



## 09 - Safety protection device

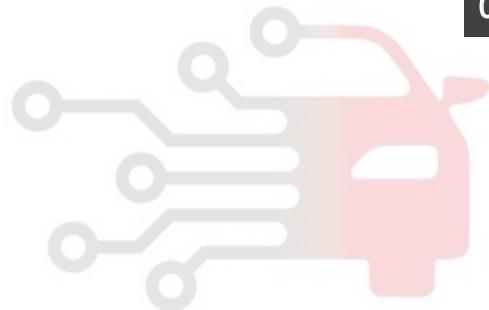
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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

09



# دیجیتال خودرو

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Airbag system



## Airbag system

### Technical specifications

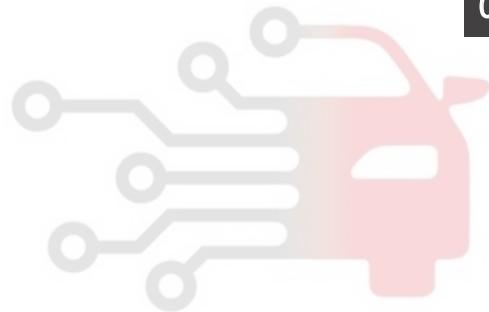
#### Torque Specifications

Name	Torque range	
	Metric (Nm)	British(lb-ft)
Airbag ECU and floor connection bolts	9	7

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## Precautions

### ⚠ Warning:

- Failure to follow the correct procedure may result in a sudden deployment of the airbag and even a serious accident. Meanwhile, any incorrect action on airbag system can cause malfunction of the system.
- It is important to make sure that the ignition switch is turned OFF and the battery is disconnected from the positive and negative poles for 90 seconds.(The safety system is equipped with a backup power supply, so if it is operated within 90s of the positive and negative poles of the battery is disconnected, may lead to the airbag to deploy suddenly).
- Do not expose the airbag assembly to hot air or open flames.

### ⓘ Note:

- Because it is difficult to confirm the failure of the airbag system, the diagnostic trouble code (DTC) will be the most important source of information for troubleshooting. Examine DTC before disconnect the battery in troubleshooting of the airbag system.
- Even if the impact is very small, and the airbag assembly is not deployed, the speaker button assembly and the airbag electronic control unit (SRS ECU) should be checked.
- If an airbag electronic control unit (SRS ECU) may be impacted during maintenance, be sure to disconnect the connector of airbag electronic control unit (SRS ECU) first.
- Do not use airbag system parts removed from another vehicle. Always replace with new parts.
- Do not disassemble the speaker button assembly.
- If the horn button assembly falls on the ground or cracks, pits, or other defects on the housing, be sure to replace with new parts.
- For failure check of system circuit, digital multimeter with high impedance should be used.
- The information label is affixed to the parts of the airbag system, and the precautions on the label must be followed.
- When the negative connector of battery is disconnected, the memory of the electronic clock and audio system will be cleared. Record all necessary data before repair. Reset electronic clock and audio system after repair. Standby power supply other than the vehicle must not be used

to keep data memory. The standby power supply will power airbag system, so that the airbag may deploy suddenly in repair.

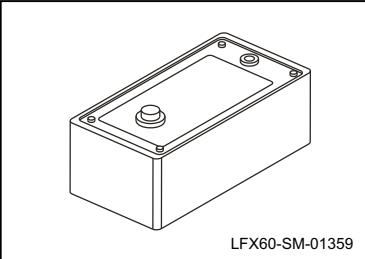
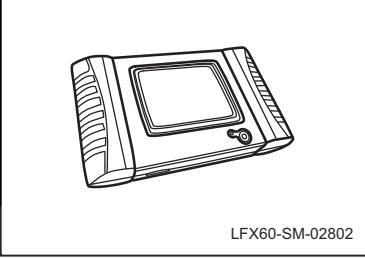
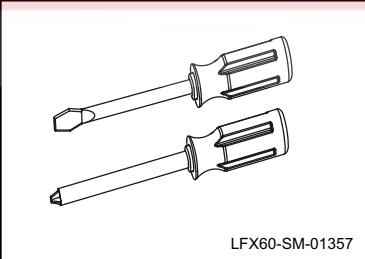
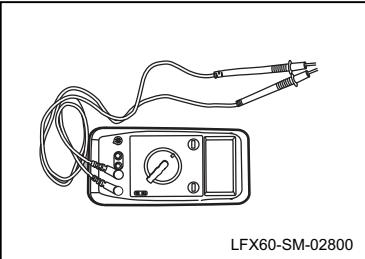
- Do not disassemble or repair the driver's and front passenger's airbag module and airbag electronic control unit (SRS ECU) assembly for recycle or other reasons.
- The airbag ECU, airbag module, clock spring, etc. should be removed when the painting operation is likely to cause an impact due to overheating (above 93 °C).
- The connector of Airbag electronic control unit (SRS ECU) assembly, the connector between the airbag electronic control unit (SRSECU) assembly and clock spring, the connector between the clock spring and the driver airbag module and the connector between the front passenger airbag module and the airbag electronic control unit (SRS ECU) are equipped with a protective mechanism to prevent accidental deployment of the airbag. All requirements must be followed in repair of airbag system to avoid injury for sudden deployment and other parts.
- During the maintenance of the airbag system, the airbag module must be loaded immediately after removal from the transport equipment. If the work is terminated, the airbag module should be returned to the conveyor and the airbag module can not be placed in an unattended place. When storing the removed airbag module, place the deployment face of airbag up.
- Do not place the airbag assembly in a high temperature environment or open flame.
- After the airbag system is repaired, do not rush to connect the airbag module to the circuit. The electrical inspection should be carried out before the airbag module can be accessed.
- When the airbag system is connected to the power supply, no person is allowed in the vehicle.
- After the airbag system is repaired, check that if the SRS warning light is working properly.
- The airbag has a certain service life. If airbag life is reached, airbag and label must be replaced.

Airbag system



## Preparation

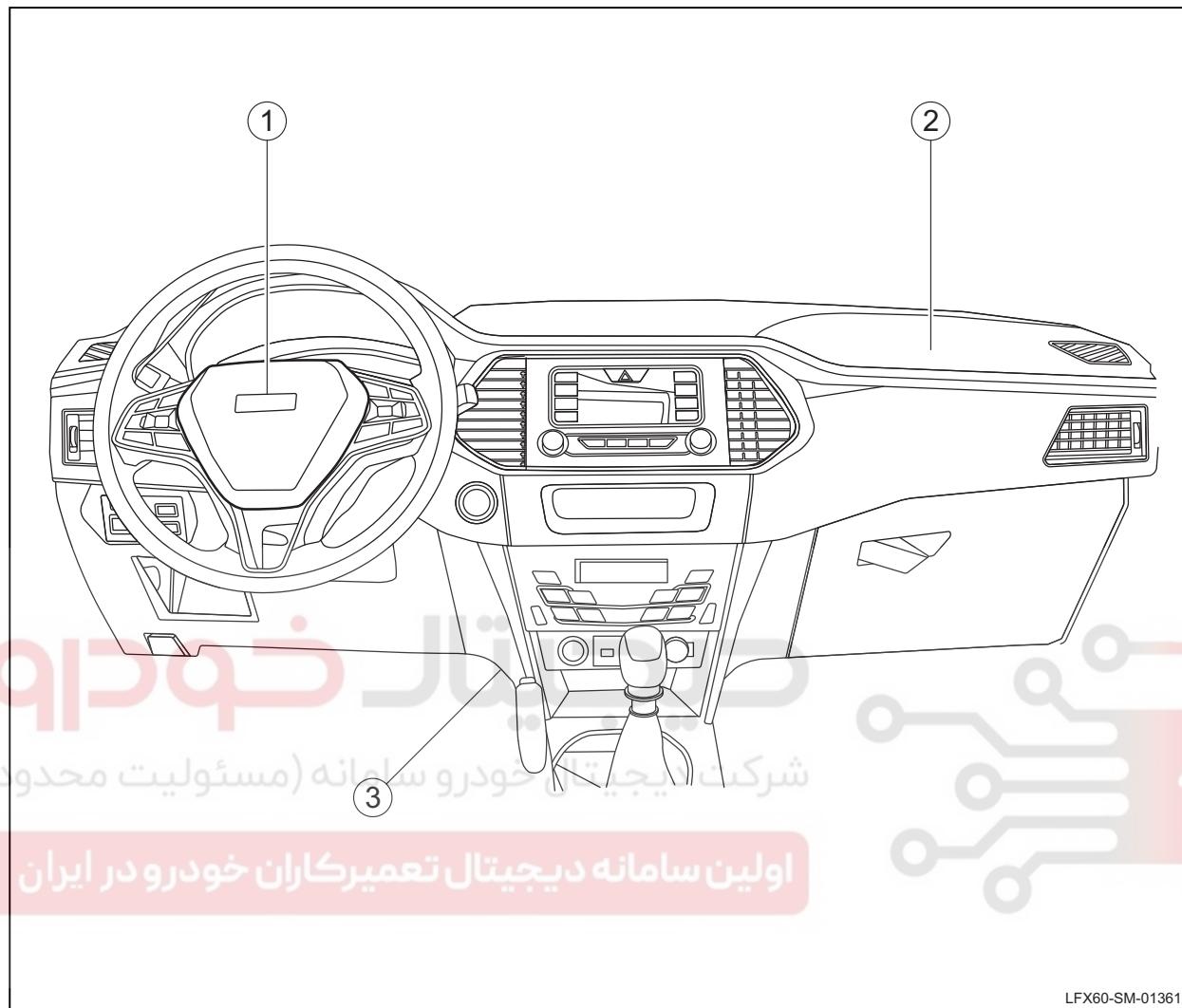
### General maintenance tools

No.	Tool name	Tool figure	Tool code	Remarks
1	Special tool for airbag firing	 LFX60-SM-01359	-	Firing the airbag
2	Diagnosis equipment	 LFX60-SM-02802	-	Fault diagnose of airbag system
3	Wiring group	 LFX60-SM-02801	-	Testing circuit
4	Screwdriver	 LFX60-SM-01357	-	To remove and install the screw and pry the snap ring etc.
5	Digital universal meter	 LFX60-SM-02800	-	Measure the voltage and resistance



## Structure and installation location

### Component Location Plan



No.	Part Name
1	Driver Airbag
2	Passenger safety

No.	Part Name
3	Airbag control unit

## Operating Principle

### System Overview

#### ⚠ Warning:

The vehicle is equipped with the airbag systems; any failure to follow the correct operating procedures will lead to the following cases:

- The airbag unexpectedly deploys.
- The airbag system does not work if required.

#### ⚠ Warning:

Strictly observe the following rules to prevent the above conditions:

- Before working, confirm whether you are working on the airbag system component, around the airbag or on the line.
- Remove the airbag system if you are carrying out maintenance operations on the airbag system components, around them, or on their lines.

The airbag system (SRS AIRBAG) is a safety protection device used in conjunction with seat belts. The airbag cannot substitute the belt. The driver and occupants must always be fastened with the seat belt and adjust to the most appropriate condition according to the body.

#### ⓘ Note:

Strictly observe the following rules to prevent the above conditions:

The airbag system can not replace the seat belt function. Failure to wear a seat belt may cause serious personal injury when the airbag is detonated. The airbag system is designed to protect the driver and passengers when the vehicle is severely impacted. When there is any frontal vehicle collision to meet the airbag detonation conditions, the airbag ECU will send a signal to trigger the gas charging system of driver and copilot airbag. The gas charging system will produce a chemical reaction in an instant so as to fill gas into airbag and buffer the forward impact speed of front-row driver and passengers, and prevent drivers and front-row passengers from hitting the steering wheel and the upper/lower instrument panel directly. At the same time, airbag ECU also sends signals to the seat belt pre-tightening device so as to tighten the seat belt backwards.

The airbag system consists of the following components:

- Combination instrument assembly
- Airbag control module
- Driver's airbag
- Passenger airbag

### Airbag indicator

The airbag indicator is located in the dashboard assembly to inform the driver of the airbag system failure and to verify that the airbag control unit is communicating with the dashboard. When operate start switch to switch the power mode to "ON" state, make sure that the airbag indicator is on. If the indicator light remains on, it is not extinguished or flashes, you must check the failure of the entire airbag system.

#### ⚠ Warning:

If the airbag system is faulty, it may cause the airbag unable to deploy, or deploy the airbag when the collision does not reach the set severity.

### Airbag control unit

#### ⚠ Warning:

- The airbag control unit has a redundant power supply, and the airbag can still be deployed after the battery voltage is lost during the collision.
- Disconnect the negative connector of battery for more than 90s before servicing the airbag system to ensure safety.
- In order to prevent accidental deployment of the airbag and cause personal injury, the undeveloped airbag module shall not be disposed as conventional workshop waste. Safely discard the unexpanded airbag module by using the expansion program. If the sealed container is damaged during the scrapping process, some of the substances contained in the unexpanded module may cause serious illness or personal injury.

The airbag control unit, which is a microprocessor, is the control center of the airbag system. When the vehicle is impacted, the airbag control unit compares the detected collision signal with the value in the memory. When the generated signal value exceeds the stored value, the airbag control unit issues an ignition command to each of the ignition circuits to deploy the airbag. When the airbag is deployed, the airbag control unit records the status of the airbag system and lights on the airbag indicator on the instrument cluster. After the vehicle is started, the airbag control unit will perform continuous diagnostic monitoring of the electrical components and circuits of the airbag system. If the airbag control unit detects a fault, a fault diagnosis code is stored and the airbag indicator light is illuminated to inform the driver the failure.



## Driver airbag, passenger airbag

### ⚠️ Warning:

When transporting an unexpanded airbag module:

- Do not carry wires or plugs on the airbag module.
- Make sure the airbag opening is not facing you or someone else.

The driver airbag module includes a housing, an inflatable airbag, an ignition detonator, and a gas generating agent. When the vehicle is impacted in the front and the impact force is large enough, the airbag control unit will issue an ignition command to the ignition circuit to deploy the airbag. And then, the gas will rapidly expand the airbag. Once it is filled with gas, the airbag will discharge gas via the vent holes. All the harness connector terminal of airbag control unit (driver airbag, passenger airbag deployment circuit) has a short-circuit bar. When the plug is disconnected, the short-circuit bar will short the airbag inflatable module deploy circuit, to prevent the airbag from accidentally deploy during maintenance.

## Clock Spring

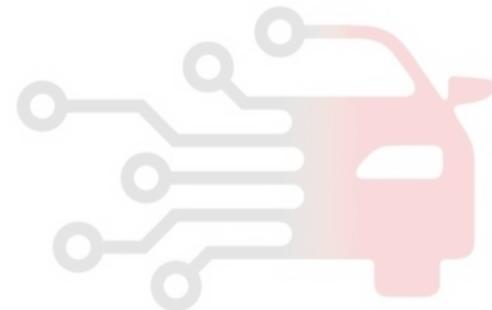
### ⚠️ Warning:

Improper installation of the clock spring assembly can damage the internal spring coil of the clock spring, which may cause a coil failure, resulting in an airbag not working properly, thus resulting in personal injury.

The airbag clock spring is on the steering column and below the steering wheel. The clock spring can maintain a continuous electrical contact between the driver's airbag deployment circuit and the driver's airbag when the steering wheel is rotated.

## Airbag harness system

The airbag system harness connects the airbag control unit, the inflatable module, the expansion circuit, and the data circuit through a waterproof plug. The harness of airbag system deploy circuit shall be yellow for identification. When repairing the harness of airbag system, follow the appropriate tests and circuit repair procedures in this manual.



## Diagnostic Information and Procedures

### Diagnosis Instructions

Before the diagnoses of the airbag system, read the system overview first. Understand and become familiar with the working principle of the airbag system, and then start the airbag system diagnosis, so that in the event of failure to help determine the correct fault diagnosis steps, more importantly, it also helps determine whether the situation described by the customer is normal operating.

Any troubleshooting of the airbag system should take the airbag system check as a starting point and instruct the service personnel to take the next logical step to troubleshoot. Comprehend and correctly use the diagnostic flow chart to shorten the diagnosis time and avoid the misjudgement.

### Visual Inspection

#### ● Note:

- When storing unexpanded airbag modules, make sure that the airbag opening is not facing the surface of the loaded airbag module. "Airbag openings shall not point downward. Do not place any objects on the airbag module. There should be enough space around the airbag for the airbag to unfold unexpectedly. Otherwise, people will be injured."
- Do not immerse undeveloped airbag modules in water or expose them to other liquids.
- Do not deploy unexpanded airbag modules near fire or in high temperature areas to prevent the airbag from being accidentally unfolded and people from being injured.

1. Confirm the problem raised by the customer.
2. Visually check whether there is any obvious mechanical or electrical damage sign.

### Visual inspection table

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Mechanical	Electric apparatus
<ul style="list-style-type: none"> <li>• Steering wheel</li> <li>• Driver's seat</li> <li>• Dashboard assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Fuse</li> <li>• Line</li> <li>• Driver's airbag</li> <li>• Passenger airbag</li> <li>• Clock spring</li> <li>• Airbag control module</li> <li>• Instrument cluster</li> </ul>

3. Check the airbag system lines that are easy to observe or can be seen.

Wiring harness and fulcrum of the vibration should be the main parts thoroughly checked. If failure is caused by vibration, it is advisable to gently vibrate the potentially defective parts with your fingers and check for malfunctions.

- Gently shake the plug in the vertical and horizontal directions.
- Gently shake the harness in the vertical and horizontal directions.

4. If the observed or raised problem is the evident and the cause has been found, ensure to fix this fault before proceeding with the next step.
5. If no problem is found through the visual check, confirm the fault and refer to the fault symptom list.



## List of fault symptoms

Symptom	Possible Cause	Recommended Measures
Intermittent fault	<ul style="list-style-type: none"> <li>Clear DTC</li> <li>Carry out the simulation test</li> <li>Check and shake the harness, harness plug</li> </ul>	<b>Refer to: Intermittent fault diagnostic flow</b>
The airbag indicator does not light up	<ul style="list-style-type: none"> <li>Fuse</li> <li>Line fault</li> <li>Instrument cluster</li> <li>Airbag control module</li> </ul>	<b>Refer to: The diagnostic process for the airbag indicator does not light up</b>
The airbag indicator always light up	<ul style="list-style-type: none"> <li>Fuse, circuit</li> <li>There is a collision occurrence record</li> <li>Performed non-canonical operations</li> <li>The number of times recorded in the airbag control unit exceeds the specified number of collisions</li> <li>Instrument cluster</li> <li>Airbag control module</li> <li>Airbag</li> <li>Battery</li> </ul>	<b>Refer to: The diagnostic process for the airbag indicator always light up</b>



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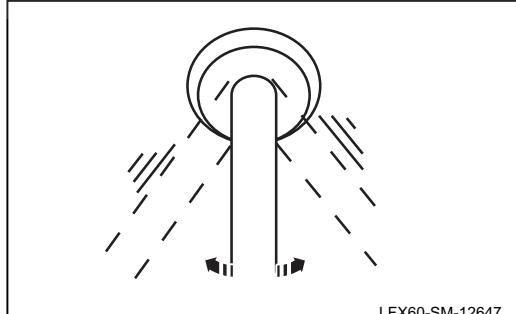
### Troubleshooting process for intermittent failure

**①Note:**

- Clear DTC.
- Carry out the simulation test.
- Check and shake the harness and harness plug.

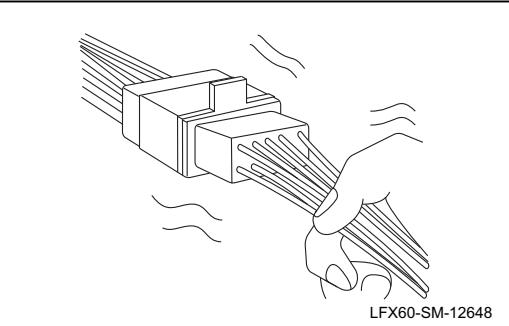
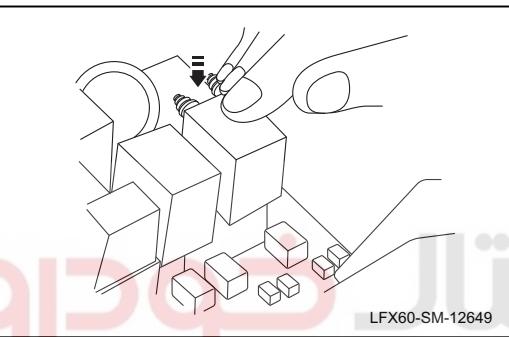
If DTC examination cannot confirm the fault and the fault occurs occasionally during the use, In this case, confirm all the circuits and parts that may cause the fault. In many cases, the basic inspection shown in the flow chart below can quickly and effectively locate the fault parts, in particular the loose contact of harness plug.

Definition: the fault does not occur currently but the historical fault diagnosis records show that the fault ever occurred. Or the customer reports this fault while the fault does not relate to the DTC and the fault symptom cannot be reproduced currently.

Test condition	Details/results/measures
1. Vibration method	<p>A. If the fault occurs or the fault is more severe or the engine vibration occurs when the vehicle is running on the rough road, go to Step 2.</p> <p><b>①Note:</b> <b>Several causes can result in the vehicle or engine vibration fault. Check the following items:</b></p> <p>B. The plug is not fully in place.</p> <p>C. The harness does not have enough clearance.</p> <p>D. The wiring harness is arranged across the bracket or moving part.</p> <p>E. The wiring harness is placed too close to the high temperature parts.</p> <p>F. Incorrect wiring, improperly tightened or loosened wiring will cause the wiring to be squeezed between the parts.</p> <p>G. The connection of the plug, the vibrating part, and the position through which the harness passes are important areas that need to be inspected, for example:the harness passes through the firewall and the body panel.</p>
2. Inspection method for switch plug or harness	 <p>LFX60-SM-12647</p> <p>A. Connect the diagnostic meter to the diagnostic interface (DLC).</p> <p>B. Operate the start switch to make the power mode to the ON State (shut down the engine).</p> <p>C. Access the data flow of the switch you are checking.</p> <p>D. Turn on the switch manually.</p> <p>E. While monitoring the data stream, gently shake each plug or harness horizontally and horizontally."</p> <p>F. If the data stream value is instable, check whether the contact is loose.</p>

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Test condition	Details/results/measures
<p>3. Method of checking the sensor plug or harness.</p> 	<p>A. Connect the diagnostic meter to the diagnostic interface (DLC).      B. Operate the start switch to turn the power to ON state (shut down the engine).      C. Access the data flow of the switch you are checking.      D. While monitoring the data stream, gently shake each plug or harness horizontally and horizontally.      E. If the data flow is not stable, check whether the connection is bad.</p>
<p>4. Method of checking the actuator or relay.</p> 	<p>A. Connect the diagnostic meter to the diagnostic interface (DLC).      B. Operate the start switch to turn the power to ON state (shut down the engine).  <b>Note:</b>  <b>If the engine is started, perform the following steps during its operation in idling mode.</b>      C. Prepare the output status control function for the actuator or relay being checking.      D. After the output status control function is activated, use a finger to vibrate the actuator or relay 3s.      If you hear an unstable “click” sound, check for any improper connection or improper installation of the actuator and/or relay.  <b>Note:</b>  <b>Strongly vibrating relay may cause the relay to be disconnected.</b></p>
<p>5. Simulate the fault by the road test and read the data stream.</p>	<p>A. Connect the diagnostic meter to the diagnostic interface (DLC).      B. Simulate the fault by the road test and read the data stream.      C. If the data stream value is instable or the malfunction occurs, repair or replace the parts.</p>

Airbag system



### The diagnostic process for the airbag indicator does not light up

#### ⚠ Warning:

Before repairing the airbag system, disconnect the battery negative terminal more than 90s to ensure safety.

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the clock spring, instrument cluster harness plug and airbag module harness plug for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the abnormal part.</p>
2. Check the trouble code.	<p>A. Connect the diagnostic equipment. B. Operate the start switch to set the power mode to the "on" state. C. Access the instrument system and SRS system to check the system for DTC. Is there a trouble code? →No To Step 3. →Yes Carry out the relevant fault diagnosis according to the DTC.</p>
3. Check the fuse.	<p>A. Check the fuse FS23, FS24, FS30. <b>Fuses rated capacity are: 5A, 10 A, 25 A.</b> Is the fuse normal? →Yes To Step 4. →No Check the fuse circuit, replace with fuses of different rated capacity</p>



Test condition	Details/results/measures
4. Check the instrument cluster power line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the instrument cluster harness plug I29.</p> <p>C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.</p> <p>D. Measure the voltage between the instrument cluster harness plug I29 terminal 23, 24, 28 and the fixed ground point with the multimeter.</p> <p><b>Standard voltage: 11 ~ 14 V</b></p> <p>Is the voltage normal?</p> <p>→Yes To Step 5.</p> <p>→No Repair the instrument cluster power line fault and replace the harness if necessary.</p>
5. Check the instrument cluster ground line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the instrument cluster harness plug I29.</p> <p>C. Measure the resistance between the instrument cluster harness plug I29 terminal 25 and the fixed ground point with the multimeter.</p> <p><b>Standard resistance: less than 5 Ω</b></p> <p>Is the resistance normal?</p> <p>→Yes To Step 6.</p> <p>→No Repair the instrument cluster ground line open circuit fault and replace the harness if necessary.</p>
6. Check the communication system between the instrument cluster and SRS.	<p>A. Check the communication system between the instrument cluster and SRS.</p> <p>Is the communication system normal?</p> <p>→Yes To Step 7.</p> <p>→No Repair the communication system fault between the instrument cluster and SRS and replace the harness if necessary.</p>

Airbag system



Test condition	Details/results/measures
7. Replace the instrument cluster.	<p>A. Replace the instrument cluster.  <b>Refer to: Replacement of instrument cluster</b>          Is the system normal?          →<b>Yes</b>          Fault solved.          →<b>No</b>          To Step 8.</p>
8. Replace the airbag control unit.	<p>A. Replace the airbag control unit.  <b>Refer to: Replacement of airbag control module</b>          Verify that the system is operated normally.</p>

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### The diagnostic process for the airbag indicator always light up

#### ⚠ Warning:

Before repairing the airbag system, disconnect the battery negative terminal more than 90s to ensure safety.

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the clock spring, instrument cluster harness plug and airbag module harness plug for breakage, loose contact, aging or looseness. Is it OK after checking? → <b>Yes</b> To Step 2. → <b>No</b> Repair the abnormal part.</p>
2. Check the trouble code.	<p>A. Connect the diagnostic equipment. B. Operate the start switch to set the power mode to the "on" state. C. Enter the airbag system and check the system for the presence of the fault code. Is there a trouble code? → <b>No</b> To Step 3. → <b>Yes</b> Carry out the relevant fault diagnosis according to the DTC.</p>
3. Check the communication system between the instrument cluster and the airbag.	<p>A. Check the communication system between the instrument cluster and the airbag. Is the communication system normal? → <b>Yes</b> To Step 4. → <b>No</b> Check communication system between the instrument cluster and the SRS for failure and repair, replace if necessary,</p>
4. Replace the instrument cluster.	<p>A. Replace the instrument cluster. <b>Refer to: Replacement of instrument cluster</b> Is the system normal? → <b>Yes</b> Fault solved. → <b>No</b> To Step 5.</p>

Airbag system



Test condition	Details/results/measures
5. Replace the airbag control unit.	
	<p>A. Replace the airbag control unit.</p> <p><b>Refer to: Replacement of airbag control module.</b></p> <p>Verify that the system is operated normally.</p>

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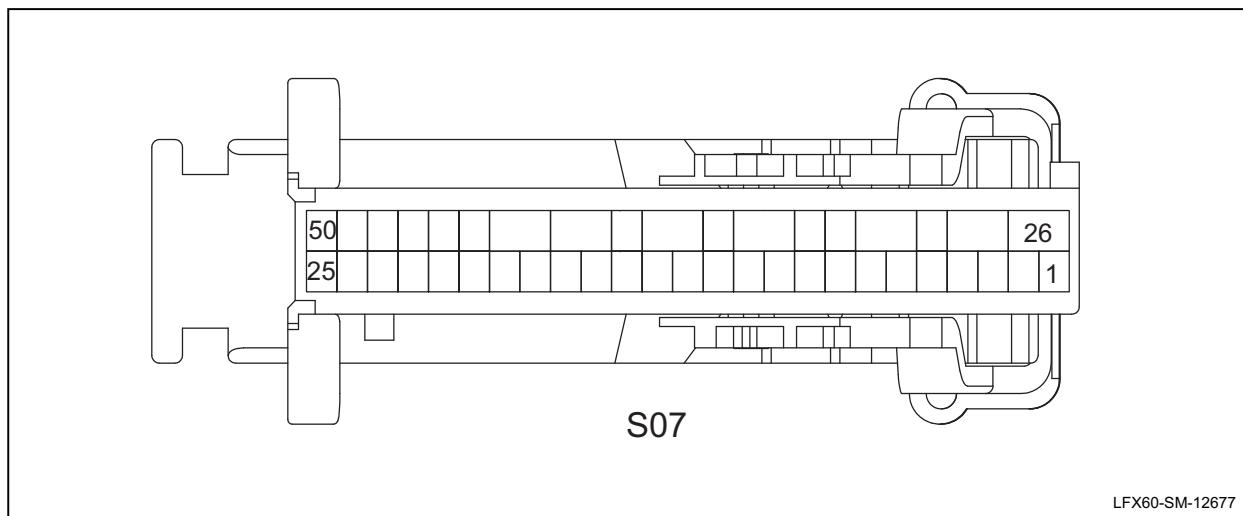


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## Control module terminal list



Terminal number	Wire diameter/color	Terminal description
S07-01	0.50 G/Bl	Drive signal of Left warning seat belt is low
S07-02	0.50 B/Bl	Drive signal of Left warning seat belt is high
S07-03	0.50 Br	Drive signal of Right warning seat belt is high
S07-04	0.50 Bl	Drive signal of Right warning seat belt is low
S07-05	0.50 R/Y	Power source
S07-06	B	Grounding
S07-07		
S07-08	-	-
S07-09	-	-
S07-10	0.50 Br	Drive signal of driver airbag is high
S07-11	0.50 V	Drive signal of driver airbag is low
S07-12	-	-
S07-13	0.50W	Drive signal of passenger airbag is low
S07-14	0.50 P	Drive signal of passenger airbag is high
S07-15	0.30 BI/B	PCAN-H
S07-16	-	-
S07-17	-	-
S07-18	-	-
S07-19	-	-
S07-20	-	-
S07-21	-	-
S07-22	-	-

Airbag system



Terminal number	Wire diameter/color	Terminal description
S07-23	-	-
S07-24	-	-
S07-25	-	-
S07-26	-	-
S07-27	-	-
S07-28	-	-
S07-29	-	-
S07-30	-	-
S07-31	-	-
S07-32	-	-
S07-33	-	-
S07-34	0.30Br/O	Collision signal output
S07-35	-	-
S07-36	-	-
S07-37	-	-
S07-38	-	-
S07-39	-	-
S07-40	0.30 BI/W	PCAN-L

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## DTC (DTC) List

Fault code (DTC)	Fault description
B111717	The voltage is too high
B111716	The voltage is too low
B10101B	High resistance of driver's airbag circuit
B10101A	Low resistance of driver's airbag circuit
B101011	Driver's airbag circuit short to ground
B101012	Driver's airbag circuit short to power
B10111B	High resistance of co-driver's airbag circuit
B10111A	Low resistance of co-driver's airbag circuit
B101111	Co-driver's airbag circuit short to ground.
B101112	Co-driver's airbag circuit short to power
B10121B	Driver's preloader resistance too high
B10121A	Driver's preloader resistance too low
B101211	Driver's airbag tensioner resistance circuit short to ground
B101212	Driver's airbag tensioner resistance circuit short to power
B10131B	Hi resistance circuit of co-driver's airbag tensioner
B10131A	Lo resistance circuit of co-driver's airbag tensioner
B101311	Co-driver's airbag tensioner short to ground
B101312	Co-driver's airbag tensioner short to power
B100049	Internal fault (replace ACU)
B105000	Frontal impact record (change the ACU)
B103414	Hard wire collision output channel 1 short to ground
B103412	Hard wire collision output channel 1 short to power
B103413	Hard wire collision output channel 2 short to ground
B103411	Hard wire collision output channel 2 short to power
B100100	Mismatch vehicle model
B105600	Continuous failure condition of watchdog
U007300	CAN bus off-line
U015500	IC signal loss

Airbag system



## DTC diagnosis flow index

DTC	Description	Diagnostic process
B111717	The voltage is too high	Refer to: DTC B111717, B111716
B111716	The voltage is too low	
B10101B	High resistance of driver's airbag circuit	Refer to: DTC B10101B, B10101A, B101011, B101012
B10101A	Low resistance of driver's airbag circuit	
B101011	Driver's airbag circuit short to ground	
B101012	Driver's airbag circuit short to power	
B10111B	High resistance of co-driver's airbag circuit	Refer to: DTC B10111B, B10111A, B101111, B101112
B10111A	Low resistance of co-driver's airbag circuit	
B101111	Co-driver's airbag circuit short to ground.	
B101112	Co-driver's airbag circuit short to power	
B10121B	Driver's preloader resistance too high	Refer to: DTC B10121B, B10121A, B101211, B101212
B10121A	Driver's preloader resistance too low	
B101211	Driver's airbag tensioner resistance circuit short to ground	
B101212	Driver's airbag tensioner resistance circuit short to power	
B10131B	Hi resistance circuit of co-driver's airbag tensioner	Refer to: DTC B10131B, B10131A, B101311, B101312
B10131A	Lo resistance circuit of co-driver's airbag tensioner	
B101311	Co-driver's airbag tensioner short to ground	
B101312	Co-driver's airbag tensioner short to power	
B100049	Internal fault (replace ACU)	Refer to: DTC B100049, B105000
B105000	Frontal impact record (change the ACU)	
B103414	Hard wire collision output channel 1 short to ground	Refer to: DTC B103414, B103412, B100100, B105600
B103412	Hard wire collision output channel 1 short to power	
B100100	Mismatch vehicle model	
B105600	Continuous failure condition of watchdog	
U007300	CAN bus off-line	Refer to: DTC U007300, U015500
U01550	IC signal loss	



## DTC B111717, B111716

## DTC description

DTC	Description	Definition
B111717	The voltage is too high	• Airbag control unit monitors system operating voltage abnormal
B111716	The voltage is too low	

## Possible reasons

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B111717	Line and check the hardware	Voltage exceeds 17 V and maintains 10s	<ul style="list-style-type: none"> <li>Charging system</li> <li>Failure of airbag control unit and its circuit</li> </ul>
B111716		Voltage less than 17V and maintains 10s	

## Diagnostic process

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the airbag control unit harness plug for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic meter and check the system for the other relevant DTCs. Is it OK after checking? →Yes To Step 3. →No Carry out the relevant fault diagnosis according to the DTCs.</p>
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC. B. Start the engine and check whether the DTC occurs again. Does DTC occur? →Yes To Step 4. →No System normal.</p>

## Airbag system



Test condition	Details/results/measures
4. Check the power supply system of vehicle.	<p>A. Check whether the power supply system of vehicle is normal. Is it OK after checking? →Yes To Step 5. →No Check the power supply system for fault.</p>
5. Check the airbag control module power line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the airbag control module harness plug S07. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter. <b>Standard voltage: 11 ~ 14 V</b> Is the voltage normal? →Yes To Step 6. →No Repair the airbag control module power line open circuit fault and replace the harness if necessary.</p>
6. Check the airbag control module ground line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the airbag control module harness plug S07. C. Measure the resistance between No.6 terminal of the harness plug S07 of the airbag control module and the reliable grounding. <b>Standard resistance: less than 5 Ω</b> Is the resistance normal? →Yes To Step 7. →No Check the airbag control module grounding circuit for open circuit failure, and replace if necessary. Harness.</p>
7. Replace the airbag control unit.	<p>A. Replace the airbag control unit. <b>Refer to: Replacement of airbag control module</b> Verify that the system is operated normally.</p>



## DTC B10101B, B10101A, B101011, B101012

### DTC description

DTC	Description	Definition
B10101B	High resistance of driver's airbag circuit	
B10101A	Low resistance of driver's airbag circuit	
B101011	Driver's airbag circuit short to ground	
B101012	Driver's airbag circuit short to power	<ul style="list-style-type: none"> <li>When the airbag control unit, based on the diagnostic current sent to the driver airbag power supply circuit, according to the situation of current changes in the circuit monitoring, compared to the stored preset standard value, set the fault code corresponding to the diagnostic results.</li> </ul>

### Possible reasons

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B10101B			
B10101A			
B101011	Line and check the hardware	<ul style="list-style-type: none"> <li>Line short to the ground or open circuit</li> <li>Line short to power</li> <li>Line short circuit</li> </ul>	<ul style="list-style-type: none"> <li>Line fault</li> <li>Clock spring</li> <li>Driver airbag</li> <li>Airbag control module</li> </ul>
B101012			

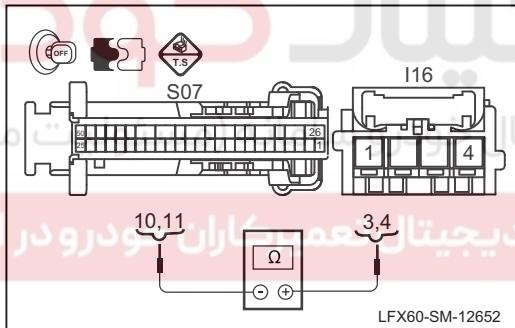
### Diagnostic process

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the airbag control unit and driver's side airbag harness plug for breakage, loose contact, aging or looseness.</p> <p>Is it OK after checking?</p> <p>→Yes To Step 2.</p> <p>→No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic tool to check whether the system has any other related trouble code. Whether the Check is normal?</p> <p>→Yes To Step 3.</p> <p>→No Carry out the relevant fault diagnosis according to the DTCs.</p>

