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# CIAZ, ERTIGA, XL6 VITARA BREZZA, BREZZA S-CROSS GRAND VITARA

## SHVS Mild Hybrid System Lithium-ion Battery Removal Manual

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	Lithium-ion Battery Type		
	12V-3Ah 36Wh	12V-6Ah 72Wh	12V-10Ah 120Wh
MODEL	CIAZ K15B Engine (Made in India)	-	-
	ERTIGA K15B Engine * (Made in India)	ERTIGA K15C Engine (Made in India)	-
		ERTIGA K15B Engine (Made in Indonesia)	
	XL6 K15B Engine * (Made in India)	XL6 K15C Engine (Made in India)	-
	VITARA BREZZA K15B Engine * (Made in India)	BREZZA K15C Engine (Made in India)	-
	S-CROSS* K15B Engine (Made in India)	GRAND VITARA K15C Engine (Made in India)	-

\* are discontinued model.

**NOTICE:**

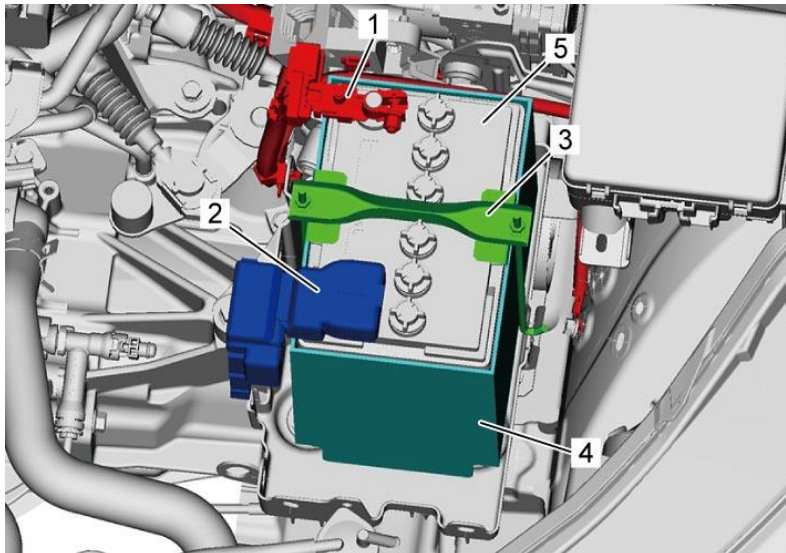
Auxiliary power module (lithium-ion battery) consists of high precision parts and can be easily damaged by large shock.

Handle the auxiliary power module (lithium-ion battery) carefully and do not expose it to large shock.

- 1) Set front wheels in straight ahead position.
- 2) Set ignition "OFF".
- 3) Disconnect the negative (-) cable (1) first from the lead-acid battery.
- 4) Disconnect the positive (+) cable (2) from the lead-acid battery (5).

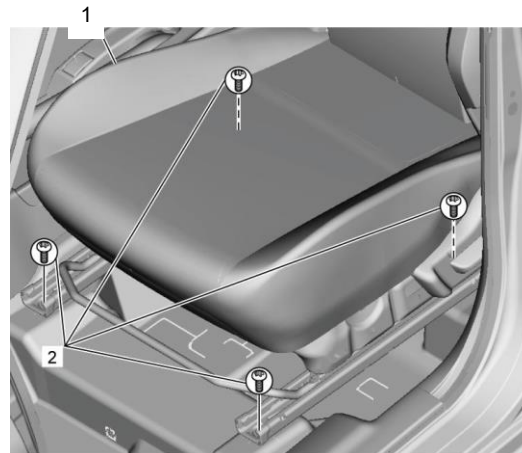
By disconnecting the cables from the lead-acid battery, as a safety mechanism, the lithium-ion battery will shut off its power circuit.

