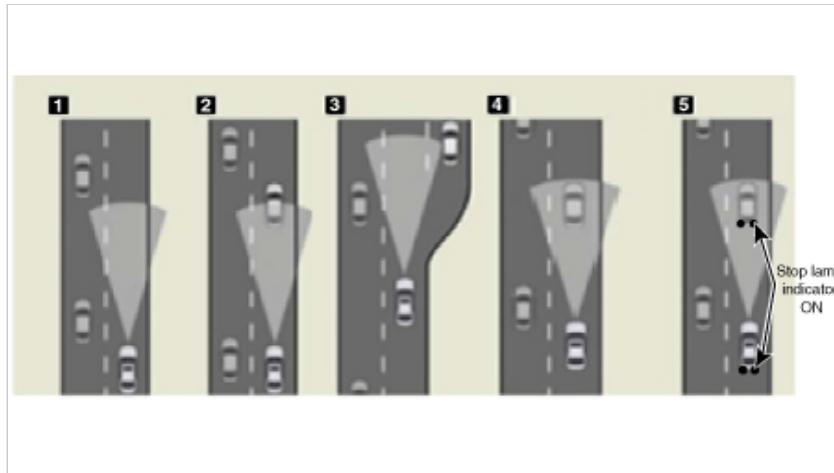




## Description

The smart cruise control system allows a driver to program the vehicle to control the speed and following distance by detecting the vehicle ahead without depressing the brake pedal or the accelerator pedal.

1. Cruise speed control: The vehicle maintains the selected speed if there are no vehicles ahead.
2. Retardation control: The vehicle decelerates if a vehicle ahead is detected.
3. Following distance control: The vehicle maintains the selected following distance.
4. Acceleration control: The vehicle accelerates to the selected speed if a vehicle ahead is not detected.
5. Congested area control : In traffic, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving, your vehicle will start as well. However, if the vehicle stops for more than 3 seconds, you must depress the accelerator pedal or push the RES+ switch to start driving.



### 6. Control on curves

- (1) The sensor may not detect a vehicle ahead or may detect a vehicle on other lanes because the detection range of the sensor is limited.
- (2) On curves, if the vehicle equipped with the SCC is driving at high speed, the vehicle can slip outside. Therefore reduce the speed on curves even if there is no vehicle ahead.
- (3) If a vehicle ahead enters on curve while following a vehicle on a straight road, the vehicle equipped with the SCC may accelerate to keep the following distance.
- (4) At curve road, if a front vehicle disappears, the vehicle does not accelerate to the designated speed. It maintains previous speed to prevent repetitive acceleration/deceleration. (If driver changes the lane or pushes the accelerator pedal, then the vehicle accelerates)

### 7. Warning alarm

If the vehicle equipped with the SCC decelerates because a vehicle ahead decelerates or moves into your lane, the warning will operate.

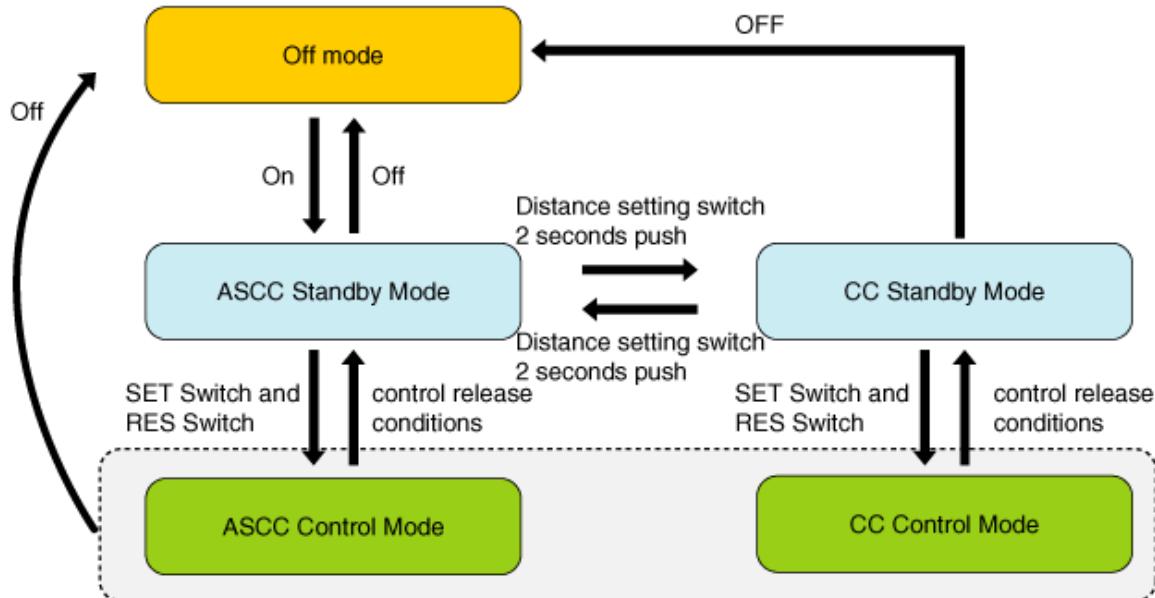
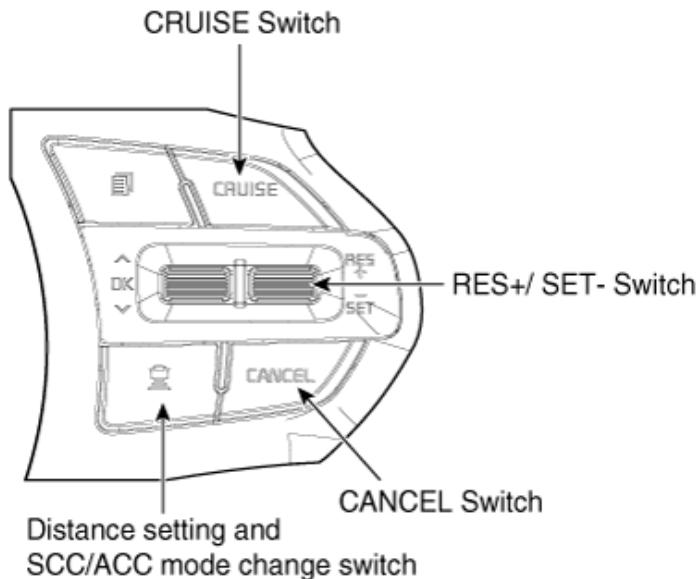
- (1) In case that the vehicle equipped with SCC is able to decelerate properly by the system – No warning
- (2) In case that the vehicle equipped with SCC is not able to decelerate properly by the system
  - LCD Display in the cluster will blink and the warning buzzer will sound. (The warning and deceleration by the system will go on until the brake pedal is applied.)
- (3) If the vehicle ahead (vehicle speed: less than 30km/h) disappears to the next lane while controlling following distance, the warning chime will sound and a message will appear. Adjust your vehicle speed for vehicles or objects that can suddenly appear in front of you.

