

Stuff you'll need

8mm socket

10mm socket

12mm socket

14mm socket

Socket wrench

Phillips screwdriver

Trim removal tool (or very carefully with something flat like a flat-head screwdriver)

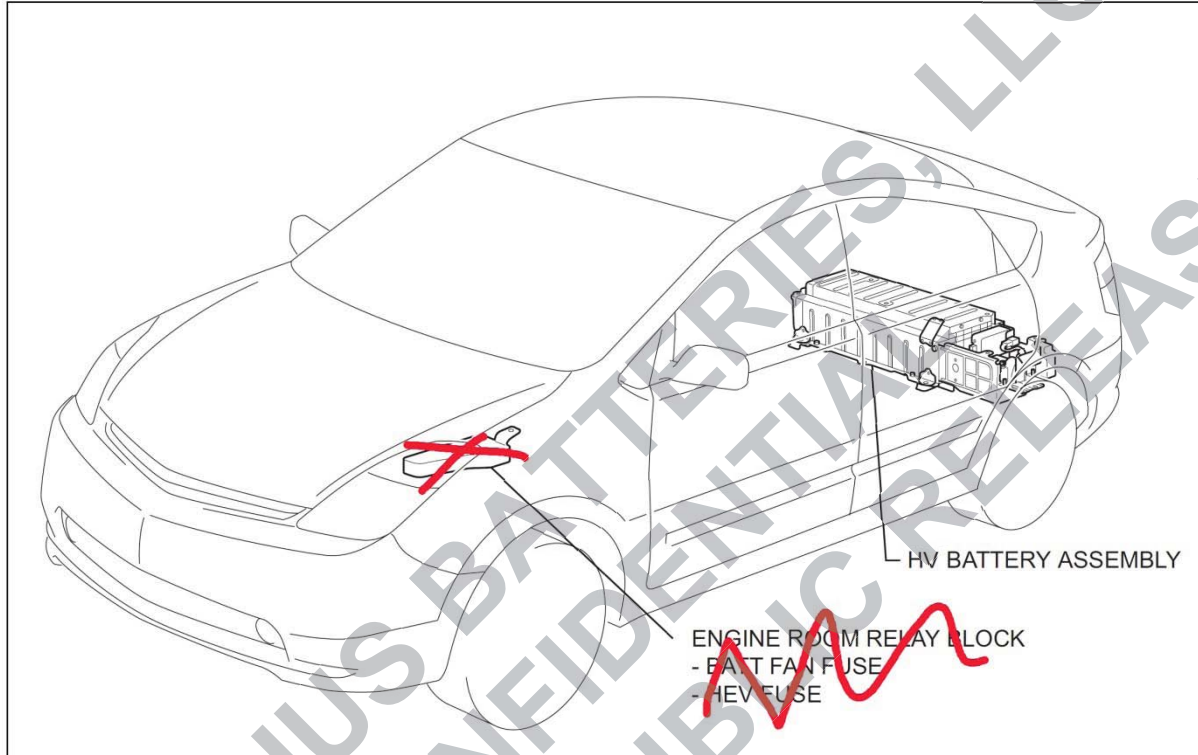
NO.	Name		Quantity	Code name
1	CB1412 Module		14	
2	Front support seat combination	Front support seat	1	U1
		P cover plate	1	U2
		N cover plate	1	U3
3	Rear support seat combination	Rear support seat	1	D1
		L cover plate	1	D2
		R cover plate	1	D3
4	Voltage acquisition wiring harness		1	A
5	Temperature sensor base		3	B
6	Connection piece 392125		12	C
7	M5 Nut		28	E
8	M5 Bolt		28	F
9	Wind board		1	G

Just the car inside with the "HV Battery Assembly" shown.

HB-6

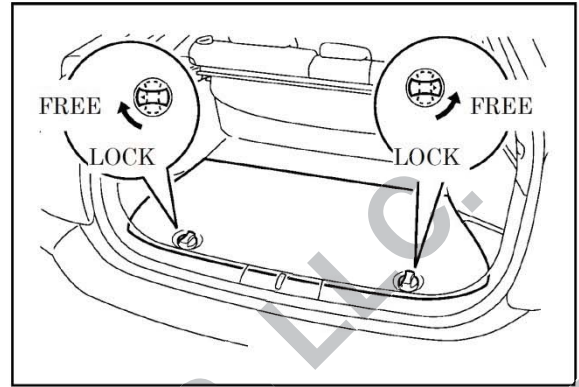
P112 HYBRID BATTERY CONTROL – HYBRID BATTERY SYSTEM

PARTS LOCATION



1 Remove rear floor board No. 2.

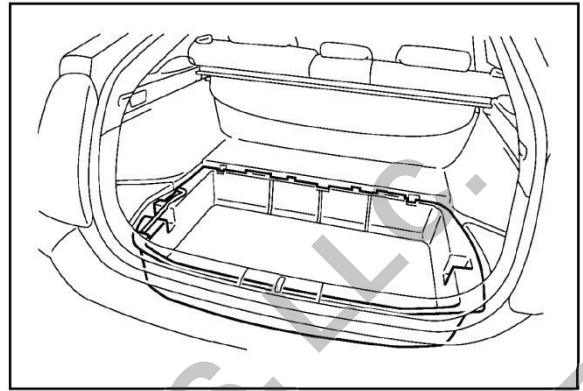
- a) As shown in the illustration, twist the knob and release the lock.
- b) Remove the rear floor board No. 2



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2 Remove deck floor box rear.

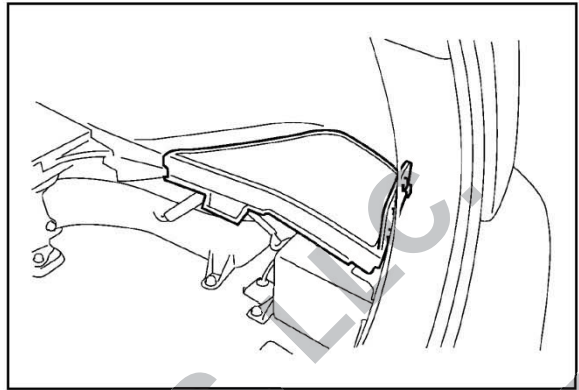
Remove the deck floor box rear as shown in the illustration.



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3 Remove rear floor board No. 3.

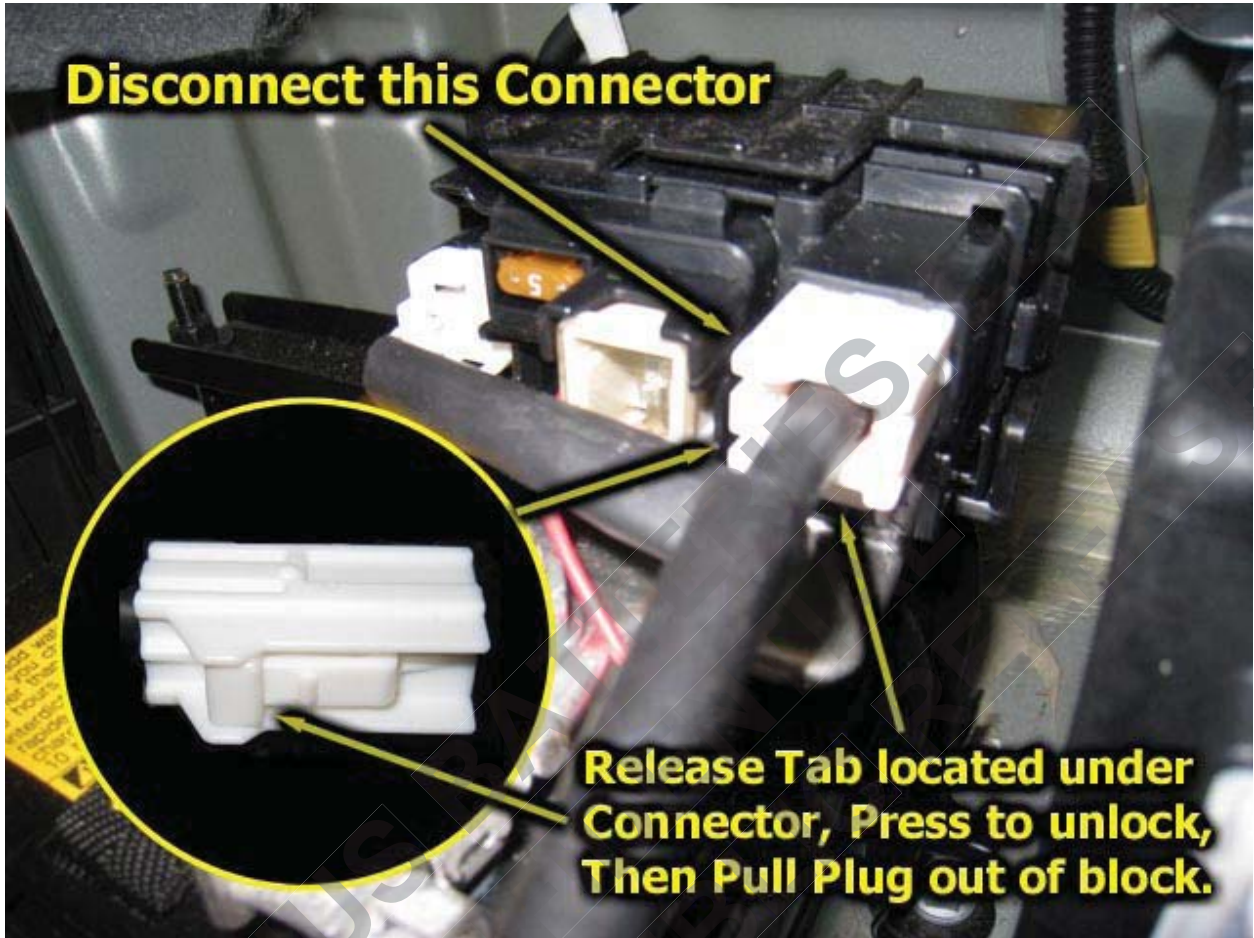
Remove the rear floor board No. 3 as shown in the illustration.



