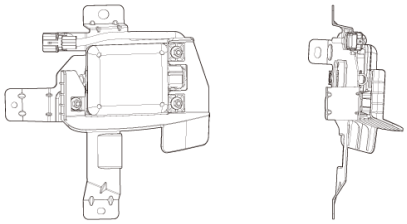
Component Procedures: Blind Spot Module

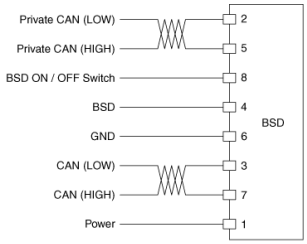
Table of Contents

Component Procedures: Blind Spot Module

Blind-Spot Radar Unit - Schematic Diagrams (Article 44696)

- Circuit Diagram





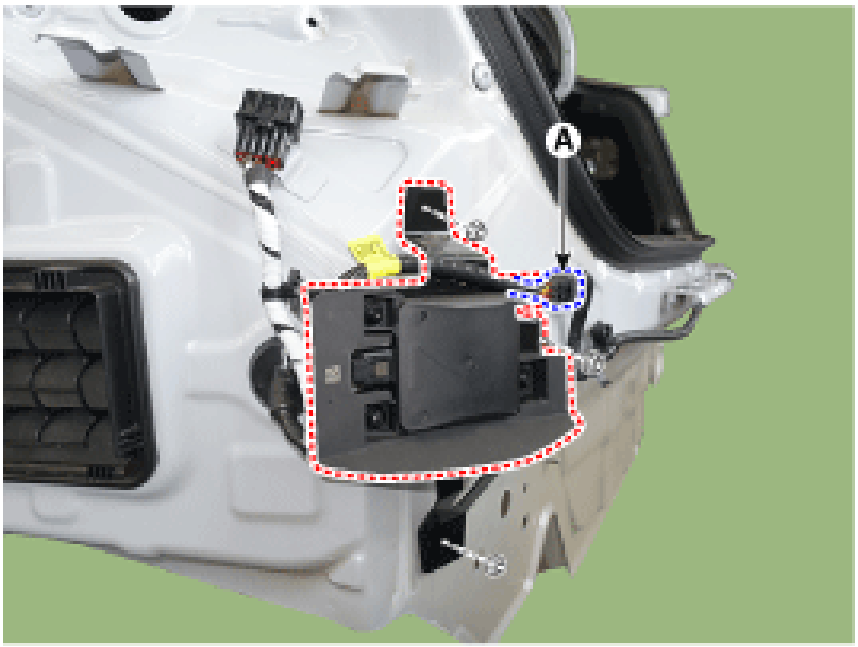
Connector	No	Description (Left)	Description (Right)
	1	Power	Power
	2	Private CAN (High)	Private CAN (High)
	3	Chassi CAN (Low)	BSD Warning lamp (LH)
	4	BSD Switch indicator	-
	5	Private CAN (Low)	Private CAN (Low)
	6	GND	GND
	7	Chassi CAN (Low)	BSD Warning lamp (RH)
	8	BSD Switch	-

Blind-Spot Radar Unit - Repair Procedures (Article 44698)

