

09 - safety protection device

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Seatbelt

Technical specifications

Torque Specifications

Name	Torque range	
	Metric (Nm)	British (lb-ft)
Fixing bolt of the front seat belt height adjuster	45	33
Fixing bolts for front seat belt retractor / rear seat belt	45	33
Fixing bolts for back seat belt / rear seat belt retractor	45	33
Rear middle seat belt retractor	45	33

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Precautions

Precautions

1. Change seatbelt with worn or split webbing and dysfunctional buckle.
2. After collision evolving tension on seatbelt, change the seatbelt, even there is no damage found on it.
3. It is forbidden to insert anything into the buckle. Never modify or remove the seatbelt.
4. Mild detergent should be used to clean dirty seatbelt. Corrosive detergent, dye and dry cleaning agent may impair strength of seatbelt seriously.
5. If the webbing of seatbelt is worn, split or floppy due to chemical or sunshine, it must be changed.
6. If metal joint of seatbelt deformed, distorted or rusted, it must be changed.
7. Performance requirement of the retractor: rewind freely in installed orientation.
8. Performance requirement of the adjuster: easy adjustment, hold webbing of seatbelt tightly and reliable.
9. Performance requirement of the buckle lock: obvious feeling of insertion and release, no self release. The system should not be failure.



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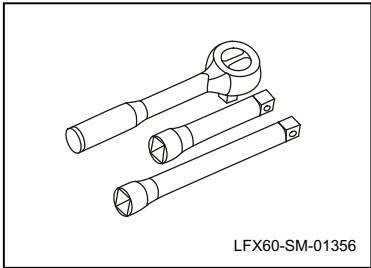
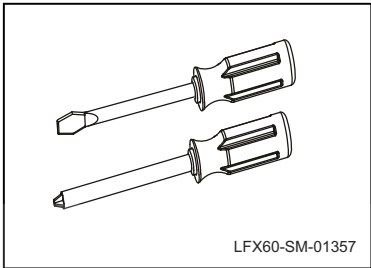
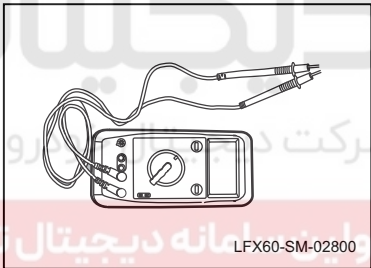
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Seatbelt



