



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

- When a failure code [C2702 (Master)] or [C2703 (Slave)] occurs, check the following before performing correction.
- 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)
A photograph showing a BCW unit mounted on a bracket. A red dotted circle highlights the connection point between the unit and the bracket.	A photograph showing a BCW unit mounted on a bracket that appears deformed or twisted. A red dotted circle highlights the connection point.

Checking the Vehicle	
Normal	Abnormal (deformation of the bracket or bolted area)
A photograph showing a BCW unit mounted on a bracket in a normal, straight position. A yellow cable is visible.	A photograph showing a BCW unit mounted on a bracket that appears deformed or twisted. A yellow cable is visible.

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

Checking the Vehicle	
Normal	Abnormal (deformation of the bracket or bolted area)
A photograph showing a BCW unit mounted on a bracket with a nut tightened. A red dotted circle highlights the nut.	A photograph showing a BCW unit mounted on a bracket with a nut tightened, but the bracket appears deformed. A red dotted circle highlights the nut.

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.

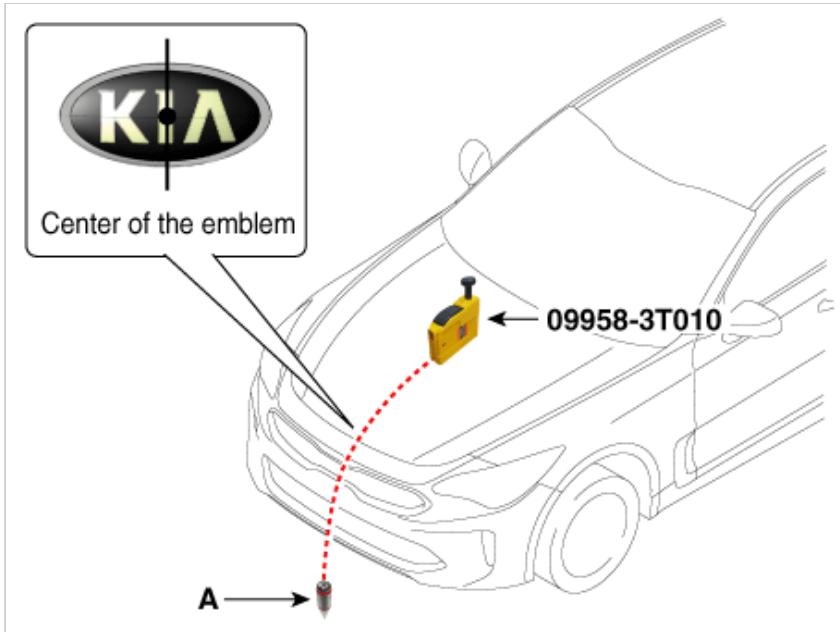
Correcting the blind-spot radar angle

NOTICE

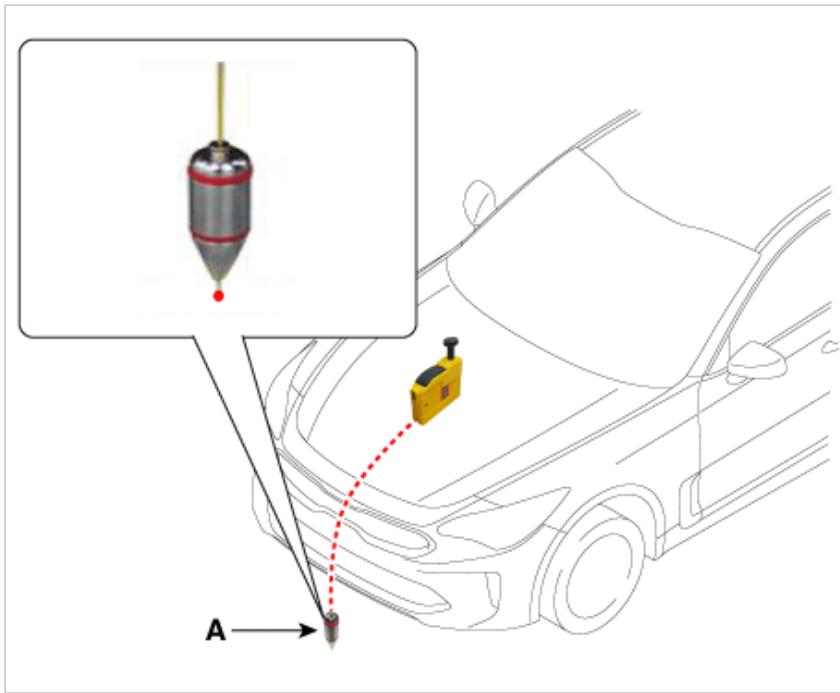
- Perform the task on a level place.

- Perform the task after checking the tire pressure.

