

**Campaign code.**  
L73X-A.06.18

**Campaign description.**  
Replacement of E-gear pump relay

**Model.**  
Aventador

**Model year.**  
From 2012 to 2019

**Special or Limited Versions.**  
All versions

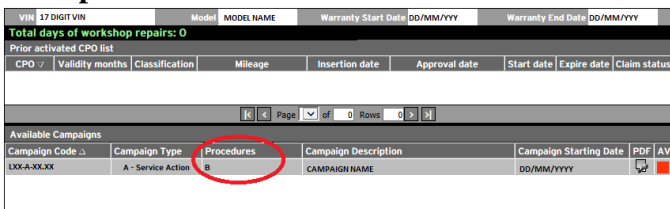
**Markets.**  
All

**VIN identification:**  
From CLA00091 to HLA07851

**Warning:** before starting with the repair, log into the Warranty portal and check through VIN Info:

- The vehicle is effectively involved by these bulletin instructions; some cars may not be included even when they are in the VIN range.
- The procedure identified by a letter (e.g. A, B or C....etc. whose differences are explained below in this bulletin), taking care to order and use the parts corresponding to the assigned procedure.

**Example**



VIN	17 DIGIT VIN	Model	MODEL NAME	Warranty Start Date DD/MM/YYYY	Warranty End Date DD/MM/YYYY			
Total days of workshop repairs: 0								
Prior activated CPO list								
CPO	Validity months	Classification	Mileage	Insertion date	Approval date	Start date	Expire date	Claim status
Available Campaigns								
Campaign Code	Campaign Type	Procedures	Campaign Description	Campaign Starting Date	PDF	AV		
L00A00000	A - Service Action	B	CAMPAIGN NAME	DD/MM/YYYY				

 **NOTE**

Procedure A will be available only when the instructions require to carry out a preliminary control to determine whether or not a vehicle needs to be updated.

**Information to the field**

Due to continuous product monitoring, Automobili Lamborghini Spa has introduced a new relay for e-gear pump.

**Field solution.**

Update the car following the herein reported instructions.

**Spare parts.**

Order the following part number which are connected to the operation required:

- Operation B – Replacement relay

P/N	Description	Q
470927843	New relay	1

**Replaced parts management.**

Store properly and label the parts replaced with the barcode form for their identification during Area Manager visits.

**Labour time**

- Operation B: 1,33 h

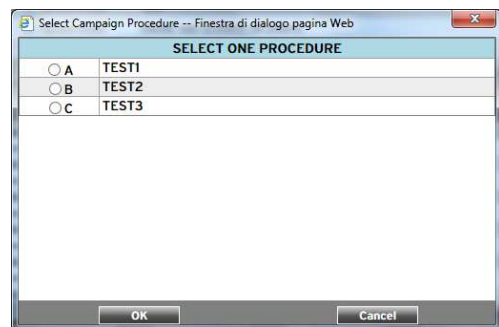
**Substituted former Bulletins.**

None.

**Warranty Claim instructions**

To claim the reimbursement log into the warranty system management on the Lamborghini Portal and consults the manual “W.Claim “ available on the portal for the download .

Select the desired campaign and go on with the claim insertion, read carefully the windows message content and choose the option button corresponding to the operation performed .



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To: **Official After Sales Network**  
Subject: **Replacement of E-gear pump relay**  
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On the base of the chosen option the reimbursement will be:

- OPTION B, *Replacement relay*  
manpower: *1.33 hours*  
spare parts: *470927843*



**ATTENTION!**

Attach all documents produced during the vehicle visit that show evidence of the work performed such as repair order, software protocols or acquisitions...etc.; the lack of one or more of those, may deny the reimbursement.

Remember to fill in all data in the section “Service and Recall Campaign” in the Warranty booklet of the vehicle as shown below.

**Necessary tools/material.**

P/N	Description	Q
-	-	-



**IMPORTANT: Before you follow the instructions in this service campaign, you need to install the SD-Creator program. The instructions for installing SD Creator are contained in the bulletin: "BI.09.17\_ [ENG] \_SD-Creator installation package procedures".**

**Removing/Installing the cowl top cover side, front.**



1. Remove the 6 screws.



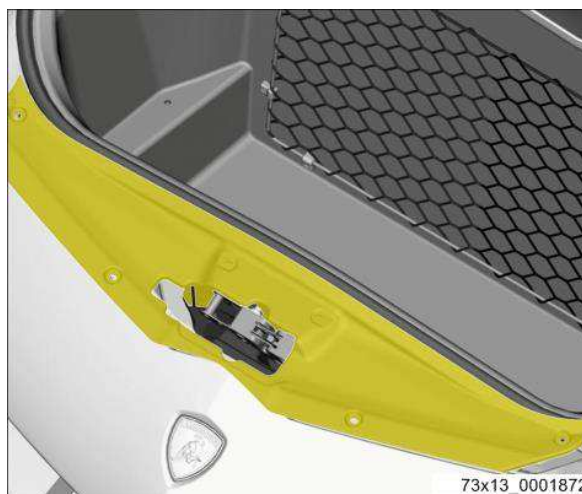
**Notes for re-installation.**

Tighten the screws.

Tightening torque: **2.50 Nm ( 1.84 lbf ft )**.



2. Remove the front internal bumper guard.





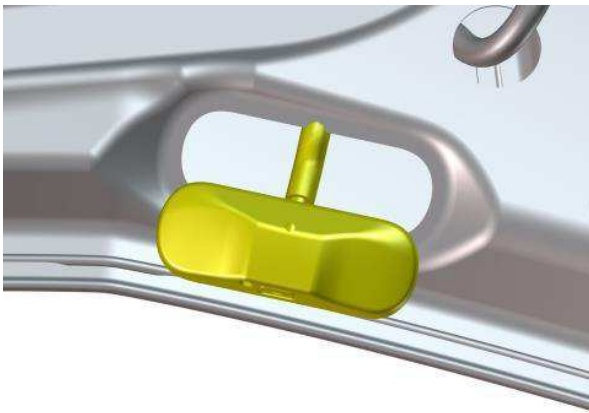
### Removing/Installing the windshield washer nozzle, left and right side.



#### Warning

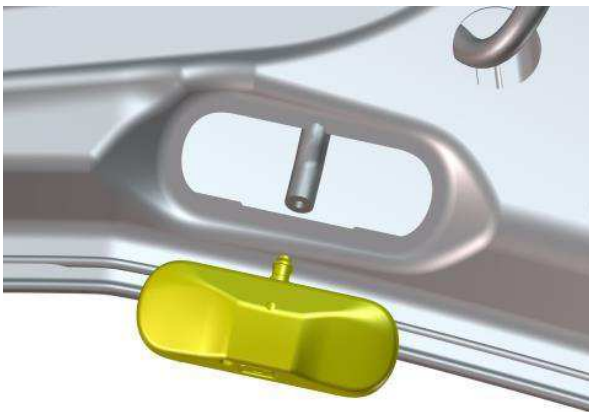
This procedure can be used on both the right and the left sides.

3. Remove the windshield washer nozzle from the luggage compartment lid.



73x13\_0004735

4. Disconnect the windshield washer feed tube from the nozzle.



73x13\_0004736

### Removing/Installing the complete luggage compartment.



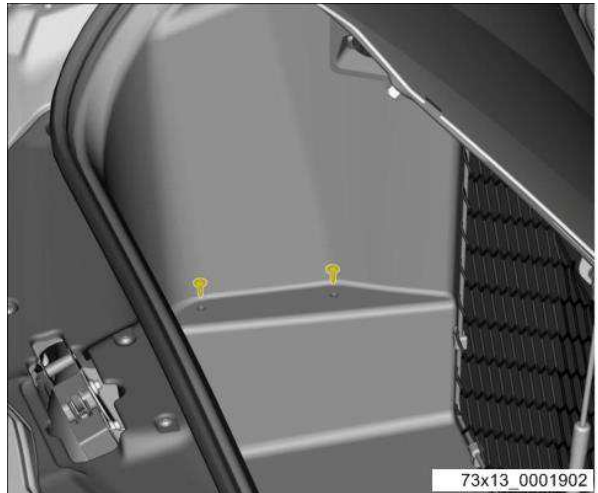
5. Remove the 4 screws that attach the luggage compartment to the chassis.



#### Notes for re-installation.

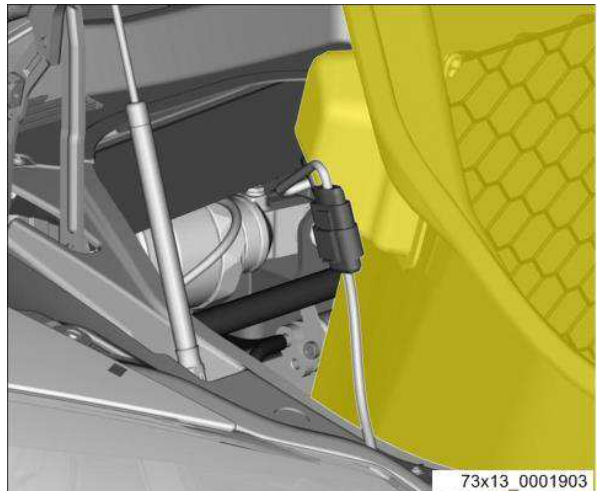
Tighten the screws.

Tightening torque: **8,00 Nm ( 5,9 lbf ft )**.



