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Hyundai Palisade: Surround View Monitor (SVM) / Repair procedures

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View Manual

Inspection

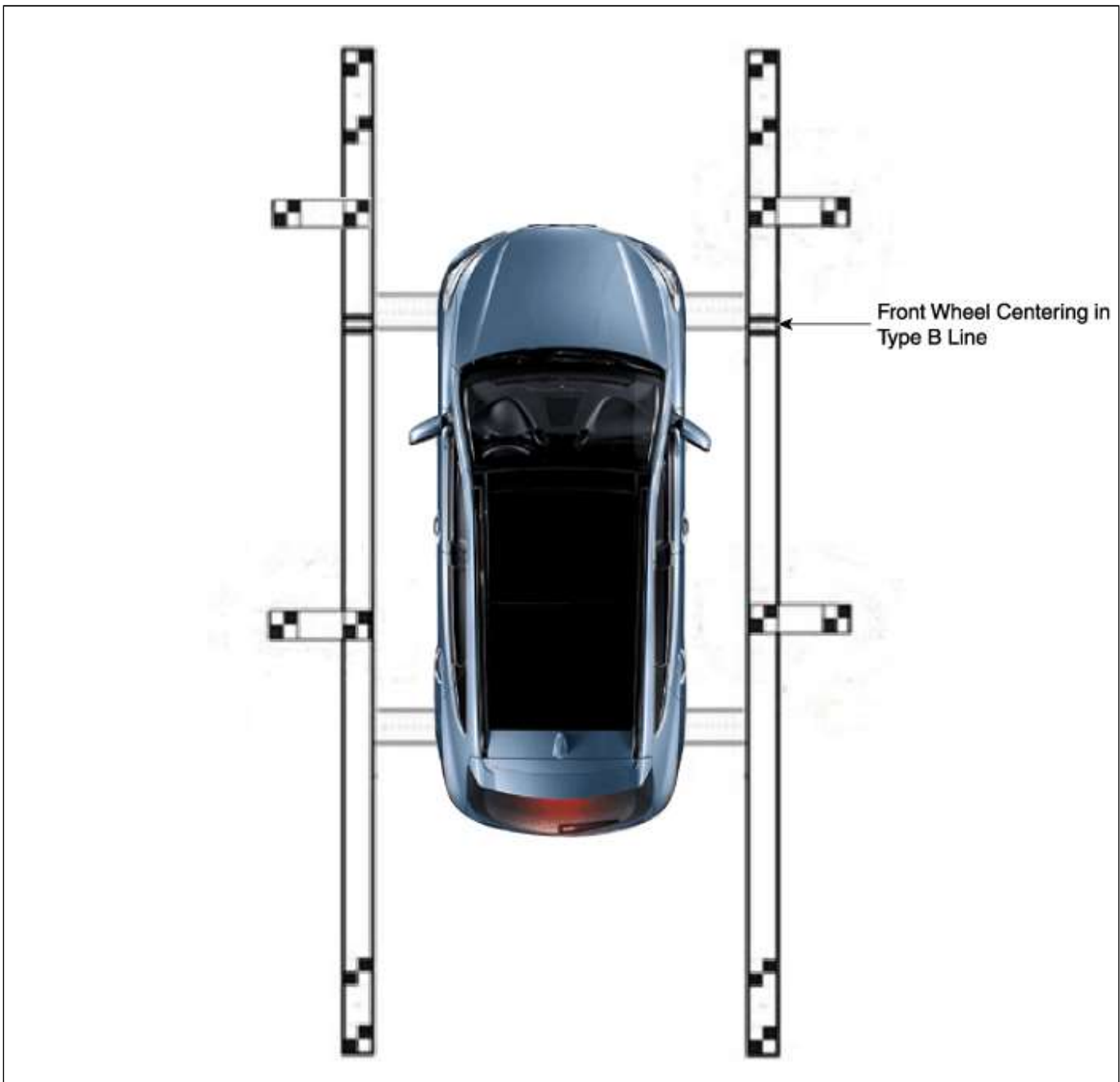
Tolerance Compensation

Tolerance compensation compensates for the error margins of around view video that occur due to the installation tolerance when the four cameras that comprise the SVM system are installed.

