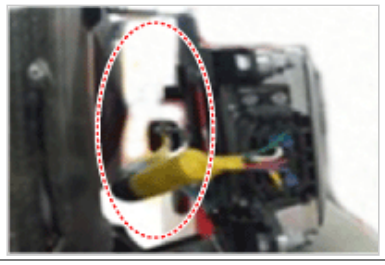
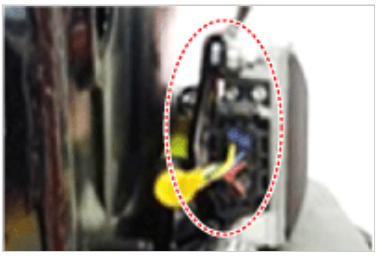
Inspection

Correction Overview

Need to calibrate the mounting angle of the BCW when a vehicle has a rear or a side collision with BCW system even just replacing a BCW bracket or BCW components.

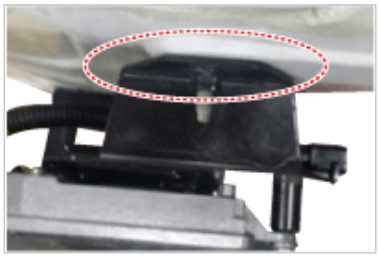
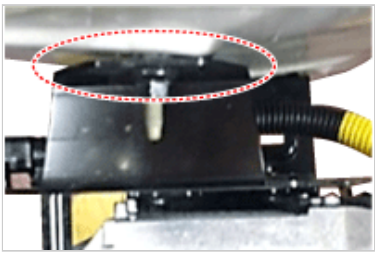
Check before Correction

1. When a failure code [C2702 (Master)] or [C2703 (Slave)] occurs, check the following before performing correction.
2. Check the vehicle condition and whether the BCW unit or bracket is deformed (mounting angle, twisted vehicle body, etc.).

Checking the Vehicle	
Normal	Abnormal (deformation of the bracket or bolted area)
	

Checking the Vehicle	
Normal	Abnormal (deformation of the bracket or bolted area)
	

3. Check the nut tightening. Check if there is any foreign substance.

Checking the Vehicle	
Normal	Abnormal (deformation of the bracket or bolted area)
	

NOTICE

- If you found any problem in the BCW unit, bracket, or nut tightening, correct the problem or replace the component. If there is no problem, mount the bumper back and perform BCW.
- If a failure code is displayed or a warning lamp turns on even after performing BCW radar correction 5 times, replace the BCW unit.