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On the 12v battery, release these 3 tabs, then slide the cover open

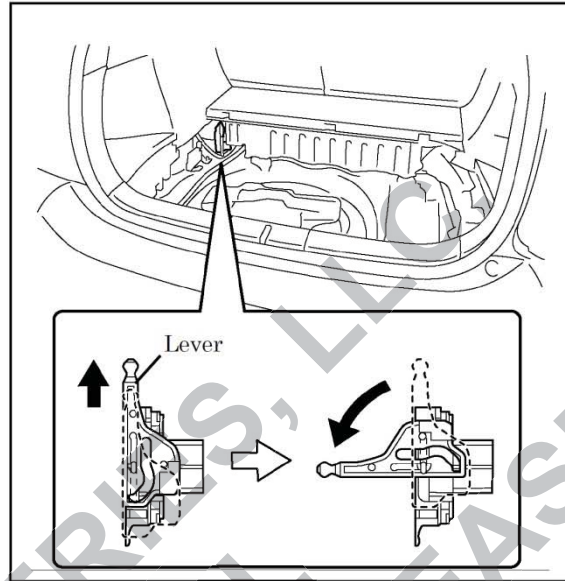




NEW PRICE
CONNECTIONS
NOT FOR PULL

- 5 Remove the ~~key from the key slot.~~
~~Then disconnect the negative (-)~~
~~terminal of the auxiliary battery and~~
~~remove the service plug.~~

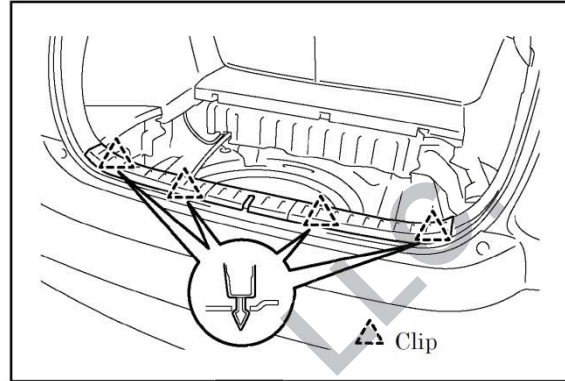
- a) Slide up the lever of the service plug. Remove the service plug grip while turning the lever to the left.
- b) ~~Insulate the service plug socket with insulating tape.~~



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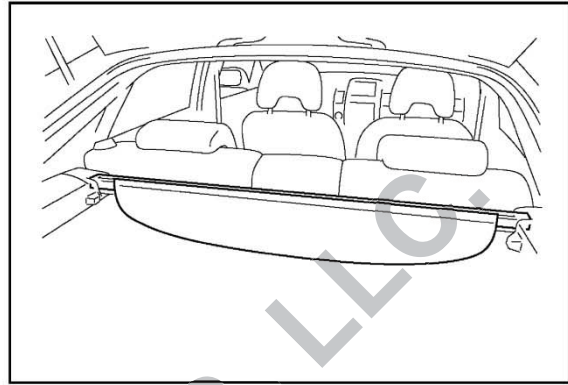
6 Remove deck trim cover rear.

Disconnect the 4 clips shown in the illustration, then remove the deck trim cover rear.



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7 Remove tonneau cover



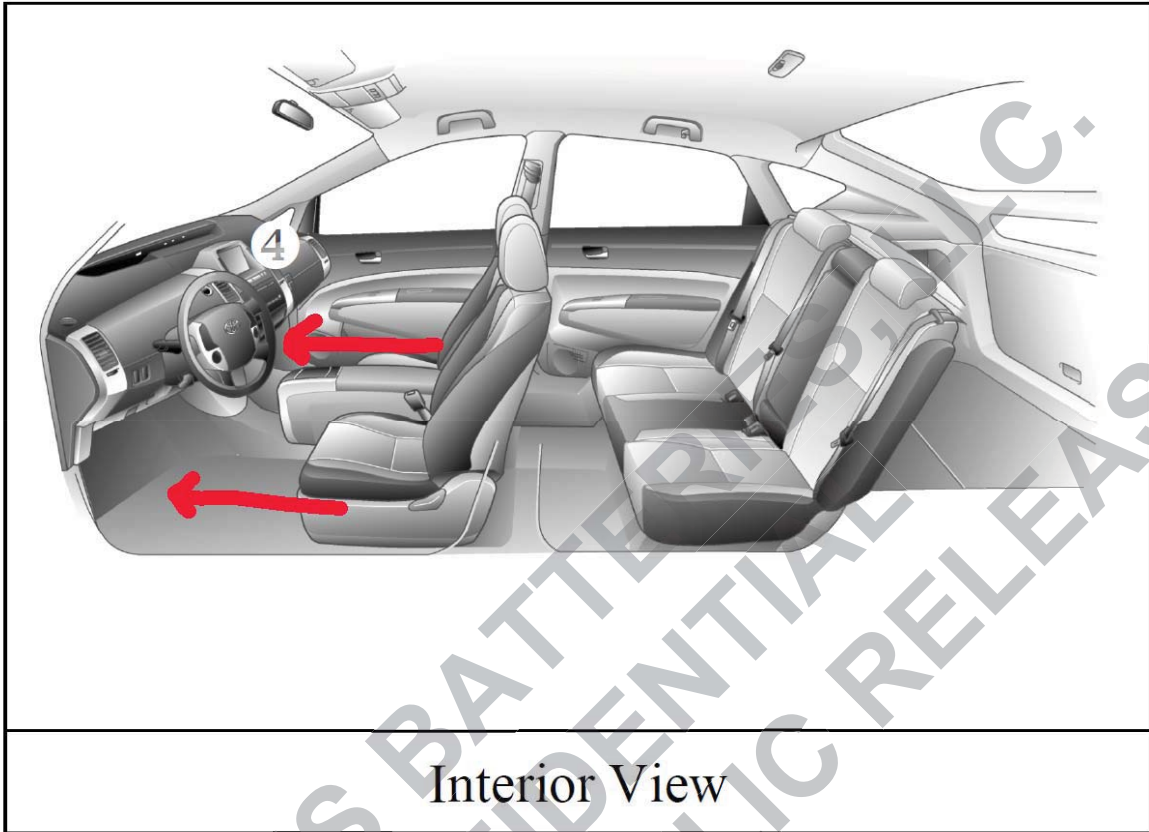
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Fold down rear seats and undo the velcro trim



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Move your front seats as far forwards as possible

