DCT(Dual Clutch Transmission) System / DCT(Dual Clutch Transmission) System

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- DCT(Dual Clutch Transmission)
- Transmission Gear Oil

Shift Cable

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

DCT(Dual Clutch Transmission)

Components and components location Components 1. DCT (Dual Clutch Transmission) assembly 2. Clutch actuator assembly 3. Gear actuator assembly 4. Roll rod su ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Air Conditioner Refrigerant/ Compressor

Repair procedures Refrigerant System Service Basics (R-134a) Refrigerant Recovery Use only U.L.-listed service equipment that is certified to meet the requirements of SAE J2210 when removing HFC-134a (R-134a) from the air conditioning system. &nb ...

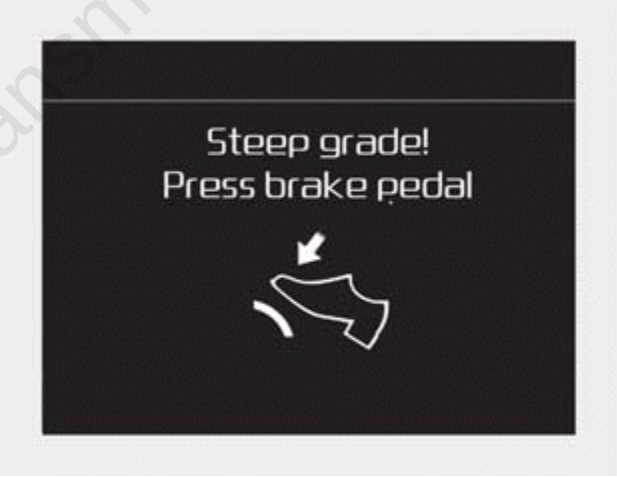
Kia Forte 2019-2023 (BD) Owners Manual: Reverse parking distance warning

The reverse parking distance warning assists the driver during backward movement of the vehicle by chiming if any object is sensed within a distance of 120 cm (47 in.) behind the vehicle. This system is a supplemental system and is not intended to, nor does it, replace the need for th ...

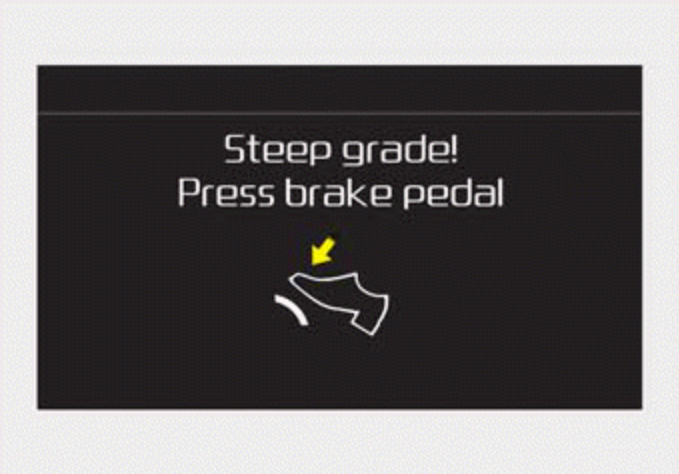
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LCD display for transmission temperature and warning message / DCT warning messages

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◈■ Type A



■ Type B

This warning message is displayed when the vehicle is driven slowly on a grade and the vehicle detects that the brake pedal is not applied.

