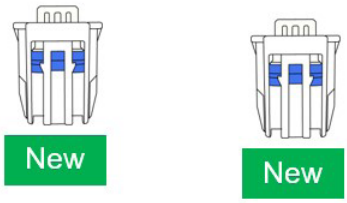
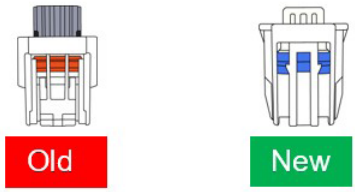




IMPORTANT NOTE: It is possible to have both old and new connectors fitted to the vehicle.

Continued...

STEP 3: Using the inspection results from STEP 2, refer to the table below to confirm the next course of action. Perform further visual inspection of the connectors if needed.

Old Connector on BOTH sides 	**Attach The Retaining Clip On Each Side** **Proceed to STEP 4**
New Connector Fitted To Both Sides 	**Perform Diagnosis And Repair As Per The Applicable Service Manual.** **NOT COVERED UNDER WARRANTY EXTENTION**
Old Connector Fitted To One Side ONLY 	**Attach The Retaining Clip On The Side Of The Old Connector.** **Proceed to STEP 4**

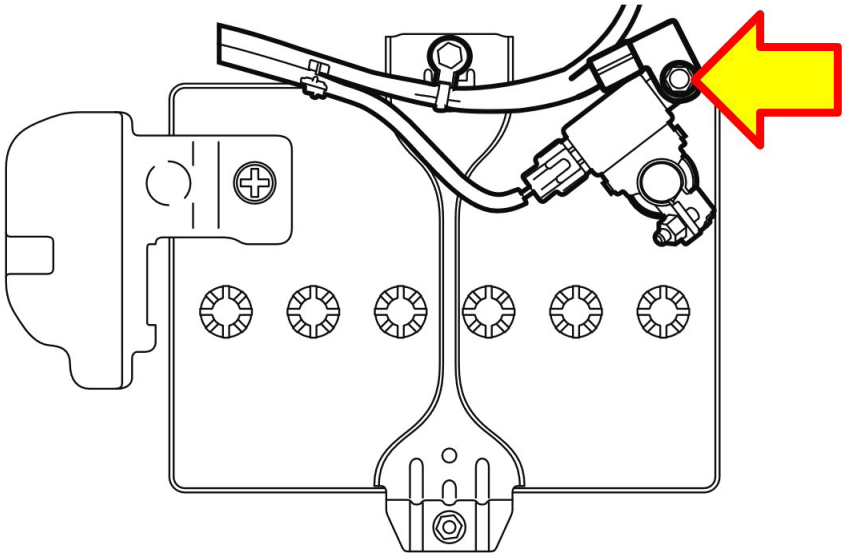
STEP 4: Lower the vehicle.

NOTES:

- For vehicles fitted with one or more old connector, refer to the following STEPS and apply the procedures to the affected connector.
- Refer to the applicable Service Manual and review: General Description > Repair Contents > Action required before & after Battery Disconnect. Additionally, record any stored seat position(s) before proceeding. Relearn any seat position memory after work is complete. If the power rear gate (PRG) height has been customized, that position must also be noted and relearned.

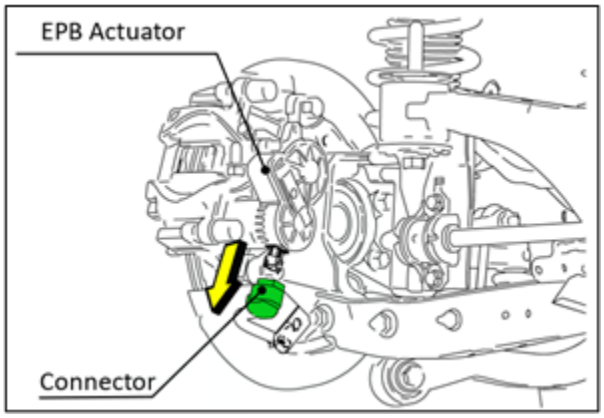
Continued...

STEP 5: Refer to the applicable Service Manual and review: General Description > Repair Contents > Action required before & after Battery Disconnect. Additionally, record any stored seat position(s) before proceeding. Relearn any seat position memory after work is complete. If the power rear gate (PRG) height has been customized, that position must also be noted and relearned. **CAREFULLY** disconnect the ground connection from the battery sensor.

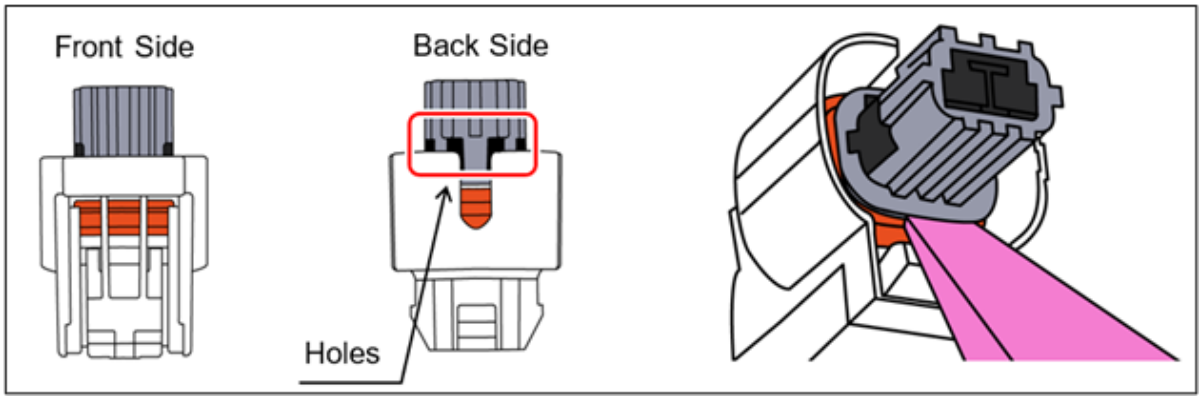


STEP 6: Raise the vehicle.