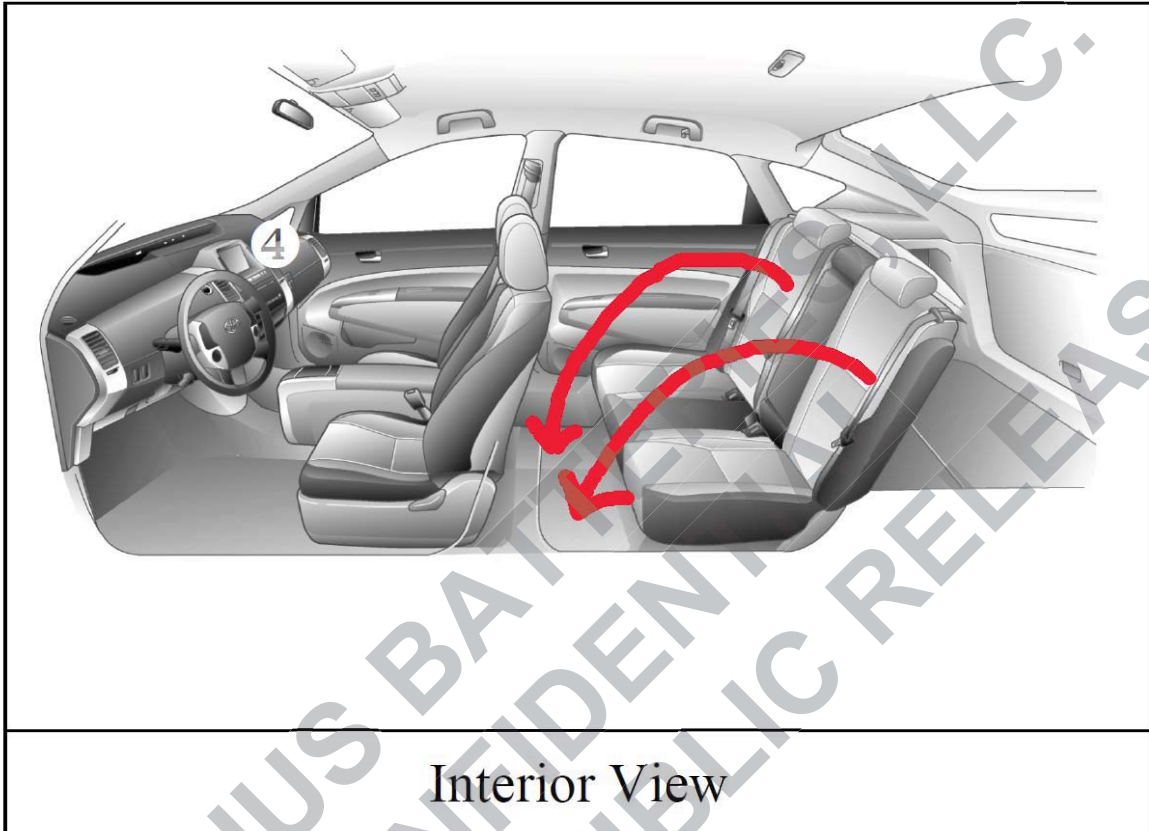


Using a 14mm socket remove the 2 bolts per rear seat.

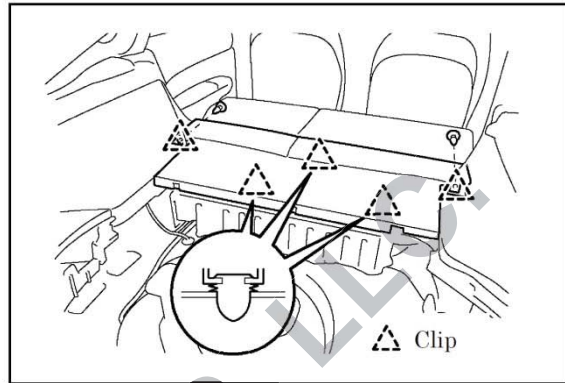


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Flip the rear seat backs forwards and slide them head-rest down to the floor behind the front seats. This gets them out of the way to continue working on the hybrid pack without needing to remove them completely



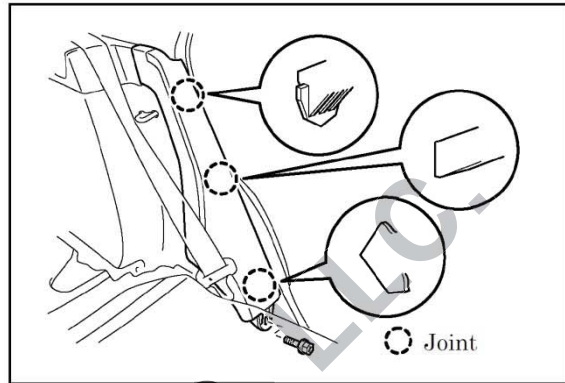
- 9 Remove rear floor board No. 1.
- a) Remove the 2 bolts and luggage hold belt strikers.
 - b) Remove the 5 clips shown in the illustration and the rear floor board No. 1.



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10 Remove rear side seat back frame LH.

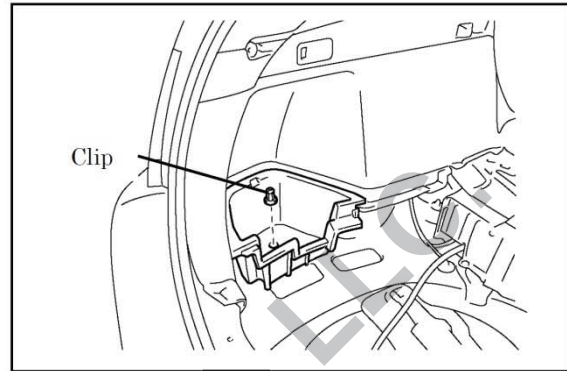
- a) Remove the bolt from the rear side seat back frame LH.
- b) Undo the 3 joints, then remove the rear side seat back frame LH.



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11 Remove deck floor box LH.

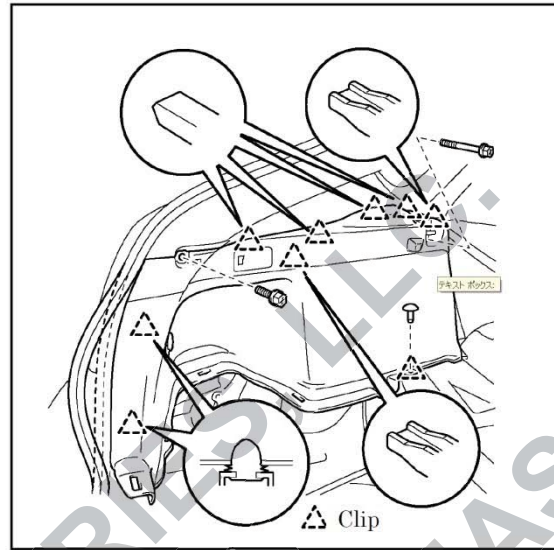
Remove the clip and deck
floor box LH.



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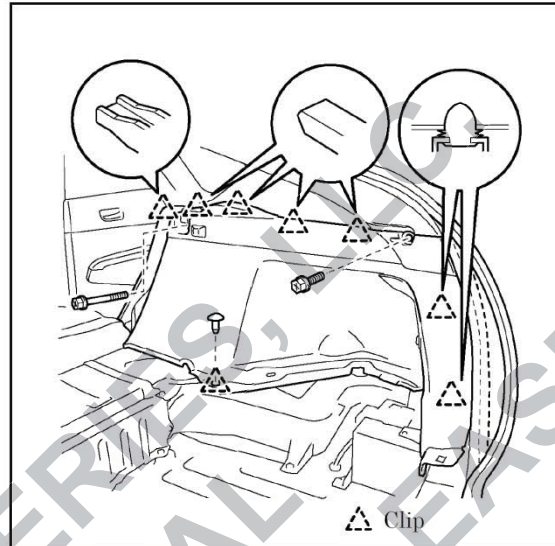
12 Remove deck trim side panel LH

- a) Remove the bolt and luggage hold belt striker LH.
- b) Remove the 2 bolts from the deck trim side panel LH.
- c) Remove the clip from the deck trim side panel LH.
- d) Undo the 8 clips, then pull out a part of the weather strip and remove the deck trim side panel LH.
- e) Disconnect the lighting connector.