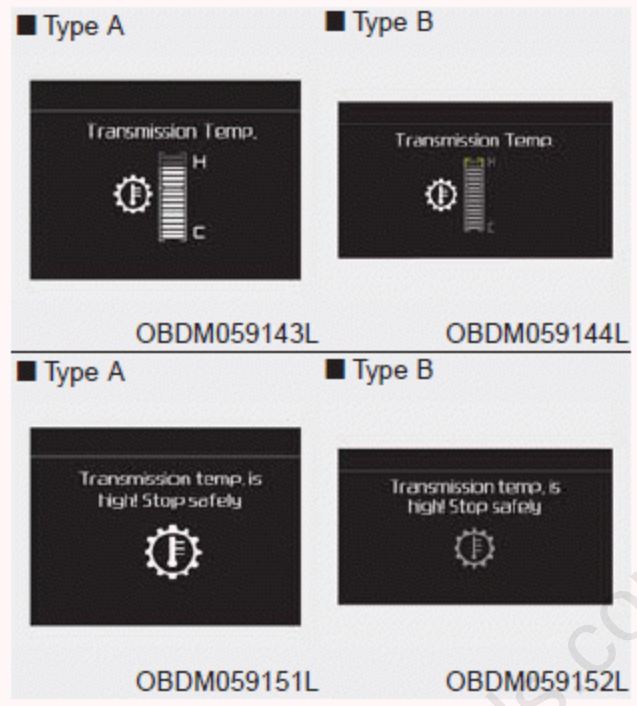
Steep grade

Driving up hills or on steep grades:

- To hold the vehicle on an incline, use the foot brake or the parking brake.
- When in stop-and-go traffic on an incline, keep some distance ahead before moving the vehicle forward. Then hold the vehicle on the incline with the foot brake.
- If the vehicle is held on a hill by applying the accelerator pedal or by creeping with the brake pedal dis-engaged, the clutch and transmission may overheat which can result in damage. In this situation, a warning message will appear on the LCD display.
- If the LCD warning is active, the foot brake must be applied.
- Ignoring the warnings can lead to damage to the transmission.

Transmission high temperature

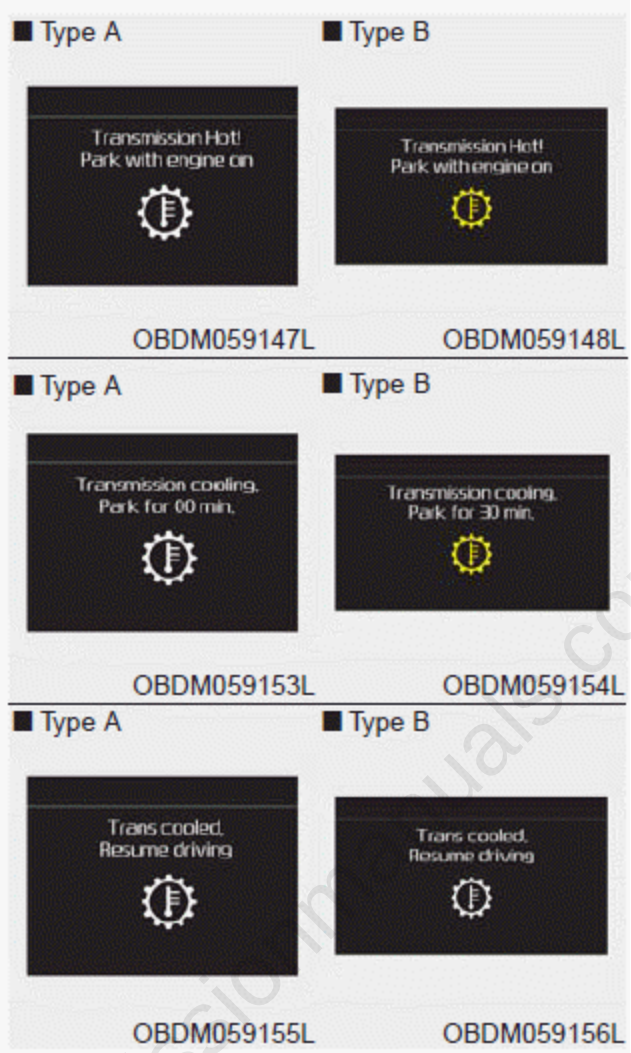
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- Under certain conditions, such as repeated stop-and-go launches on steep grades, sudden take off or acceleration, or other harsh driving conditions, the transmission clutch temperatures will increase excessively. Eventually, the clutch in the transmission could become overheated.
- When the clutch is overheated, the safe protection mode engages and the gear position indicator on the cluster blinks with a chime. In this situation, “Transmission temp. is high! Stop safely” warning message will appear on the LCD display, and driving may not be smooth.
- If this occurs, pull over to a safe location, stop the vehicle with the engine running, apply the brakes, shift the vehicle to P (Park), and allow the transmission to cool.
- If you ignore this warning, the driving condition may become worse. You may experience abrupt shifts, frequent shifts, or jerkiness. To return to normal driving condition, stop the vehicle and apply the foot brake or shift into P (Park). Then allow the transmission to cool for a few minutes with the engine on before driving off.
- When possible, drive the vehicle smoothly.