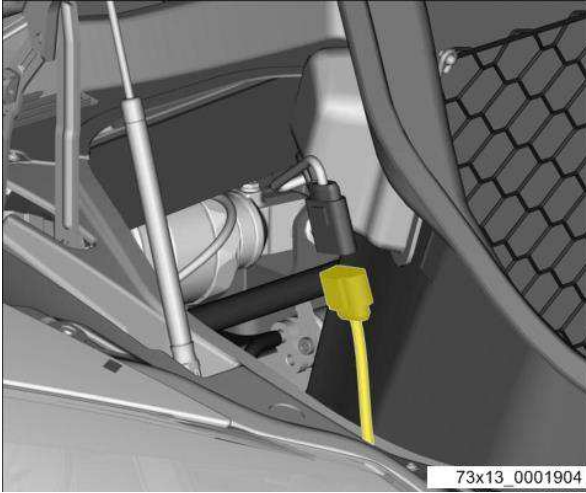
73x13\_0001902

6. Lift the luggage compartment until the connector on the right side appears.

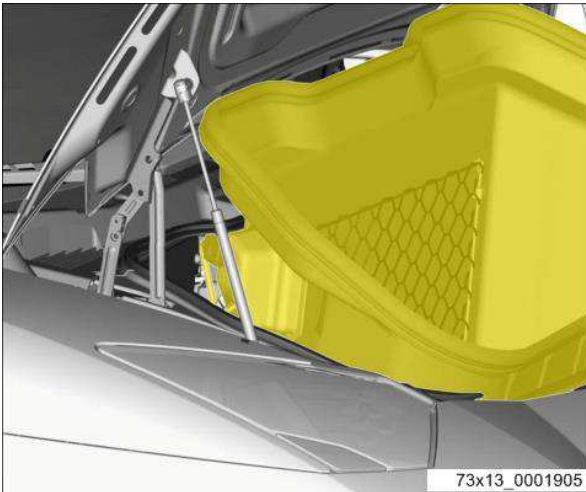


73x13\_0001903

7. Disconnect the power connector for the luggage compartment light and the 12 V socket.



8. Remove the complete luggage compartment.



**Disconnecting/Reconnecting the supercap device.**

**List of tools and material**

Special tool

Code:69195291

Tool for charging/discharging the Supercapacitor.



**ATTENTION**

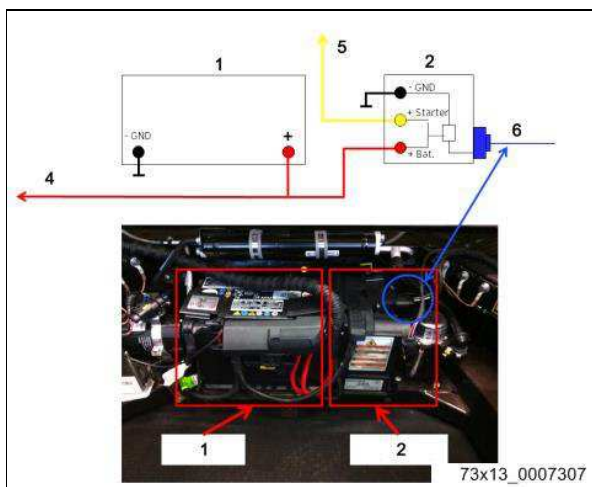
**The device has high electric charge. Operate scrupulously as indicated below. Do not remove the Supercapacitor before discharging its internal current!**



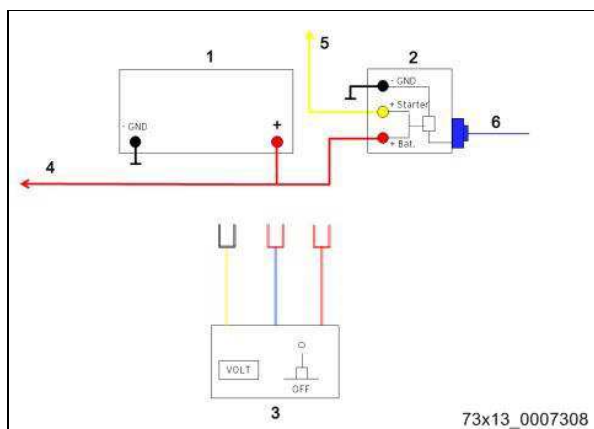
### Connection diagram

#### Legend

1. Battery
2. Supercapacitor
3. Tool for charging/discharging the Supercapacitor [69195291](#)
4. Alternator
5. Starting motor
6. Supercapacitor connector
7. Charge/discharge switch

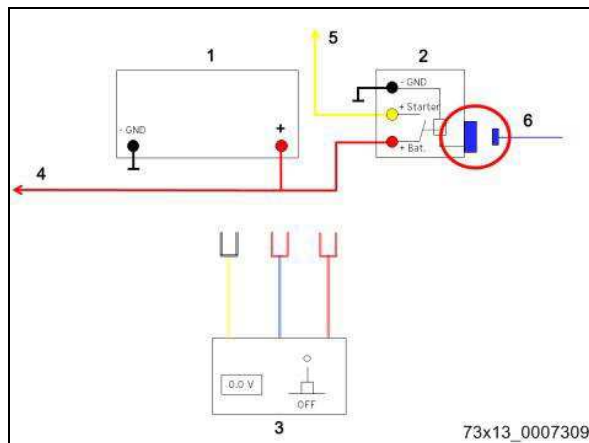


### Connection diagram for Supercapacitor charge/discharge tool



### 9. Preliminary operations

Disconnecting the Supercapacitor connector.



### Connection for Supercapacitor charge/discharge tool

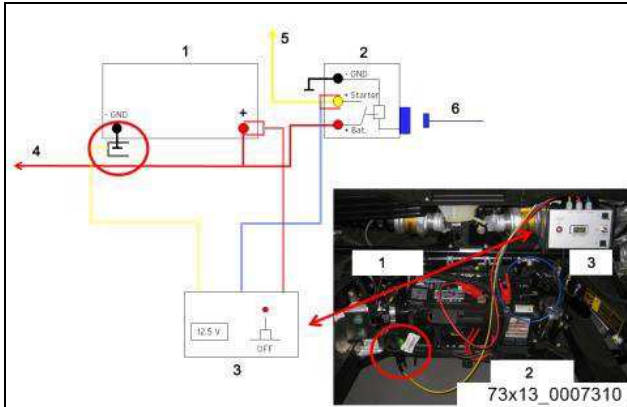
10. Move the switch on the Supercapacitor charge/discharge tool to OFF.
11. Connect the yellow cable with the black clamp to the ground point.



**ATTENTION**  
Do NOT connect the cable directly to the negative terminal (-GND) on the battery.



12. Connect the red cable with the red clamp to the positive terminal (+ Bat.) on the battery, and connect the blue cable with the red clamp to the positive terminal (+ Starter) on the Supercapacitor.



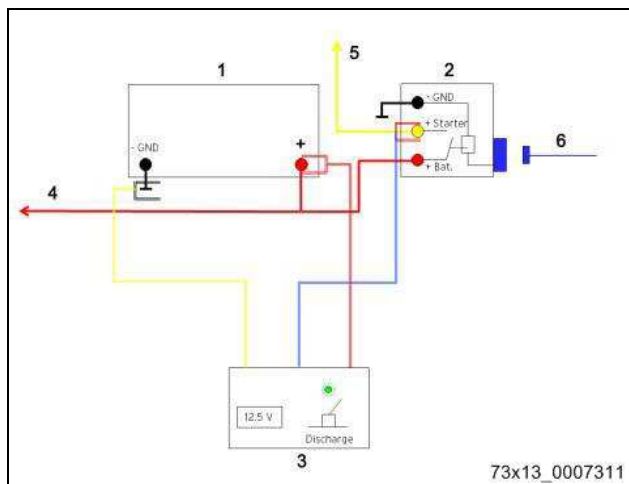
**Supercapacitor discharge procedure**

13. Move the switch on the charge/discharge tool to "DISCHARGE".

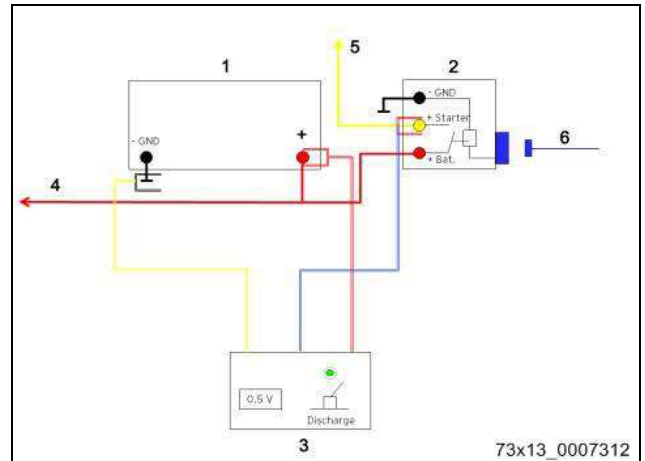


**Warning**

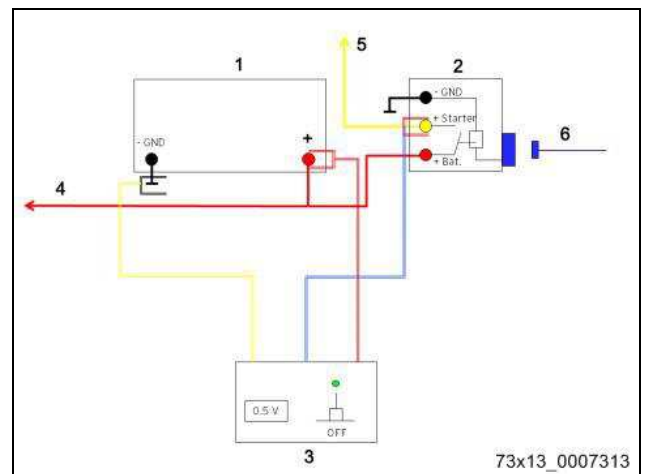
The green indicator light will start to flash.



14. The discharge process will continue until the Supercapacitor voltage shown on the display falls below 0.5 V and the green indicator light comes on steadily.



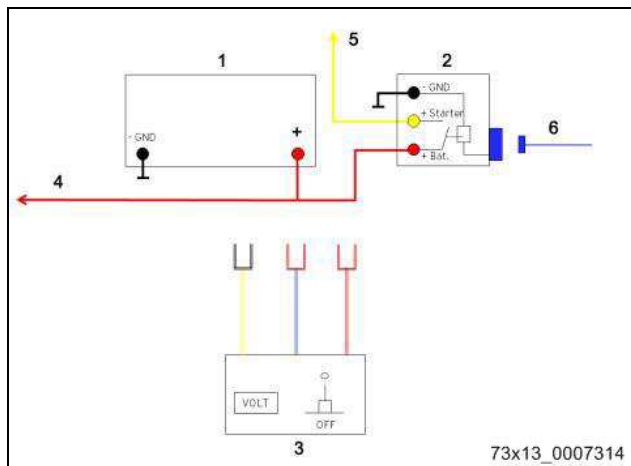
15. Move the switch to OFF.