Preparation

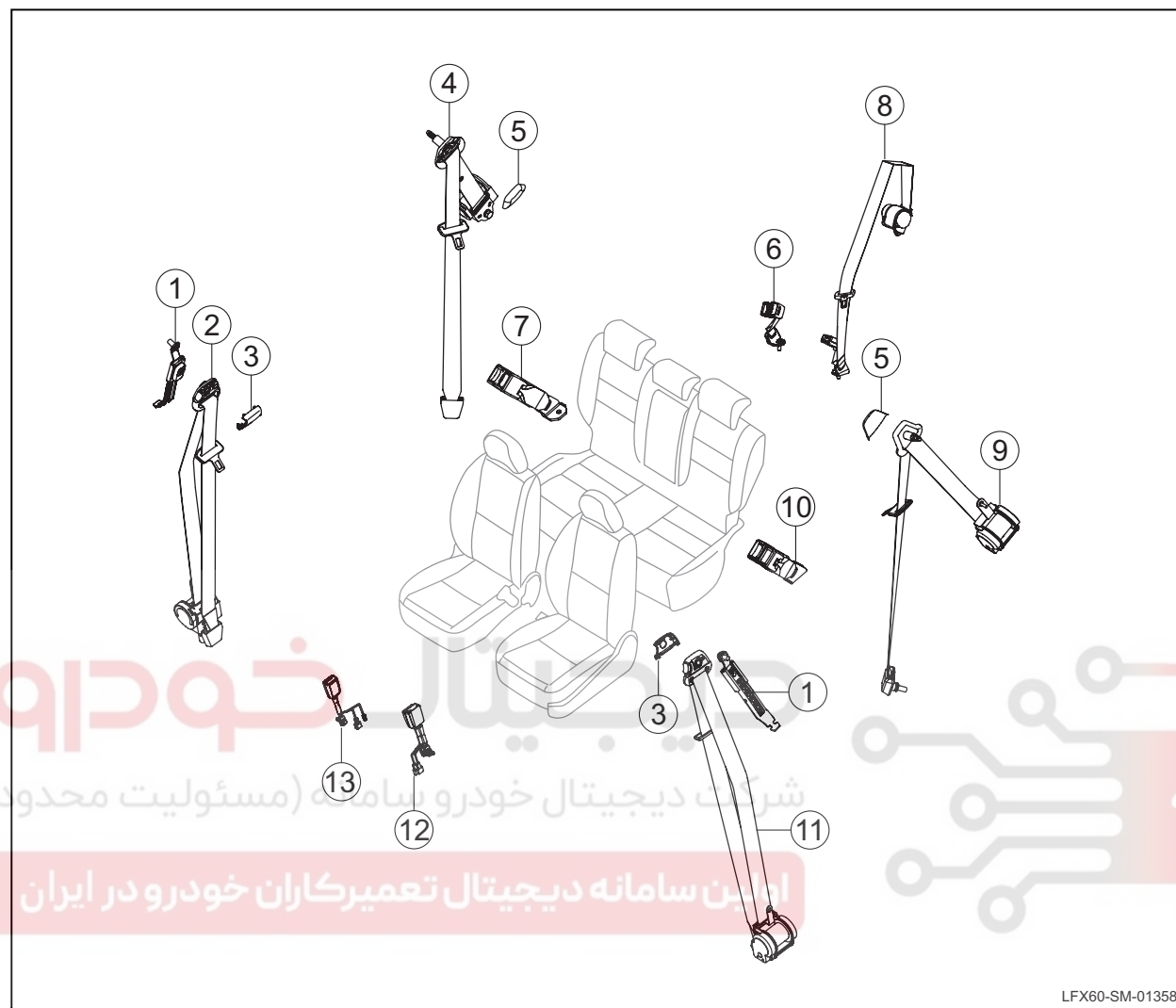
General service tool

No.	Tool name	Tool drawing	Tooling code	Remarks
1	Fast wrench and hedger	 <p>LFX60-SM-01356</p>	-	Tighten or remove bolts and nuts
2	Screwdriver	 <p>LFX60-SM-01357</p>	-	To remove and install the screw and pry the snap ring etc.
3	Digital multimeter	 <p>LFX60-SM-02800</p>	-	Measure the voltage and resistance

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Structure and installation location

Part exploded view



LFX60-SM-01358

No.	Part name
1	Front seat belt height adjustment device
2	Right front seatbelt retractor
3	Front seat belt ring cover
4	Right rear seatbelt retractor
5	Rear seat belt ring cover
6	Rear middle lock
7	Right rear harness

No.	Part name
8	Rear middle retractor
9	Left rear seatbelt retractor
10	Left rear seatbelt buckle
11	Left front seatbelt retractor
12	Left front seatbelt buckle
13	Right front seatbelt buckle

General Inspection

Seat belt inspection

1. Contraction is not normal

If the seat belt does not retract properly, check that if the anchor cover and the mounting plate are properly installed and do not rub against the seat belt. If necessary, make sure that the seat belt does not rub against one end of the retractor cover groove. If necessary, adjust the retractor to place the seat belt in a central position by loosening the fixing bolt and retighten the bolt.

2. Simple test

When the vehicle is stationary and parked on a flat road surface, tightly grasp the seat belt and pulling it out quickly. The retractor must be locked within 25 cm to prevent more of the belt from coming out. In this test, any seat belt retractor from which the belt is pulled out can not be reused, and a new seat belt must be installed.

Seat belt buckle inspection

1. Insert the seat belt into the buckle and pull the seat belt firmly to make sure that the buckle does not release.
2. Remove the driver seat belt buckle, observe the seat belt warning light status on dashboard, and confirm the display is normal.

Front seat belt height adjuster inspection

1. Adjust the front seat belt height adjuster, seat belt height adjuster should be free to adjust, no jamming phenomenon.
2. Check that the seat belt height adjuster can be reliably adjusted in a position that does not slide.





Operating Principle

System overview

⚠Warning:

The vehicle is equipped with a safety device, such that failure to follow the correct operating procedures will lead to the following

- The airbag unexpectedly deploys.
- The safety device is disabled when necessary.

⚠Warning:

Strictly observe the following rules to prevent the above conditions:

- Before proceeding, make sure that if you are servicing on the safety device parts, around them, or on their lines.
- If you are performing maintenance on a safety device assembly, around it, or on its line, remove the safety device.

The seat belt is a safety protection device that protects the driver and the passenger, in conjunction with the airbag. The airbag cannot substitute the belt. The driver and passenger must always be fastened with the seat belt and adjust to the most appropriate condition according to the body.

Seatbelt

A three-point and crossing safety belt is used in all seats. The front seat belt retractor is mounted on the bottom of the B-pillar and incorporates a torsion bar load limiting device. This device consists of a (torsion bar) retractor rolling bar mounted on a pivot. Once the sensor locks the retractor slider and the preset load is activated, it will reverse and release additional seat belt.

Seat belt buckle

The seat belt buckle, together with the seat belt, forms a passenger protection device. The driver's seat belt buckle is internally integrated with a seat belt warning light switch. When the driver is not buckled up in the process of driving, the seat belt warning light on the dashboard will continue to light up, to remind the driver of the seat belt for the protection the driver's driving safety.

Seat belt height adjuster

The front seat belt is equipped with a seat belt height adjuster, and the occupant can adjust the seat belt height by adjusting the seat belt height adjuster according to the body shape. Make occupants more comfortable in the use of seat belts, but also better protect the safety of occupants.



Diagnostic Information and Procedures

Diagnosis Instructions

Before the diagnose of the seat belt system, familiarize yourself with the working principle of the seatbelt system, and then start the seat belt system diagnostics, which helps not only to determine the correct troubleshooting step in the event of a failure, and more importantly Any troubleshooting of the seat belt system should take the seat belt system check as a starting point and instruct the service personnel to take the next logical step to troubleshoot.

Determine the condition described by the customer is normal or not. Understanding and using the diagnostic flowchart correctly reduces diagnostic time and avoids misjudgment of components.

General equipment

Name
Diagnostic equipment of vehicle
Digital multimeter

Visual Inspection

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

Visual check table

Mechanical	Electrical
<ul style="list-style-type: none"> • Belt retractor • Belt buckle 	<ul style="list-style-type: none"> • Fuse • Line • Harness connector • Instrument cluster • Occupant detecting sensor

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.