The figure below is for reference



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

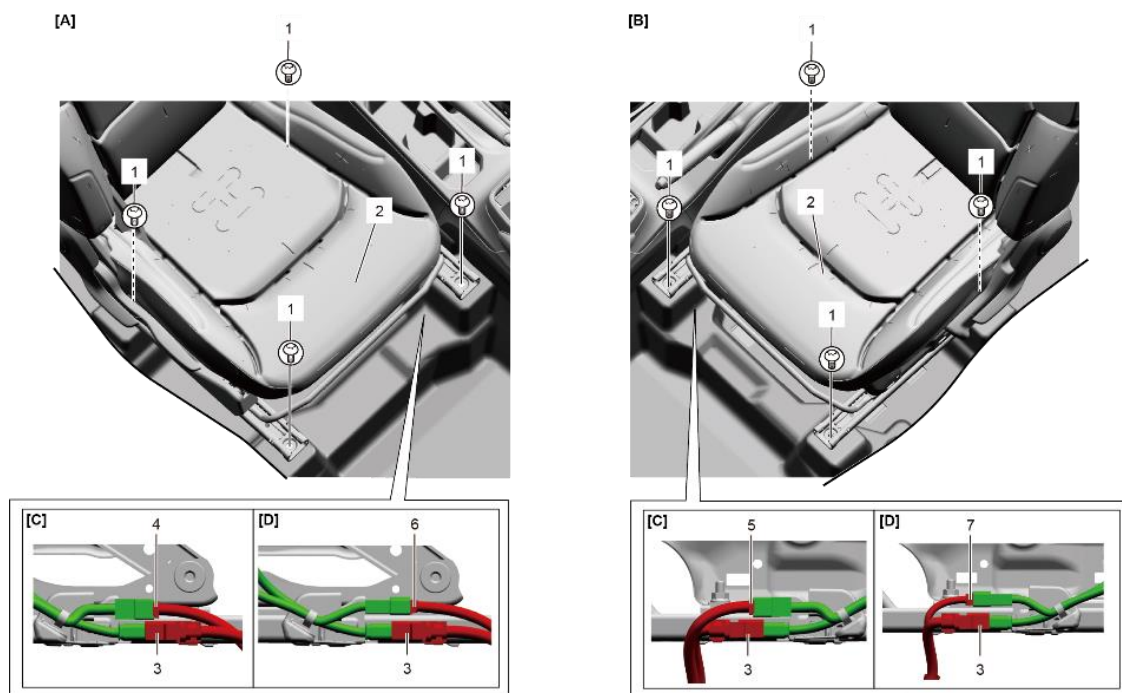
6) For LHD, remove the driver seat. For RHD, remove the front passenger seat.  
Disconnect the connector from the seat.  
Remove the 4 mounting bolts (2) and remove the seat (1).



If present, remove the following harness connectors.

- With seat ventilation
  - Side-air bag (inflator) module harness connector (if equipped) (3)
  - Seat belt and seat ventilation harness connector (4)
  - Seat belt reminder and seat ventilation harness connector (5)
- Without seat ventilation
  - Side-air bag (inflator) module harness connector (3)
  - Seat belt harness connector (6)
  - Seat belt reminder harness connector (7)

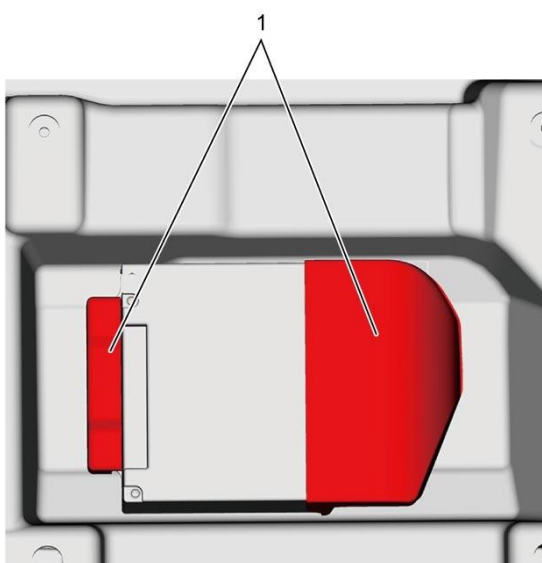
Remove mounting bolts (1), and then remove front seat assembly (2).