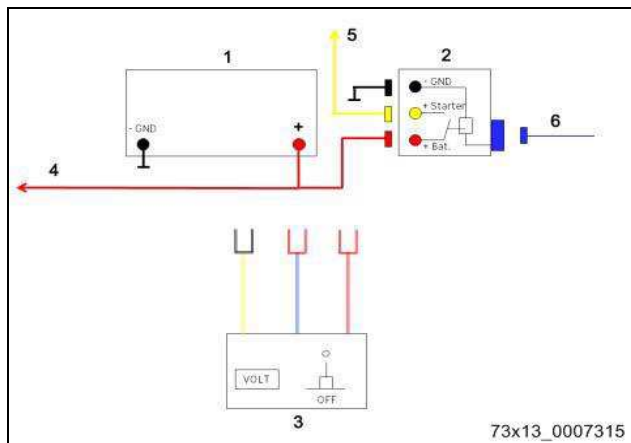


### Disconnecting the Supercapacitor charge/discharge tool.

16. Disconnect the connecting clamps.



17. Disconnect the cables on the Supercapacitor terminals.



18. The Supercapacitor can be removed only at this point.

### Disconnecting/Reconnecting the 58 Ah/340 A battery.



#### ATTENTION

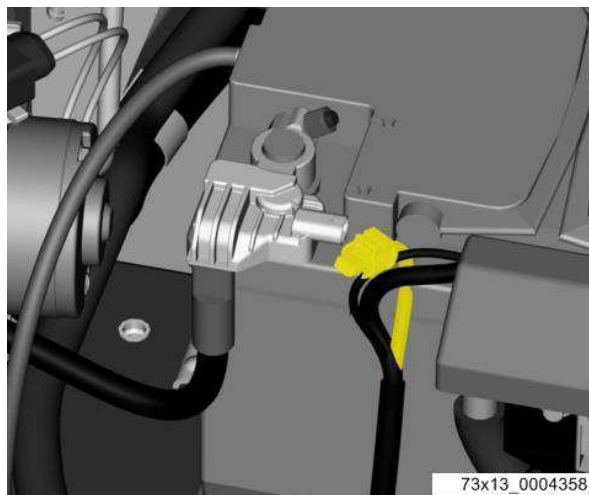
The Supercapacitor connected to the battery has a strong electric charge. Do not remove the battery clamps before discharging the internal current of the Supercapacitor.



#### Warning

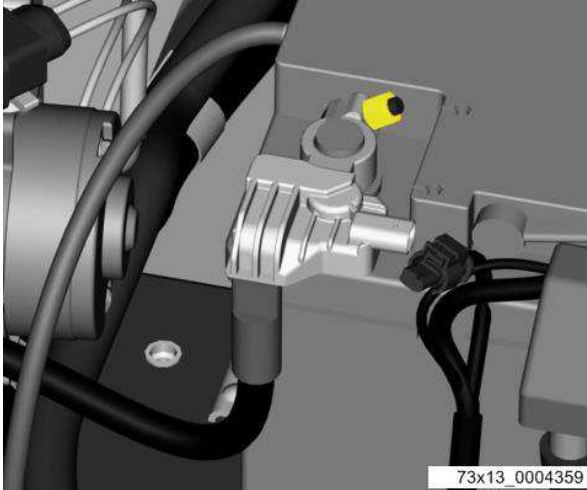
Remember that when the battery is disconnected it will only be possible to open the doors from the outside using the emergency procedure. It is recommended to open the windows; inside the passenger compartment there are levers for opening the hoods.

19. Disconnect the connector from the negative terminal.

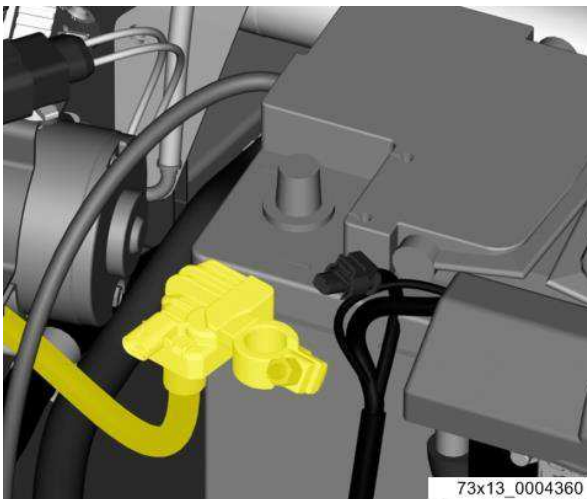




20. Loosen the nut on the negative terminal.



21. Remove the negative terminal.



### Removing/Installing the rear engine cover.



 **ATTENTION**

**Wait until the vehicle is cooled down completely!**

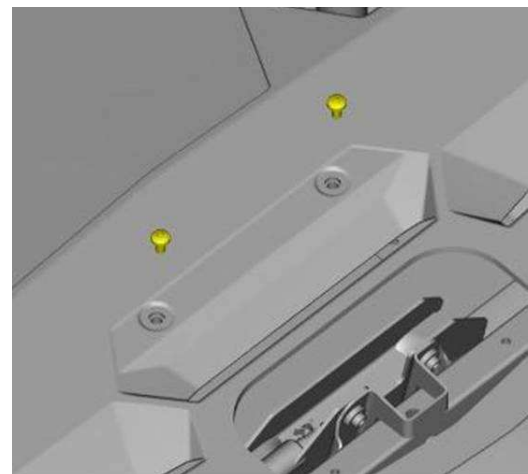
22. Unscrew the 2 screws.



**Notes for re-installation.**

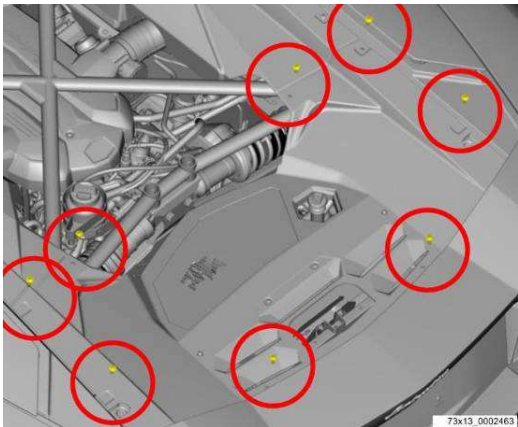
Tighten the screws.

Tightening torque: **6.00 Nm ( 4.43 lbf ft )**.





23. Remove the 8 screws.

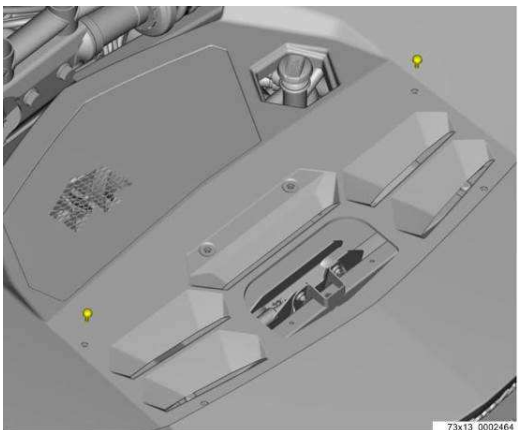


24. Remove the 2 puffers.

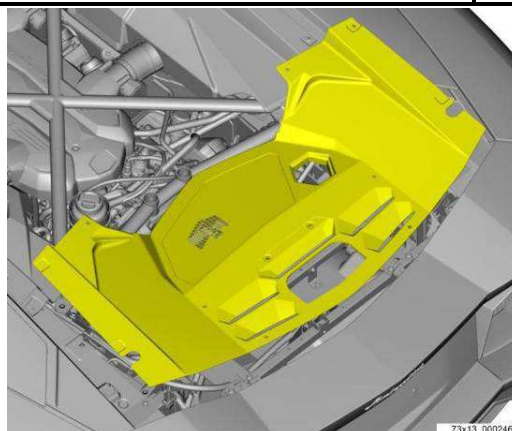


**Notes for re-installation.**

Apply low-strength thread sealant before the installation procedures.



25. Remove the rear finishing panel of the engine compartment.



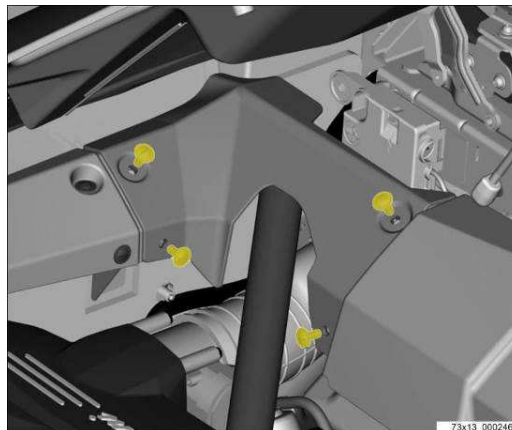
**Removing/Installing the right side engine cover, front section**

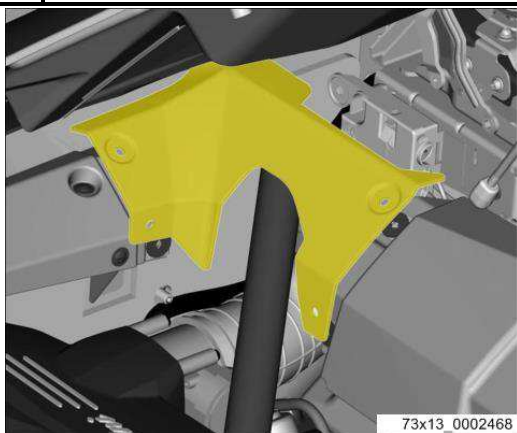


**ATTENTION**

**Wait until the vehicle is cooled down completely!**

26. Remove the 4 screws and remove the right front finishing panel of the engine compartment.





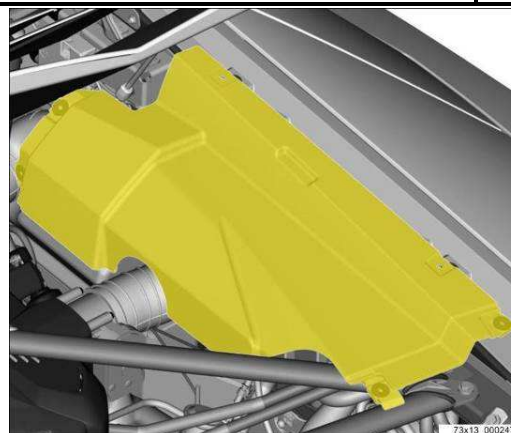
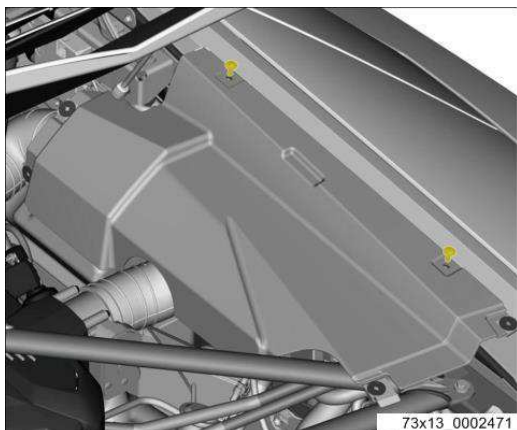
### Removing/Installing the right side engine cover



### ATTENTION

Wait until the vehicle is cooled down completely!