### 8. Accelerating by driver

Even when the vehicle is being decelerated by the SCC system, the vehicle can be accelerated by applying the accelerator pedal. When the SCC system is on and driver depresses the accelerator pedal, the LCD display in the cluster will blink.

#### **NOTICE**

- Smart cruise control operating conditions



- Vehicle speed at approximately 30 - 200km/h (18.6mph - 124.2mph) : When there is no vehicle in front
- Vehicle speed at approximately 0 - 200km/h (0mph - 124.2mph) : When there is a vehicle in front
- Transmission in D or Sports mode
- "ESP OFF" switch OFF
- "CRUISE" switch ON

Under the above conditions, activate the cruise system using the "SET/-" or "RES/+" switch.

- Smart cruise control disabling conditions
  - "CRUISE" switch OFF
  - "CANCEL" switch ON
  - Brake pedal applied
  - Driver's door opened
  - Vehicle speed at more than approximately 200km/h (124.2mph)
  - Transmission in N or P or R
  - ESP/ TCS / ABS operating
  - An accelerator pedal applied for more than 300 sec
  - "ESP OFF" switch ON (ESP OFF indicator ON)
  - Parking brake applied
  -

- System failure (The warning indicator ON)
- Crack, damage or wrong installation of smart cruise control unit cover (The warning indicator ON)
- Yaw rate sensor offset compensation incomplete

## 9. Function of cruise control

The driver may choose to only use the cruise control mode (speed control function) by doing as follows:

When the Smart Cruise Control system is on (SCC Standby mode), push the distance to distance switch for more than 2 seconds. "Smart cruise control (SCC) mode" and "Cruise control (CC) mode" can be selected. The speed control of the cruise control mode is the same as that of the smart cruise control mode.

When using the cruise control mode, the driver must manually access the distance to other vehicles as the system will not automatically brake to slow down for other vehicles.

## Cruise main switch (CRUISE)

The smart cruise control system is engaged by pressing the cruise "ON/OFF" main switch.

### Set/Coast switch (SET/-)

The "SET/-" switch located on the right-hand side of steering wheel column has two functions.

The set function - Push the "SET/-" switch and release it at the desired speed. Release the accelerator pedal. The desired speed will automatically be maintained.

At low speed of 10 - 180km/h (6mph - 111.8mph), there should be a vehicle in front of driver's vehicle. The target speed is set to 30km/h (20mph).

The coast function - Push the "SET/-" switch and hold it when the smart cruise control is on. The vehicle will gradually slow down. Release the switch at the desired speed.

The desired speed will be maintained. Push the "SET/-" switch and release it quickly.

When pushing and releasing the "SET/-" switch quickly, the cruising speed will decrease by 1.0 mph. Also, when pushing and holding the "SET/-" switch, the cruise speed will decrease by 5.0 mph.

#### **NOTICE**

If the vehicle speed is above the set speed by applying the accelerator pedal, the vehicle speed will be the set speed.

### Resume/Accel switch (RES/+)

The "RES/+" switch located on the right-hand side of steering wheel column has two functions.

The resume function - If any method other than the cruise "ON/OFF" main switch was used to cancel cruising speed temporarily and the system is still activated, the most recent set speed will automatically resume when the "RES/+" switch is pushed.

The accel function - Push the "RES/+" switch and hold it when the smart cruise control is on. The vehicle will gradually accelerate. Release the switch at the desired speed. The desired speed will be maintained.

When pushing and releasing the "SET/+" switch quickly, the cruising speed will increase by 1.0 mph. Also, when pushing and holding the "RES/+" switch, the cruising speed will increase by 5.0 mph.

### Cancel switch (CANCEL)

The cruise control system is temporarily disengaged by pushing the "CANCEL" switch.

### Following distance control switch

This system assists you to set the distance from the vehicle ahead and maintain the selected following distance even when you do not push the accelerator or the brake pedal.

Select the appropriate following distance according to road conditions and vehicle speed.

Each time the button is pressed, the following distance changes as follows:

e.g., Distance 4 → Distance 3 → Distance 2 → Distance 1 → Distance 4

If you drive at 90 km/h (55.9 mph), the following distance maintains as follows:

Distance 4 - approximately 52.5m (172.2ft)

Distance 3 - approximately 40m (131.2ft)

Distance 2 - approximately 30m (98.4ft)

Distance 1 - approximately 25m (82.0ft)

The following distance of each stage is changed according to the speed of the vehicle ahead.