Driveshaft and axle / Driveshaft Assembly

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- Front Driveshaft
- TJ Joint
- Dynamic Damper
- BJ Boot
- Rear Hub - Carrier

Front Hub / Knuckle

Components and components location Components 1. Front brake disc 2. Front hub bearing 3. Dust cover 4. Knuckle Repair procedures Remova ...

Front Driveshaft

Components and components location Components Location [Gamma 1.6 MPI, Nu 2.0 MPI, New U 1.6 TCI] 1. Drive shaft (LH) 2. Drive shaft (RH) ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Brake Booster

Components and components location Components 1. Reservoir cap 2. Reservoir 3. Booster 4. Master cylinder 5. Booster pressure sensor Repair procedures Brake Booster Operating Test For simple checking of the brake booster opera ...

Kia Forte 2019-2023 (BD) Service Manual: Rear Coil Spring

Repair procedures Removal and Installation 1. Remove the rear wheel and tire (A). Tightening torque : 107.9 - 127.5 N·m (11.0 - 13.0 kgf·m, 79.6 - 94.0 lb·ft) ...

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Special driving conditions / Driving in flooded areas & off-road, Highway driving

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Driving in flooded areas

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be affected.

After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

Driving off-road

Drive carefully off-road because your vehicle may be damaged by rocks or roots of trees. Become familiar with the off-road conditions where you are going to drive before you begin driving.

Highway driving

Tires

Adjust the tire inflation pressures to specification. Low tire inflation pressures will result in overheating and possible failure of the tires.

Avoid using worn or damaged tires which may result in reduced traction or tire failure.

Never exceed the maximum tire inflation pressure shown on the tires.

WARNING - Under/over inflated tires

Always check the tires for proper inflation before driving. Underinflated or overinflated tires can cause poor handling, loss of vehicle control, and sudden tire failure leading to accidents, injuries, and even death. For proper tire pressures, refer to the "Tires and wheels" section in Chapter 8.

WARNING - Tire tread

Always check the tire tread before driving your vehicle. Worn-out tires can result in loss of vehicle control.Worn-out tires should be replaced as soon as possible. For further information and tread limits, refer to the "Tires and wheels" section in Chapter 7.

Fuel, engine coolant and engine oil

High speed travel consumes more fuel than urban motoring. Do not forget to check both the engine coolant and engine oil.

Drive belt

A loose or damaged drive belt may result in overheating of the engine.

Driving in the rain

Rain and wet roads can make driving dangerous, especially if you're not prepared for the slick pavement. Here are a few things to consider when driving in the rain: A heavy rainfall wi ...

Winter driving

Severe weather conditions in the winter result in greater wear and other problems. To minimize the problems of winter driving, you should follow these suggestions: Snowy or icy conditions To ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Auto Defoging Actuator

Description and operation Description The auto defogging sensor is installed on front window glass. The sensor judges and sends signal if moisture occurs to blow out wind for defogging. The air conditioner control module receives a signal from the sensor and restrains moisture and ...

Kia Forte 2019-2023 (BD) Service Manual: Emergency Call (E-Call) Switch

Schematic diagrams Circuit Diagram Repair procedures Replacement 1. If the E-Call switch needs to be replaced, replace the overhead console lamp assembly. (Refer to Lighting System - "Overhead Console Lamp") ...

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Special driving conditions / Driving in the rain

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Rain and wet roads can make driving dangerous, especially if you’re not prepared for the slick pavement. Here are a few things to consider when driving in the rain:

- A heavy rainfall will make it harder to see and will increase the distance needed to stop your vehicle, so slow down.
- Keep your windshield wiping equipment in good shape. Replace your windshield wiper blades

when they show signs of streaking or missing areas on the windshield.

- If your tires are not in good condition, making a quick stop on wet pavement can cause a skid and possibly lead to an accident. Be sure your tires are in good shape.
- Turn on your headlights to make it easier for others to see you.
- Driving too fast through large puddles can affect your brakes. If you must go through puddles, try to drive through them slowly.
- If you believe you may have gotten your brakes wet, apply them lightly while driving until normal braking operation returns.

Smooth cornering, Driving at night

Smooth cornering Avoid braking or gear changing in corners, especially when roads are wet. Ideally, corners should always be taken under gentle acceleration. If you follow these suggestions ...

Driving in flooded areas & off-road, Highway driving

Driving in flooded areas Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stoppi ...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Rear Seat Cushion Cover

Components and components location Component Location 1. Rear seat cushion cover Repair procedures Replacement Put on gloves to prevent hand injuries. ...