27. Remove the 2 screws and remove the right finishing panel of the engine compartment.



### Replacement relay

28. Remove the two screws of the fuses/relays box cover.



29. Locate the correct relay according to the following image (circled in red).



30. Replace the old relay with the new code: 470927843.



**Reinstall**

31. To reinstall follow the removal procedure in reverse order.

**Remember of:**

- Correctly set the time and date on the LIS system (See Use and Maintenance Handbook).
- Run the routine for learning the position of the windows using the ODIS-Service diagnostic procedures or as described in the Use and Maintenance Handbook.

**Warning**

**Below the procedure for reconnecting the supercap device.**

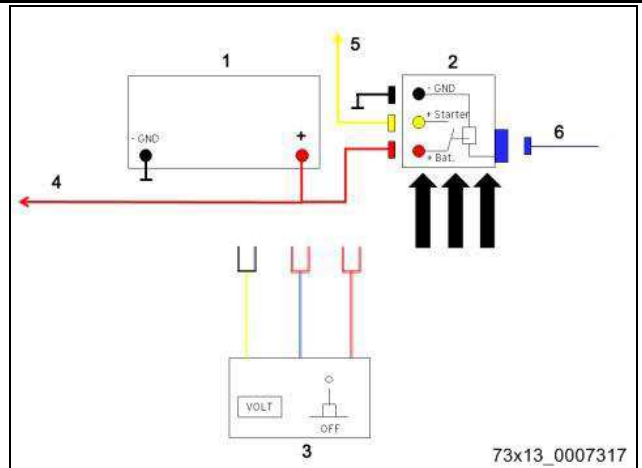
32. Install the Supercapacitor



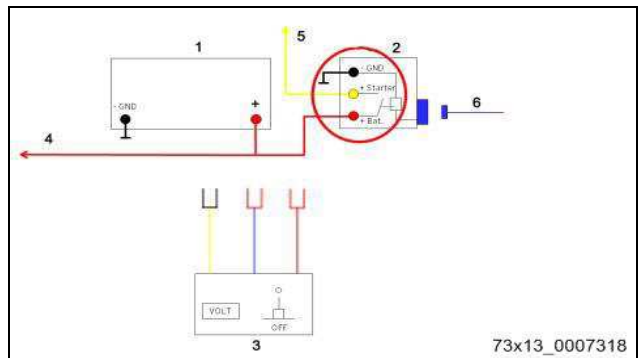
**ATTENTION**

**The Supercapacitor must be discharged when it is handled.**

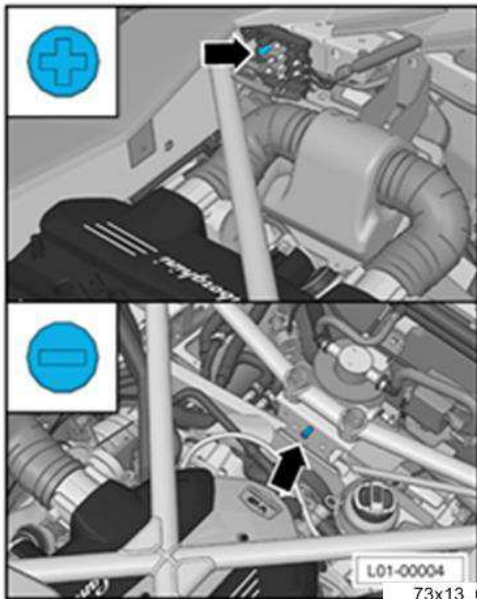
**Never use other devices (such as a battery charger) to charge the Supercapacitor. Use only the specific tool supplied by Automobili Lamborghini.**



33. Connect the cables to the Supercapacitor terminals.



34. Connect a battery charger to the charge points provided in the engine compartment, as shown in the figure.



73x13\_0007319



**ATTENTION**

Do not connect the Supercapacitor connector at this point.

- 35. Move the switch on the Supercapacitor charge/discharge tool to OFF.
- 36. Connect the yellow cable with the black clamp to the ground point.



**ATTENTION**

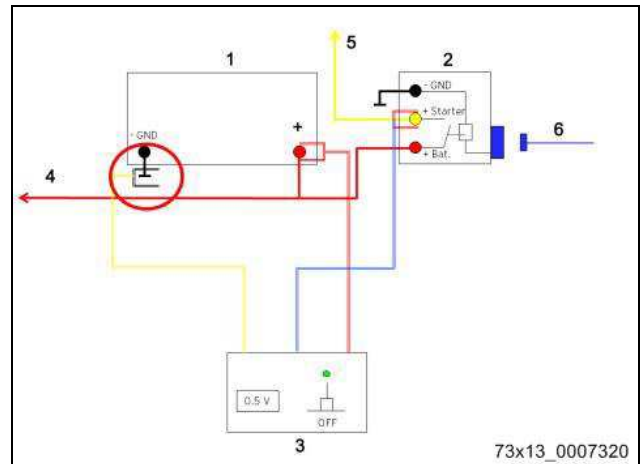
Do NOT connect the cable directly to the negative terminal (-GND) on the battery.

- 37. Connect the red cable with the red clamp to the positive terminal (+ Bat.) on the battery, and connect the blue cable with the red clamp to the positive terminal (+Starter) on the Supercapacitor.



**Warning**

The green indicator light on the tool will come on when Supercapacitor voltage falls below 0.5 V.



73x13\_0007320

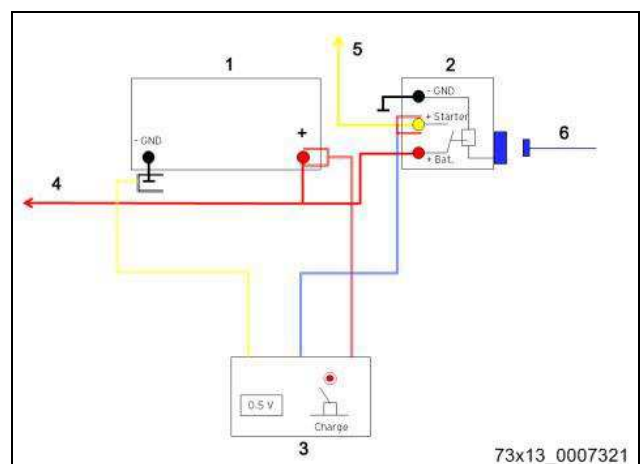
**Procedure for charging the Supercapacitor**

- 38. Move the switch on the charge/discharge tool to "CHARGE".



**Warning**

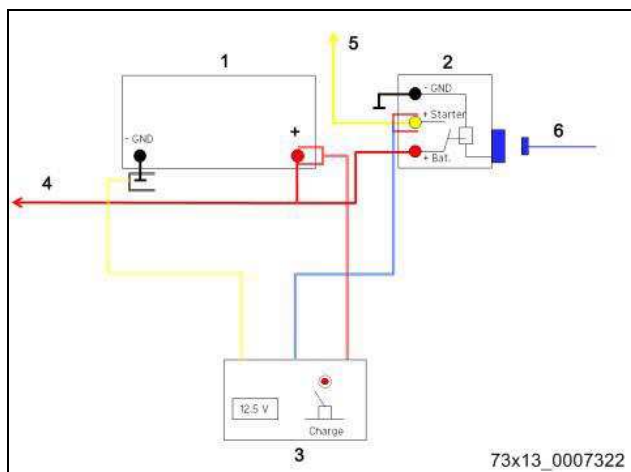
The red indicator light will start to flash.



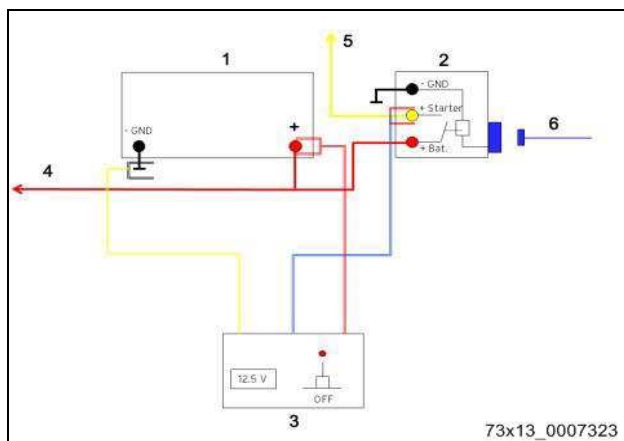
73x13\_0007321



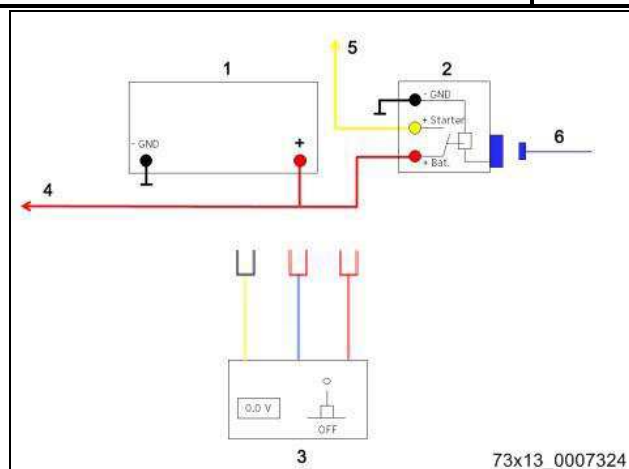
39. The charging process will continue until the Supercapacitor voltage shown on the display exceeds 12.5 V and the red indicator light comes on steadily.