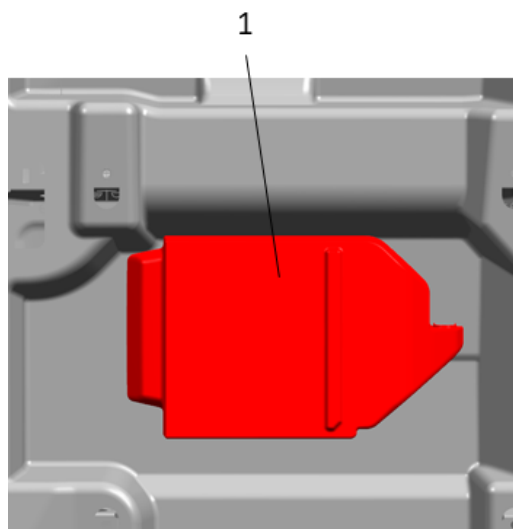
[A]: Driver seat	[C]: With seat ventilation
[B]: Passenger seat	[D]: Without seat ventilation

7) Remove the cover(s) (1).

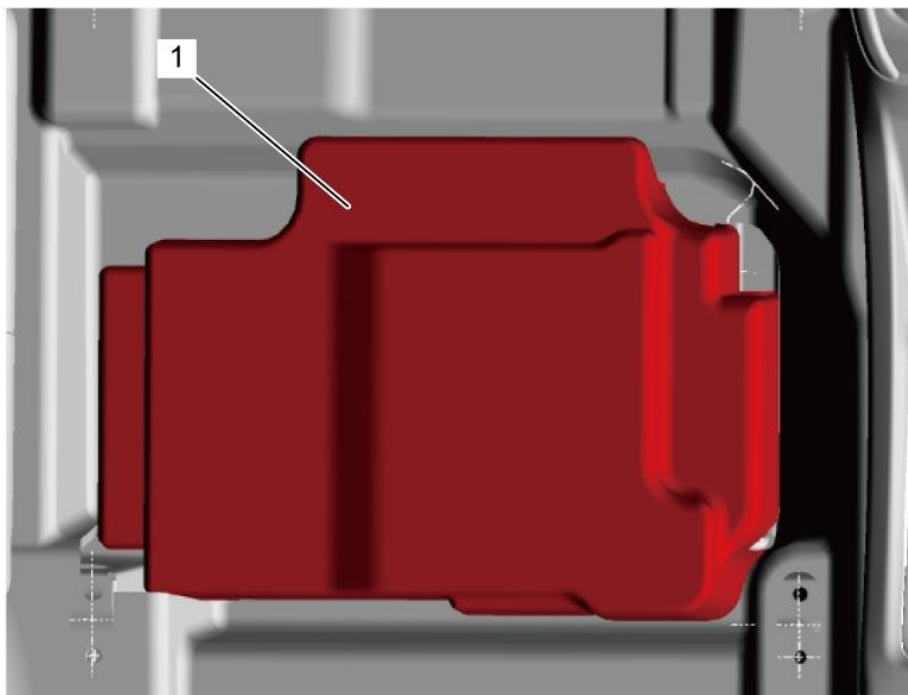
12V-3Ah



Or



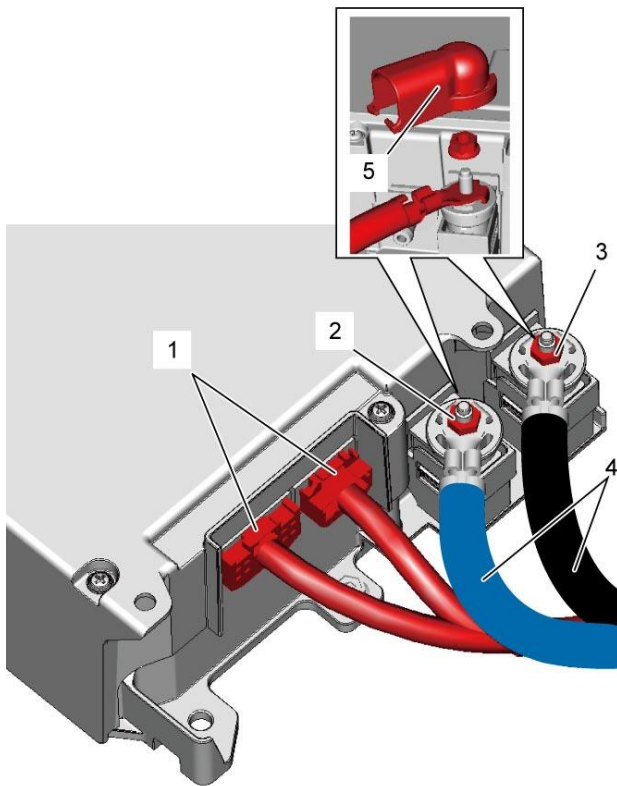
