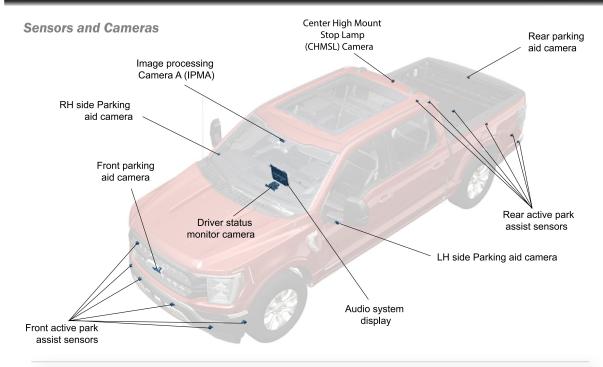
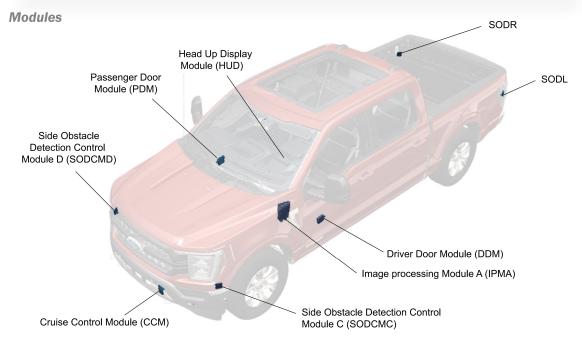


2021 F150 ADAS Location Views









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. 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
	Rear Camera		- Elevation System Check and Azimuth System Check must be performed
	LH and RH Side Cameras		- 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 InstallationParking Aid Camera Initialization360 Degree View CameraAlignment
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

ADAS Component Calibration (cont'd)

Component	When is Calibration Required	Notes
	- New CCM is installed	- Programmable Module Installation - Cruise Control Radar Alignment
Cruise Control Module and Radar Sensor	- 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