

VI. Workshop manual of shifting control system

1. Installation instruction of shifting control system

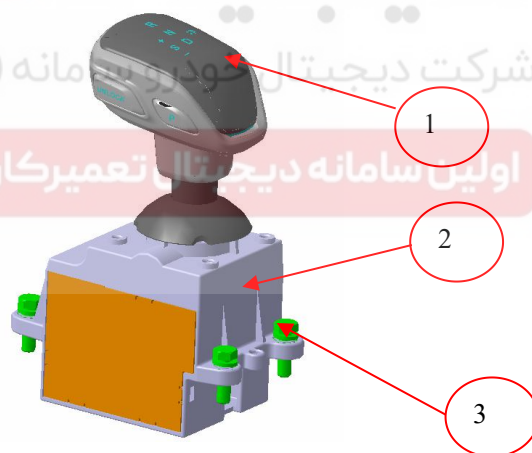
Cautions

- The replacement and maintenance of the shift control mechanism assembly and the select & shift handle assembly require to go to the authorized dealer (4S shop) of Anhui Jianghuai Automobile Group Co., Ltd.
- Only after professionals confirm that the shift control mechanism assembly and the select & shift handle assembly need to be replaced, they can be replaced or repaired;
- The shifting control mechanism assembly and the select & shift handle assembly are to be disassembled from the auxiliary dashboard;
- For questions and maintenance support, please call Anhui Jianghuai Automobile Group Co., Ltd. or a designated local distributor (4S shop).

Preparation

System Instruction

Setting diagram of transmission shift control device



List of transmission shift control device

No.	Part No.	Name	Amount
1	1703110U00A5	Select & shift handle assembly	1
2	1703200U00A5	Transmission control mechanism assembly	1
3	Q146B0620F61	Hex bolt & spring and flat washer set assembly	4

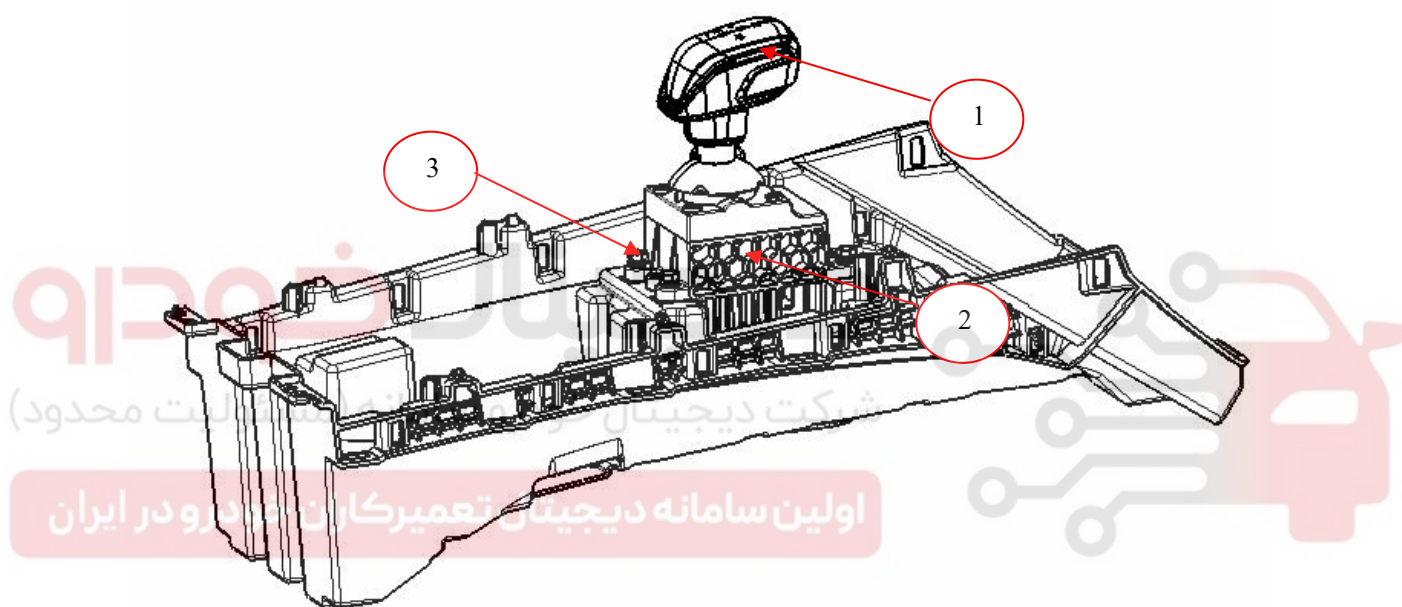
Schematic diagram overview:

The shift control mechanism assembly sends the driver's shifting request through the vehicle CAN to the electronic shift controller by pushing the shift rod. The controller controls the actuator to

Chassis System Maintenance Manual

drive transmission get in and out P gear position according to the current vehicle driving state, at the same time, sends the target signal to the transmission TCU, and the transmission switches to the corresponding gear position according to the signal. There is light under the display cover of the shift handle. When shifting into the specified gear position, the current gear indicator will be highlighted. When turning on the background light at night, the background light gear position indicator will be displayed on low light. There is an unlock button on the shift handle. When you hang some specified gears, you need to press the unlock button to hang in to prevent accidental hanging. Press the P button on the gear shift handle if you want to get into P gear position.

Disassembling and assembling



Installation diagram of shifting control mechanism assembly

- 1-Select & shift handle assembly 2-Shift control mechanism assembly 3-Hex bolt & spring and flat washer set assembly (4)

Installation sequence (Reverse the order when removing)

Verify the following before assembling:

1. There is no quality defects like rust, notable bumping and scratch, and deformation on the select & shift handle assembly. Press the unlock button of the handle and the P button, and there is no jamming, shaking or abnormal sound.

2. When operating the shift gear lever, there shall be no stuck and looseness phenomenon, no scratch, crack and other defects in the protective sleeve, and no broken phenomenon in the connector of the operation mechanism.

Please assemble by following procedures below:

1. Install the shifting control mechanism assembly

Chassis System Maintenance Manual

Use 4 hex bolts (Q146B0620F61) to fix the shift control mechanism mounting bracket in the auxiliary dashboard frame mounting groove, the tightening torque is 8Nm~12Nm.

2. Install the select & shift handle assembly

After installing the auxiliary dashboard, install the gear select&shift handle assembly. During installation, press the gear shift handle down hard until you hear the sound of "click" from the clamping ring inside the handle, to ensure that the handle is properly assembled.

Note: During the removal of the gear select&shift handle assembly, use special tool to pull out. Do not pull out the gear shift handle vigorously, which may cause damage to the handle.

2. Gear shift controller maintenance instruction

Check and Maintenance

After installing gear shift operating mechanism, turn on the power, check if the gear shifting is normal, and whether the panel display is normal. Check the transmission oil level. If everything is normal, start the vehicle to confirm whether it is abnormal.

Malfunction Diagnosis

Common Malfunction Diagnosis Table

Faults	Possible causes	Solutions
The P gear cannot be removed	Check the following conditions: 1. If the gear shift handle is installed in place; 2. If the transmission or gear shift handle has fault; 3. Whether the shifting control mechanism connector is in place; 4. If the transmission actuating mechanism motor works normally.	1. The handle is installed in place; 2. Solve the problem of fault code; 3. The shifting mechanism connector is assembled in place; 4. Replace the transmission actuating mechanism.
No drive or drive very slow after the gear is engaged	1. Whether the TCU or ECU reports fault. 2. The transmission lubricant is insufficient;	1. Solve the problem of fault code; 2. Add enough lubricant as required.