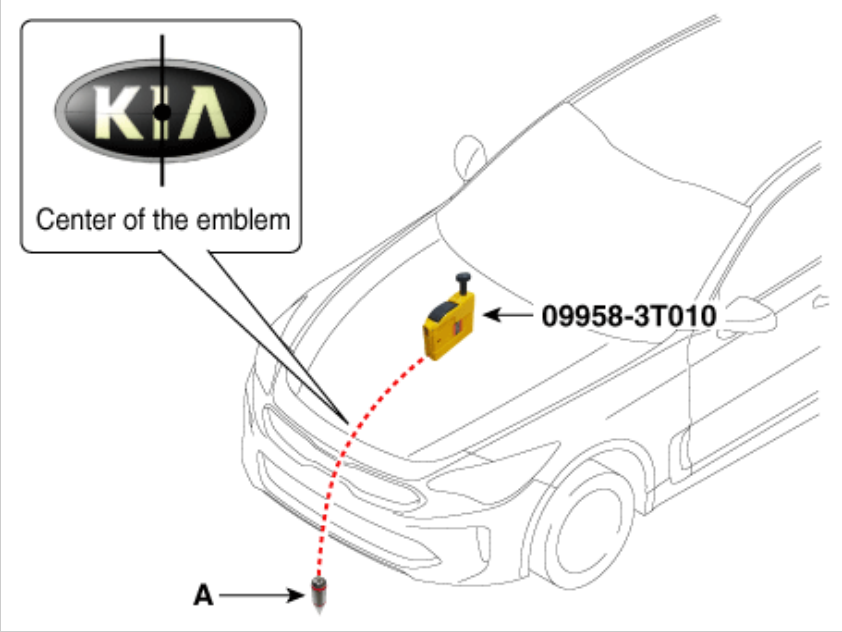
Correcting the blind-spot radar angle

NOTICE

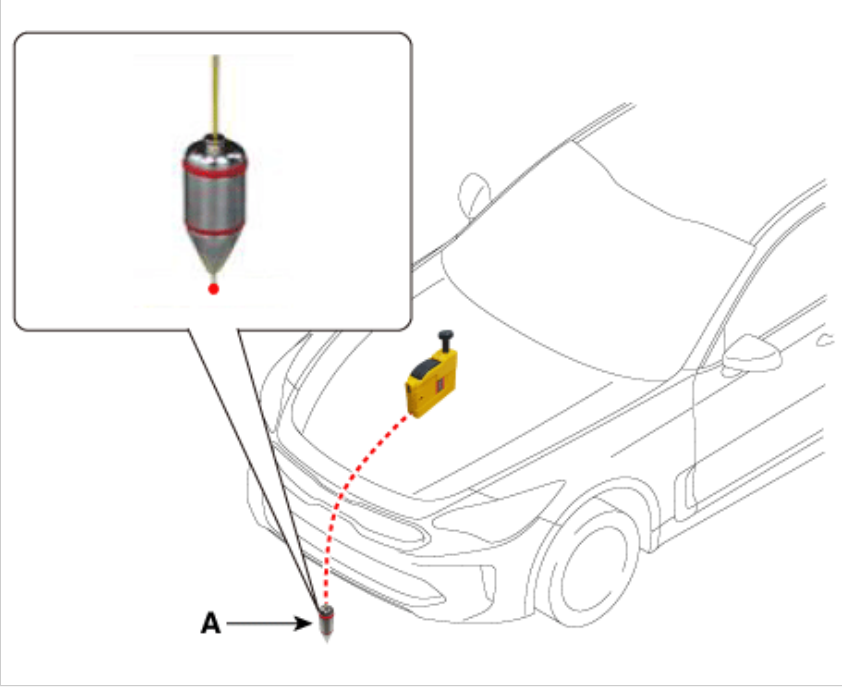
- Perform the task on a level place.

• Perform the task after checking the tire pressure.

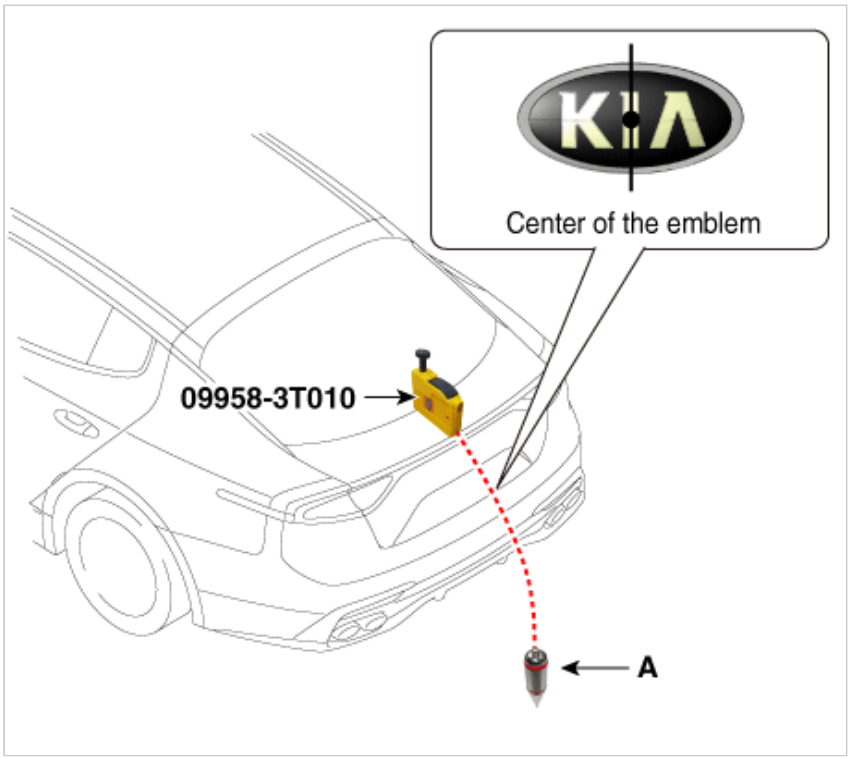
1. Remove the rear bumper assembly.
   (Refer to Body - "Rear Bumper Assembly")
2. Create the center line of vehicle by using the blind-spot radar unit correction tool set (09958-3T500).
   (1) Attach a vertical plumb (09958-3T010) on the hood, and lower the plumb (A) to the ground so that it passes through the center of the emblem.