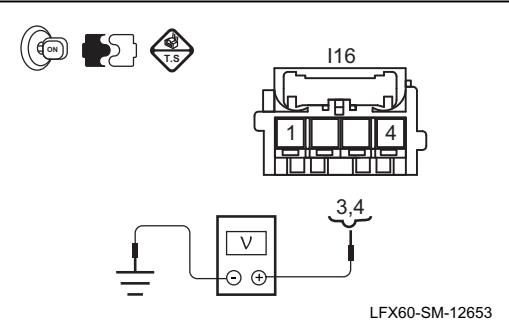
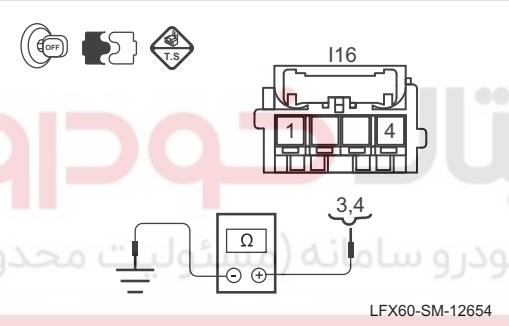
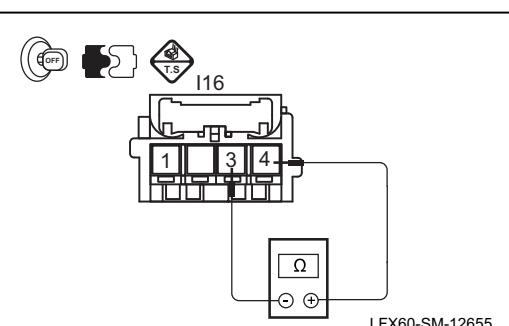
## Airbag system



Test condition	Details/results/measures
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC.</p> <p>B. Start the engine and check whether the DTC occurs again.</p> <p>Does DTC occur?</p> <p>→Yes To Step 4.</p> <p>→No System normal.</p>
4. Check the clock spring.	<p>A. Check that if the horn switch, multi-function steering wheel on the control button is normal, check the clock spring for signs of damage.</p> <p>Make sure the clock spring is normal?</p> <p>→Yes To Step 5.</p> <p>→No Clock failure, replace the clock spring.</p> <p>Refer to: replacement of clock spring.</p>
5. Check the drive signal circuit of the driver's airbag for continuity.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the harness plug S07 of the airbag control module, and disconnect harness plug I16 of the driver's airbag.</p> <p>C. Measure the resistance between the No.11 terminal of the harness plug S07 of the airbag control module and the No.3 terminal of the harness plug I16 of the driver airbag.</p> <p>D. Measure the resistance between the No.10 terminal of the harness plug S07 of the airbag control module and the No.4 terminal of the harness plug I16 of the driver airbag.</p> <p><b>Standard resistance: less than 1 Ω</b></p> <p>Is the resistance normal?</p> <p>→Yes To Step 6.</p> <p>→No Check the drive signal circuit of the driver airbag for open circuit failure, replace the wiring harness if necessary.</p>

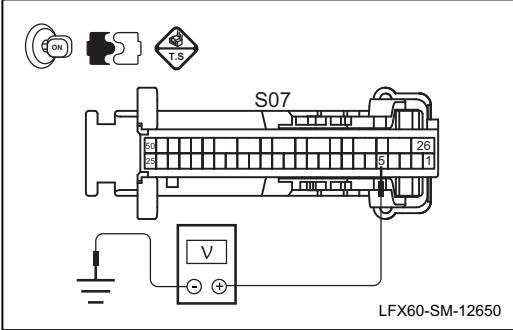
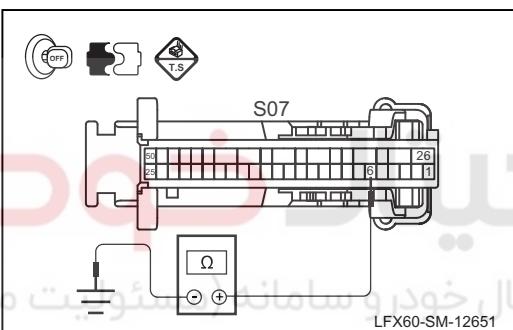




Test condition	Details/results/measures
<p>6. Check the drive signal circuit of the driver airbag and power supply for short circuit.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the driver's airbag harness plug I16.      C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.      D. Measure the voltage between the No.3, 4 terminals of the harness plug I16 of the driver airbag and the reliable grounding with a multimeter.  <b>Standard voltage: 0V</b>      Is the voltage normal?      →Yes      To Step 7.      →No      Check the drive signal circuit of the driver airbag and power supply for short circuit failure, and replace the wiring harness if necessary.</p>
<p>7. Check the drive signal circuit of the driver airbag and grounding for short circuit.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the driver's airbag harness plug I16.      C. Measure the resistance between the No.3, 4 terminals of the harness plug I16 of the driver airbag and the reliable grounding with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is the resistance normal?      →Yes      To Step 8.      →No      Check the drive signal circuit of the driver airbag and grounding for short circuit failure, and replace the wiring harness if necessary.</p>
<p>8. Check the drive signal circuits of the driver's side airbag for short circuit with each other.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the driver's airbag harness plug I16.      C. Measure the resistance between the No.3 and No.4 terminals of the harness plug I16 of the driver airbag with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is it OK after checking?      →Yes      To Step 9.      →No      Check the drive signal circuits of the driver's airbag for short circuit failure with each other, and replace the wiring harness if necessary.</p>

## Airbag system



Test condition	Details/results/measures
9. Check the airbag control module power line. 	A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the airbag control module harness plug S07. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter. <b>Standard voltage: 11 ~ 14 V</b> Is it OK after checking? →Yes To Step 10. →No Repair the airbag control module power line open circuit fault and replace the harness if necessary.
10. Check the airbag control module ground line. 	A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the airbag control module harness plug S07. C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter. <b>Standard resistance: less than 5 Ω</b> Is it OK after checking? →Yes To Step 11. →No Repair the airbag control module ground line open circuit fault and replace the harness if necessary.
11. Replace the driver airbag.	A. Replace the driver's side airbag. <b>Refer to: Replacement of the driver airbag</b> Is it OK after checking? →Yes The fault is solved and the system is normal. →No To Step 12.
12. Replace the airbag control unit.	A. Replace the safety control unit. <b>Refer to: Replacement of airbag control module</b> Verify that the system is operated normally.

**DTC B10111B, B10111A, B101111, B101112****DTC description**

DTC	Description	Definition
B10111B	High resistance of co-driver's airbag circuit	
B10111A	Low resistance of co-driver's airbag circuit	
B101111	Co-driver's airbag circuit short to ground.	
B101112	Co-driver's airbag circuit short to power	<ul style="list-style-type: none"> <li>When the airbag control unit, based on the diagnostic current sent to the passenger airbag power supply circuit, according to the situation of current changes in the circuit monitoring, compared to the stored preset standard value, set the fault code corresponding to the diagnostic results.</li> </ul>

**Possible reasons**

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B10101B			
B10101A			
B101011			
B101012	Line and check the hardware	<ul style="list-style-type: none"> <li>Line short to the ground or open circuit</li> <li>Line short to power</li> <li>Line short circuit</li> </ul>	<ul style="list-style-type: none"> <li>Line fault</li> <li>Passenger airbag</li> <li>Airbag control module</li> </ul>

**Diagnostic process**

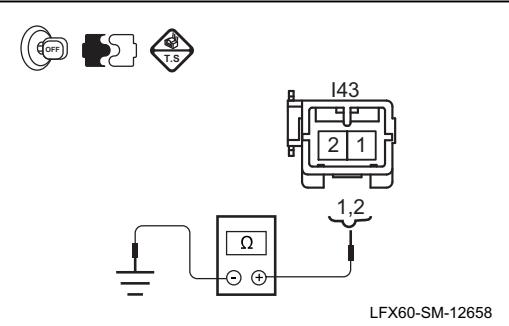
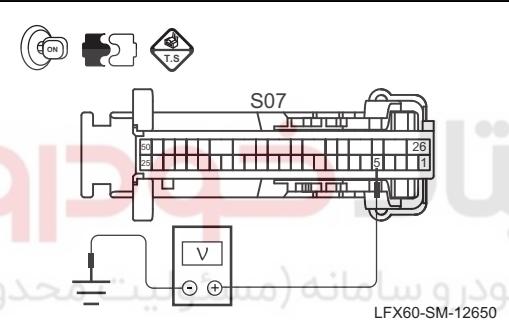
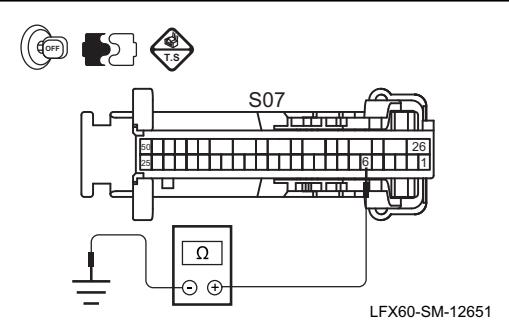
Test condition	Details/results/measures
1. General inspection.	<p>A. Check the airbag control unit and driver's side airbag harness plug for breakage, loose contact, aging or looseness. Is it OK after checking?</p> <p>→Yes To Step 2. →No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic meter and check the system for the other relevant DTCs. Is it OK after checking?</p> <p>→Yes To Step 3. →No Carry out the relevant fault diagnosis according to the DTCs.</p>

## Airbag system



Test condition	Details/results/measures
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC.</p> <p>B. Start the engine and check whether the DTC occurs again.</p> <p>Does DTC occur?</p> <p>→Yes To Step 4.</p> <p>→No System normal.</p>
4. Check the drive signal circuit of the passenger's airbag for continuity.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the airbag control module harness plug S07.</p> <p>C. Disconnect the harness plug I43 of the passenger airbag.</p> <p>D. Measure the resistance between the No.14 terminal of the harness plug S07 of the airbag control module and the No.2 terminal of the harness plug I43 of the passenger airbag.</p> <p>E. Measure the resistance between the No.13 terminal of the harness plug S07 of the airbag control module and the No.1 terminal of the harness plug I43 of the passenger airbag.</p> <p><b>Standard resistance: less than 5 Ω</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 5.</p> <p>→No Check the drive signal circuit of the passenger airbag for open circuit failure, and replace the wiring harness if necessary.</p>
5. Check the drive signal circuit of the passenger airbag and power supply for short circuit.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the assistant driver's airbag harness plug I43.</p> <p>C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.</p> <p>D. Measure the voltage between the No.1, 2 terminals of the harness plug I43 of the passenger airbag and the reliable grounding with a multimeter.</p> <p><b>Standard voltage: 0 V</b></p> <p>Is the voltage normal?</p> <p>→Yes To Step 6.</p> <p>→No Check the drive signal circuit of the passenger airbag and power supply for short circuit failure, and replace the wiring harness if necessary.</p>



Test condition	Details/results/measures
6. Check the drive signal circuit of the passenger airbag and grounding for short circuit.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the assistant driver's airbag harness plug I43.      C. Measure the resistance between the No.1, 2 terminals of the harness plug I43 of the passenger airbag and the reliable grounding with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is the resistance normal?      →Yes      To Step 7.      →No      Check the drive signal circuit of the driver airbag and grounding for short circuit failure, and replace the wiring harness if necessary.</p>
7. Check the airbag control module power line.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the airbag control module harness plug S07.      C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.      D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter.  <b>Standard voltage: 11 ~ 14 V</b>      Is it OK after checking?      →Yes      To Step 8.      →No      Repair the airbag control module power line open circuit fault and replace the harness if necessary.</p>
8. Check the airbag control module ground line.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the airbag control module harness plug S07.      C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter.  <b>Standard resistance: less than 5 Ω</b>      Is the resistance normal?      →Yes      To Step 9.      →No      Repair the airbag control module ground line open circuit fault and replace the harness if necessary.</p>

Airbag system



Test condition	Details/results/measures
9. Replace the passenger airbag.	<p>A. Replace the driver's side airbag.  <b>Refer to: Replacement of the passenger airbag</b>            Is it OK after checking?            →<b>Yes</b>            The fault is solved and the system is normal.            →<b>No</b>            To Step 11.</p>
10. Replace the airbag control unit.	<p>A. Replace the airbag control unit.  <b>Refer to: Replacement of airbag control module</b>            Verify that the system is operated normally.</p>

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



09

9-1339



DTC B10121B, B10121A, B101211, B101212

**DTC description**

DTC	Description	Definition
B10121B	Driver's preloader resistance too high	<ul style="list-style-type: none"> <li>When the airbag control unit, based on the diagnostic current sent to the driver belt pretensioner power supply circuit, according to the situation of current changes in the circuit monitoring, compared to the stored preset standard value, set the fault code corresponding to the diagnostic results.</li> </ul>
B10121A	Driver's preloader resistance too low	
B101211	Driver's airbag tensioner resistance circuit short to ground	
B101212	Driver's airbag tensioner resistance circuit short to power	

**Possible reasons**

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B10121B			
B10121A			
B101211			
B101212	Line and check the hardware	<ul style="list-style-type: none"> <li>Line short to the ground or open circuit</li> <li>Line short to power</li> <li>Line short circuit</li> </ul>	<ul style="list-style-type: none"> <li>Line fault</li> <li>Driver's belt pretensioner</li> <li>Airbag control module</li> </ul>

**Diagnostic process**

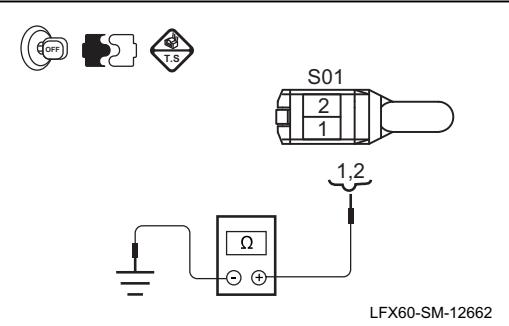
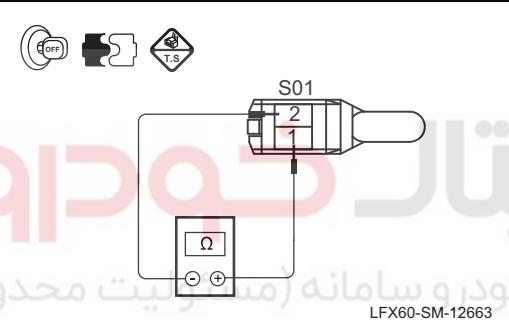
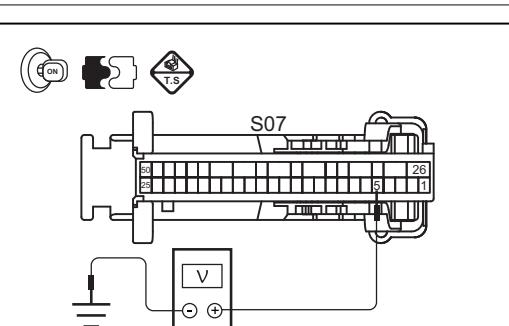
Test condition	Details/results/measures
1. General inspection.	<p>پیتال تعمیرکاران خودرو در ایران</p> <p>A. Check the harness plug of the airbag control unit, and the driver's belt pretensioner for any signs of damage, poor contact, aging, loose and so on.</p> <p>Is it OK after checking?</p> <p>→Yes To Step 2. →No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic meter and check the system for the other relevant DTCs.</p> <p>Is it OK after checking?</p> <p>→Yes To Step 3. →No Carry out the relevant fault diagnosis according to the DTCs.</p>

## Airbag system



Test condition	Details/results/measures
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC.</p> <p>B. Start the engine and check whether the DTC occurs again.</p> <p>Does DTC occur?</p> <p>→Yes To Step 4.</p> <p>→No System normal.</p>
4. Check the signal circuit of the driver's belt pretensioner for continuity.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the airbag control module harness plug S07.</p> <p>C. Disconnect of the harness plug S01 of the driver's belt pretensioner.</p> <p>D. Measure the resistance between the No.1 terminal of the harness plug S07 of the airbag control module and the No.1 terminal of the harness plug S01 of the driver's belt pretensioner.</p> <p>E. Measure the resistance between the No.2 terminal of the harness plug S07 of the airbag control module and the No.2 terminal of the harness plug S01 of the driver's belt pretensioner.</p> <p><b>Standard resistance: less than 5 Ω</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 5.</p> <p>→No Check the signal circuit of the driver's belt pretensioner for open circuit failure, and replace the wiring harness if necessary.</p>
5. Check the drive signal circuit of the driver's belt pretensioner and power supply for short circuit.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the driver's side preloader harness plug S01.</p> <p>C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.</p> <p>D. Measure the voltage between the No.1, 2 terminals of the harness plug S01 of the driver's belt pretensioner and the reliable grounding with a multimeter.</p> <p><b>Standard voltage: 0V</b></p> <p>Is the voltage normal?</p> <p>→Yes To Step 6.</p> <p>→No Check the drive signal circuit of the driver's belt pretensioner and power supply for short circuit failure, and replace the wiring harness if necessary.</p>



Test condition	Details/results/measures
<p>6. Check the drive signal circuit of the driver's belt pretensioner and grounding for short circuit.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the driver's side preloader harness plug S01.      C. Measure the resistance between the No.1, 2 terminals of the harness plug S01 of the driver's belt pretensioner and the reliable grounding with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is the resistance normal?      →Yes      To Step 7.      →No      Check the drive signal circuit of the driver's belt pretensioner and grounding for short circuit failure, and replace the wiring harness if necessary.</p>
<p>7. Check the drive signal circuit of the passenger's belt pretensioner and power supply for short circuit.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the driver's side preloader harness plug S01.      C. Measure the resistance between the No.1 and No.2 terminals of the harness plug S01 of the driver's belt pretensioner with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is the resistance check normal?      →Yes      To Step 8.      →No      Check the drive signal circuit of the driver's belt pretensioner for short circuit failure with each other, and replace the wiring harness if necessary.</p>
<p>8. Check the airbag control module power line.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the airbag control module harness plug S07.      C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.      D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter.  <b>Standard voltage: 11 ~ 14 V</b>      Is the voltage normal?      →Yes      To Step 9.      →No      Repair the airbag control module power line open circuit fault and replace the harness if necessary.</p>

## Airbag system



Test condition	Details/results/measures
9. Check the airbag control module ground line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the airbag control module harness plug S07.</p> <p>C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter.</p> <p><b>Standard resistance: less than 5 Ω</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 10.</p> <p>→No Repair the airbag control module ground line open circuit fault and replace the harness if necessary.</p>
10. Replace the driver's belt pretensioner	<p>A. Replace the driver's belt pretensioner</p> <p>Is the system normal?</p> <p>→Yes The fault is solved and the system is normal.</p> <p>→No To Step 11.</p>
11. Replace the airbag control unit.	<p>A. Replace the airbag control unit.</p> <p><b>Refer to: Replacement of airbag control module</b></p> <p>Verify that the system is operated normally.</p>

09

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

9-1343



## DTC B10131B, B10131A, B101311, B101312

## DTC description

DTC	Description	Definition
B10131B	Hi resistance circuit of co-driver's airbag tensioner	<ul style="list-style-type: none"> <li>When the airbag control unit, based on the diagnostic current sent to the passenger belt pretensioner power supply circuit, according to the situation of current changes in the circuit monitoring, compared to the stored preset standard value, set the fault code corresponding to the diagnostic results.</li> </ul>
B10131A	Lo resistance circuit of co-driver's airbag tensioner	
B101311	Co-driver's airbag tensioner short to ground	
B101312	Co-driver's airbag tensioner short to power	

## Possible reasons

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B10131B			
B10131A			
B101311			
B101312	Line and check the hardware	<ul style="list-style-type: none"> <li>Line short to the ground or open circuit</li> <li>Line short to power</li> <li>Line short circuit</li> </ul>	<ul style="list-style-type: none"> <li>Line fault</li> <li>Passenger's belt pretensioner</li> <li>Airbag control module</li> </ul>

## Diagnostic process

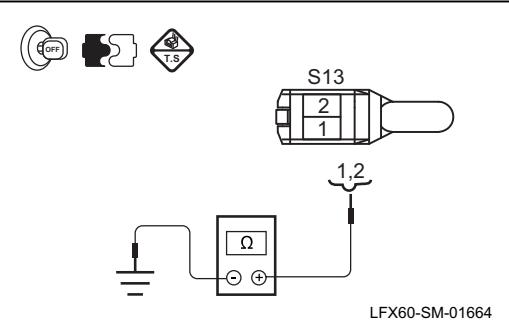
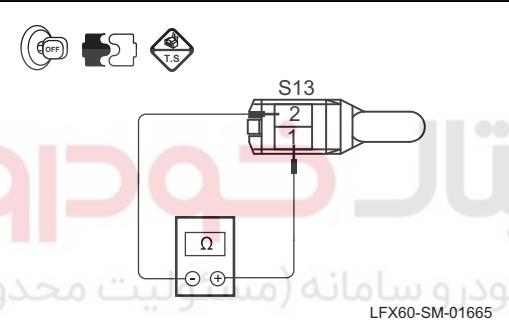
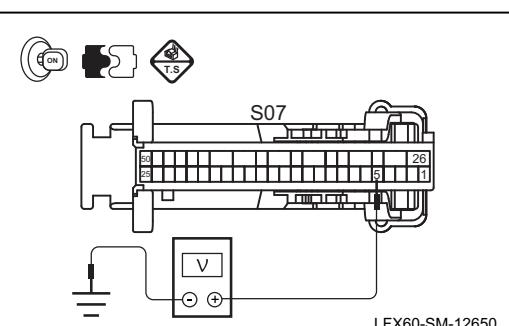
Test condition	Details/results/measures
1. General inspection.	<p>1. General inspection.</p> <p>ا. Check the harness plug of the airbag control unit, and the belt pretensioner on the passenger side for any signs of damage, poor contact, aging, loose and so on. Is it OK after checking?</p> <p>→Yes To Step 2.</p> <p>→No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>2. Read the DTC with the diagnostic meter.</p> <p>A. Connect the diagnostic meter and check the system for the other relevant DTCs. Is it OK after checking?</p> <p>→Yes To Step 3.</p> <p>→No Carry out the relevant fault diagnosis according to the DTCs.</p>

## Airbag system



Test condition	Details/results/measures
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC.</p> <p>B. Start the engine and check whether the DTC occurs again.</p> <p>Does DTC occur?</p> <p>→Yes To Step 4.</p> <p>→No System normal.</p>
4. Check the signal circuit of the passenger's belt pretensioner for continuity.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the harness plug S07 of the airbag control module, and disconnect harness plug S13 of the passenger's belt pretensioner.</p> <p>C. Measure the resistance between the No.3 terminal of the harness plug S07 of the airbag control module and the No.2 terminal of the harness plug S13 of the passenger's belt pretensioner.</p> <p>D. Measure the resistance between the No.4 terminal of the harness plug S07 of the airbag control module and the No.1 terminal of the harness plug S13 of the passenger's belt pretensioner.</p> <p><b>Standard resistance: less than 5 Ω</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 5.</p> <p>→No Check the signal circuit of the passenger's belt pretensioner for open circuit failure, and replace the wiring harness if necessary.</p>
5. Check the drive signal circuit of the passenger's belt pretensioner and power supply for short circuit.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the assistant driver's side preloader harness plug S13.</p> <p>C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.</p> <p>D. Measure the voltage between the No.1, 2 terminals of the harness plug S13 of the passenger's belt pretensioner and the reliable ground with a multimeter.</p> <p><b>Standard voltage: 0V</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 6.</p> <p>→No Check the drive signal circuit of the passenger's belt pretensioner and power supply for short circuit failure, and replace the wiring harness if necessary.</p>

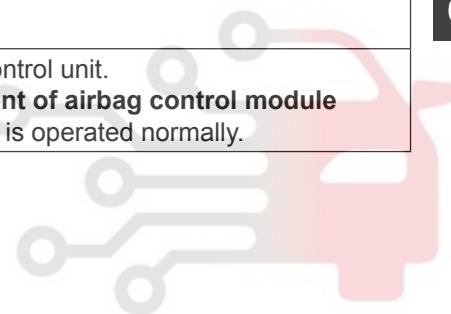


Test condition	Details/results/measures
<p>6. Check the drive signal circuit of the passenger's belt pretensioner and grounding for short circuit.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the assistant driver's side preloader harness plug S13.      C. Measure the resistance between the No.1, 2 terminals of the harness plug S13 of the passenger's belt pretensioner and the reliable ground with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is it OK after checking?      →Yes      To Step 7.      →No      Check the drive signal circuit of the passenger's belt pretensioner and grounding for short circuit failure, and replace if necessary.</p>
<p>7. Check the drive signal circuits of the passenger's belt pretensioner for short circuit with each other.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the assistant driver's side preloader harness plug S13.      C. Measure the resistance between the No.1 and No.2 terminals of the harness plug S13 of the passenger's belt pretensioner with a multimeter.  <b>Standard resistance: 10MΩ or higher</b>      Is it OK after checking?      →Yes      To Step 8.      →No      Check the drive signal circuit of the passenger's belt pretensioner for short circuit failure with each other, and replace the wiring harness if necessary.</p>
<p>8. Check the airbag control module power line.</p> 	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the airbag control module harness plug S07.      C. Connect the negative connector of the battery, start the switch so that the power mode is in "ON" state.      D. Measure the voltage between No.5 terminal of the harness plug S07 of the airbag control module and the reliable grounding.  <b>Standard voltage: 11 ~ 14 V</b>      Is it OK after checking?      →Yes      To Step 9.      →No      Check the power supply circuit of the airbag control module circuit for open circuit failure, and replace the wiring harness if necessary.</p>

Test condition	Details/results/measures
9. Check the airbag control module ground line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the airbag control module harness plug S07.</p> <p>C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter.</p> <p><b>Standard resistance: less than 5Ω</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 10.</p> <p>→No Repair the airbag control module ground line open circuit fault and replace the harness if necessary.</p>
10. Replace the assistant driver's side preloader.	<p>A. Replace the assistant driver's side preloader.</p> <p>Is the system normal?</p> <p>→Yes The fault is solved and the system is normal.</p> <p>→No To Step 11.</p>
11. Replace the airbag control unit.	<p>A. Replace the airbag control unit.</p> <p><b>Refer to: Replacement of airbag control module</b></p> <p>Verify that the system is operated normally.</p>

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



**DTC B100049, B105000****DTC description**

DTC	Description	Definition
B100049	Internal fault (replace ACU)	<ul style="list-style-type: none"> <li>ACU internal fault</li> </ul>
B105000	Frontal impact record (replace ACU)	

**Possible reasons**

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B100049		<ul style="list-style-type: none"> <li>Internal fault</li> </ul>	<ul style="list-style-type: none"> <li>Internal fault</li> </ul>
B105000		<ul style="list-style-type: none"> <li>A collision has occurred</li> </ul>	

**Diagnostic process**

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the airbag control unit harness plug for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic meter and check the system for the other relevant DTCs. Is it OK after checking? →Yes To Step 3. →No Carry out the relevant fault diagnosis according to the DTCs.</p>
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC. B. Start the engine and check whether the DTC occurs again. Does DTC occur? →Yes To Step 4. →No System normal.</p>

## Airbag system



Test condition	Details/results/measures
4. Check the airbag control module power line.  LFX60-SM-12650	A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the airbag control module harness plug S07. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter. <b>Standard voltage: 11 ~ 14 V</b> Is it OK after checking? →Yes To Step 5. →No Repair the airbag control module power line open circuit fault and replace the harness if necessary.
5. Check the grounding circuit of the airbag control module  LFX60-SM-12651	A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the airbag control module harness plug S07. C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter. <b>Standard resistance: less than 5 Ω</b> Is it OK after checking? →Yes To Step 6. →No Repair the airbag control module ground line open circuit fault and replace the harness if necessary.
6. Replace the assistant driver's side preloader.	A. Replace the assistant driver's side preloader. Is the system normal? →Yes The fault is solved and the system is normal. →No To Step 7.
7. Replace the airbag control unit.	A. Replace the airbag control unit. <b>Refer to: Replacement of airbag control module.</b> Verify that the system is operated normally.



DTC B103414, B103412, B100100, B105600

## DTC description

DTC	Description	Definition
B103414	Hard wire collision output channel 1 short to ground	• The system has detected a circuit fault
B103412	Hard wire collision output channel 1 short to power	
B100100	Mismatch vehicle model	
B105600	Continuous failure condition of watchdog	

## Possible reasons

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
B10131B	Line and check the hardware	<ul style="list-style-type: none"> <li>Line short to the ground or open circuit</li> <li>Line short to power</li> <li>Line short circuit</li> </ul>	<ul style="list-style-type: none"> <li>Line fault</li> <li>Airbag control module</li> </ul>
B10131A			
B101311			
B101312			

## Diagnostic process

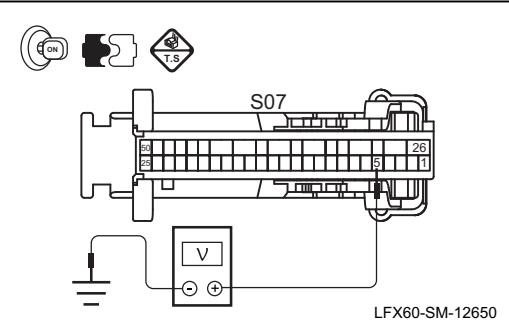
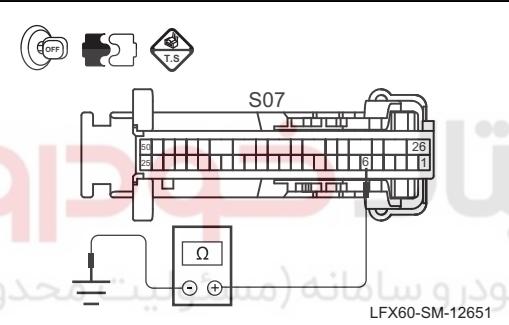
Test condition	Details/results/measures
1. General inspection.	<p>A. Check the harness plug of the airbag control unit, and the belt pretensioner on the passenger side for any signs of damage, poor contact, aging, loose and so on. Is it OK after checking?</p> <p>→Yes To Step 2. →No Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic meter and check the system for the other relevant DTCs. Is it OK after checking?</p> <p>→Yes To Step 3. →No Carry out the relevant fault diagnosis according to the DTCs.</p>

## Airbag system



Test condition	Details/results/measures
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC.</p> <p>B. Start the engine and check whether the DTC occurs again.</p> <p>Does DTC occur?</p> <p>→Yes To Step 4.</p> <p>→No System normal.</p>
4. Check the airbag output signal circuit and power supply for short circuit.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the airbag control module harness plug S07.</p> <p>C. Measure the voltage between No.34 terminal of the harness plug S07 of the airbag control module and the reliable grounding.</p> <p><b>Standard voltage: 0V</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 5.</p> <p>→No Check the airbag output signal circuit and power supply for failure, and replace the wiring harness if necessary.</p>
5. Check the airbag output signal circuit and grounding for short circuit.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.</p> <p>B. Disconnect the airbag control module harness plug S07.</p> <p>C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.</p> <p>D. Measure the resistance between No.34 terminal of the harness plug S07 of the airbag control module and the reliable grounding.</p> <p><b>Standard resistance: 10MΩ or higher</b></p> <p>Is it OK after checking?</p> <p>→Yes To Step 6.</p> <p>→No Check the airbag output signal circuit and grounding for short circuit failure, and replace the wiring harness if necessary.</p>



Test condition	Details/results/measures
<p>6. Check the airbag control module power line.</p>  <p>LFX60-SM-12650</p>	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the airbag control module harness plug S07.      C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.      D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter.  <b>Standard voltage: 11 ~ 14 V</b>      Is it OK after checking?      →Yes      To Step 7.      →No      Repair the airbag control module power line open circuit fault and replace the harness if necessary.</p>
<p>7. Check the airbag control module ground line.</p>  <p>LFX60-SM-12651</p>	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.      B. Disconnect the airbag control module harness plug S07.      C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter.  <b>Standard resistance: less than 5 Ω</b>      Is it OK after checking?      →Yes      To Step 8.      →No      Repair the airbag control module ground line open circuit fault and replace the harness if necessary.</p>
<p>9. Replace the airbag control unit.</p>	<p>A. Replace the airbag control unit.  <b>Refer to: Replacement of airbag control module</b>      Verify that the system is operated normally.</p>

Airbag system

**DTC U007300, U015500****DTC description**

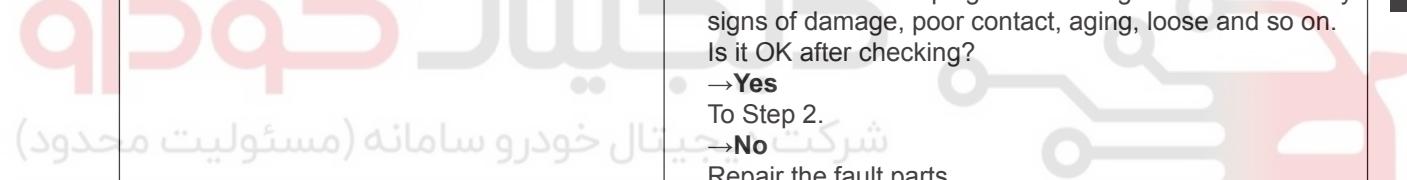
DTC	Description	Definition
U007300	CAN bus off-line	<ul style="list-style-type: none"> <li>• Airbag control unit monitors system operating voltage abnormal</li> </ul>
U015500	IC signal loss	

**Possible reasons**

DTC	Check the strategy	Set the condition (control strategy)	Define the fault location
U007300	Line and check the hardware	<ul style="list-style-type: none"> <li>• The CAN bus is offline for more than 400 ms</li> <li>• The dashboard signal is lost for more than 200 ms</li> </ul>	<ul style="list-style-type: none"> <li>• CAN bus</li> <li>• Airbag control module</li> </ul>
U015500			

**Diagnostic process**

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the harness plug of the airbag control unit for any signs of damage, poor contact, aging, loose and so on. Is it OK after checking?</p> <p>→ <b>Yes</b> To Step 2.</p> <p>→ <b>No</b> Repair the fault parts.</p>
2. Read the DTC with the diagnostic meter.	<p>A. Connect the diagnostic meter and check the system for the other relevant DTCs. Is it OK after checking?</p> <p>→ <b>Yes</b> To Step 3.</p> <p>→ <b>No</b> Carry out the relevant fault diagnosis according to the DTCs.</p>
3. Check whether the DTC can be cleared.	<p>A. Connect the diagnostic meter and access the airbag system to clear DTC.</p> <p>B. Start the engine and check whether the DTC occurs again.</p> <p>Does DTC occur?</p> <p>→ <b>Yes</b> To Step 4.</p> <p>→ <b>No</b> System normal.</p>





Test condition	Details/results/measures
4. Check the vehicle communication system.	<p>A. Check whether the vehicle communication system is normal.          Is it OK after checking?          →Yes          To Step 5.          →No          Check the communication system for fault.</p>
5. Check the airbag control module power line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.          B. Disconnect the airbag control module harness plug S07.          C. Connect the battery negative terminal and operate the start switch to turn the power to ON state.          D. Measure the voltage between the airbag control module harness plug S07 terminal 5 and the fixed ground point with the multimeter.  <b>Standard voltage: 11 ~ 14V</b>          Is it OK after checking?          →Yes          To Step 6.          →No          Repair the airbag control module power line open circuit fault and replace the harness if necessary.</p>
6. Check the airbag control module ground line.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal.          B. Disconnect the airbag control module harness plug S07.          C. Measure the resistance between the airbag control module harness plug S07 terminal 6 and the fixed ground point with the multimeter.  <b>Standard resistance: less than 5 Ω</b>          Is it OK after checking?          →Yes          To Step 7.          →No          Repair the airbag control module ground line open circuit fault and replace the harness if necessary.</p>
7. Replace the airbag control unit.	<p>A. Replace the airbag control unit.  <b>Refer to: Replacement of airbag control module</b>          Verify that the system is operated normally.</p>

## Removal and Installation

### Replacement of the driver airbag

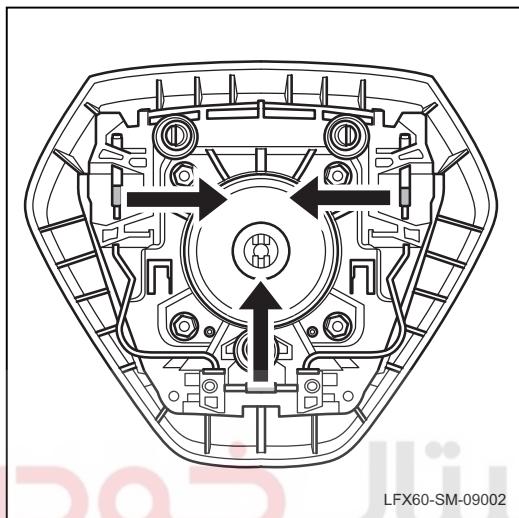
#### Removal

##### 1. Remove the driver's airbag.

(a). Disconnect the battery negative connector.

