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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



12

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Cigarette lighter



力帆汽车

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Cigarette lighter

Operating Principle

System overview

The cigarette lighter is installed in the dashboard assembly; if its button is pressed, the cigarette lighter components will be automatically heated and popped up, and then pulled out for use.

Note:

The cigarette lighter temperature is high in the use; must prevent burns.

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12-1983



Diagnosis information and procedures

Diagnosis Instructions

Before the cigarette lighter troubleshooting, must understand and familiarize its working principle, and then perform its diagnosis, so as to determine the correct fault diagnosis procedure in case of fault, and more importantly, to determine whether the situations described by the user are normal.

For any cigarette lighter fault diagnosis, must inspect it firstly, and then guide the maintenance staff to take the next logical steps for fault diagnosis. Comprehend and correctly use the diagnostic flow chart to shorten the diagnosis time and avoid the misjudgement.

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 inspection table

| Mechanical | Electrical |
|---|---|
| <ul style="list-style-type: none"> • Cigarette lighter • USB socket • Standby power supply | <ul style="list-style-type: none"> • Fuse • Line • Cigarette lighter • USB socket |

3. Check the system lines easy to see or can be seen.
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.

Cigarette lighter



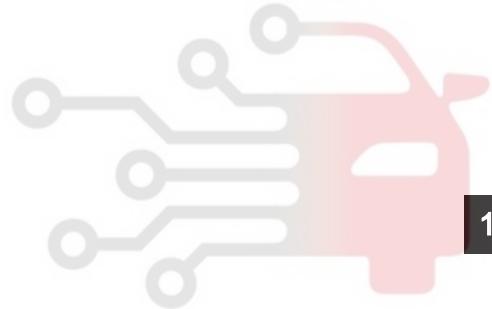
Fault symptoms table

| Symptom | Possible point of failure | Recommended measure |
|--|---|---|
| Cigarette lighter inoperative | <ul style="list-style-type: none"> • Fuse • Line • Cigarette lighter | Refer to: Diagnosis procedure about the cigarette lighter is not operated |
| The cigarette lighter can not be automatically popped up | <ul style="list-style-type: none"> • Cigarette lighter | <ul style="list-style-type: none"> • Replace the cigarette lighter |

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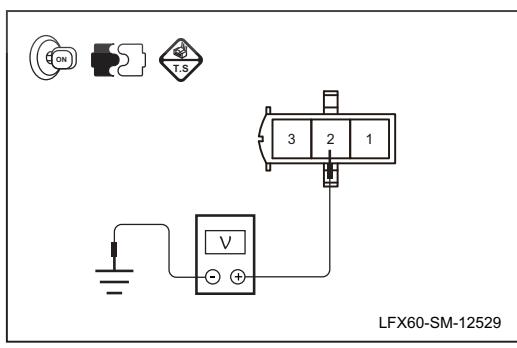


12

12-1985



Diagnosis procedure about the cigarette lighter is not operated

| Test condition | Details/results/measures |
|--|--|
| 1. General inspection. | <p>A. Inspect the cigarette lighter and its wiring harness connector for damage, poor contact, aging, loosening or other signs. Is it OK after checking? →Yes To step 2. →No Repair the fault position.</p> |
| 2. Inspect the cigarette lighter fuse. | <p>A. Check the cigarette lighter fuse FS30. Fuse rated capacity: 25A Is it OK after checking? →Yes To step 3. →No Replace the fuse of same model.</p> |
| 3. Inspect the cigarette lighter. | <p>A. Replace it with a new cigarette lighter with the same type. Inspect whether it is normal? →No To step 4. →Yes Replace cigarette lighter. Refer to: Replacement of Cigarette Lighter.</p> |
| 4. Inspect the cigarette lighter power line. | <p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the cigarette lighter harness plug I31. C. Connect the negative battery cable and operate the start switch to place the power mode under ON status. D. Inspect the voltage between Terminal 2 of the cigarette lighter wiring harness connector I31 and the reliable grounding point. Standard value: 11 ~ 14 V Is it OK after checking? →Yes To step 5. →No Inspect and repair the cigarette lighter power line open circuit fault; if necessary, replace the wiring harness.</p>  <p>LFX60-SM-12529</p> |

Cigarette lighter



| Test condition | Details/results/measures |
|---|--|
| 5. Inspect the cigarette lighter grounding point. | <p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable.</p> <p>B. Disconnect the cigarette lighter harness plug I31.</p> <p>C. Measure the resistance between Terminal 3 of the cigarette lighter wiring harness connector I31 and the reliable grounding point.</p> <p>Standard value: Less than 5Ω</p> <p>Is the measurement normal?</p> <p>→Yes</p> <p>Confirm the system is normal.</p> <p>→No</p> <p>Inspect and repair the cigarette lighter grounding point open circuit fault; if necessary, replace the wiring harness.</p> |