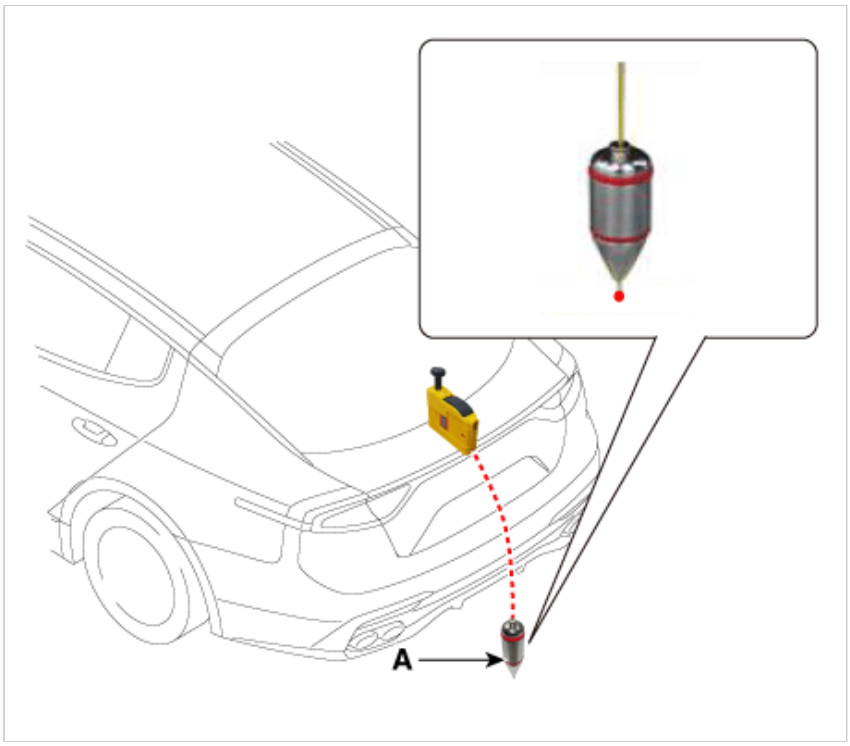
   (2) Mark the center point below the plumb (A).



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



(4) Mark the center point below the plumb (A).

