

English

For Dismantlers <u>VITARA</u> <u>S-CROSS</u> <u>SX4 S-CROSS</u>

SHVS Mild Hybrid System Lithium-ion Battery (48V-350Wh) Removal Manual

CAUTION:

Servicing SHVS system involves a danger of electric shock. For precaution, use insulation tools and gloves.

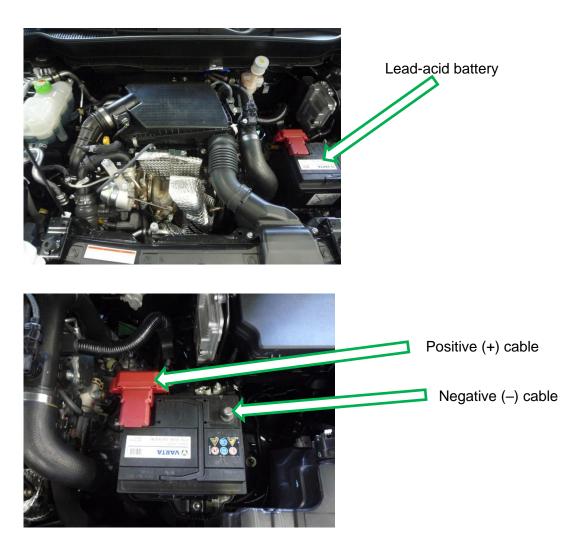
NOTICE:

Lithium-ion battery consists of high precision parts and can be easily damaged by large shock.

Handle the lithium-ion battery carefully and do not expose it to large shock.

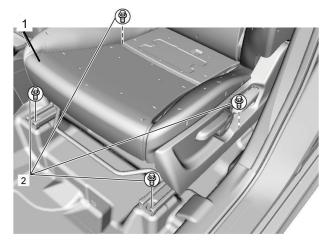
- 1) Set front wheels in straight ahead position.
- 2) Set ignition "OFF" and keep ignition "OFF" for 3 minutes.
- 3) Disconnect the negative (–) cable from the lead-acid battery.
- 4) Disconnect the positive (+) cable from the lead-acid battery.

By disconnecting the cables from the lead-acid battery, as a safety mechanism, the lithium-ion battery will shut off its power circuit.



5) Wait for at least 90 seconds after performing Step 4).

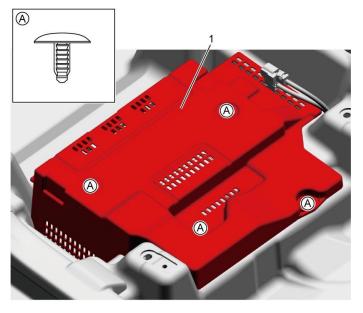
- 6) Disconnect the connector from the right-side front seat.
- 7) Remove the 4 mounting bolts (2) and remove the right-side front seat (1).



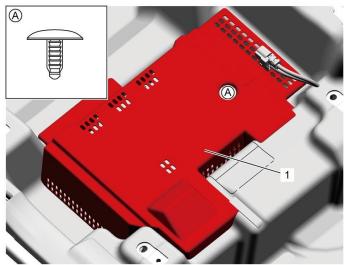
The left figure shows the left-side front seat.

However, you can understand how to remove right-side front seat by this figure.

8) Remove the clips (A), and then remove the lithium-ion battery cover (1). VITARA



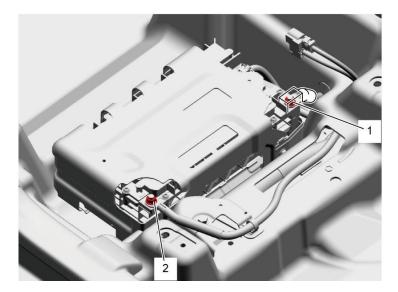
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9) Check the terminal voltage between the "48V+" terminal (1) and the "48V-" terminal (2) is lower than 5V.

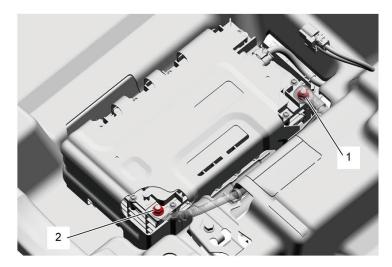


If the voltage is still higher than 5 V, check it again in 15 minutes.