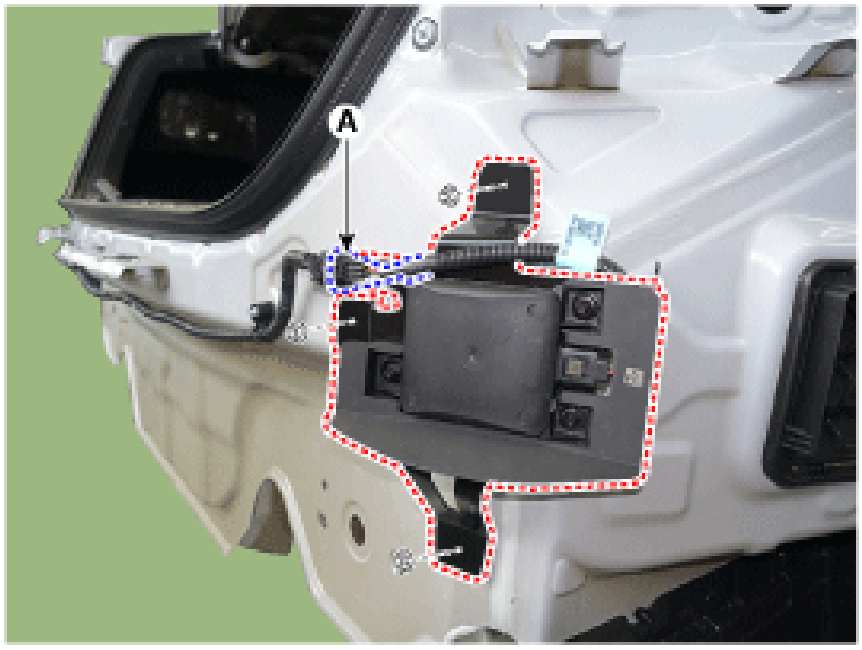
- Removal

- Disconnect the negative (-) battery terminal.
- Remove the rear bumper. (Refer to Body - "Rear Bumper")
- Disconnect the radar connector (A) and then remove the blind-spot radar unit after loosening the mounting nuts. [LH] [RH] Take care not to damage the bracket when removing the radar unit.

[LH]



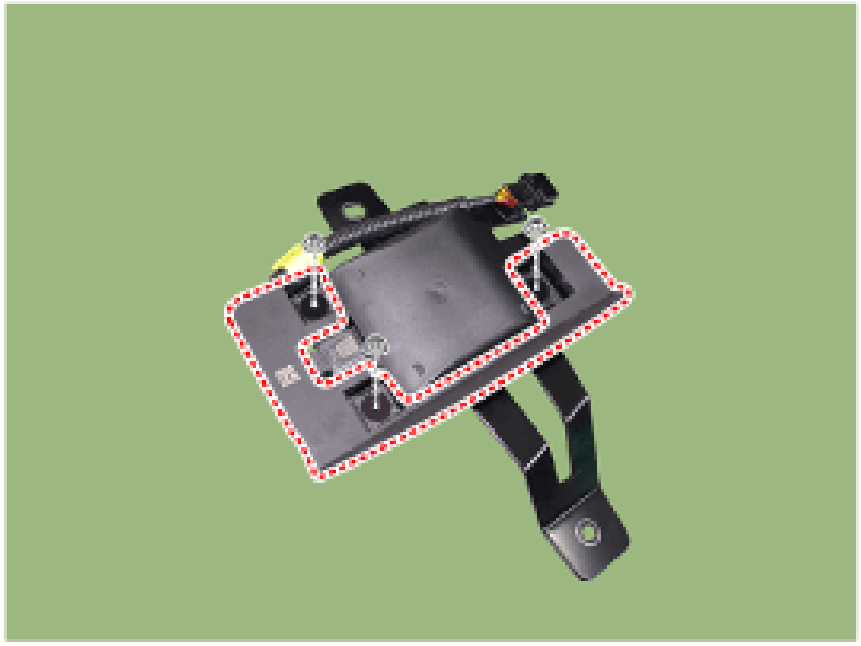
[RH]



Take care not to damage the bracket when removing the radar unit.

