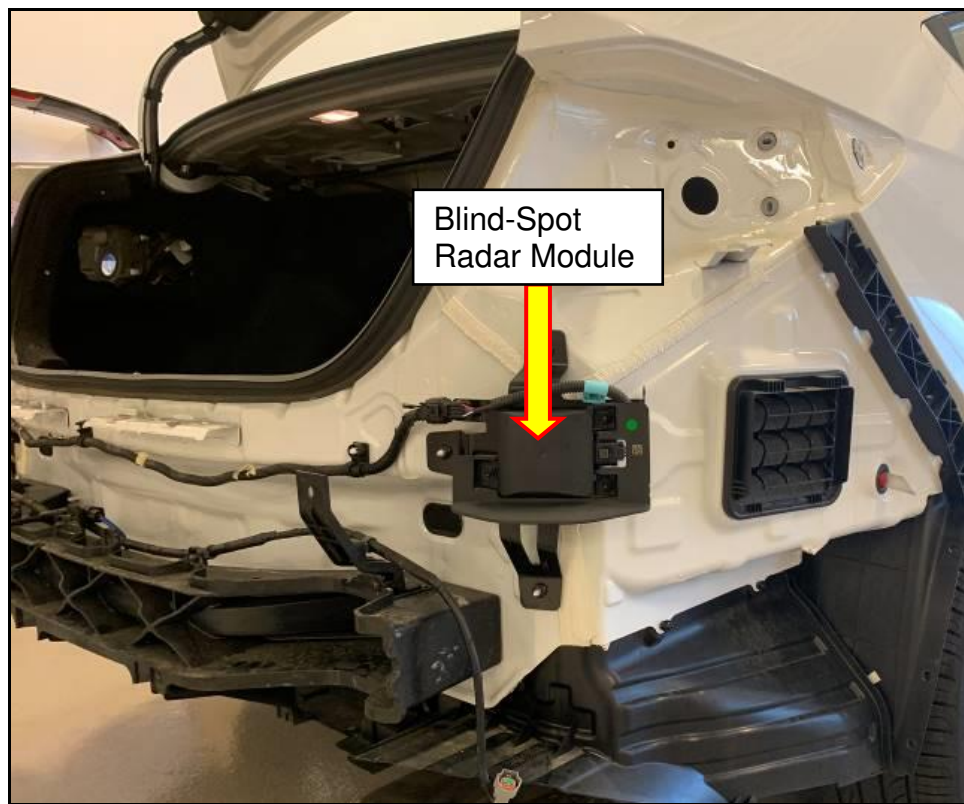


 HYUNDAI Technical Service Bulletin	GROUP BODY ELECTRICAL	NUMBER 19-BE-016H
	DATE OCTOBER 2019	MODEL(S) ELANTRA (ADa)
SUBJECT: BLIND-SPOT RADAR REPLACEMENT, AND MOUNTING ANGLE VALIDATION		

Description: Certain 2019 MY Elantra (ADa) vehicles may experience the Blind-Spot Collision Warning (BCW) light displayed on the instrument cluster. In some cases one and/or two of the following DTCs can be set:

- C2702 – Control Module Missing Calibration
- C2703 – Control Module Slave Missing Calibration

This bulletin provides the service procedure to replace the left and right Blind-Spot radar modules.



Applicable Vehicles: Certain 2019 Elantra (ADa) vehicles built from 9/04/2018 – 4/02/2019

SUBJECT: BLIND-SPOT RADAR REPLACEMENT AND MOUNTING ANGLE VALIDATION**Parts Information:**

PART NAME	PART NUMBER		PART IMAGE	QTY.
	PREVIOUS	NEW		
BSD Assy - LH	99140-F3000	99140-F3001		1
BSD Assy - RH	99150-F3000	99150-F3001		1

Warranty Information:

MODEL	OP. CODE	OPERATION	OP. TIME	CAUSAL PART	NATURE	CAUSE
Elantra (ADa)	90CA06R0	LH/RH BCW MODULE REPLACEMENT	1.1 M/H	99140-F3001	I3N	ZZ3

NOTE 1: Submit Claim on Campaign Claim Entry Screen.