**①Note:**

Disconnect the battery negative terminal, wait for 90s at least and then continue operation.

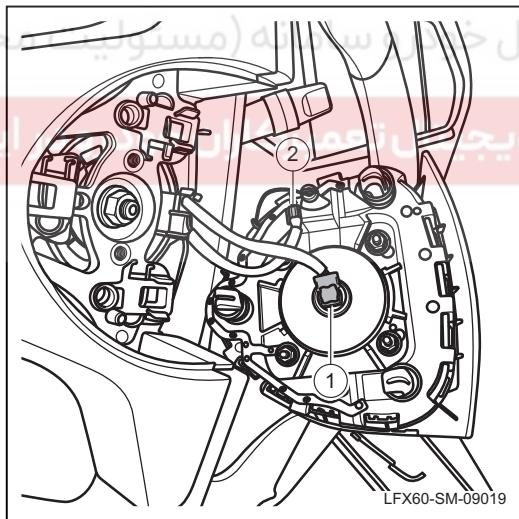


(b). Use the appropriate tool to pry the driver's airbag retainer in the direction of the arrow.

**①Note:**

Use tape to wrap around the appropriate tool to avoid damage to the lower surface of the steering wheel.

(c). Turn over the driver airbag.



(d). Disconnect the harness plug 1 of the driver airbag.

(e). Disconnect the harness plug 2 of speaker.

**①Note:**

**Do not pull the harness of the driver's airbag.**

(f). Take off the driver airbag assembly, and place in a safe position.

**①Note:**

**It is very dangerous to put airbag module facing down. Burst bladder can make the module bouncing, which may cause serious injury. Position the module facing up.**

#### Installation

##### 1. Install the driver airbag.

(a). The installation sequence is the reverse of the disassembly order.

(b). Check and clear the airbag fault code.



## Replacement of the passenger airbag

### Removal

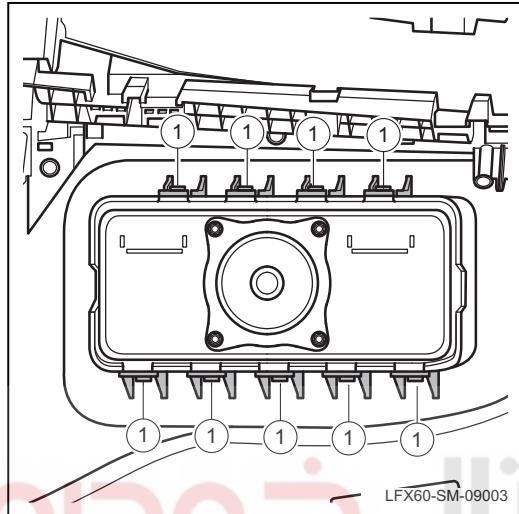
#### 1. Remove the passenger airbag

(a). Disconnect the battery negative connector.

**⚠ Note:**

**Disconnect the battery negative terminal, wait for 90s at least and then continue operation.**

(b). Install the upper body of dashboard, refer to: **Replacement of the upper body of dashboard.**



(c). Gently pry the connection tab 1 of occupant airbag and dashboard.

**⚠ Warning:**

**Disassemble of the front passenger airbag is not allowed.**

(d). Take off the passenger airbag, and place in a safe position.

**⚠ Note:**

**It is very dangerous to put airbag module facing down. Burst bladder can make the module bouncing, which may cause serious injury. Position the module facing up.**

### Installation

#### 1. Install passenger airbag

(a). The installation sequence is the reverse of the disassembly order.

(b). Remove the upper body of dashboard, refer to: **Replacement of the dashboard assembly.**

(c). Check and clear the airbag fault code.

## Replacement of multi-function steering wheel

### Removal

#### 1. Remove the multi-function steering wheel.

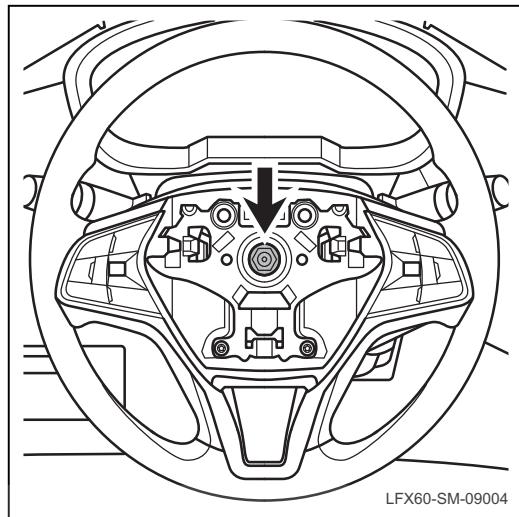
- Disconnect the battery negative connector.
- Remove the driver's airbag. **Refer to the replacement of driver's airbag.**

- Remove the lock nut of the multi-function steering wheel.

**Note:**

Before pulling out the steering wheel, make assembly mark on the steering shaft and the steering wheel to ensure that the parts can be mounted to the original position during installation.

- Pull out the multi-function steering wheel.



### Installation

#### 1. Install the multi-function steering wheel.

- The installation sequence is the reverse of the disassembly order.
- Install the driver airbag, refer to: **Replacement of the driver airbag.**

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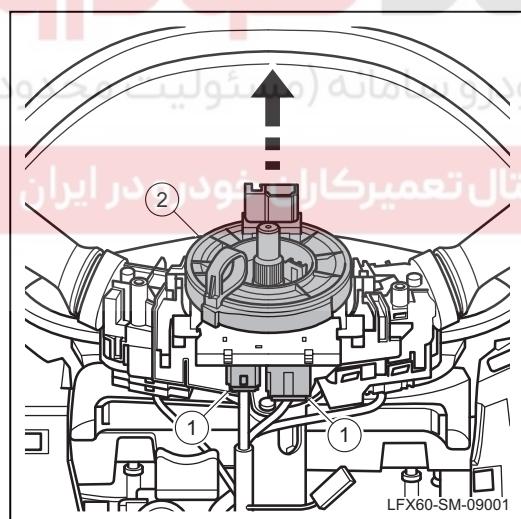
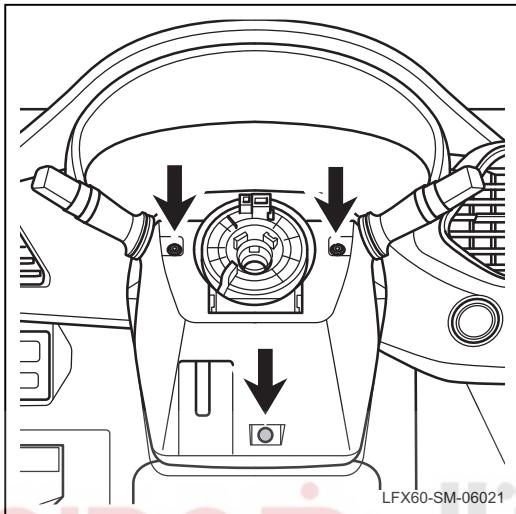




## Replacement of clock spring

### Removal

1. Remove the **clockspring**.
  - (a). Disconnect the battery negative connector.
  - (b). Remove the driver's airbag. **Refer to the replacement of driver's airbag.**
  - (c). Remove the multi-function steering wheel, **refer to:Replacement of multi-function steering wheel.**
  - (d). Remove the multi-function steering wheel upper and lower shield fixing bolt.
  - (e). Take down the multi-function steering wheel upper and lower shield.



- (f). Disconnect the harness plug 1 of clock spring.
- (g). Separate the jaws of the clock spring, remove the clock spring 2.

**Note:**

**Mark the clockspring or fix it with adhesive tape for reusing.**

### Installation

1. Install the **clockspring**.
  - (a). The installation sequence is the reverse of the disassembly order.
  - (b). Install the multi-function steering wheel, **refer to:Replacement of multi-function steering wheel**
  - (c). Install the driver airbag, **refer to:Replacement of the driver airbag**.

## Replacement of airbag control module

### Removal

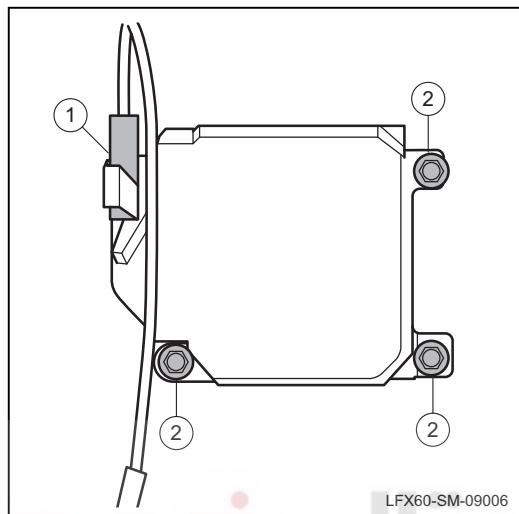
#### 1. Remove the airbag control module.

(a). Disconnect the battery negative connector.

**●Note:**

**Disconnect the battery negative terminal, wait for 90s at least and then continue operation.**

(b). Remove the sub-dashboard, refer to: Replacement of sub-dashboard.



- (c). Disconnect the harness plug 1 of the airbag control module.
- (d). Remove the fixing bolts 2 of the airbag control module.
- (e). Take off the airbag control module.

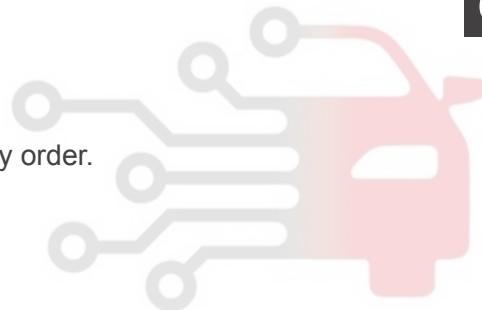
### Installation

#### 1. Install the airbag control module.

(a). The installation sequence is the reverse of the disassembly order.

09

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



9-1359



## Scrapped airbag

## Scrapped

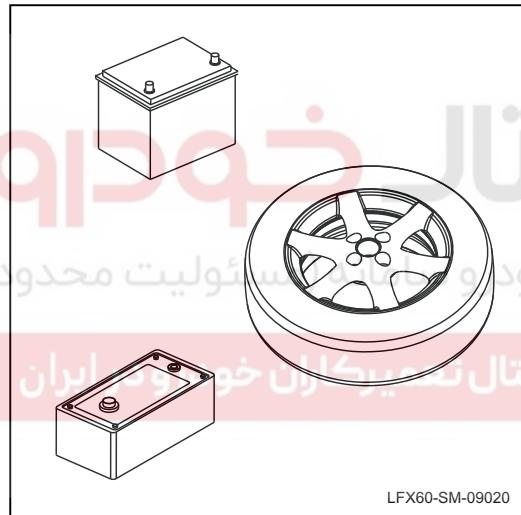
## 1. Scrapped airbag.

## △ Tips:

When dispose vehicle or airbag module, the discarded airbag should be fired, this can eliminate any risk of burning in certain circumstances. Please follow the steps below to detonate, if the abandoned driver airbag can not detonate by accident, please contact Lifan dealer maintenance department.

## △ Warning:

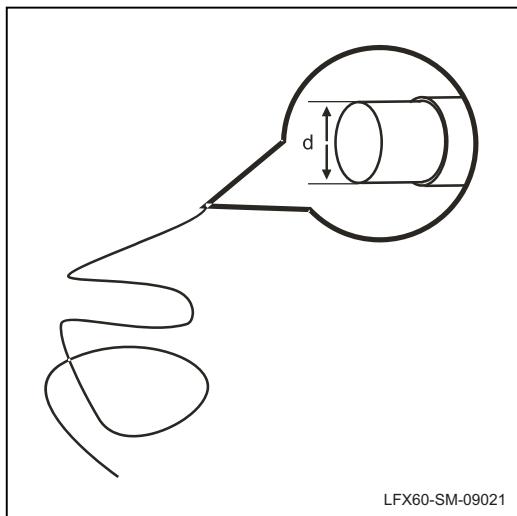
- Never dispose driver's airbag module not fired.
- When detonating the airbag, a great explosion will occur. It is advisable to detonate at the outdoor without affecting nearby residents.
- The special tool for firing from Lifan should be used to fire discarded airbag. Operate this in a place far from the electrical interference.
- Any operation of firing should be conducted 10m away from airbag in firing operation.
- The airbag will be hot after fired. Wait for at least 30min before touching.
- Safety gloves and goggle should be worn to handle fired airbag.
- Do not splash the water onto the detonated airbag assembly.
- Clean your hand after operation.



- (a). Prepare the special tool for airbag firing
- (b). Prepare a battery as power supply to fire airbag.
- (c). Prepare a discarded wheel with rim and some discarded wheel without rim, and some cardboard boxes and weights.



## Airbag system



(d). Prepare some discarded vehicle harness.

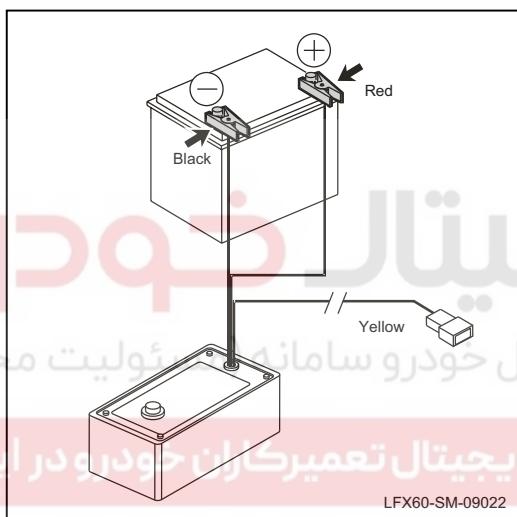
△Tips:

The diameter  $d$  of the bare portion of the wire harness should be  $> 1.3$  mm to meet the requirement that the cross-sectional area of the bare portion of the wire harness is greater than  $1.25$   $\text{mm}^2$ .

△Warning:

The harness are used to tie the airbag in firing operation. Thicker or thinner harness may break when the airbag burst. This is very dangerous, so the choice of bundled harness or equivalent must be reliable.

(e). Choose a suitable open area.



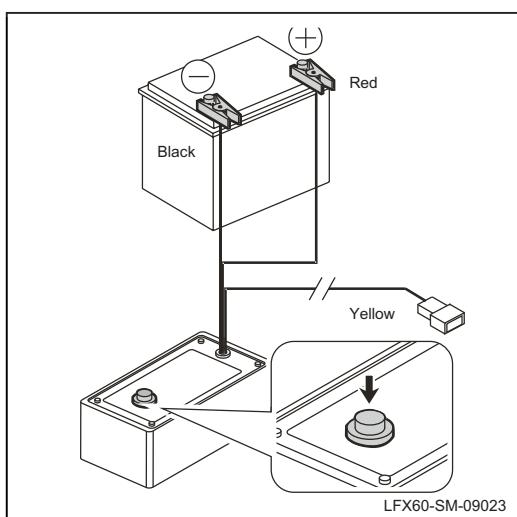
(f). Check the performance of the special tools for airbag detonation.

(g). Connect the special tools for airbag detonation to the battery.

△Tips:

Hold red clip of the special tool onto positive post of the battery, while black one onto negative. The yellow connector is for airbag module. Leave it alone in this step.

09



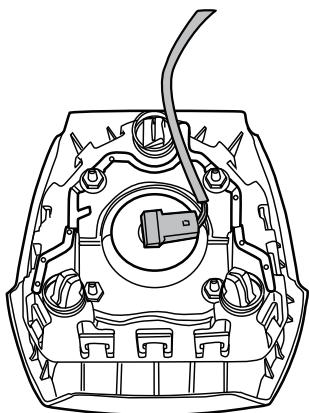
(h). Press down the activation switch of the special tools for airbag detonation to check that if the switch diode lamp is lit.

△Warning:

If the LED does not light, the special should not be used because of fault.

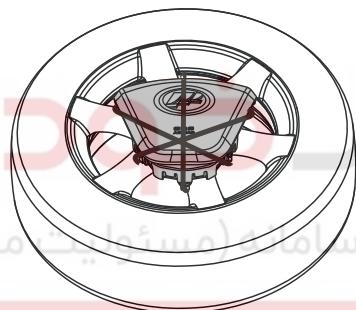
(g). Disconnect the special tools for airbag detonation from the battery.

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LFX60-SM-09024

(j). Connect the driver airbag adapter to the driver's airbag module.



LFX60-SM-09025

(k). Fix the driver's airbag with the harness to the prepared wheel.

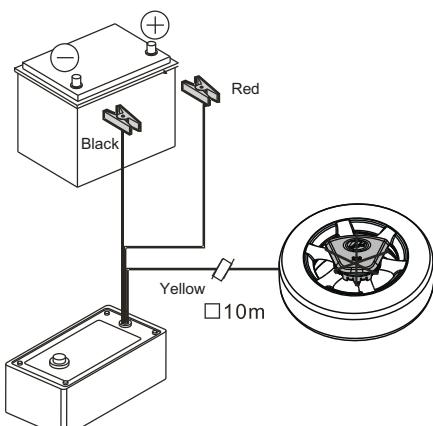
**△Tips:**

**Expansion of driver's airbag can damage wheel, thus discarded wheels should be used.**

**△Warning:**

- Make sue the airbag is bond tightly with harness or equivalent. It is very dangerous if the harness are break when the airbag bursts during firing.
- Make sure to bind the driver's airbag facing up. If the metal side of airbag faces up, it can cut the harness during burst of airbag, which can cause risk of flying airbag. This is very dangerous.

اولین سامانه دیجیتال تعمیر کاران خودرو در ایران



LFX60-SM-09026

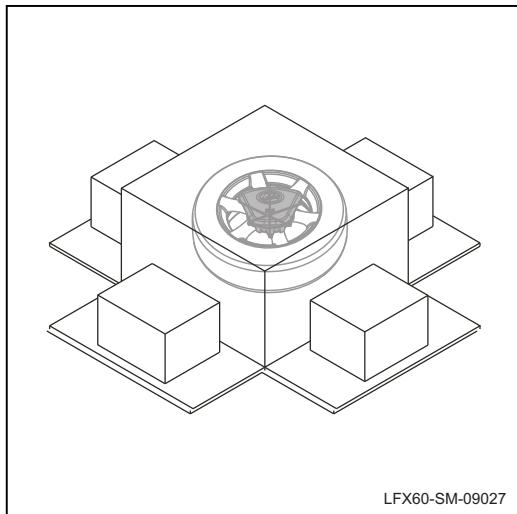
(l). Connect the driver airbag adapter to the yellow connector on the special tools for airbag detonation.

**△Tips:**

**Leave the secondary latch of the cascade lock unengaged to avoid damage to connector and harness of the special tool. Make sure binding harness are loose than that of outside. The cascade lock and loose binding harness prevents excessive shock in burst of airbag, to protect harness of the special tool.**

(m). Move the special tools for airbag detonation away for 10m from the bundled airbag.

## Airbag system



(n). Cover the bundled airbag module with a cardboard box or a used tire.

**Cardboard cover method:**

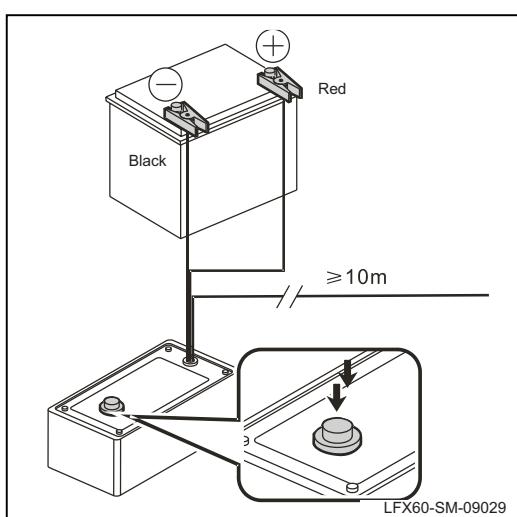
**Cover the airbag module bond to wheel with a cardboard box bigger then wheel, put 190N weight on the box. As shown in the Figure.**



**Tire cover method:**

**Cover the airbag module bond to wheel with at least three discarded wheel (without rim). As shown in the Figure.**

09

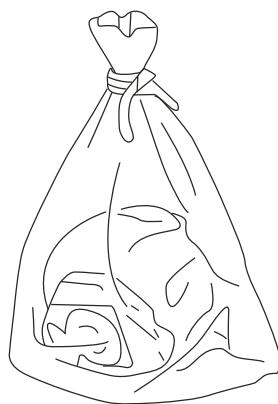


(o). Connect the red and black clamps of the special tools for the airbag detonation to the positive and negative terminals of the backup battery.

(p). Check to ensure that there is no person or animal within 10m distance to the bundled airbag.

(q). Press down the detonation switch to detonate the airbag.

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LFX60-SM-09030

- (r). Remove the driver's airbag module from the steel ring.
- (s). Put the driver's airbag in the plastic bag, tighten the pocket, handle the driver's airbag module as the disposal of the used parts.

**⚠️Warning:**

- The airbag will be hot after fired. Wait for at least 30min before touching.
- Safety gloves and goggle should be worn to handle fired airbag.
- Do not splash the water onto the detonated airbag assembly.
- Clean your hand after operation.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران





## 10 - Bodywork

<b>Fender .....</b>	<b>10-1367</b>
Technical specifications.....	10-1367
Structure and installation location .....	10-1368
Removal and Installation ...	10-1369

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Fender



## Fender

### Technical specifications

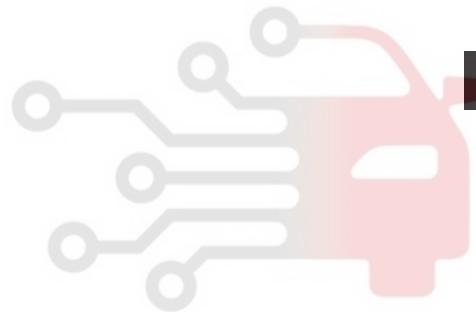
#### Torque Specifications

Name	Torque range	
	Metric(Nm)	British(lb-ft)
Mounting bolts of fender	9	7
Front fender connection bracket and body bolts	9	7

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



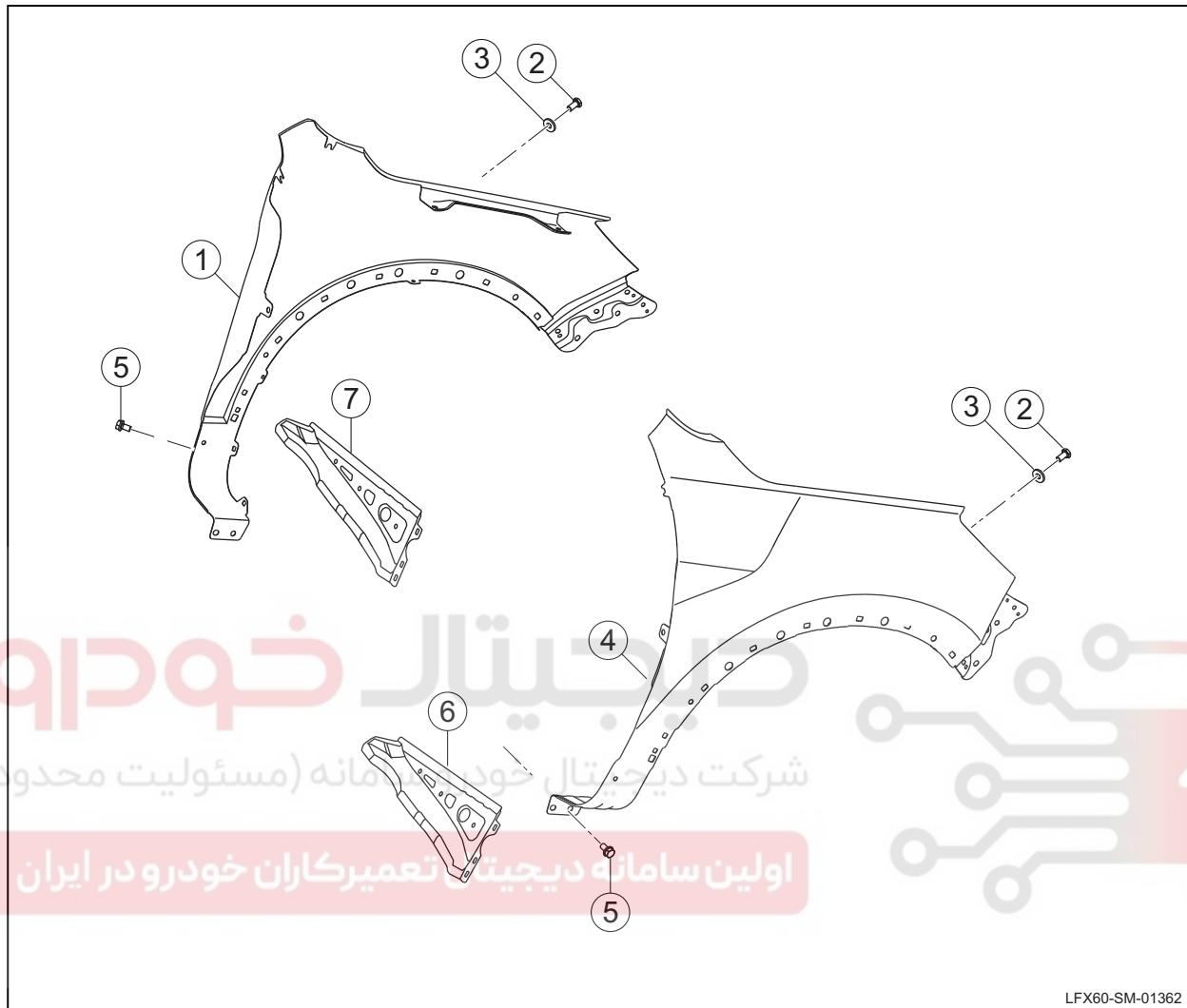
10

10-1367



## Structure and installation location

### Component Location Plan



No.	Part Name
1	Left fender
2	Hexagon head bolts
3	Big washer
4	Right fender

No.	Part Name
5	Hexagon head bolt and taper elastic washer assembly
6	Right front suspension beam outer plate
7	Left front suspension beam outer plate

Fender

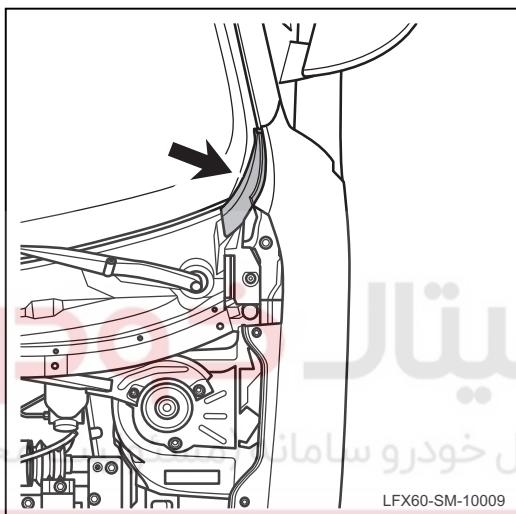
 力帆汽车  
LIFAN AUTO

## Removal and Installation

### Front fender

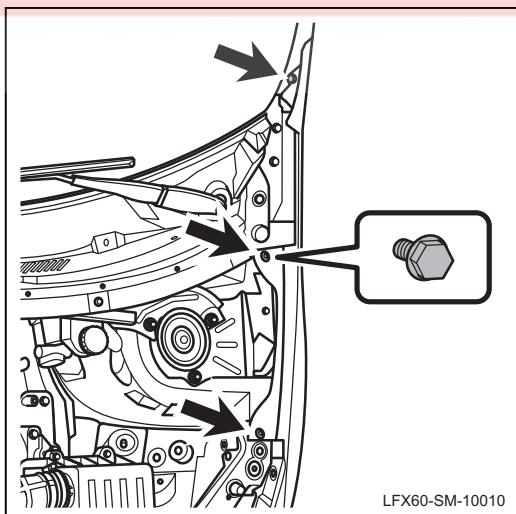
#### Removal

1. Remove the front fender.
  - (a). Disconnect the battery negative connector.
  - (b). Remove the front bumper assembly. **Refer to the replacement of front bumper assembly.**
  - (c). Remove the front combination lamp. **Refer to the replacement of front combination lamp.**
  - (d). Remove the mounting bracket of the front bumper, **refer to:Replacement of mounting bracket of the front bumper.**
  - (e). Remove the front trim panel assembly of the left panel, **refer to:Replacement of the front trim panel assembly of the left panel.**
  - (f). Remove the front wheel cover liner, **refer to:Replacement of front wheel cover liner.**



- (g). Remove the left trim panel assembly of ventilation cover.

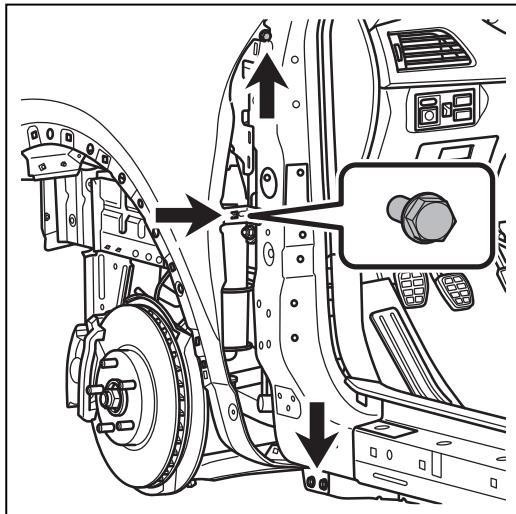
10



- (h). Remove the fixing bolts of the front fender.

شرکت دیجیتال خودرو سامانه تعمیرکاران خودرو در ایران

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



- (i). Remove the fixing bolts of the front fender.
- (J). Take off the front fender.

### Installation

#### 1. Install the front fender.

- (a). The installation sequence is the reverse of the disassembly order.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران





## 10 - Bodywork

Engine cover ..... 10-1373  
Removal and Installation... 10-1373

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Engine cover



## Engine cover

### Removal and Installation

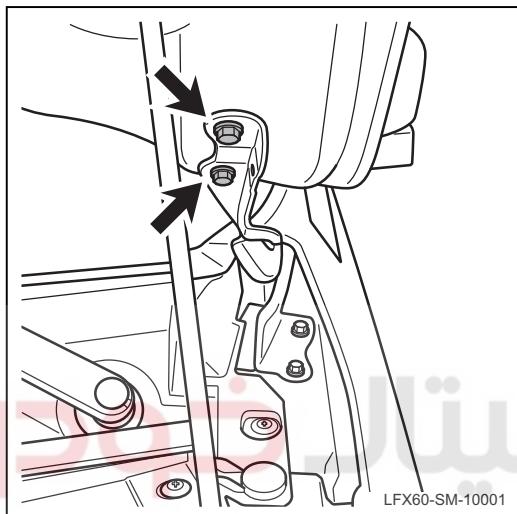
#### Replacement of the hood assembly

##### Removal

**● Note:**

- Because the hood is heavy, two people are required to operate.
- Protective tape or wipes are used during disassembly and installation to prevent damage.

1. Remove the hood assembly.



- (a). Support the engine hood assembly with the appropriate material to prevent it falling.

**△ Warning:**

When removing the hood assembly, if there is no suitable material to support the hood assembly, it may cause injury.

- (b). Remove the engine hood hinge fixing bolt.

**△ Tips:**

Removal methods of hinges on both sides are the same.

- (c). Take off the hood assembly.



10

##### Installation

1. Install the hood.

- (a). The installation sequence is the reverse of the disassembly order.

**● Note:**

Check the rotating parts of hood hinge for poor lubrication. If necessary, apply grease.

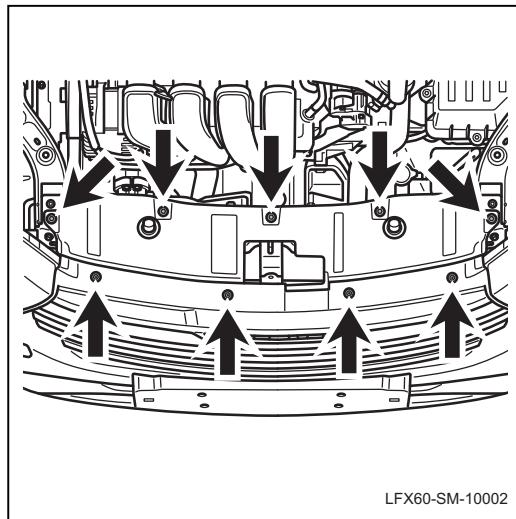
10-1373



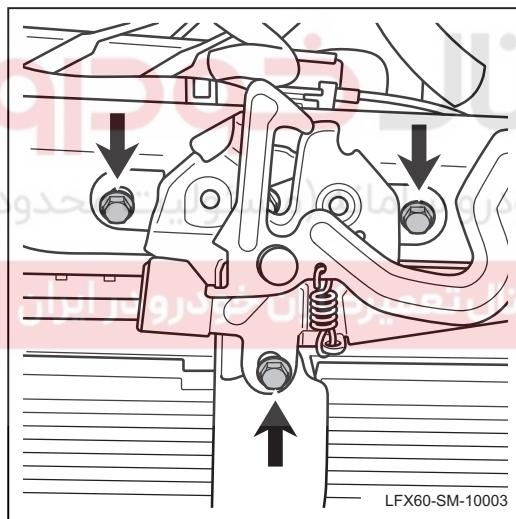
## Replacement of the hood lock

### Removal

#### 1. Remove the hood lock.



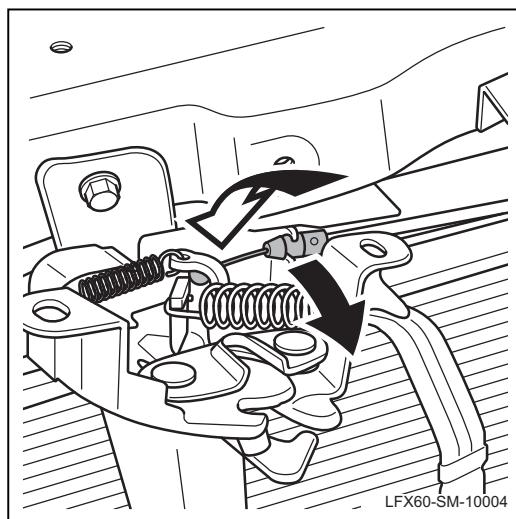
- Open the hood.
- Remove the fixing bolts of the upper trim panel of front bumper.
- Take off the upper trim panel of front bumper.



- Remove the fixing bolts of hood lock.

**Note:**

Before removing, make the assembly mark for the installation location of hood lock.



- Remove the connection between the hood lock cable and the hood lock.
- Take off the hood lock.

Engine cover

**Installation****1. Install the hood lock.**

(a). The installation sequence is the reverse of the disassembly order.

**●Note:**

Check if the hood lock cable is properly engaged with the hood lock.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10

10-1375

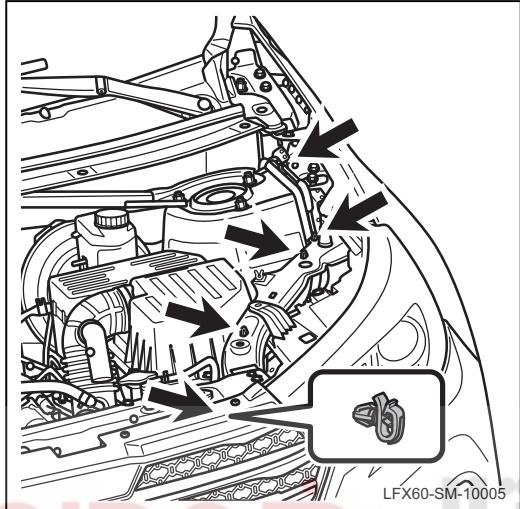


## Replacement of the hood lock cable

### Removal

1. Remove the hood lock cable.
  - (a). Remove the hood lock, refer to: Replacement of hood lock.
  - (b). Remove the left lower panel of dashboard, refer to: Replacement of the left lower panel of dashboard.
  - (c). Remove the hood handle assembly, refer to: Replacement of the hood handle assembly.

- (d). Remove the fixing clip of hood lock cable.
- (e). Take off the hood lock cable.



### Installation

1. Install the hood lock cable.
  - (a). The installation sequence is the reverse of the disassembly order.

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



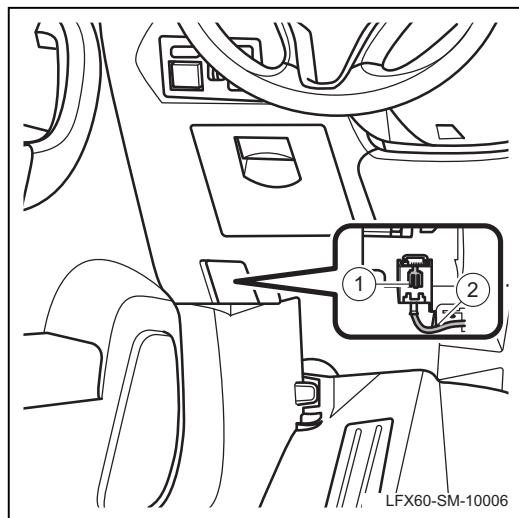
Engine cover



## Replacement of the hood handle assembly

### Removal

#### 1. Remove the hood handle assembly.

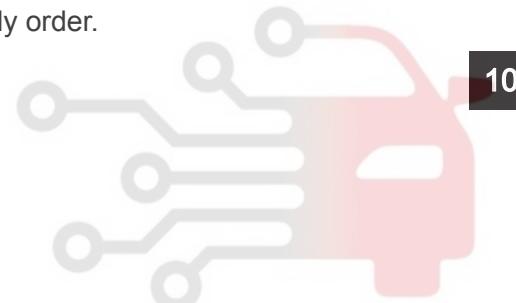


- Press down the fixing clip 1 of hood handle assembly.
- Remove the connection between the hood lock cable and the hood handle assembly.
- Take off the hood handle assembly.

