

CRUISE CONTROL SYSTEM

8510-23

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اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



CRUISE CONTROL SYSTEM

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OVERVIEW AND OPERATION PROCESS

1. CRUISE CONTROL SWITCH



The cruise control is an automatic speed control system that maintains a desired driving speed without using the accelerator pedal.

The vehicle speed must be greater than 36 km/h to engage the cruise control. This feature is especially useful for motorway driving.

CAUTION

The cruise control system is a supplementary system, which helps the driver to drive the vehicle at a desired speed without using the accelerator pedal under the traffic condition where the vehicle-to-vehicle distance meets the legal requirement.

Modification basis	
Application basis	
Affected VIN	

1) Traffic Conditions for Using Cruise Control

Use the cruise control system only when the traffic is not jammed, driving on motorways or highways where there is no sudden change in the driving condition due to traffic lights, pedestrian, etc.

WARNING

Improper use of the cruise control could be dangerous.

- Do not use on winding roads.
- Do not use in heavy traffic.
- Do not use on slippery, wet roads.

This could result in a loss of control, collision, and/or personal injuries.



NOTE

The described speed value may vary slightly depending on the road conditions.

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2. HOW TO OPERATE CRUISE CONTROL SWITCH

1) Setting a Desired Speed



1. To operate the cruise control, accelerate to the desired speed, which must be more than 36 km/h (23 MPH) and less than 150 km/h (90 MPH).
2. When the desired speed is reached, push up the ACCEL switch of the cruise control lever or push down the DECEL switch for 1 second per one switching and then release the accelerator pedal slowly.
3. Now, the vehicle is cruised by this system with the set speed.
4. And you can set to other vehicle speeds again with above steps after an accelerator pedal intervention during the cruise control running.



CAUTION

Never use the cruise control system until you get used to it.
Improper use or not fully aware of this function could result in collision and/or personal injuries.

(1) Manual transmission equipped vehicle

The cruise control is only available when the 3rd or higher speed gear is engaged.

Modification basis	
Application basis	
Affected VIN	

2) Accelerating with the Cruise Control System



(1) While the cruise control system is running

1. Push up the ACCEL switch of the cruise control lever and hold it until the desired speed is reached without an accelerator pedal intervention.
2. When the desired speed is reached, release the lever.

(2) While the cruise control system is not running

1. Accelerate using the accelerator pedal over 36 km/h.
2. Push up the ACCEL switch of the cruise control lever and hold it.
3. And then release the accelerator pedal slowly.
4. When the desired speed is reached, release the lever.

(3) Tap-up while the cruise control system is running

1. Push up the ACCEL switch of the cruise control lever less than 0.5 second per one switching while the cruise control system is running. This is a tap-up switching.
2. When you operate a tap-up switching, the vehicle is accelerated by 1.3 km/h over the previous set speed.
3. If you want to accelerate to 13 km/h, operate the tap-up switching ten times without accelerating with the cruise control system.

3) Decelerating with the Cruise Control System



(1) While the cruise control system is running

1. Push down the DECEL switch of the cruise control lever and hold it until the desired speed is reached without a brake pedal intervention. But the cruise control system cannot maintain the cruise function at less than 34 km/h.
2. When the desired speed is reached, release the lever.

(2) When the cruise control system is not running

1. Push down the DECEL switch of the cruise control lever and hold it.
2. And then release the accelerator pedal slowly.
3. When the desired speed is reached, release the lever. But the cruise control system cannot maintain the cruise function at less than 34 km/h.

(3) Tap-down while the cruise control system is running

1. Push down the DECEL switch of the cruise control lever less than 0.5 second per one switching while the cruise control system is running. This is a tap-down switching.
2. When you operate a tap-down switching, the vehicle is decelerated by 1.0 km/h below the previous set speed.
3. If you want to decelerate to 10 km/h, operate the tap-down switching ten times without the brake pedal intervention.

Modification basis	
Application basis	
Affected VIN	

4) Recovery of Set Speed (RESUME)