You must carry out tolerance compensation if you do any of the following.

- Remove and install a wide camera.
- Conduct a body task that causes the focus of the wide camera to change, such as a trunk task.
- Replace the door mirror that has a wide camera.
- Replace the around view monitoring unit.

Tolerance Compensation Environments



NOTICE

There are two types of tolerance compensation [manual tolerance compensation] and [automatic tolerance compensation].

The service center with the SVM exclusive workshop performs [automatic tolerance compensation].

The maintenance environment lacking an SVM exclusive workshop performs [manual tolerance compensation].

The Procedure of Manual Tolerance Compensation

1. Advanced preparations will be made according to the following.
 - Confirm that the car hood, trunk and door are closed.
 - The door is closed after getting in on the passenger side.
 - Unfold the side mirror if it is folded in.
 - Put the gear into neutral.
 - Confirm that LED turning signals are lighting up within the switch.

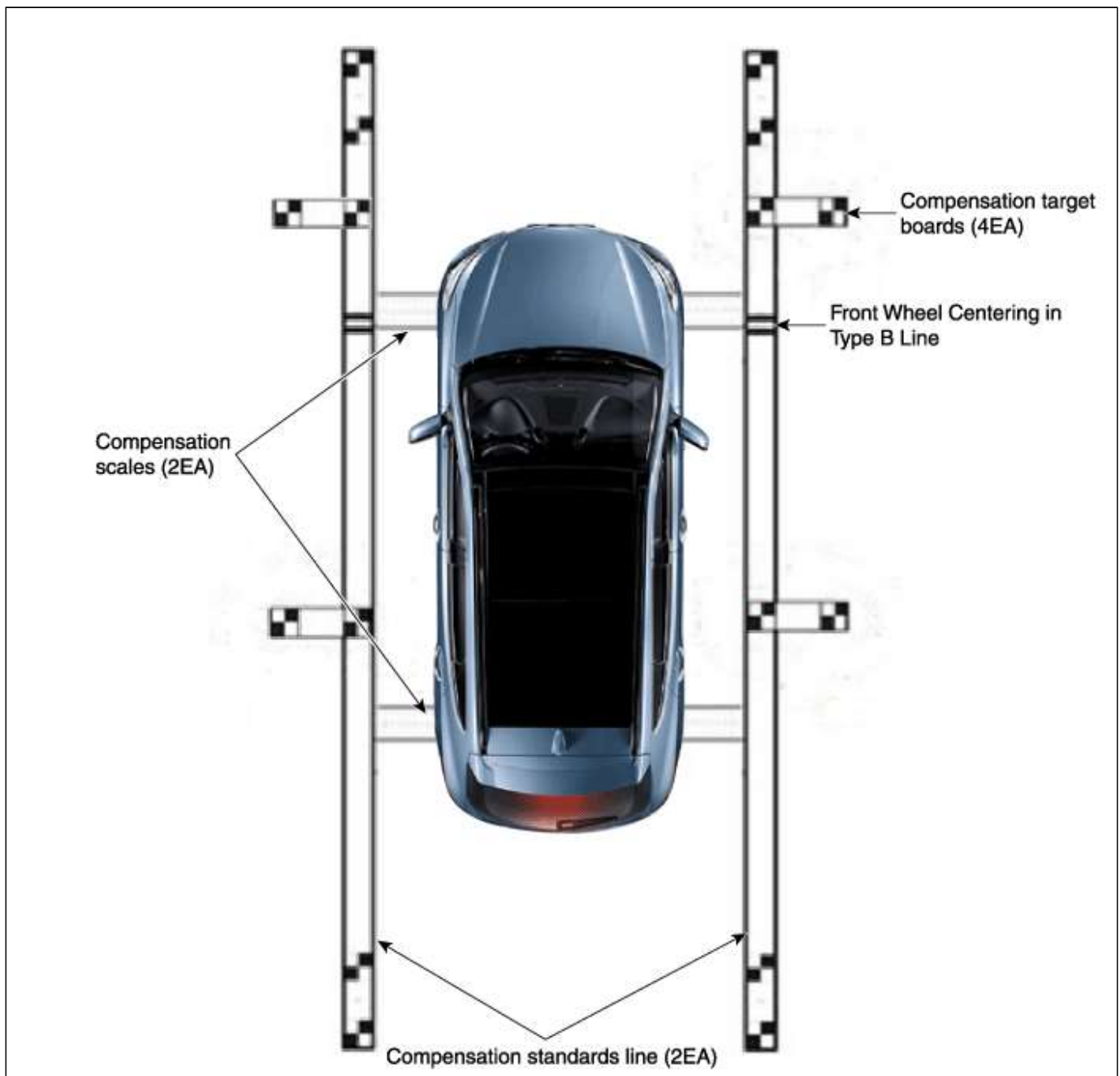
- In the preparation stage ahead of time an exhaust inhaler should not be installed as it can block the view of the rear camera.
 - Also, the exhaust from the exhaust pipe can create a smokescreen blocking rear footage, therefore after using a fan to clear the exhaust the compensation work should be performed while in IGN (ignition).
 - The foot brake or electro-mechanical parking brake should be engaged to prevent the car from moving.
2. The following processes will be performed to confirm whether or not the SVM ECU and camera are working properly before engaging tolerance compensation mode.
- Confirm that the initially set up video is showing up. (front view footage while the gear is in neutral + around view footage)
 - Confirm that footage from the front, back, left and right is showing up properly.
 - When the footage appears properly, the tolerance compensation mode will be engaged, and when footage is not showing up clearly or does not show up at all the part will have to be replaced.
3. Install around the vehicle by referring to the guide that was provided along with the compensation scales (2), compensation standard line boards (2), and compensation target boards (4).