### Installation

#### 1. Install the hood handle assembly.

- The installation sequence is the reverse of the disassembly order.



شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

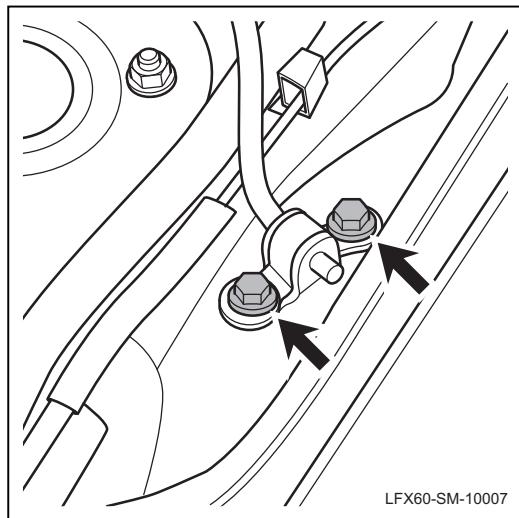
اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



## Replacement of the hood pole

### Removal

#### 1. Remove the hood pole.



- Support the engine hood assembly with the appropriate material to prevent it falling.

**⚠️Warning:**

If there is no suitable material to support the hood assembly, it may cause injury.

- Remove the fixing bolts of hood pole.
- Take off the hood pole.

### Installation

#### 1. Install the hood pole.

- The installation sequence is the reverse of the disassembly order.



شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

Engine cover



## Replacement of the hood hinge

### Removal

#### 1. Remove the hood hinge.

(a). Remove the hood assembly, refer to: Replacement of hood assembly.

(b). Remove the engine hood hinge fixing bolt.

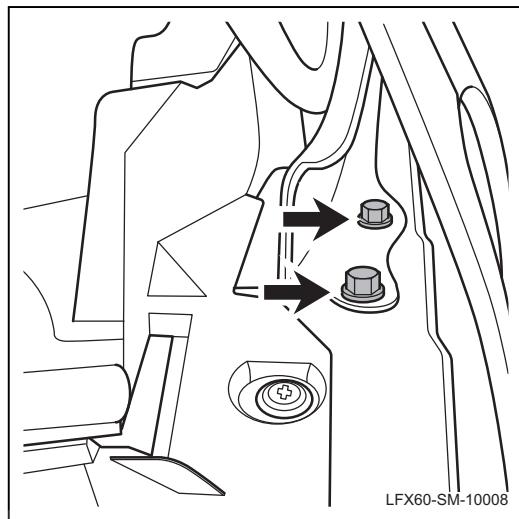
**① Note:**

Before removing, make the assembly mark for the installation location of hood hinge.

(c). Take off the hood hinge.

**① Note:**

Removal methods of hood hinges on both sides are the same.



### Installation

#### 1. Install the hood hinge.

(a). Adjust the mounting position of hood hinge

(b). The installation order is the reverse of the disassembly order.

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران





- Memo -

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران





## 10 - Bodywork

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Car door



## Car door

### Operating Principle

#### System Overview

The door system is mainly composed of window glass, outside door handle, inside door handle, door lock assembly, electric glass lifter assembly, door seal, window groove, door limiter, door hinge, door trim and some accessories. The main function of the door system is to enable access of driver and occupant through the door opening and closing, enable good communication between the door and the outside environment through the door window opening and closing, while the door system can also protect the inner space of the vehicle effectively in the event of side impact occurs, to reduce the damage of the occupants to the maximum extent. In addition, the door system is a closed system, and it can effectively block the dust, noise, water and other substances from into the car, to create a good car environment for the drivers and occupants. The door system is an important part of the car, the removal and installation must follow the following operations to ensure the normal function of the door system.

دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

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10-1383



## Removal and Installation

### Replacement of front door assembly

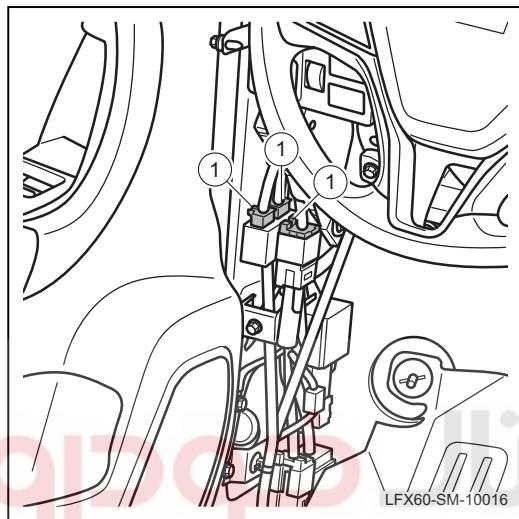
#### Removal

##### 1. Remove the front door assembly.

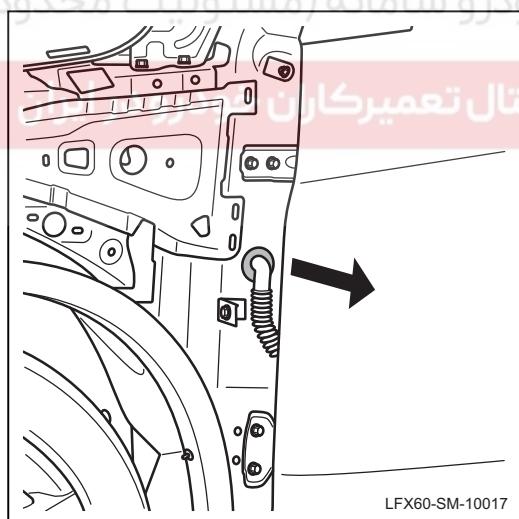
**Note:**

**Because the front door is heavy, two people are required to operate.**

(a). Remove the A pillar lower decorative panel. Refer to the replacement of A pillar lower decorative panel.

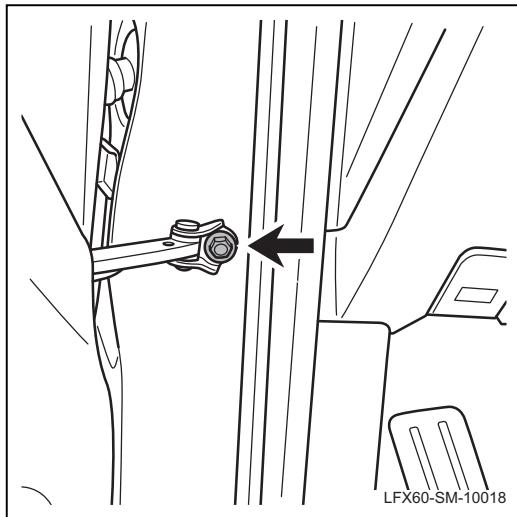


(b). Disconnect the harness plug 1 of front door.



(c). Disengage the seal coat of front door harness.

Car door

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LIFAN AUTO


(d). Remove the fixing bolts of front door stopper.



(e). Remove the fixing bolts of front door hinge.

△Tips:

**The removal and installation of upper and lower hinge are the same.**

(f). Remove front door assembly.



### Installation

#### 1. Install the front door assembly.

(a). The installation sequence is the reverse of the disassembly order.

10-1385



## Replacement of rear door assembly

### Removal

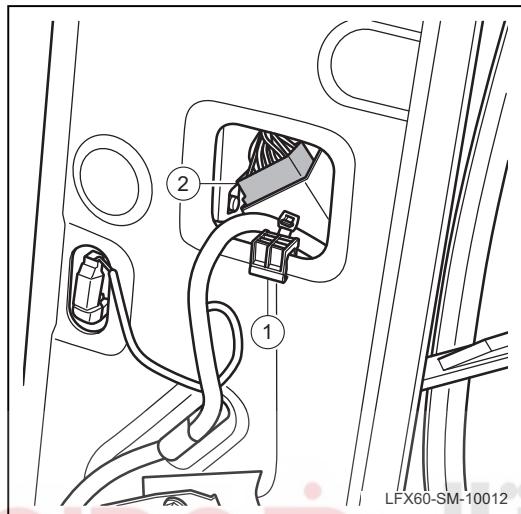
#### 1. Remove the rear door assembly.

##### • Note:

Because the rear door is heavy, two people are required to operate.

(a). Remove the B pillar lower decorative panel. Refer to the replacement of B pillar lower decorative panel.

- (b). Disconnect the harness clip 1 of the rear door.
- (c). Disconnect the harness plug 1 of rear door.

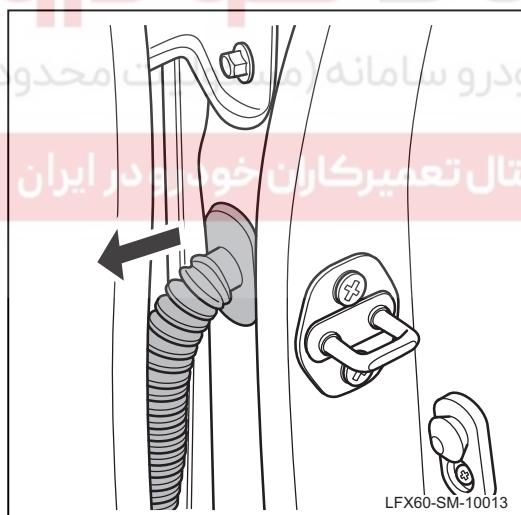


LFX60-SM-10012

- (d). Disengage the seal coat of rear door harness.

شرکت دیجیتال خودرو سامانه (محدوده)

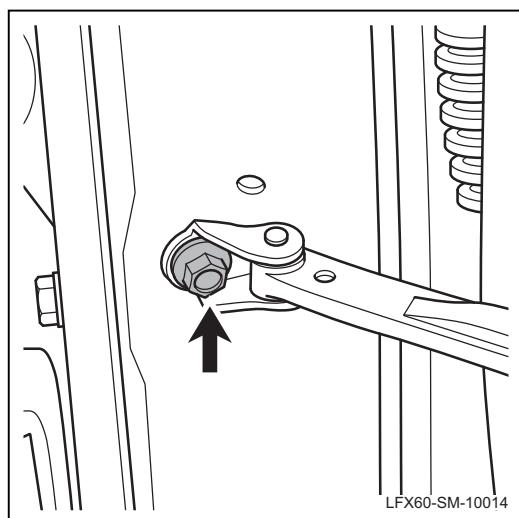
اولین سامانه دیجیتال تعمیرکارن خودرو در ایران



LFX60-SM-10013



Car door

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LIFAN AUTO


(e). Remove the fixing bolts of rear door stopper.



(f). Remove the fixing bolts of rear door hinge.

△Tips:

**The removal and installation of upper and lower hinge are the same.**

(g). Remove rear door assembly.

10



### Installation

#### 1. Install the rear door assembly.

(a). The installation sequence is the reverse of the disassembly order.

10-1387



## Replacement of back door assembly

### Removal

#### 1. Remove the back door assembly.

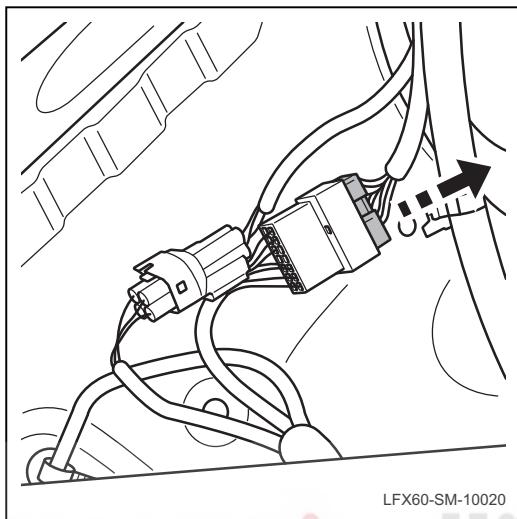
##### ① Note:

Because the back door is heavy, two people are required to operate.

(a). Remove the C pillar upper trim board. Refer to the replacement of C pillar upper trim board.

(b). Disconnect the harness plug of the rear door.

(c). Remove the seal of back door.



LFX60-SM-10020

(d). Remove the fixing clip of ceiling.

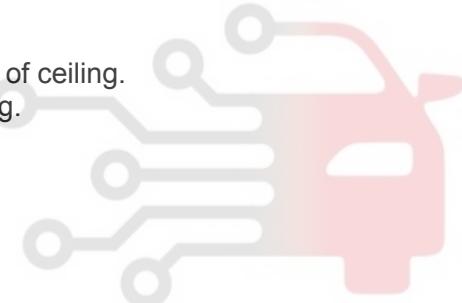
(e). Open part of the ceiling.

##### ① Note:

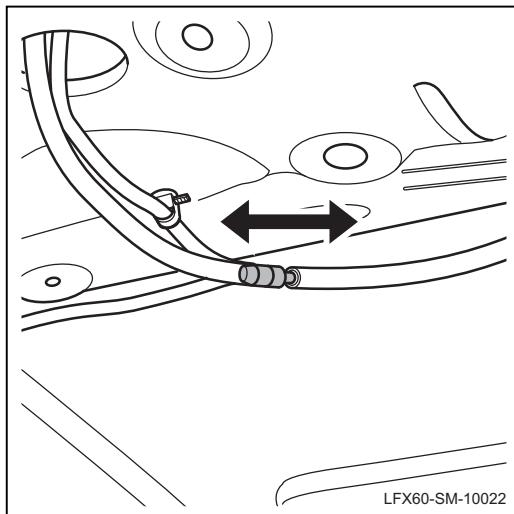
Do not bend the roof.



LFX60-SM-10021



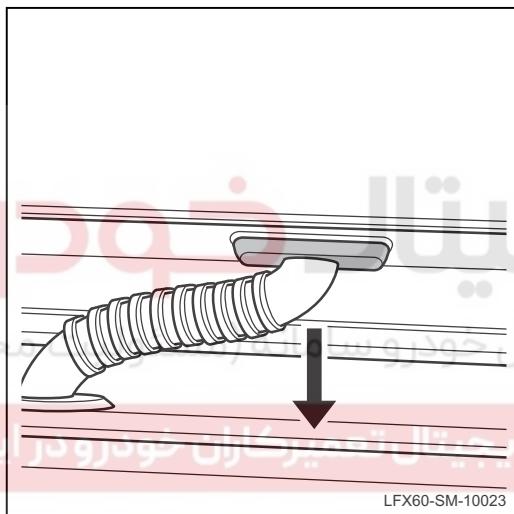
Car door

 力帆汽车  
LIFAN AUTO


(f). Remove the rear wiper pipe.

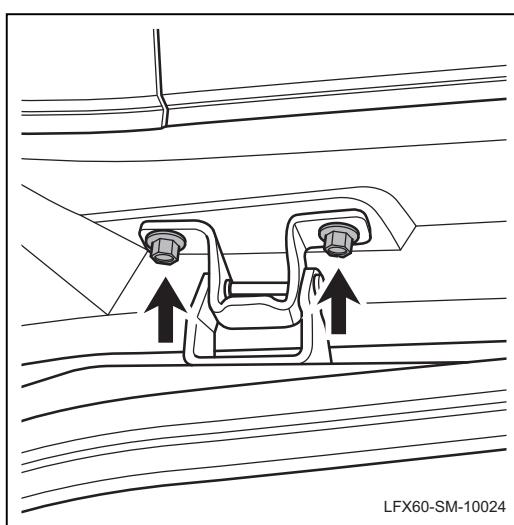
⚠ Note:

To avoid leakage of the window wash liquid, the water pipe should be sealed at both ends



(g). Disengage the seal coat of back door harness.

10



(h). Remove the fixing bolts of back door hinge.

⚠ Tips:

The removal and installation of left and right hinge are the same.

(i). Remove rear door assembly.

## Installation

### 1. Install the back door assembly.

(a). The installation sequence is the reverse of the disassembly order.

10-1389



- Memo -

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران





## 10 - Bodywork

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Glass



## Glass

### Operating Principle

#### System Overview

The whole vehicle glass includes front windshield, back door glass, rear corner window glass and front door glass, and rear door glass. The whole vehicle glass and white body, body opening and closing parts, other doors and windows, etc. together form a closed driving space, while playing a part in transmission of light, which can provide driver a good sense of vision. The front windshield and the back door glass and the side window are sealed by the sealant on the frame of the vehicle body. The cured sealant has certain hardness and elasticity, and is waterproofing. If you need to replace the front windshield and the back door glass and side window glass, you must first remove the original glass, and remove the residual sealant on the window frame.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10

10-1393



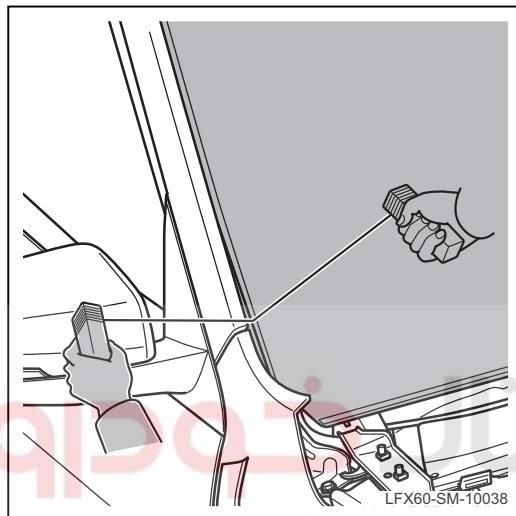
## Removal and Installation

### Replacement of front windshield

#### Removal

##### 1. Remove the front windshield

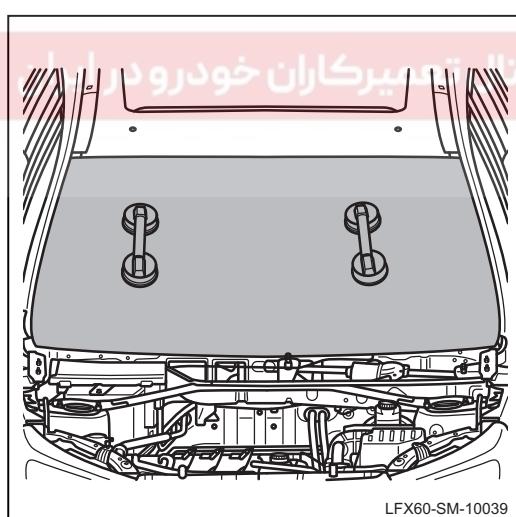
- Remove the front wiper arm, refer to: Replacement of the front wiper arm.
- Remove the ventilation cover assembly, refer to: Replacement of the ventilation cover assembly.
- Remove the rearview mirror, refer to: the replacement of the rearview mirror.
- Remove the A-pillar trim panel, refer to: Replacement of A-pillar trim panel.



- Use a thin steel wire to cut glass adhesive around the front windshield glass.

**① Note:**

Wrap a block on each end of the thin steel wire, and operate with two men cooperated to facilitate the removal. When operating, place a plastic gasket on the dashboard to protect the dashboard from being scratched.



- Remove the front windshield using a glass suction cup.

**① Note:**

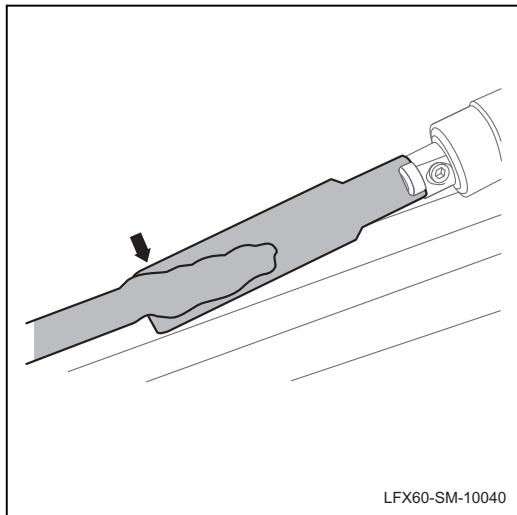
This step requires the assistance from others. Do not scratch the finish while taking down the glass.

Glass



## Installation

### 1. Install the front windshield glass



(a). Use the blade to remove the glass adhesive on the front windshield glass and the glass window frame.

**①Note:**

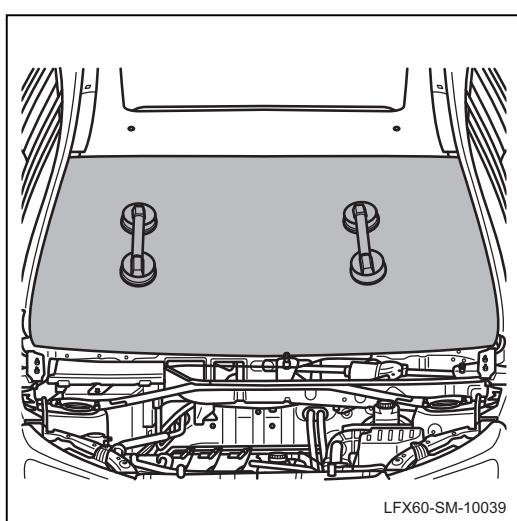
**Make sure that the surface to be bonded is clean and free from foreign matter. Use a hot air gun to dry the door glass and the glass adhesive seam (25 °C), and dry out all the moisture.**



(b). Use a mix / spray gun to apply a thin layer of PU adhesive to the edge of the front windshield glass.

**①Note:**

**Discard the first 100mm PU bonding agent since the service life of this section will be short. To avoid water leak, cover any bonding fracture point with 20mm bonding agent.**



(c). With the help of another technician, take up the glass with the suction cup and press it in position.

**①Note:**

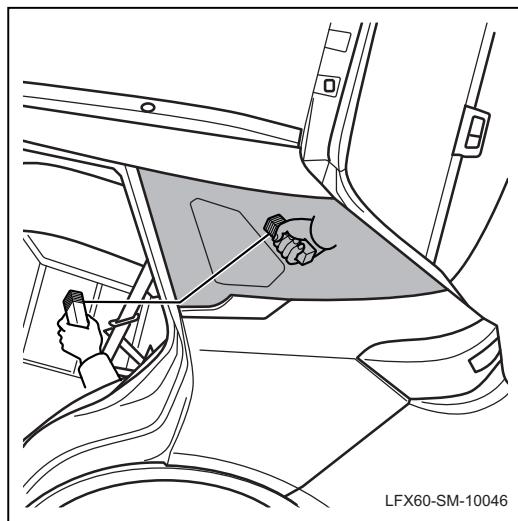
**Use the appropriate tape to secure the windshield in the correct position until the PU adhesive is cured.**

(d). Install the A-pillar trim panel, **refer to:Replacement of A-pillar trim panel.**  
 (e). Install the rearview mirror, **refer to:the replacement of the rearview mirror.**  
 (f). Install the ventilation cover assembly, **refer to:Replacement of the ventilation cover assembly.**  
 (g). Install the front wiper arm, **refer to:Replacement of the front wiper arm.**

## Replacement of side window glass

### Removal

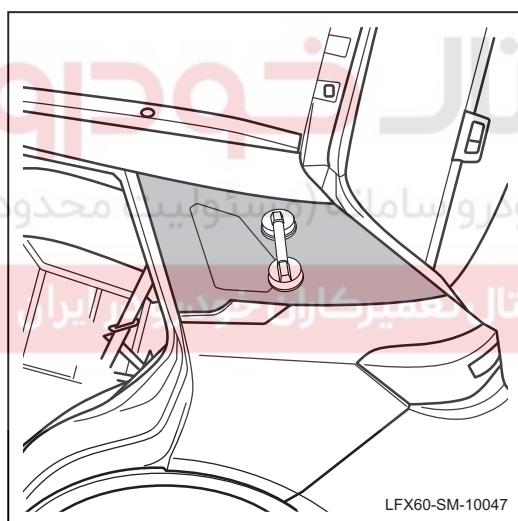
#### 1. Remove the side window glass.



(a). Use a thin steel wire to cut glass adhesive around the side glass window.

**● Note:**

**Tie the wood block to both ends of the fine wire and have two persons to do this.**



(b). Remove the side window glass using a glass suction cup.

**● Note:**

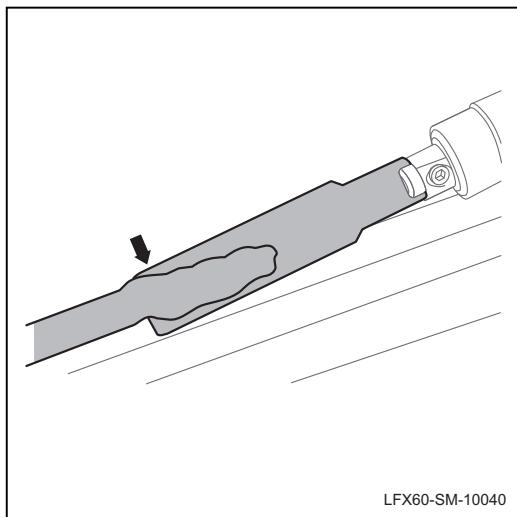
**This step requires the assistance from others. Do not scratch the finish while taking down the glass.**

Glass



## Installation

### 1. Install the side window glass.



(a). Use the blade to remove the glass adhesive on the side window glass and the glass window frame.

**①Note:**

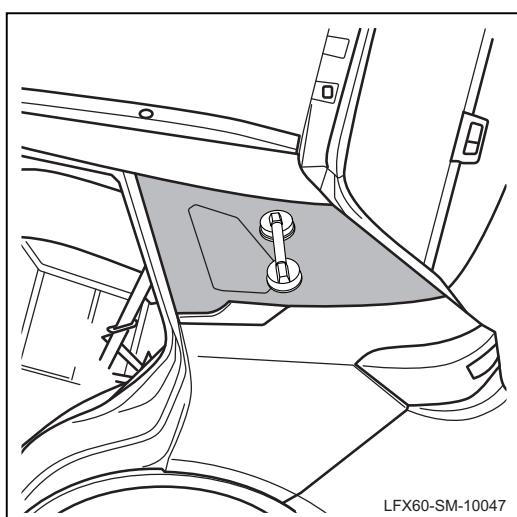
Ensure the bonding face is clean without foreign matter, heat the hatch glass edge and glass bonding seam with the hot air gun to reach 25°C and dry off any moisture.



(b). Use a mix / spray gun to apply a thin layer of PU adhesive to the edge of the side window glass.

**①Note:**

Discard the first 100mm PU bonding agent since the service life of this section will be short. To avoid water leak, cover any bonding fracture point with 20mm bonding agent.



(c). With the help of another technician, take up the glass with the suction cup and press it in position.

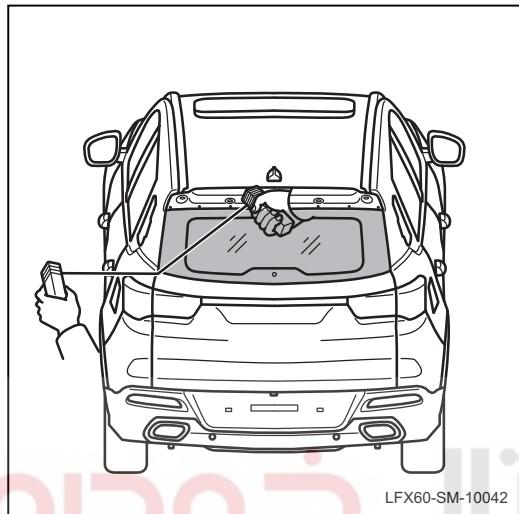
**①Note:**

Fix the hatch glass to the correct position with the appropriate tape until the PU bonding agent cures.

## Replacement of back door glass

### Removal

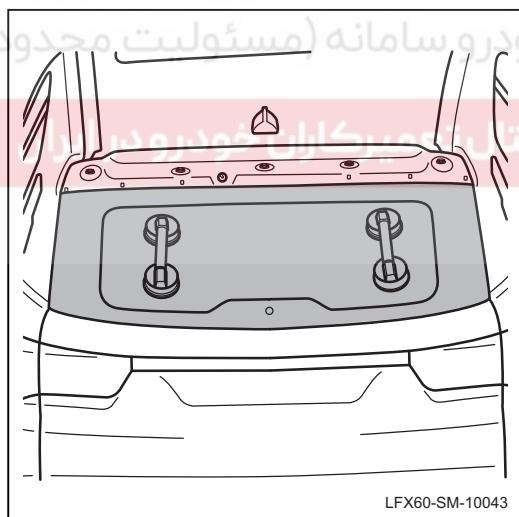
1. Remove the back door glass.
  - (a). Remove the back door trim panel, refer to: Replacement of the back door trim panel.
  - (b). Remove the high brake light, refer to: Replacement of high brake light.
  - (c). Remove the rear wiper motor and connecting rod assembly, refer to: Replacement of rear wiper motor and connecting rod assembly.
  - (d). Disconnect the harness connector of back door glass defroster.



- (e). Use a thin steel wire to cut glass adhesive around the back door glass.

**Note:**

Tie the wood block to both ends of the fine wire and have two persons to do this.



- (f). Remove the back door glass using a glass suction cup.

**Note:**

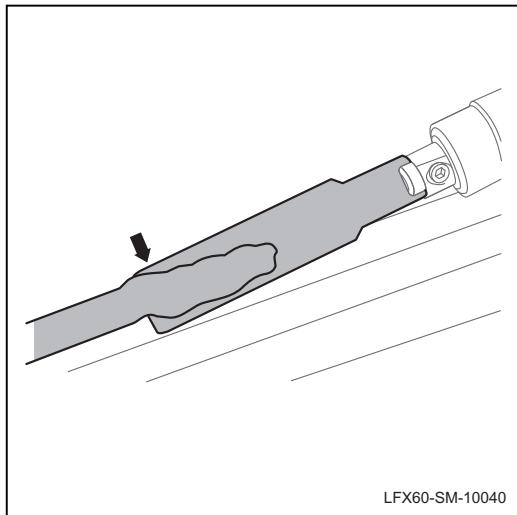
This step requires the assistance from others. Do not scratch the finish while taking down the glass.

Glass



## Installation

### 1. Install the back door glass.



(a). Use the blade to remove the glass adhesive on the back door glass and the glass window frame.

**①Note:**

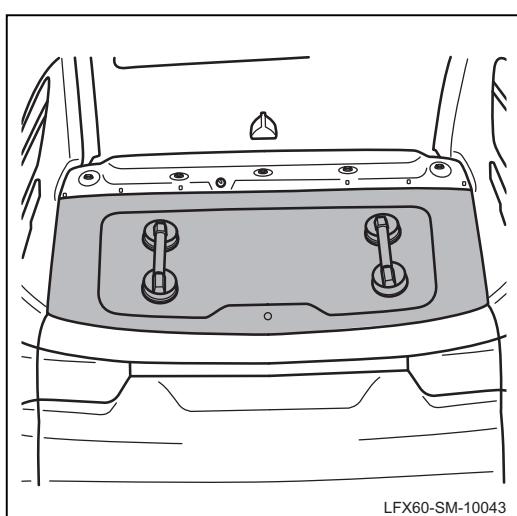
Ensure the bonding face is clean without foreign matter, heat the hatch glass edge and glass bonding seam with the hot air gun to reach 25°C and dry off any moisture.



(b). Use a mix / spray gun to apply a thin layer of PU adhesive to the edge of the back door glass.

**①Note:**

Discard the first 100mm PU bonding agent since the service life of this section will be short. To avoid water leak, cover any bonding fracture point with 20mm bonding agent.



(c). With the help of another technician, take up the glass with the suction cup and press it in position.

**①Note:**

Fix the hatch glass to the correct position with the appropriate tape until the PU bonding agent cures.

(d). Connect the harness connector of back door glass defroster.  
 (e). Install the rear wiper motor and connecting rod assembly, refer to: **Replacement of rear wiper motor and connecting rod assembly**.  
 (f). Install the high brake light, refer to: **Replacement of high brake light**.  
 (g). Install the back door trim panel, refer to: **Replacement of the back door trim panel**.



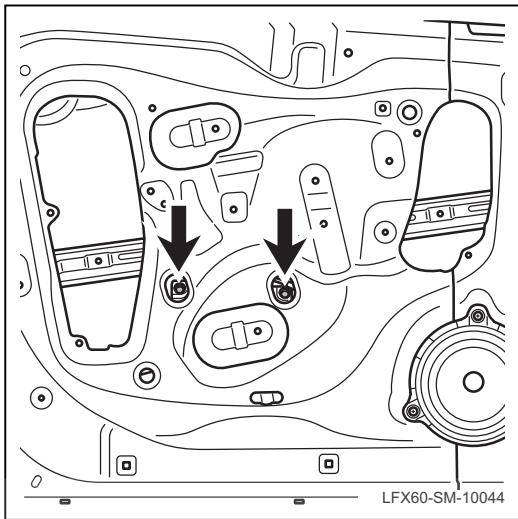
## Replacement of front door glass

### Removal

#### 1. Remove the front door glass.

(a). Remove the front door interior trim board. **Refer to the replacement of front door interior trim board.**

- (b). Remove the front door water-proof membrane.
- (c). Operate the front door glass lifter switch, and adjust the front door glass lifter position.
- (d). Remove the fixing bolts of front door glass.
- (e). Take off the front door glass.



### Installation

#### 1. Install the front door glass.

(a). The installation sequence is the reverse of the disassembly order.

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Glass

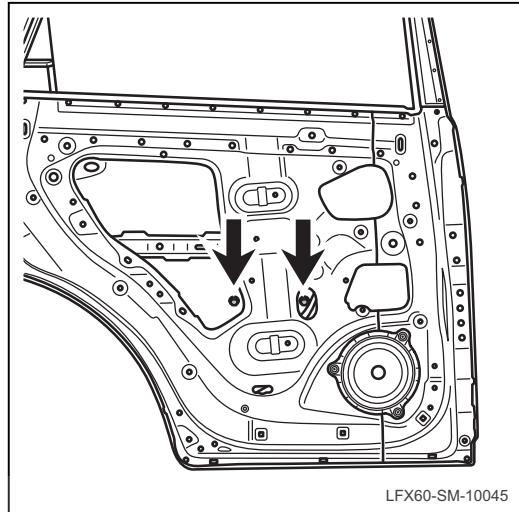


## Replacement of rear door glass

### Removal

#### 1. Remove the rear door glass.

(a). Remove the rear door interior trim board. **Refer to the replacement of rear door interior trim board.**



(b). Remove the rear door water-proof membrane.  
 (c). Operate the rear door glass lifter switch, and adjust the rear door glass lifter position.  
 (d). Remove the fixing bolts of rear door glass.  
 (e). Take off the rear door glass.

### Installation

#### 1. Install the rear door glass.

(a). The installation sequence is the reverse of the disassembly order.

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- Memo -

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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## 10 - Bodywork

Door handles, door locks and doors ..... 10-1405  
Removal and Installation... 10-1405

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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10

# دیجیتال خودرو

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## Door handles, door locks and doors

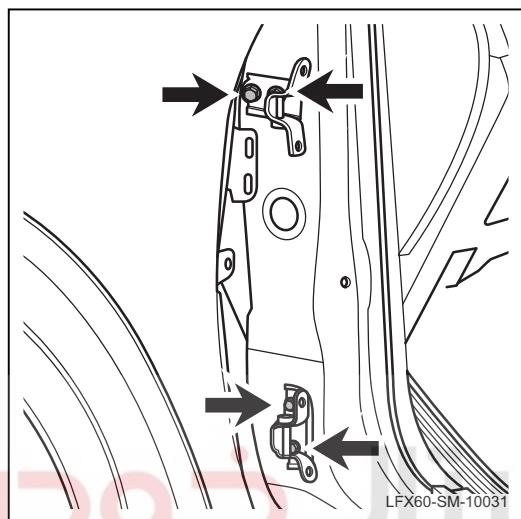
### Removal and Installation

#### Replacement of front door hinge

##### Removal

###### 1. Remove the front door hinge.

(a). Remove the front door assembly, refer to: Replacement of front door assembly.



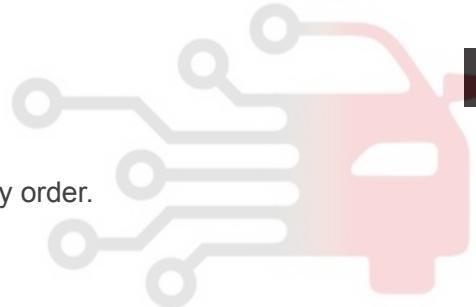
- (b). Remove the fixing bolts of front door hinge.
- (c). Take off the front door hinge.

##### Installation

###### 1. Install the front door hinge.

(a). The installation sequence is the reverse of the disassembly order.

10



اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

10-1405



## Replacement of rear door hinge

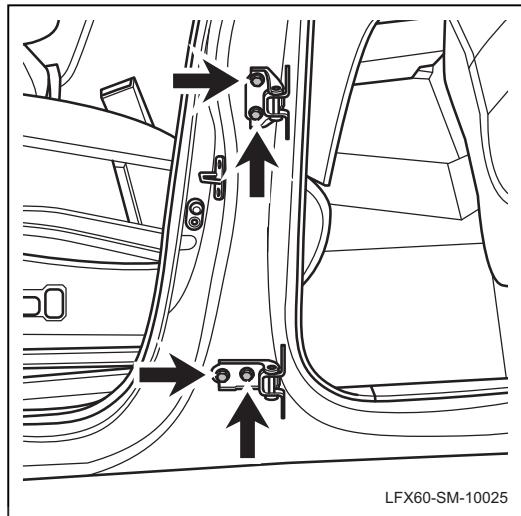
### Removal

#### 1. Remove the rear door hinge.

(a). Remove the rear door assembly, refer to: **Replacement of rear door assembly.**

(b). Remove the fixing bolts of rear door hinge.