STEP 7: Remove the rear wheel fitted on the side(s) fitted with the old connectors.



STEP 8: While facing the front side of the connector, CAREFULLY use plastic trim tool to remove the Terminal Position Assurance (TPA) and discard it.



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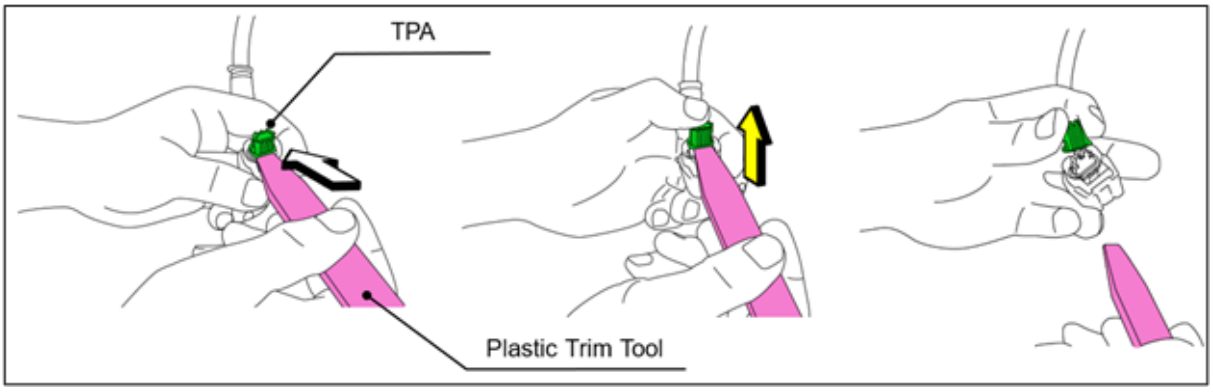
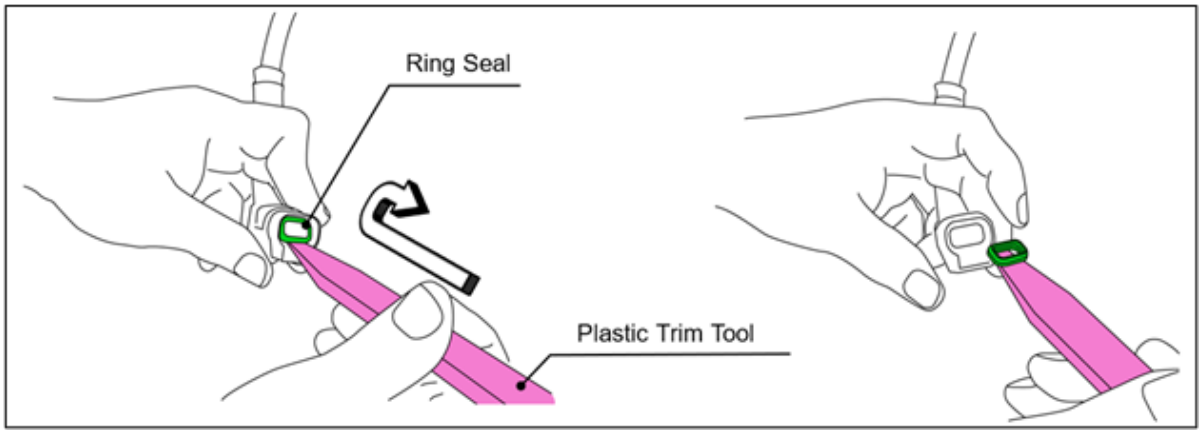
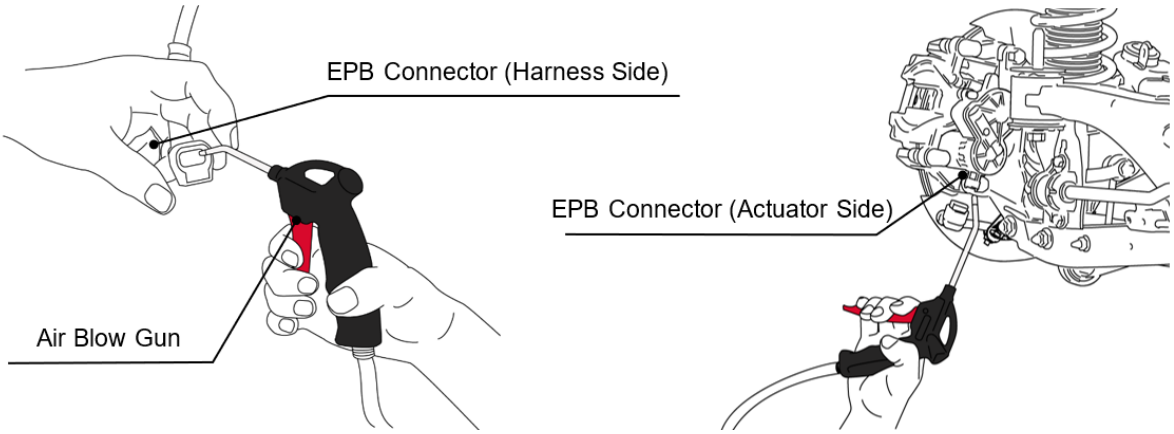


STEP 9: Remove the ring seal from the connector and discard it.



