

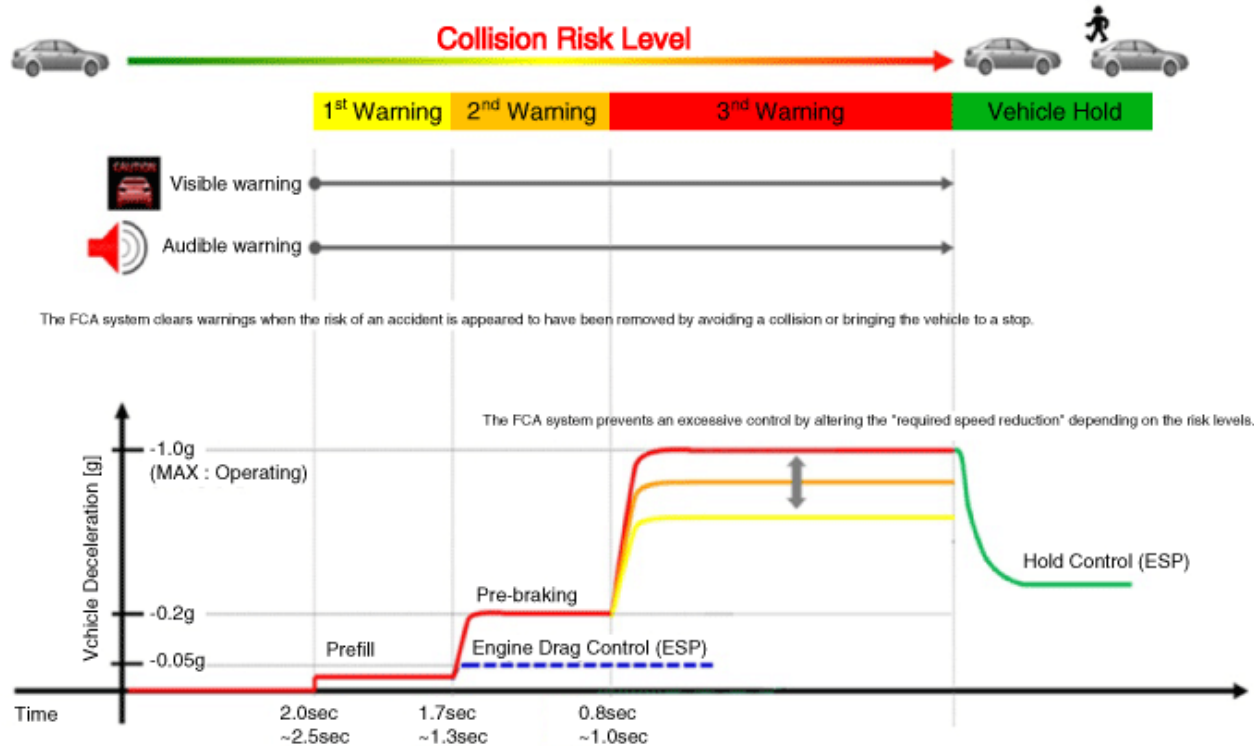


## Description

- The Forward Collision-Avoidance Assist (FCA) radar sends a signal to detect the vehicle in front, based on the calculated distance the FCA applies the brakes in order to avoid or lessen collision with the vehicle in front due driver distraction or late braking response.
- The system detects the risk factors on the road by using the frontal impact sensor and warn the driver and activate the emergency brake to prevent collision or reduce collision speed.

## Operation

### ► Overview of FCA Activation



※ The time indicated will be changed according to vehicle speeds.

- Step 1: Issue a visual (display) and vocal alarm when a danger is detected.
- Step 2: Reduce engine torque and activates FCA when there is a high chance of collision.
- Step 3: Activate emergency brake when a collision is imminent.
- After stopping the vehicle: Maintain the braking control for a certain time and then release it.

### Information

- Braking power is adjusted depending on the risk levels of collision, but it is released immediately when it detects the driver's action to avoid a collision.
- 1) When it exceeded the maximum operation speed.
  - 2) When it detected driver's action to avoid a collision such as sudden steering changes.
  - 3) When the shift lever is in R or P
  - 4) When you pressed the accelerator pedal half way.

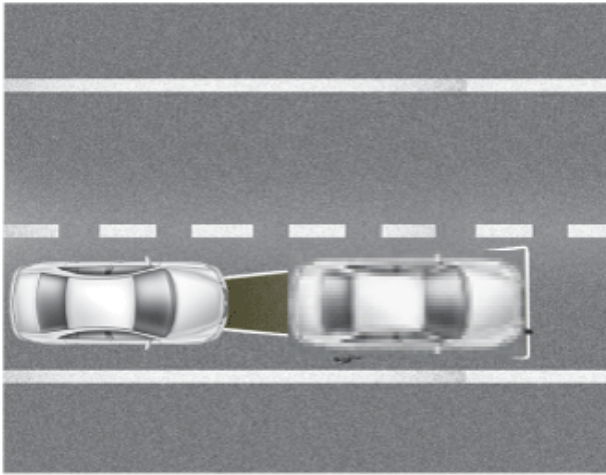
### CAUTION

- 1) When you drive at 80km/h or faster, the system does not go to step 3 of emergency braking.
  - Full auto braking is not available.
- 2) While driving at 80km/h or slower on a straight or slightly curved road, the system performs three steps after issuing a warning.
  - But a collision may occur at 30km/h or faster depending on the road conditions.
- 3) While driving at 80km/h or slower on a straight or slightly curved road, after a visual and vocal warning, FCA is activated to reduce the vehicle speed.
- 4) At 80km/h or faster, it's impossible to avoid a collision. Offset should be less than 50%.
- 5) FCA does not work on the vehicles backing up or resisting.
- 6) At 70km/h or faster, it does not respond to pedestrians.

**i Information**

Offset : Rate of non-overlapping on the line between the front driving car and my car

1) Offset 0% :



2) Offset 100% :

