Dual Clutch Transmission Control System / Shift Lever

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Components and components location

Components



Tightening torque : N·m (kgf·m, lb·ft)

1. Shift lever knob & boots
2. Shift lever assembly
3. Shift cable assembly

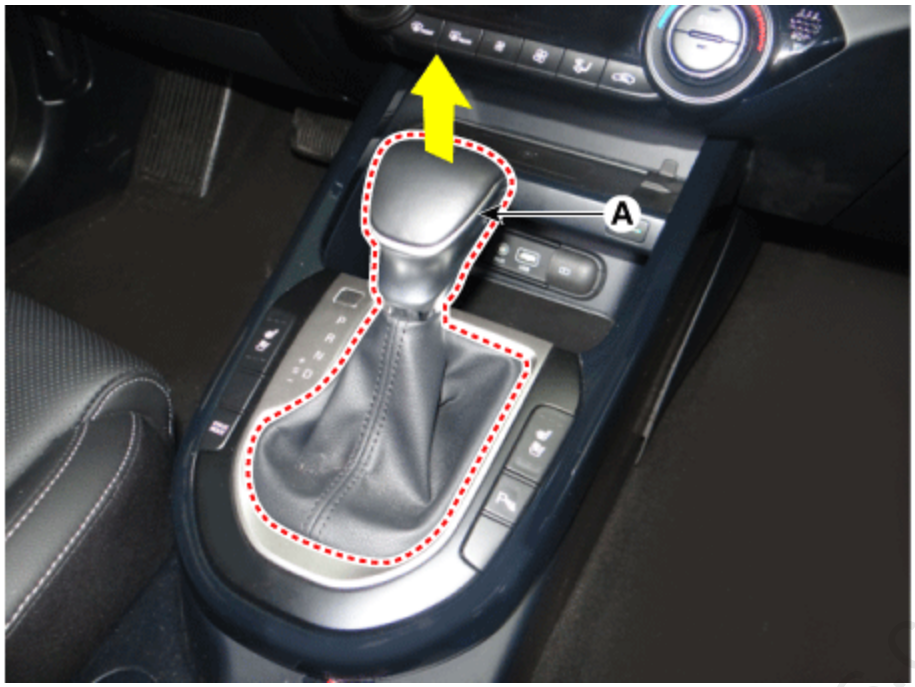
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Repair procedures

Removal

1. Shift the gear to "N".

2. Remove the knob (A) by pulling it in the direction of arrow after removing the boots from the console upper cover.



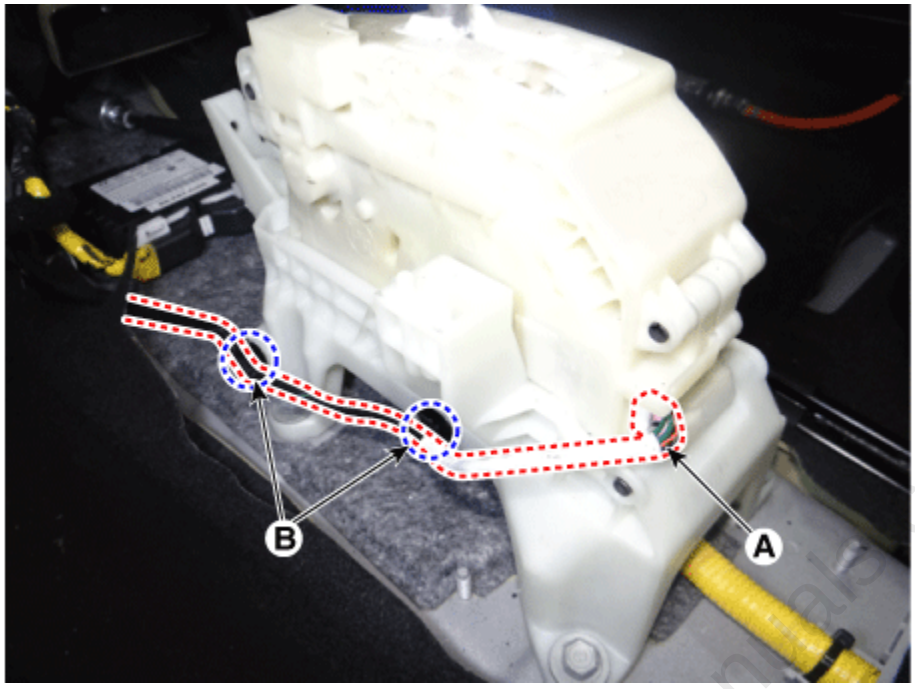
3. Remove the floor console assembly.