⚠ CAUTION

When centering the wheels on the compensation standards line board, the A-type and B-type must be centered separately.

Caution should be taken because the center location of the white and black compensation plate consist of standard coordinates the accuracy(distance / right-angles) are very important.

- The front and rear / left and right centering should be maintained within a deviation of 3cm.
- When centering the vehicle the rotation deviation should be maintained within 1 degree on the side.



4. Keep the IG on while the car is stopped, confirm the location of the gear stick is on 'N' and engage the parking brake on a flat area.
5. Perform the work with the SVM switch in the vehicle set to 'ON.'
6. Perform SVM Calibration according to Diagnostic tool diagnostics display.

GDS Update

TSB

MORE ►



Fault Code Searching



ECU Upgrade



DTC Analysis



Data Analysis



**Actuation
Test**



**Flight
Record**



S/W Management



Multi Data Analysis



**Recorded
Data**



**Digital Before
Service**



Measurement

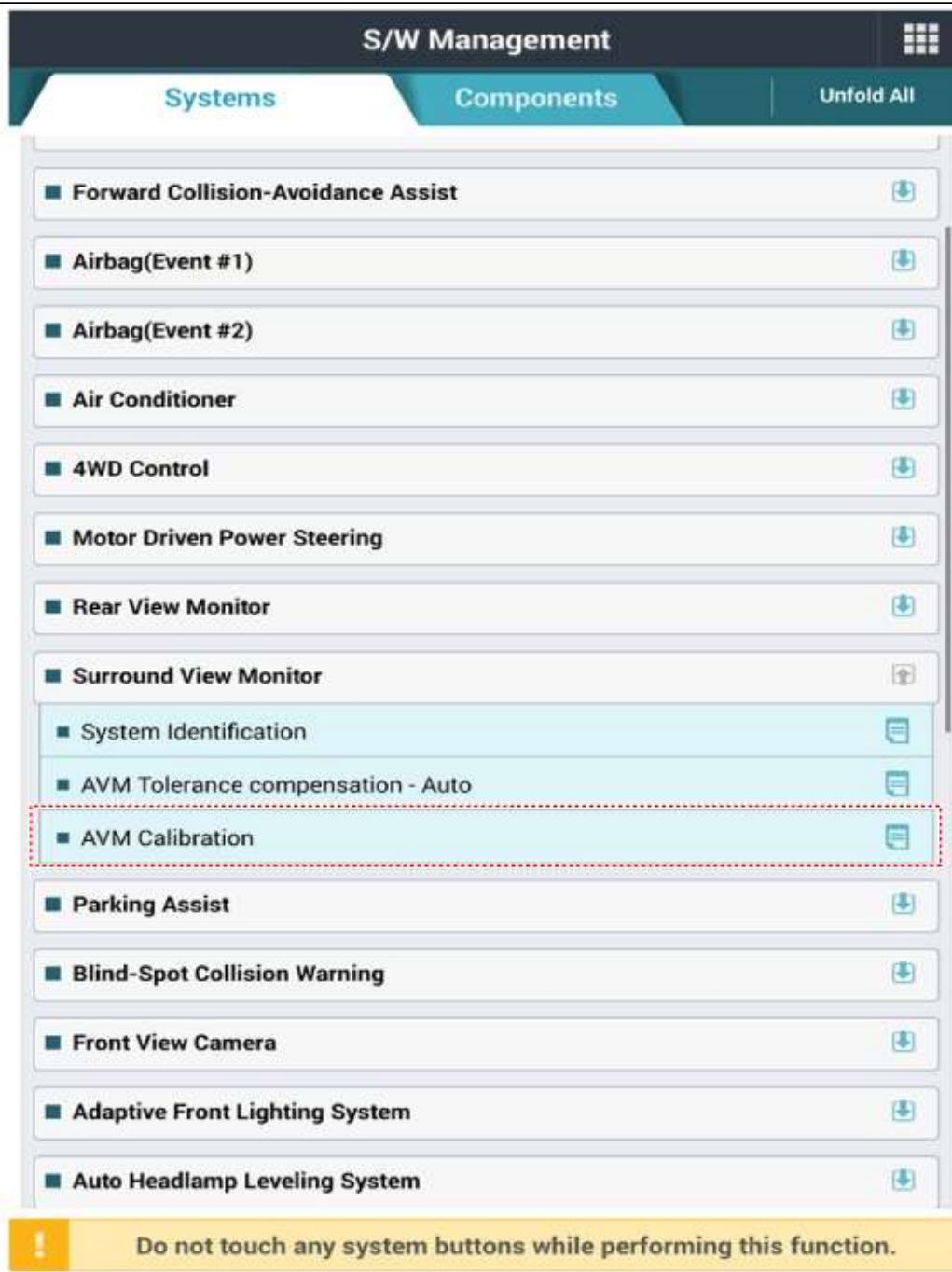


OBD- II



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7. Proceed with the AVM calibration according to the Diagnostic tool screen.

S/W Management

■ AVM Calibration

• [AVM Calibration]

This function is to calibrate the image tolerance in AVM system when AVM control unit or the cameras(front, rear, left, right) on the vehicle is replaced.

•[Condition]

1. Check engine hood/trunk/doors closed and outside mirrors unfolded.
2. Engine stop, IG ON, Gear position 'N', Parking Brake ON.
3. AVM system button 'ON'.
4. Install the AVM calibration target. (Refer to Shop Manual)

If this function is not performed when AVM control unit is replaced, AVM switch lamp will blink and DTC(B103000 : No Camera Tolerance Correction) will be set.

Click **[OK]** to proceed to next step.

OK

Cancel



Do not touch any system buttons while performing this function.

S/W Management

■ AVM Calibration

● [AVM Calibration Information]

1. Overlap the blinking cross box(+) on AVN monitor of vehicle to calibration coordinates of calibration target by using ►, ▶▶ and press **[OK]** button.
2. Overlap the other cross boxes to calibration coordinates of calibration target with same method and press **[OK]** button, then press **[Update AVM]** button to proceed to next camera.
3. With same method as front camera, perform the calibration procedure in order of rear → left → right camera.
4. Monitor the AVM update process with monitor after press **[Update AVM]** button when last camera calibration procedure is complete.
5. Check the proper image displaying on monitor.

≡ You can re-do the calibration procedure with **[Reset]** button.



Reset

Update AVM

Close



Do not touch any system buttons while performing this function.