40. Move the switch to OFF.



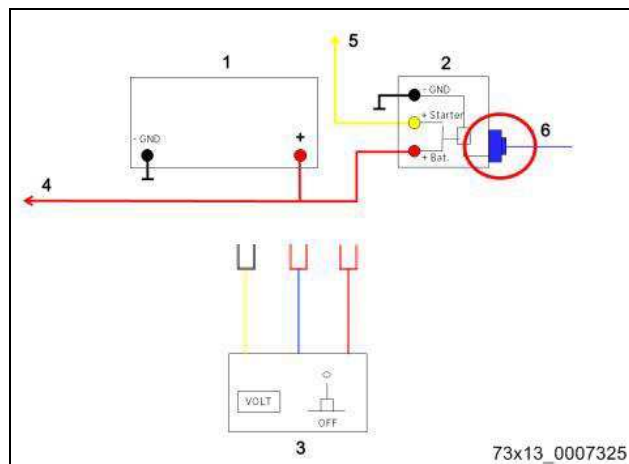
41. Disconnect the connecting clamps.



### Reconnecting the Supercapacitor


42. Reconnect the Supercapacitor connector.

After restoring the connections and charging the Supercapacitor, connect the ODIS-Service diagnostic tool and delete the errors that were generated when the Supercapacitor was removed.



### IMPORTANT:

After the replacement of the relay, make sure to setup the correct time in the car and perform re-adaptation of the side windows.

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### Codice Campagna

L73X-A.06.18

### Nome della Campagna

Sostituzione relè pompa cambio e-gear

### Modello

Aventador

### Model year.

Da 2012 to 2019

### Versioni speciali o limitate.

Tutte le versioni

### Mercati.

Tutti mercati.

### Identificazione del VIN.

Da CLA00091 a HLA07851

**Attenzione:** prima di cominciare con la riparazione, collegarsi al Portale garanzia e controllare attraverso VIN Info che

- La vettura sia effettivamente coinvolta dalle istruzioni di questo bollettino; alcune macchine potrebbero non esserlo anche quando il loro VIN è incluso.
- La procedura identificata da una lettera (e.s. A, B or C....etc. le cui differenze saranno spiegate di seguito in questo bollettino), avendo premura di impiegare i ricambi corrispondenti alla procedura assegnata.

#### Example

VIN	17 DIGIT VIN	Model	MODEL NAME	Warranty Start Date	DD/MM/YYYY	Warranty End Date	DD/MM/YYYY	
Total days of workshop repairs: 0								
Prior activated CPO list								
CPO /	Validity months	Classification	Mileage	Insertion date	Approval date	Start date	Expire date	Claim status
<div style="text-align: center;"> <span>«</span> <span>»</span> Page <input type="text" value="0"/> Rows <input type="text" value="0"/> <span>»</span> </div>								
Available Campaigns								
Campaign Code	Campaign Type	Procedures	Campaign Description	Campaign Starting Date	PDF	AV		
LXX-XXXX	A - Service Action	B	CAMPAIGN NAME	DD/MM/YYYY				



#### Note

La procedura A sarà disponibile solo quando le istruzioni richiedono di eseguire un controllo preliminare per determinare se la vettura necessita o meno di essere aggiornata.

### Informativa alla rete:

Come risultato del continuo monitoraggio del prodotto, Automobili Lamborghini Spa ha intro-

dotto un nuovo relè per la pompa del cambio e-gear su Aventador.

Seguire la seguente procedura per la sostituzione in vettura.

### Soluzione alla rete:

Aggiornare la vettura seguendo le istruzioni riportate in questo bollettino.

### Parti di ricambio

Nuovo relè: 470927843

Ordinare i seguenti codici i quali sono legati all'operazione richiesta:

- Operazione B – Sostituzione relè

Cod.	Descrizione	Q
470927843	Nuovo relè	1

### Gestione pezzi sostituiti.

Immagazzinare i particolari rimossi dalla vettura in modo appropriato corredati dal loro codice a barre per la loro identificazione durante le visite dell'Area Manager competente

### Tempo manutenzione

- Operazione B, 1,33 Ora

### Bollettini sostituiti.

Nessuno.

### Istruzioni per le garanzia .

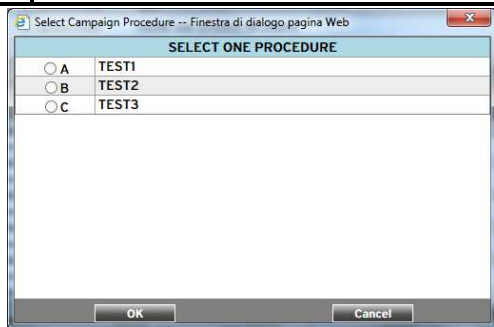
Per richiedere il rimborso dell'azione correttiva eseguita, accedere nel sistema informatico Garanzie sul Portale Lamborghini e seguire le istruzioni per inserimento "Campagne" presente nel manuale W.Claim scaricabile dal Portale.

Selezionare la campagna richiesta e procedere all'inserimento, leggere attentamente le opzioni presenti nel messaggio di allerta apparso nel sistema (vedere esempio) e scegliere l'opzione eseguita in vettura.

Rev.01	<p>The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.</p>	14/26
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L73X-  
A.06.18

To: **Official After Sales Network**  
Subject: **Replacement of E-gear pump relay**  
Date: **28 September 2018**  
Pages: **26**



istruzioni per l'installazione del SD-Creator sono contenute nel bollettino "BI.09.17\_[ENG]\_SD-Creator installation package procedures".

In base all'opzione eseguita il rimborso si articola nel seguente modo:

- **OPZIONE B: sostituzione relè in vettura.**  
manodopera: 1,33 Ora.  
Ricambi: p/n 470927843



**ATTENZIONE!**

Allegare tutti i documenti prodotti durante lavorazione a evidenza dei lavori eseguiti, quali ordini d'officina, protocolli di diagnosi etc. la mancanza di uno o più di essi può essere causa di rigetto della richiesta di rimborso.

Compilare il libretto garanzie alla sezione Campagne di richiamo e servizio come mostrato nella figura sottostante.



**IMPORTANTE:**

Prima di eseguire le istruzioni riportate nella campagna di servizio, si deve installare il programma SD-Creator. Le



### A. Smontaggio copertura curvano anteriore



1. Svitare le 6 viti.



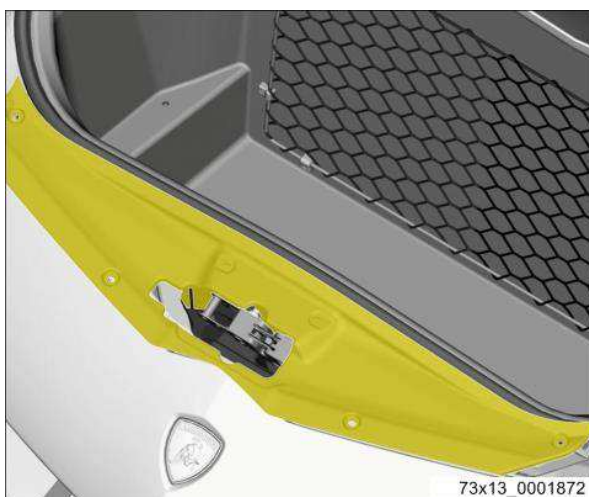
#### Note per il rimontaggio

Fissaggio viti.

Coppia di serraggio: **2,50 Nm ( 1,84 lbf ft )**.



2. Rimuovere la coprisellatura anteriore.



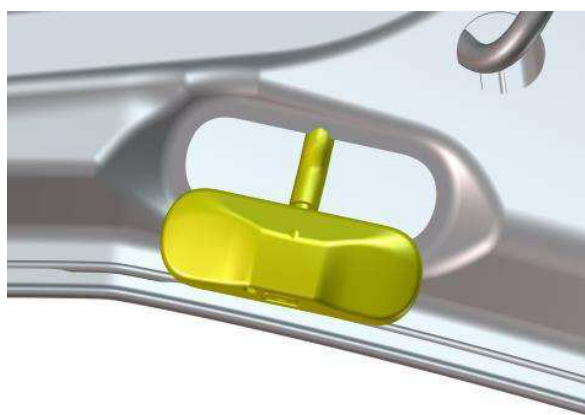
### B. Smontaggio ugello spruzzatore sinistro e destro.



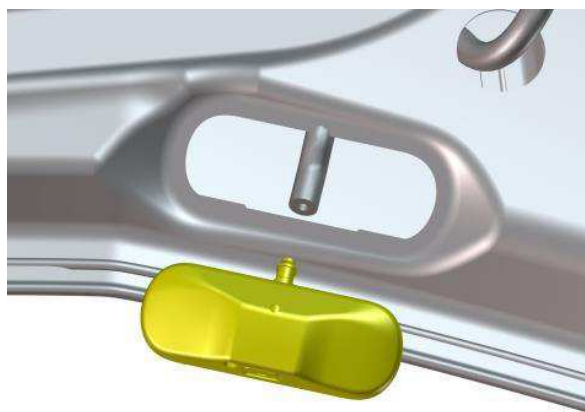
#### ATTENZIONE

Seguire la seguente procedura per entrambi i lati (destro e sinistro).

3. Estrarre l'ugello tergilavafari dal cofano.



4. Scollegare l'ugello tergilavafari dal tubo.





### C. Smontaggio vano baule completo.



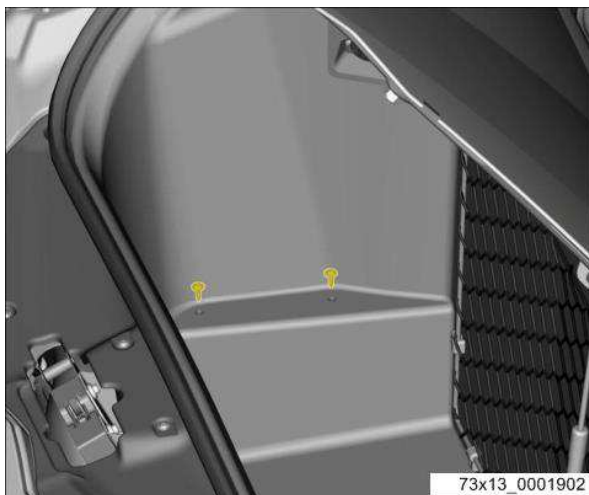
5. Svitare le 4 viti che fissano il baule al telaio.



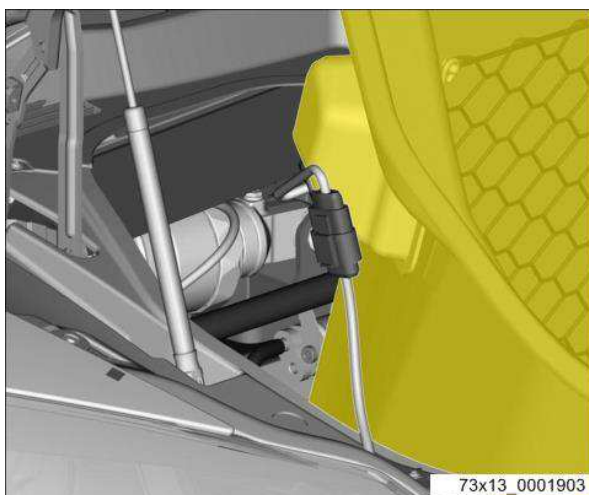
Note per il rimontaggio

Fissaggio viti.

