

Lexus Safety System + A

With the aim of realizing a society in which there are zero casualties from traffic accidents, which helps to prevent the four major types of accidents:

Rear-end collisions
with vehicles

Vehicle-pedestrian
collision

Accidents due to
lane deviation

Vehicle-on-vehicle
collision at intersections

Advanced active safety package that covers these four major types of accidents

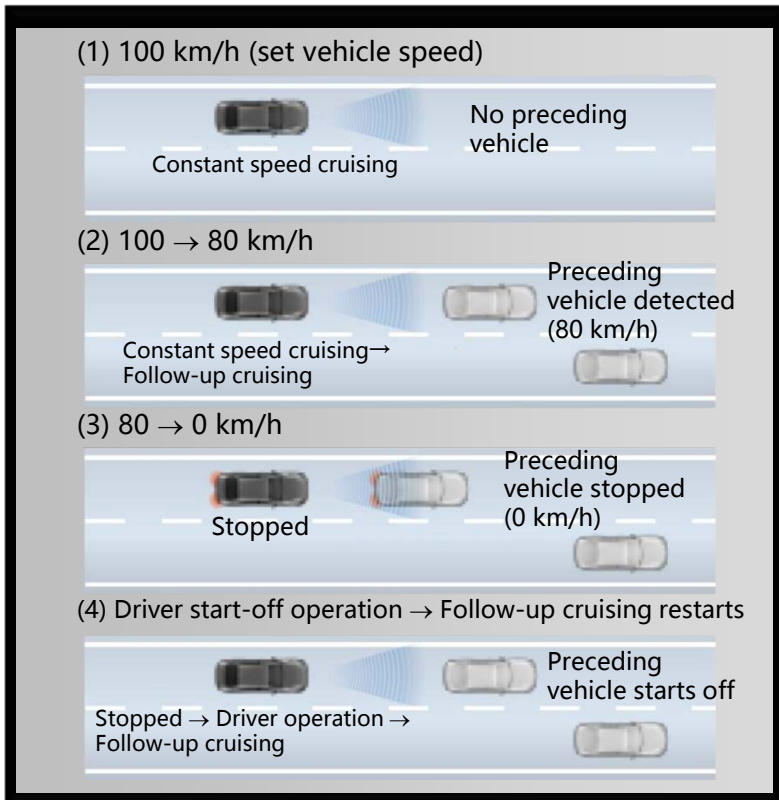
Lexus Safety System +

Additional advanced active safety features

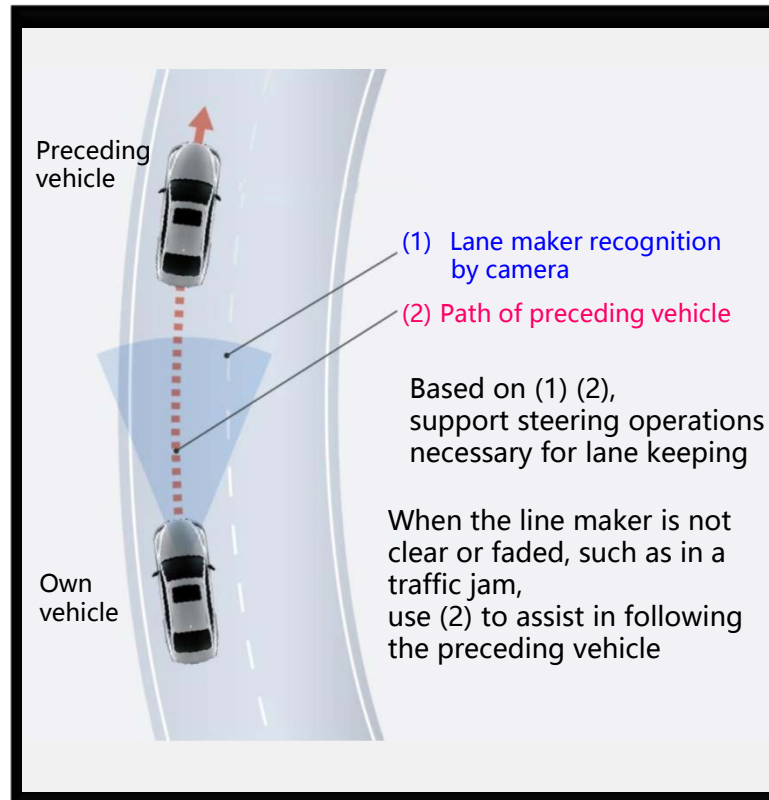
Lexus Safety System + A

Function that provides steering support that is in line with the intentions of the driver and lane-changing support