12V-6Ah, 12V-10Ah



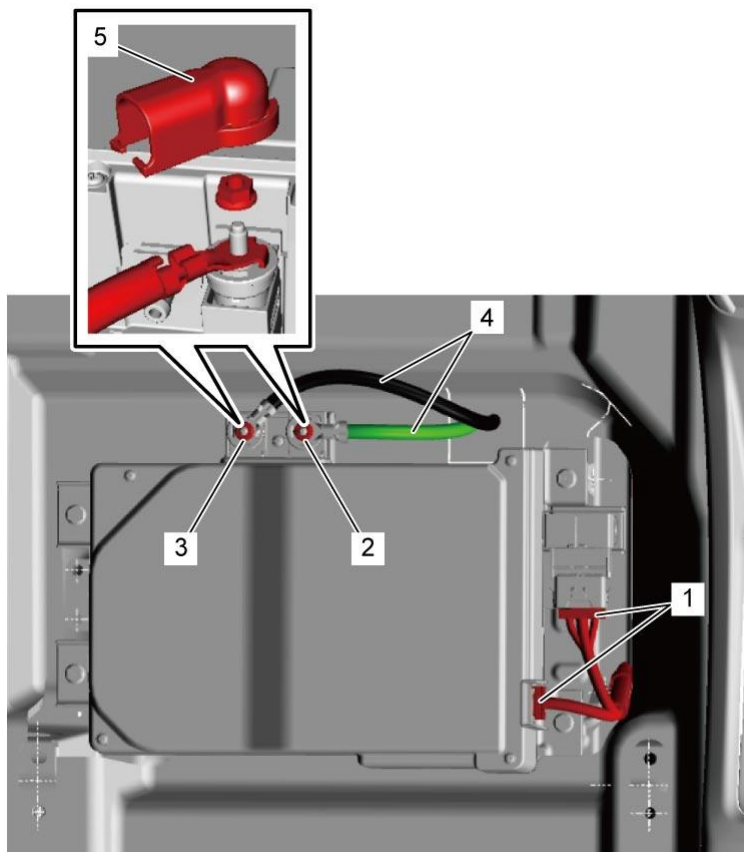
8) Disconnect the connectors (1).

9) Remove the “Pb+” terminal nut (2) and the “ISG+” terminal nut (3) under the terminal covers (5), and then remove the cables (4).

