

CRUISE CONTROL**8530-10****GENERAL INFORMATION****1. SPECIFICATIONS**

Category		Specifications	
Cruise control switch	Rated voltage	DC 5 V	
	Operating temperature	-30°C to +80°C	
	Switch type	SET+/RES -	
		ON/OFF	
		CANC	
		Up/Down self return type	
		Push self return type	

Modification basis	
Application basis	
Affected VIN	

2. TRAFFIC CONDITIONS

Use the cruise control system when the vehicle is driven on a motorway or highway with light traffic where the driving status is not expected to change suddenly by pedestrians and traffic lights.

WARNING

To prevent unexpected accidents due to uncontrollable situations, only use this function when driving on motorways and highways with light traffic. Never use this function when driving under the following conditions:

- Hard wind or crosswind
- Heavy traffic
- Slippery roads or hills

3. PRECAUTIONS

CAUTION

- Take into consideration road safety while driving at a constant speed using a cruise control system. Always be prepared to depress the brake and accelerator pedals according to the situations. The vehicle speed may vary and differ from the set speed when driving up and down a hill. Avoid
- using cruise control function when driving on hilly roads as much as possible. To ensure safe driving and protect the vehicle, use the engine brake and foot brake properly when driving on hilly roads. Always allow for extra distance between your vehicle and the vehicle ahead. Depress the brake pedal, if needed.
-

Modification basis	
Application basis	
Affected VIN	

OVERVIEW AND OPERATING PROCESS

1. OVERVIEW

The cruise control is an automatic speed control system that maintains a desired driving speed without using the accelerator pedal. The operating switch assembly is located on the right side of the steering wheel. The switch assembly consists of the buttons for speed up & set (SET +), speed down & return to set speed (RES -), cruise ON/OFF, stop (CANC) modes.

Pressing the auto cruise ON switch activates the auto cruise ready mode. Press the auto cruise SET + button to set the current vehicle speed as the target speed. To change the target speed, press the +(ACCEL) or -(DECEL) button.