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12

12-1987

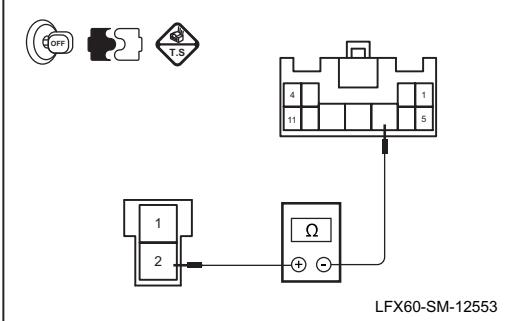
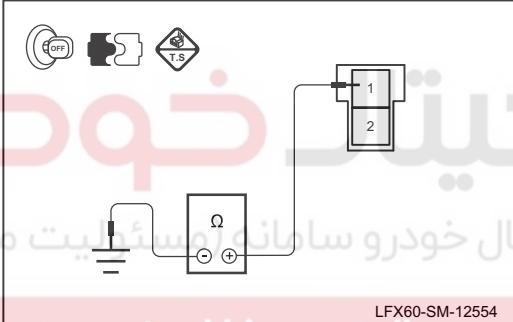


Diagnosis procedure about that the standby power outlet is not operated

| Test condition | Details/results/measures |
|--|--|
| 1. General inspection. | <p>A. Inspect the power outlet and its wiring harness connectors for damage, poor contact, aging, loosening or other signs. Is it OK after checking? →Yes To step 2. →No Repair the fault position.</p> |
| 2. Check the fuse. | <p>A. Check the fuse FS30. Fuse rated capacity: 25A Is it OK after checking? →Yes To step 3. →No Replace the fuse of same model.</p> |
| 3. Inspect the standby power supply voltage. | <p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the standby power supply harness plug I40. C. Connect the negative battery cable and operate the start switch to place the power mode under ON status. D. Measure the voltage between Terminals 1 and 2 of the standby power supply wiring harness connector I40. Standard value: 11 ~ 14 V Is the measurement normal? →Yes System normal. →No To step 4.</p> |

Cigarette lighter



| Test condition | Details/results/measures |
|--|--|
| <p>4. Inspect the standby power supply line continuity.</p>  | <p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the standby power supply wiring harness connector I40 and the dashboard wiring box wiring harness connector I04. C. Measure the resistance between Terminal 2 of the standby power supply wiring harness connector I40 and Terminal 7 of the dashboard wiring box wiring harness connector I04. Standard value: Less than 5Ω Is the measurement normal? →Yes To step 5. →No Inspect and repair the standby power supply line open circuit fault; if necessary, replace the wiring harness.</p> |
| <p>5. Inspect the standby power grounding point continuity.</p>  | <p>A. Operate the start switch to turn the power to OFF state and disconnect the battery negative cable. B. Disconnect the standby power supply harness plug I40. C. Measure the resistance between Terminal 1 of the standby power supply wiring harness connector I40 and the reliable grounding point. Standard value: Less than 5Ω Is the measurement normal? →Yes Confirm the system is normal. →No Inspect and repair the standby power supply ground line open circuit fault; if necessary, replace the wiring harness.</p> |
| <p>6. The system is normal.</p> | |



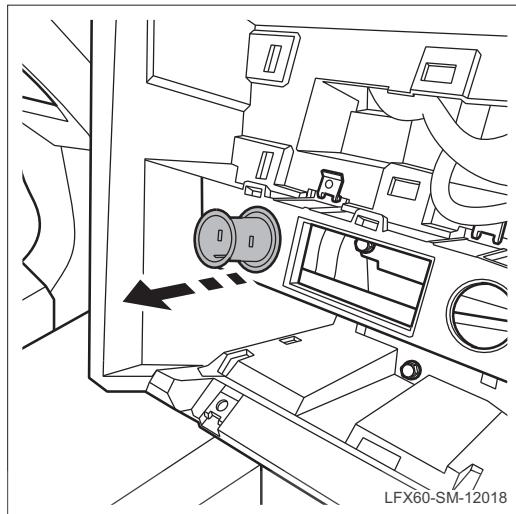
Removal and installation

Replacement of cigarette lighter

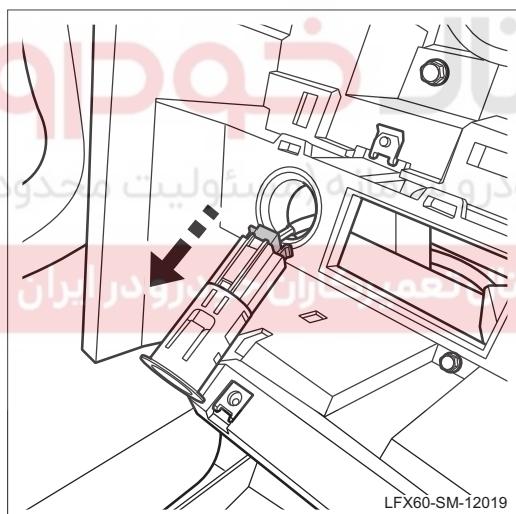
Removal

1. Remove the cigarette lighter.

(a). Disconnect the battery negative connector.