List of fault symptoms

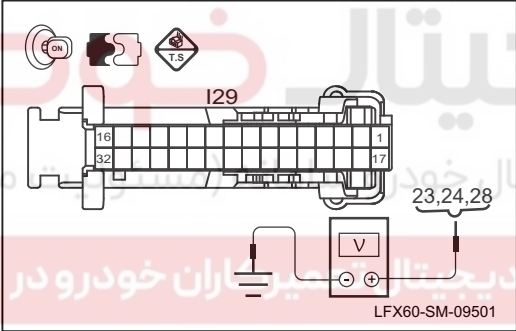
If the fault occurs but the fault diagnosis code (DTC) is not stored in the control module and the fault can not be confirmed in the basic inspection, the fault diagnosis and troubleshooting should be performed according to the order listed in the table below.

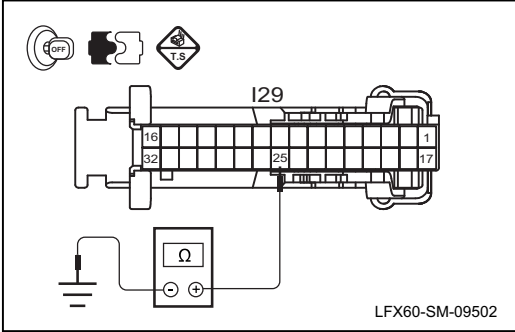
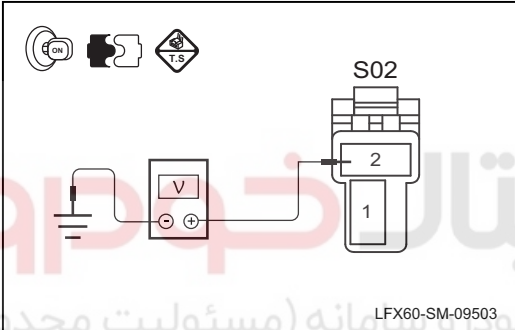
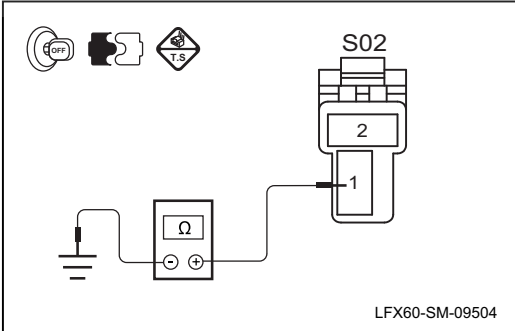
Symptom	Possible point of failure	Recommended Measures
The seat belt can not be retracted	<ul style="list-style-type: none"> Belt retractor 	<ul style="list-style-type: none"> Replace the belt assembly
The seat belt can not be locked	<ul style="list-style-type: none"> Belt retractor 	<ul style="list-style-type: none"> Replace the belt assembly
Seat belt buckle out of function, buckle off	<ul style="list-style-type: none"> Belt buckle 	<ul style="list-style-type: none"> Replace the seat belt buckle
The driver's seat belt warning light does not light up	<ul style="list-style-type: none"> Line Harness connector Belt buckle Instrument cluster 	Refer to: The diagnostic process for the driver's seat belt warning light does not light up
The driver's seat belt safety warning light keeps on	<ul style="list-style-type: none"> Line Belt buckle Instrument cluster 	Refer to: The diagnostic process for the driver's seat belt warning light keeps on
The passenger's seat belt warning light does not light up	<ul style="list-style-type: none"> Line Harness connector Belt buckle Instrument cluster Occupant detecting sensor 	Refer to: The diagnostic process for the passenger's seat belt warning light does not light up
The passenger's seat belt safety warning light keeps on	<ul style="list-style-type: none"> Line Belt buckle Instrument cluster Occupant detecting sensor 	Refer to: The diagnostic process for the passenger's seat belt warning light keeps on

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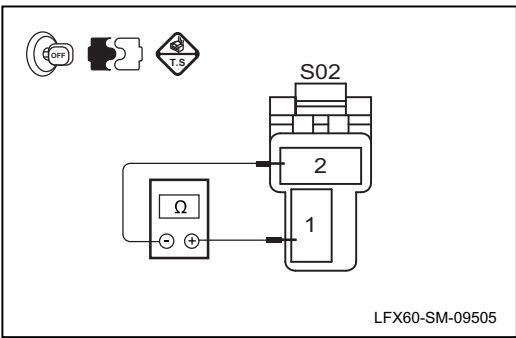
The diagnostic process for the driver's seat belt warning light does not light up

Test condition	Details/results/measures
1. General inspection.	
	<p>A. Check the instrument cluster harness plugs for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To step 2. →No Repair the fault position.</p>
2. Check the instrument cluster fuse.	
	<p>A. Check the instrument cluster fuse FS01, FS06, FS14. Fuse rated capacity: FS01 (10A), FS06 (20A), FS14 (10A) Is the system normal? →Yes To step 3. →No Replace the fuse of same model.</p>
3. Check the instrument cluster power.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the instrument cluster harness plug I29. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the instrument cluster harness plug I29 terminal 23, 24 28 and the fixed ground point with the multimeter. Standard voltage: 11 ~ 14 V Is it OK after checking? →Yes To step 4. →No Repair the instrument cluster power line open circuit fault and replace the harness if necessary.</p>

