

ADAS Component Calibration

NOTE: It is important to note that the driver assist systems are intended to work on the vehicle as it is designed. Any aftermarket alteration could cause a system to malfunction or not accept a correct calibration.

Component		When is Calibration Required	Notes
360 Degree Cameras	Front Camera	- When any camera is replaced or removed from the vehicle, the parking aid camera alignment must be performed.	- Elevation System Check and Azimuth System Check must be performed
	Rear Camera	- When a camera or any body component that a camera is attached to is removed or adjusted, the 360 degree view camera alignment must be performed.	- Elevation System Check and Azimuth System Check must be performed
	LH and RH Side Cameras	- When a camera or any body component that a camera is attached to is removed or adjusted, the 360 degree view camera alignment must be performed.	- Azimuth System Check must be performed
ADAS Module		- New ADAS module is installed	- Programmable Module Installation
Anti-Lock Brake System Module		- New ABS module is installed	- Programmable Module Installation - ABS Calibration - EPB Initialization - PCM PATS Programming Application - Module Initialization
Head Up Display Module		- A new HUD is installed	- Programmable Module Installation
		- The HUD is removed and reinstalled or replaced - The instrument panel is removed and installed or replaced - A new windshield is installed	- HUD Calibration • If the system is not calibrated, the images may be distorted or display improperly.
Image Processing Module A		- New IPMA is installed	- Programmable Module Installation - IPMA Camera Alignment
Image Processing Module B		- New IPMB is installed	- Programmable Module Installation - Parking Aid Camera Initialization - 360 Degree View Camera Alignment
Lane Keeping Camera		- When a windshield, camera or IPMA is replaced - If the windshield is removed for structural repairs that affect windshield position - Change in tire size - Suspension repair or alignment - Front air bag deployment	- IPMA Camera Alignment - Lane keeping systems are developed and calibrated based on the manufacturer's specified ride height and wheel/tire combinations. If the ride height or wheels have been altered this will affect system accuracy.
Side Obstacle Detection Modules		- New SODL or SODR module is installed	- Programmable Module Installation



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11/2021

ADAS Component Calibration (cont'd)

Component	When is Calibration Required	Notes
Cruise Control Module and Radar Sensor	- New CCM is installed	- Programmable Module Installation - Cruise Control Radar Alignment
	- When a vehicle has been in an accident	- The radar sensor requires a vertical check and adjustment. - After the vertical check and adjustment, a horizontal alignment procedure must be performed during the road test using the calibration routine found in the diagnostic scan tool.
	- Whenever the sensor itself or the bracket support in which it is mounted is removed from the vehicle for access	- The radar sensor requires calibration, consisting of a vertical mechanical adjustment followed by a horizontal alignment.
Parking Assist Control Module (PAM)	- New PAM is installed	- Programmable Module Installation
Parking Aid Sensors	- Whenever a sensor is removed and reinstalled or replaced	- Azimuth System Check must be performed
Active Park Assist Sensors	- Whenever a sensor is removed and reinstalled or replaced	- Azimuth System Check must be performed



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