Transmission overheated

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- If the vehicle continues to be driven and the clutch temperatures reach the maximum temperature limit, the “Transmission Hot! Park with engine on” warning will be displayed. When this occurs, the clutch is disabled until the clutch cools to normal temperatures.
- The warning will display a time to wait for the transmission to cool.
- If this occurs, pull over to a safe location, stop the vehicle with the engine running, apply the brakes, shift the vehicle to P (Park), and allow the transmission to cool.
- When the message “Trans cooled. Resume driving.” appears, you can continue to drive your vehicle.
- When possible, drive the vehicle smoothly.

If any of the warning messages in the LCD display continue to blink, for your safety, we recommend having the system checked by an authorized Kia dealer.

LCD display for transmission temperature and warning message

Transmission temperature Gauge ■ Type A ■ Type B ■ Type A ■ Type B Select trip computer mode on the LCD display and move to the transmission temperature screen to see ...

Transmission ranges

The indicator in the instrument cluster displays the shift lever position when the ignition switch is in the ON position. P (Park) Always come to a complete stop before shifting

into P (Park ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Engine Oil

Repair procedures Replacement • Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermat ...

Kia Forte 2019-2023 (BD) Service Manual: Injector

Specifications Specification Item Specification Coil Resistance (Ω) 1.5 ± 0.075 [20°C(68°F)] Description and operation Description The GDI injector is similar to a standard injector, but sprays fuel ...

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Windshield defrosting and defogging / Defogging logic

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To reduce the possibility of fogging up the inside of the windshield, the air intake or air conditioning is controlled automatically according to certain conditions such as  or  position. To cancel automatic defogging logic or to return to the automatic defogging logic, do the following.

Manual climate control system

1. Turn the ignition switch to the ON position.

2. Press the defroster button ().

3. Within 3 seconds after pressing the defroster button, press the air intake control button at least 5 times within 3 seconds.

If the battery has been discharged or disconnected, it resets to the defog logic status.

Automatic climate control system

1. Turn the ignition switch to the ON position.

2. Press the defroster button ().

3. While pressing the air conditioning button (A/C), press the air intake control button at least 5 times within 3 seconds.

The recirculation indicator blinks 3 times with 0.5 second intervals. It indicates that the defogging logic is canceled or returned to the programmed status.

If the battery has been discharged or disconnected, it resets to the defog logic status.

Auto defogging system

Auto defogging reduces the probability of fogging up the inside of the windshield by automatically sensing the moisture of inside the windshield.

The auto defogging system operates when the heater or air conditioning is on.

This indicator illuminates when the auto defogging system senses moisture on the inside of the windshield and is activated.

The auto defogging system addresses excess moisture on the inside of the windshield in stages. For example, if auto defogging does not defog inside the windshield at step 1 Outside air position, it tries to defog again at step 2 Operating the air conditioning.

Step 1 : Outside air position
Step 2 : Operating the air conditioning
Step 3 : Blowing air flow toward the windshield
Step 4 : Increasing air flow toward the windshield

To cancel or reset the Auto Defogging System

Press the front windshield defroster button for 3 seconds when the ignition switch is in the ON position. When the Auto Defogging System is canceled, the ADS OFF symbol will blink 3 times and ADS OFF will be displayed on the climate control information screen.