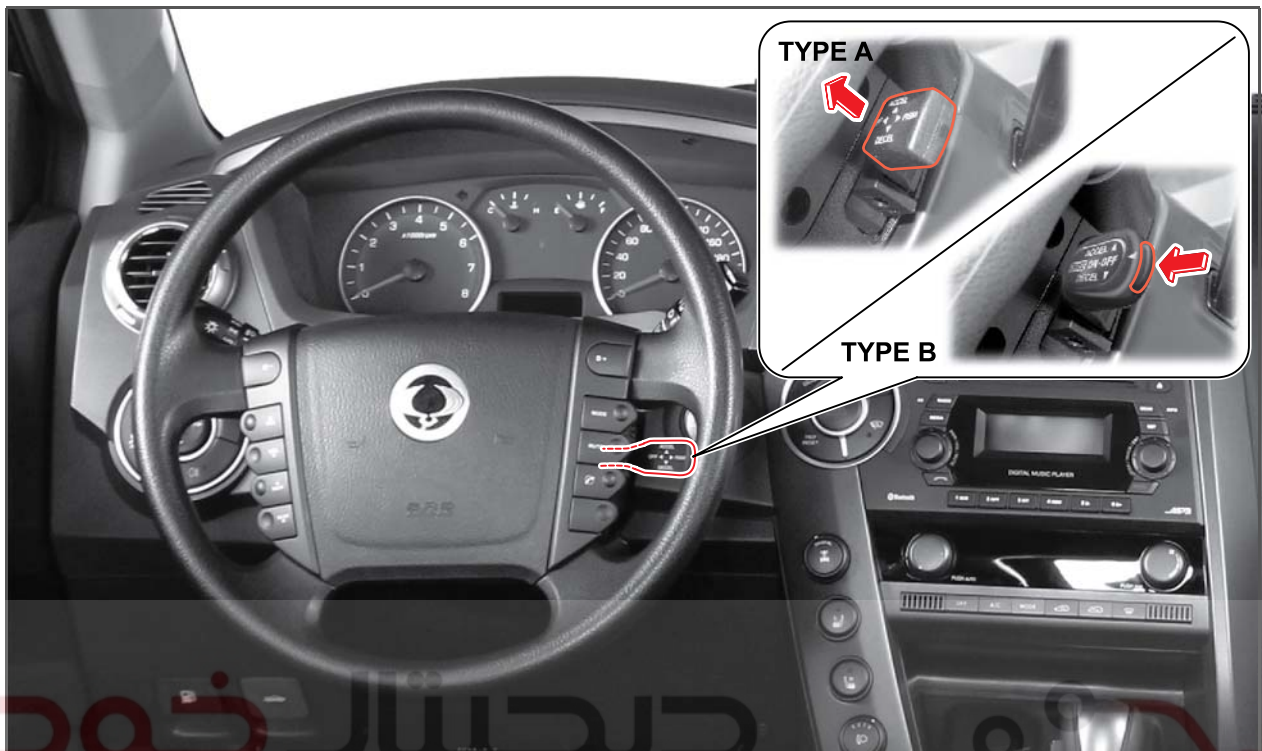


Even if the cruise control is cancelled, the previous set cruise speed can be recovered by pushing (Type A) or pulling (Type B) toward the cruise control lever when the current vehicle speed is over 36 km/h without an acceleration intervention. But if you turn off the ignition switch, the memorized set speed is cleared and you cannot recover the previous set speed.

CAUTION

The resume position should only be used if the driver is fully aware of this speed and wishes to resume this particular speed.

5) Normal Cancellation of the Cruise Control



The cruise control system will be canceled when one or more items of the following conditions are applied;

1. When the brake pedal is depressed.
2. When the cruising speed is downed less than 38 km/h.
3. When the OFF switch is operated by pulling the cruise control lever (Type A) or by pushing the ON-OFF switch of the cruise control lever (Type B).
4. When ESP is activated.
5. When applying the parking brake when driving.
6. When using the clutch in order to shift (M/T only).

And the cruise control system can be operated again in driving state.

CAUTION

Keep the main cruise control switch in the neutral position when not using the cruise control.

Modification basis	
Application basis	
Affected VIN	

(1) Abnormal Cancellation of the Cruise Control

1. When the rapid deceleration is applied without braking.
2. When the rapid acceleration is applied without acceleration pedal intervention.
3. When the cruise control lever is failed.
4. When the brake switch and the brake light switch input signal are implausible.

And the cruise control system cannot be operated again in driving state. In this case, you should stop the vehicle, and turn off the ignition switch and then turn it on again. After you do that, you can use the cruise control system again. But if the cruise control system isn't recovered, you should contact a Ssangyong Dealer for diagnosis of the cruise control system.

CAUTION

- Abnormal changes of the gear selector lever can damage the engine. Do not move the gear shift lever to Neutral while driving at the set speed. Automatic transmission damage may result.
The speed that has been set may not be maintained on uphill or downhill slopes.
- The speed may drop to less than the set speed on a steep uphill grade. The accelerator must be used if you want to maintain that speed.
The speed may increase to more than the set speed on a steep downhill grade. When the speed increases too much, turn off the cruise control.

(2) Using the Cruise Control on Hills

How well the cruise control works on hills depends on the speed, load, and the steepness of the hill. When going up steep hills, you may have to depress the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to keep your speed down. Applying the brake takes you out of the cruise control.

REMOVAL AND INSTALLATION

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CRUISE CONTROL SWITCH

Preceding work

Leave the vehicle in a stationary condition and disconnect the negative battery cable.



1. Remove the mounting bolt cover of the steering wheel air bag inflator and unscrew the two mounting bolts (T40) on each side.



2. Pull out the front air bag carefully and disconnect the primary and secondary inflator connectors.

CAUTION

Be careful not to apply any impact to the air inflator.

Modification basis	
Application basis	
Affected VIN	

CRUISE CONTROL SYSTEM

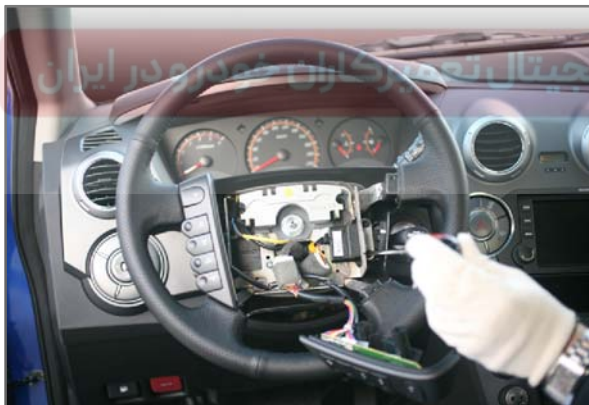
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3. Remove the screws securing the audio switch on the right side of the steering wheel.



4. Remove the audio switch (RH) from the steering wheel.



5. Remove the two mounting screws of the switch.



6. Disconnect the cruise control switch connector.



7. Remove the mounting cover of the cruise control switch.



8. Pull out the cruise control switch from the steering wheel in the direction shown in the illustration.

9. Install the cruise control switch in reverse order of removal. During installation, make sure to engage the connector securely.

ENGINE
ASSEMBLENGINE
FUELENGINE
INTAKEENGINE
EXHAUSTENGINE
LUBRICATENGINE
COOLINGENGINE
ELECTRICRUISE
CONTROENGINE
CONTRO

Modification basis	
Application basis	
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Memo

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