12V-3Ah

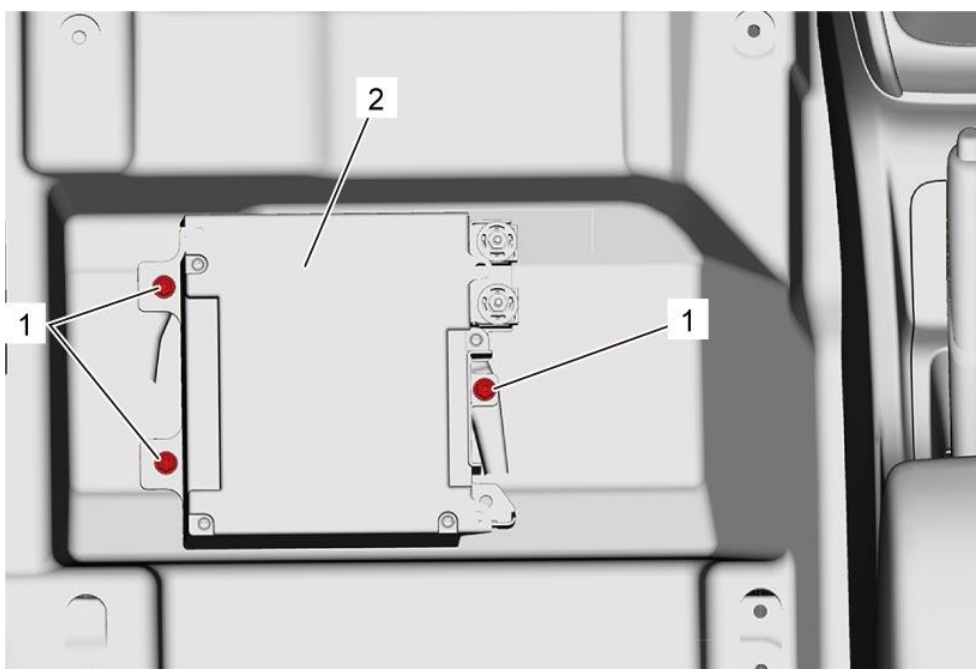


12V-6Ah, 12V-10A

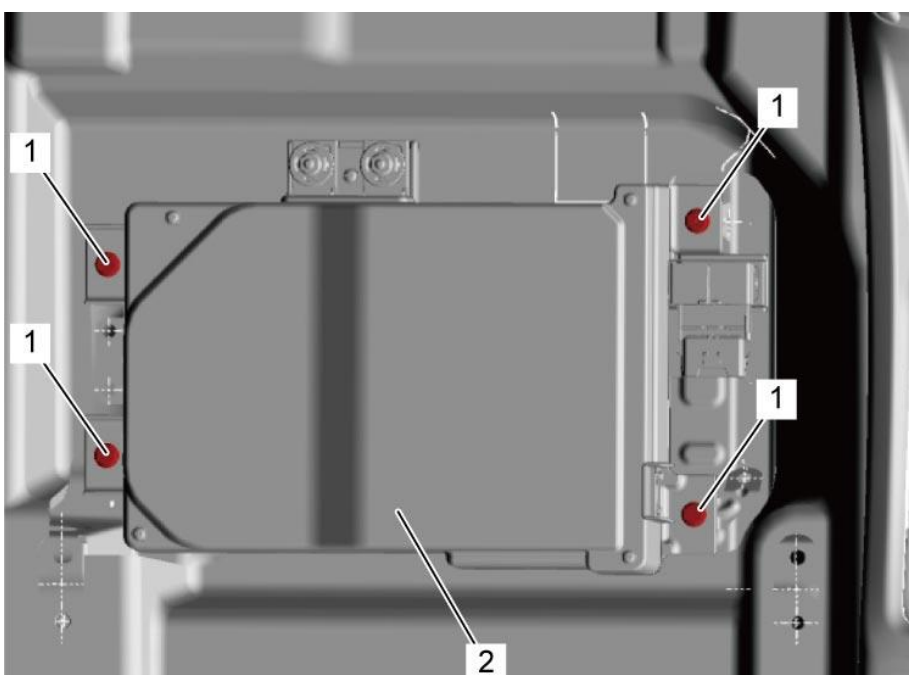


10) Remove the bolts (1), and then remove the lithium-ion battery (2).

12V-3Ah



12V-6Ah, 12V-10Ah



# 11) Prevention of a short circuit:

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