2. COMPONENTS

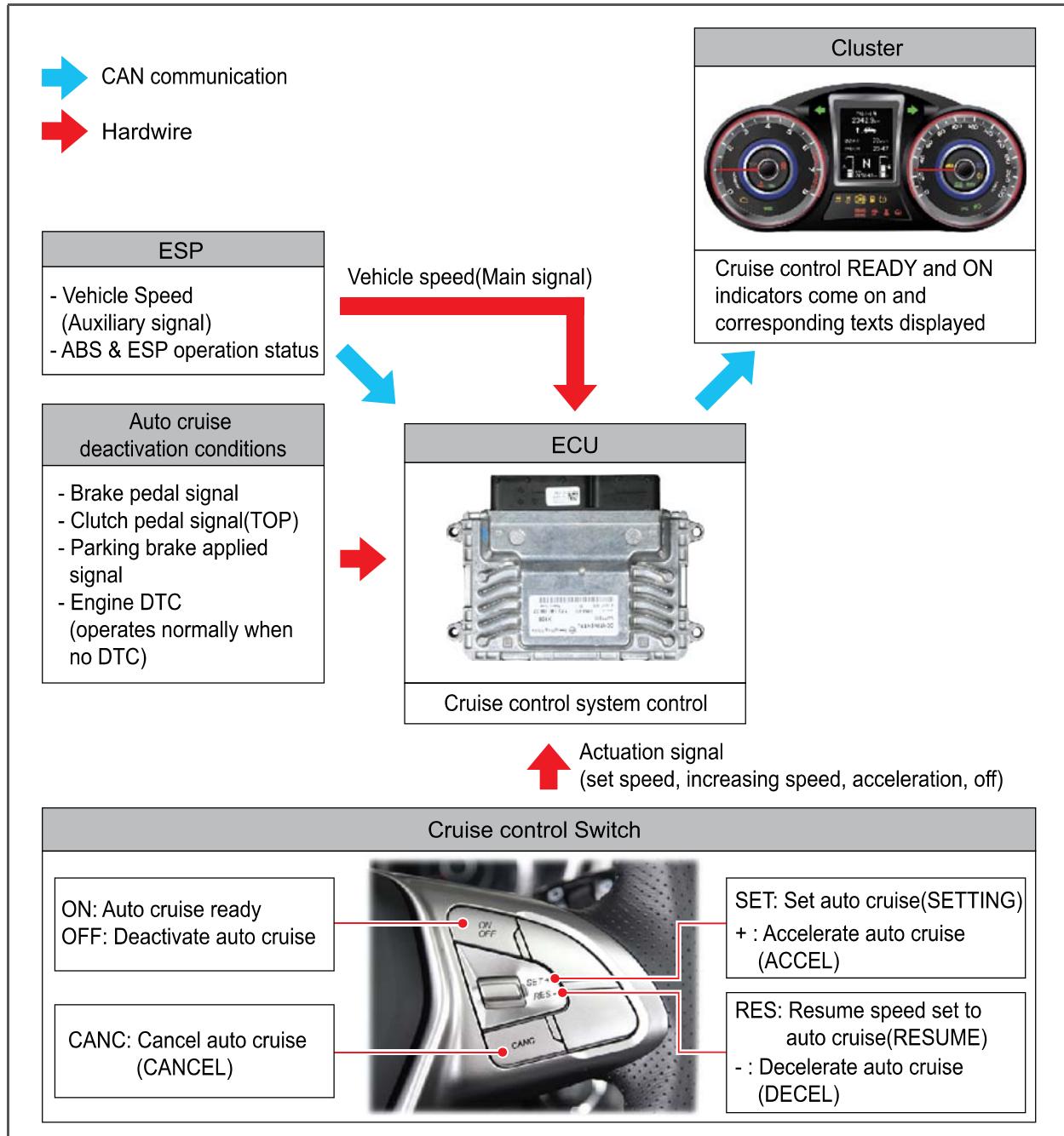


Modification basis	
Application basis	
Affected VIN	

3. OPERATING PROCESS

1) Input/Output Elements

The engine ECU detects the cruise control switch position and monitors the brake operating conditions, clutch conditions, and vehicle speeds, etc. The engine ECU maintains the set vehicle speed, increases, or decreases the vehicle speed according to the signals from the cruise control switch, unless a fault is detected during cruise control driving.



Modification basis	
Application basis	
Affected VIN	

2) Display and Indicators

Instrument cluster display (with supervision)		
Auto cruise ready	Auto cruise set	Auto cruise deactivated
		
Displayed when auto cruise is ready	Displayed when auto cruise is activated	Displayed when auto cruise is turned off from READY or ON state



Auto cruise READY indicator	Auto cruise ON indicator
READY	AUTO CRUISE

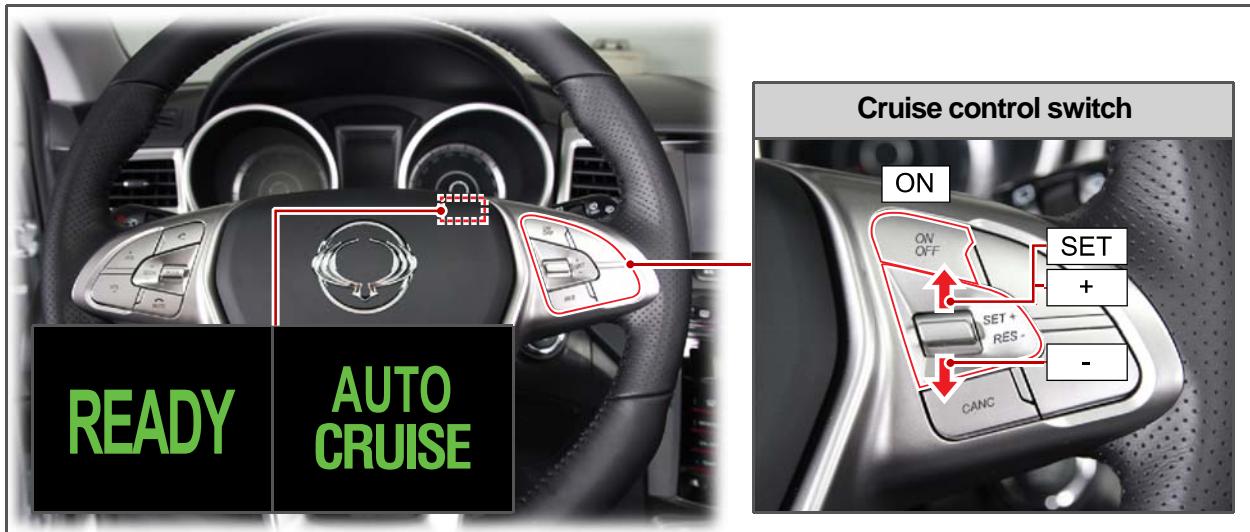
Comes on when cruise control is turned ON by cruise control ON/OFF switch

Comes on when auto cruise is activated

Modification basis	
Application basis	
Affected VIN	

4. HOW IT WORKS

1) How To Set Speed (Cruise Control ON)