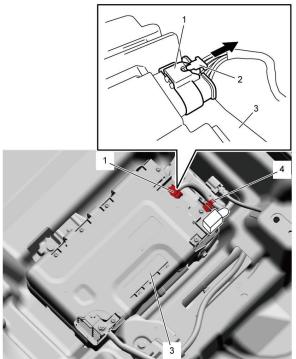
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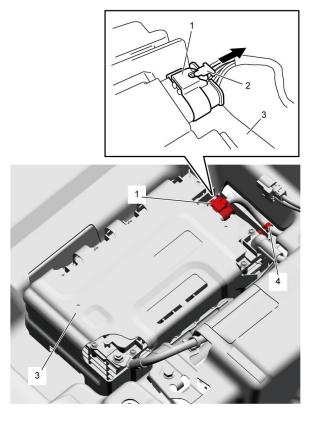


- 10) Disconnect lithium-ion battery connector (1) as follows.
 - a) Move the connector lock lever (2) in arrow direction as shown in the figure below.
 - b) Push the connector lock lever and disconnect the connector from the lithiumion battery (3).
- 11) Remove the floor harness clamp (4)

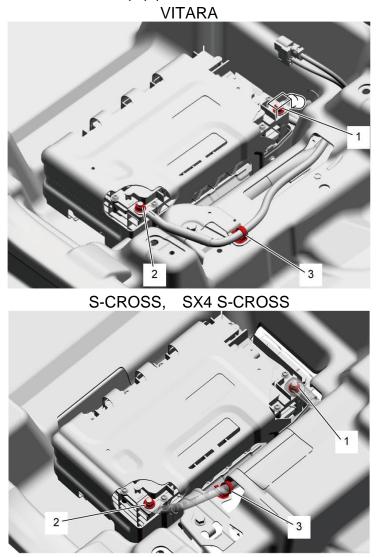
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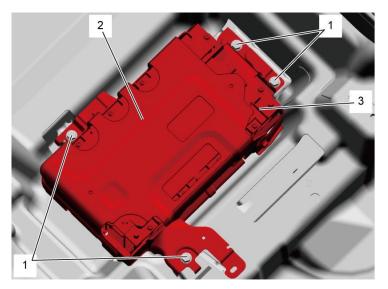
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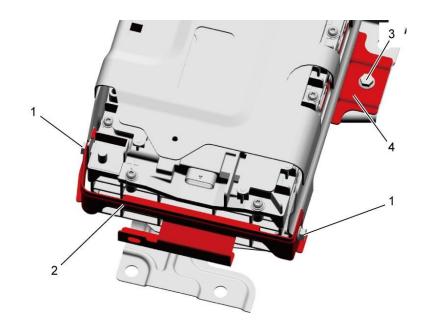
- 12) Remove the "48V+" terminal nut (1) and the "48V-" terminal nut (2), and then remove the cables.
- 13) Remove the "48V–" cable clamp (3).



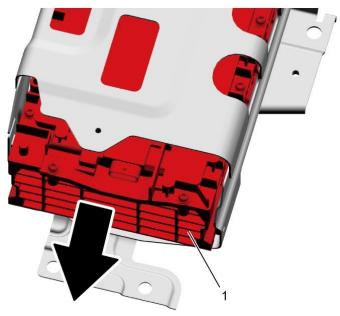
14) Remove the lithium-ion battery holder bolts (1), and then remove the lithium-ion battery holder (2) and the lithium-ion battery (3).



- 15) Remove the lithium-ion battery bracket No.1 bolts (1), and then remove the lithium-ion battery bracket No.1 (2).
- 16) Remove the lithium-ion battery bracket No.2 bolt (3), and then remove the lithium-ion battery bracket No.2 (4).



17) Remove the lithium-ion battery (1) by pulling it in arrow direction.



18) Prevention of a short circuit :

In order to prevent a short circuit, cover the +/- terminals and the connector of the removed lithium-ion battery by insulating tape securely as shown below.