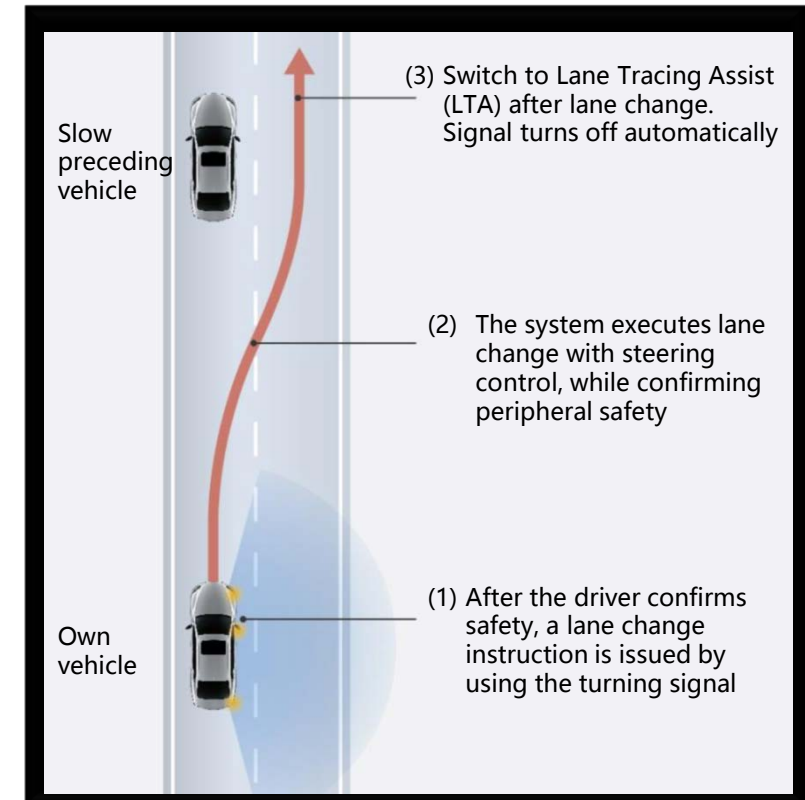
Dynamic Radar Cruise Control



Lane Tracing Assist



Lane Change Assist (Japan only)



Lexus CoDrive: Lane Tracing Assist (LTA)

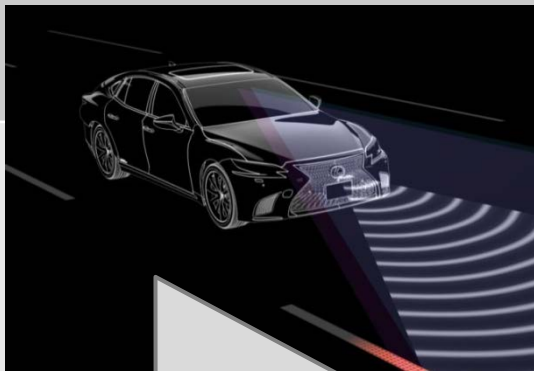
LEXUS First

Lexus Safety System + A

Connecting the driver and the vehicle by advanced and easy-to-understand HMI. It is a next-gen advanced driving support through interaction with driver

(1) Cooperative Control

Steering control support in accordance with the driver's intention and feeling



Enhanced lane marking recognition accuracy
(high-sensitivity imager and trajectory path prediction logic)

Enhanced feel
(cooperative steering control with driver)

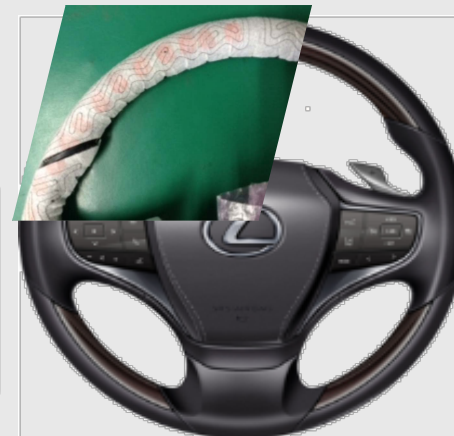
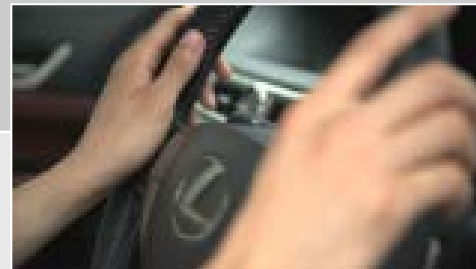
(2) HMI