   (Refer to Body - "Floor Console Assembly")

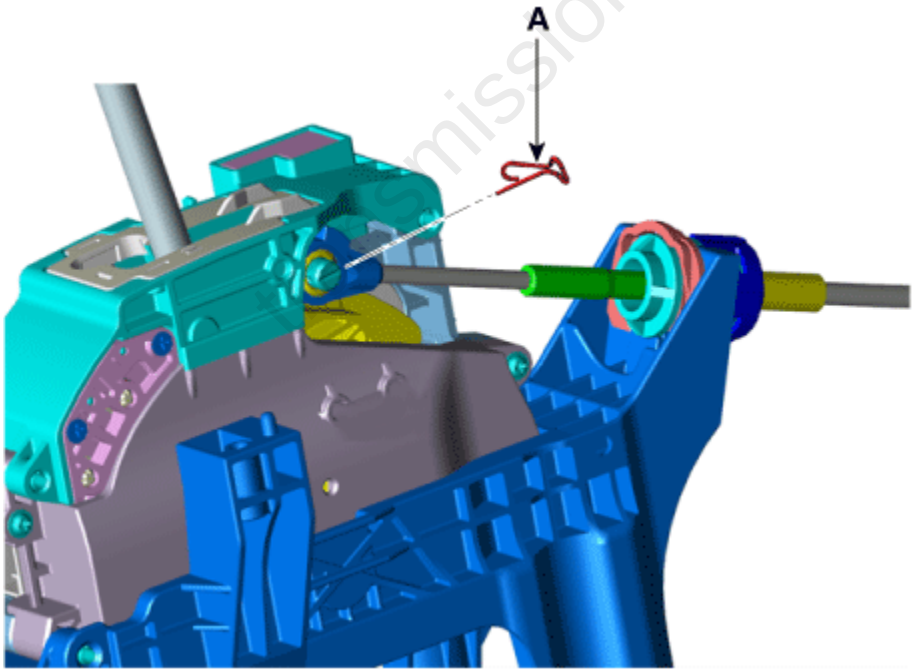
4. Remove the rear air duct after loosening the mounting nut.



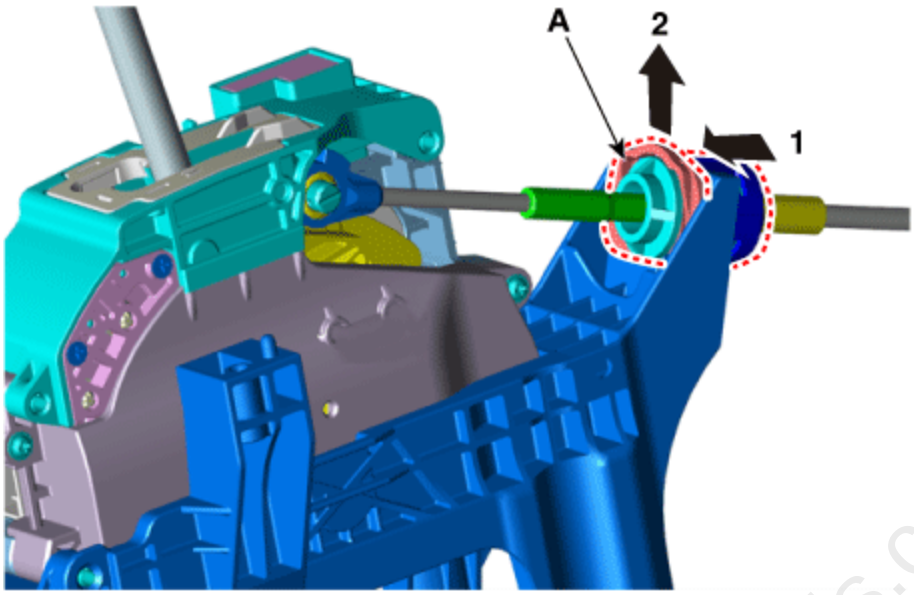
5. Disconnect the main connector (A) and then remove the wiring mounting clips (B) from the shift lever.