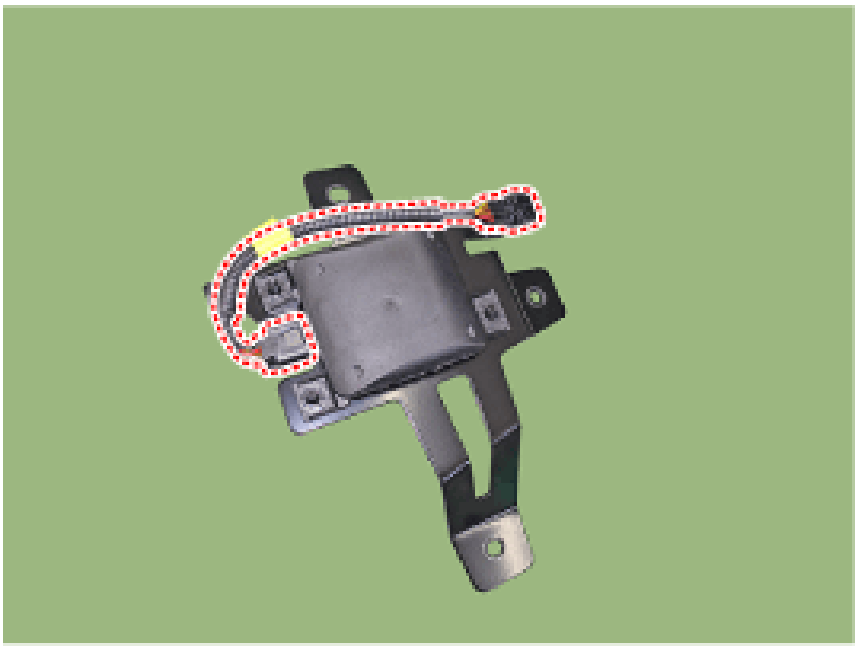
NOTICE

- Take care not to damage the bracket when removing the radar unit.
- Replace the bracket after loosening the nuts when the bracket is physically changed or damaged. Radar does not work normally if the bracket is physically changed or damaged.


Radar does not work normally if the bracket is physically changed or damaged.

CAUTION

- Radar does not work normally if the bracket is physically changed or damaged.
- Replace the extension wiring when it damaged.



- Installation

- Install the radar unit and bracket. 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
- Install the rear bumper.
- Connect the negative (-) battery terminal. Take care not to confuse left side (master) and right side (slave) unit when installing.

Take care not to confuse left side (master) and right side (slave) unit when installing.

- Take care not to confuse left side (master) and right side (slave) unit when installing.

- Inspection

Correcting the Blind-Spot Radar Angle

- After replacing the Blind-Spot radar unit or bracket, with the bumper removed, use the Blind-Spot radar unit correction tool set (special tool : 09958-3T500) to perform angle correction. Perform the task on a level place. Perform the task after checking the tire pressure. For the dealer who purchased the existing Blind-Spot radar correction tool set (09958-3T000), refer to the instructions of the 17MY shop manual and repair it.

Perform the task on a level place. Perform the task after checking the tire pressure. For the dealer who purchased the existing Blind-Spot radar correction tool set (09958-3T000), refer to the instructions of the 17MY shop manual and repair it.

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- Perform the task after checking the tire pressure.

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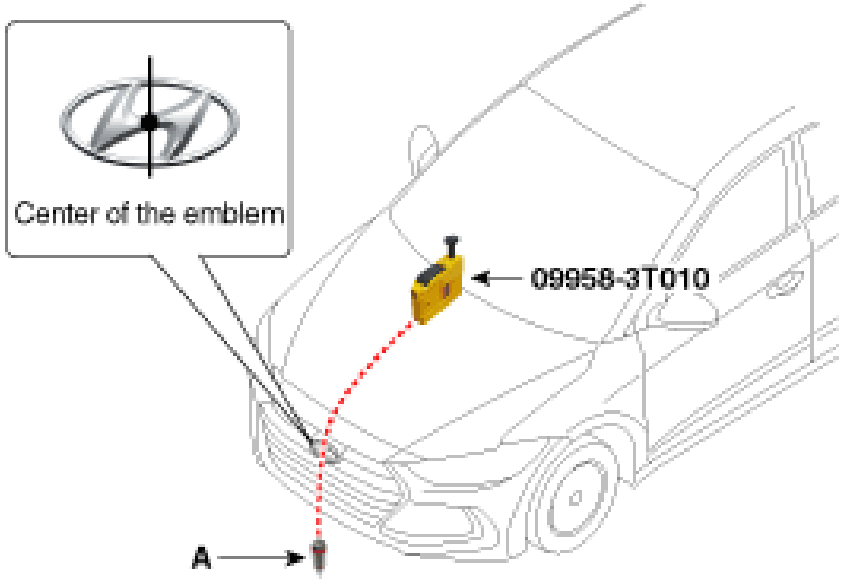
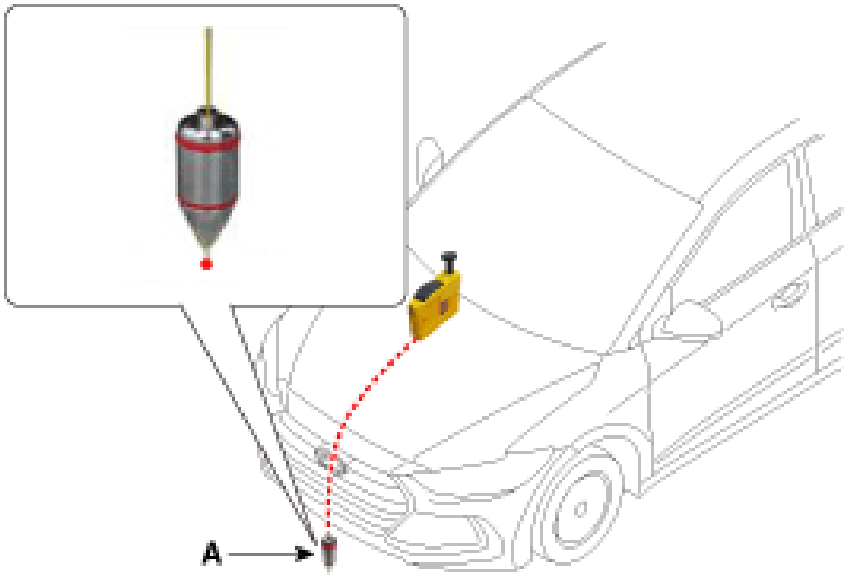
Information