13 Remove deck trim side panel RH

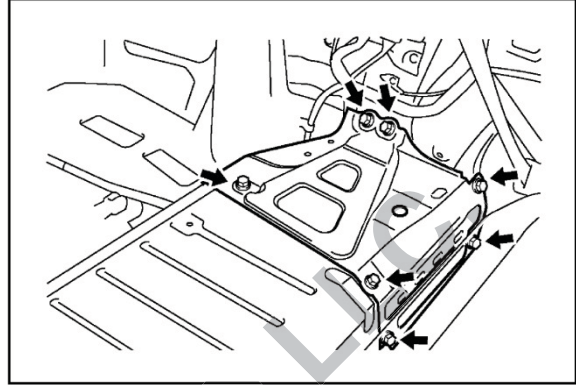
- a) Remove the bolt and luggage hold belt striker RH.
- b) Remove the 2 bolts from the deck trim side panel RH.
- c) Remove the clip from the deck trim side panel RH.
- d) Undo the 7 clips, then pull out a part of the weather strip and remove the deck trim side panel RH.



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14 Remove battery carrier bracket

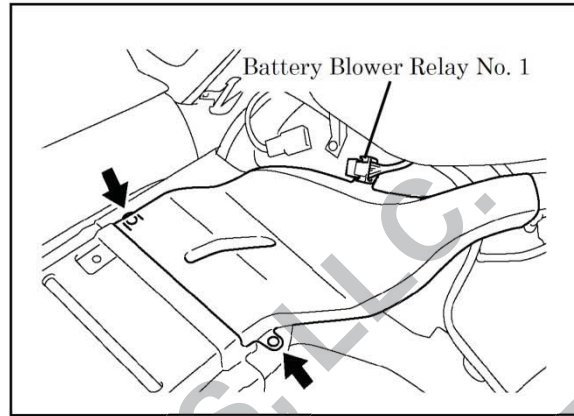
Remove the 7 bolts and
battery carrier bracket.



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15 Remove quarter vent duct inner No. 2.

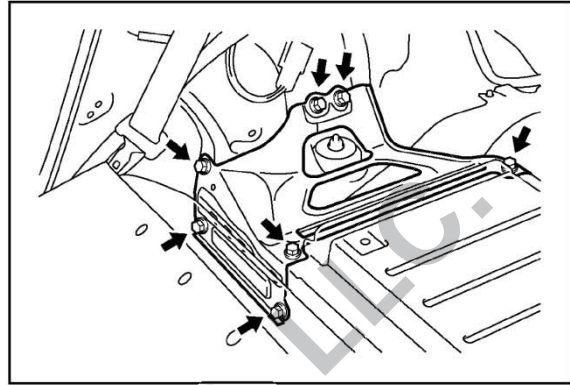
- a) Disconnect the clamp and battery blower relay No. 1.
- b) Remove the 2 clips.
- c) Slide the ventilation inner duct No. 2 to the battery side, then remove it.



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16 Remove battery bracket reinforcement.

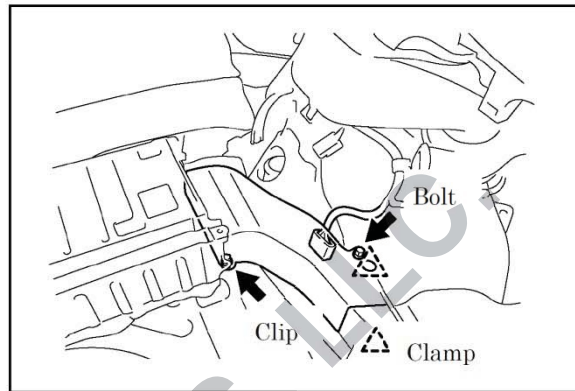
Remove the 7 bolts and
battery bracket
reinforcement.



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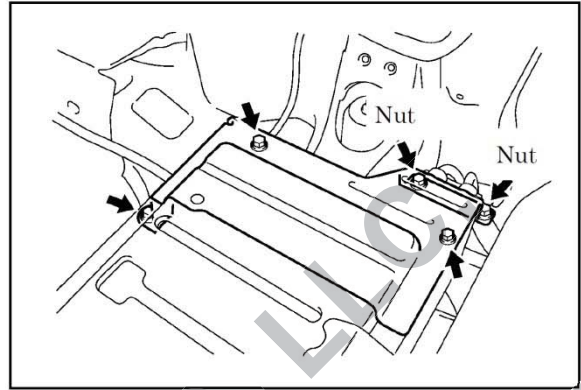
17 Remove quarter vent duct.

- a) Disconnect the connector.
- b) Remove the clamp, then disconnect the wire harness.
- c) Remove the bolt, clip and quarter ventilation duct.



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- 18 Remove battery carrier panel No. 6.
Remove the 3 bolts, 2 nuts
and battery carrier panel
No. 6.

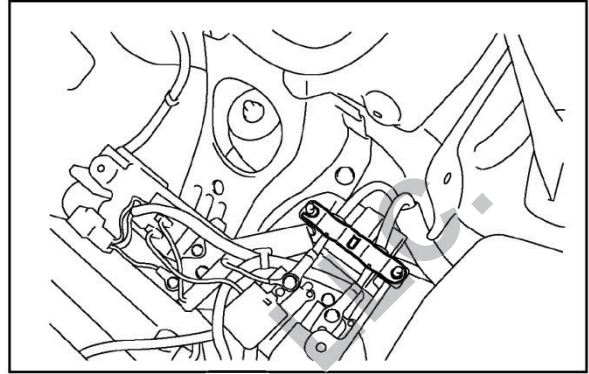


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Now put on your high voltage insulator gloves

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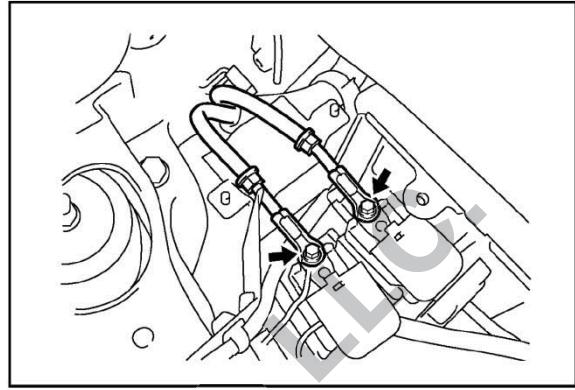
19 Remove junction terminal.



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20 Remove frame wire.

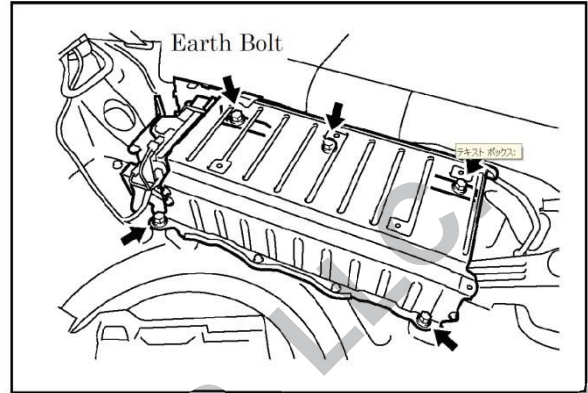
Remove the 2 nuts, then disconnect the frame wire from the system main relay No. 2 and No. 3.



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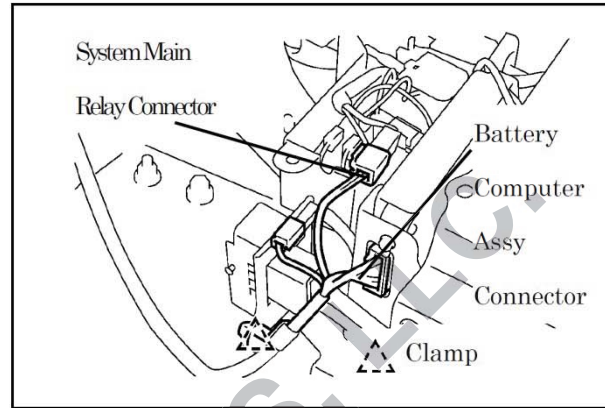
21 Remove HV battery.

- a) Remove the earth bolt and 4 bolts shown in the illustration.