6. Remove the shift cable from the shift lever pin after removing the snap pin (A).



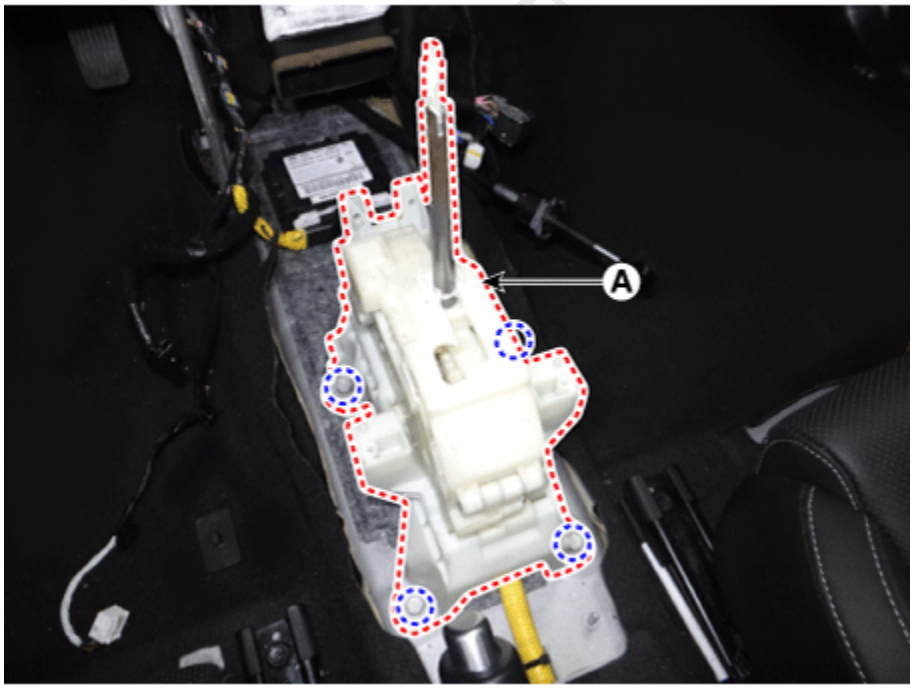
7. Remove the cable socket (A) from the shift lever.



8. Remove the shift lever (A) after loosening the bolts.

   Tightening torque :

   8.8 - 13.7 N·m (0.9 - 1.4 kgf·m, 6.5 - 10.1 lb·ft)