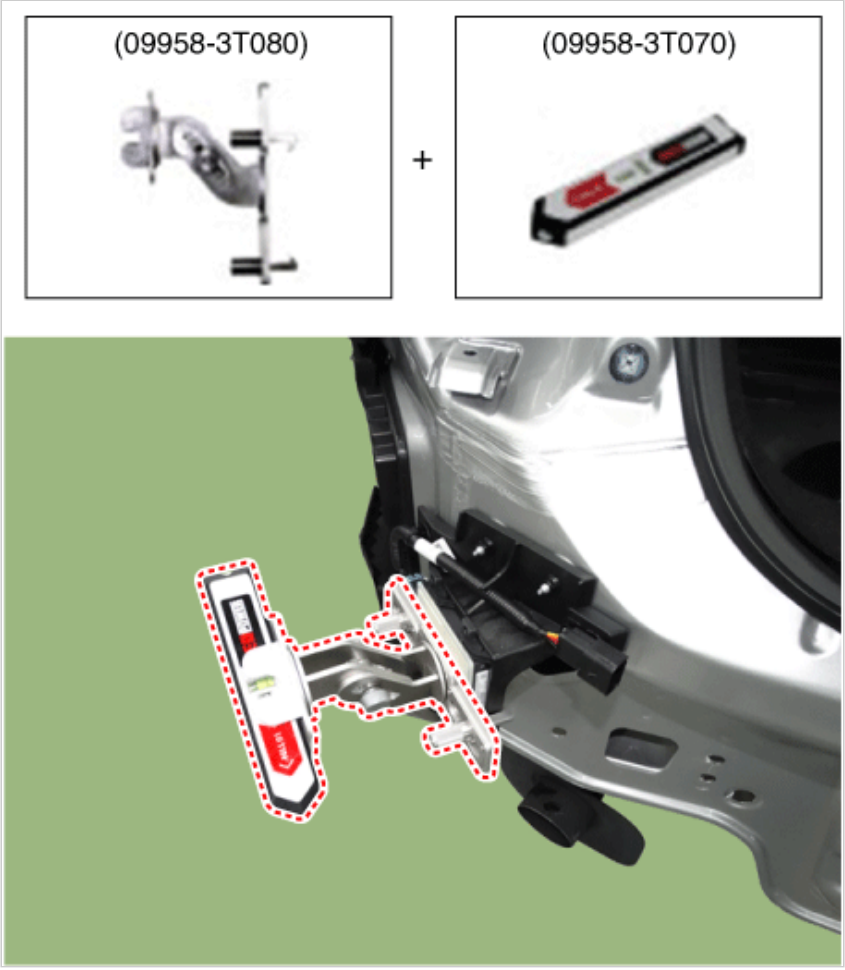


(5) Pass the string through the bottom of the vehicle from the rear of the vehicle to the front and fix the string to the center point (A) of the front of the vehicle.

(6) 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).

Click to see large image...

3. Mount the fixing adaptor (09958-3T080) on the radar unit and fix the level laser (09958-3T070).



4. Measure the horizontal angle.

Specified angle :37 ± 2°

(1) Measure the angle (C) between the center line (A) of the angle measuring plate and the horizontal laser beam (B) using a digital protractor (09958-3T090).