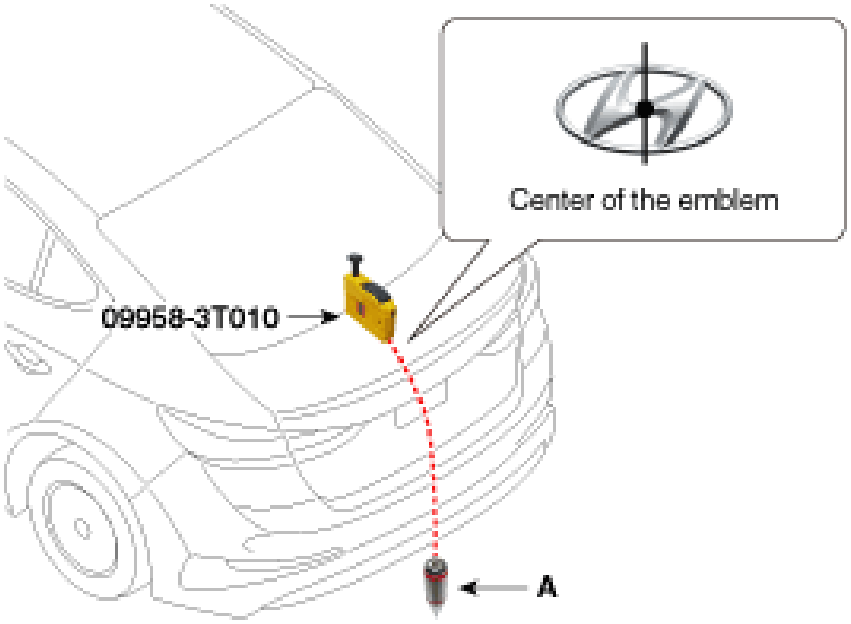
- Attach a vertical plumb (special tool : 09958-3T010) on the hood, and lower the plumb (A) to the ground so that it passes through the center of the emblem.



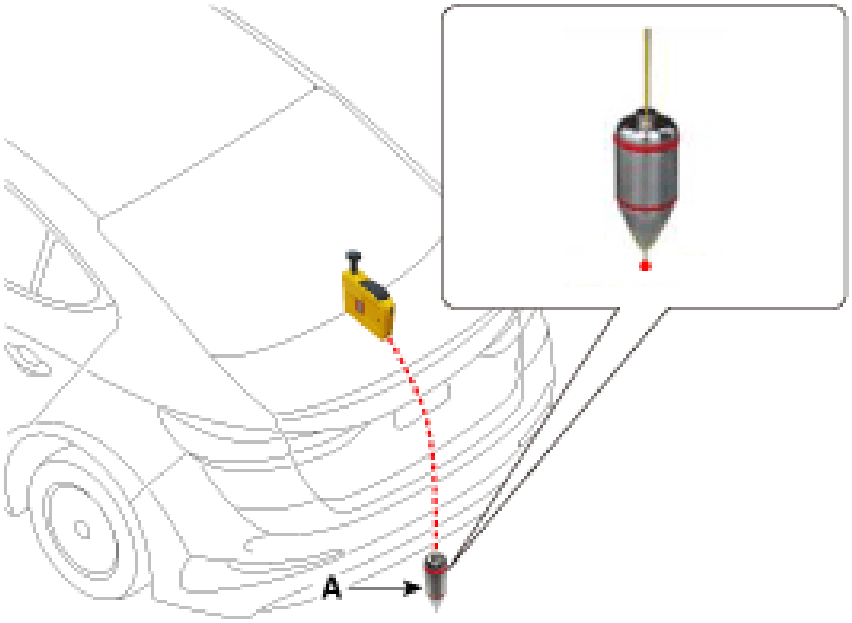
- Marking the center point below the plumb (A).