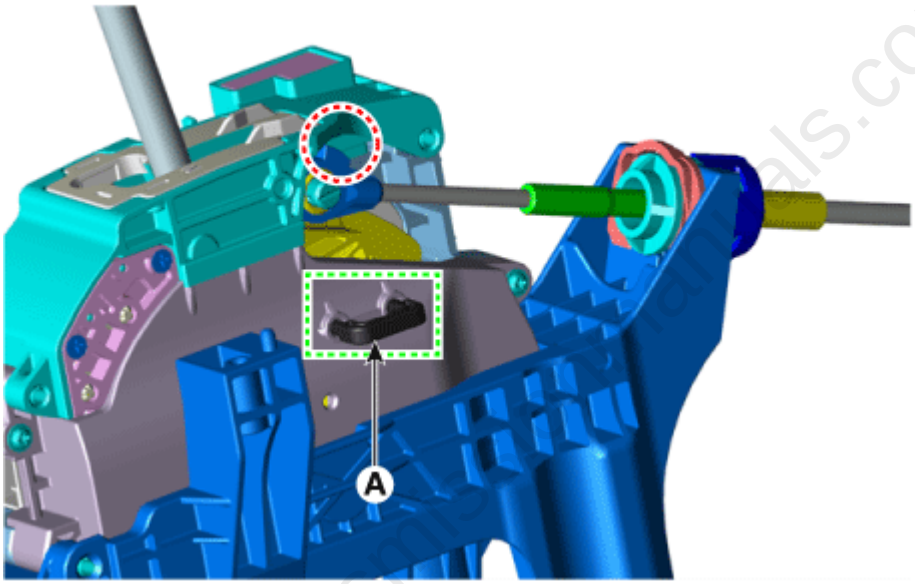
Installation

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1.
Install in the reverse order of removal.

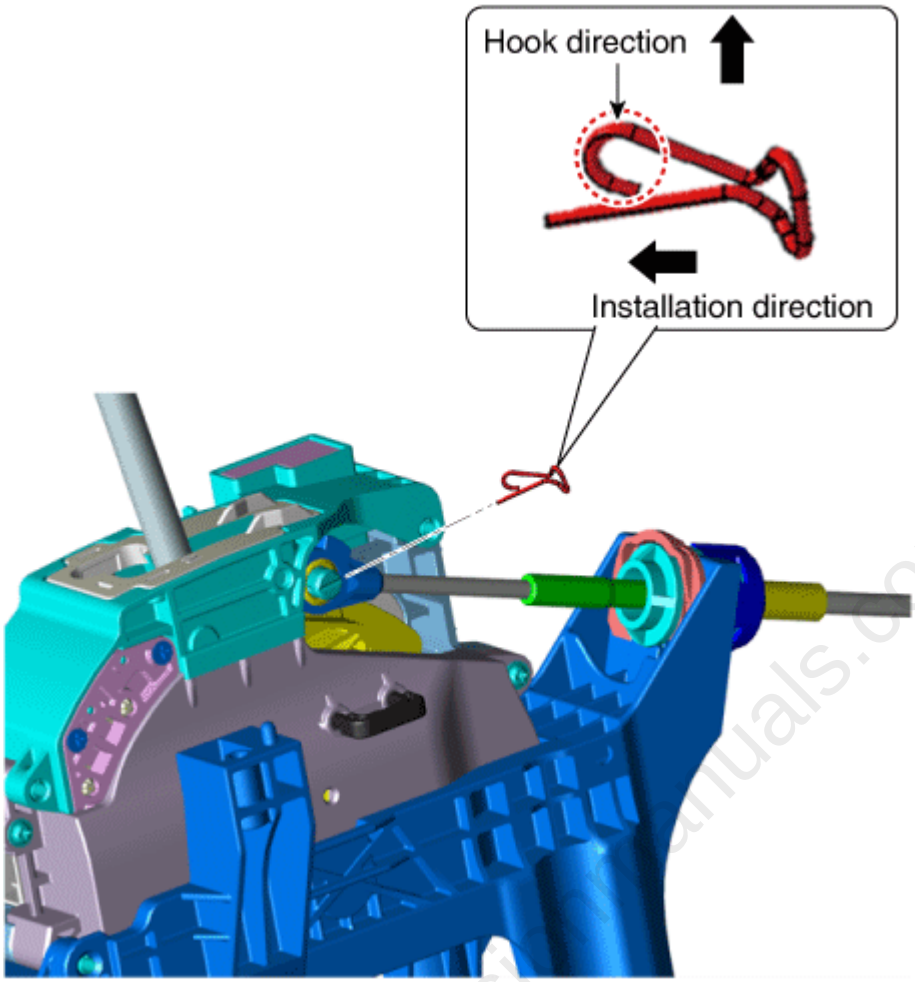
NOTICE

- Before installation, insert "N range fixing pin"(A) of shift lever after checking the shift lever and manual control lever are on "N" range.
- Install the shift cable after checking the direction of projection to prevent incorrect assembly.