⚠ CAUTION

- Before matching the calibration point : "+" blinks in green color.
- When you click [OK] after matching the calibration point : "+" turns on in red color.
- After matching 4 forward correction points, click [OK] button and click [Update AVM] button to move to the next camera calibration.
- Perform the calibration in the order of front -> rear -> left -> right camera.

Monitor calibration procedure : ① Front → ② Rear → ③ Left → ④ Right

①



②



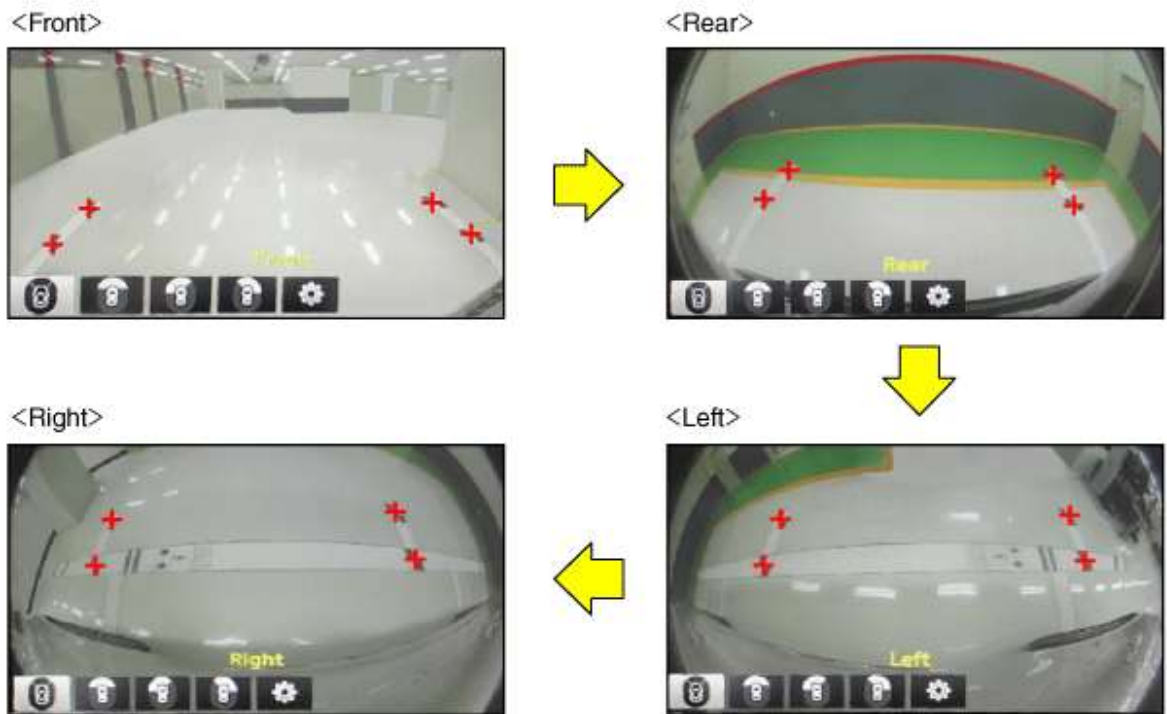
③



④



Monitor calibration procedure : Front → Rear → Left → Right

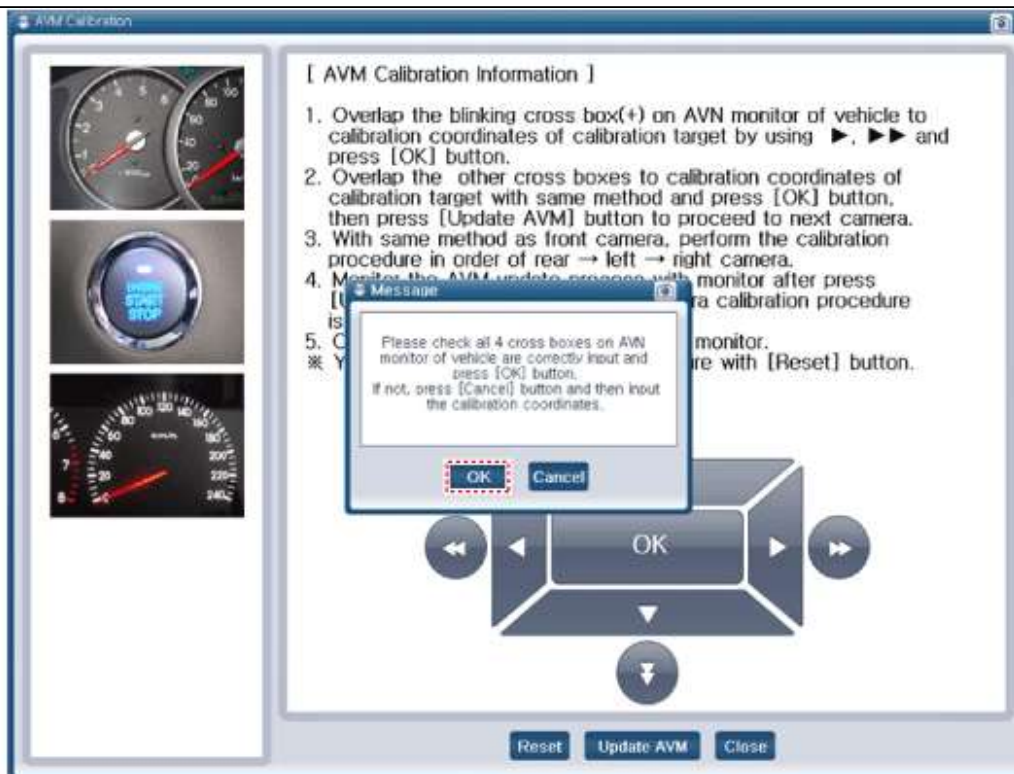


8. After checking the vehicle and calibration line on the AVN monitor screen to see if the calibration has been performed properly, press the [OK] button.
When calibration has not been performed properly, press the [Cancel] button to match the calibration points again.

[AVN Monitor]



[Diagnostic tool Screen]





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Description and operation

Description Surround View Monitor (SVM) is the system that allows video monitoring of 360 degrees around the vehicle. The system includes 4 ultra optical camera mounted around the vehicle (front, both sides, rear)...