Test condition	Details/results/measures
4. Check the instrument cluster ground wire.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the instrument cluster harness plug I29.</p> <p>C. Measure the resistance between No. 25 terminal of the harness plug I29 of the instrument cluster and the reliable grounding with a multimeter.</p> <p>Standard resistance: less than 5 Ω</p> <p>Is it OK after checking?</p> <p>→Yes To step 5.</p> <p>→No Check the wiring harness between the No. 25 terminal of the harness plug I29 and the ground point for open circuit fault, and replace the wiring harness if necessary.</p>
5. Check the power supply for driver's seat belt buckle.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the driver belt buckle harness plug S02.</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 terminal of the harness plug S02 of the driver's belt buckle and the ground point with a multimeter.</p> <p>Standard voltage: 11 ~ 14 V</p> <p>Is it OK after checking?</p> <p>→Yes To step 6.</p> <p>→No Check the circuits of the driver's belt buckle for open circuit fault, and replace the wiring harness if necessary.</p>
6. Check the grounding circuit for driver's seat belt buckle.	
	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the driver belt buckle harness plug S02.</p> <p>C. Measure the resistance between the No. 1 terminal of the harness plug S02 of the driver's belt buckle and the ground point with a multimeter.</p> <p>Standard resistance: less than 5 Ω</p> <p>Is it OK after checking?</p> <p>→Yes To step 7.</p> <p>→No Check the wiring harness between the No. 1 terminal of the harness plug S02 of the driver's belt buckle and the ground point for open circuit fault, and replace the wiring harness if necessary.</p>

Seatbelt



Test condition	Details/results/measures
7. Check the driver's belt buckle.	
	<p>A. Operate start switch to switch the power mode to "OFF" state, disconnect the negative connector of the battery.</p> <p>B. Disconnect the harness plug S02 of the seat belt buckle.</p> <p>C. Measure the resistance between the No. 1 and No. 2 terminal of the harness plug S02 of the belt buckle with a multimeter.</p> <p>Standard resistance: less than 1 Ω</p> <p>Is it OK after checking?</p> <p>→ Yes To step 8.</p> <p>→ No Replace the belt buckle. Refer to the replacement of front belt buckle</p>
8. Replace the instrument cluster.	
	<p>A. Replace the instrument cluster.</p> <p>Refer to the replacement of instrument cluster assembly</p> <p>Verify that the system is operated normally.</p>

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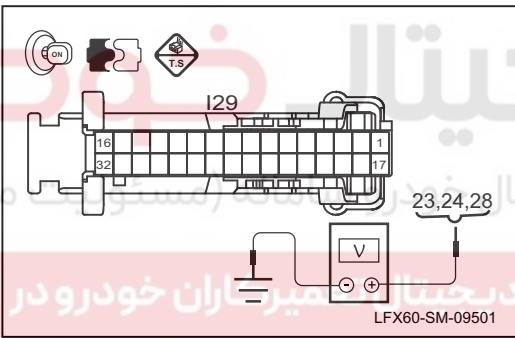
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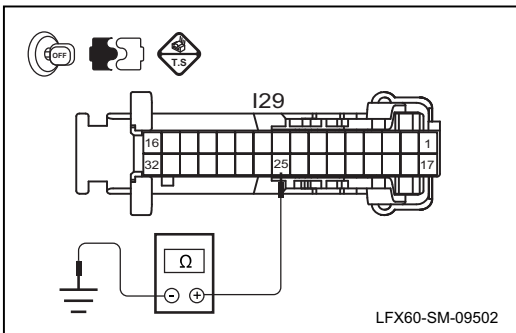
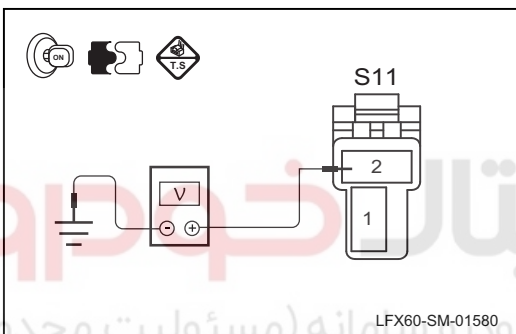
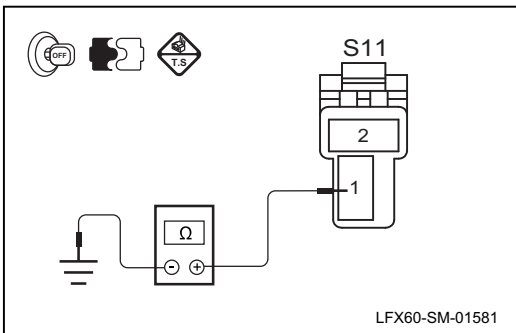


The diagnostic process for the driver's seat belt warning light keeps on

Test condition	Details/results/measures
1. Check if the driver's seat belt is buckled up.	<p>A. Check whether the belt is correctly fastened. Is the belt correctly fastened? →Yes To step 2. →No Fasten the belt and test whether the system is normal.</p>
2. Check the driver's belt buckle.	<p>A. Operate the start switch to set the power mode to the "OFF" state. B. Disconnect the driver belt buckle harness plug S02. C. Operate start switch to switch the power mode to "ON" state, observe for whether the seat belt warning light is off. Does the belt warning lamp turn off? →Yes Replace the belt buckle. Refer to the replacement of belt buckle →No To step 3.</p>
3. Check the signal cable of driver's seat belt warning light.	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the driver belt buckle harness plug S02. C. Measure the resistance between the No. 1 terminal of the harness plug S02 of the driver's belt buckle and the reliable ground point with a multimeter. Standard resistance: 10MΩ or higher Is it OK after checking? →Yes To step 4. →No Check the wiring harness between the No. 1 terminal of the harness plug S02 of the driver's belt buckle and the ground point for short circuit fault, and replace the wiring harness if necessary.</p>
4. Replace the instrument cluster.	<p>A. Replace the instrument cluster. Refer to the replacement of instrument cluster assembly Verify that the system is operated normally.</p>