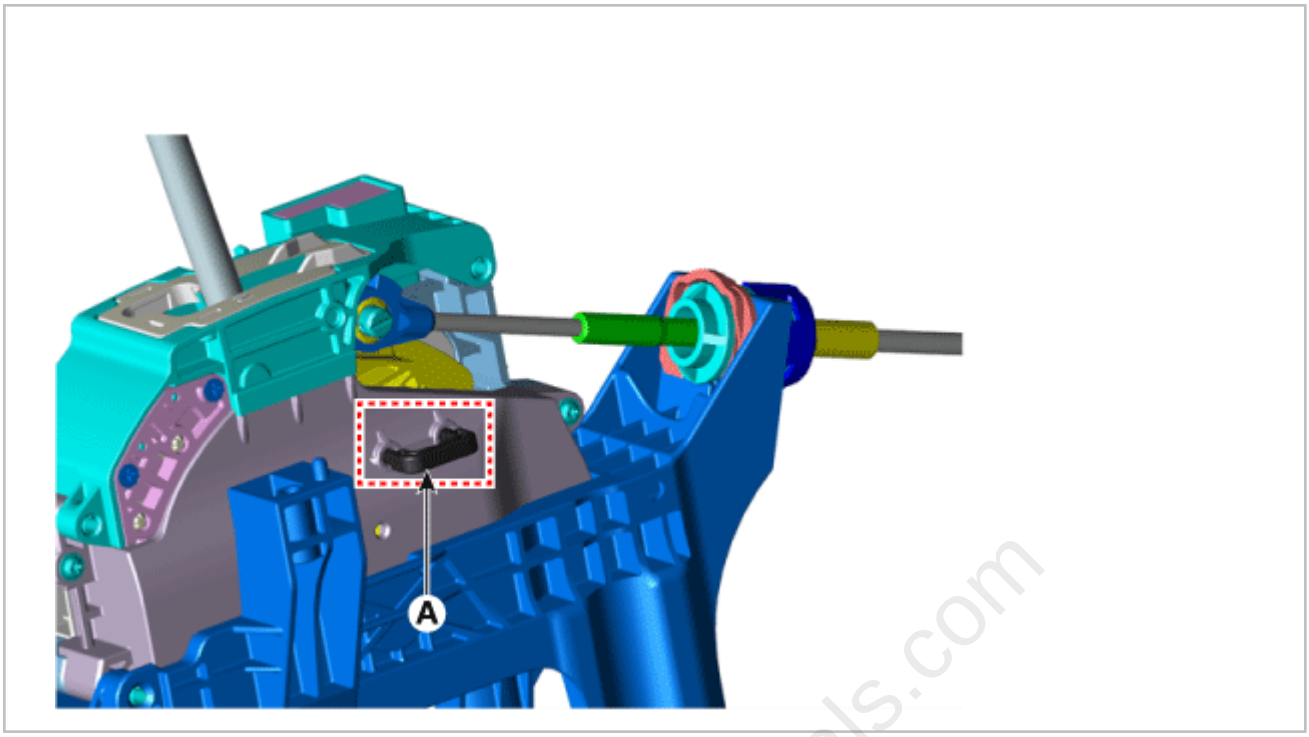
- Mind the installation direction of snap pin and install the snap pin with the hook facing upward.

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- Make sure to get rid of "N range fixing pin"(A) after installing the shift lever assembly.

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Inhibitor Switch

Components and components location Component Location 1. Inhibitor switch 2. Manual control lever Specifications Specification ...

Shift Cable

Components and components location Components 1. Shift lever knob & boots 2. Shift lever assembly 3. Shift cable assembly Repair procedur ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Air Cleaner

Components and components location Components 1. Air cleaner assembly 2. Air intake hose 3. Air duct 4. Air intake shield 5. Air duct extension 6. Breather hose Repair procedures Removal and Installation Air Cleaner Assem ...

Kia Forte 2019-2023 (BD) Service Manual: Rear Door Inside Handle

Repair procedures Replacement 1. Remove the rear door trim. (Refer to Rear Door - "Rear Door Trim") 2. After loosening the mounting screws, remove the rear door inside handle (A). 3. To install, rev ...