STEP 10: Using an air blow gun, remove any dust or contaminates from both the male and female sides of the connection.



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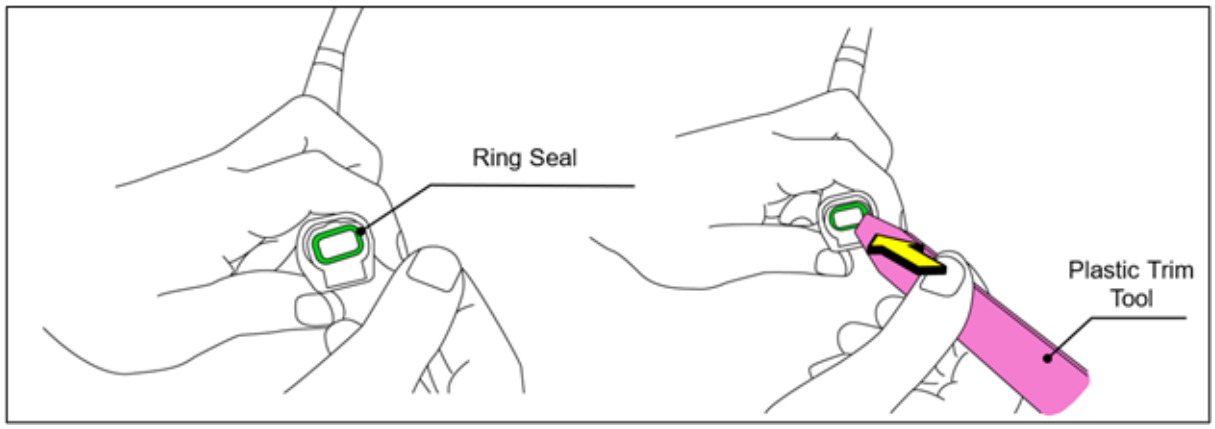
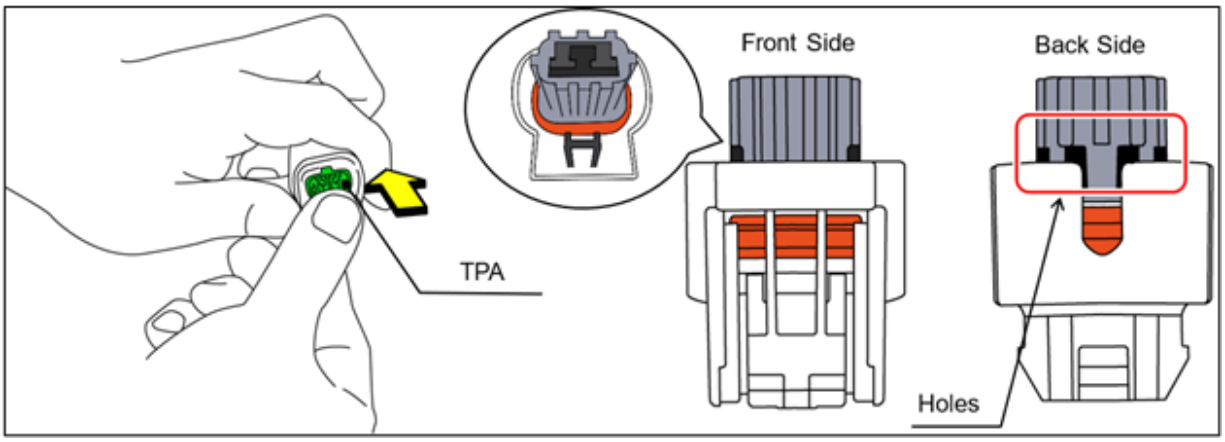
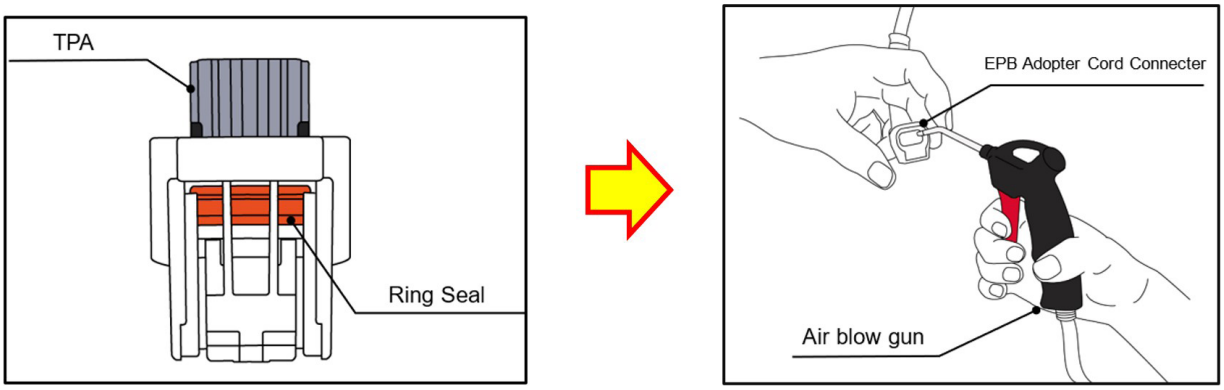
STEP 11: Install the new ring seal to the connector using a plastic trim tool. The ring seal is not specific to one side and can be installed in either direction.