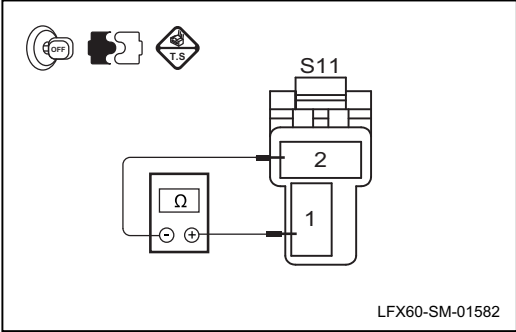
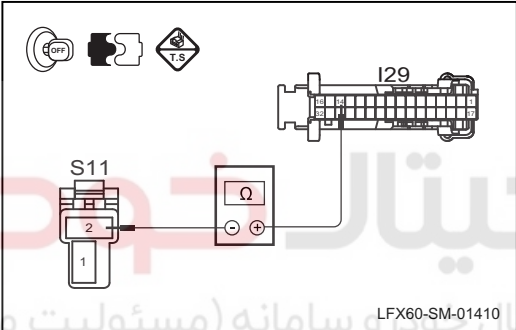
The diagnostic process for the passenger's seat belt warning light does not light up

Test condition	Details/results/measures
1. General inspection.	<p>A. Check the instrument cluster harness plugs for breakage, loose contact, aging or looseness. Is it OK after checking? →Yes To step 2. →No Examine and repair the fault location.</p>
2. Check the instrument cluster fuse.	<p>A. Check the instrument cluster fuse FS01, FS06, FS14. Fuse rated capacity: FS01 (10A), FS06 (20A), FS14 (10A) Is the system normal? →Yes To step 3. →No Replace the fuse of same model.</p>
3. Check the instrument cluster power.	<div data-bbox="220 936 737 1272">  </div> <p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the instrument cluster harness plug I29. C. Connect the battery negative terminal and operate the start switch to turn the power to ON state. D. Measure the voltage between the instrument cluster harness plug I29 terminal 23, 24 28 and the fixed ground point with the multimeter. Standard voltage: 11 ~ 14 V Is it OK after checking? →Yes To step 4. →No Repair the instrument cluster power line open circuit fault and replace the harness if necessary.</p>

Test condition	Details/results/measures
4. Check the instrument cluster ground wire.	
 <p>LFX60-SM-09502</p>	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the instrument cluster harness plug I29.</p> <p>C. Measure the resistance between No. 25 terminal of the harness plug I29 of the instrument cluster and the reliable grounding.</p> <p>Standard resistance: Less than 5 Ω</p> <p>Is it OK after checking?</p> <p>→Yes To step 5.</p> <p>→No Check the wiring harness between the No. 25 terminal of the harness plug I29 and the ground point for open circuit fault, and replace the wiring harness if necessary.</p>
5. Check the power supply for passenger's seat belt buckle.	
 <p>LFX60-SM-01580</p>	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the assistant driver belt buckle harness plug S11.</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. 2 terminal of the harness plug S11 of the passenger's belt buckle and the ground point with a multimeter.</p> <p>Standard voltage: 11 ~ 14 V</p> <p>Is it OK after checking?</p> <p>→Yes To step 6.</p> <p>→No Check the circuits of the passenger's belt buckle for open circuit fault, and replace the wiring harness if necessary.</p>
6. Check the grounding circuit for passenger's seat belt buckle.	
 <p>LFX60-SM-01581</p>	<p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the assistant driver belt buckle harness plug S11.</p> <p>C. Measure the resistance between the No. 1 terminal of the harness plug S11 of the passenger's belt buckle and the ground point with a multimeter.</p> <p>Standard resistance: less than 5 Ω</p> <p>Is it OK after checking?</p> <p>→Yes To step 7.</p> <p>→No Check the wiring harness between the No. 1 terminal and the ground point of the harness plug S11 of the passenger's belt buckle for open circuit fault, and replace the wiring harness if necessary.</p>

Seatbelt



Test condition	Details/results/measures
7. Check the assistant driver's belt buckle.	
	<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 belt buckle harness plug S11.</p> <p>C. Measure the resistance between the No.1 and No.2 terminal of the harness plug S11 of the passenger's belt buckle with a multimeter.</p> <p>Standard resistance: less than 1 Ω</p> <p>Is it OK after checking?</p> <p>→Yes To Step 8.</p> <p>→No Replace the belt buckle. Refer to: Replacement of front belt buckle</p>
8. Check the circuit of occupant detection sensor.	
	<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 belt buckle harness plug S11.</p> <p>C. Disconnect the instrument cluster harness plug I29.</p> <p>D. Measure the voltage between the No.2 terminal of the harness plug S11 of the passenger's belt buckle and the No.14 of I29 with a multimeter.</p> <p>Standard resistance: less than 5 Ω</p> <p>Is it OK after checking?</p> <p>→Yes To Step 9.</p> <p>→No Check the wiring harness between the No.2 terminal of the harness plug S11 of the passenger's belt buckle and the instrument cluster for open circuit fault, and replace the wiring harness if necessary.</p>
9. Check the occupant detecting sensor.	
	<p>A. Check whether the occupant detecting signal is normal.</p> <p>Standard value: less than 150Ω (with occupant detecting); if belt not fastened, signal lamp on; if belt fastened, signal lamp off.</p> <p>Standard value: more than 10kΩ (with occupant detecting), signal lamp off.</p> <p>Standard value: signal lamp off if no occupant detecting.</p> <p>Is it OK after checking?</p> <p>→Yes To Step 10.</p> <p>→No Replace the occupant detecting sensor.</p>



Seatbelt

Test condition	Details/results/measures
10. Replace the instrument cluster.	
	A. Replace the instrument cluster. Refer to: Replacement of instrument cluster assembly Verify that the system is operated normally.