Linked with large HUD



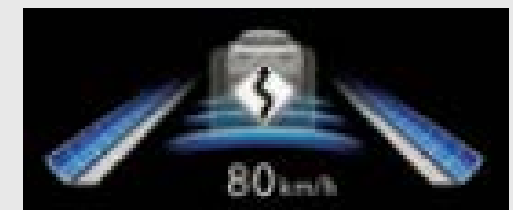
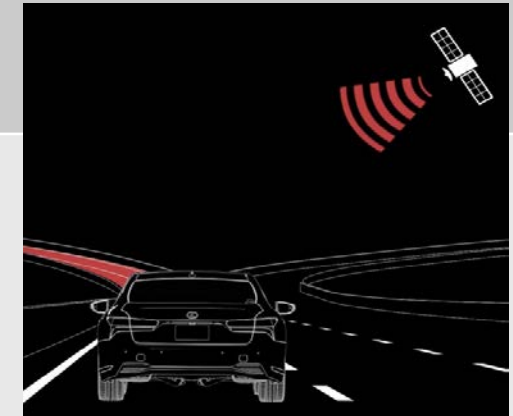
(3) Hands off Detection

Combining torque and capacitive sensors



(4) Map-linked

Decelerates in advance of curves

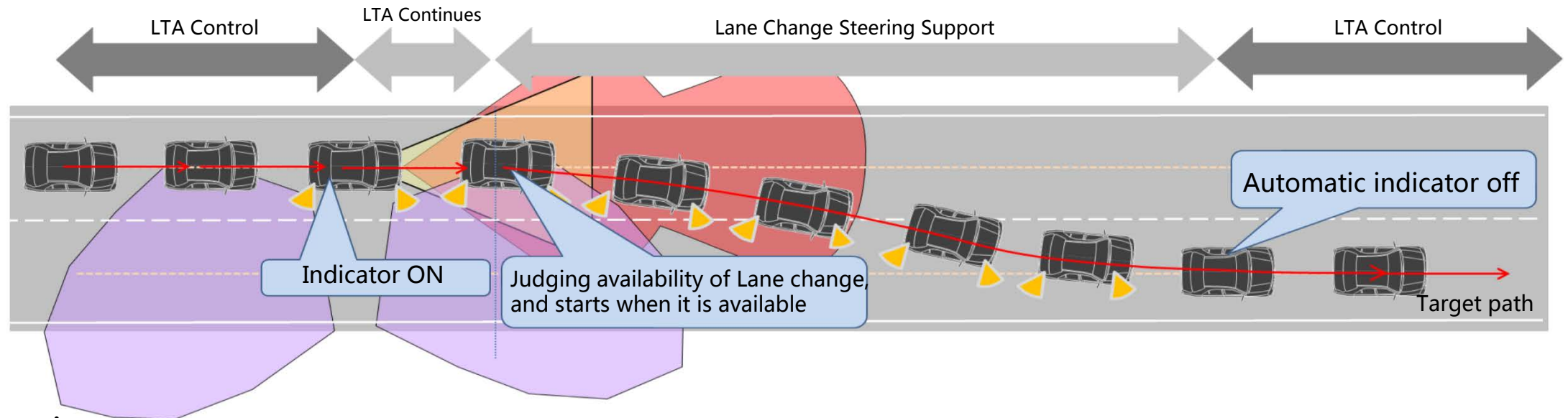


Lexus CoDrive: Lane Change Assist (LCA) *Japan only

LEXUS First

Lexus Safety System + A

Providing a seamless next-gen advanced driving support through lane change support with acceleration/deceleration control and cooperative steering support with surround monitoring



Selling points

(1)Monitoring range

Front radar
Front camera
Front/Rear corner radar

(2)HMI

Large HUD



(3)Steering

Cooperative control
(turns off when steering returned)

(4)Speed control

ensuring space with automatic deceleration

(5)ACC after LCA

Control linked with accel./decel. depending on if preceding car is present/absent