(c). Take off the rear door hinge.



### Installation

#### 1. Install the rear door hinge.

(a). The installation sequence is the reverse of the disassembly order.



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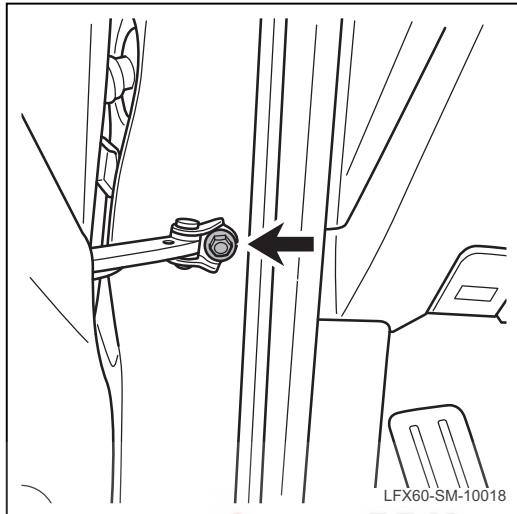
## Replacement of the door stopper

### Removal

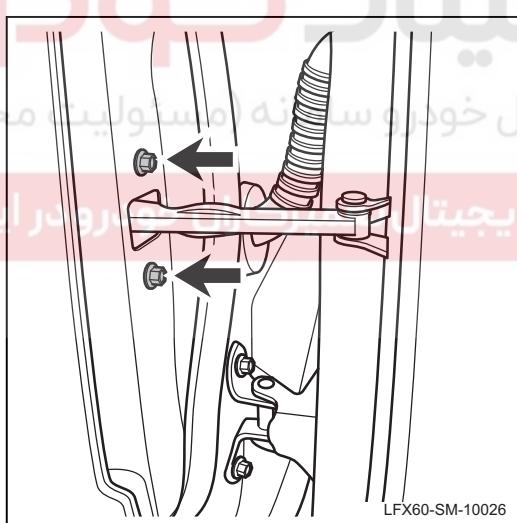
#### 1. Remove the door stopper.

- (a). Remove the front door interior trim board. **Refer to the replacement of front door interior trim board.**
- (b). Remove the waterproof film of the front door.

- (c). Remove the fixing bolts of door stopper.



- (d). Remove the fixing bolts of door stopper.
- (e). Take off the door stopper.



### Installation

#### 1. Install the door stopper.

- (a). The installation sequence is the reverse of the disassembly order.



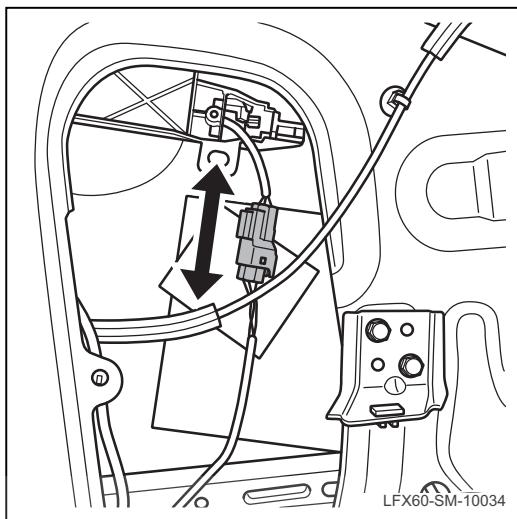
## Replacement of the outside handle assembly of the front door

### Removal

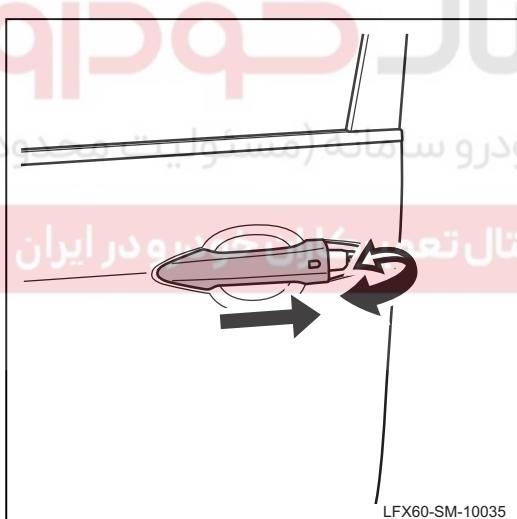
#### 1. Remove the outside handle assembly of the front door

- (a). Remove the front door trim panel, refer to: Replacement of the front door trim panel.
- (b). Remove the front door lock barrel. Refer to the replacement of front door lock barrel.

- (c). Disconnect the antenna plug of the left front door handle.



- (d). Remove the outside handle assembly of the front door



### Installation

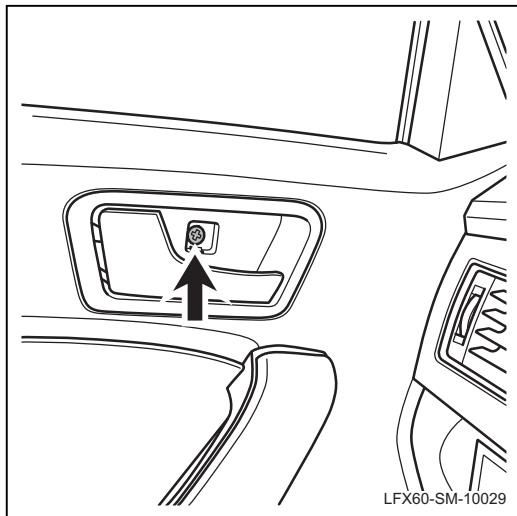
#### 1. Install the outside handle assembly of the front door

- (a). The installation sequence is the reverse of the disassembly order.

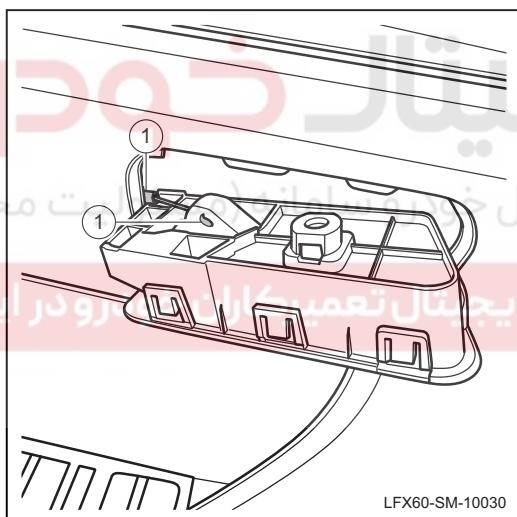
## Replacement of the inside handle assembly of the front door

### Removal

#### 1. Remove the inside handle assembly of the front door



- (a). Remove the trim cover of fixing bolts of inside handle assembly of the front door
- (b). Remove the fixing bolts of inside handle assembly of the front door



- (c). Remove the inside handle assembly of the front door
- (d). Disconnect the inside handle cable 1 of the front door
- (e). Take off the inside handle assembly of the front door

### Installation

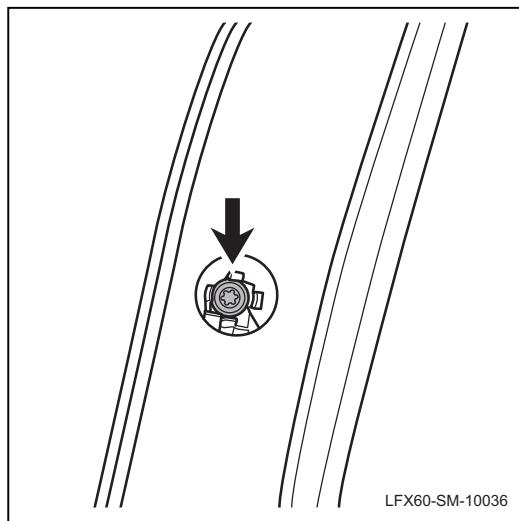
#### 1. Install the inside handle assembly of the front door

- (a). The installation sequence is the reverse of the disassembly order.

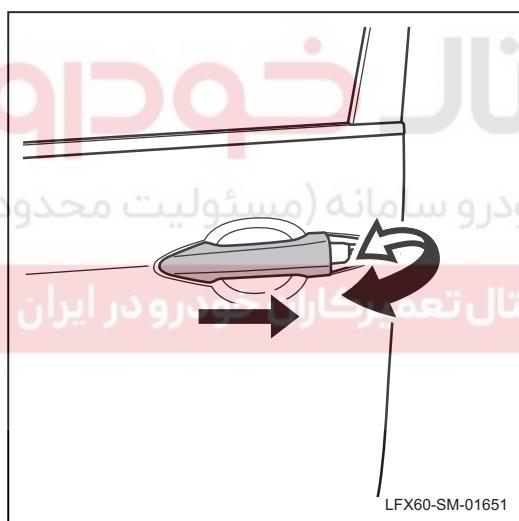
## Replacement of the outside handle assembly of the rear door

### Removal

#### 1. Remove the outside handle assembly of the rear door



- Remove the fixing bolt trim cover of the outside handle.
- Remove the fixing bolt of the outside handle.
- Take off the outside handle trim cover.



- Remove the outside handle assembly of the rear door



### Installation

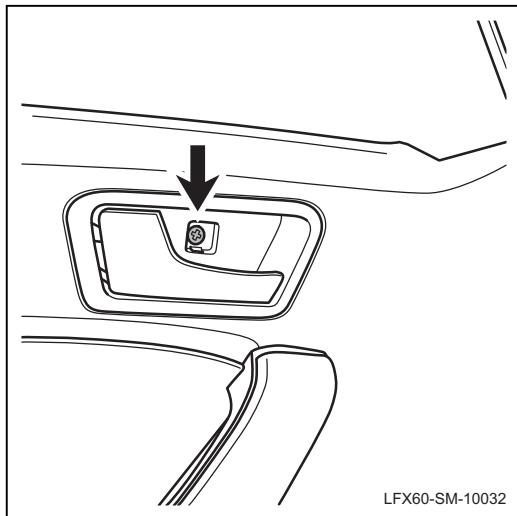
#### 1. Install the outside handle assembly of the rear door

- The installation sequence is the reverse of the disassembly order.

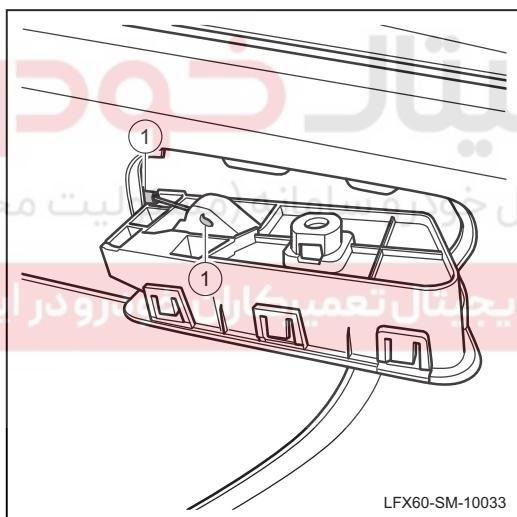
## Replacement of the inside handle assembly of the rear door

### Removal

#### 1. Remove the inside handle assembly of the rear door



- (a). Remove the fixing bolt trim cover
- (b). of the rear door inside handle. Remove the fixing bolts of the rear door inside handle.



- (c). Remove the inside handle assembly of the rear door
- (d). Disconnect the inside handle cable 1 of the rear door
- (e). Take off the inside handle assembly of the rear door

### Installation

#### 1. Install the inside handle assembly of the rear door

- (a). The installation sequence is the reverse of the disassembly order.



## Replacement of back door hinge

### Removal

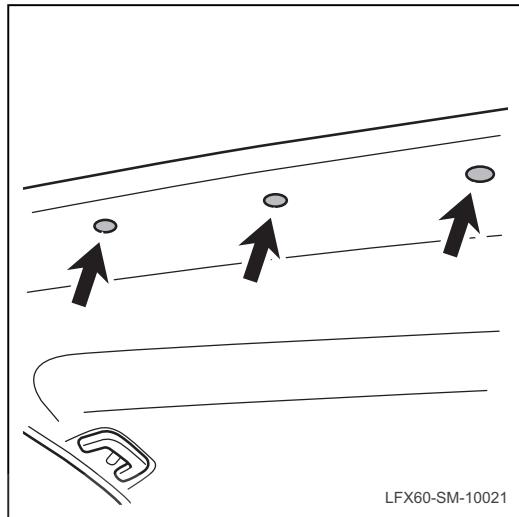
#### 1. Remove the back door hinge.

- (a). Remove the C-pillar trim panel, refer to: Replacement of C-pillar trim panel.
- (b). Remove the back door assembly, refer to: Replacement of back door assembly.

- (c). Remove the fixing clip of ceiling.
- (d). Open part of the ceiling.

**⚠ Note:**

**Do not bend the roof.**



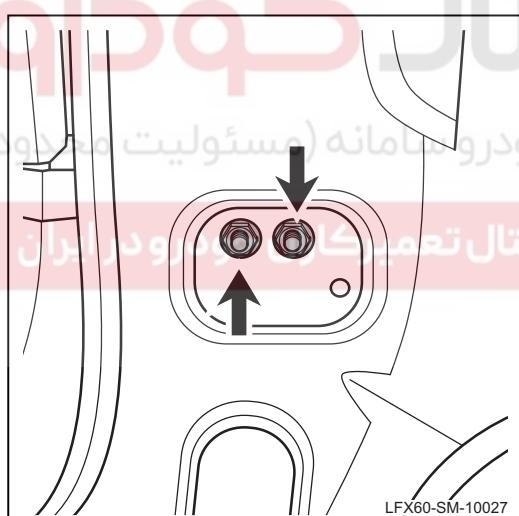
LFX60-SM-10021

- (e). Remove the fixing nut of back door hinge.

**⚠ Tips:**

**The removal and installation of left and right hinge are the same.**

- (f). Take off the back door hinge.



LFX60-SM-10027

### Installation

#### 1. Install the back door hinge.

- (a). The installation sequence is the reverse of the disassembly order.

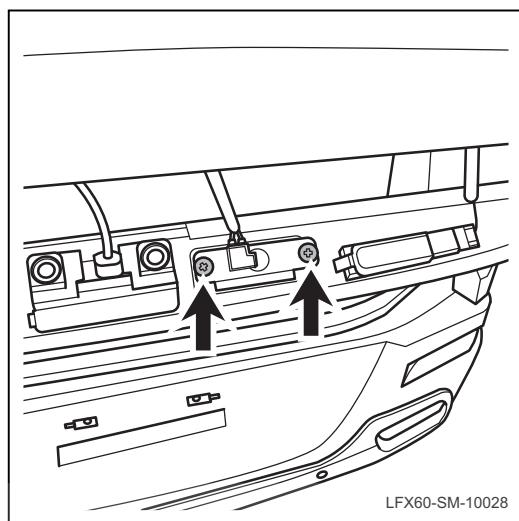
## Replacement of outside open switch of back door

### Removal

#### 1. Remove the outside open switch of back door.

(a). Removal of the trim panel components of the rear license plate lights, refer to:the replacement of the trim panel components of the rear license plate lights

- (b). Remove the fixing screws of outside open switch of back door.
- (c). Take off the outside open switch of back door.



### Installation

#### 1. Install the outside open switch of back door.

(a). The installation sequence is the reverse of the disassembly order.

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# دیجیتال خودرو

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## 10 - Bodywork

Filler cap ..... 10-1417  
Removal and Installation... 10-1417

دیجیتال خودرو

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# دیجیتال خودرو

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Filler cap

 力帆汽车  
LIFAN AUTO

## Filler cap

### Removal and Installation

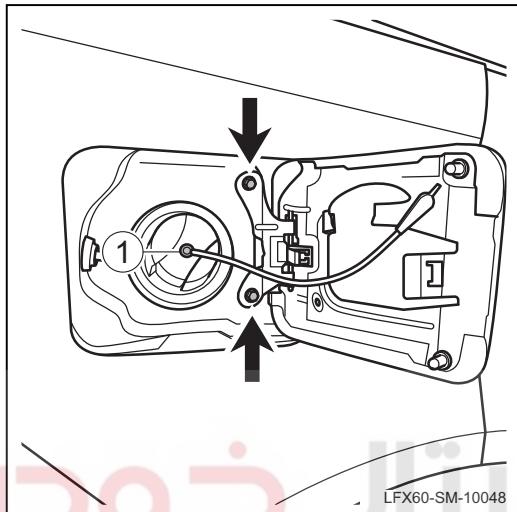
#### Replacement of the fuel filler cover

##### Removal

###### 1. Remove the filler cover.

(a). Open the filler cover.

(b). Remove the fixing bolts of the fuel filler cover.  
 (c). Disengage the limiting rope 1 of fuel filler.  
 (d). Take off the filler cover.



##### Installation

###### 1. Install the filler cover.

(a). The installation sequence is the reverse of the disassembly order.

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اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10-1417



- Memo -

# دیجیتال خودرو

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## 10 - Bodywork

Shelf curtains ..... 10-1421  
Removal and Installation... 10-1421

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



10

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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Shelf curtains



## Shelf curtains

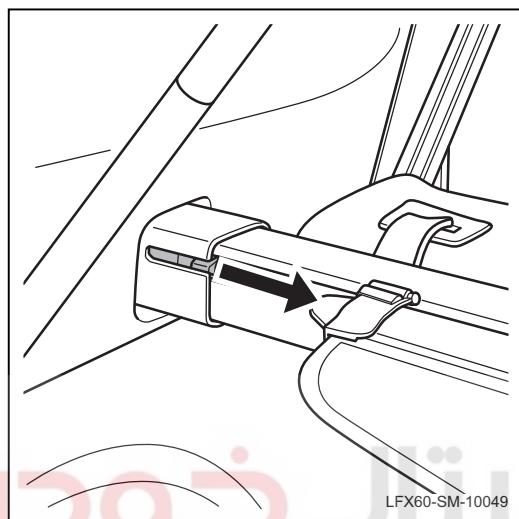
### Removal and Installation

#### Replacement of the rear rack curtain assembly

##### Removal

1. Remove the rear rack curtain assembly.

(a). Open hatchback.



(b). Disassemble and take off the rear rack curtain.

△Tips:

Removal methods on both sides are the same.

##### Installation

1. Install the rear rack curtain assembly.

(a). The installation sequence is the reverse of the disassembly order.

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



- Memo -

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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## 11 - Interior trims/exterior trims

<b>Dashboard and console .....</b>	<b>11-1425</b>
Technical specifications.....	11-1425
Precautions .....	11-1426
Structure and installation location .....	11-1427
Removal and installation ...	11-1429

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Dashboard and console



 力帆汽车  
LIFAN AUTO

## Dashboard and console

### Technical specifications

#### Torque Specifications

Name	Torque range	
	Metric(Nm)	British(lb-ft)
The pipe beam is connected to the side panel and floor	25	18
The mounting bracket of console is connected to the floor	25	18
The console is connected to the mounting bracket	7	5

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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11

11-1425



## Precautions

### Precautions

1. Cover the bodywork with the cloth or gasket while removing and installing various parts to avoid scuffing.
2. Ensure to cover the component with the rag or ethene tape when removing (separating) the component with the screwdriver or similar tool.
3. Replace the deformed and damaged clips.
4. If the part cannot be reused, it must be replaced.
5. Ensure to tighten the bolt and nut to the required torque.
6. After the installation, check whether all the parts work normally.
7. Do not use the sharp tools to remove the dashboard and console, use tool wrapped with a cloth to disassemble.
8. If you want to disconnect the plug between the steps, first disconnect the negative connector of battery.
9. The apron cannot be removed forcibly, be sure to remove all fixed bolts.

دیجیتال خودرو

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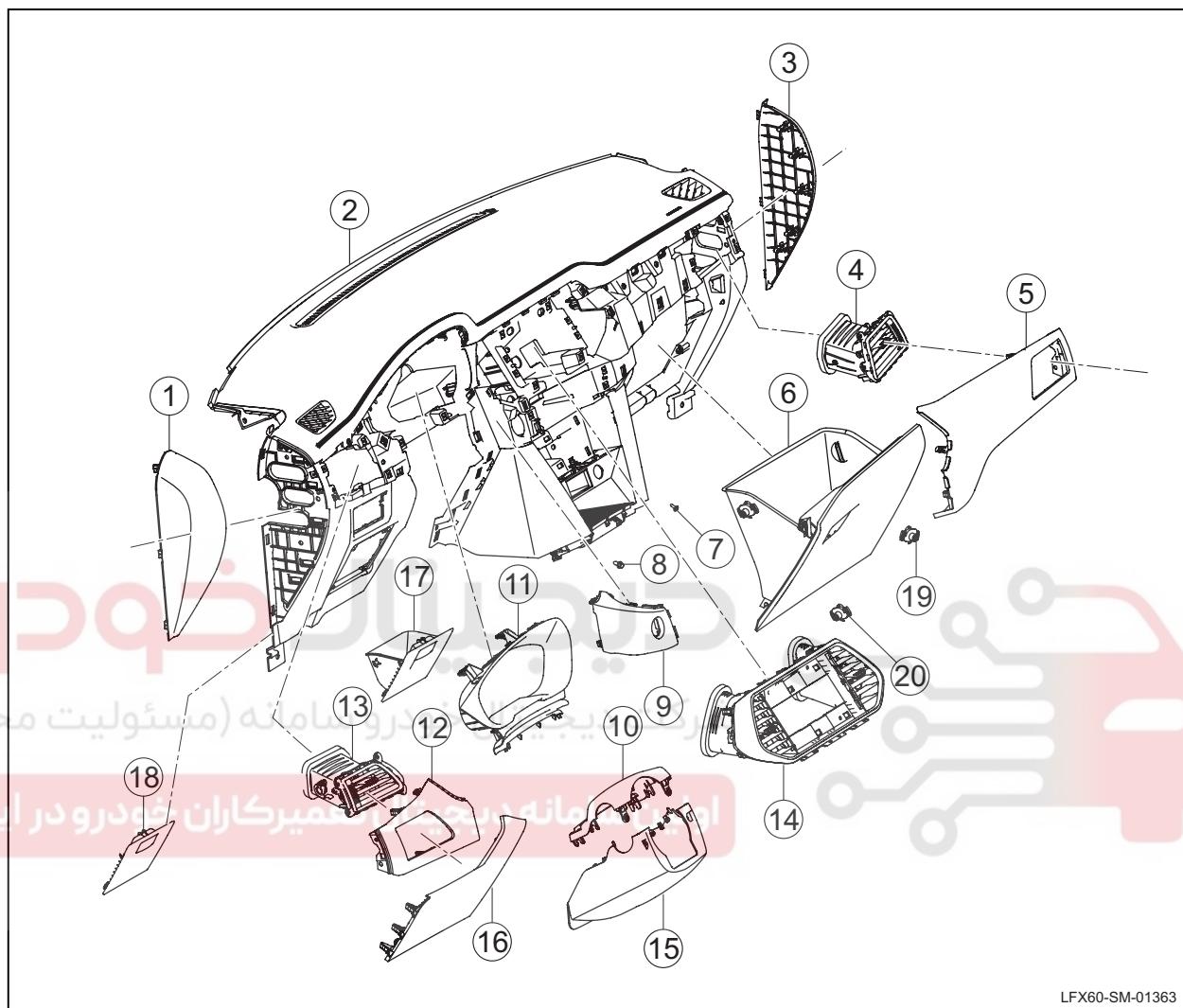
Dashboard and console



## Structure and installation location

### Part exploded view

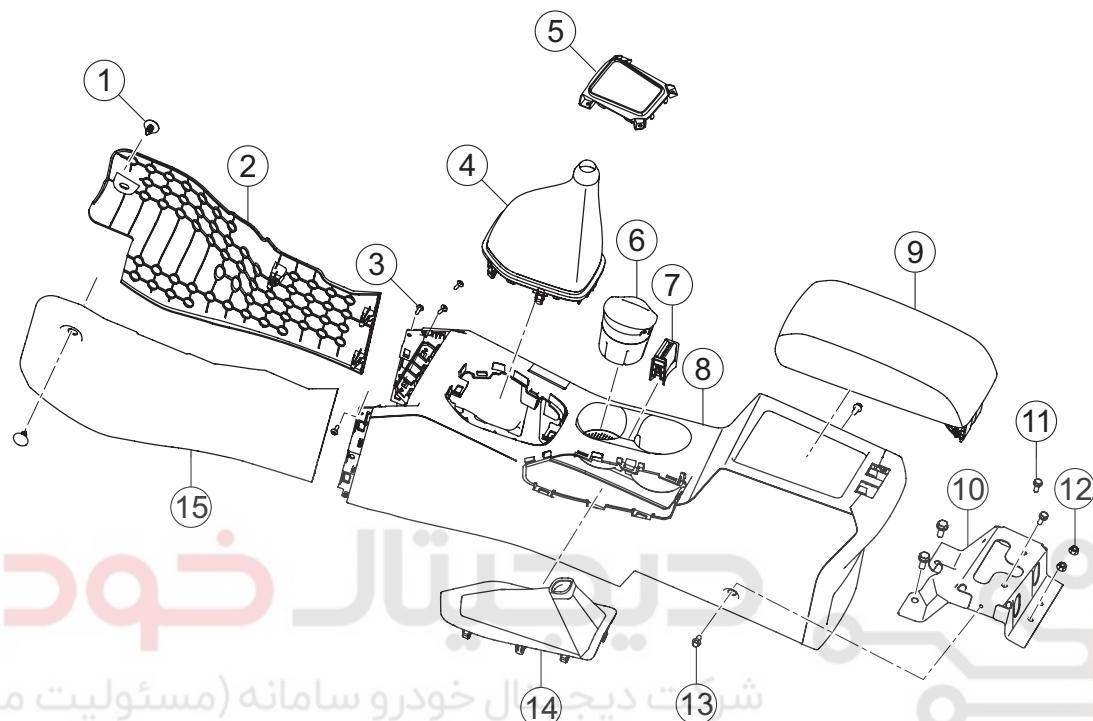
#### Instrument Panel



No.	Part Name
1	Left dashboard end cover assembly
2	Dashboard body assembly
3	Right dashboard end cover assembly
4	Right dashboard outlet assembly
5	Dashboard right trim panel assembly
6	Dashboard glove box assembly
7	Cross recessed pan-head self-tapping screws and flat washer assemblies
8	Hexagon flange tapping screw
9	Button start switch panel assembly of dashboard
10	Steering column upper shroud assembly

No.	Part Name
11	Combination instrument components
12	Dashboard left trim panel assembly
13	Dashboard left outlet assembly
14	Dashboard middle outlet assembly
15	Steering column lower shroud assembly
16	Dashboard Lower left panel assembly
17	Dashboard bill box assembly
18	GLONASS loudspeaker cover
19	Right stopper of dashboard storage box
20	Left stopper of dashboard storage box

## Console



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LFX60-SM-01364

No.	Part Name
1	Plastic clamp
2	Right front board assembly of console
3	Cross recessed large half-round head self-tapping screw
4	Hex flange nut
5	Hex flange nut
6	Moving ashtray assembly
7	Holding mechanism assembly of console cup holder
8	Console assembly
15	Left front board assembly of console

No.	Part Name
9	Central console armrest assembly
10	Mounting bracket assembly of console
11	Hexagon head bolt and taper elastic washer assembly
12	Hex flange nut M6
13	Hexagon head bolt and taper elastic washer assembly
14	Handbrake mounting plate assembly
15	Left front board assembly of console

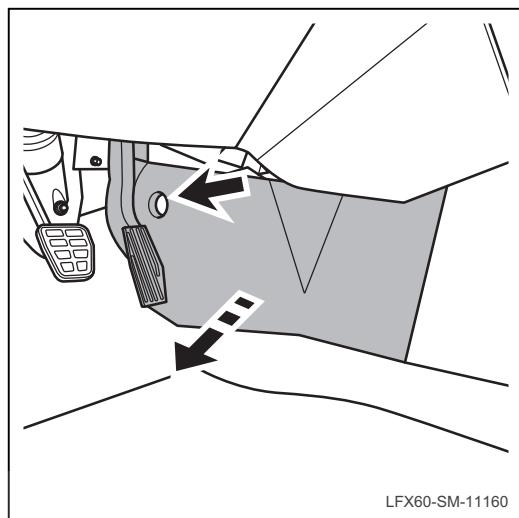
11-1428

## Removal and installation

### Replacement of the console assembly

#### Removal

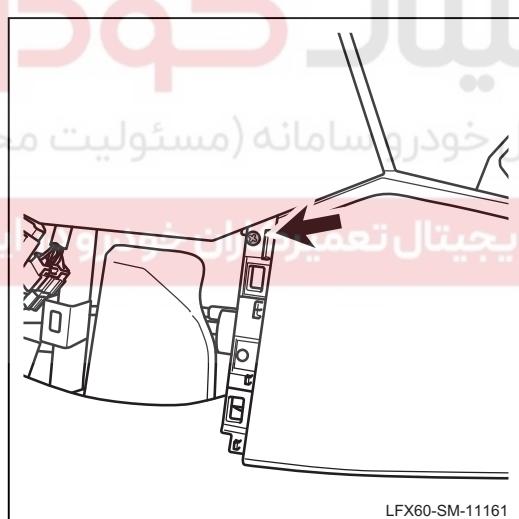
##### 1. Remove the console assembly.



(a). Remove the left and right front board of console.

**①Note:**

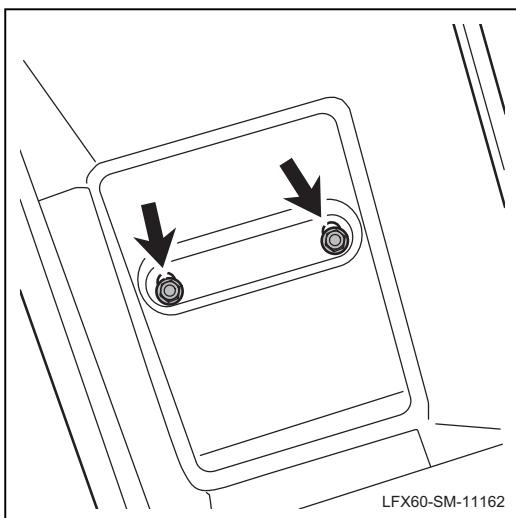
- Please force on the board clip, directly pull the console board by hand.
- Removal methods on both sides are similar.



(b). Remove the left and right side fixing screws of the console.

**①Note:**

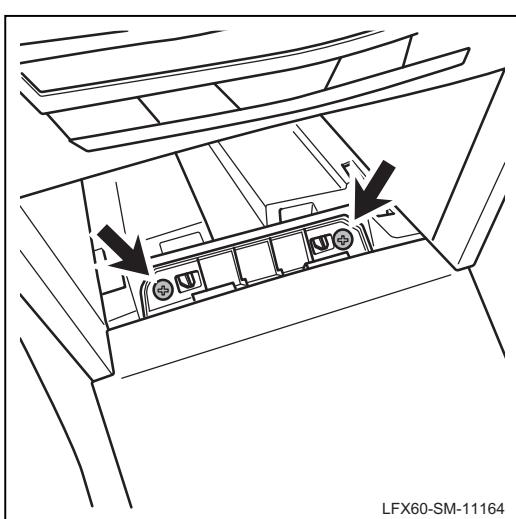
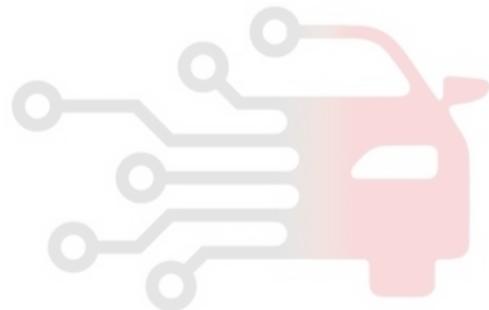
Removal methods on both sides are similar.



- (c). Open the console armrest assembly and take off the bottom pad of the console storage box.
- (d). Remove the fixing bolts in the console armrest box.



- (e). Remove the front panel of console.

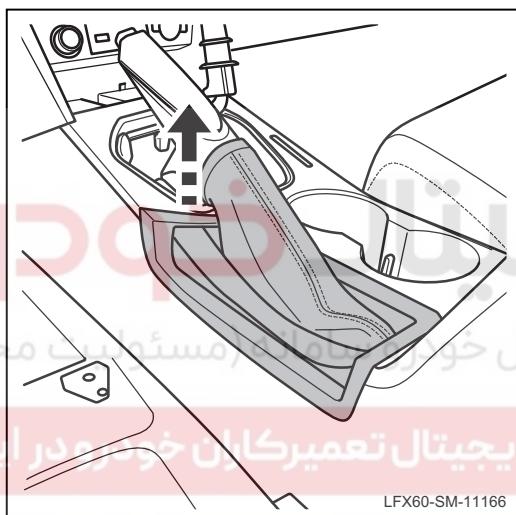


- (f). Remove the front fixing screw of console.

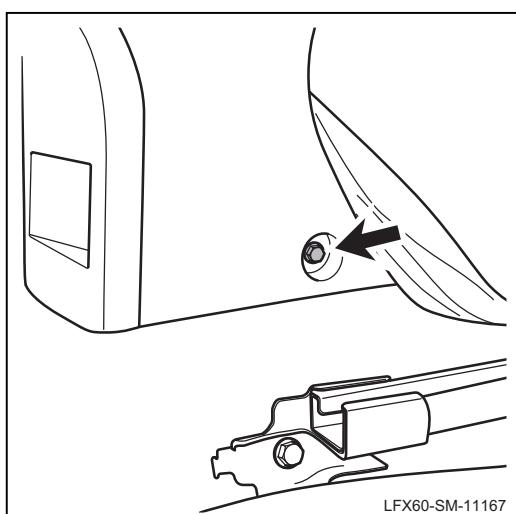
Dashboard and console

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(g). Removing the fixing sleeve assembly of shifter panel leather sheath.



(h). Remove the leather sheath and panel assembly of parking brake handle.



(i). Move the seat forward and remove the left and right fixing screws on the rear of the console.  
(j). Take off the console assembly.

### Installation

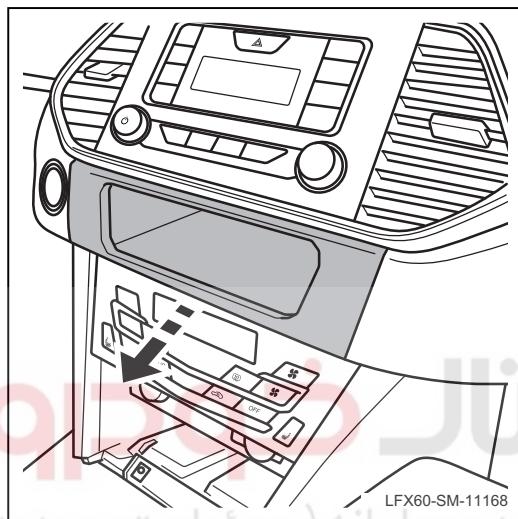
#### 1. Install the console assembly.

(a). The installation sequence is the reverse of the disassembly order.

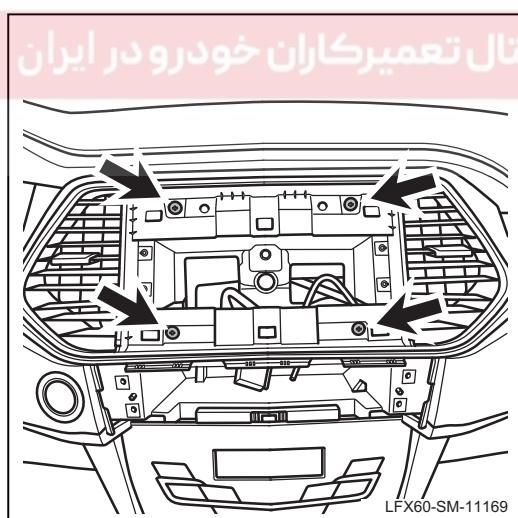
## Replacement of dashboard assembly

### Removal

1. Remove the fascia console assembly.
  - (a). Disconnect the battery negative connector.
  - (b). Remove the A pillar upper trim board. **Refer to the replacement of A pillar upper trim board.**
  - (c). Remove the A pillar lower decorative panel. **Refer to the replacement of A pillar lower decorative panel.**
  - (d). Remove the console, **refer to:Replacement of console.**
  - (e). Remove the upper and lower cover of steering column, **refer to:Replacement of the upper and lower cover of steering column.**

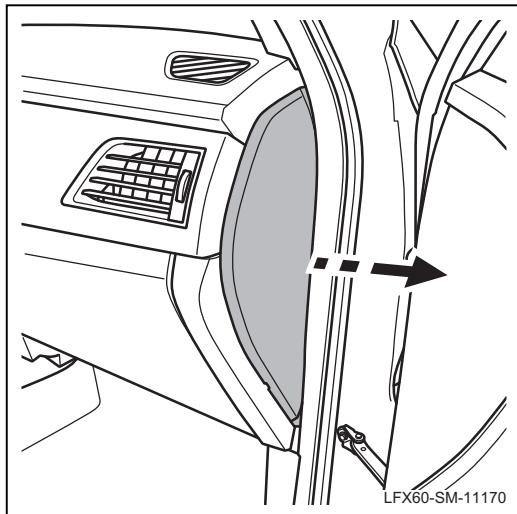


- (f). Remove the dashboard glasses box.
- (g). Remove the radio unit (low configuration), **refer to:Replacement of the radio unit.**
- (h). Remove the radio / MP5 player display (high configuration), **refer to:Replacement of radio / MP5 player display.**

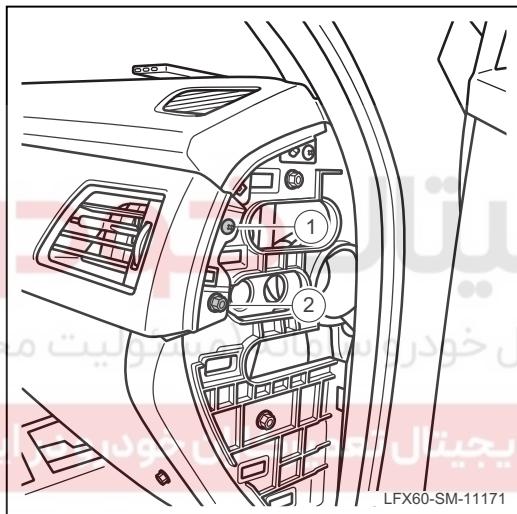


- (i). Disassemble the fixing screw grating trim panel of the air conditioner outlet on dashboard and remove the grating trim panel of the air conditioner outlet.