When the Auto Defogging System is reset, ADS OFF symbol will blink 6 times without a signal.

CAUTION

Do not remove the sensor cover located on the upper end of the passenger side windshield glass. Damage to the system parts could occur and may not be covered by your vehicle warranty.

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Automatic climate control system

To defog inside windshield 1. Set the fan speed to the desired position. 2. Select desired temperature. 3. Press the defroster button (). 4. The outside (fresh) air position will be selected ...

Storage compartments

These compartments can be used to store small items required by the driver or passengers. To avoid possible theft, do not leave valuables in the storage compartment. Always keep the st ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Front Seat Assembly

Components and components location Component Location 1. Front seat assembly Repair procedures Replacement 1. Open the cover and loosen the front seat mounting bolts. [Front] Tightening torque : ...

Kia Forte 2019-2023 (BD) Owners Manual: Vehicle to vehicle distance setting

To set vehicle to vehicle distance: This function allows you to program the vehicle to maintain a relative distance to the vehicle ahead without depressing the accelerator pedal or brake pedal. The vehicle to vehicle distance will automatically activate when the smart cruise control ...

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Features of your vehicle / Defroster

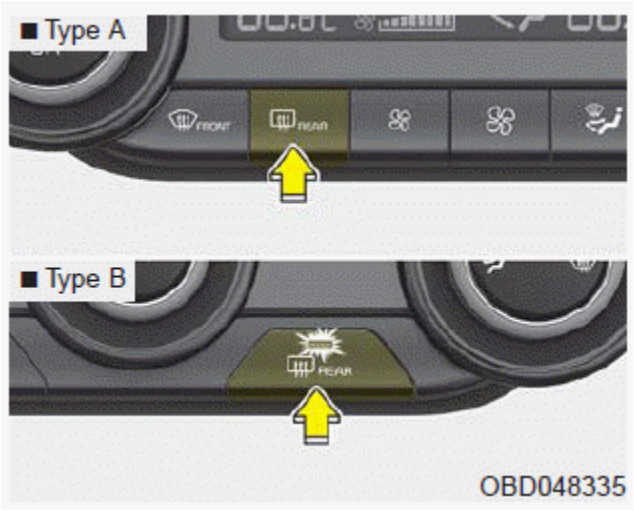
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CAUTION - Conductors

To prevent damage to the conductors bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the window.

If you want to defrost and defog the front windshield, refer to “Windshield defrosting and defogging” in this section.

Rear window defroster



The defroster heats the window to remove frost, fog and thin ice from the rear window, while the engine is running.

To activate the rear window defroster, press the rear window defroster button located in the center facia switch panel. The indicator on the rear window defroster button illuminates when the defroster is ON.

If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.

The rear window defroster automatically turns off after approximately 20 minutes or when the ignition switch is turned off. To turn off the defroster, press the rear window defroster button again.

Outside rearview mirror defroster

If your vehicle is equipped with the outside rearview mirror defrosters, they will operate at the same time you turn on the rear window defroster.

Welcome system

Headlight (Headlamp) escort function The headlights (and/or taillights) remain on for approximately 5 minutes after the ignition key is removed or turned to the ACC or LOCK position. Howeve ...

Manual climate control system

■ Type A ■ Type B 1. Fan speed control knob 2. Temperature control knob 3. Air conditioning button (if equipped) 4. Rear window defroster button 5. Air intake control button 6. Mod ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Floor Carpet

Repair procedures Replacement Put on gloves to prevent hand injuries. • When removing with a flat - tip screwdr ...

Kia Forte 2019-2023 (BD) Service Manual: Sunroof Sunshade

Repair procedures Replacement 1. Remove the sunroof assembly. (Refer to Sunroof - "Sunroof Assembly") 2. After loosening the mounting screws, remove the drip rail assembly (A). 3. After loosening the mo ...

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