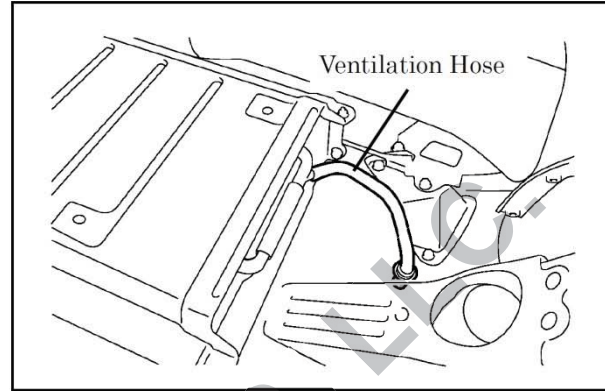
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- b) Disconnect the system main relay connector.
- c) Disconnect the interlock connector.
- d) Remove the clamp, then disconnect the battery ECU connector.



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- e) Disconnect the battery room ventilation hose from the floor panel.
- f) Remove the HV battery.
- g) HV battery pack is recyclable. Contact your Toyota Distributor as mentioned on HV Battery Caution Label or the nearest



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Now remove the hybrid battery pack from the vehicle



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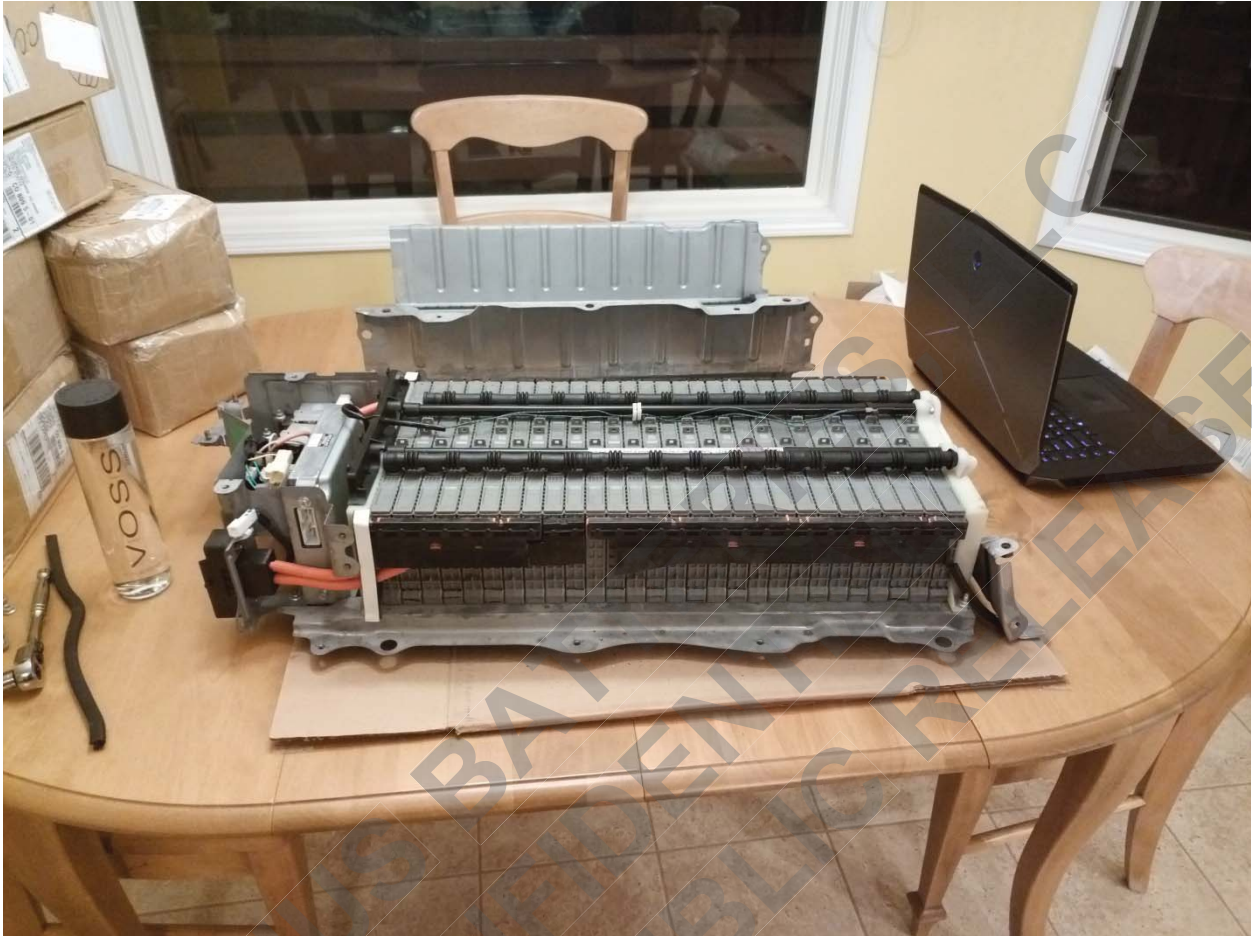
End of Phase 1

Put the High Voltage Battery Pack on a large sturdy table to work on. A protective piece of cardboard is recommended to protect your work surface from the sharp metal casing.



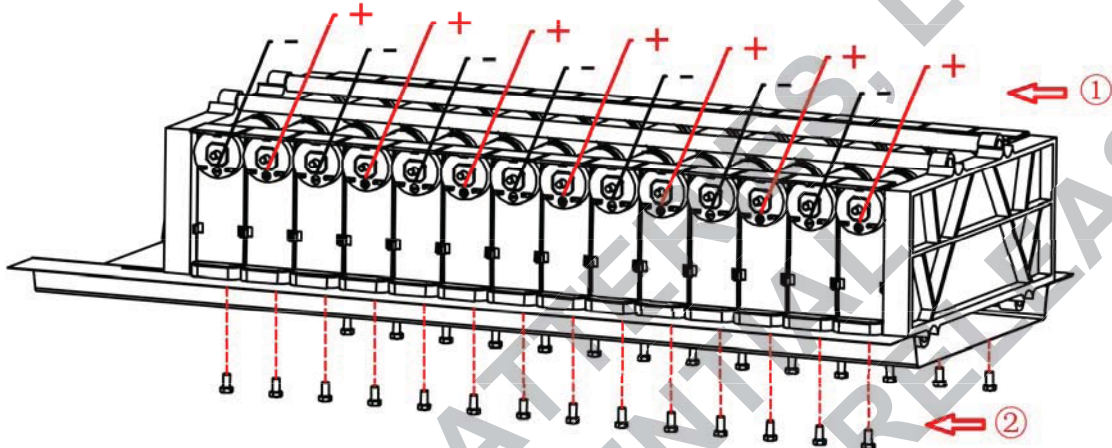
NEW PRICES COMING
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Remove the top of the battery casing exposing the 28 individual modules

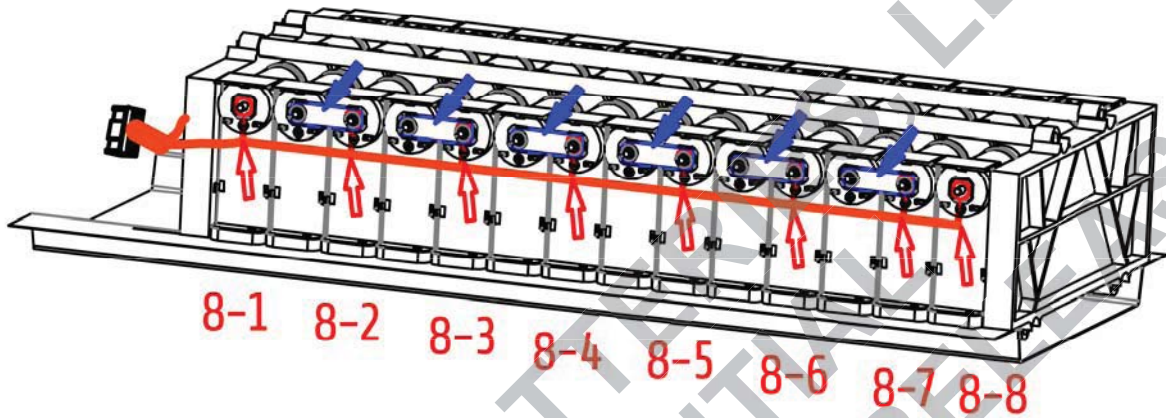


FOLLOW THE YOUTUBE VIDEO OR CEBA PACK MANUAL...