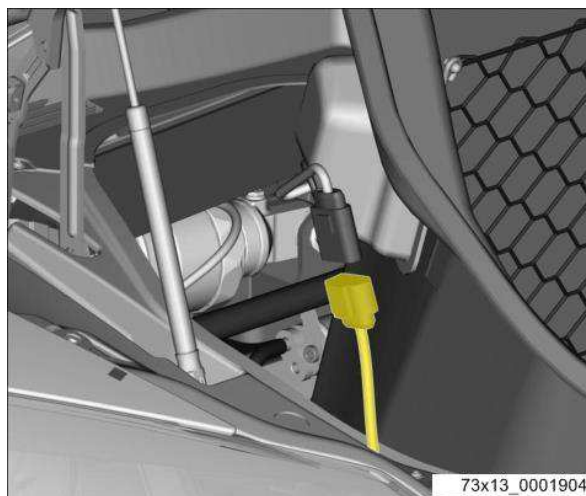
Coppia di serraggio: 8,00 Nm ( 5,9 lbf ft ).



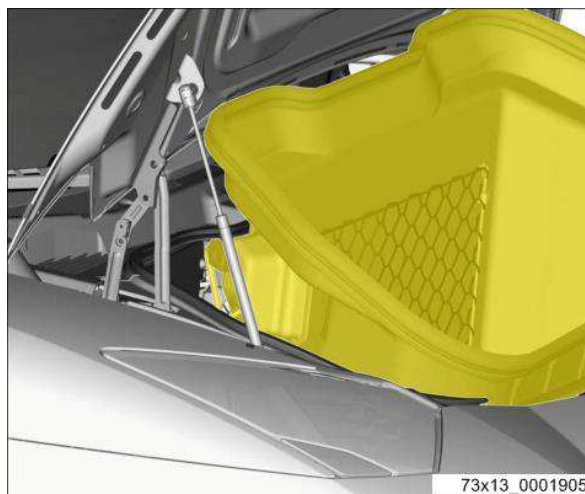
6. Sollevare il baule finché non compare sul lato destro il connettore.



7. Scollegare il connettore di alimentazione della luce interna baule e della presa 12 Volt.



8. Rimuovere il baule completo.





**D. Stacco dispositivo supercap.**

**Attrezzatura necessaria**

Attrezzo specifico  
Cod:69195291  
Attrezzo per scarica/carica Supercapacitore.



TOO\_73x13\_000045



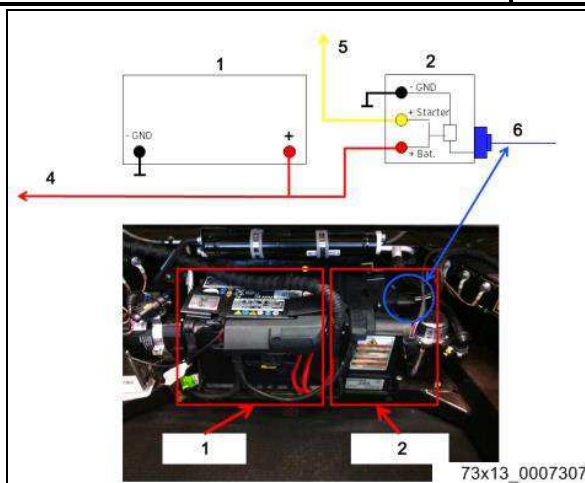
**ATTENZIONE**

**Il dispositivo presenta un'elevata scarica elettrica operare scrupolosamente come indicato. Non procedere alla rimozione del super capacitore se prima non si è provveduto allo scaricamento della corrente interna.**

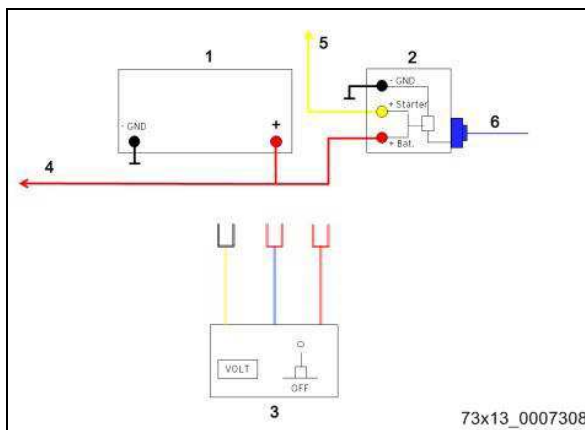
**Schema di collegamento**

**Legenda**

- 1. Batteria
- 2. Super Capacitore
- 3. Attrezzo per scarica/carica Supercapacitore [69195291](#)
- 4. Alternatore
- 5. Motorino di avviamento
- 6. Connettore SuperCapacitore
- 7. Interruttore per Carica/Scarica

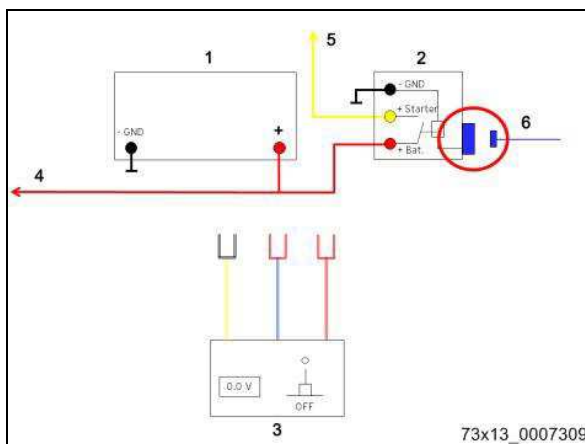


**Schema di collegamento attrezzo carica/scarica SuperCapacitore.**



**Operazioni preliminari.**

- 9. Disconnettere il connettore del SuperCapacitore.





**Collegamento attrezzo per scarica/carica Supercapacitore.**

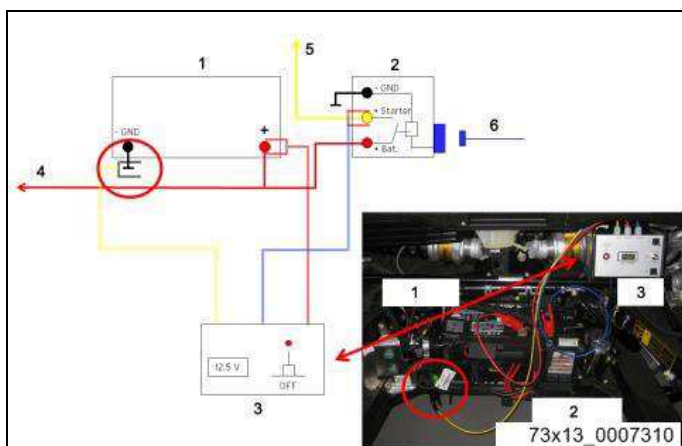
10. Posizionare l'interruttore dell'attrezzo di carica/scarica del SuperCapacitore su «OFF».
11. Collegare il cavo giallo con la pinza nera al punto di massa.



**ATTENZIONE**

**Non collegare il cavo direttamente sul polo negativo (-GND) della batteria.**

12. Collegare il cavo rosso con la pinza rossa al polo positivo (+ Bat.) della batteria e quello blu con la pinza rossa al polo positivo (+Starter) del Super-Capacitore.



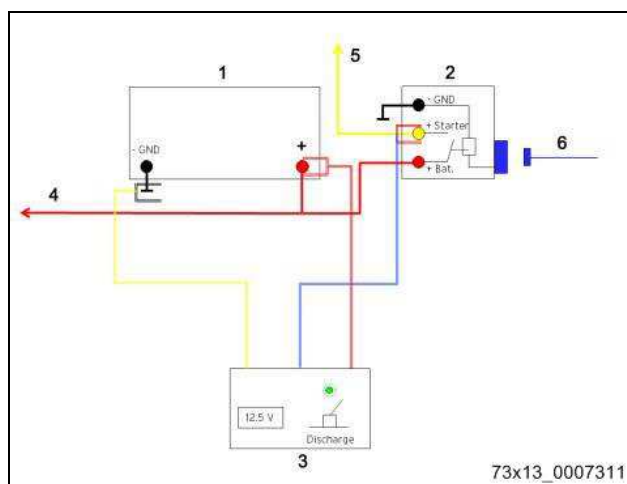
**Procedura di scarica SuperCapacitore.**

13. Posizionare l'interruttore dell' attrezzo su «DISCHARGE».

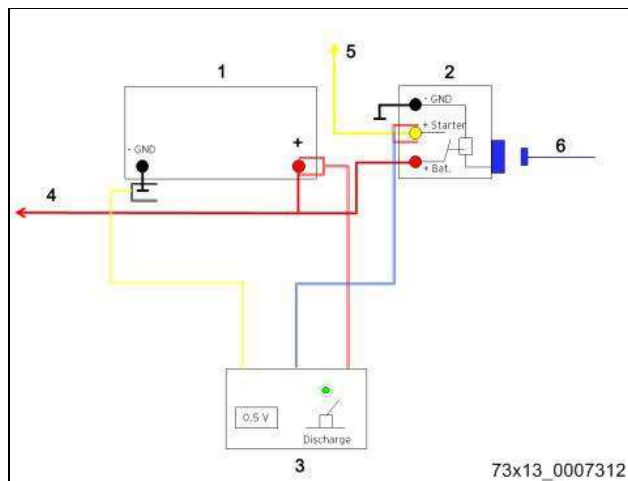


**AVVERTENZA**

La spia verde comincerà a lampeggiare.