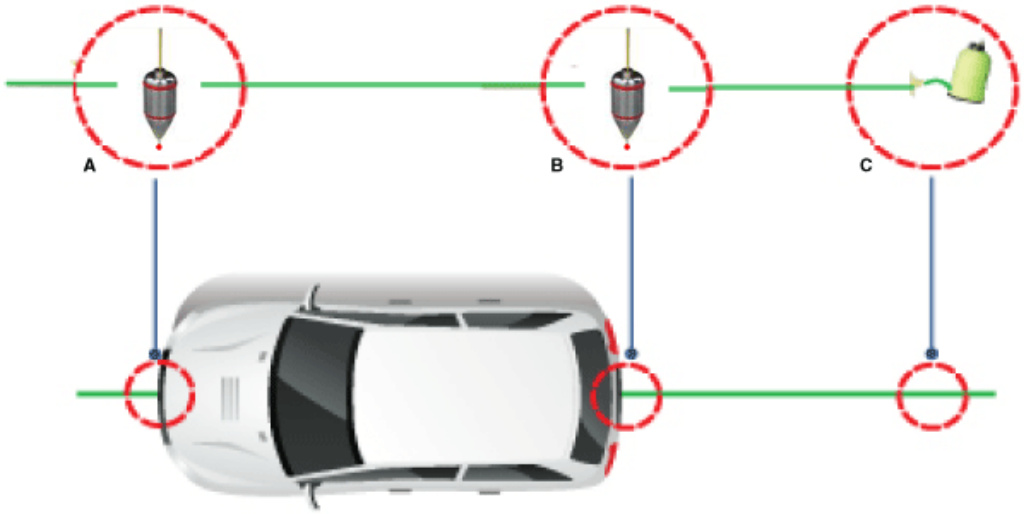
- Attach a vertical plumb (special tool : 09958-3T010) on the trunk (or tailgate), and lower the plumb (A) to the ground so that it passes through the center of the emblem.



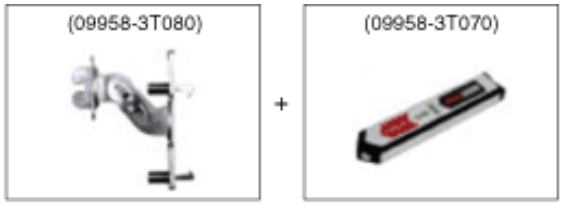
- arking the center point below the plumb (A).

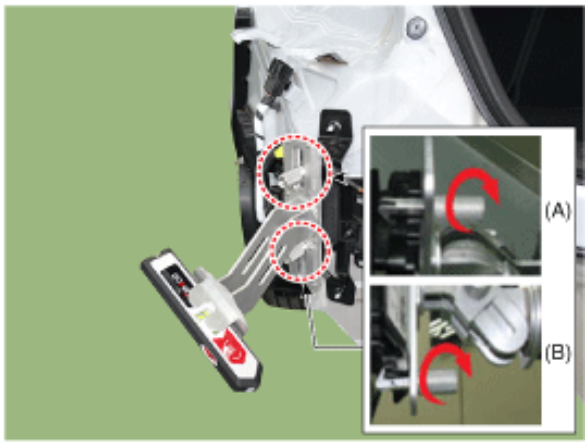


- Marking the center of vehicle by a string. Pass the string through the bottom of the vehicle from the rear of the vehicle to the front and fix the string to the center point (A) of the front of the vehicle. Fix the string to the point (C) about 1.5 - 2m from the back of the vehicle so that it passes the rear center point (B).
- Pass the string through the bottom of the vehicle from the rear of the vehicle to the front and fix the string to the center point (A) of the front of the vehicle.
- Fix the string to the point (C) about 1.5 - 2m from the back of the vehicle so that it passes the rear center point (B).