STEP 12: CARFULLY install the new TPA positioned to the correct direction as indicated in the image below.



STEP 13: Confirm the ring seal and TPA are installed correctly. Use an air blow gun to remove any dust and / or contaminates.



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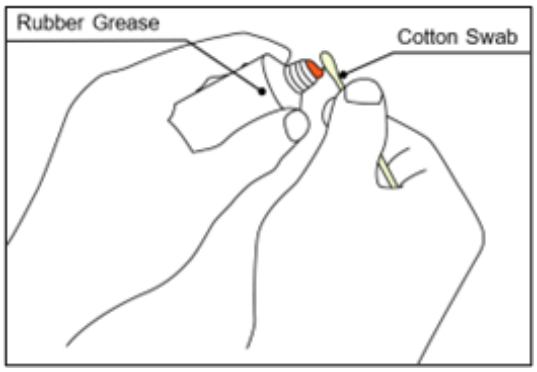
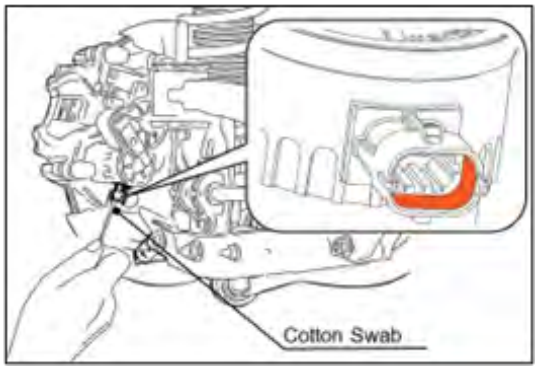
STEP 14: Apply a small amount of Nippon Niglube RX-2 (**p.n. 000041000**) or Conoco Philips Multiplex Red #3 (equivalent) to a cotton swab.



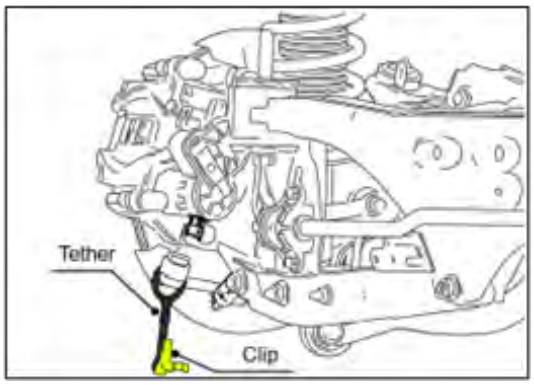
STEP 15: Apply a thin layer of lubrication to the EPB actuator connection. Confirm it is applied no more than 5mm deep from the edge of the connector. Refer to the area indicated in orange color in the image to the right.

CAUTION: Do not allow the lubrication to come in contact with the electrical terminals. Do not push any lubrication further into the connection passed 5mm from the connector edge.

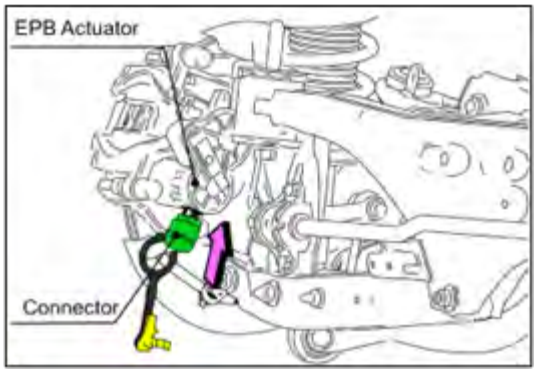


STEP 16: Route the EPB electrical connector through the loop portion of the tether on the retaining clip. The Clip portion should be facing the center of the vehicle. Refer to the image to the right.

CAUTION: Confirm the tether is not twisted.