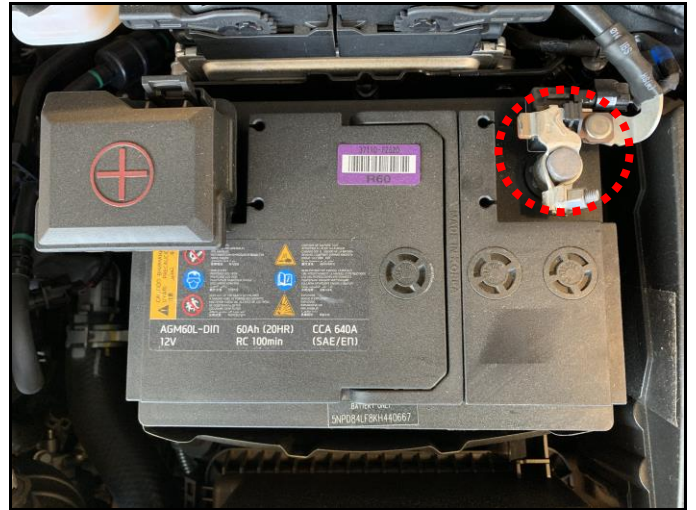
NOTE 2: If a part is found in need of replacement while performing this TSB and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

Service Procedure:

BLIND-SPOT RADAR REPLACEMENT AND MOUNTING ANGLE VALIDATION

1. Align the vehicle onto the lift.
2. If applicable, record the customer's radio preset stations for AM/FM/XM.
3. Pull hood release to open the hood to access the 12V battery.
4. Disconnect the 12V negative (-) battery terminal.

**Negative battery terminal tightening torque:
7.8 - 9.8 N.m (0.8 - 1.0 kgf.m, 5.2 - 8.7 lb-ft)**



5. Refer to the shop manual (Body – “Rear Bumper”) and remove the rear bumper.

⚠ CAUTION

Be careful to not damage or scratch the rear bumper during the removal and reinstallation process.

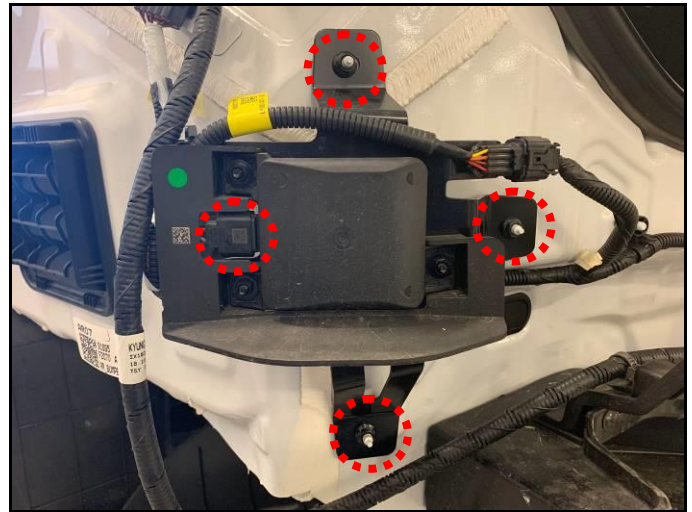


6. Remove the LH Blind-Spot radar assembly.

Disconnect the radar connector, remove the 10mm mounting nuts, and then remove the Blind-Spot radar.

⚠ CAUTION

Be careful to not damage the Blind-Spot radar bracket during the removal and installation process.

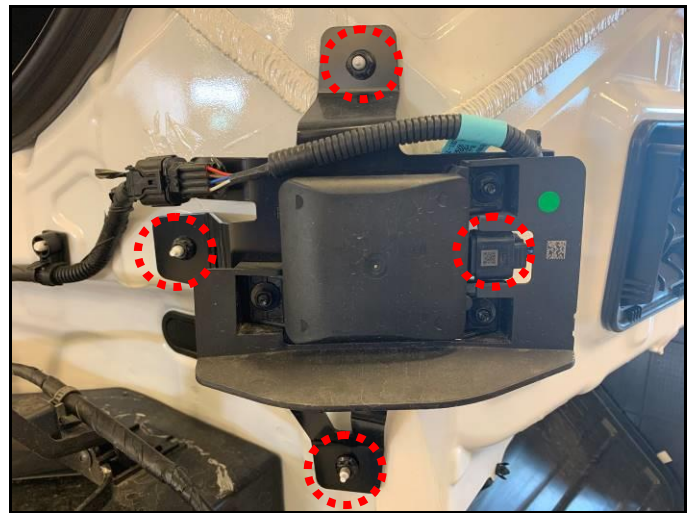


7. Remove the RH Blind-Spot radar assembly.

Disconnect the radar connector, remove the 10mm mounting nuts, and then remove the Blind-Spot radar.