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Intelligent Variable Transmission (IVT) / Shift lock system

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For your safety, the Intelligent Variable Transmission (IVT) has a shift lock system which prevents shifting the transmission from P (Park) into R (Reverse) unless the brake pedal is depressed.

To shift the transmission from P (Park) into R (Reverse):

1. Depress and hold the brake pedal.

2. Start the engine or turn the ignition switch to the ON position.

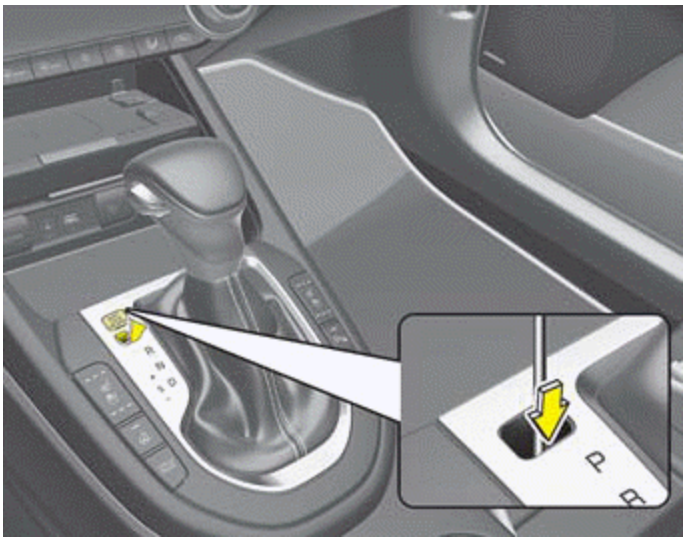
3. Move the shift lever.

If the brake pedal is repeatedly depressed and released with the shift lever in the P (Park) position, a chattering noise near the shift lever may be heard. This is a normal condition.

WARNING

Always fully depress the brake pedal before and while shifting out of the P (Park) position into another position to avoid inadvertent motion of the vehicle, which could injure persons in or around the vehicle.

Shift-lock override



If the shift lever cannot be moved from the P (Park) position into R (Reverse) position with the brake pedal depressed, continue depressing the brake, then do the following:

1. Place the ignition switch in the LOCK/OFF position.

2. Apply the parking brake.

3. Carefully remove the cap covering the shift-lock release access hole.

4. Insert a tool (e.g. flathead screwdriver) into the access hole and press down on the tool.

5. Move the shift lever.

6. Remove the tool from the shiftlock override access hole then install the cap.

7. Have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Ignition key interlock system (if equipped)

The ignition key cannot be removed unless the shift lever is in the P (Park) position.

WARNING

Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and the vehicle to lose control.

Intelligent Variable Transmission (IVT)
Intelligent Variable Transmission (IVT) operation The Intelligent Variable Transmission (IVT) automatically shifts depending on speed and accelerator pedal position. The individual

Good driving practices
Never move the shift lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed. Never move the shift lever into P (Park) when the vehicle is in ...

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speeds a ...

Other information:

Kia Forte 2019-2023 (BD) Owners Manual: Vanity mirror lamp

Push the switch to turn the light on or off. • : The lamp will turn on if this button is pressed. • : The lamp will turn off if this button is pressed. CAUTION - Vanity mirror lamp Always have the switch in the off position when the vanity mirror lamp is not in use. If the su ...