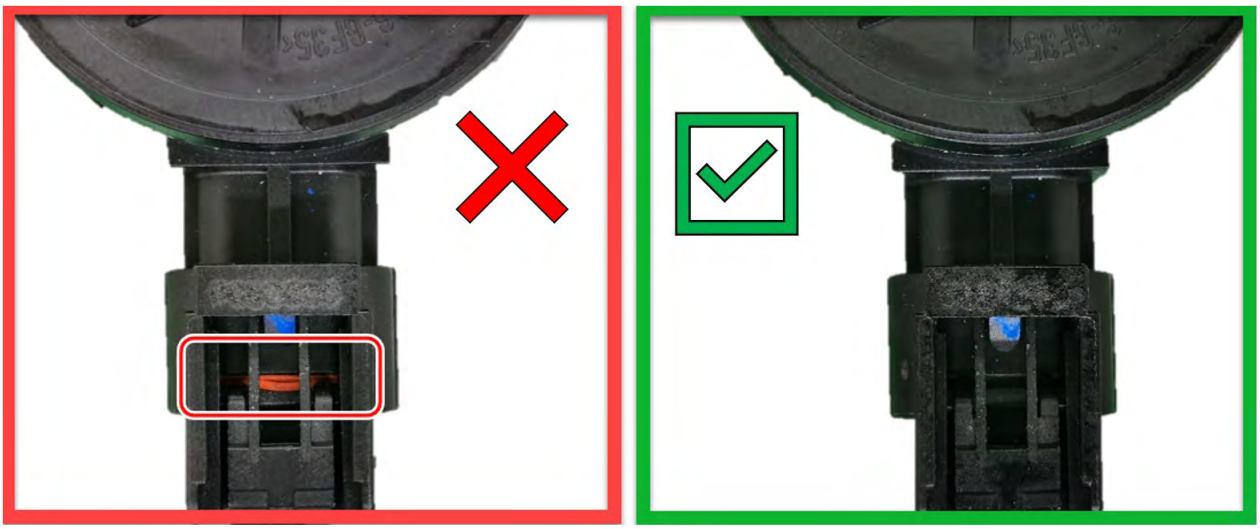


STEP 17: Reconnect the EPB electrical connector to the EPB actuator.

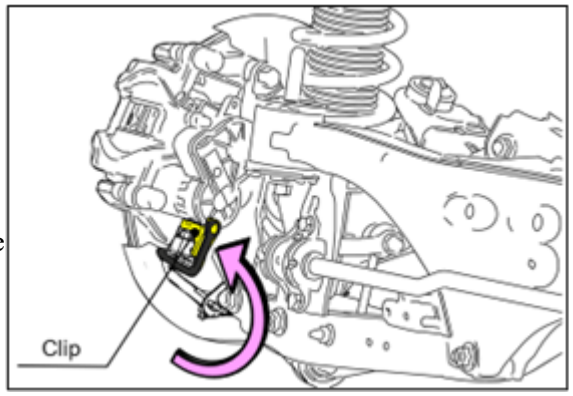


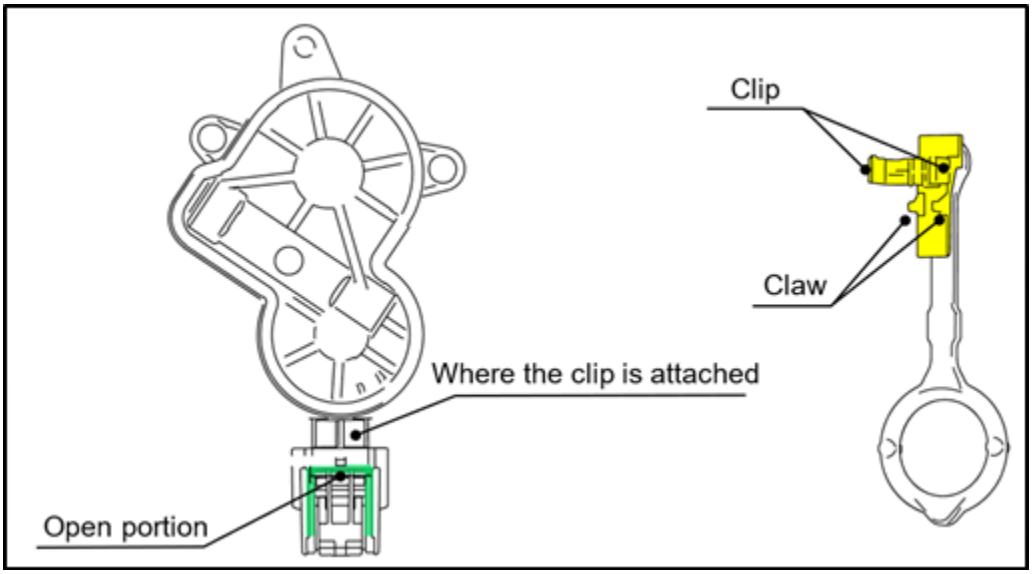
Continued...

STEP 18: Remove the connector and inspect the ring seal. Confirm the seal is not pinched or misaligned in anyway. If proper alignment is found, reinstall the connector. If the seal is pinched or misaligned in anyway, repair the seal alignment, recheck, and install the connector.



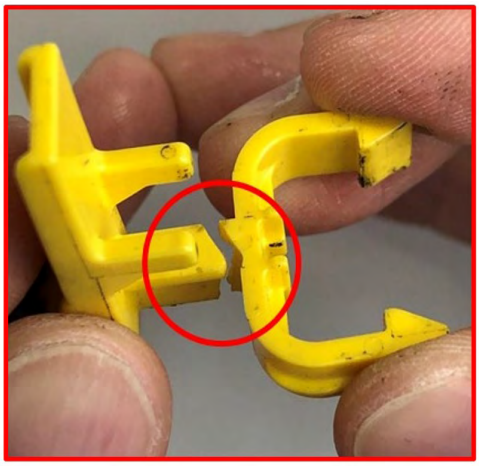
STEP 19: Attach the retaining clip between the EPB electrical connector and the EPB actuator. Confirm the two claws located on the clip, install securely to the the open portion of the connector. This will add increased security to the connection.

