

Advanced Driver Assistance Technology

Common Naming Terminology

DRIVING CONTROL ASSISTANCE

Adaptive Cruise Control	Assists with acceleration and/or braking to maintain a prescribed distance between it and a vehicle in front. Some systems can come to a stop and continue.
Active Driving Assistance	Assists with vehicle acceleration, braking and steering. Some systems are limited to specific driving conditions. Driver is responsible for primary task of driving.
Lane Keeping Assistance	Assists with steering to maintain a vehicle within driving lane.

COLLISION WARNINGS

Blind Spot Monitoring	Detects vehicles to rear in adjacent lanes while driving and alerts the driver to their presence.
Forward Collision Warning	Detects impending collision while traveling forward and alerts driver. Some systems include pedestrian or other object detection.
Lane Departure Warning	Monitors Vehicle's position within driving lane and alerts driver as the vehicle approaches or crosses lane markers.
Parking Obstruction Warning	Detects obstructions near vehicle during parking maneuvers.
Rear Cross Traffic Warning	Detects vehicles approaching from the side and rear of vehicle while traveling in reverse and alerts driver.

COLLISION INTERVENTION

Automatic Emergency Braking	Detects Potential collision while traveling forward, provides forward collision warning and automatically applies the brakes to avoid or lessen the severity of impact. Some systems include pedestrian or other object detection.
Automatic Emergency Steering	Detects potential collision and automatically controls steering to avoid or lessen the severity of impact. Some systems include pedestrian or other object detection.
Rear Automatic Braking	Detects potential collision while traveling in reverse and automatically applies the brakes to avoid or lessen the severity of impact. Some systems include pedestrian or other object detection.

PARKING ASSISTANCE

Rear Automatic Braking	Controls steering and potentially other functions during parking. Driver may be responsible for acceleration, braking and gear position. Some systems are capable of parallel and/or perpendicular parking.
Remote Parking	Parks vehicle without driver being physically present inside the vehicle. Automatically controls acceleration, braking, steering and shifting.

OTHER DRIVER ASSISTANCE SYSTEMS

Rear Automatic Braking	Switches between high and low beam headlamps automatically based on lighting, surroundings and traffic.
Backup Camera	Provides view of area behind vehicle when in reverse. Could include trailer assistance, a system that assists drivers during backing maneuvers with a trailer attached.
Driver Monitoring	Monitors drivers to determine if they are actively engaged in the task of driving. Some systems monitor driver's eye movement and head position.
Head-Up Display	Projects image of vehicle data and/or navigational info into the driver's forward line of sight.
Night Vision	Aids driver vision at night by projecting enhanced images on instrument cluster or head-up display.
Surround-View Camera	Uses cameras located around vehicle to present view of surroundings.

Active Driving Assistance is also referred to as Level 2 semi-autonomous self-driving.