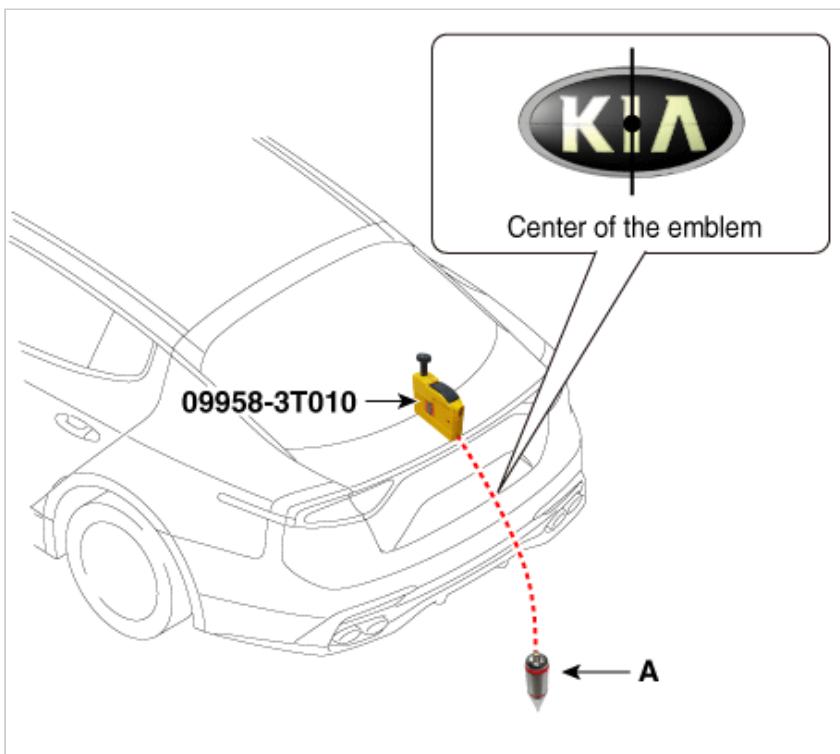
1. Remove the rear bumper assembly.
(Refer to Body - "Rear Bumper Assembly")
2. Create the center line of vehicle by using the blind-spot radar unit correction tool set (09958-3T500).
(1) Attach a vertical plumb (09958-3T010) on the hood, and lower the plumb (A) to the ground so that it passes through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



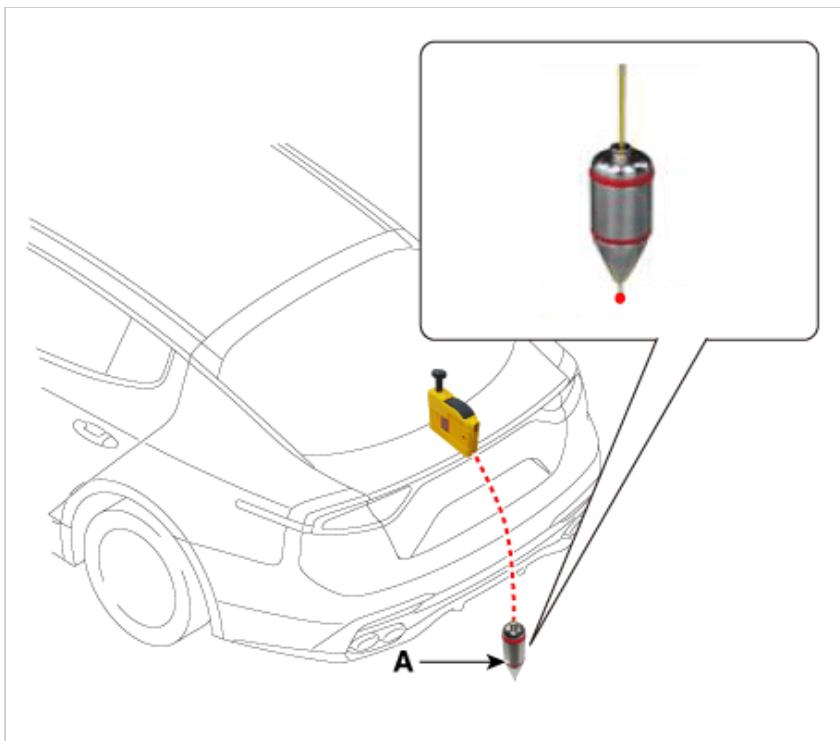
- (2) Mark the center point below the plumb (A).



- (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).