(6)Indicator off

Indicator automatically turns off after LCA is completed

Pre Collision System with Pedestrian Alert

World First

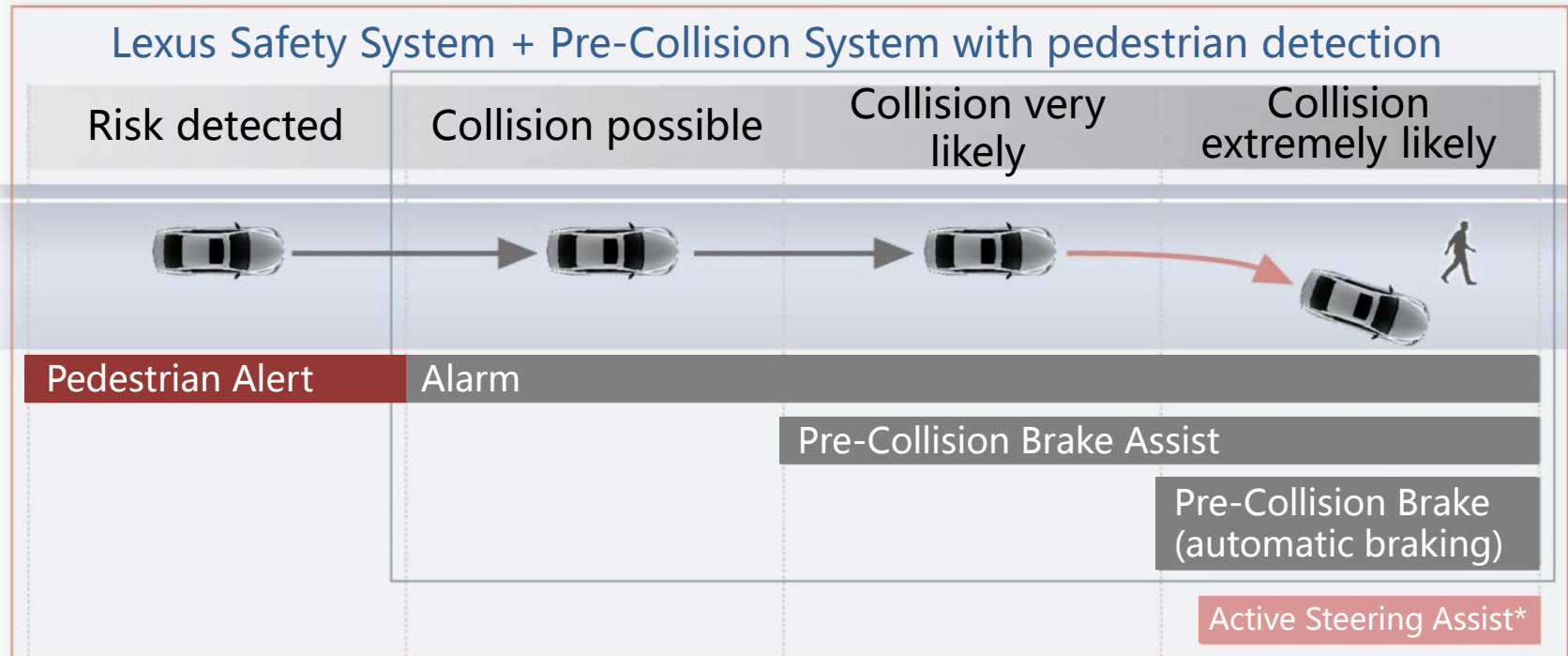
Lexus Safety System + A

If there is the possibility of collision with a pedestrian ahead, the direction of the pedestrian's presence is shown in an animation via the large color HUD, contributing to intuitive recognition on the part of the driver.

Large color HUD (Image)



Lexus Safety System + A Pre-Collision System



*: Activates when the system determines that collision possibility is high with braking alone and that a collision can be avoided with steering control

** : Activation of Active Steering Assist depends on driving speed, environment and so on

Pre-collision Safety System (Active Steering Assist)