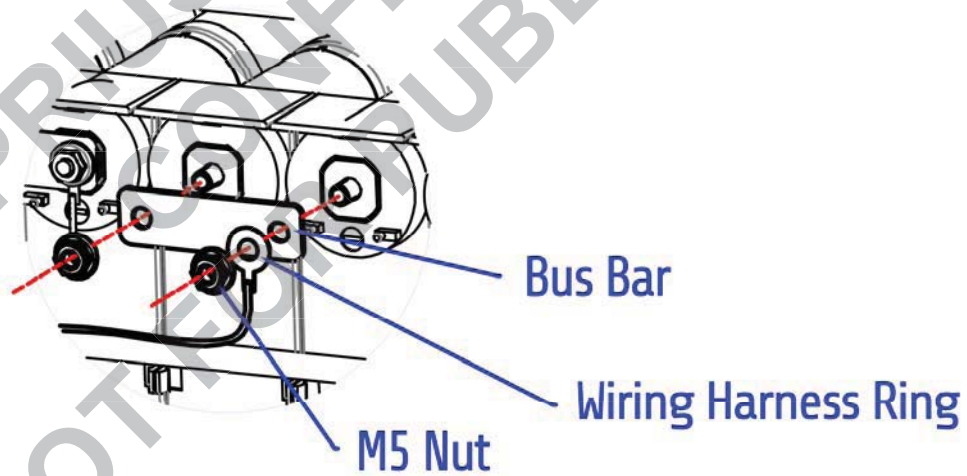
Arrange the new modules in order from #1 through #14 in a straight row from 01 through 14. Make sure to align the center rings together and fit the teeth into the notches. The center ring on module 01 and module 14 may be different than modules 02 through 13 because they are at the ends of the pack. The markings can be found on the top of the individual battery modules. In the example image below your pack serial number of "K0194" is followed by the battery module number "09".



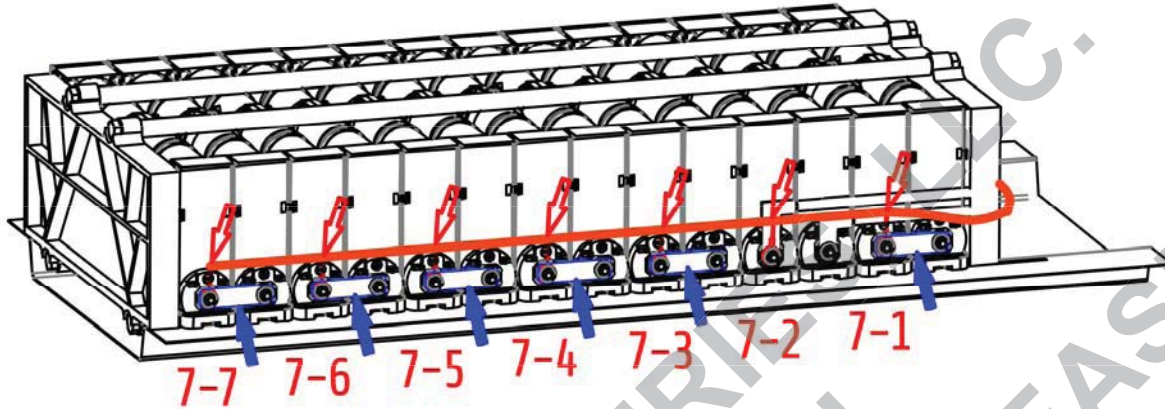
Remove the attached plastic safety covers from each module and attach the supplied bus bars between modules using the included M5 nuts. Secure wiring harness to bus bar as indicated in the blue detail. Do not connect 8-1 or 8-8 at this time because we will need to attach the main battery power wires to these terminals in a later step.



The side with the main battery connection wires, do not connect 8-1 (the first) or 8-8 (the last)



When attaching the wiring harness (A) to the batteries across D1, attach the sensor points for 7-1 (the first) through 7-7 (the last) except do not fully attach 7-2 as that will be used later for the safety interconnect latch.



Install the longer Wiring Harness (7-X) on the side with the safety disconnect switch wiring but do not install 7-2

Loosely tighten the cylindrical metal rods that squeeze the pack together. Make sure they still move slightly as you will need to arrange the cells onto the metal frame. The pack is not stable in this arrangement, so do not consider it assembled. Move the pack as if it were very fragile.



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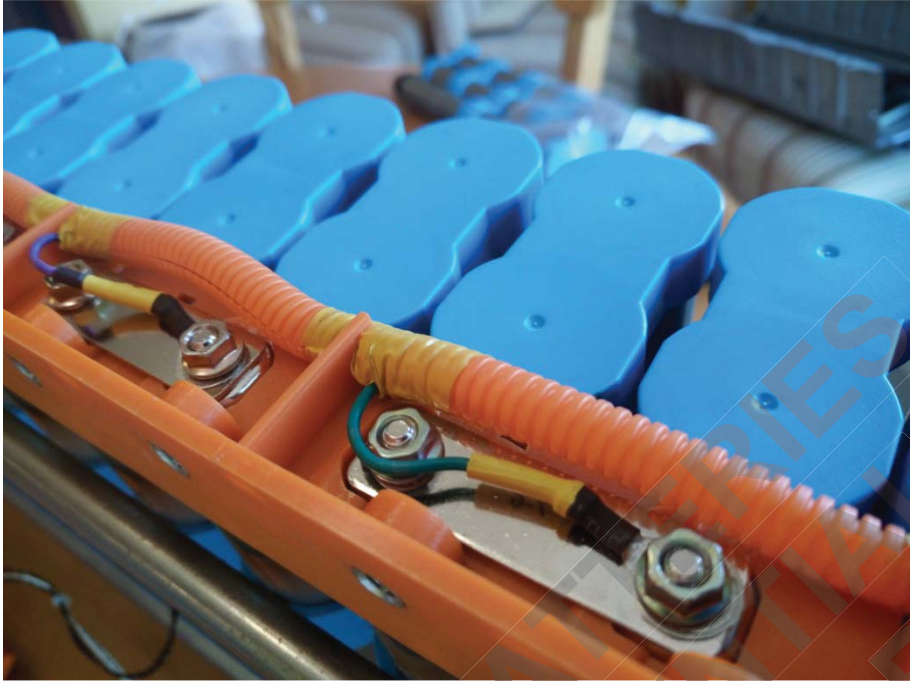
Attach the original temperature sensors from your battery into the included battery clips



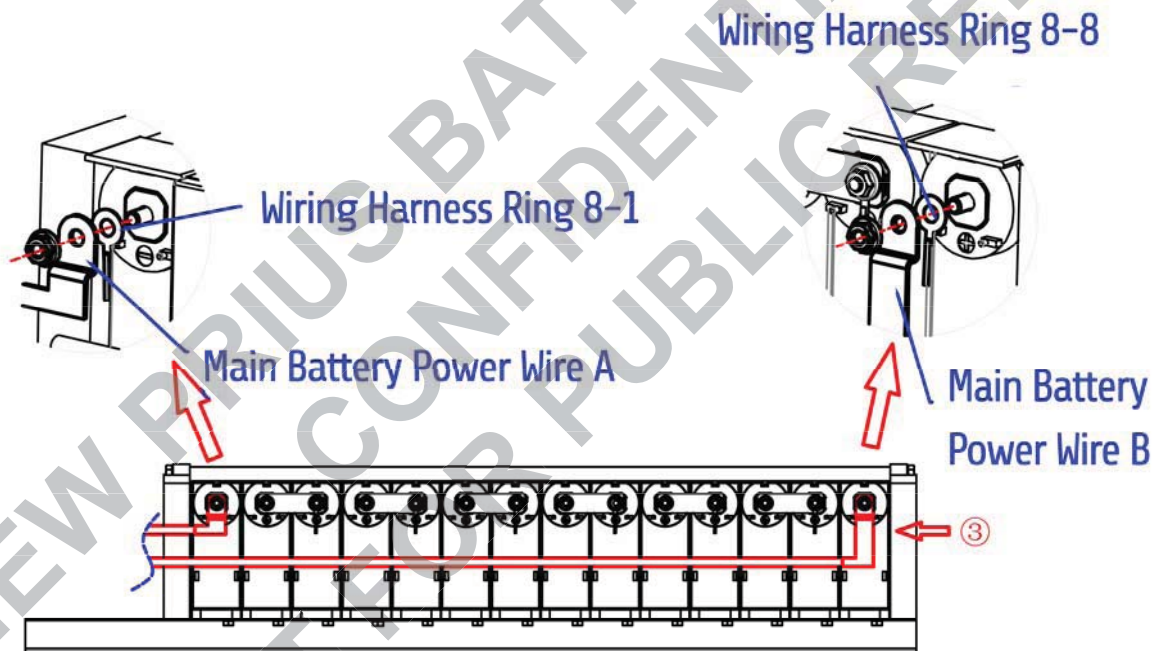
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Push the wiring harness into the provided slots on the plastic pieces the secure them. (MODIFY FOR NEW PLASTIC DESIGN)



Attach the positive and negative main wiring harness connectors along with the sensor connectors 8-1 and 8-8



Install the battery plate covers U2 and U3 onto the front of the battery modules.