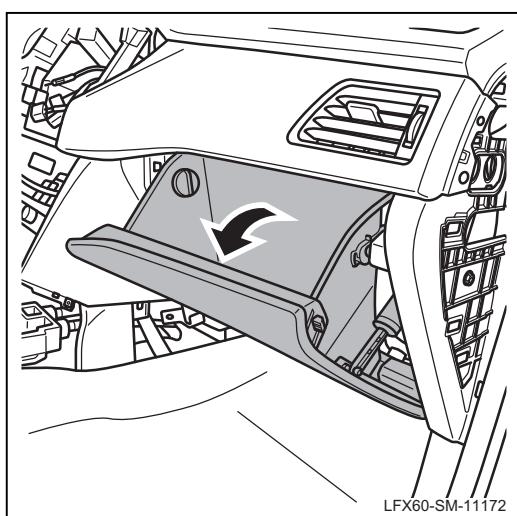
## Dashboard and console



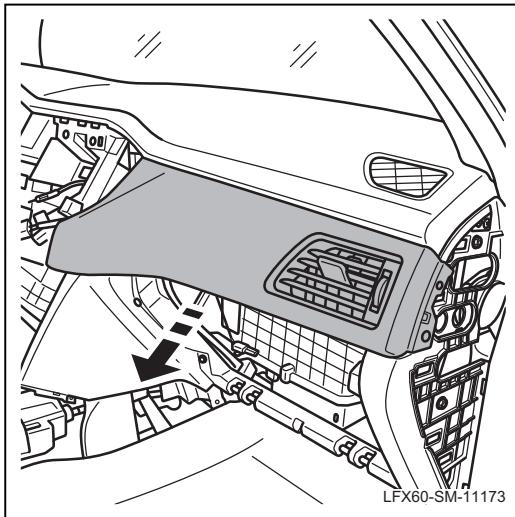
(j). Use the appropriate tool to remove the right cover of the dashboard.



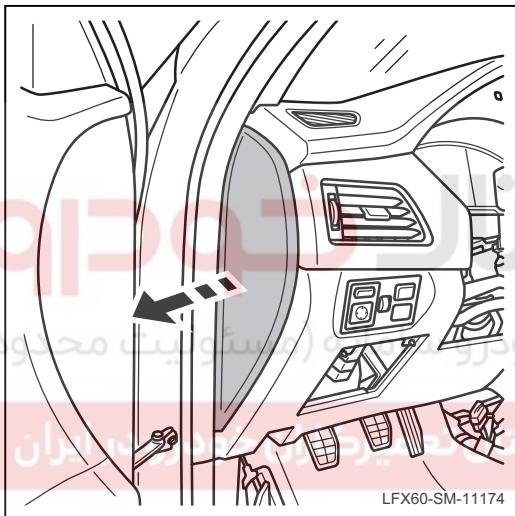
(k). Remove the fixing bolts 2 and fixing screws 1 of the right trim panel of dashboard .



(l). Remove the dashboard glove box.



(m). Remove the right trim panel of the dashboard.

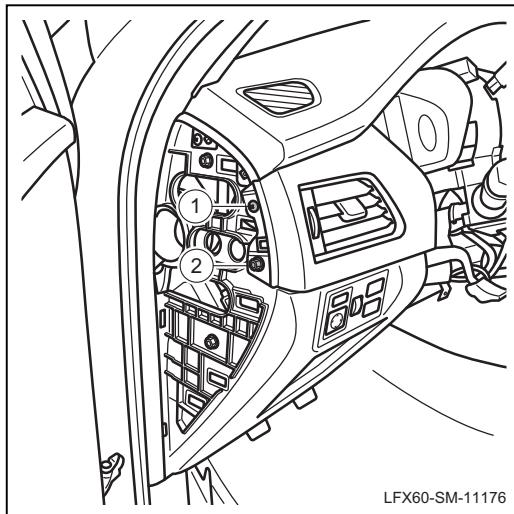


- (n). Remove the dashboard lower panel assembly
- (o). Remove the driver airbag, **refer to:Replacement of the driver airbag**.
- (p). Remove the steering wheel, **refer to:Replacement of multi-function steering wheel**.
- (q). Remove the clock spring, **refer to:Replacement of clock spring**.
- (r). Remove the combination switch, **refer to:Replacement of combination switch**.
- (s). Remove the instrument cluster, **refer to:Replacement of instrument cluster**.

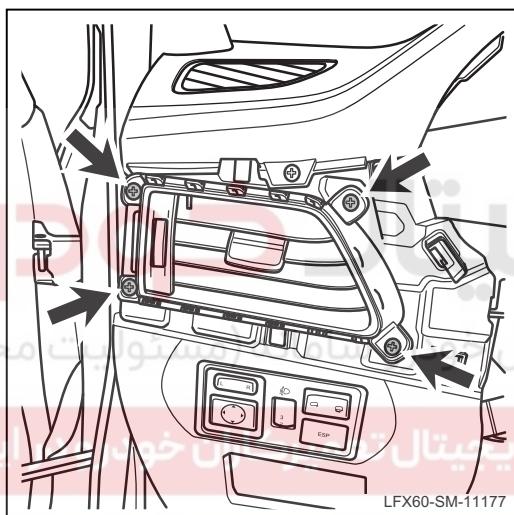


- (t). Remove the dashboard lower left panel assembly
- (u). Disconnect the harness plug of diagnostic connector and remove the dashboard left lower panel.

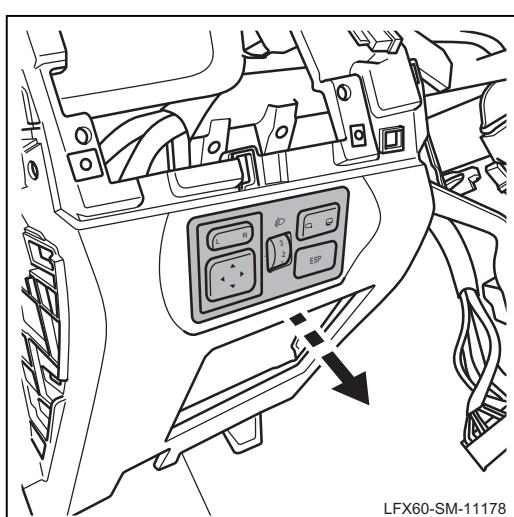
## Dashboard and console



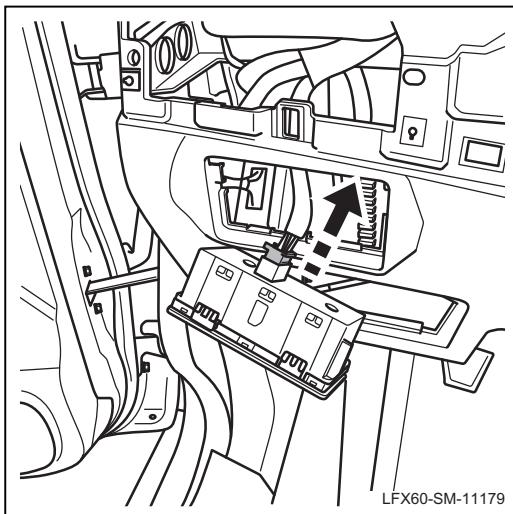
(v). Remove the fixing bolts 2 and screws 1 of grating trim panel of the air conditioner outlet on the left side of dashboard.



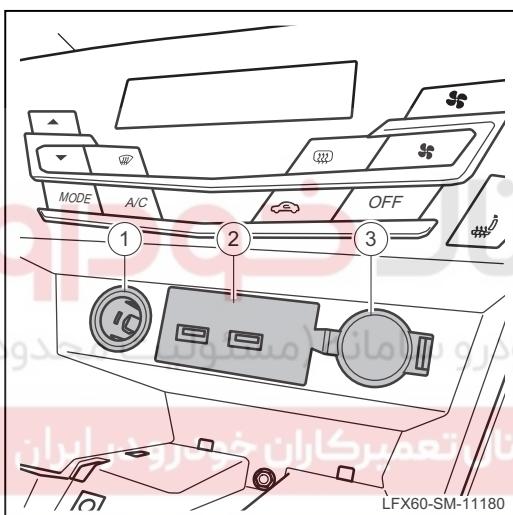
(w). Remove the fixing screw of outlet assembly on the left side of dashboard.



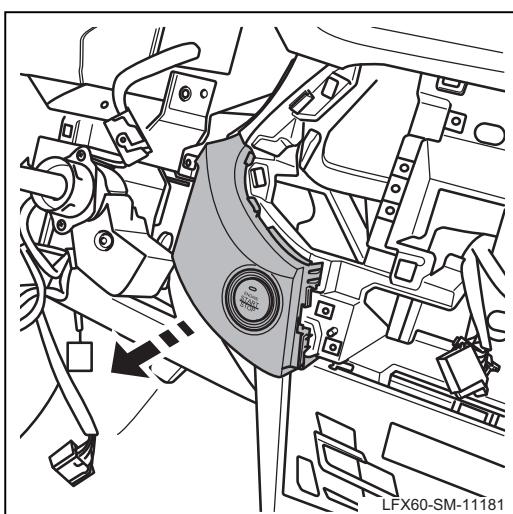
(x). Remove the dashboard switch assembly.



(y). Disconnect the harness plug of dashboard switch assembly.

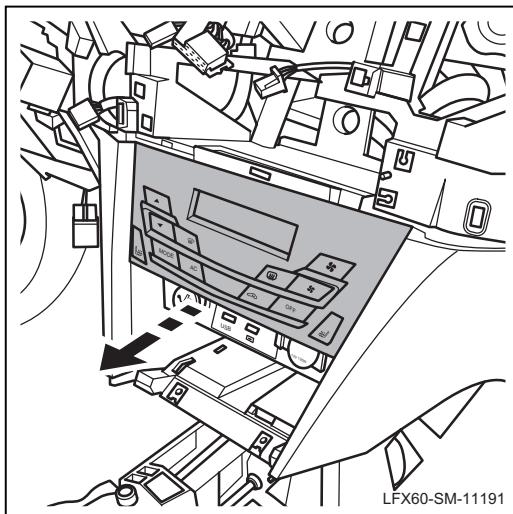


(z). Remove the cigarette lighter base 1.  
 (aa). Remove the USB and charging interface 2.  
 (ab). Remove the output power outlet.

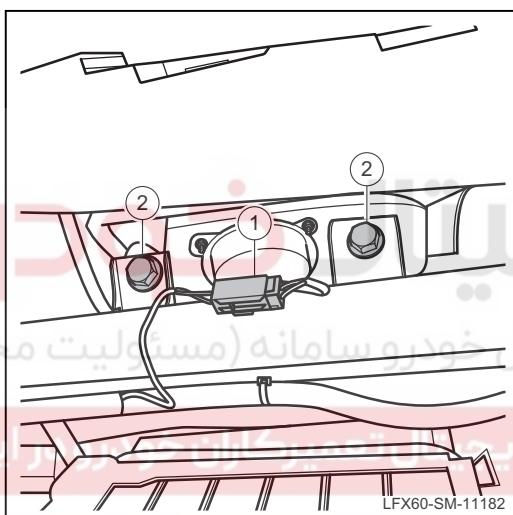


(ac). Remove the button start switch panel assembly.

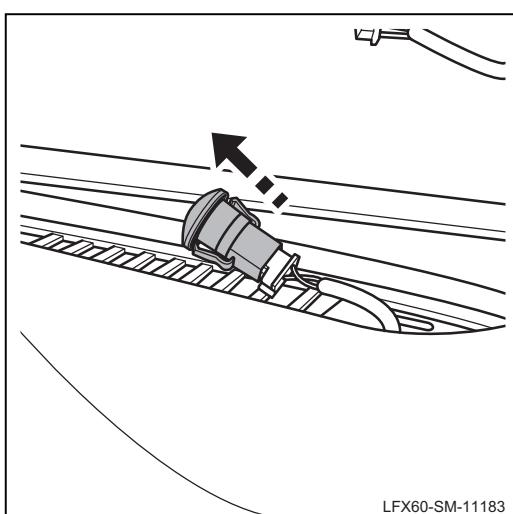
Dashboard and console

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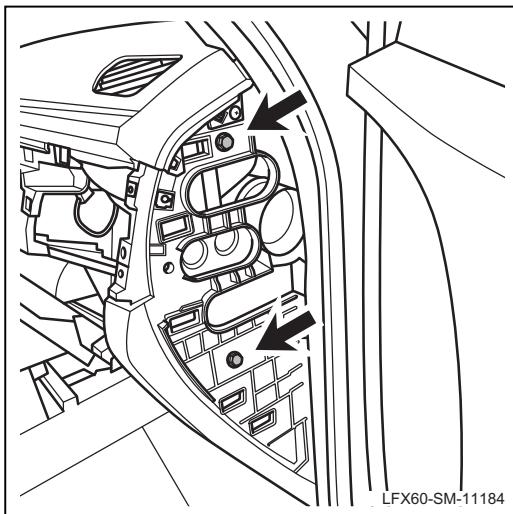
- (ad). Remove the air conditioner control panel.
- (ae). Disconnect the harness plug on the back of air conditioner control panel connector and remove it.



- (af). Disconnect the harness plug 1 of the passenger airbag.
- (ag). Remove the fixing bolts 2 of passenger airbag.



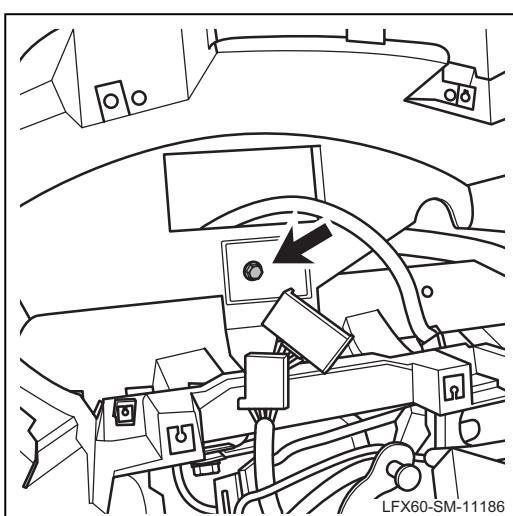
- (ah). Remove the sunlight sensor and disconnect the sensor harness plug.



(ai). Remove the left and right fixing screws of the dashboard.

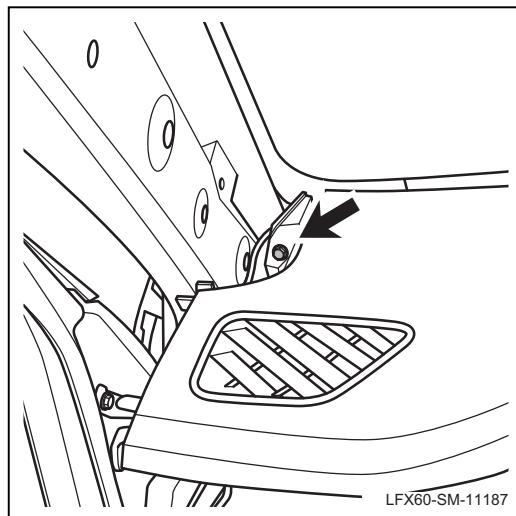


(aj). Remove the fixing screws of A-pillar lower trim panel (both left and right sides).

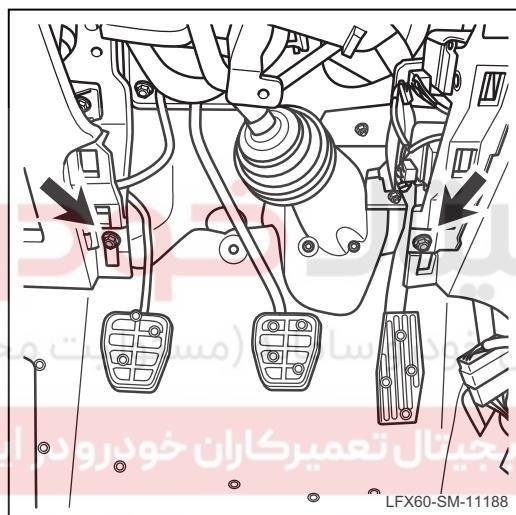


(ak). Remove the inner fixing screws of the instrument cluster.

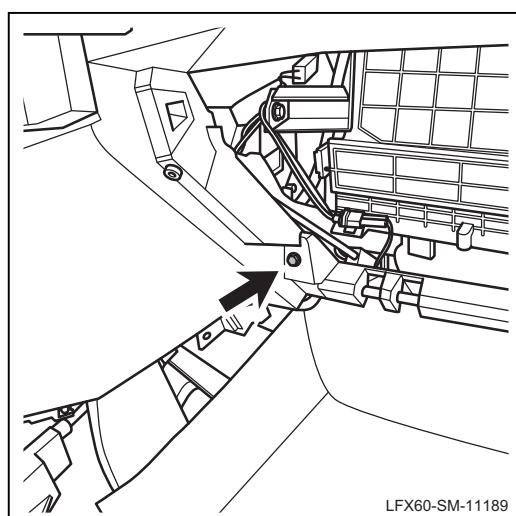
## Dashboard and console



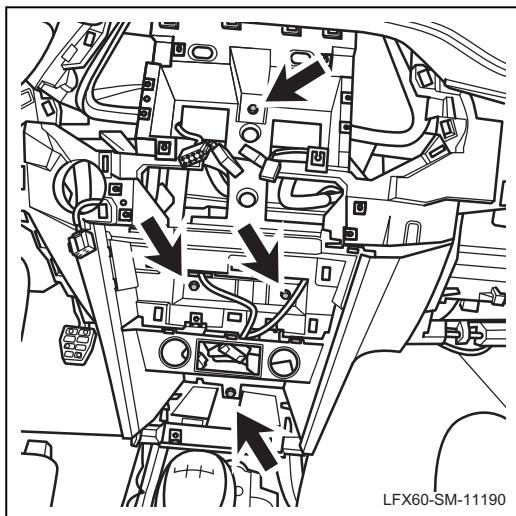
(al). Remove the screws of A-pillar upper trim plate.  
(Both the left and right side)



(am). Remove the inner fixing screws of the left lower board of dashboard.



(an). Remove the lower mounting screws of the glove box.



- (ao). Remove the middle fixing screws of the dashboard.
- (ap). With the help of the assistant, lift the dashboard assembly.

### Installation

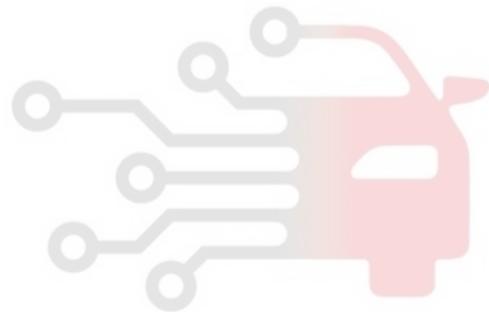
#### 1. Install the dashboard assembly.

- (a). The installation sequence is the reverse of the disassembly order.

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## 11 - Interior trims/exterior trims

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# دیجیتال خودرو

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اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Seat



## Seat

### Technical specifications

#### Torque Specifications

Name	Torque range	
	Metric(Nm)	British(lb-ft)
Fixing bolts of the front seat mounting	65	48
Fixing bolts of the rear seat mounting	65	48

# دیجیتال خودرو

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## Precautions

1. Cover the bodywork with the cloth or gasket while removing and installing various parts to avoid scuffing.
2. Ensure to cover the component with the rag or ethene tape when removing (separating) the component with the screwdriver or similar tool.
3. Replace the deformed and damaged clips.
4. If the part cannot be reused, it must be replaced.
5. Ensure to tighten the bolt and nut to the required torque.
6. After the installation, check whether all the parts work normally.
7. Follow the steps below to clean the parts.
  - Water-soluble stains: soak the soft cloth in warm water, then wring it out and wipe on the stains. And then wipe with a soft dry cloth.
  - Oil: Wet the soft cloth in warm water with mixed neutral detergent (concentration: 2 to 3%) and wipe on the stains. Dip the cloth in clean water, then wring it out and wipe clean the detergent. Wipe with a soft dry cloth.
8. Do not use organic solvents such as thinner, benzene, alcohol and gasoline.
9. For leather seats, use a leather seat cleaner.



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Seat



## Operating Principle

### System Overview

#### Electric seat switch

- Built-in tilt switch, slide switch and lift switch to control the power supply of each motor.
- Installed on the outer trim of the seat cushion.

#### Electric seat system

Regardless of the location of the ignition switch, the power seat switch can be operated because the power supply is always supplied to the power seat switch.

#### Sliding operation

When operating the slide switch in the power seat switch, the sliding motor operates and the seat position can be adjusted forward and backward

#### Tilting operation

When operating the tilt switch in the power seat switch, the tilting motor operates and the seat backrest position can be adjusted

#### Lift operation

When operating the lift switch in the power seat switch, the lifting motor operates and the seat cushion position can be adjusted up and down.



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## Diagnostic Information and Procedures

### Diagnosis Instructions

Before the failure diagnose of the seat system, familiarize yourself with the familiarity of the seat system, and then start the seat system diagnostics, which helps to determine the correct troubleshooting step in the event of a failure, and more importantly, it also helps determine whether the situation described by the customer is normal operating.

Any troubleshooting of the seat system should take the seat system check as a starting point and instruct the service personnel to take the next logical step to troubleshoot. Comprehend and correctly use the diagnostic flow chart to shorten the diagnosis time and avoid the misjudgement.

### Visual Inspection

1. Confirm the problem raised by the customer.
2. Check for evident mechanical and electrical faults.

### Visual inspection table

Mechanical	Electrical
<ul style="list-style-type: none"> <li>• Seat adjustment switch</li> <li>• Seat slider is damaged</li> <li>• Front/rear adjustment motor damage</li> <li>• The backrest adjuster motor is damaged</li> <li>• Up and down adjustment motor damage</li> </ul>	<ul style="list-style-type: none"> <li>• Line</li> <li>• Fuse</li> <li>• Wiring harness plug</li> </ul>

3. Solve the problem finding before the next step inspection.
4. If the observed or raised problem is the evident and the cause has been found, ensure to fix this fault before proceeding with the next step.
5. If no problem is found through the visual check, confirm the fault and refer to the fault symptom list.

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اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

Seat



### List of fault symptoms

Symptom	Possible point of failure	Recommended Measures
All adjuster motors do not work	<ul style="list-style-type: none"> <li>Fuse</li> <li>Wiring harness plug</li> <li>Line</li> </ul>	Refer to: Diagnostic process for all the adjuster motor does not operate
The back and forth adjuster motor for driver's seat does not operate	<ul style="list-style-type: none"> <li>Wiring harness plug</li> <li>Seat adjustment switch</li> <li>Line</li> <li>Front/rear adjustment motor damage</li> </ul>	Refer to: Diagnostic process for back and forth adjuster motor for driver's seat does not operate
The up and down adjuster motor for driver's seat does not operate	<ul style="list-style-type: none"> <li>Wiring harness plug</li> <li>Seat adjustment switch</li> <li>Line</li> <li>Up and down adjustment motor damage</li> </ul>	Refer to: Diagnostic process for the up and down adjuster motor for driver's seat does not operate
The backrest adjuster motor for driver's seat does not operate	<ul style="list-style-type: none"> <li>Wiring harness plug</li> <li>Adjustment switch</li> <li>Line</li> <li>Backrest adjuster motor</li> </ul>	Refer to: Diagnostic process for backrest adjuster motor for driver's seat does not operate

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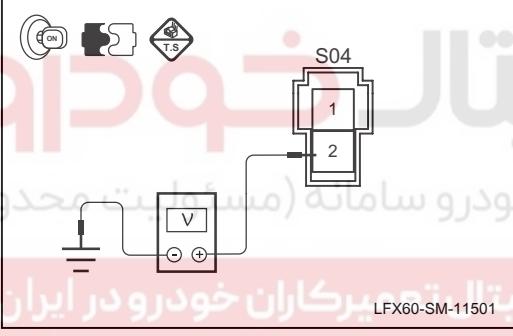


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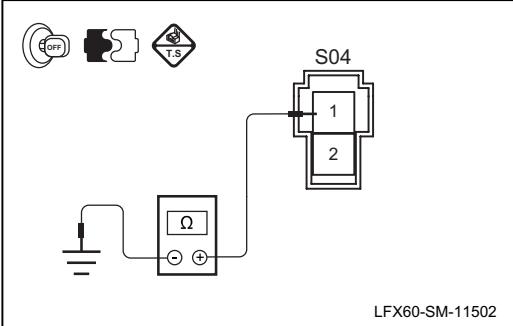


### Diagnostic process for all the adjuster motor does not operate

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the seat harness plugs for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the fault parts.</p>
2. Check the fuse.	<p>A. Check the fuse FS26. Fuse rated capacity: 20 A Is it OK after checking? →Yes To Step 2. →No Replace the fuse.</p>
3. Check the electric seat power.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the seat power harness plug S04. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the No.2 terminal of the harness plug S04 of the power supply for seats and the reliable grounding with a multimeter. <b>Standard voltage: 11 ~ 14V</b> Is the voltage normal? →Yes To Step 4. →No Repair the electric seat power line open circuit fault and replace the harness if necessary.</p> 

Seat

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Test condition	Details/results/measures
<p>4. Check the electric seat ground line.</p> 	<p>A. Operate the start switch to turn the power to OFF state.      B. Disconnect the seat power harness plug S04.      C. Measure the resistance between the seat power harness plug S04 terminal 1 and fixed ground point with the multimeter.  <b>Standard value: less than 5</b>      Is the resistance normal?      →Yes      To Step 5.      →No      Repair the electric seat ground line open circuit fault.</p>
<p>5. Check the seat adjustment switch.</p>	<p>A. Operate the start switch to turn the power to OFF state.      B. Disconnect the battery negative terminal.      C. Remove the seat adjustment switch and replace it with the normal switch of the same model.      D. Connect the negative connector of battery, operate the seat adjustment switch, and check the seat adjustment function.      Is the system normal?      →Yes      Replace the driver's seat adjustment switch.  <b>Refer to: Replacement of driver's seat adjustment switch</b>      →No      To Step 6.</p>
<p>6. Check the adjuster motor for driver's seat</p>	<p>A. Replacement of driver's seat adjuster motor.  <b>Refer to: Replacement of driver's seat front/rear adjustment motor</b>  <b>Refer to: Replacement of driver's seat backrest adjustment motor</b>      Confirms that the troubleshooting is successful.</p>

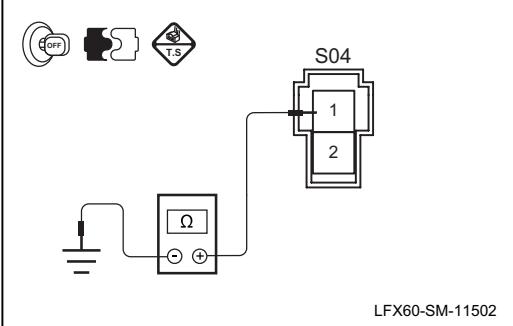


### Diagnostic process for back and forth adjuster motor for driver's seat does not operate

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the seat harness plugs for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the fault parts.</p>
2. Check the fuse.	<p>A. Check the fuse FS26. <b>Fuse rated capacity: 20 A</b> Is it OK after checking? →Yes To Step 2. →No Replace the fuse.</p>
3. Check the electric seat power.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the seat power harness plug S04. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the seat power harness plug S04 terminal 2 and fixed ground point with the multimeter. <b>Standard voltage: 11 ~ 14 V</b> Is the voltage normal? →Yes To Step 4. →No Repair the electric seat power line open circuit fault and replace the harness if necessary.</p>

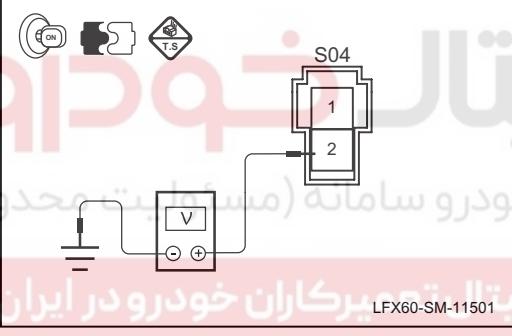
Seat

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Test condition	Details/results/measures
<p>4. Check the electric seat ground line.</p> 	<p>A. Operate the start switch to turn the power to OFF state.      B. Disconnect the seat power harness plug S04.      C. Measure the resistance between the seat power harness plug S04 terminal 1 and fixed ground point with the multimeter.  <b>Standard resistance:less than 5</b>      Is the resistance normal?      →Yes      To Step 5.      →No      Repair the electric seat ground line open circuit fault.</p>
<p>5. Check the seat adjustment switch.</p>	<p>A. Operate the start switch to turn the power to OFF state.      B. Disconnect the battery negative terminal.      C. Remove the seat adjustment switch and replace it with the normal switch of the same model.      D. Connect the negative connector of battery, operate the seat adjustment switch, and check back and forth adjustment function of the seat.      Is the system normal?      →Yes      Replace the driver's seat adjustment switch.  <b>Refer to: Replacement of driver's seat adjustment switch</b>      →No      To Step 6.</p>
<p>6. Check the back and forth adjuster motor for driver's seat</p>	<p>A. Replacement of back and forth adjuster motor of driver's seat.  <b>Refer to: Replacement of driver's seat front/rear adjustment motor</b>      Confirms that the troubleshooting is successful.</p>



### Diagnostic process for the up and down adjuster motor for driver's seat does not operate

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the seat harness plugs for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the fault parts.</p>
2. Check the fuse.	<p>A. Check the fuse FS26. <b>Fuse rated capacity: 20 A</b> Is it OK after checking? →Yes To Step 2. →No Replace the fuse.</p>
3. Check the electric seat power.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the seat power harness plug S04. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the seat power harness plug S04 terminal 2 and fixed ground point with the multimeter. <b>Standard voltage: 11 ~ 14 V</b> Is the voltage normal? →Yes To Step 4. →No Repair the electric seat power line open circuit fault and replace the harness if necessary.</p> 

Seat

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Test condition	Details/results/measures
4. Check the electric seat ground line.	<p>A. Operate the start switch to turn the power to OFF state.      B. Disconnect the seat power harness plug S04.      C. Measure the resistance between the seat power harness plug S04 terminal 1 and fixed ground point with the multimeter.  <b>Standard resistance:less than 5</b>      Is the resistance normal?      →Yes      To Step 5.      →No      Repair the electric seat ground line open circuit fault.</p>
5. Check the seat adjustment switch.	<p>A. Operate the start switch to set the power mode to the "OFF" state.      B. Disconnect the battery negative connector.      C. Remove the seat adjustment switch and replace it with the normal switch of the same model.      D. Connect the negative connector of battery, operate the seat adjustment switch, and check the up and down adjustment function of the seat.      Is the system normal?      →Yes      Replace the driver's seat adjustment switch.  <b>Refer to: Replacement of driver's seat adjustment switch</b>      →No      To Step 6.</p>
6. Check the up and down adjuster motor for driver's seat	<p>A. Replace the up and down adjuster motor of driver's seat.  <b>Refer to: Replacement of the up and down adjuster motor of driver's seat</b>      Confirms that the troubleshooting is successful.</p>



### Diagnostic process for backrest adjuster motor for driver's seat does not operate

Test condition	Details/results/measures
1. General inspection	<p>A. Check the seat harness plugs for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To Step 2. →No Repair the fault parts.</p>
2. Check the fuse.	<p>A. Check the fuse FS26. <b>Fuse rated capacity: 20A</b> Is it OK after checking? →Yes To Step 3. →No Replace the fuse.</p>
3. Check the electric seat power.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative terminal. B. Disconnect the seat power harness plug S04. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the No.2 terminal of the harness plug S04 of the power supply for seats and the reliable grounding. <b>Standard voltage: 11 ~ 14V</b> Is the voltage normal? →Yes To Step 4. →No Repair the electric seat power line open circuit fault and replace the harness if necessary.</p>

Seat

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Test condition	Details/results/measures
4. Check the electric seat ground line.	<p>A. Operate the start switch to set the power mode to the “OFF” state.</p> <p>B. Disconnect the seat power harness plug S04.</p> <p>C. Measure the resistance between the No.1 terminal of the harness plug S04 of the power supply for seats and the reliable grounding.</p> <p><b>Standard Resistance:less than 5 Ω</b></p> <p>Is the resistance normal?</p> <p>→Yes To Step 5.</p> <p>→No Repair the electric seat ground line open circuit fault.</p>
5. Check the seat adjustment switch.	<p>A. Operate the start switch to set the power mode to the “OFF” state.</p> <p>B. Disconnect the battery negative connector.</p> <p>C. Remove the seat adjustment switch and replace it with the normal switch of the same model.</p> <p>D. Connect the negative connector of battery, operate the seat adjustment switch, and check the seat adjustment function.</p> <p>Is the system normal?</p> <p>→Yes Replace the driver's seat adjustment switch. <b>Refer to: Replacement of driver's seat adjustment switch</b></p> <p>→No To Step 6.</p>
6. Check the backrest adjuster motor for driver's seat	<p>A. Replace the backrest adjuster motor of driver's seat. <b>Refer to: Replacement of driver's seat backrest adjustment motor</b></p> <p>Confirms that the troubleshooting is successful.</p>

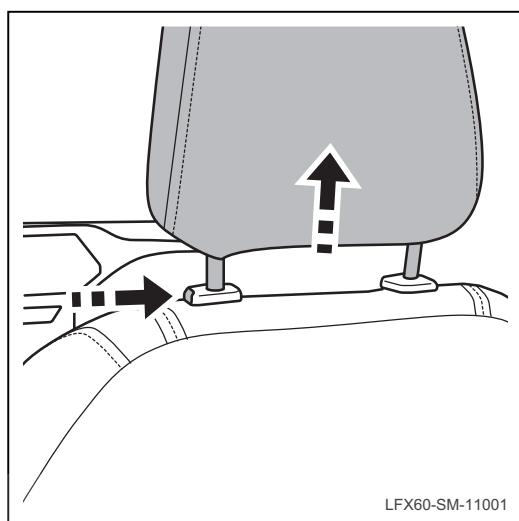


## Removal and installation

### Replacement of headrest assembly

#### Removal

##### 1. Remove the headrest assembly.



- (a). Press the headrest adjustment button.
- (b). Take off the headrest assembly.

#### Installation

##### 1. Install the headrest assembly.

- (a). The installation sequence is the reverse of the disassembly order.

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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## Seat

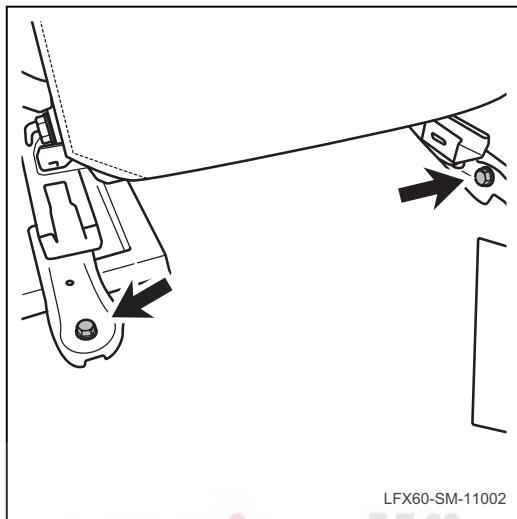


## Replacement of driver's seat assembly

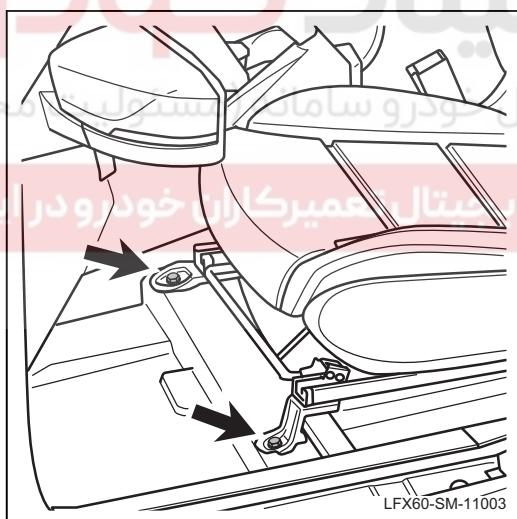
## Removal

## 1. Remove the driver's seat assembly

- (a). Disconnect the battery negative connector.
- (b). Remove the headrest assembly, refer to: Replacement of headrest assembly.
- (c). Remove the trim cover of rear fixing bolts for driver's seat assembly.