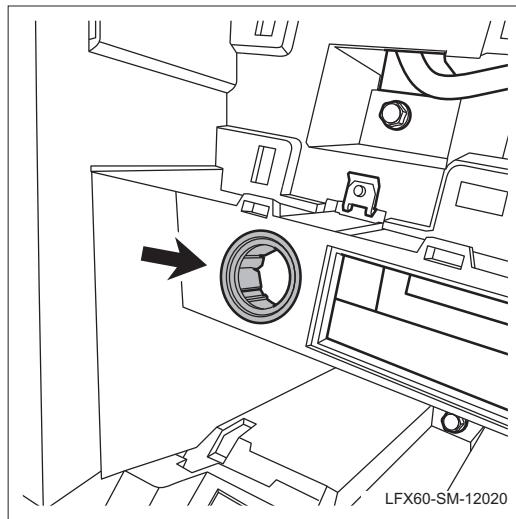
(b). Remove the cigarette lighter holder with an appropriate tool.



(c). Disconnect the cigarette lighter wiring harness connector.



Cigarette lighter

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(d). Remove the cigarette lighter holder.

Installation

1. Install the cigarette lighter.

- (a). The installation sequence is the reverse of the disassembly order.
- (b). Connect the battery negative terminal.

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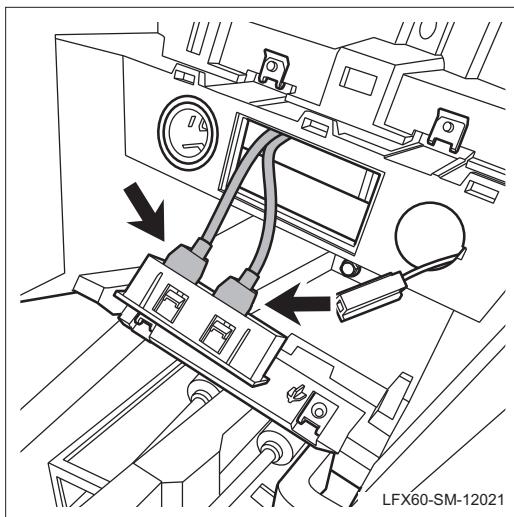
12-1991



Replacement of USB Socket

Removal

1. Remove USB socket.

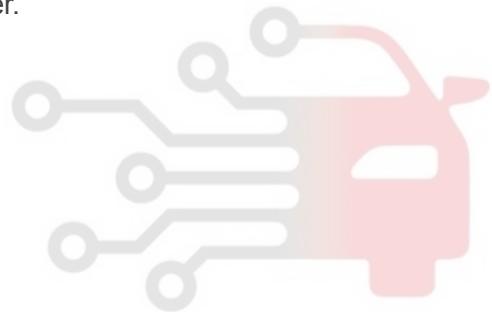


- Remove USB socket with an appropriate tool.
- Disconnect USB socket wiring harness connector.
- Remove USB socket.

Installation

1. Install USB socket.

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



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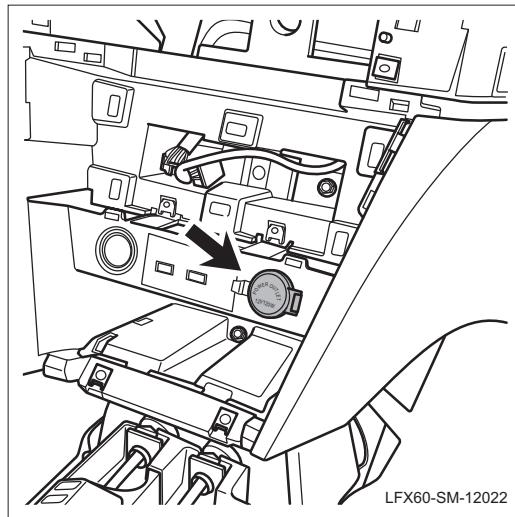
Cigarette lighter



Replacement of Standby Power Outlet

Removal

1. Remove the standby power outlet.



- Remove the standby power outlet with an appropriate tool.
- Disconnect the standby power outlet wiring harness connector.
- Remove the standby power outlet.

Installation

1. Install the standby power outlet.

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

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12



12-1993



- Memo -

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