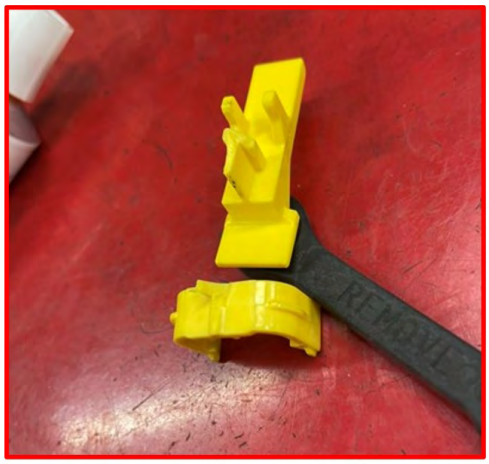




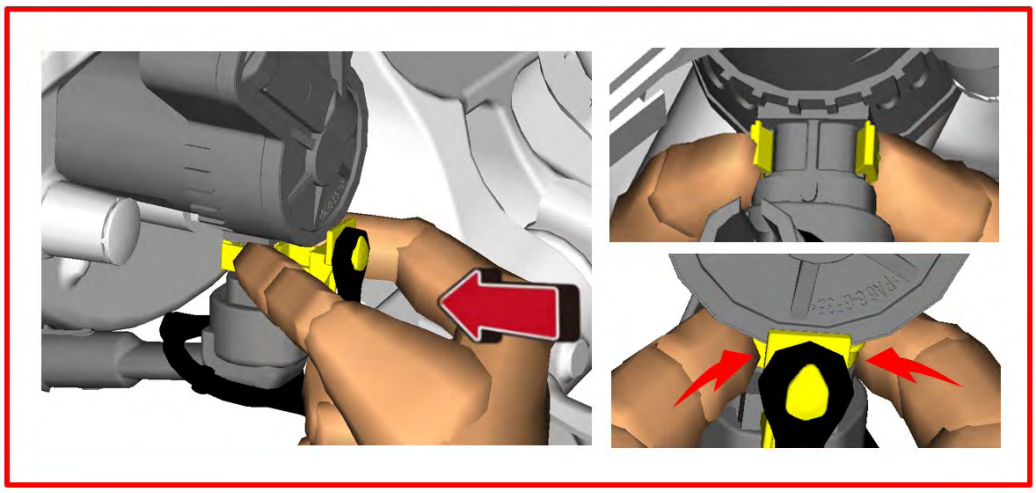
Continued...

CAUTION: The retaining clip can be broken when applying strong impact force during attaching or detaching. See images below.

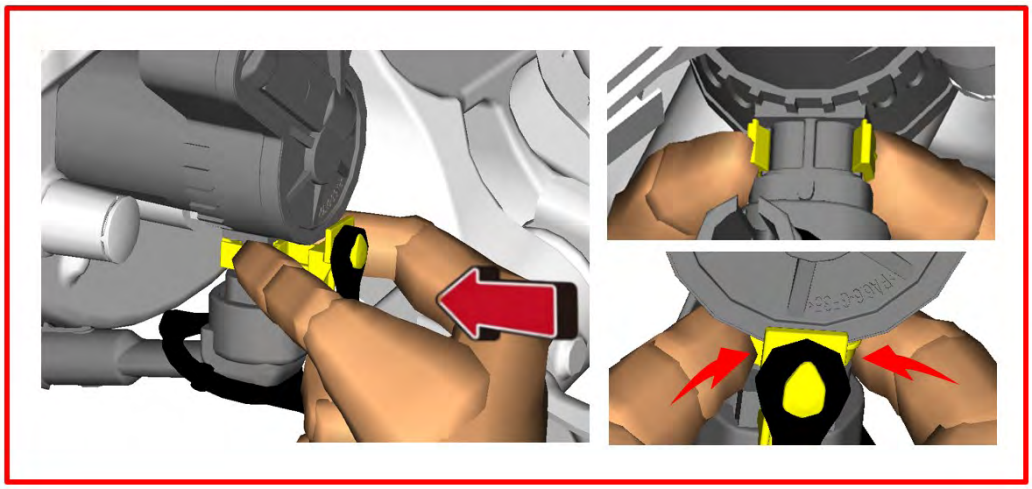




In order to prevent such breakage, when attaching the clip, slightly pinch the clip arms with both fingers and push them straight as shown in the illustrations below.



When detaching the clip (if required), spread the clip arms with fingers and pull them straight out as shown in the illustrations below.