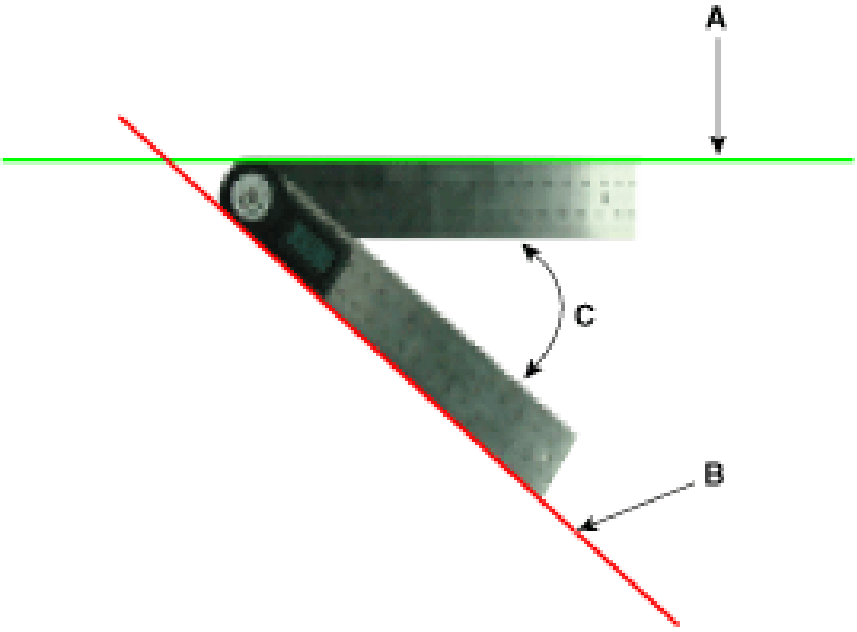
- Mount the Blind-Spot radar unit fixing adaptor (special tool : 09958-3T080) on the Blind-Spot radar unit and fix the level laser (special tool : 09958-3T070). When with the Blind-Spot radar unit cover, remove the cover and then mount the fixing adapter (special tool: 09958-3T080).



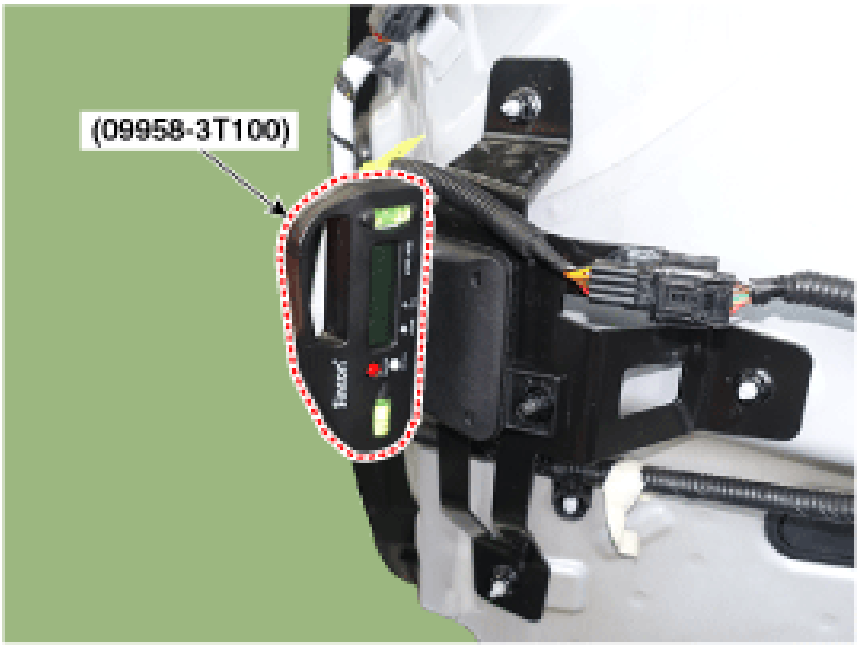


When with the Blind-Spot radar unit cover, remove the cover and then mount the fixing adapter (special tool: 09958-3T080).