World First

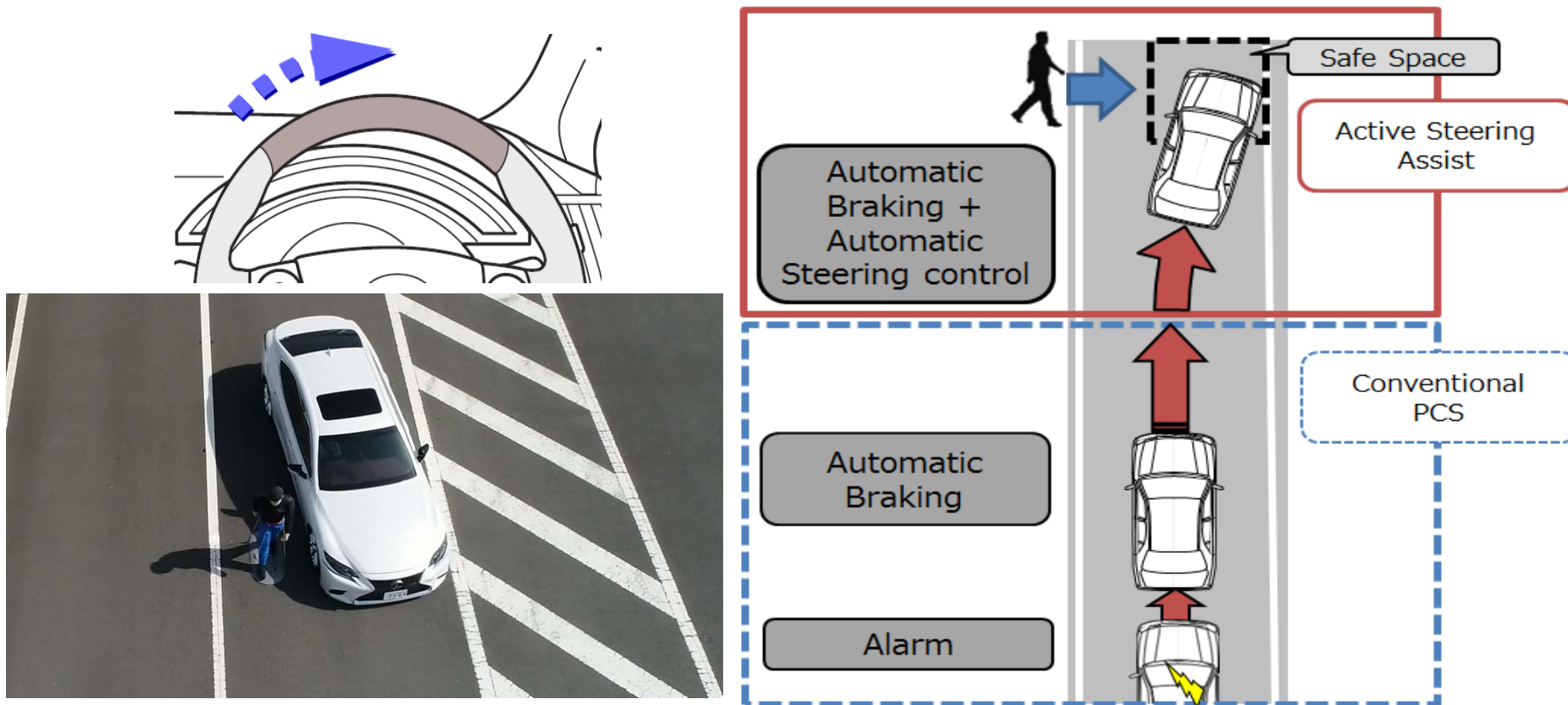
Lexus Safety System + A

The system assists in collision avoidance or collision damage mitigation through automatic steering control in addition to activating an alert and applying the brakes.

Note: *Activates when the system determines that collision is high with braking alone and that a collision can be avoided with steering control

**Activation of Active Steering Assist depends on driving speed, environment and so on

Automatic braking and Automatic steering control

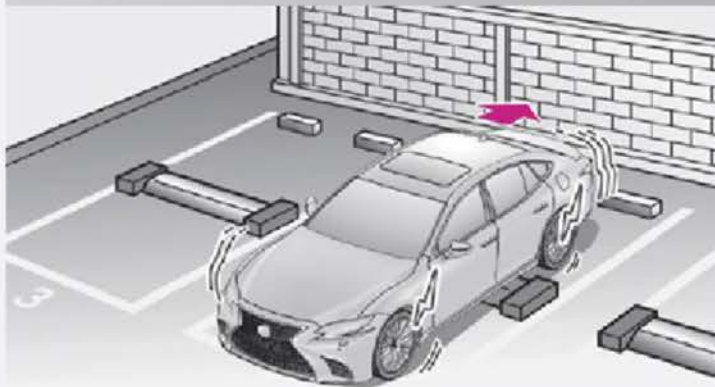


Parking Support Brakes

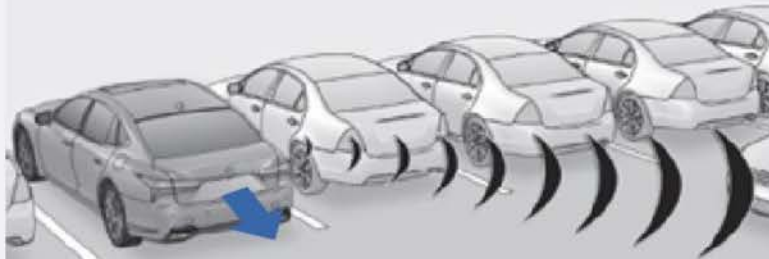
World First

In addition to the existing system for obstacles such as walls and rear-crossing vehicles, the system detects rear pedestrians and helps to reduce the impact of the collision by warning and braking.

Intelligent Clearance Sonar (ICS)



Rear Cross Traffic Auto Brake (RCTAB)



Rear Pedestrian Support Brake



Rear pedestrians

Rear crossing vehicles

Static objects