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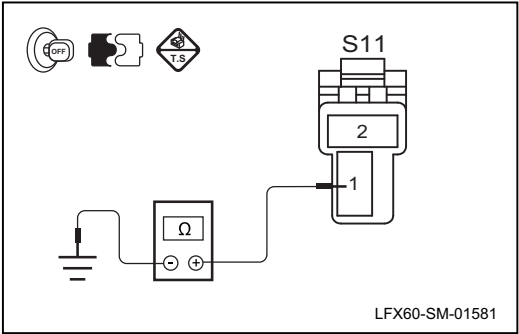
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The diagnostic process for the passenger's seat belt warning light keeps on

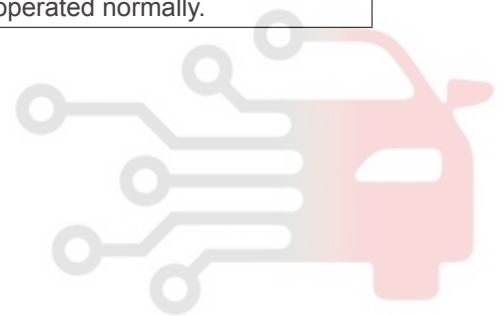
Test condition	Details/results/measures
1. Check if the passenger's seat belt is buckled up.	<p>A. Check whether the belt is correctly fastened. Is the belt correctly fastened? →Yes To Step 2. →No Fasten the belt and test whether the system is normal.</p>
2. Check the assistant driver's belt buckle.	<p>A. Operate the start switch to turn the power to OFF state. B. Disconnect the assistant driver belt buckle harness plug S11. C. Operate start switch to switch the power mode to "ON" state, observe for whether the seat belt warning light is off. Does the belt warning lamp turn off? →Yes Replace the belt buckle. Refer to: Replacement of belt buckle →No To Step 3.</p>
3. Check the occupant detecting sensor.	<p>A. Check whether the occupant detecting signal is normal. Standard value: less than 150Ω (with occupant detecting); if belt not fastened, signal lamp on; if belt fastened, signal lamp off. Standard value: more than 10kΩ (with occupant detecting), signal lamp off. Standard value: signal lamp off if no occupant detecting. Is it OK after checking? →Yes To Step 4. →No Replace the occupant detecting sensor.</p>

Test condition	Details/results/measures
4. Check the signal cable of passenger's seat belt warning light.	
	<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 belt buckle harness plug S11.</p> <p>C. Measure the resistance between the No.1 terminal of the harness plug S11 of the passenger's belt buckle and the reliable ground point with a multimeter.</p> <p>Standard resistance: 10MΩ or higher</p> <p>Is the resistance normal?</p> <p>→Yes To Step 5.</p> <p>→No Check the wiring harness between the No.1 terminal of the harness plug S11 of the passenger's belt buckle and the ground point for failure, and replace the wiring harness if necessary.</p>
5. Replace the instrument cluster.	
	<p>A. Replace the instrument cluster.</p> <p>Refer to: Replacement of instrument cluster assembly</p> <p>Verify that the system is operated normally.</p>

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Removal and Installation

Replacement of front seat belt buckle

Removal

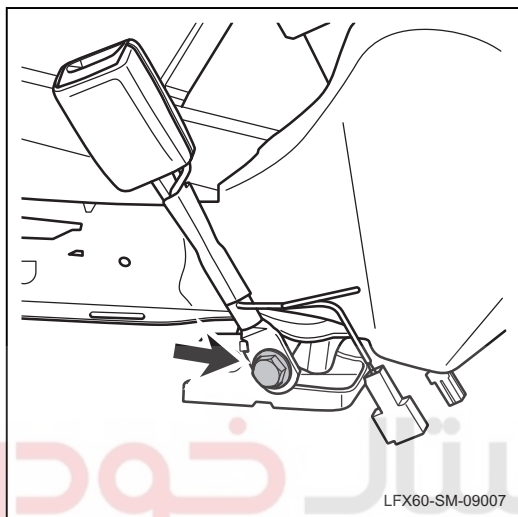
1. Remove the front seat belt buckle.

(a). Disconnect the battery negative connector.

ⓘNote:

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

(b). Remove the front seat assembly. **Refer to: Replacement of front row seat assembly.**



(c). Remove the fixing bolts of the front seat belt buckle.

(d). Take of the front seat belt buckle.

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Installation

1. Install the front seat belt buckle.

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

(b). Install the front seat assembly. **Refer to: Replacement of front row seat assembly.**

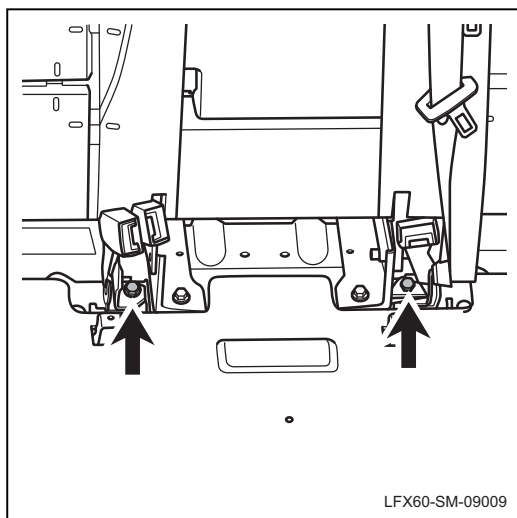


Replacement of rear seat belt buckle assembly

Removal

1. Remove the rear seat belt buckle assembly.

(a). Remove the rear seat cushion, **refer to: Replacement of the rear seat cushion.**



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

(c). Take off the rear seat belt buckle assembly.