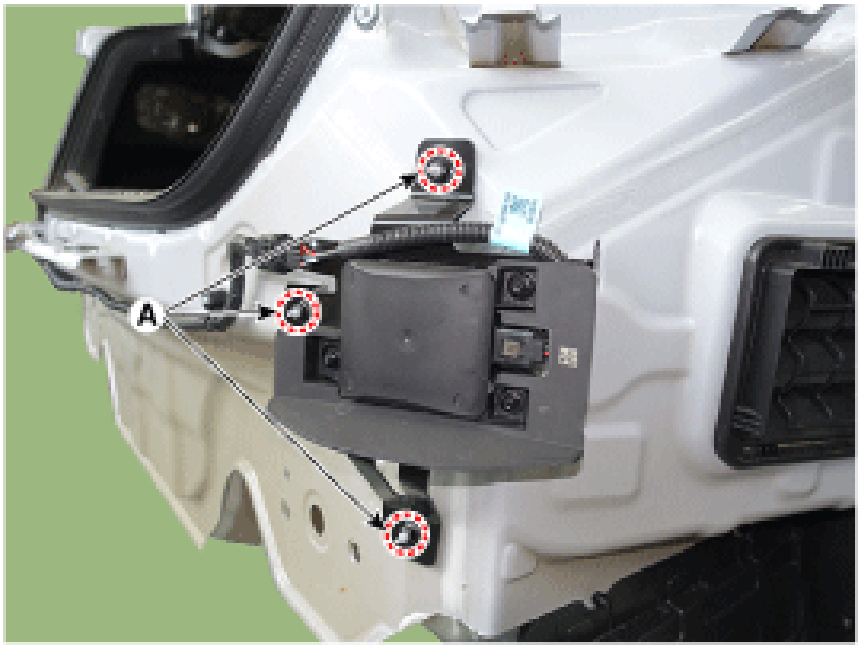
- Measure the angle (C) between the center line (A) of the angle measuring plate and the horizontal laser beam (B) using a digital protractor (special tool : 09958-3T090). Horizontal Angle (C) : 55° ± 3°



- Use a digital inclinometer (special tool : 09958-3T100) to measure the vertical angle of the Blind-Spot radar unit. Vertical Angle : 90° ± 1.5°



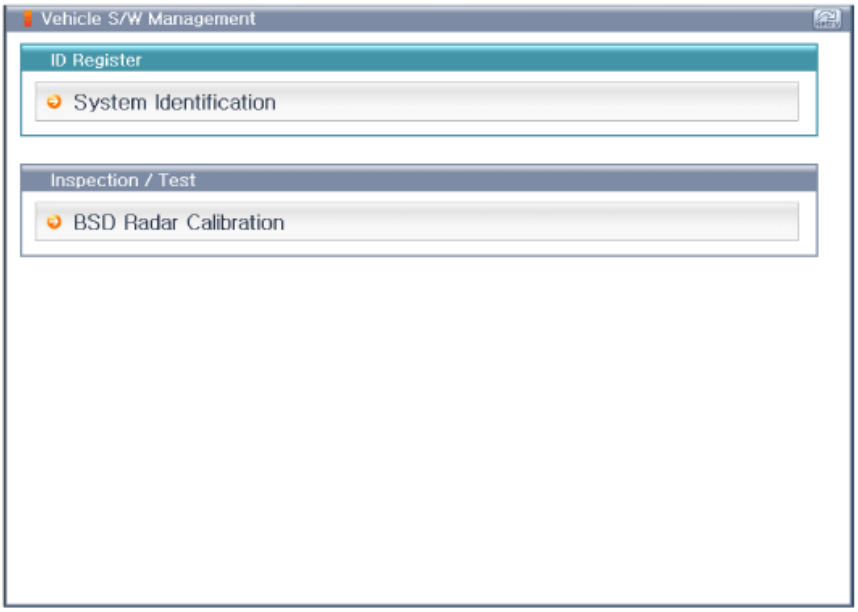
- Measure the horizontal and vertical angles of left and right Blind-Spot radar units. If the measured values deviate from the specified values, insert a washer between the bracket of the Blind-Spot radar unit. Specified Values Horizontal Angle : 55° ± 3° Vertical Angle : 90° ± 1.5°



- After checking and correcting the Blind-Spot radar unit angle, perform the Blind-Spot radar radar correction procedure.

Blind-Spot radar Unit Alignment

- Rear bumper accident vehicles and vehicles that replaced Blind-Spot radar units must perform Blind-Spot radar unit alignment using GDS.
- Select "Blind-Spot radar Calibration" procedure in BSD system.



- Perform the "Blind-Spot radar Radar Calibration" procedure according to the GDS screen message.


BSD Radar Calibration
ENGINE START STOP
[BSD Radar Calibration]
Coding has been completed!
Press [OK] to close.
OK