- (d). Adjust the driver's seat assembly to the most forward position. Remove the rear fixing bolts for driver's seat assembly.



- (e). Remove the trim cover of front fixing bolts for driver's seat assembly.
- (f). Adjust the driver's seat assembly to the most backward position. Remove the front fixing bolts for driver's seat assembly.
- (g). Separate the harness plug and harness fixing clip on the bottom of the seat.
- (h). Take off the driver's seat assembly

## Installation

## 1. Install the driver's seat assembly.

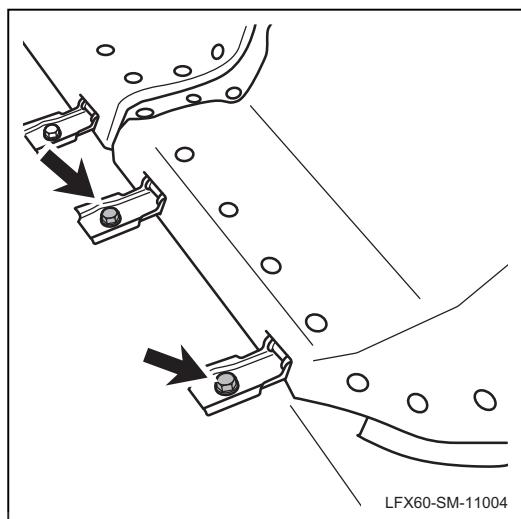
- (a). The installation sequence is the reverse of the disassembly order.

## Replacement of rear right seat assembly

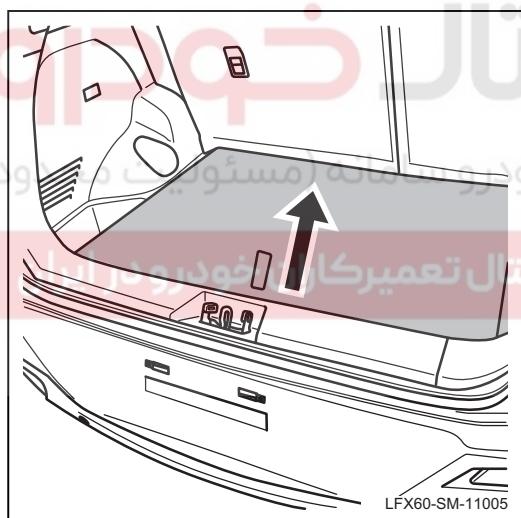
### Removal

#### 1. Remove the rear right seat assembly.

(a). Remove the headrest assembly. Refer to the replacement of headrest assembly.

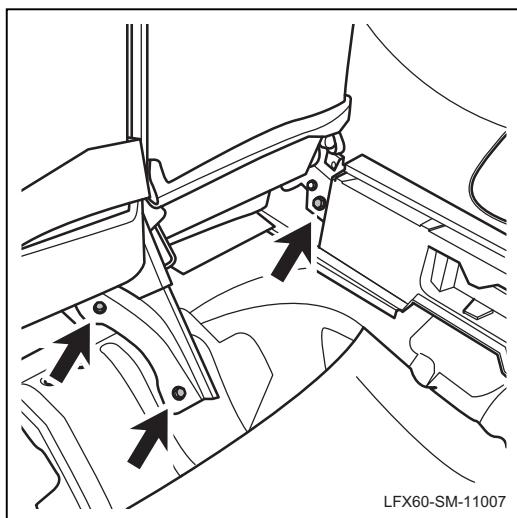


- (b). Turn over the rear right seat cushion.
- (c). Remove the fixing bolts of the rear right seat cushion.
- (d). Take off the rear right seat cushion.



- (e). Remove the spare tire cover plate decorative parts.

Seat

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- (f). Lay down the rear right seat backrest.
- (g). Remove the fixing bolts of the rear right seat backrest.
- (h). Take off the rear right seat assembly.

### Installation

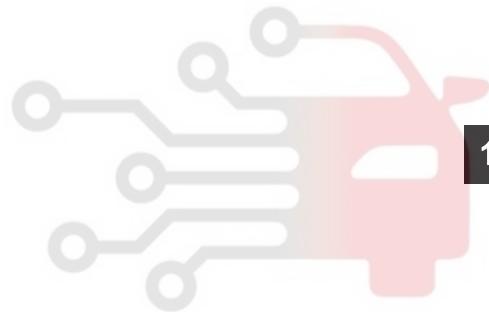
#### 1. Install the rear right seat assembly.

- (a). The installation sequence is the reverse of the disassembly order.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

11-1459

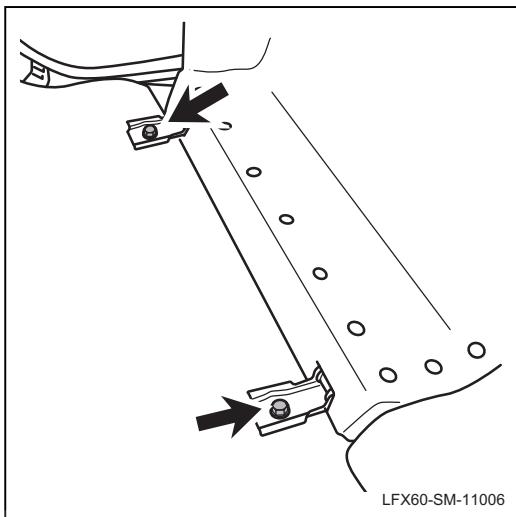
## Replacement of rear left seat assembly

### Removal

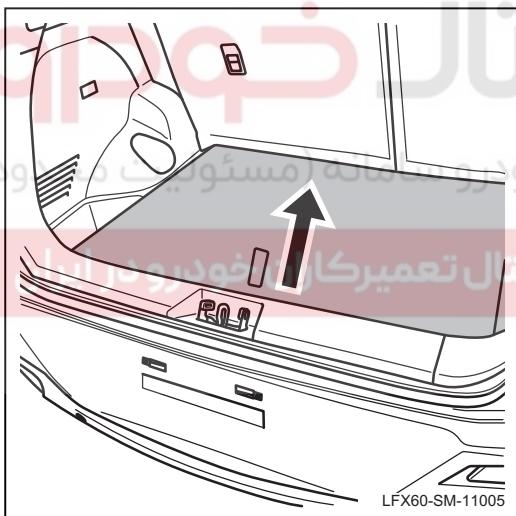
#### 1. Remove the rear left seat assembly.

(a). Remove the headrest assembly. **Refer to the replacement of headrest assembly.**

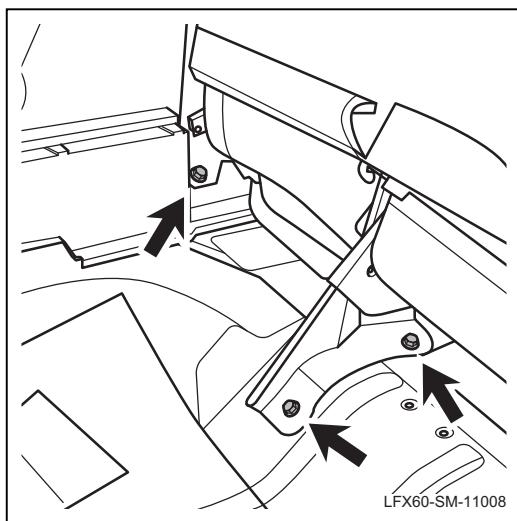
- (b). Turn over the rear left seat cushion.
- (c). Remove the fixing bolts of the rear left seat cushion.
- (d). Take off the rear left seat cushion.



- (e). Remove the spare tire cover plate decorative parts.



Seat

 力帆汽车  
LIFAN AUTO


- (f). Lay down the rear left seat backrest.
- (g). Remove the fixing bolts of the rear left seat backrest.

### Installation

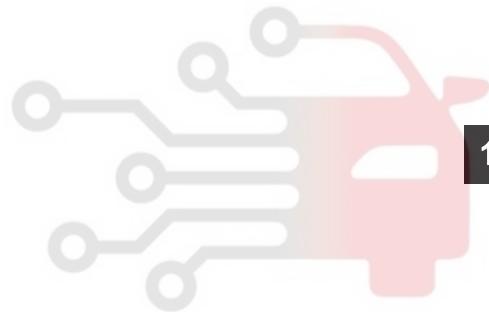
#### 1. Install the rear left seat assembly.

- (a). The installation sequence is the reverse of the disassembly order.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

11-1461

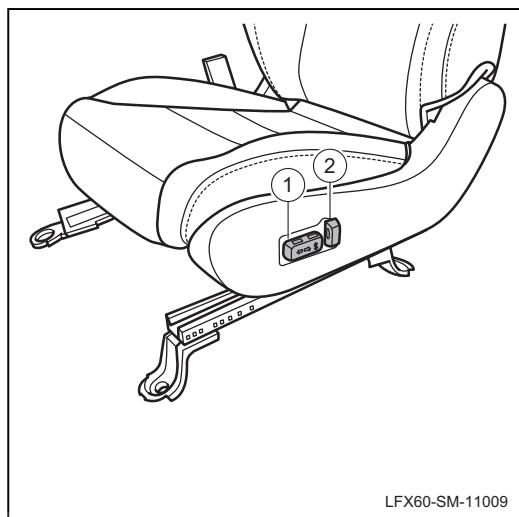


## Replacement of seat adjustment switch

### Removal

#### 1. Remove the seat adjustment switch.

(a). Disconnect the battery negative connector.



- (b). Remove the adjustment knob 1 of seat cushion adjustment switch.
- (c). Remove the adjustment knob 2 of seat backrest adjustment switch.

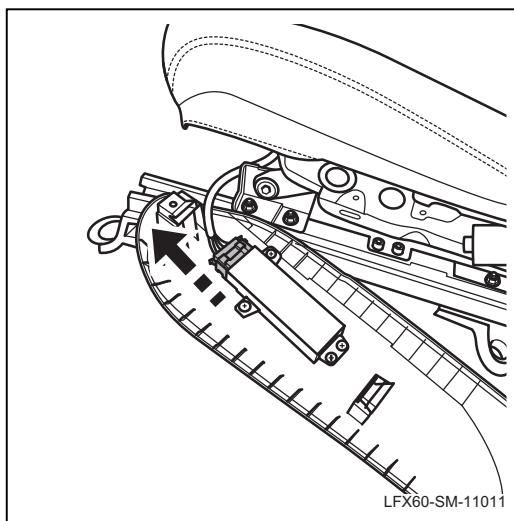


- (d). Remove the front and rear fixing screws of seat trim panel.
- (e). Move the seat trim panel to the outside.

شرکت دیجیتال خودرو سرگرمی (سازمان تعمیرات محدود)

اولین سامانه دیجیتال تعمیرات خودرو بر ایران

Seat

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- (f). Disconnect the harness plug of seat adjustment switch.
- (g). Remove the seat trim panel.
- (h). Remove the fixing screw of seat adjustment switch, and take off the adjustment switch.

### Installation

#### 1. Install the seat adjustment switch.

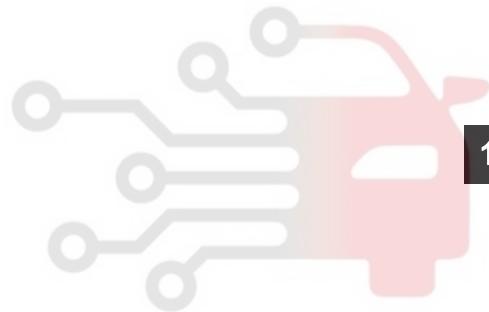
- (a). The installation sequence is the reverse of the disassembly order.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

11

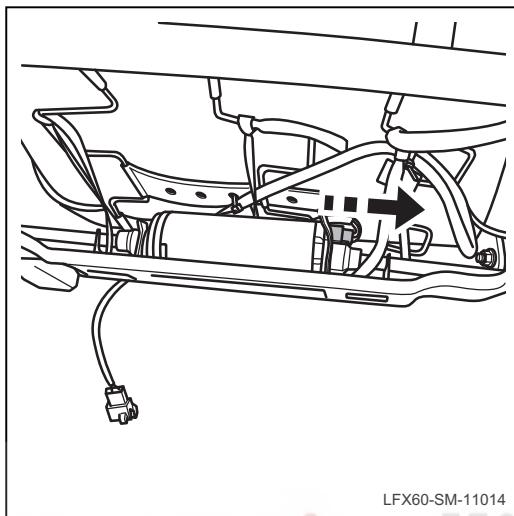


11-1463

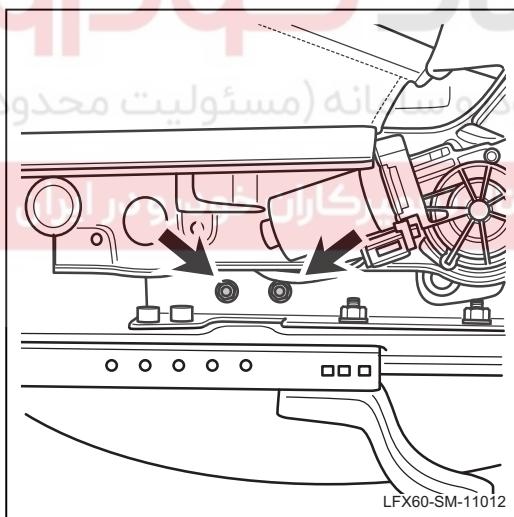
## Replacement of the adjuster motor of driver's seat cushions

### Removal

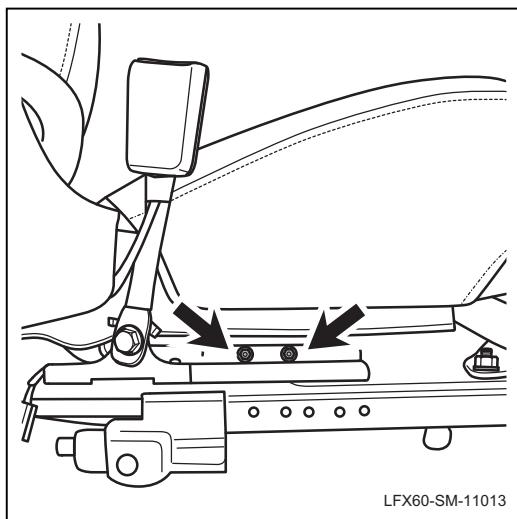
1. Remove the adjuster motor of driver's seat cushions.
  - (a). Disconnect the battery negative connector.
  - (b). Remove the driver's seat assembly. Refer to the replacement of driver's seat assembly.
  - (c). Remove the seat exterior trim board. Refer to the replacement of seat adjustment switch.
  - (d). Disconnect the harness plug of the adjuster motor.



- (e). Remove the fixing screw on the left side of the adjuster motor.



Seat

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- (f). Remove the fixing screw on the right side of the adjuster motor.
- (g). Take off the adjuster motor of driver's seat cushions.

### Installation

1. **Install the adjuster motor of driver's seat cushions.**
- (a). The installation sequence is the reverse of the disassembly order.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



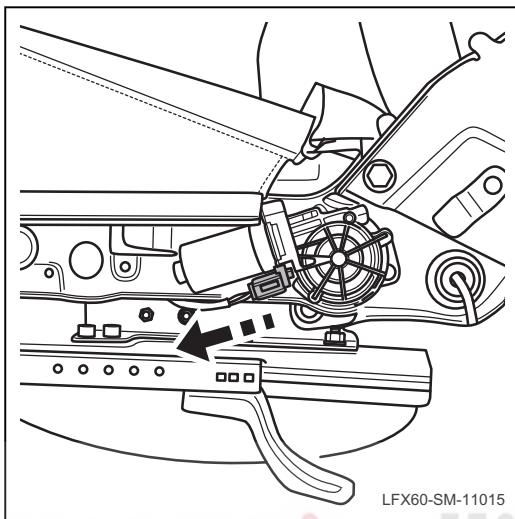
11

11-1465

## Replacement of the adjuster motor of driver's seat backrest

### Removal

1. Remove the adjuster motor of driver's seat backrest.
  - (a). Disconnect the battery negative connector.
  - (b). Remove the driver's seat assembly. Refer to the replacement of driver's seat assembly.
  - (c). Remove the seat exterior trim board. Refer to the replacement of seat adjustment switch.
  - (d). Disconnect the harness plug of the adjuster motor of driver's seat backrest.



- (e). Remove the fixing nut of the adjuster motor of driver's seat backrest.
- (f). Take off the adjuster motor of driver's seat backrest.

### Installation

1. Install the adjuster motor of driver's seat backrest.
  - (a). The installation sequence is the reverse of the disassembly order.



## 11- Interior trim

Interior trim.....	11-1469
Precautions .....	11-1469
Preparation.....	11-1470
Removal and installation ...	11-1471

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Interior trim



## Interior trim

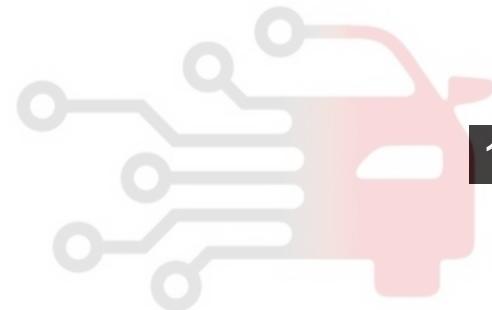
### Precautions

#### Precautions

1. Do not remove the interior trim board with the sharp tool. Instead, cover the tool with the cloth when removing the board.
2. If the harness plug should be removed, disconnect the battery negative terminal first.
3. Before the repair, fit the protective sheath over the seats and steering wheel.
4. Do not pull the harness while disconnecting the system component plug so as to prevent damaging the harness.
5. Remove the interior and exterior trims system components. Use the special tools.
6. During the removal of interior and exterior trim system components, if it is difficult to remove, do not take down the component forcedly. Check for buckle or screw omission before operating.
7. Avoid the oil or chemicals contacting the interior trims or exterior trims so as to prevent the corrosion.

دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

11-1469



## Preparation

### General maintenance tools

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



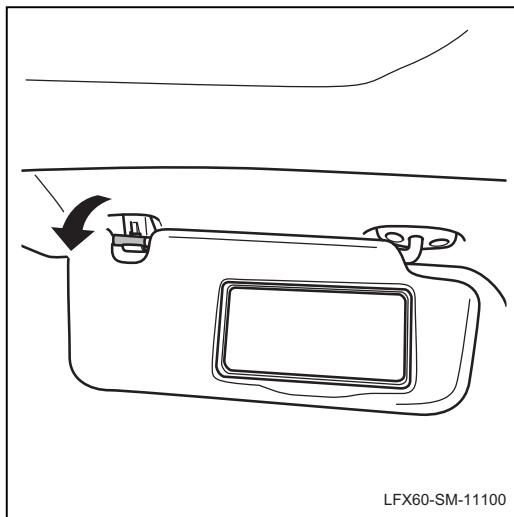
Interior trim



## Removal and installation

### Replacement of the sun visor

#### 1. Remove the sun visor.



(a). Remove the sun visor from the hook.



(b). Remove the fixing screw of the sun visor and hook.

(c). Take off the sun visor.

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### Installation

#### 1. Install the sun visor.

(a). The installation sequence is the reverse of the disassembly order.

11-1471

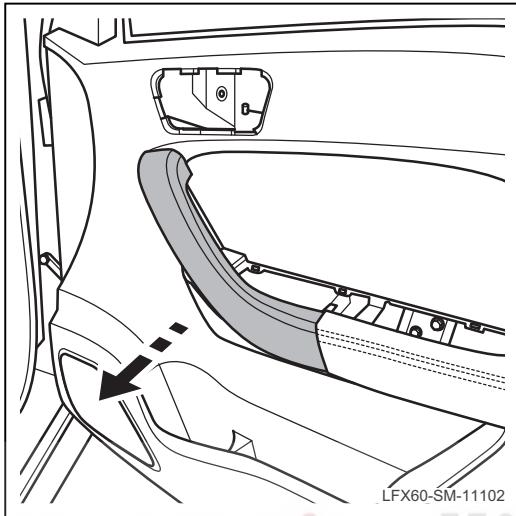
## Replacement of front door inner board

### Removal

#### 1. Remove the front door inner board.

- (a). Remove the handhold of front door inner board, refer to: **Replacement of handhold of front door inner board.**
- (b). Remove the power window switch, refer to: **Replacement of the power window switch.**

- (c). Use the appropriate tool to remove the trim panel of handhold.



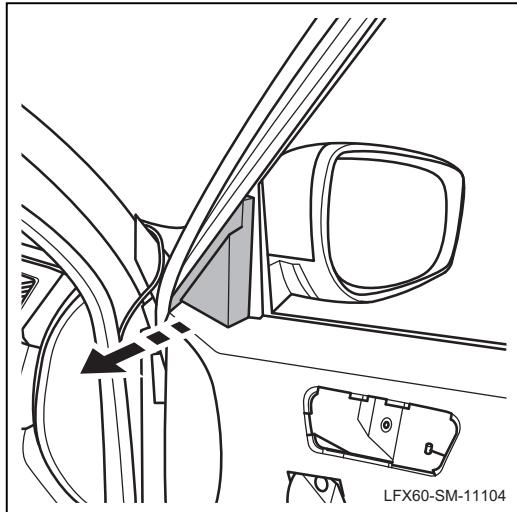
- (d). Remove the pull decorative panel inside fixing screw.

شرکت دیجیتال خودروهای ایران (تمام مخصوص ایران)

اولین سامانه دیجیتال تعمیرکاران خودرو ایران



Interior trim

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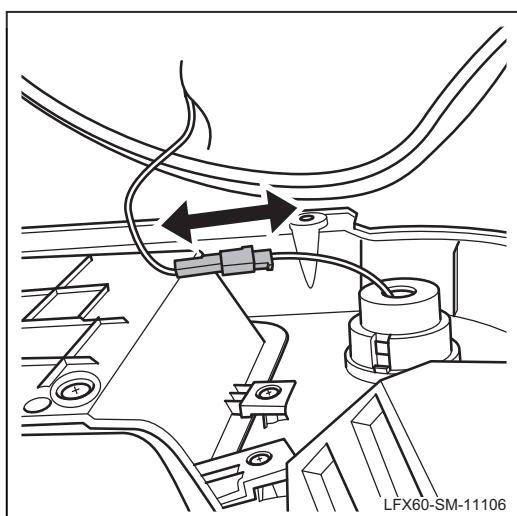
(e). Remove the pull decorative panel inside fixing screw.



(f). Remove the lower fixing screws on the front door inner board.



11



(g). Use the appropriate tool to remove the front door inner board.  
(h). Disconnect the harness plug of speaker, and take off the front door inner board.

### Installation

#### 1. Install the front door inner board.

(a). The installation sequence is the reverse of the disassembly order.

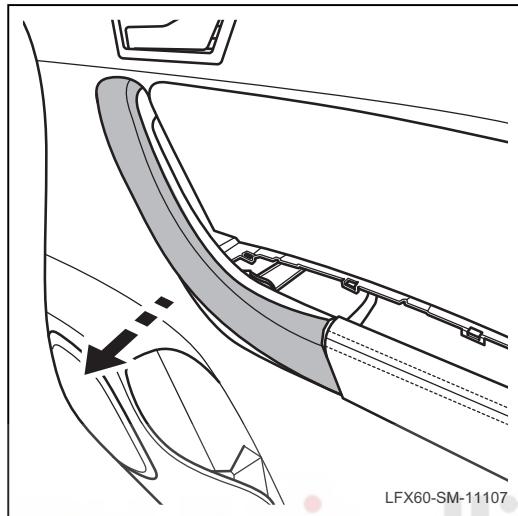
11-1473

## Replacement of rear door inner board

### Removal

#### 1. Remove the rear door inner board.

- (a). Remove the handhold of rear door inner board, **refer to: Replacement of handhold of inner board.**
- (b). Remove the power window switch of the rear door, **refer to: Replacement of the power window switch.**



- (c). Use the appropriate tool to remove the handhold cover of rear door.

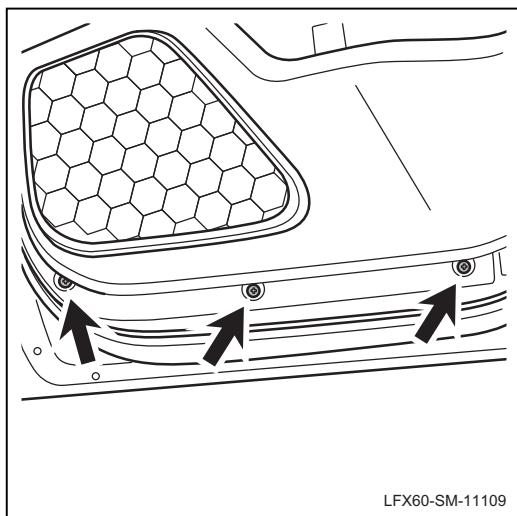


- (d). Remove the fixing screws of rear door handhold.

شرکت دیجیتال خودرو سازان (اولین سامانه دیجیتال تعمیرکاران خودرو محدوده)

اولین سامانه دیجیتال تعمیرکاران خودرو

Interior trim

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- (e). Remove the lower fixing screws of rear inner board.
- (f). Remove the rear door inner board.

### Installation

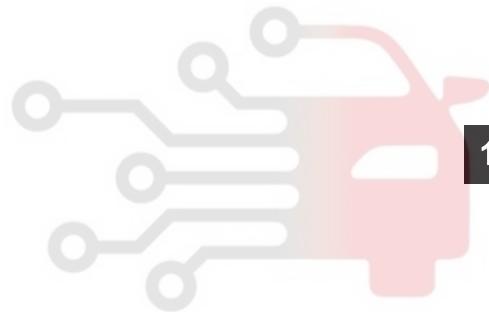
#### 1. Install the rear door inner board.

- (a). The installation sequence is the reverse of the disassembly order.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

11-1475

## Replacement of A pillar upper trim board

### Removal

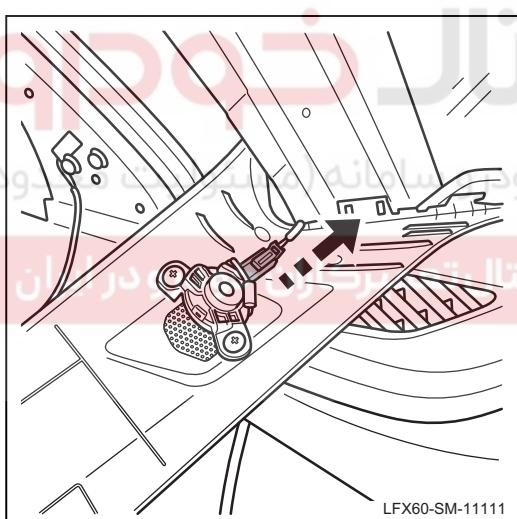
#### 1. Remove the upper trim panel of the A-pillar.

(a). Disconnect the battery negative connector.

(b). Remove the door seal.  
 (c). Use the appropriate tool to remove the upper trim panel of the A-pillar.



(d). Disconnect the harness plug of the front tweeter.  
 (e). Take off the upper trim panel of the A pillar.



### Installation

#### 1. The installation sequence is reverse to the removal sequence.

**Note:**

During the installation, ensure to install the trim board buckle in position.

Interior trim

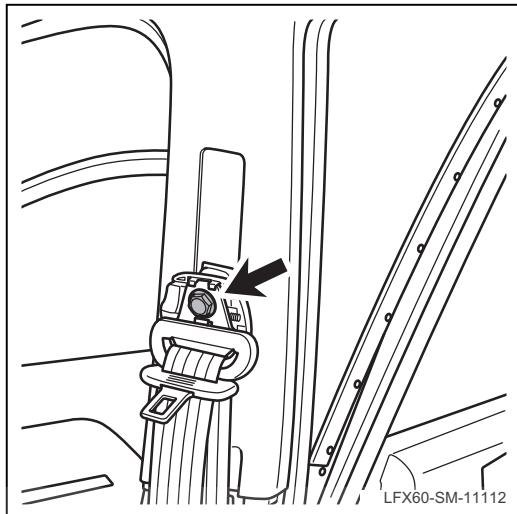


## Replacement of B pillar upper trim board

### Removal

#### 1. Remove the B pillar upper trim board.

(a). Remove the B pillar lower decorative panel. Refer to the replacement of B pillar lower decorative panel.



(b). Use the appropriate tool to remove the trim cover of the upper bolt of front seat belt and remove the upper fixing bolts of front seat belt.



(c). Remove the screws of B-pillar upper trim plate.  
 (d). Use the appropriate tool to remove the upper trim panel of the B-pillar.

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### Installation

#### 1. Install the B pillar upper decorative panel.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the trim board buckle in position.

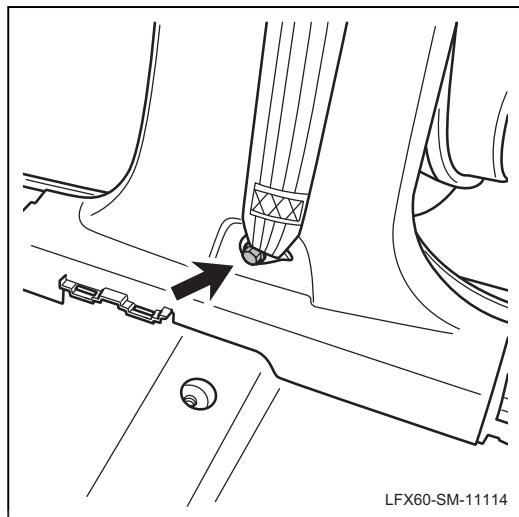
11-1477

## Replacement of B pillar lower trim board

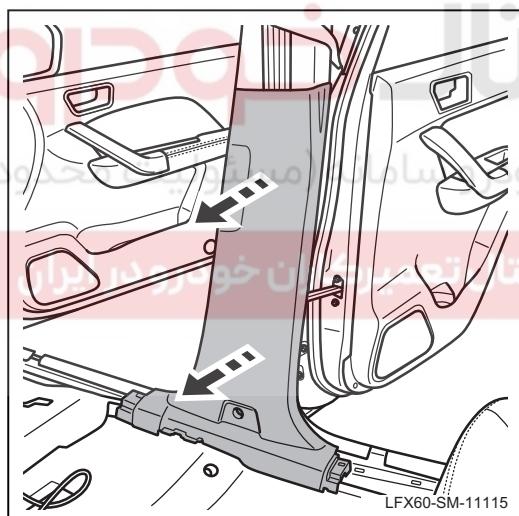
### Removal

#### 1. Remove the B pillar lower trim board.

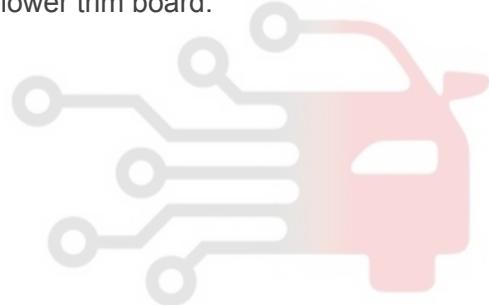
(a). Remove the front and rear door sill, refer to: Replacement of front and rear door sill.



(b). Remove the trim part of fixing bolt of seat belt and remove the lower mounting bolts of front seat belt.



(c). Remove the B pillar lower trim board.



### Installation

#### 1. Install the B pillar upper decorative panel.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the trim board buckle in position.

Interior trim

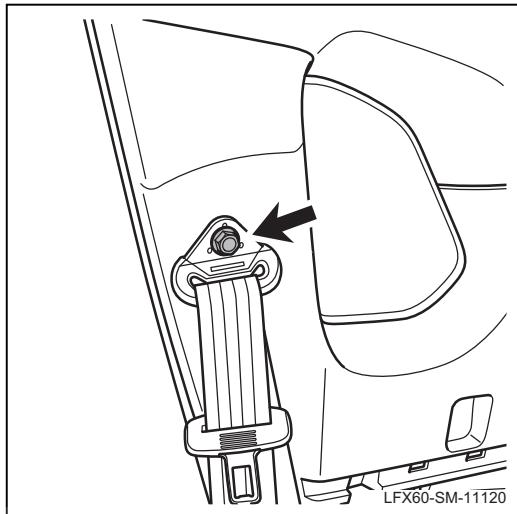


## Replacement of C pillar upper trim board

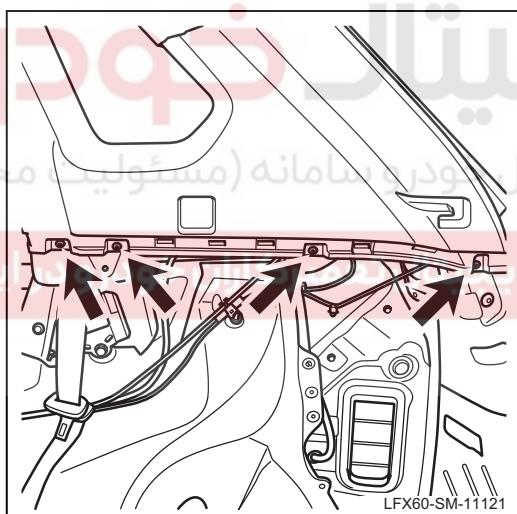
### Removal

#### 1. Remove the C pillar upper trim board.

(a). Remove the C pillar lower decorative panel. Refer to the C pillar lower decorative panel.



(b). Remove the upper fixing bolts of the rear seat belt.



(c). Remove the fixing screws of upper trim panel on the C-pillar, and remove the upper trim panel of C-pillar.

11

### Installation

#### 1. Install the C pillar lower decorative panel.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

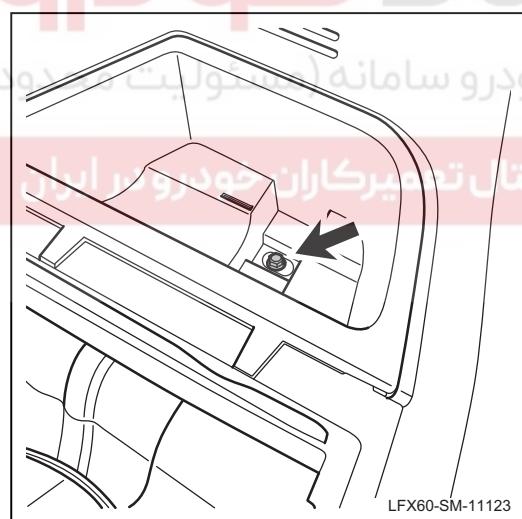
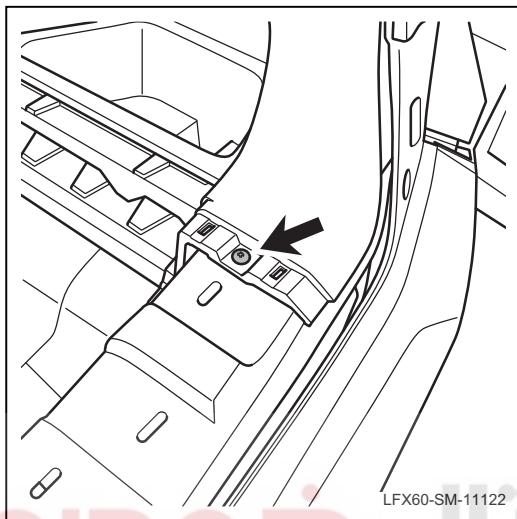
During the installation, ensure to install the trim board buckle in position.

11-1479

## Replacement of C pillar lower trim board

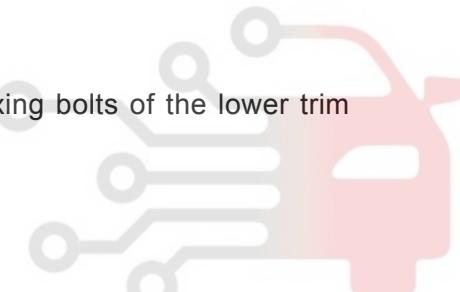
### Removal

1. Remove the C pillar lower trim board.
  - (a). Remove the rear seat, refer to:Replacement of the rear seat assembly.
  - (b). Remove the trim panel of rear door sill, refer to:Replacement of the trim panel of rear door sill.
  - (c). Remove the rear trim panel of trunk, refer to:Replacement of the rear trim panel of trunk.
  - (d). Remove the fixing screws of the lower trim panel of C-pillar.

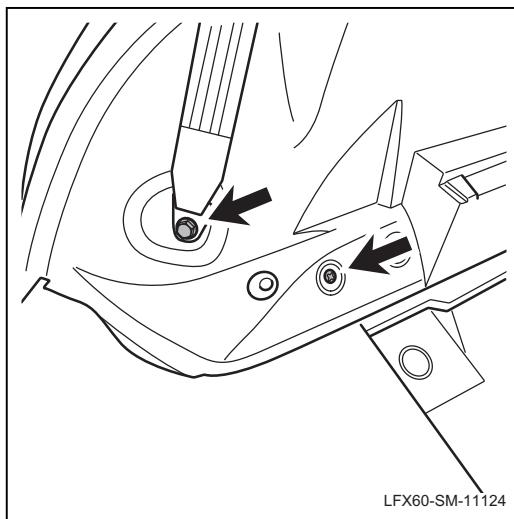


- (e). Remove the inner fixing bolts of the lower trim panel of C-pillar.