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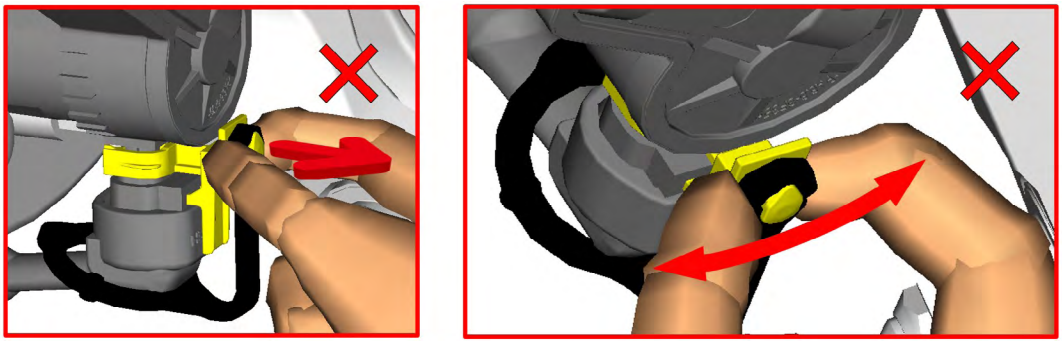
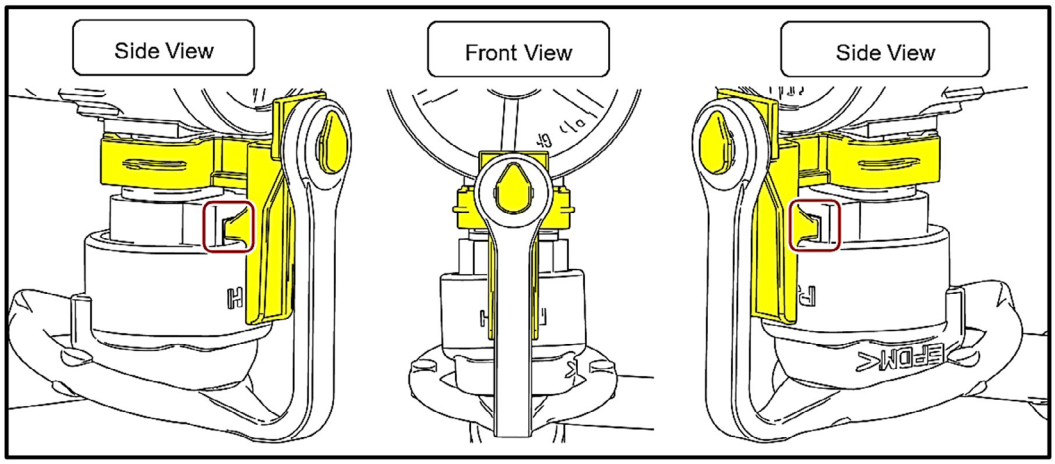
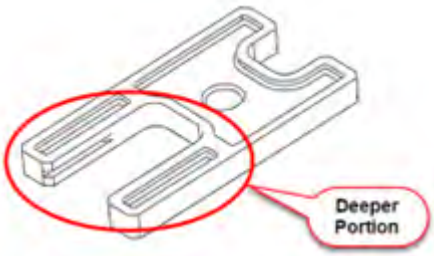
DO NOT pull, push, shake or bend the clip base.

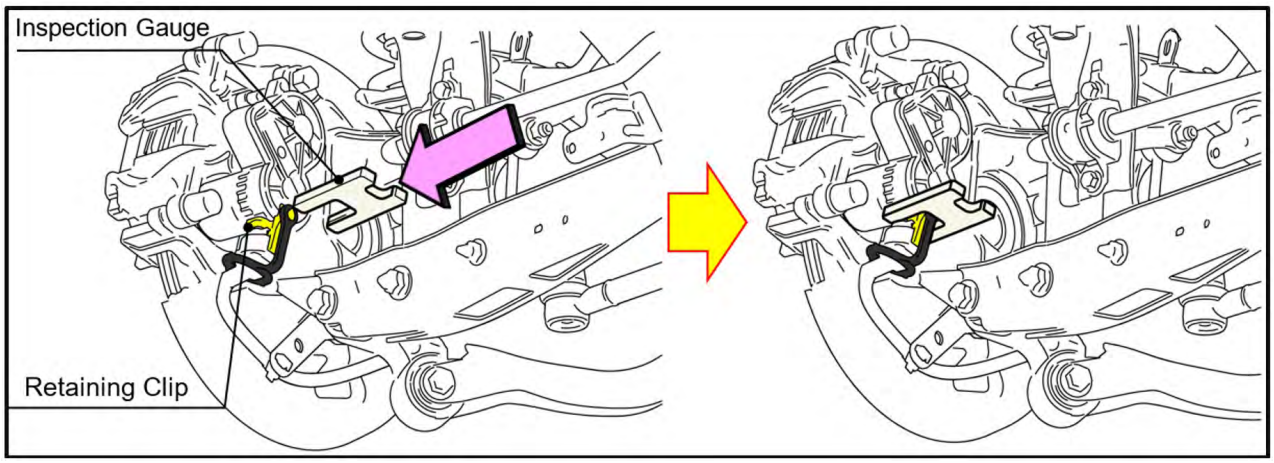


STEP 20: Once the clip is installed, perform a visual inspection of proper clip/connector alignment.



STEP 21: Using the inspection gauge **(p.n. 99804AL000)** pictured to the right, confirm the retaining clip is fully attached by inserting the deeper portion over the retaining clip. Align the grooves of the inspection gauge with the retaining clip sides. See the images below.