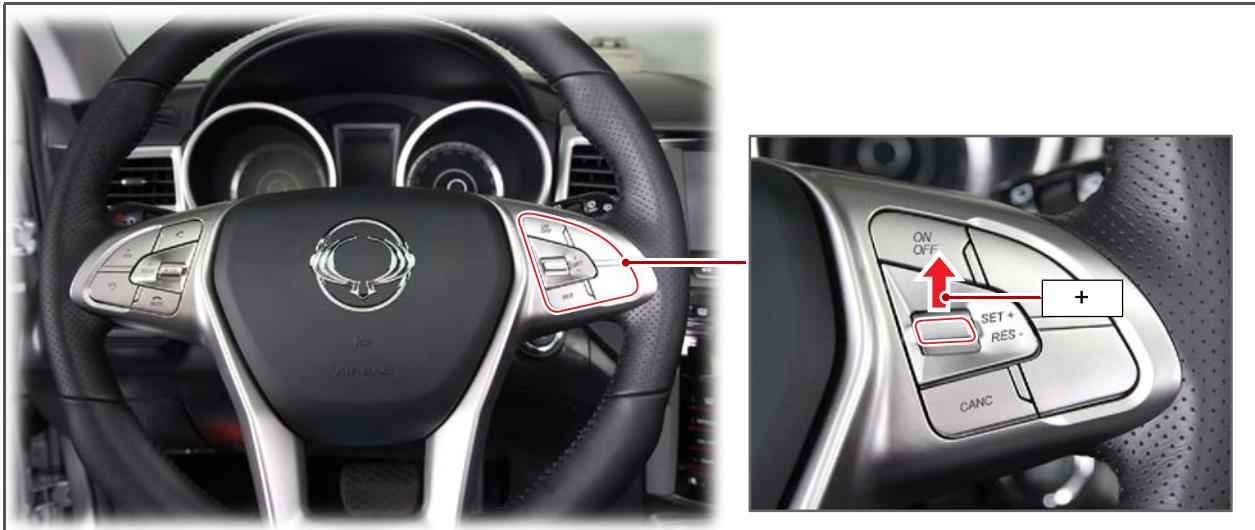
1. Drive the vehicle at speed between 40 and 140 km/h (cruise control operating speed) by depressing the accelerator pedal to activate the cruise control system.
2. Auto cruise set
 - a. Pressing the ON switch illuminates the auto cruise READY indicator on the instrument cluster and puts the auto cruise system into READY mode.
 - b. To maintain current vehicle speed, press the SET switch. This turns off the auto cruise READY indicator and turns on the auto cruise ON indicator on the instrument cluster.
 - c. After that, the vehicle is driven at the set speed (speed set when activating the cruise control system) without accelerator pedal depressed.
3. Pressing the +/- button after the step "b" increases/decreases the set speed.

⚠ CAUTION

Operating the cruise control switch is carried out while the vehicle is driven. Therefore, make sure that you fully understand and are familiar with the system before using the cruise control system. Failure to do so may lead to fatal accidents.

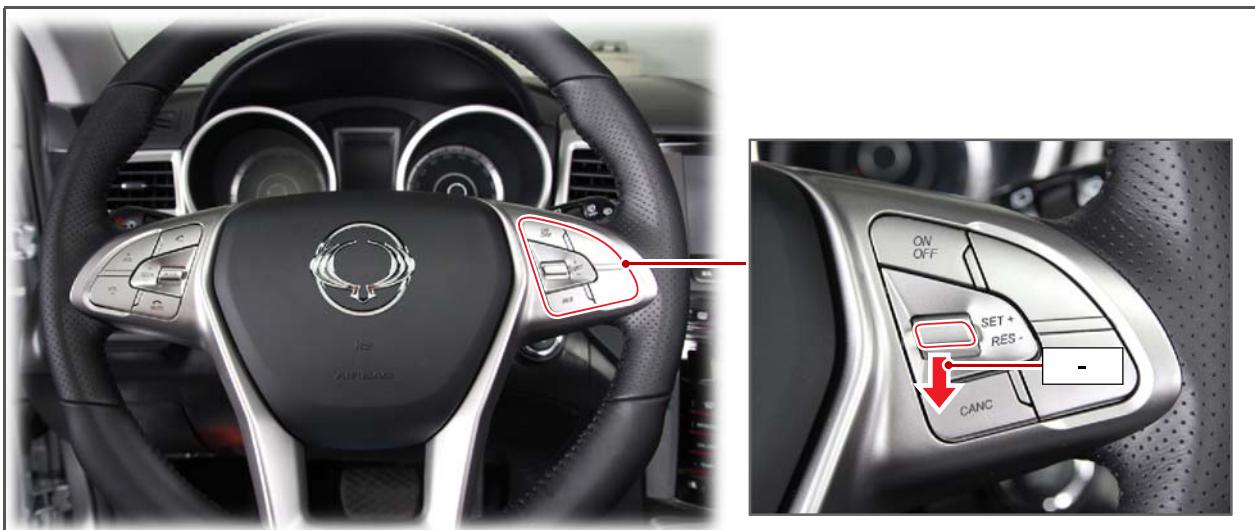
Modification basis	
Application basis	
Affected VIN	