Troubleshooting

Troubleshooting 1) After replacing H/UNIT, always check that the system operates properly...



Other information:

[Hyundai Palisade \(LX2\) 2020-2023 Owner's Manual: Curtain air bags](#)

Curtain air bags are located along both sides of the roof rails above the front and rear doors. They are designed to help protect the heads of the front seat occupants and the rear outboard seat occupants in certain side impact collisions. The curtain air bags are designed to deploy during certain side impact collisions, depending on the crash severity...

[Hyundai Palisade \(LX2\) 2020-2023 Service Manual: Schematic diagrams](#)

System Block Diagram Component Parts And Function Outline Component part Function Vehicle-speed sensor, ESP/ABS Control Module Converts vehicle speed to pulse. ECM Receives signals from sensor and control switches...

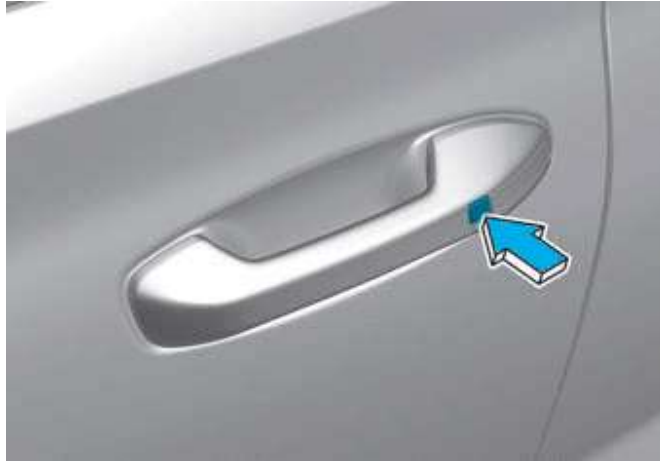
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Locking your vehicle



To lock your vehicle using the door handle button or the Smart Key:

1. Make sure all doors, the hood and the liftgate are closed.
2. Make sure you have the smart key in your possession.

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