⚠ CAUTION

Be careful to not damage the Blind-Spot radar bracket during the removal and installation process.



8. Install the new LH and RH Blind-Spot radars assembly in reverse order of removal.

Tightening torque:

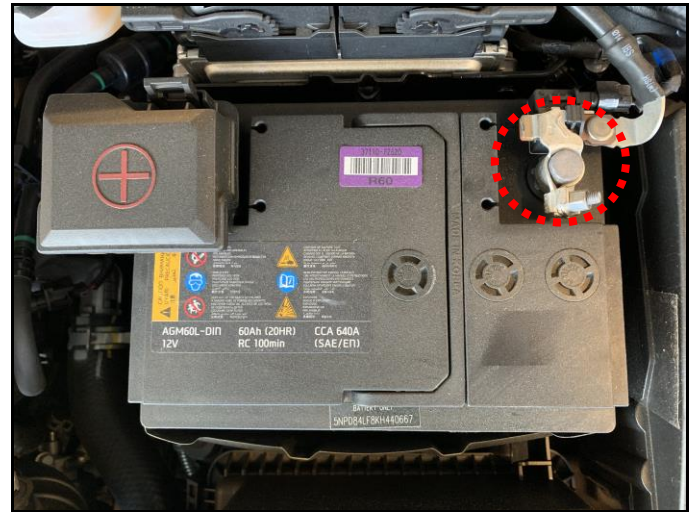
Radar bracket :

3.9 - 5.9 N.m (0.4 - 0.6 kg cm, 2.9 - 4.4 lb-ft)

Radar unit :

3.92 ± 0.98 N.m (2.9 lb-ft)

9. Reconnect the negative battery cable.

Tightening torque:***7.8 - 9.8 N.m (0.8 - 1.0 kgf.m, 5.2 - 8.7 lb-ft)***

10. After replacing the Blind-Spot radar modules, refer to TSB 19-BE-011H (pages 6-10) for instructions to measure the vertical and horizontal mounting angles.

Perform the Blind-Spot Radar calibration procedure using the GDS as instructed in TSB 19-BE-011H (page 11).

LH and RH Blind-Spot Radar Mounting Angle Specification:**Horizontal Angle: $55^{\circ} \pm 3^{\circ}$** **Vertical Angle : $90^{\circ} \pm 1.5^{\circ}$** **NOTICE**

The Blind-Spot radar plastic shield must be removed, otherwise the laser clamp will not be able to clamp onto the radar.

Remove the 8mm mounting nuts to remove the radar plastic shield.

After measuring the mounting angles, ensure the plastic shield is reinstalled back onto the radar module.

 HYUNDAI Technical Service Bulletin	GROUP BODY ELECTRICAL	NUMBER 19-BE-011H
	DATE MAY, 2019	MODEL(S) ALL
SUBJECT: BLIND SPOT DETECTION (BSD) OR BLIND-SPOT COLLISION WARNING (BCW)		
<i>This TSB supersedes 18-BE-004-2 to include the notice of down level parts availability and BSD/BCW warranty coverage information.</i>		
Description: The Blind Spot Detection (BSD) or Blind-Spot Collision Warning (BCW) is a system that measures the speed of and distance from the following vehicles by using two magnetic wave radar sensors attached in the rear bumper. The BSD/BCW detects vehicle within the blind spot zone and gives off an alarm (visual and audible). The two magnetic radar sensors provide these functions for BSD/BCW: Senses other vehicles in the BSD/BCW zone and turns on the BSD/BCW warning lamp for the driver. The warning lamp starts blinking, along with an audible sound, when the driver turns on the turn signal lamp to enter the lane where another vehicle is driving.		
This bulletin describes the general operation of the BSD/BCW, provides a radar sensor troubleshooting guide, and outlines the usage of the BSD/BCW system angle measurement tool.		



11. After the Blind-Spot radar angles have been calibrated, reinstall the rear bumper in reverse order of removal.

NOTICE

If the Blind-Spot radar is not within specification, then use washer(s) to shim the Blind-Spot radar bracket(s) to adjust the mounting angles.



12. Recheck for DTCs and clear if any are in the system.
13. Confirm the Blind-Spot Collision Warning system is working normally, and reprogram the customer's AM/FM/XM presets.