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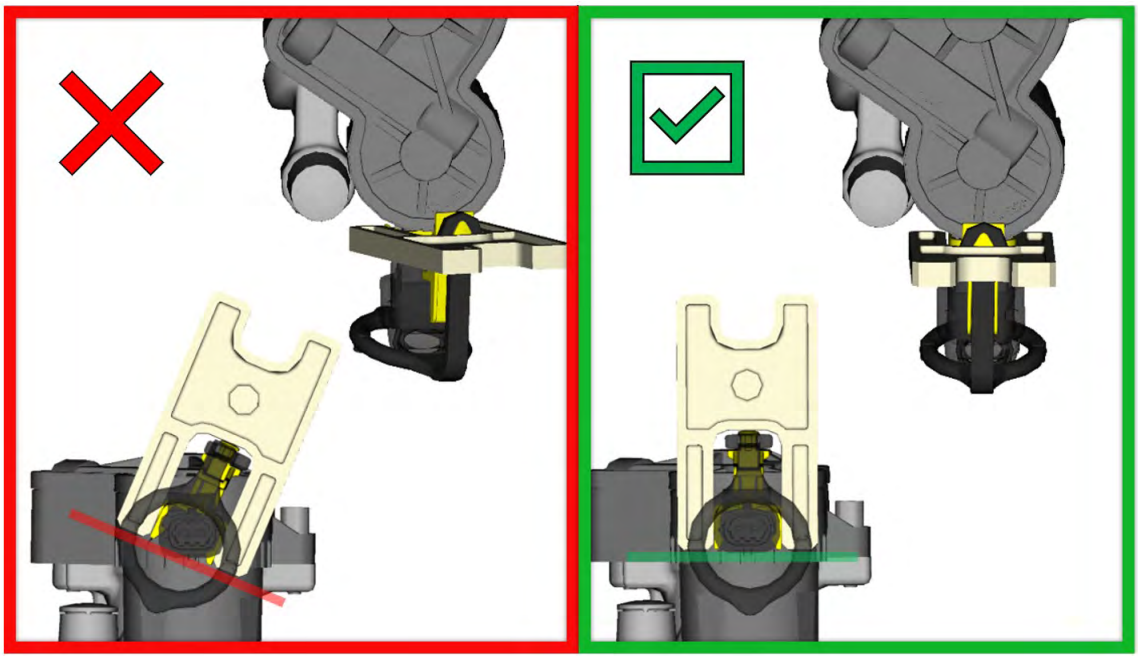
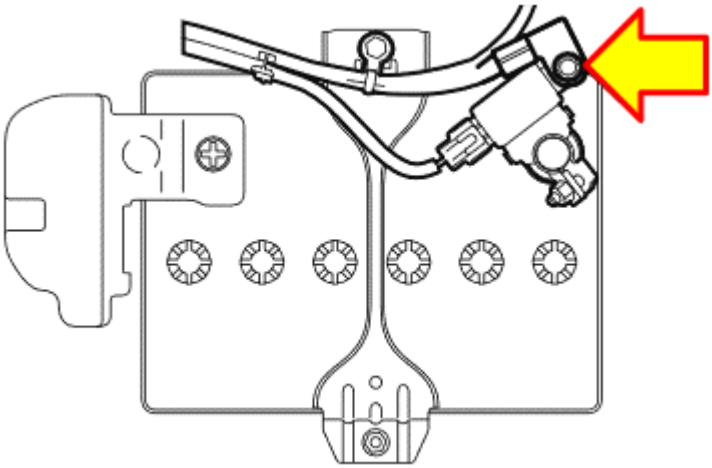
Confirm the deeper portion of the inspection gauge can be fitted as shown below.



STEP 22: Reinstall the affected wheel(s) and torque the lug nuts to 120N.m (88.5 ft-lb).

STEP 23: **CAREFULLY** lower the vehicle.

STEP 24: **CAREFULLY** reconnect the ground cable terminal to the battery sensor, torque to 7.5Nm (5.5ft.-lbs. or 66inch-lbs.) while supporting the sensor with the other hand as outlined in the applicable Service Manual under: STARTING/CHARGING SYSTSEMS > Battery Sensor.



STEP 25: Using Subaru Select Monitor, clear all previously stored fault codes.

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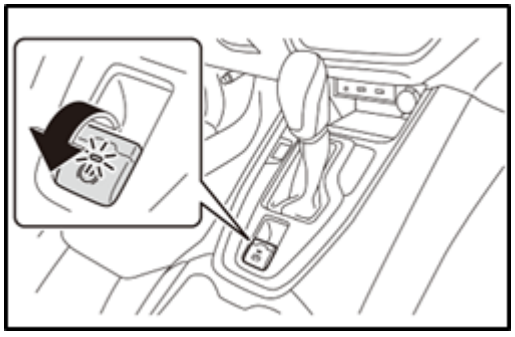
STEP 26: Perform a function test of the electronic parking brake

- Switch the ignition switch to the “ON” position.
- Release and apply the EPB switch and confirm its operation.
- Confirm the EPB warning light is not illuminated in the combination meter.
- Switch the ignition switch to the “OFF” position.



WARRANTY / CLAIM INFORMATION:

The New Car Limited Warranty coverage for the electronic connector lock tab for the Electric Parking Brake (EPB) assembly is extended from (3) years or thirty-six thousand (36,000) miles (whichever comes first) to (15) years / unlimited mileage.

Labor Description	Labor Operation #	Labor Time	Fail Code
EPB CONNECTER REPAIR, ONE OR BOTH SIDES	A544-299	0.5H	SPA-02

NOTE: Up to 50 cents may be charged out in sublet to cover the cost of grease.

IMPORTANT REMINDERS:

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.
- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.
- Always refer to STIS for the latest service information before performing any repairs.