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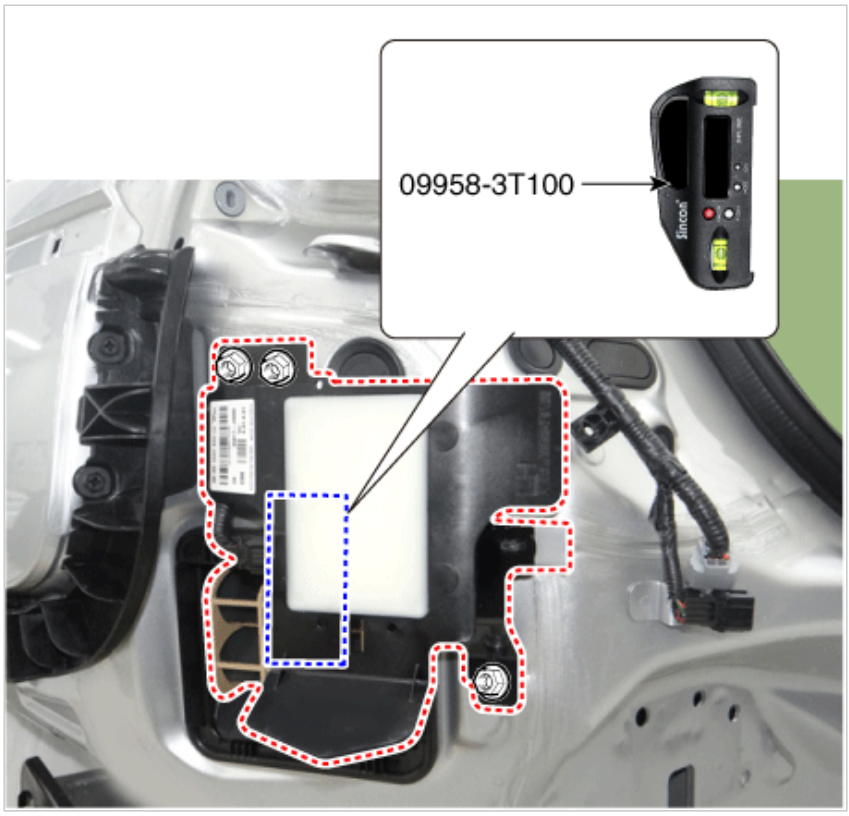
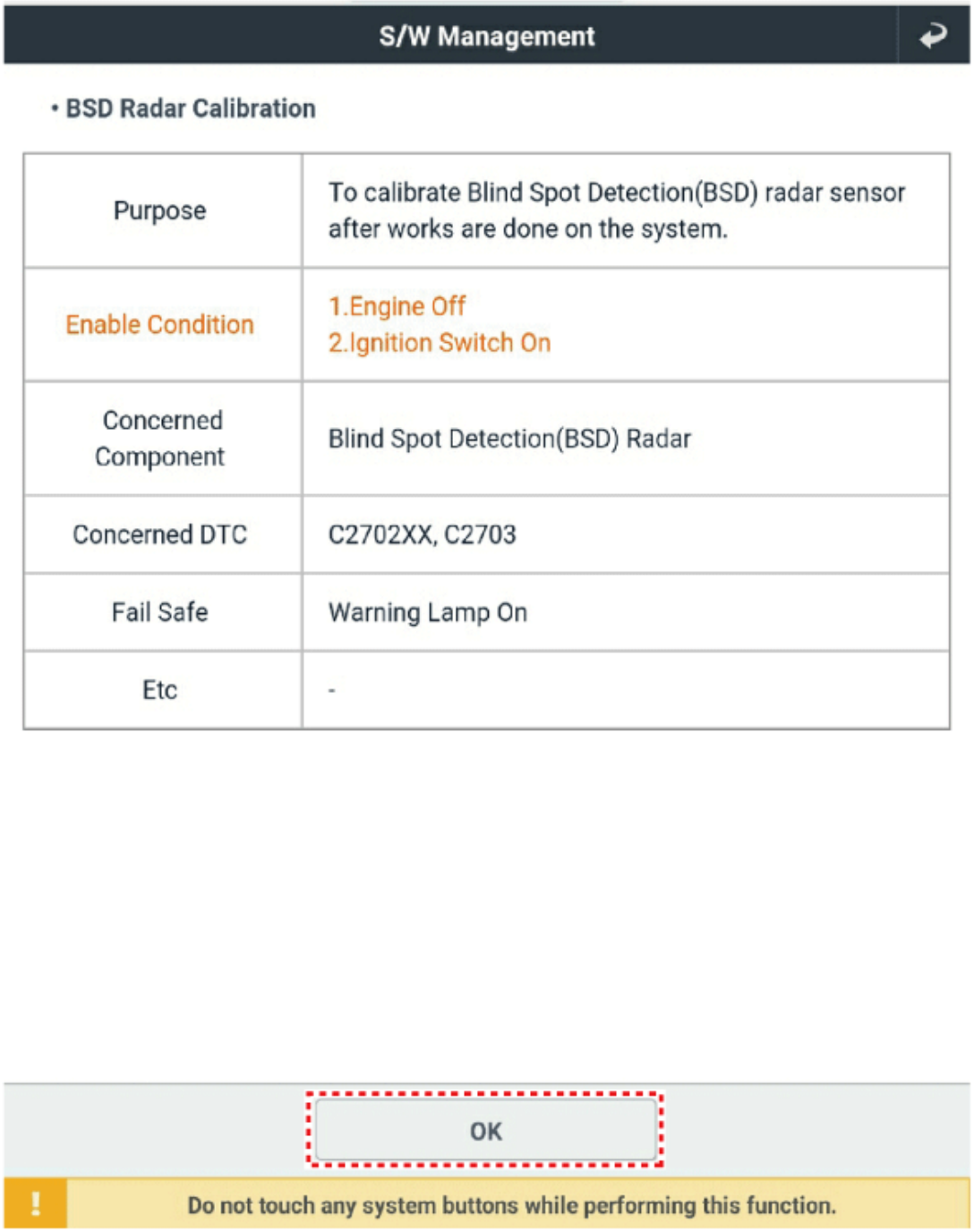
5. Measure the vertical angle of the blind-spot radar unit by using the digital inclinometer (09958-3T100).