اولین سامانه دیجیتال تعمیرکاران خودرو سامانه (ستروکت مخ)



Interior trim

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- (f). Remove the lower fixing bolt of the rear seat belt and the fixing screws of C-pillar lower trim panel.
- (g). Use the appropriate tool to remove the lower trim panel of the C-pillar.

### Installation

#### 1. Install the C pillar lower decorative panel.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the trim board buckle in position.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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11

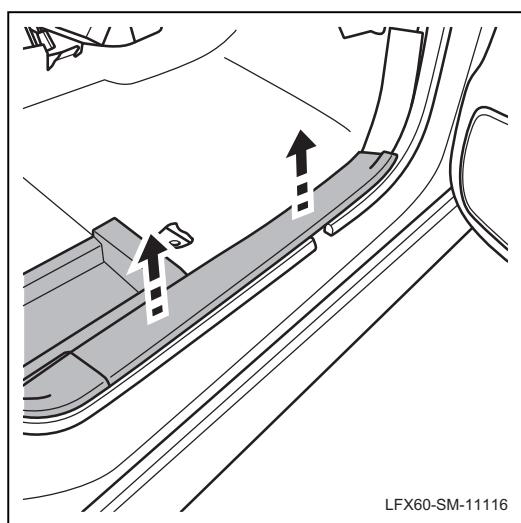
11-1481



## Replacement of the trim panel of front door sill

### Removal

#### 1. Remove the trim panel of front door sill.



(a). Remove the trim panel of front door sill.

### Installation

#### 1. Install the trim panel of front door sill.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the trim board buckle in position.

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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Interior trim

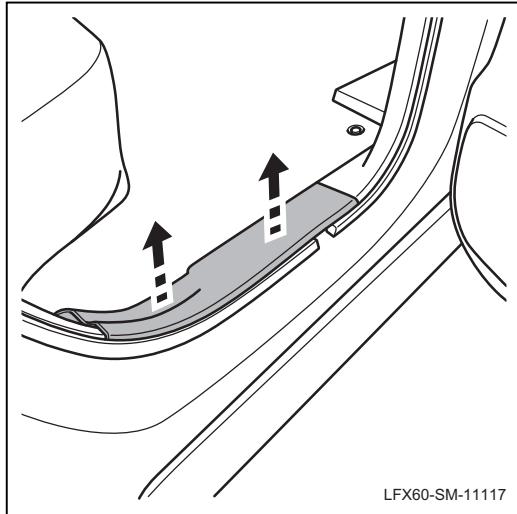


## Replacement of the trim panel of rear door sill

### Removal

1. Remove the trim panel of rear door sill.

(a). Remove the trim panel of rear door sill.



### Installation

1. Install the trim panel of rear door sill.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the trim board buckle in position.

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

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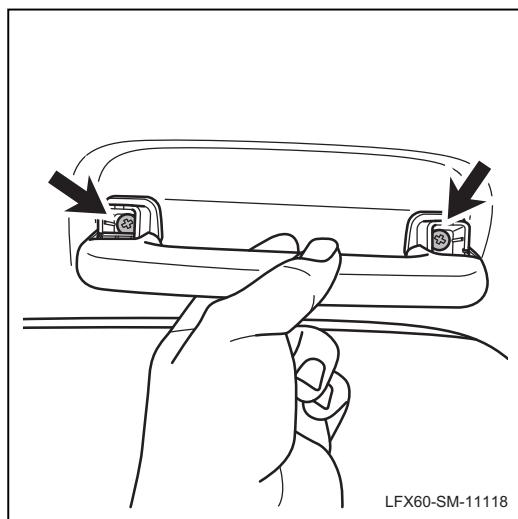
11-1483



## Replacement of safety handhold

### Removal

#### 1. Remove the safety handhold.



- (a). Remove the fixing bolt cover of safety handhold.
- (b). Remove fixing bolts for safety handle.
- (c). Take off the safety handhold.

### Installation

#### 1. Install the safety handhold.

- (a). The installation sequence is the reverse of the disassembly order.



شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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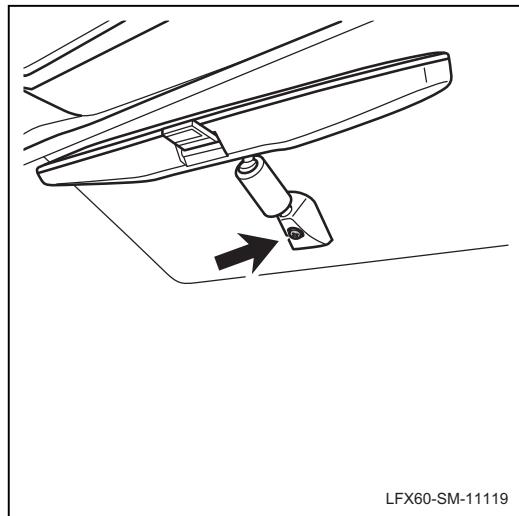
Interior trim



## Replacement of interior rearview mirror

### Removal

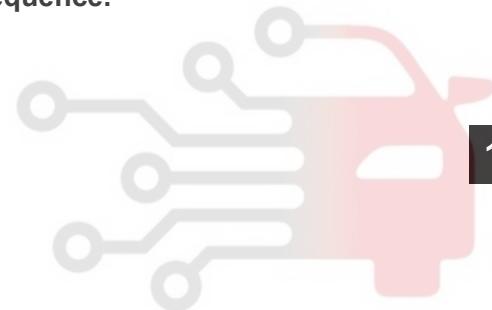
#### 1. Remove the interior rearview mirror



- (a). Remove the fixing screw of the rearview mirror and take off the rearview mirror.

### Installation

#### 1. The installation sequence is reverse to the removal sequence.



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11

11-1485

## Replacement of carpet inside the vehicle

### Removal

1. Remove the front carpet inside the vehicle.
  - (a). Disconnect the battery negative connector.
  - (b). Remove the front seat, refer to: **Replacement of the front seat assembly**.
  - (c). Remove the rear seat, refer to: **Replacement of the rear seat assembly**.
  - (d). Remove the front and rear door sill trim panel, refer to: **Replacement of the door sill trim panel**.
  - (e). Remove the left and right lower trim panel of B-pillar, refer to: **Replacement of the lower trim panel of B-pillar**.
  - (f). Remove the left and right lower trim panel of A-pillar, refer to: **Replacement of the lower trim panel of A-pillar**.
  - (g). Remove the sub-dashboard, refer to: **Replacement of the console assembly**.
- (h). Disconnect the shielded harness plug and clip, use scissors to cut the edges and corners.
- (i). Remove the fixing clip of carpet clip and take off the carpet assembly.



### Installation

1. Install the front carpet inside the vehicle.
  - (a). The installation sequence is the reverse of the disassembly order.

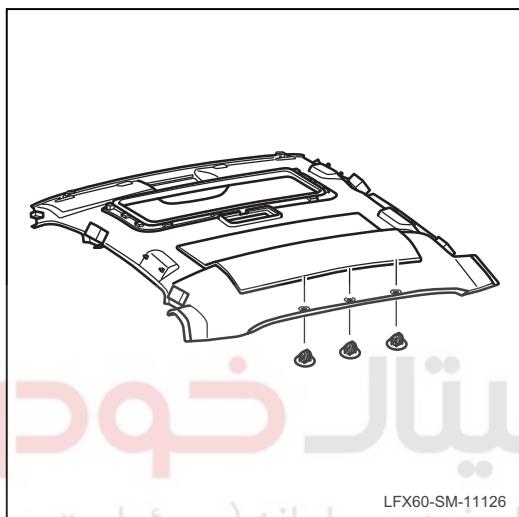
Interior trim



## Replacement of the inner trim of roof

### Removal

1. Remove the front inner trim of roof.
- (a). Remove the left and right upper trim panel of A-pillar, refer to:Replacement of the upper trim panel of A-pillar.
- (b). Remove the left and right upper trim panel of B-pillar, refer to:Replacement of the upper trim panel of B-pillar.
- (c). Remove the left and right sun visor, reference:Replacement of sun visor.
- (d). Remove the rearview mirror, refer to:the replacement of the rearview mirror.
- (e). Remove the front interior lights, refer to:Replacement of the front interior lights.
- (f). Remove the safety handhold, refer to:Replacement of safety handhold



- (g). Remove the plastic clip of the inner trim of roof.
- (h). With the help of the assistant, remove the inner trim of roof from the inside of the vehicle.

### Installation

1. Install the front inner trim of roof.

- (a). The installation sequence is the reverse of the disassembly order.

**Note:**

Before Installing plastic clamp, be sure to sort out roof wiring to prevent it from being pressed in the roof.

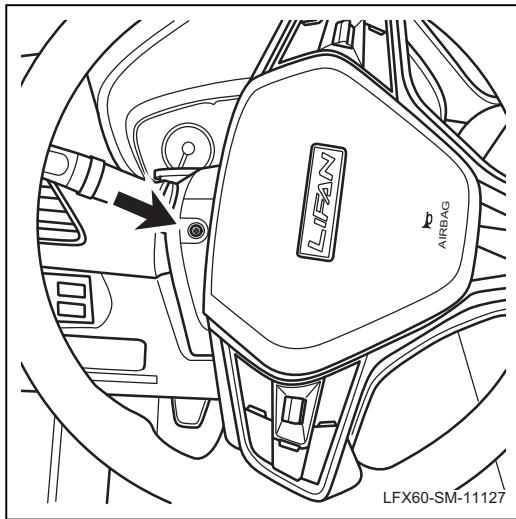




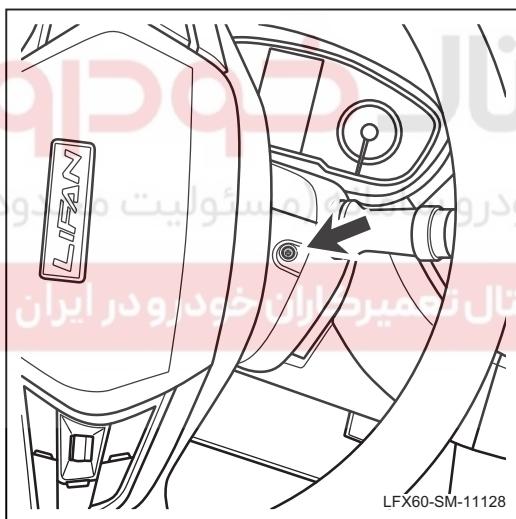
## Replacement of Steering Column Cover

### Removal

#### 1. Remove the steering column cover.



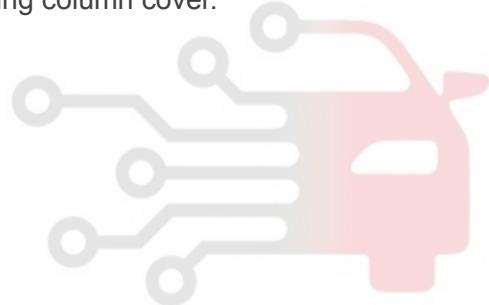
(a). Turn the steering wheel and remove the left side fixing screw of steering column cover.



(b). Turn the steering wheel and remove the right side fixing screw of steering column cover.



(c). Remove the fixing screw of the lower cover of steering column.  
 (d). Remove the upper and lower cover of steering column, respectively.



Interior trim

**Installation****1. Install the steering column cover.**

(a). The installation sequence is the reverse of the disassembly order.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



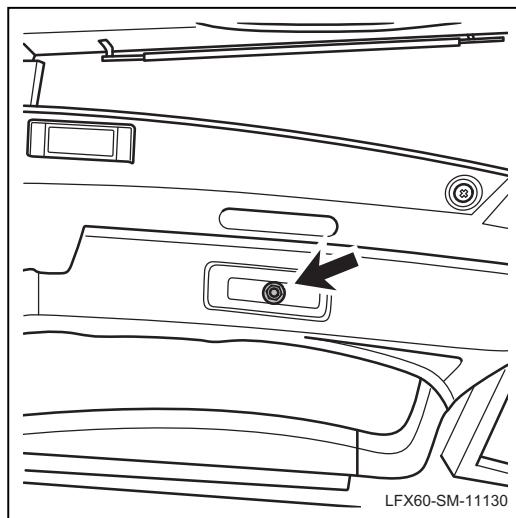
11

11-1489

## Replacement of the back door trim panel

### Removal

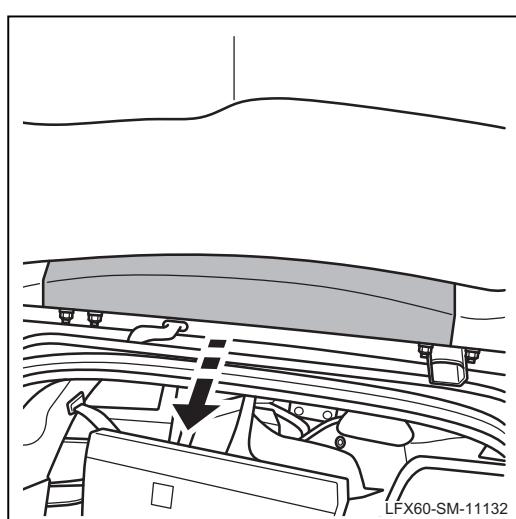
#### 1. Remove the back door trim panel.



(a). Remove the fixing bolts of the back door trim panel.



(b). Remove the fixing bolts of the back door trim panel, and remove the back door trim panel.



(c). Remove the back door upper panel.  
 (d). Remove the fixing bolts of the left and right panel of back door.  
 (e). Take off the left and right panel of back door.

Interior trim



### Installation

#### 1. Install the back door trim panel.

(a). The installation sequence is the reverse of the disassembly order.

#### ● Note:

During the installation, ensure to install the trim board buckle in position.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

11-1491



- Memo -

# دیجیتال خودرو

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Exterior trim



## Exterior trim

### Precautions

#### Precautions

1. Do not remove the interior trim board with the sharp tool. Instead, cover the tool with the cloth when removing the board.
2. If the harness plug should be removed, disconnect the battery negative terminal first.
3. Before the repair, fit the protective sheath over the seats and steering wheel.
4. Do not pull the harness while disconnecting the system component plug so as to prevent damaging the harness.
5. Remove the interior and exterior trims system components. Use the special tools.
6. During the removal of interior and exterior trim system components, if it is difficult to remove, do not take down the component forcedly. Check for buckle or screw omission before operating.
7. Avoid the oil or chemicals contacting the interior trims or exterior trims so as to prevent the corrosion.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11

11-1495



Exterior trim

## Preparation

### General maintenance tools

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11-1496

Exterior trim

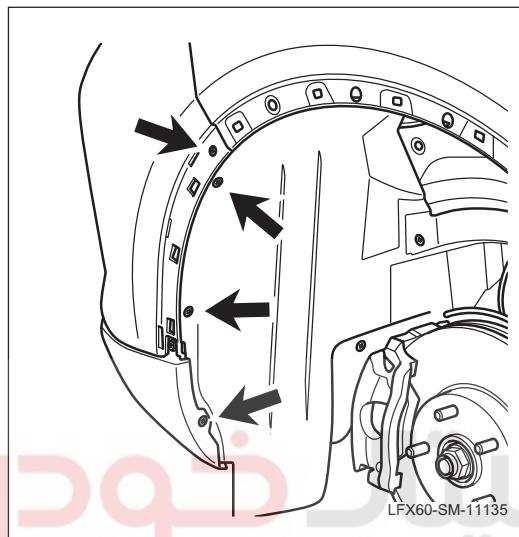


## Removal and installation

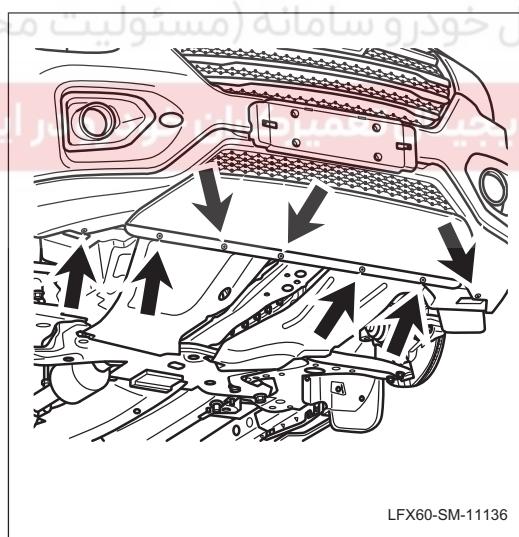
### Replace the front bumper assembly

#### 1. Remove the front bumper assembly.

- Disconnect the battery negative connector. Disconnect the battery negative connector.
- Lift the vehicle. Refer to the vehicle lift and support.
- Remove the wheel. Refer to the replacement of tire.
- Disassemble front wheel eyebrow assembly by referring to replacement of the front wheel eyebrow.



(e). Dissassemble plastic fixing screws in front of front wheel covers on both sides.



(f). Disassemble fixing screws under the front bumper.

11

شکننده

دیجیتال

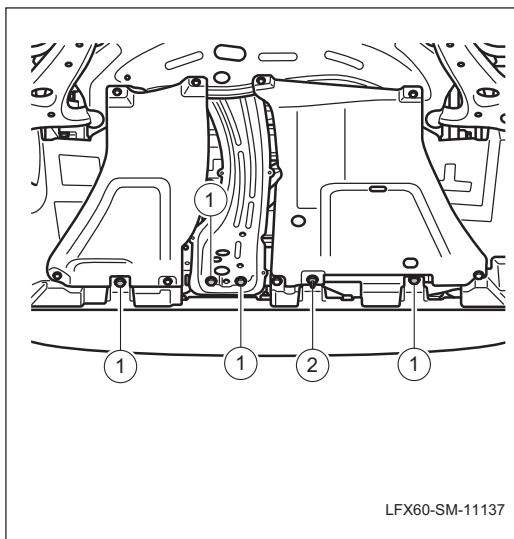
خودرو سامانه

(مستوفیت محدود)

اولین سامانه

دیجیتال خودرو

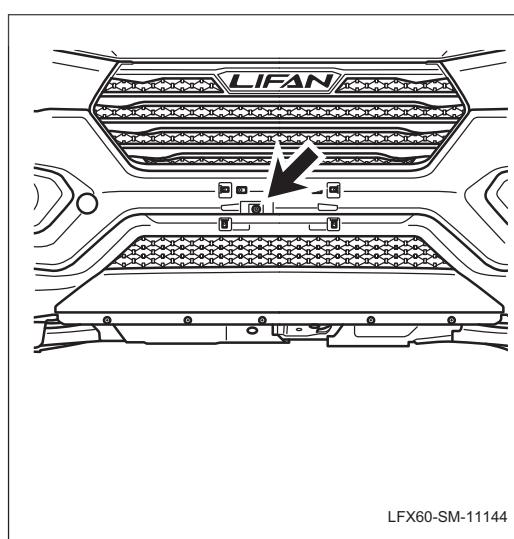
سازمان ایران



- (g). Dissassemble fixing bolt 1 under the front bumper.
- (h). Dissassemble fixing nut 2 under the front bumper.



- (i). Disassemble fixing bolts and screws above the front bumper.
- (j). Disassemble the front license plate frame.



- (k). Disassemble fixing bolts at the bottom of the license plate frame of the front bumper .
- (l). Remove the assembly of the front bumper and disconnect harness plug of the front fog light and front reserve sensor.

### Installation

#### 1. Install assembly of the front bumper.

- (a). The installation sequence is the reverse of the disassembly order.

Exterior trim

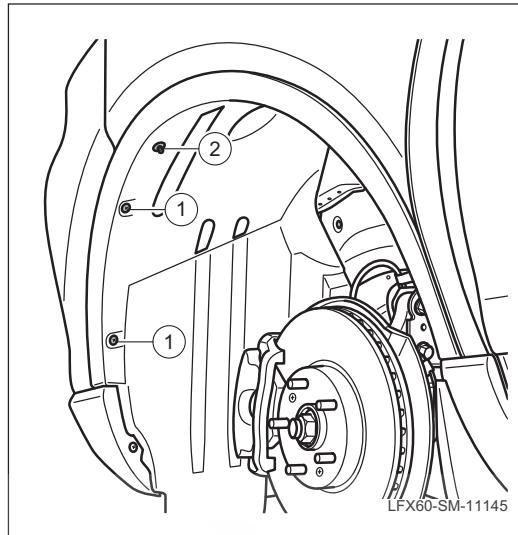


## Replace the front wheel eyebrow

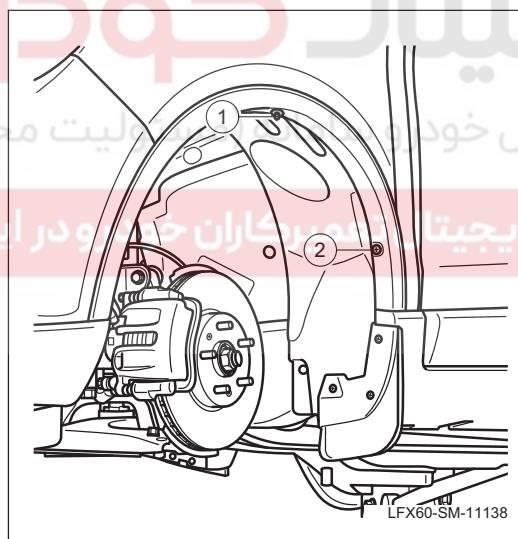
### Removal

#### 1. Disassemble the assembly of the front wheel eyebrow.

- (a). Lift the vehicle. Refer to the vehicle lift and support.
- (b). Remove the wheel. Refer to the replacement of tire.



- (c). Disassemble the fixing screw 1 and fixing fastener 2 of the front wheel eyebrow.



- (d). Disassemble the fixing screw 2 and fixing fastener 1 of the front wheel eyebrow.
- (e). Remove assembly of the front wheel eyebrow.

### Installation

#### 1. Install the front wheel trim assembly.

- (a). The installation sequence is the reverse of the disassembly order.

#### **Note:**

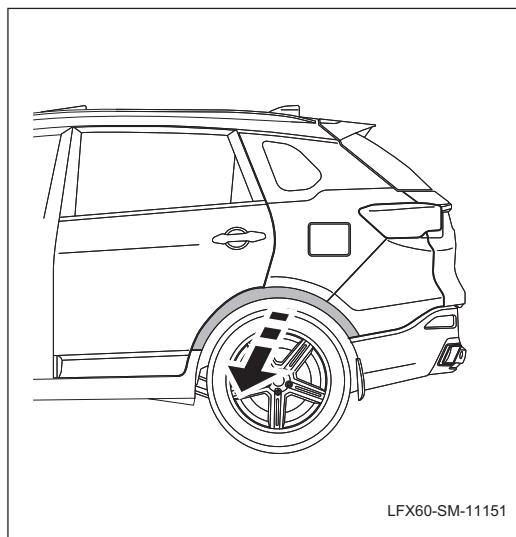
During the installation, ensure to install the buckle in position.



## Replace the rear wheel eyebrow

### Removal

#### 1. Disassemble the assembly of the rear wheel eyebrow.



(a). Disassemble the rear wheel eyebrow by using a proper tool.

### Installation

#### 1. Install the front wheel trim assembly.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the buckle in position.

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



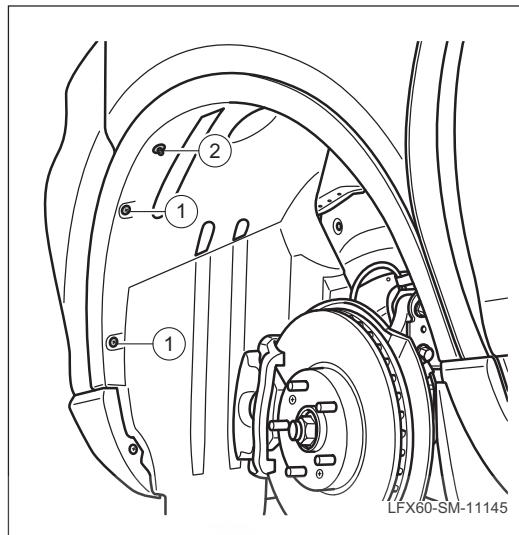
Exterior trim



## Replace the dashboard

### Removal

1. **Disassemble the dashboard.**
- (a). Lift the vehicle. **Refer to the vehicle lift and support.**
- (b). Remove the wheel. **Refer to the replacement of tire.**



- (c). Disassemble fixing screws of the dashboard.
- (d). Remove a dashboard.

### Installation

1. **Install a front dashboard.**
- (a). The installation sequence is the reverse of the disassembly order.

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

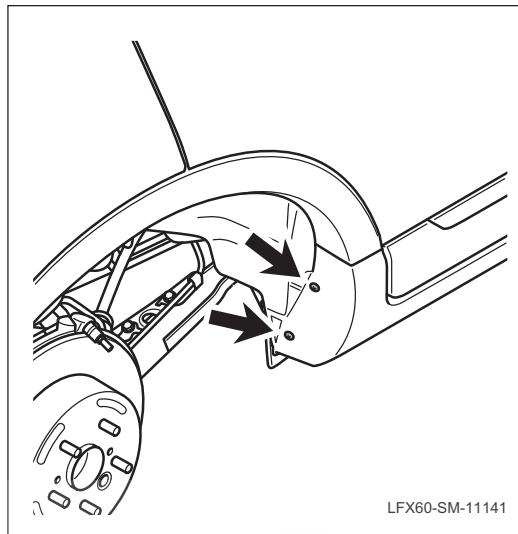


Replace the side skirtboard

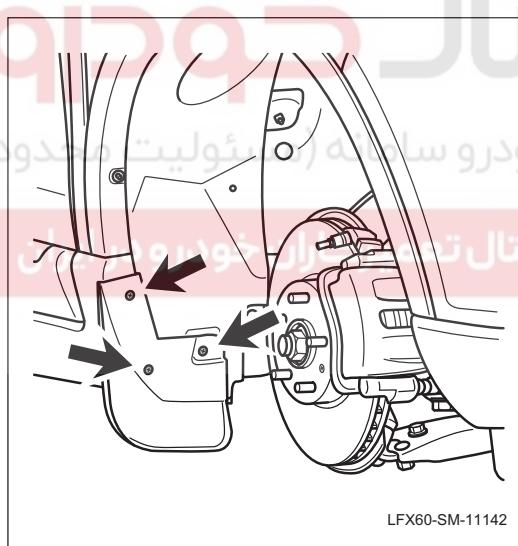
### Removal

#### 1. Disassemble the side skirtboard.

- (a). Lift the vehicle. Refer to the vehicle lift and support.
- (b). Remove the wheel. Refer to the replacement of tire.



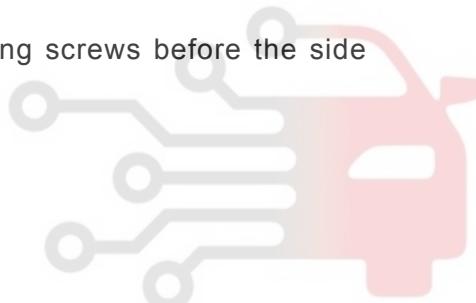
- (c). Disassemble fixing screws behind the side skirtboard.



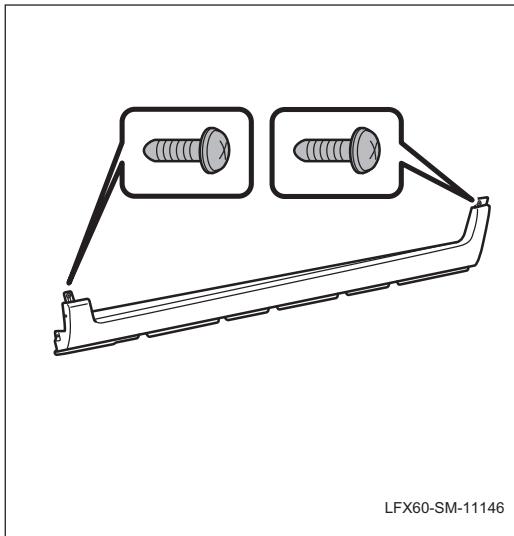
- (d). Disassemble fixing screws before the side skirtboard.

شرکت دیجیتال خودرو سامانه (سیستمیت خودرو)

اولین سامانه دیجیتال تعمیر خودرو ایران

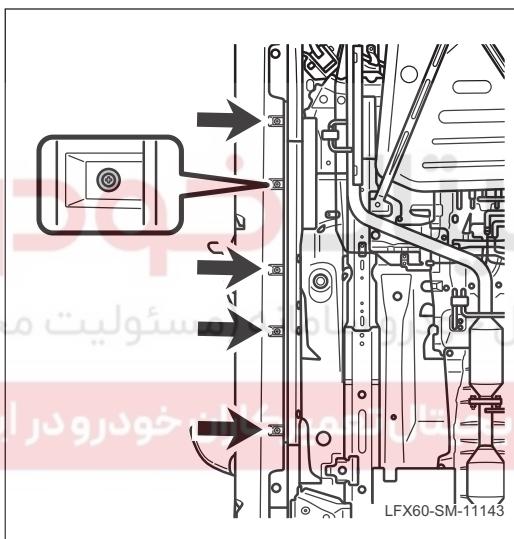


Exterior trim

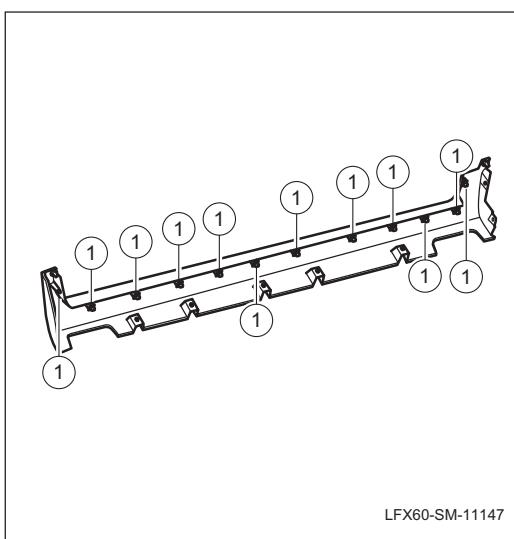
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(e). For how to disassemble the wheel eyebrow assembly, refer to replacement of the wheel eyebrow assembly.

(f). Disassemble fixing screws on both sides of the side skirtboard.



(g). Disassemble fixing screws at the bottom of the side skirtboard.



(h). Dissasemble the fixing fastener 1 of the side skirtboard by using a proper tool.

(i). Remove a side skirtboard.



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Exterior trim

## Installation

### 1. Install the side skirtboard.

(a). The installation sequence is the reverse of the disassembly order.

#### **➊ Note:**

During the installation, ensure to install the buckle in position.

# دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



11-1504

Exterior trim

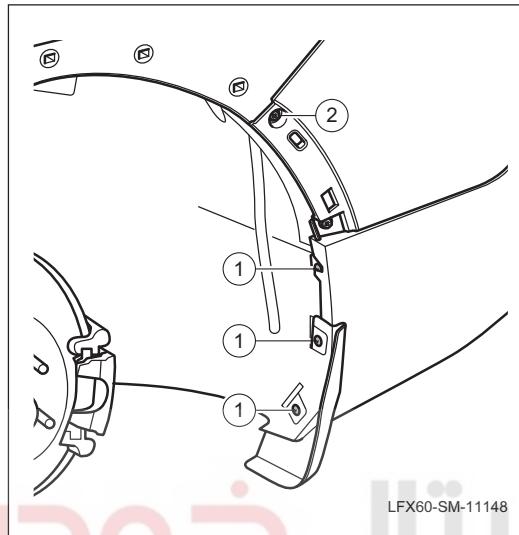


## Replace the rear bumper assembly

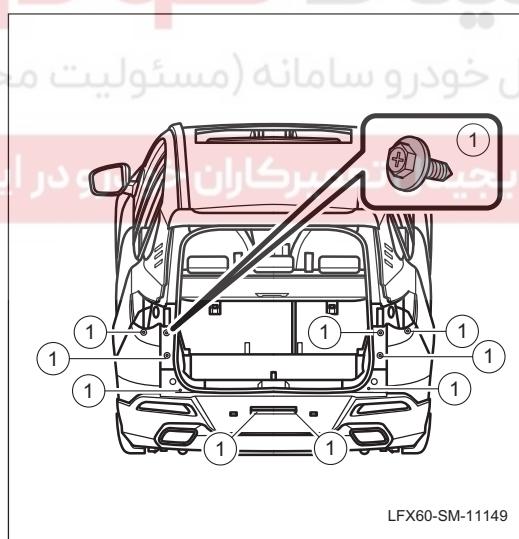
### Removal

#### 1. Remove the rear bumper assembly.

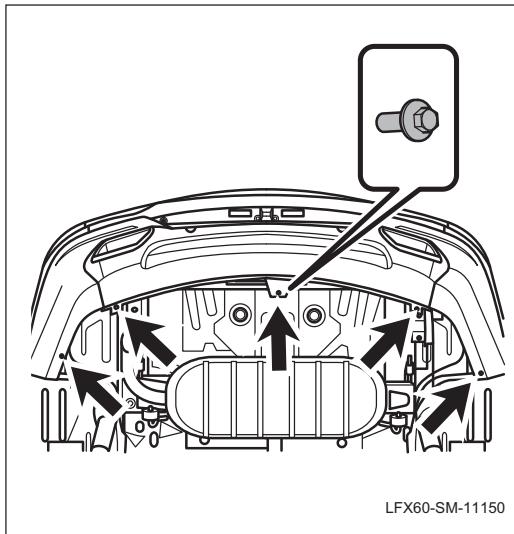
- Lift the vehicle. Refer to the vehicle lift and support.
- Remove the wheel. Refer to the replacement of tire.
- For how to disassemble the wheel eyebrow, refer to replacement of the wheel eyebrow assembly.



(d). Disassemble the fixing screw 1 and fixing bolt 2 on left and right side of the rear bumper.



(e). For how to disassemble the rear combined lights, refer to replacement of the rear combined light.  
(f). Disassemble the fixing screw 1 of the rear bumper.



- (g). Disassemble five fixing bolts at the bottom of the rear bumper.
- (h). Disconnect the harness plug of the rear fog light and reverse sensor.
- (i). Remove assembly of the rear bumper.

### Installation

#### 1. Install assembly of the rear bumper.

(a). The installation sequence is the reverse of the disassembly order.

**Note:**

During the installation, ensure to install the buckle in position.



شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

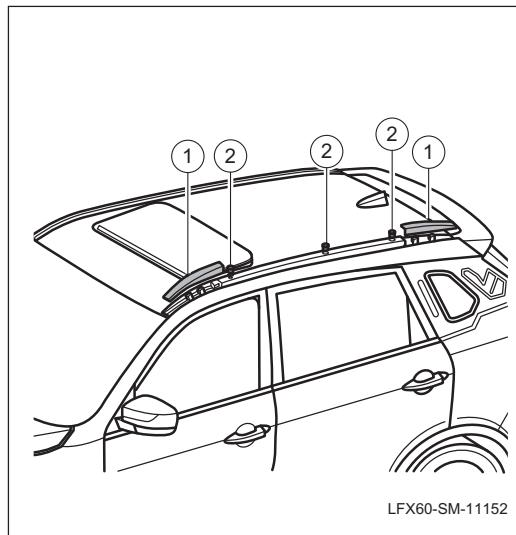
Exterior trim

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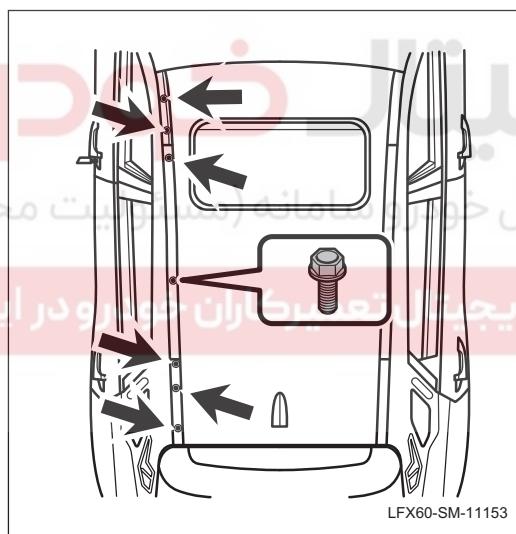
### Replace the luggage carrier assembly

#### Removal

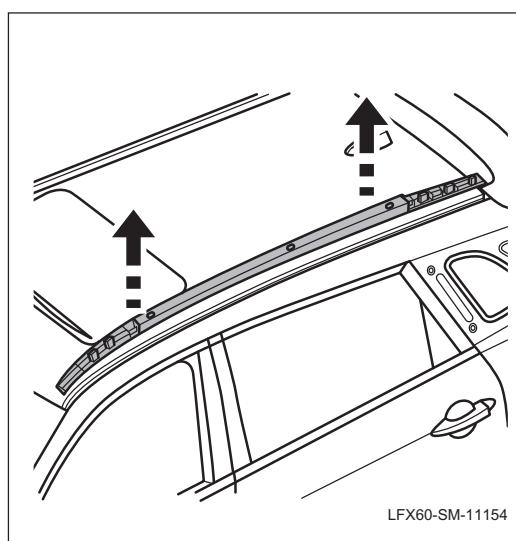
##### 1. Remove the luggage carrier assembly.



(a). Remove the decorative board 1 and decorative cover 2 on the luggage carrier.



(b). Disassemble fixing bolts of the luggage carrier assembly.



(c). Remove the luggage carrier assembly.



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Exterior trim

## Installation

- 1. Install the luggage carrier assembly.**  
(a) The installation sequence is the reverse of the disassembly order.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



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