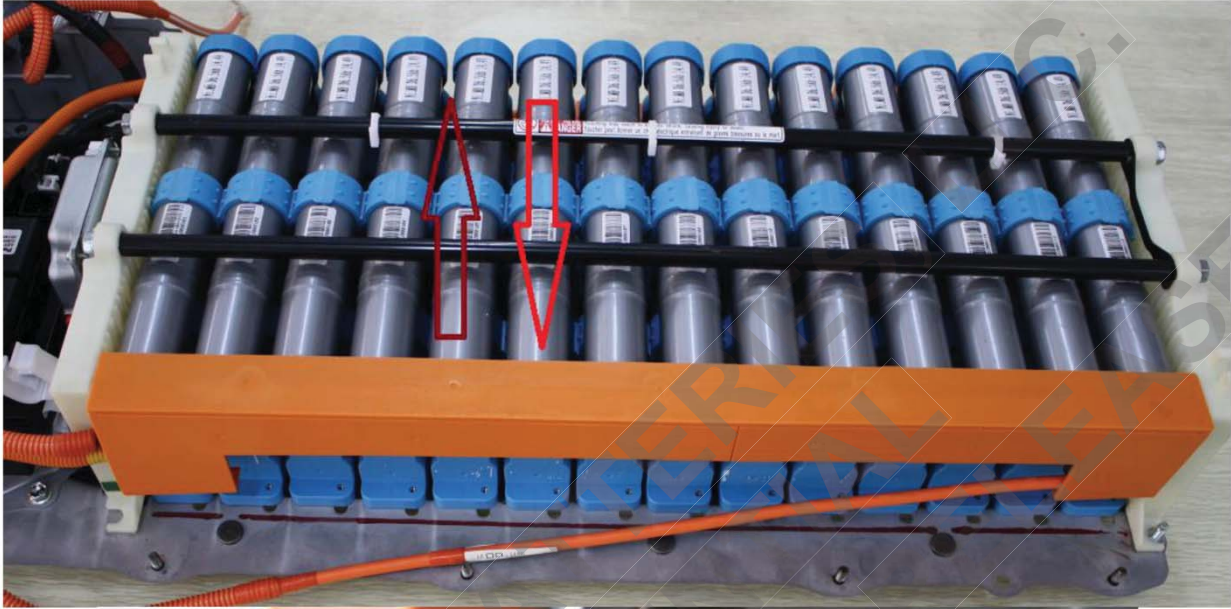
MODIFY FOR NEW PLASTIC DESIGN -

DO NOT DO THIS STEP, IT WILL BE DONE AFTER FULLY ALIGNED INTO METAL CASE...

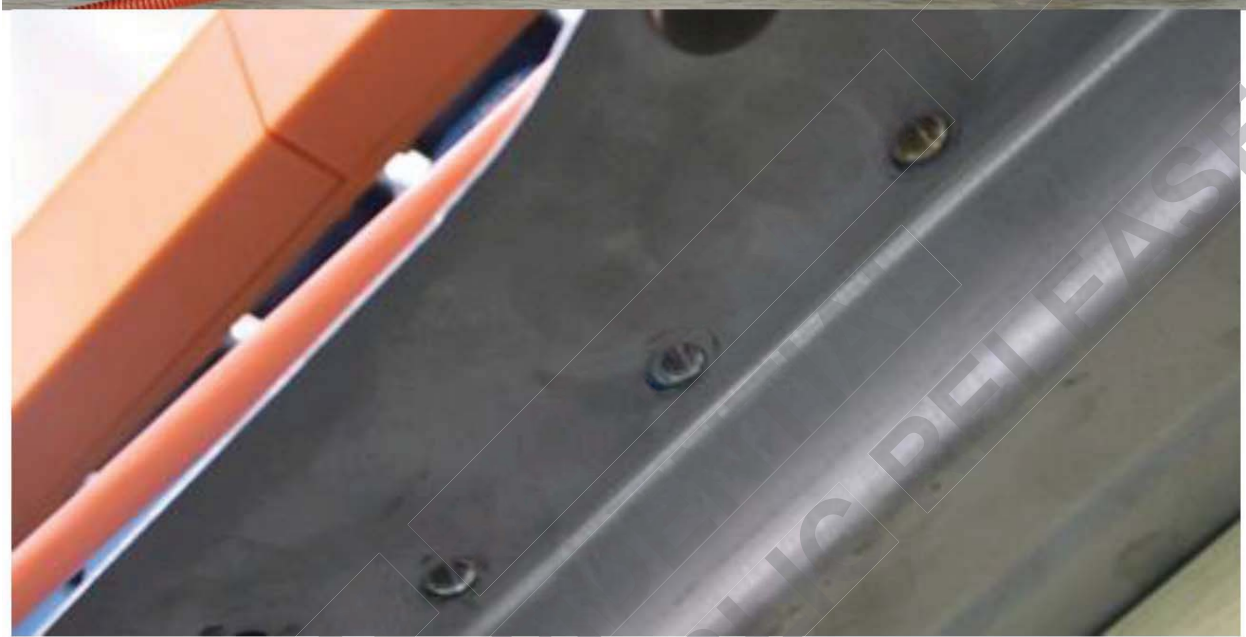


Move the module assembly gently back and forth to align the battery modules with the original metal case's holes.