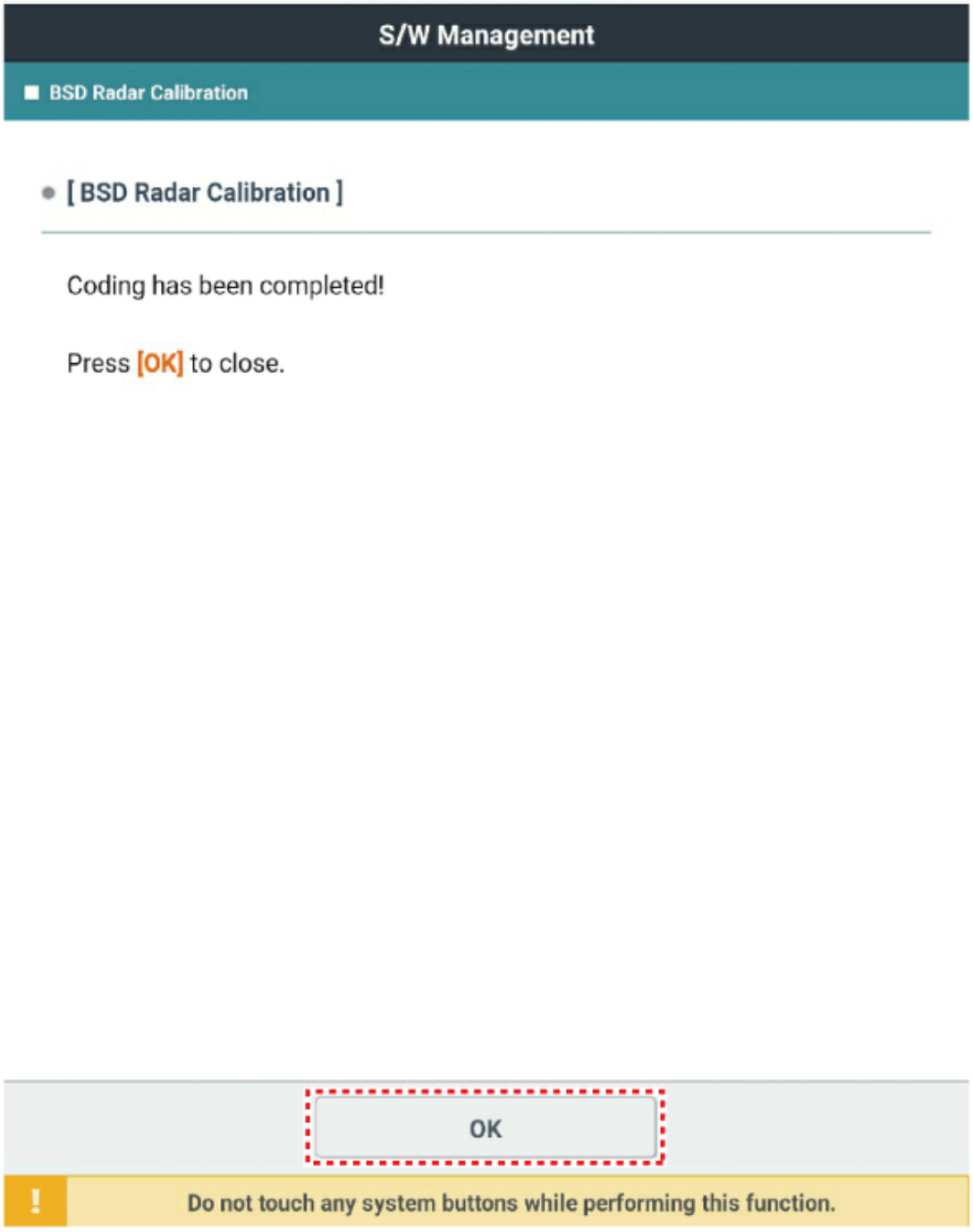
Specified angle :90 ± 1°



6. If the measured values deviate from the specified values, insert a washer (A) between the bracket of the BCW unit.
7. Install the rear bumper assembly.
   (Refer to Body - "Rear Bumper Assembly")
8. After checking and correcting the blind-spot radar unit angle, perform the radar calibration procedure using the KDS.


S/W Management
Systems
Components
Unfold All
Around View Monitor
Blind-Spot Collision Warning-Left
System Identification
BSD Radar Calibration
Blind-Spot Collision Warning-Right
Multi Function Camera
Adaptive Front-Lighting System
Auto Headlamp Leveling
Active Hood System
E-Shifter
Amplifier
Cluster Module
Driver Door Module
Head Up Display
IBU-BCM
Do not touch any system buttons while performing this function.


S/W Management
• BSD Radar Calibration
Purpose
To calibrate Blind Spot Detection(BSD) radar sensor after works are done on the system.
Enable Condition
1.Engine Off
2.Ignition Switch On
Concerned Component
Blind Spot Detection(BSD) Radar
Concerned DTC
C2702XX, C2703
Fail Safe
Warning Lamp On
Etc
-
OK
Do not touch any system buttons while performing this function.


S/W Management
BSD Radar Calibration
[BSD Radar Calibration]
Coding has been completed!
Press [OK] to close.
OK
Do not touch any system buttons while performing this function.