Kia Forte 2019-2023 (BD) Owners Manual: Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also has a negative influence on the air conditioning system. Therefore, if abnormal operation is found, have the system inspected by an authorized Kia dealer. WARNING - Vehicles eq ...

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Driving your vehicle

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Be sure the exhaust system does not leak.

The exhaust system should be checked whenever the vehicle is raised to change the oil or for any other purpose. If you hear a change in the sound of the exhaust or if you drive over something that strikes the under side of the vehicle, have the exhaust system checked as soon as possible by an authorized Kia dealer.

WARNING - Engine exhaust

Do not inhale exhaust fumes or leave your engine running in a enclosed area for a prolonged time. Exhaust fumes contain carbon monoxide, a colorless, odorless gas that can cause unconsciousness and death by asphyxiation.

WARNING - Open trunk

Do not drive with the trunk open. Poisonous exhaust gases can enter the passenger compartment. If you must drive with the trunk open proceed as follows:

1. Close all windows

2. Open side vents.

3. Set the air intake control at "Fresh", the air flow control at "Floor" or "Face" and the fan at the highest speed.

- Before driving
- Key positions
    1. Ignition switch position
    2. Starting the engine
- Engine start/stop button
    1. Engine start/stop button position
    2. Starting the engine
- Manual transmission
    1. Using the clutch, Downshifting
    2. Good driving practices
- Dual Clutch Transmission (DCT)
    1. LCD display for transmission temperature and warning message
- Intelligent Variable Transmission (IVT)
    1. Shift lock system
    2. Good driving practices
- Brake system
    1. Parking brake
    2. Anti-lock brake system (ABS)
    3. Electronic stability control (ESC)
    4. Vehicle stability management (VSM)
    5. Hill-start assist control (HAC)
- Forward Collision-avoidance Assist (FCA)
    1. System setting and activation
    2. FCA warning message and system control
    3. Brake operation
    4. FCA front view camera sensor
    5. System malfunction
    6. Limitation of the system
- Forward Collision-avoidance Assist (FCA) (Camera + Radar type)
    1. System setting and activation
    2. FCA warning message and system control
    3. Brake operation
    4. Sensor to detect the distance from the vehicle in front (front radar/camera)
    5. System malfunction
    6. Limitation of the system
    7. Recognizing pedestrians
- Cruise Control System
    1. To set cruise control speed
    2. To increase cruise control set speed
    3. To decrease the cruising speed
    4. To cancel cruise control, do one of the following
    5. To resume cruising speed at more than approximately 30 km/h (20 mph)
    6. To turn cruise control off, do one of the following
- Smart Cruise Control
    1. Smart cruise control switch
    2. Smart Cruise Control speed
    3. Vehicle to vehicle distance setting
    4. To adjust the sensitivity of smart cruise control
    5. To convert to cruise control mode

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6. Limitations of the system

- Drive mode integrated control system
- Blind-spot Collision Warning (BCW)
    1. BCW (Blind-Spot Collision Warning) / LCA (Lane Change Assist)
    2. RCCW (Rear Cross-Traffic Collision Warning)
    3. Driver's Attention
- Lane Keeping Assist (LKA) system
    1. LKA operation
    2. LKA malfunction
    3. LKA function change
- Driver Attention Warning (DAW)
    1. System setting and activation
    2. Resetting the system, System disabled
    3. System malfunction
- Economical operation
- Special driving conditions
    1. Rocking the vehicle
    2. Smooth cornering, Driving at night
    3. Driving in the rain
    4. Driving in flooded areas & off-road, Highway driving
- Winter driving
- Vehicle load limit
    1. Certification label
- Vehicle weight

How vehicle audio works

AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then received by the radio ...

Before driving

Before entering vehicle Be sure that all windows, outside mirror(s), and outside lights are clean. Check the condition of the tires. Check under the vehicle for any sign of leaks. B ...

Other information:

Kia Forte 2019-2023 (BD) Owners Manual: SRS Care

The SRS is virtually maintenancefree and so there are no parts you can safely service by yourself. If the SRS air bag warning light does not illuminate, or continuously remains on, have your vehicle immediately inspected by an authorized Kia dealer. Any work on the SRS system, such as ...

Kia Forte 2019-2023 (BD) Service Manual: Valve Clearance

Repair procedures Inspection [Gamma 1.6 MPI/T-GDI] Check the valve clearance. If necessary, adjust the valve clearance by replacing the tappets. – For valve clearance inspection inspection and adjustment. [Gamma 1.6 MPI] (Refer to Engine Mechanical System - & ...

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