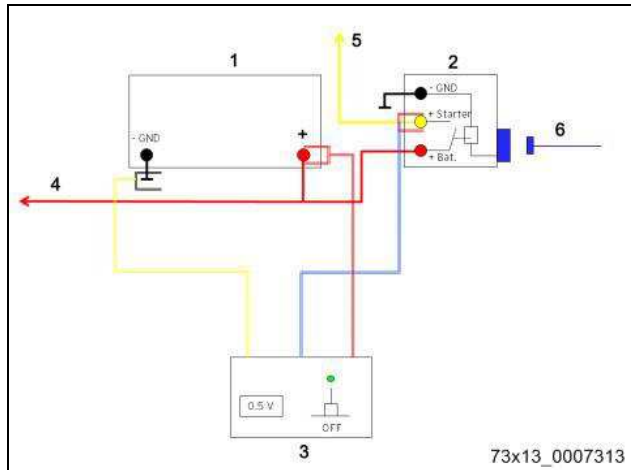


14. La fase di «scarica» proseguirà finchè la tensione del SuperCapacitore indicata sul display sarà inferiore ad 0,5 V e si accenderà la spia verde fissa.

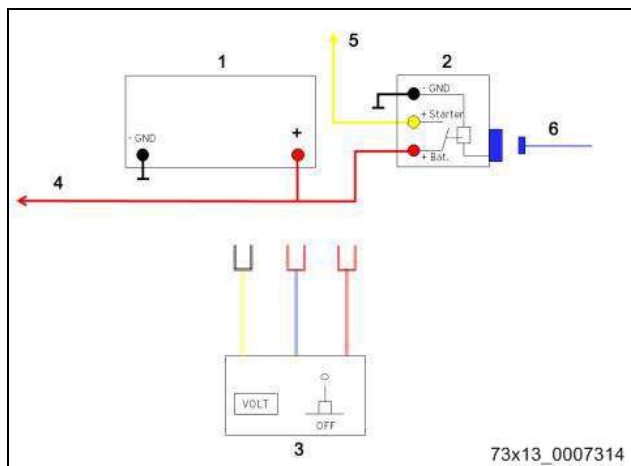




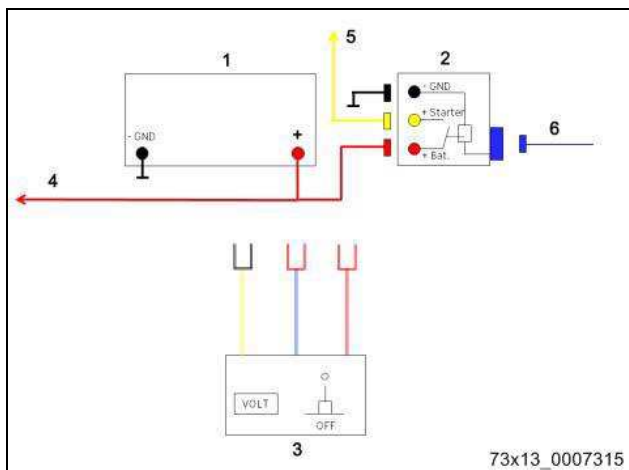
15. Posizionare l'interruttore su «OFF».



16. Scollegare le pinze dell'attrezzo.



17. Scollegare i poli SuperCapacitore.



18. Soltanto adesso è possibile rimuovere il SuperCapacitore.

**E. Stacco Batteria.**



**ATTENZIONE**

**PERICOLO FOLGORAZIONE**

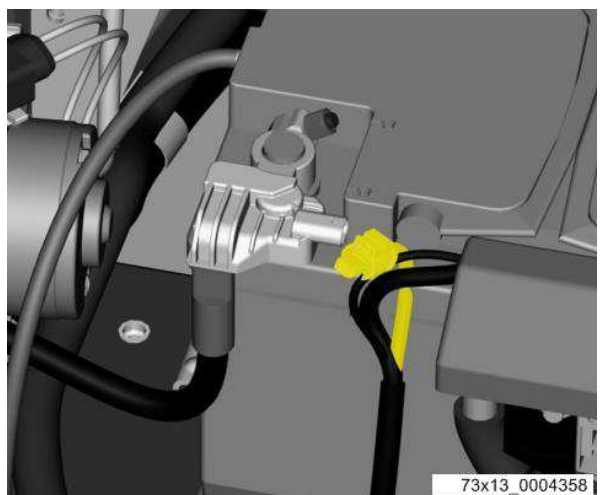
Il supercapacitore collegato alla batteria presenta un'elevata carica elettrica. Non procedere alla rimozione dei morsetti batteria se prima non si è provveduto allo scaricamento della corrente interna del supercapacitore! (Vedi operazione D).



**AVVERTENZA**

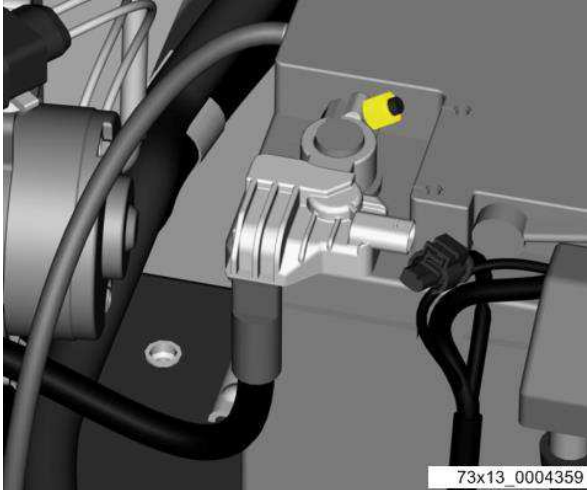
Ricordarsi che scollegando la batteria le porte saranno apribili dall'esterno solamente con procedura di emergenza. Si consiglia di aprire i finestrini, all'interno dell'abitacolo è presente la leva per l'apertura del cofano.

19. Scollegare il connettore dal morsetto negativo.

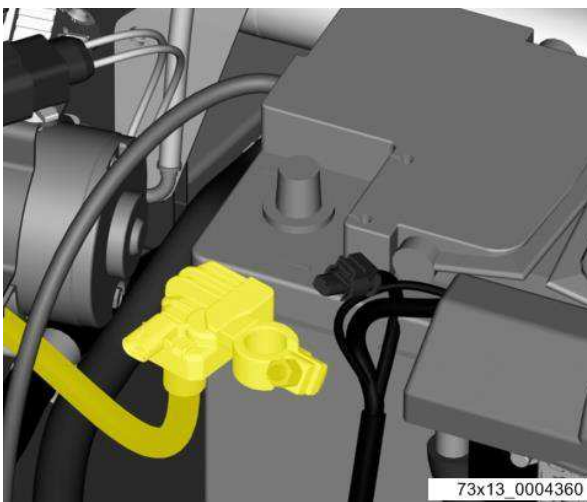




20. Svitare il dado morsetto negativo.



21. Svincolare il morsetto negativo.



**F. Smontaggio copertura motore posteriore.**



**ATTENZIONE**

**Attendere il completo raffreddamento della vettura!**

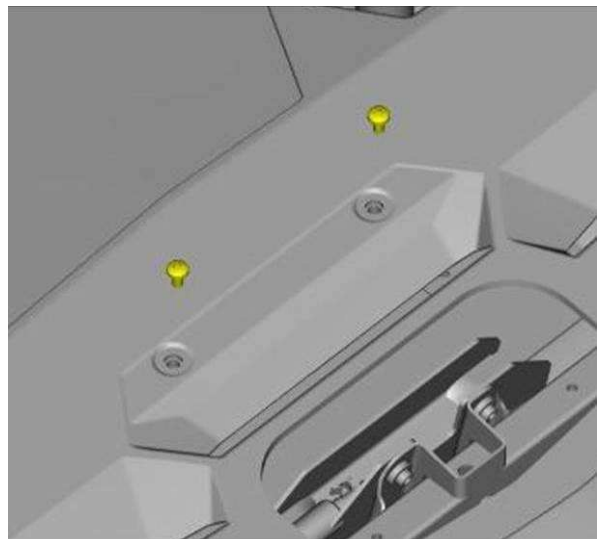
22. Svitare le 2 viti.



**Note per il rimontaggio**

Fissaggio viti.

Coppia di serraggio: **6,00 Nm ( 4,43 lbf ft )**.



23. Svitare le 8 viti.



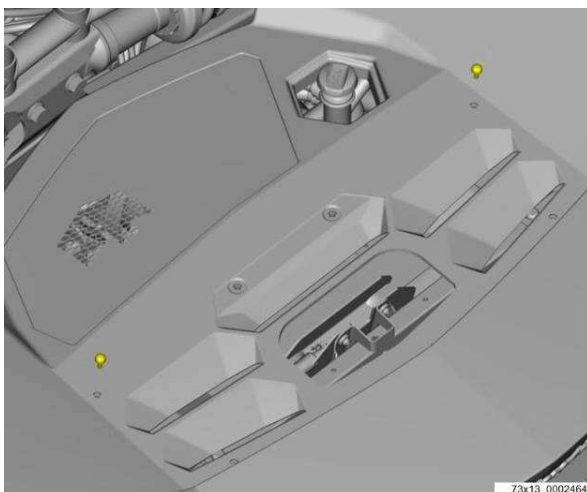


24. Rimuovere i 2 puffer.

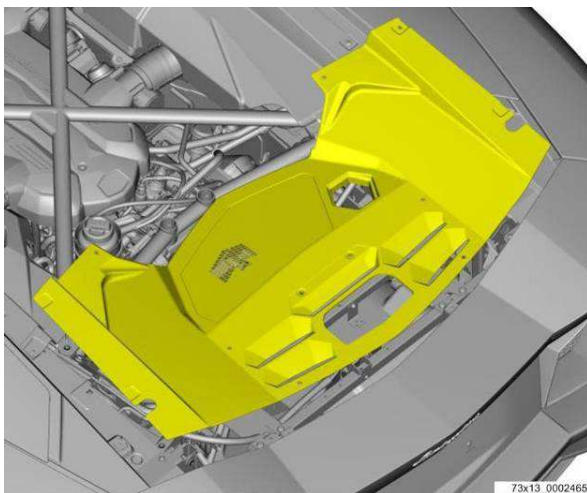


**Note per il rimontaggio**

Applicare frenafili deboli prima del montaggio.