2) Increasing Speed (ACCEL)



1. To increase the target speed, press the switch to +(ACCEL) until the desired speed is set with the cruise control in READY mode.
2. To increase the speed in 1 Km/h increments, press the +(ACCEL) switch for less than 0.5 sec.

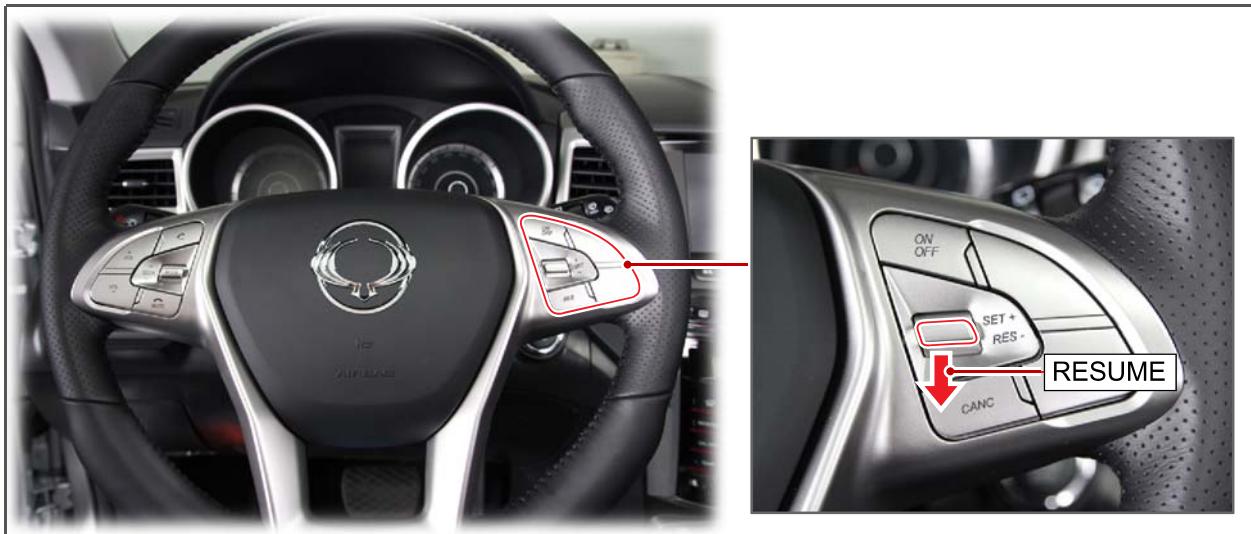
3) Decreasing Speed (DECEL)



1. To decrease the target speed, press the switch to -(DECEL) until the desired speed is set with the cruise control in READY mode. If the vehicle speed is below 38 km/h, the cruise control function will be deactivated.
2. To decrease the speed in 1 Km/h increments, press the -(DECEL) switch for less than 0.5 sec.

Modification basis	
Application basis	
Affected VIN	

4) Restoring Set Speed (RESUME)



When the CANC (CANCEL) switch is pressed accidentally or the cruise control system is deactivated, pressing the switch to RES- direction will restore the cruise control system to the speed before deactivation. The speed should be 40 km/h and the brake or accelerator pedal should not be depressed. (Deactivation by cruise control OFF switch will not restore the previous set speed)