Installation

1. Install the rear seat belt buckle assembly.

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

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Replacement of front seat belt assembly

Removal

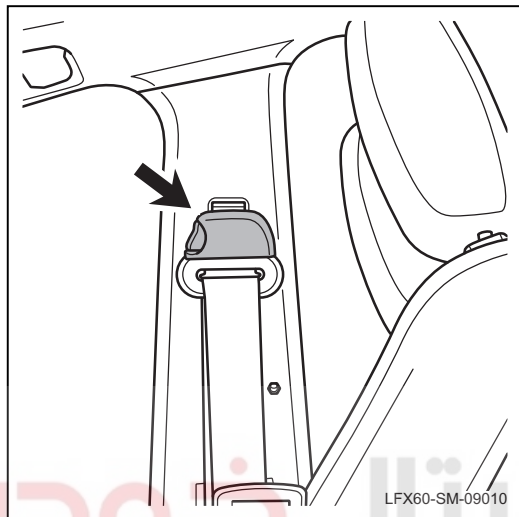
1. Remove the front seat belt assembly.

- (a). Disconnect the battery negative connector.

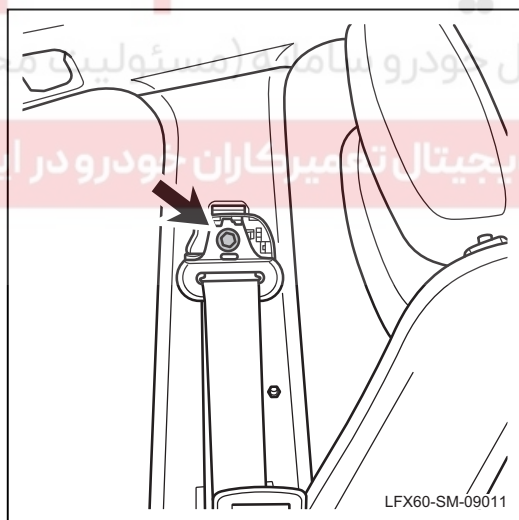
ⓘNote:

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

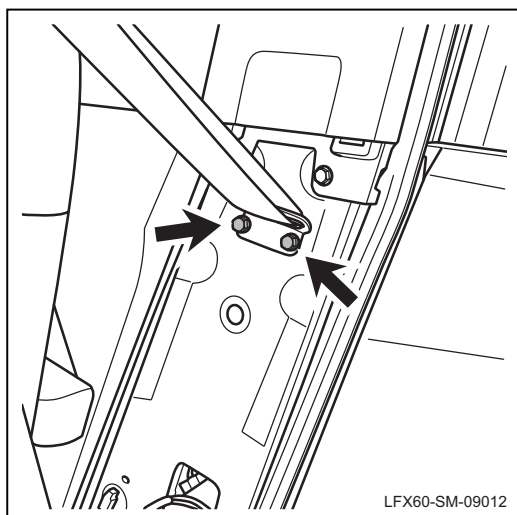
- (b). Remove the B pillar lower decorative panel. Refer to the replacement of B pillar lower decorative panel.



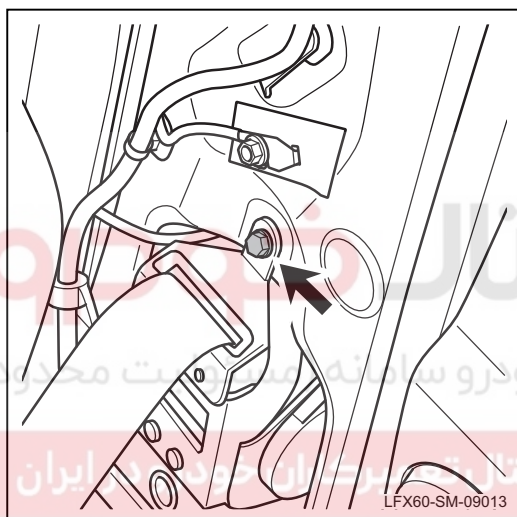
- (c). Remove the trim cover of fixing bolts of the front seat belt assembly.



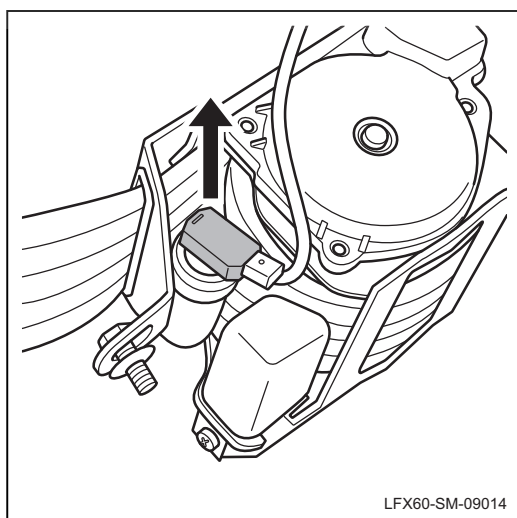
- (d). Remove the fixing bolts of the front seat belt assembly.