MODIFY FOR NEW PLASTICS TO NOT SHOW D1/D2/D3 PLASTIC COVERS IN IMAGE



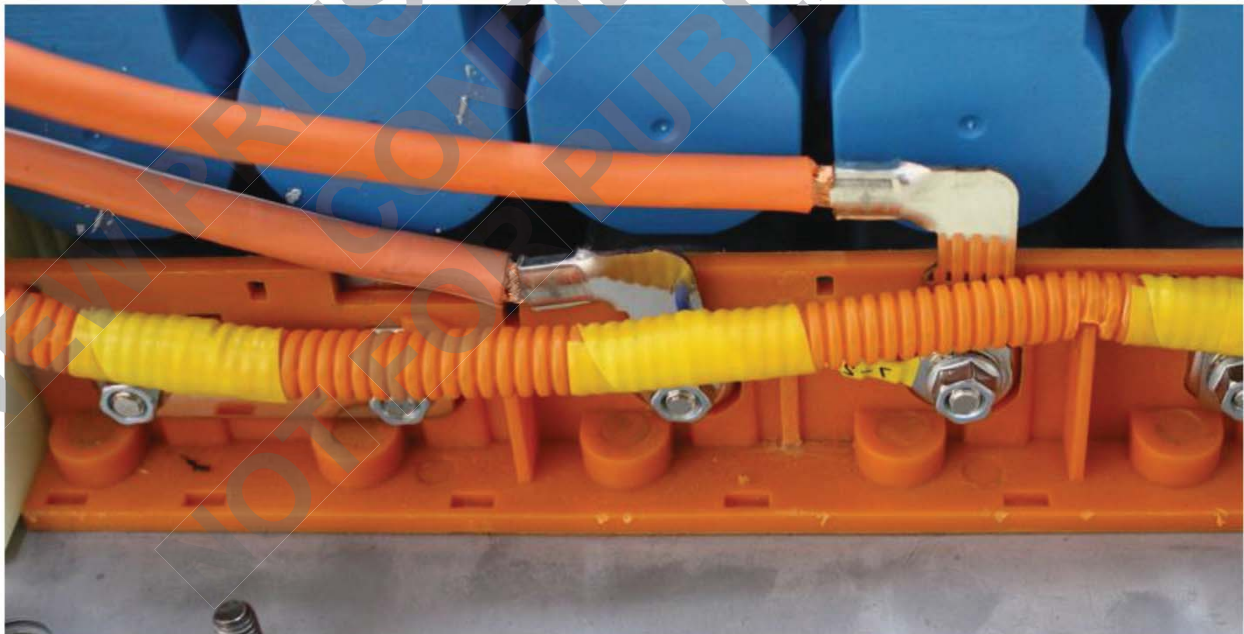
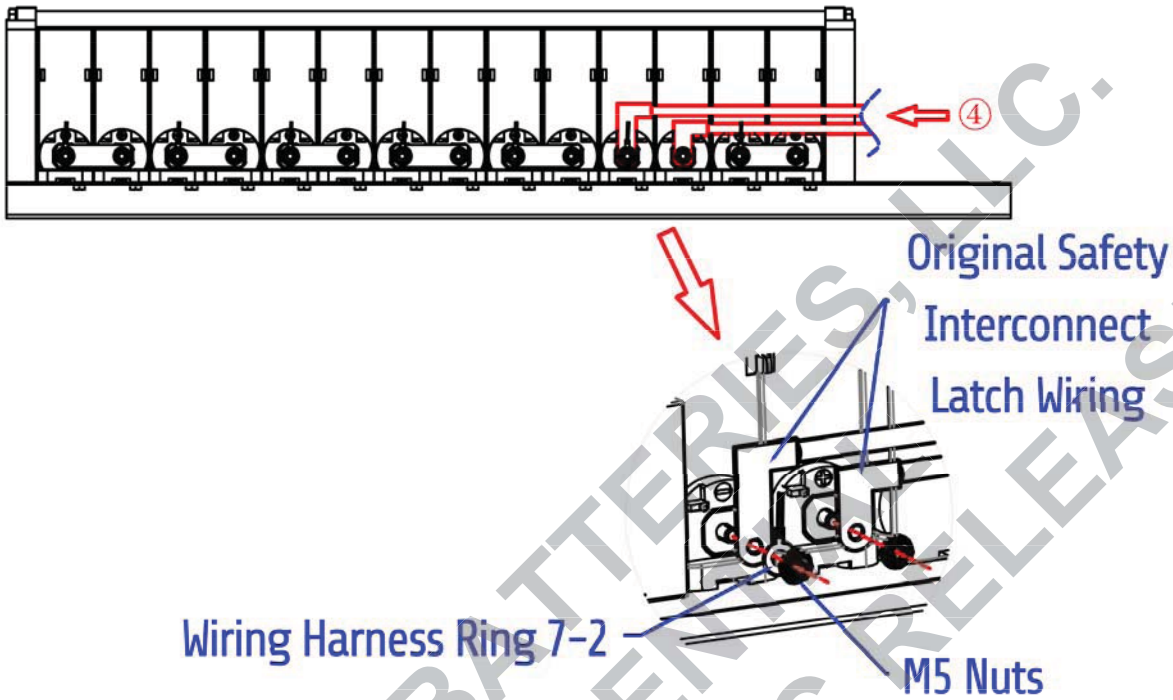
This is where assembling the battery pack on a heavy duty table comes in handy. Ensure your table is sturdy and level. The battery pack at this point will weigh almost 100 pounds, and if it falls not only will it be damaging to the battery, it will most likely destroy your floor and any part of your body in the process. Very carefully move the entire battery assembly in the metal case to the edge of the table. Make sure to only move the assembly the absolute minimum to expose the holes to screw into the battery modules themselves. Move the batteries as to align the threaded holes with the holes in the metal enclosure.



Screw the 5-6 bolts (F) into the battery modules from the bottom. Do not fully tighten. It will take more time and rotations, but will be better in the end. After you have finished loosely tightening all the bolts on one side, push the entire assembly back onto your sturdy table, rotate 180 degrees, and pull the pack off the edge of the table again to expose the holes on the other side. Screw the rest of the bolts into the battery modules, again loosely. Once all the bolts are fully installed, then start tightening them. Tighten these bolts to 14 ft-lbs or 19 Nm. Push back, rotate, and pull the pack again to get to the first side and finish tightening those bolts fully as well.



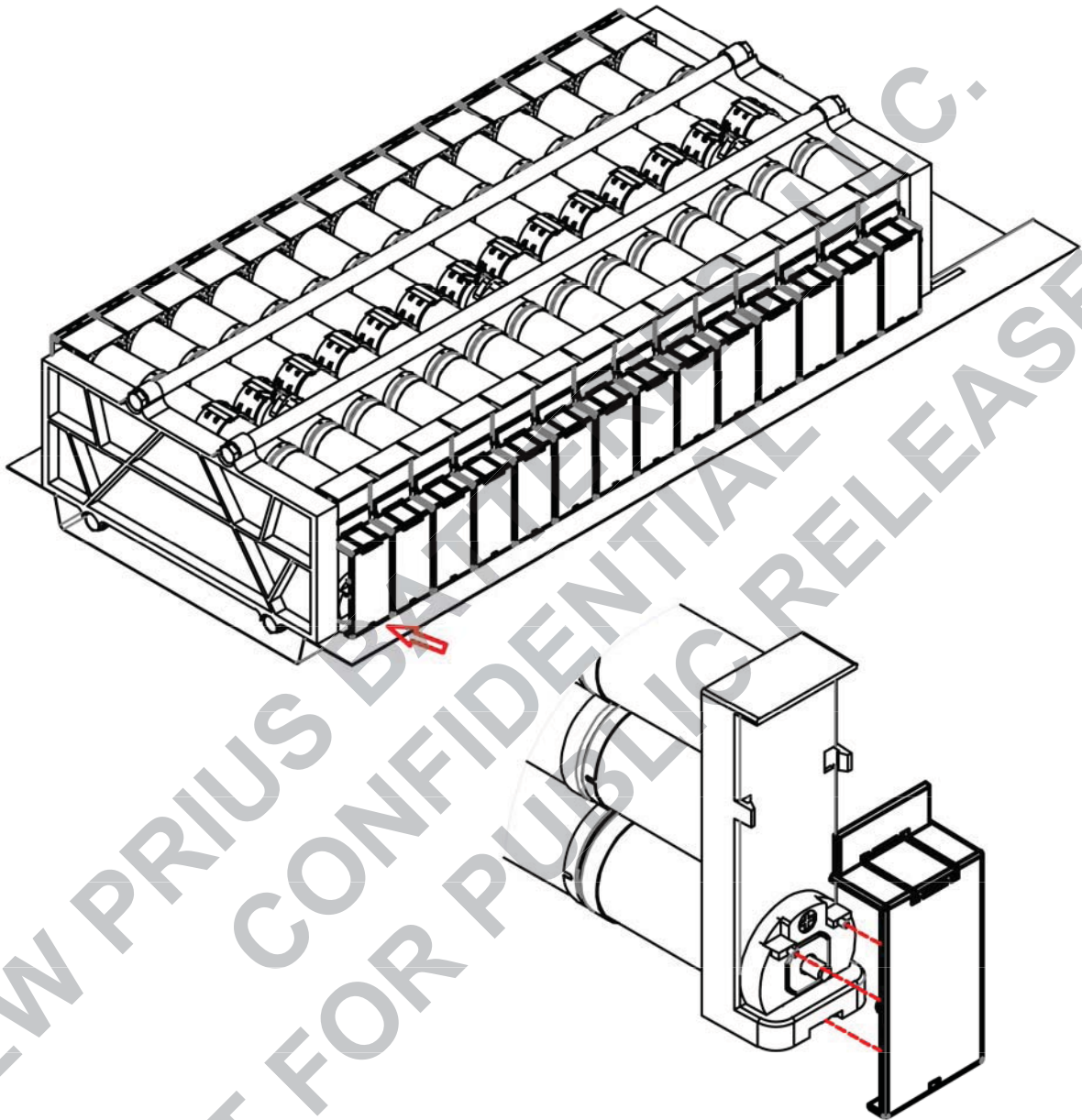
Now install the original safety-interconnect wiring harness and the 7-2 sensor connector from the wiring harness.





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Now install all the black plastic module safety cover plates as shown.



Now tighten the bracket bolts that squeeze the pack together to 4 ft-lbs or 5.5 Nm.



END OF PHASE 2

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