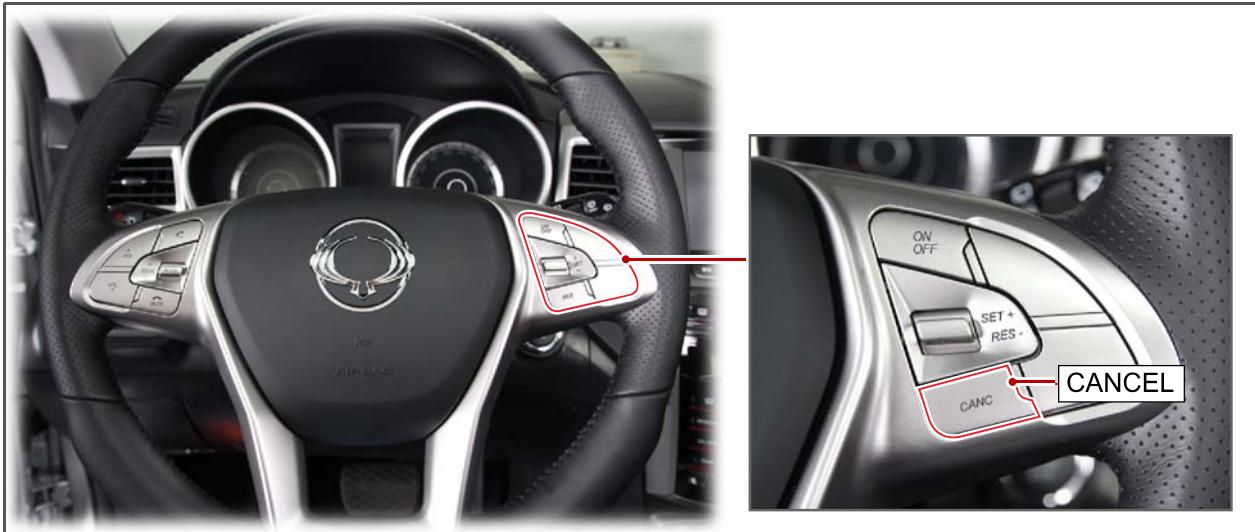
NOTE

To deactivate cruise control

- Depress the brake pedal or activate ESP.
- Drive the vehicle at less than 38 km/h.
- Apply the parking brake while the vehicle is driven.
- Depress the clutch pedal to change the gear.

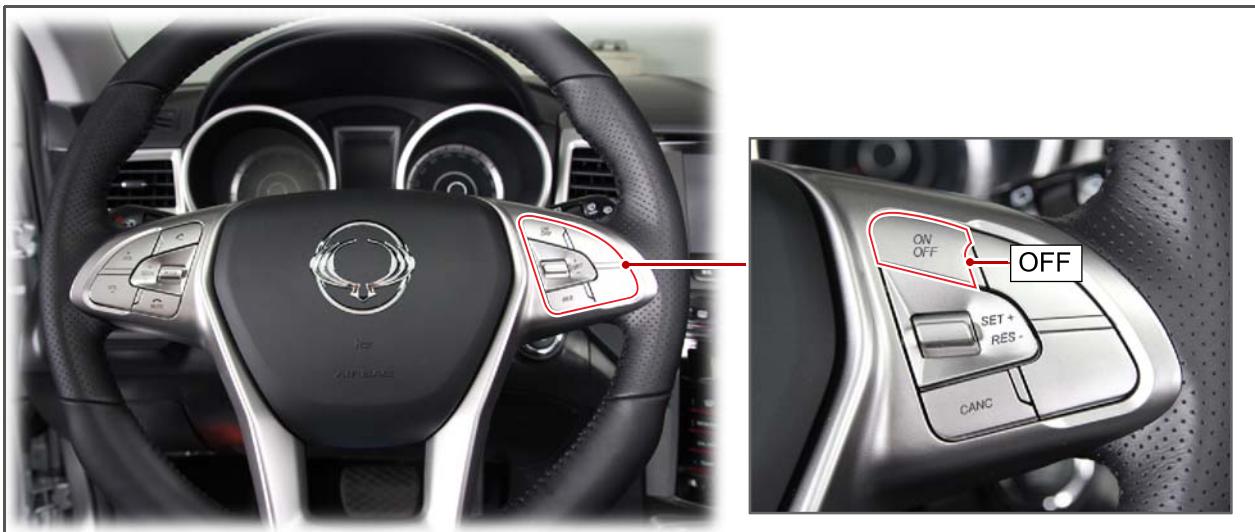
Modification basis	
Application basis	
Affected VIN	

5) To Cancel (CANCEL)



To cancel the cruise control operation, press the CANC (CANCEL) switch. If this is the case, the engine ECU will remember the speed before cancellation. Pressing RES (RESUME) switch restores the cruise control function to the previous speed.

6) How To Deactivate (Cruise Control OFF)



Pressing the OFF switch while the cruise control system is activated will deactivate the function. In this case, the engine ECU will not remember the speed before deactivation. You need to set the speed again when the cruise control system is activated later.

Modification basis	
Application basis	
Affected VIN	