- (e). Remove the fixing bolts of stop collar for the front seat belt assembly.



- (f). Remove the fixing bolts of the front seat belt assembly.



- (g). Disconnect the harness plug of seat belt pretensioner.
(h). Take of the front seat belt assembly.

Installation

1. Install the front seat belt assembly.
 - (a). The installation sequence is the reverse of the disassembly order.
 - (b). Install the lower trim panel of B-pillar, **refer to: Replacement of the lower trim panel of B-pillar.**

دیجیتال خودرو

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09

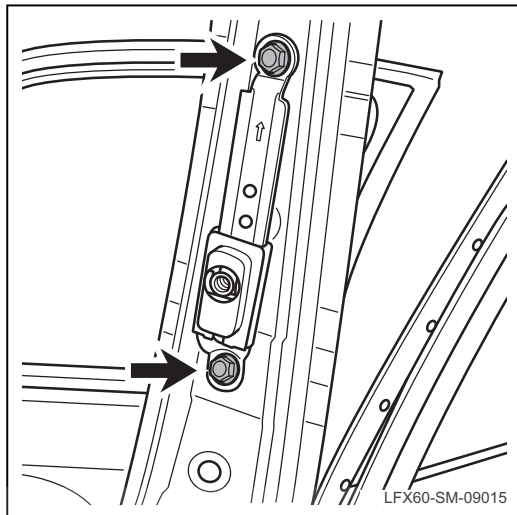


Replacement of front seat belt adjuster

Removal

1. Remove the front seat belt adjuster.

- (a). Remove the upper trim panel of B-pillar, **refer to: Replacement of the upper trim panel of B-pillar.**



- (b). Remove the fixing bolts of the front seat belt adjuster.
(c). Take off the front seat belt adjuster.

Installation

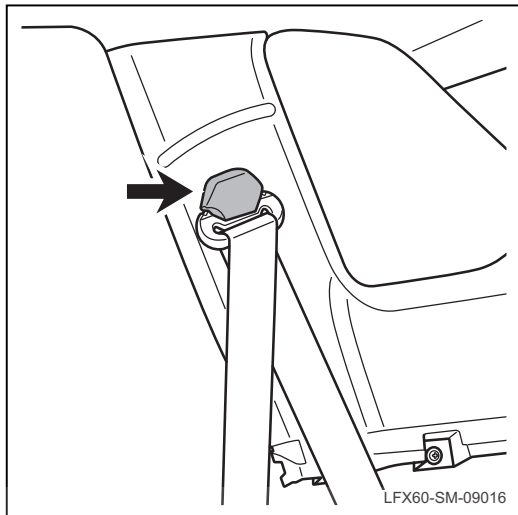
1. Install the front seat belt adjuster.

- (a). The installation sequence is the reverse of the disassembly order.
(b). Install the upper trim panel of B-pillar, **refer to: Replacement of the upper trim panel of B-pillar.**

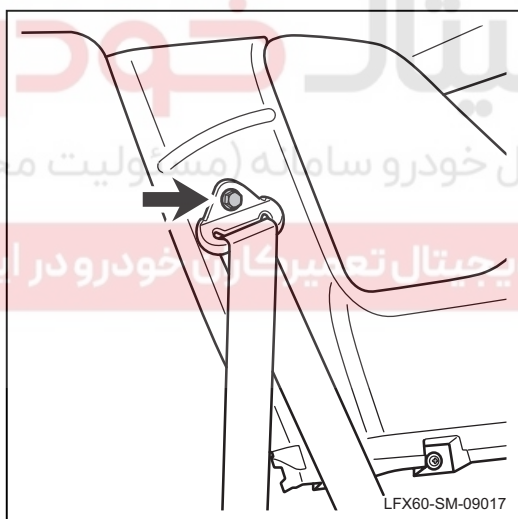
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Replacement of rear seat belt assembly**Removal****1. Remove the rear seat belt assembly.**

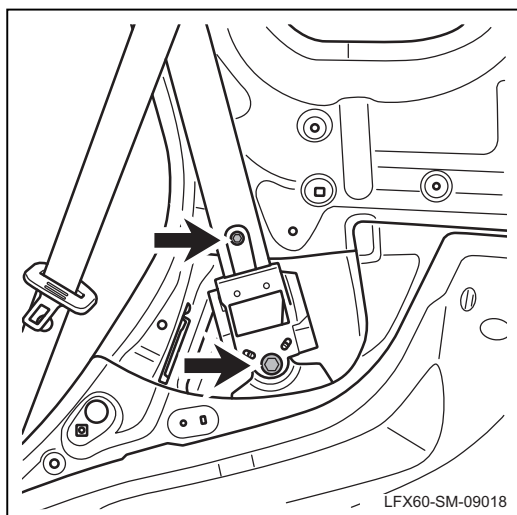
- (a). Remove the C pillar lower decorative panel. Refer to the replacement of C pillar lower decorative panel.



- (b). Remove the trim cover of fixing bolts of the seat belt.



- (c). Remove the fixing bolts of the seat belt.



- (d). Remove the fixing bolts of the seat belt retractor.
- (e). Take of the rear seat belt assembly.

Installation

1. Install the rear seat belt assembly.

- (a). The installation sequence is the reverse of the disassembly order.
- (b). Remove the C pillar lower decorative panel. **Refer to the replacement of C pillar lower decorative panel.**

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