Kia Forte 2019-2023 (BD) Service Manual: RCV Control Solenoid Valve

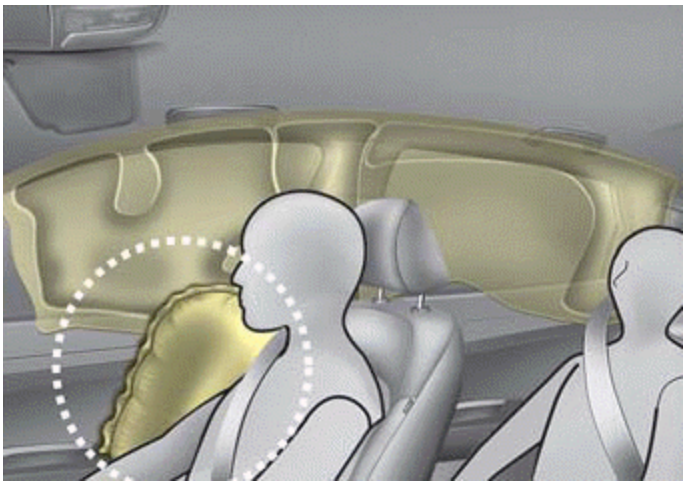
Specifications Specification Item Specification Coil Resistance(Ω) 28.3 - 31.1 [20°C(68°F)] Description and operation Description RCV (Recirculation Valve) Control Solenoid Valve is installed on the c ...

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Air bag - advanced supplemental restraint system / Side air bag

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Your vehicle is equipped with a side air bag in each front seat. The purpose of the air bag is to provide the vehicle's driver and/or the front passenger with additional protection than that offered by the seat belt alone.

- The side air bags are designed to deploy during certain side-impact collisions, depending on the crash severity, angle, speed and point of impact. However, when side deployment threshold is satisfied in a front-impact crash, the side air bags may deploy.
- The side air bags may deploy on the side of the impact or on both sides.
- The side and/or curtain air bags on both sides of the vehicle will deploy if a rollover or possible rollover is detected.
- The side air bags are not designed to deploy in all side impact or rollover situations.

WARNING - Unexpected deployment

Avoid impact to the side impact airbag sensor when the Engine Start/Stop button is ON to prevent unexpected deployment of the side air bag.

- The side air bag is supplemental to the driver's and the passenger's seat belt systems and is not a substitute for them. Therefore your seat belts must be worn at all times while the vehicle is in operation.
- For best protection from the side air bag system and to avoid being injured by the deploying side air bag, both front seat occupants should sit in an upright position with the seat belt properly fastened. The driver's hands should be placed on the steering wheel at the 9:00 and 3:00 positions. The passenger's arms and hands should be placed on their laps.

WARNING - Deployment

Do not install any accessories including seat covers, on the side or near the side air bag as this may affect the deployment of the side air bags.

• If the seat or seat cover is damaged, have the vehicle checked and repaired by an authorized Kia dealer. Inform the dealer that your vehicle is equipped with side air bags and an occupant detection system.

WARNING - Flying objects

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Do not place any objects (an umbrella, bag, etc.) between the front door and the front seat. Such objects may become dangerous projectiles if the side airbag inflates.

WARNING - No attaching objects

- *Do not place any objects over the air bag or between the air bag and yourself. Also, do not attach any objects around the area in which the air bag inflates such as the door, side door glass, front and rear pillar.*
- *Do not put any objects between the side airbag label and seat cushion. It could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.*
- *Never place or insert any object into any small opening near side airbag labels attached to the vehicle seats. When the air bag deploys, the object may affect the deployment and result in an unexpected accident or bodily harm.*
- *Do not install any accessories on the side or near the side air bags.*

Driver's and passenger's front air bag

■ Driver’s front air bag ■ Passenger’s front air bag Your vehicle is equipped with an Advanced Supplemental Restraint (Air Bag) System and lap/shoulder belts at both the driver and ...

Curtain air bag

Curtain air bags are located along both sides of the roof rails above the front and rear doors. They are designed to help protect occupants in certain side impacts and to help prevent the ...

Other information:

Kia Forte 2019-2023 (BD) Owners Manual: Low tire pressure telltale

When the tire pressure monitoring system warning indicators are illuminated, one or more of your tires is significantly under-inflated. If the telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and ...

Kia Forte 2019-2023 (BD) Service Manual: Fuel Filler Cap

Description and operation Description A ratchet tightening device on the threaded fuel filler cap reduces the chances of incorrect installation, which seals the fuel filler. After the gasket on the fuel filler cap and the filler neck flange contact each other, the ratchet produces ...