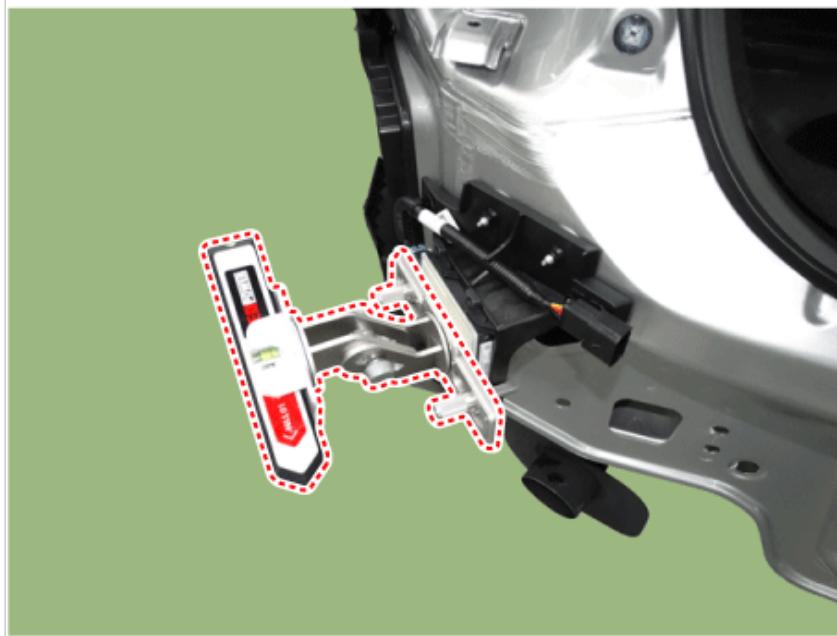
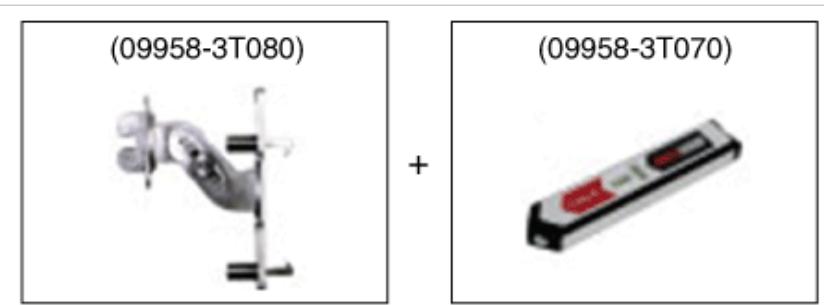


(5) Pass the string through the bottom of the vehicle from the rear of the vehicle to the front and fix the string to the center point (A) of the front of the vehicle.

(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.

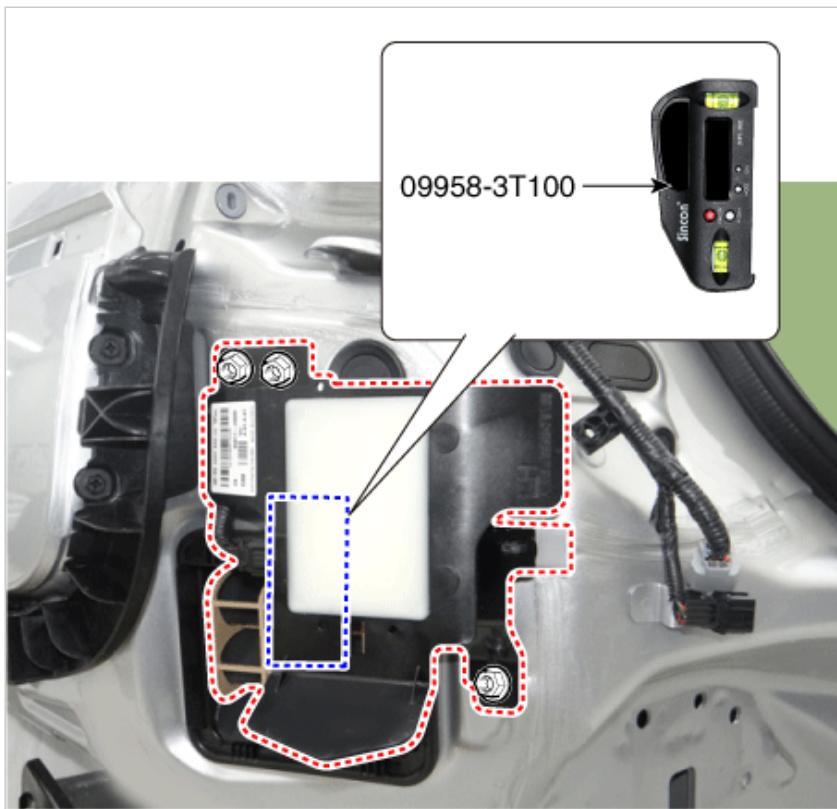
Specified angle : $37 \pm 2^\circ$

- (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).

[Click to see large image...](#)

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

Specified angle : $90 \pm 1^\circ$



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
- IDU-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.