25. Rimuovere la finitura posteriore vano motore.



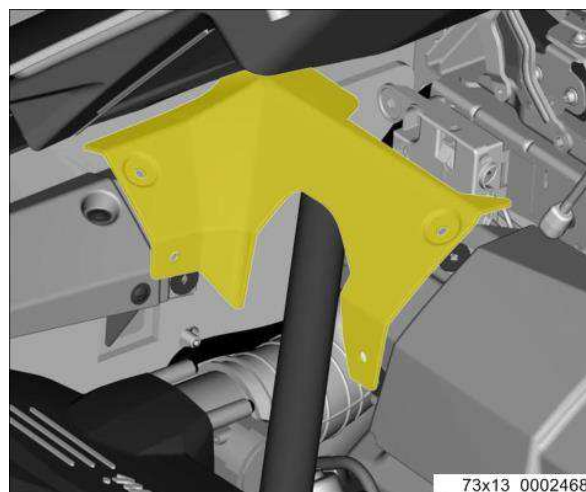
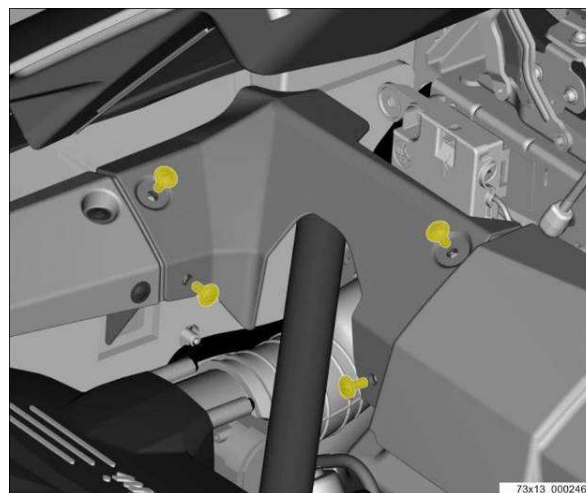
**G. Smontaggio/Montaggio Copertura Motore Laterale destra sezione anteriore**



**ATTENZIONE**

**Attendere il completo raffreddamento della vettura!**

26. Svitare le 4 viti e rimuovere la finitura anteriore destra vano motore.





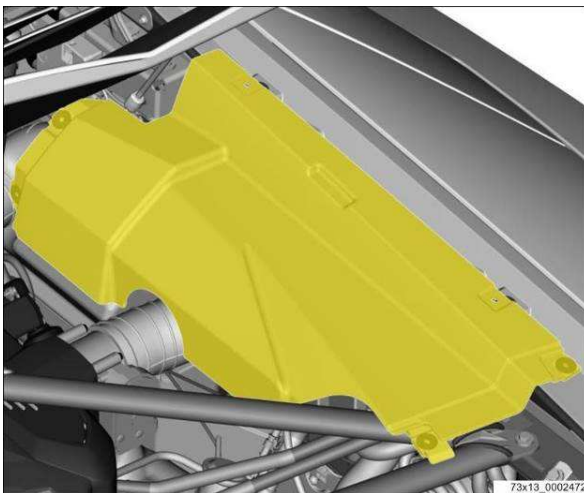
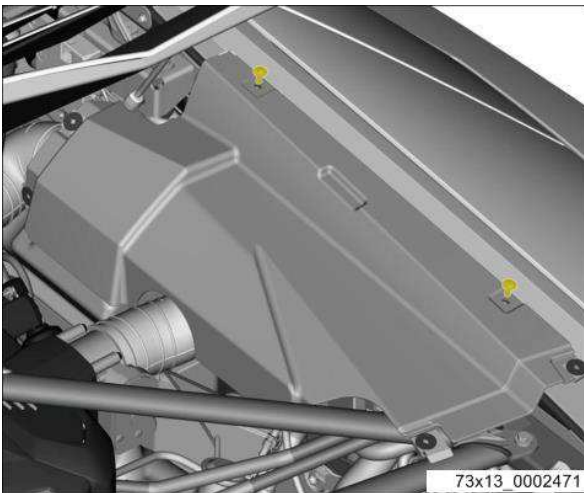
### H. Smontaggio/Montaggio Copertura Motore Laterale Destra



#### ATTENZIONE

Attendere il completo raffreddamento della vettura!

27. Svitare le 2 viti e rimuovere la finitura destra del vano motore.



### I. Sostituzione relè.

28. Svitare le due viti relativi al coperchio della scatola fusibili/relè.



29. Individuare il corretto relè da sostituire seguendo l'immagine seguente (Relè cerchiato in rosso).



30. Sostituire il vecchio relè con il nuovo codice: 470927843.



## J. Rimontaggio

31. Eseguire il rimontaggio seguendo la procedura inversa allo smontaggio.

### Ricordarsi di:

- Settare correttamente ora e data sul sistema LIS (vedere Manuale d'uso e manutenzione).
- Eseguire l'apprendimento della posizione dei finestrini con l'aiuto delle procedure di diagnosi ODIS-Service oppure come descritto nel Manuale d'uso e manutenzione.



### AVVERTENZA

Seguire la procedura seguente per ricaricare il supercap.

### Installazione del SuperCapacitore

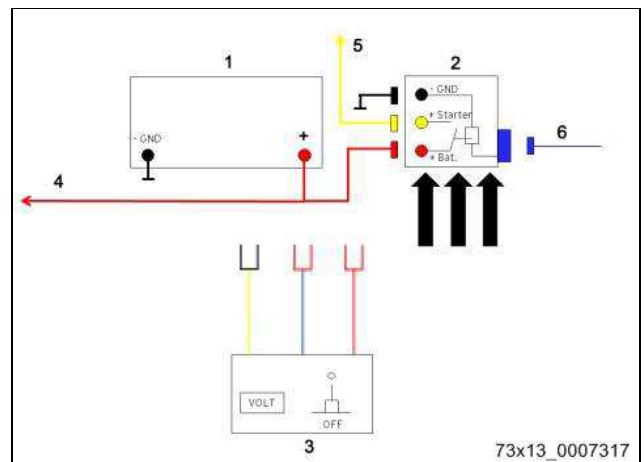
32. Montare il SuperCapacitore.



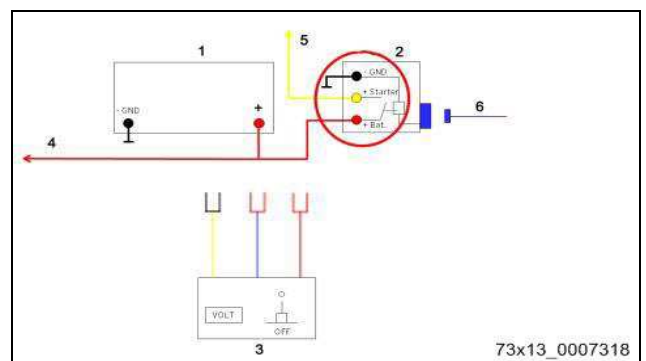
### ATTENZIONE

Il SuperCapacitore deve essere sempre maneggiato scarico.

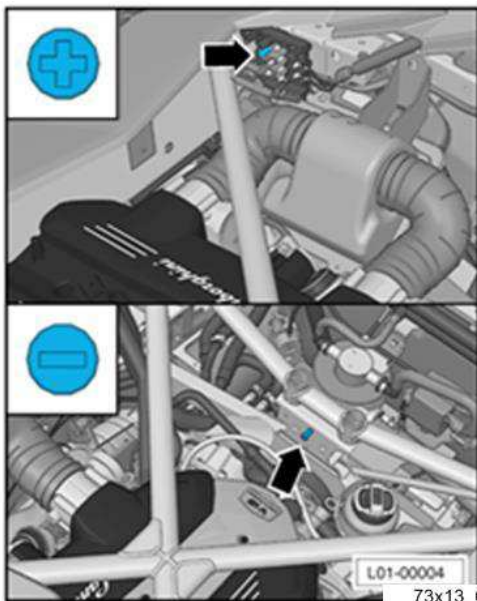
Non caricarlo mai con altri dispositivi (ad es. carica batterie) al di fuori dell'attrezzo specifico fornito da Automobili Lamborghini.



33. Collegare i poli SuperCapacitore.



34. Collegare un caricabatteria agli appositi punti di ricarica disponibili nel vano motore, come mostrato in figura.



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Collegamento attrezzo per scarica/carica SuperCapacitore.



**ATTENZIONE**

Lasciare disconnesso il connettore del SuperCapacitore.

- 35. Posizionare l'interruttore dell'attrezzo di carica/scarica del SuperCapacitore su «OFF».
- 36. Collegare il cavo giallo con la pinza nera al punto di massa.



**ATTENZIONE**

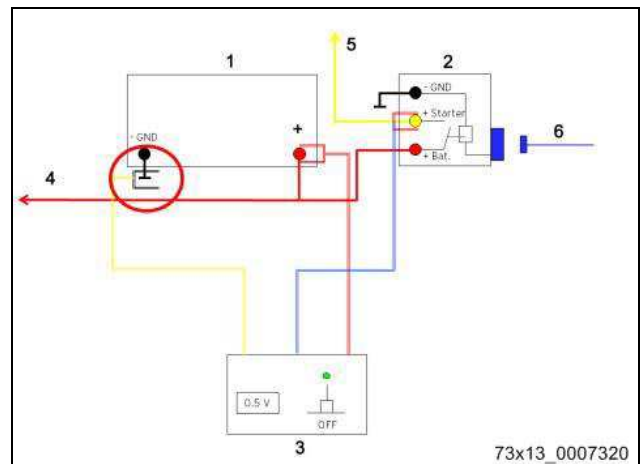
**NON** collegare il cavo direttamente sul polo negativo (-GND) della batteria.

- 37. Collegare il cavo rosso con la pinza rossa al polo positivo (+ Bat.) della batteria e quello blu con la pinza rossa al polo positivo (+Starter) del SuperCapacitore.



**AVVERTENZA**

La spia verde sull'attrezzo si accende quando la tensione del SuperCapacitore è inferiore ad 0,5 V.



73x13\_0007320

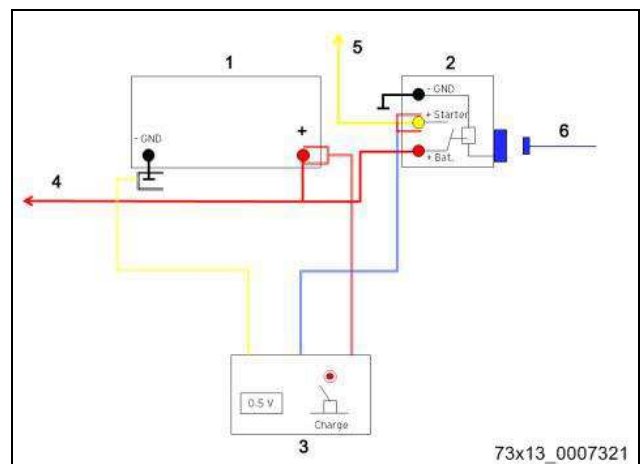
**Procedura di carica SuperCapacitore.**

- 38. Posizionare l'interruttore dell'attrezzo su «CHARGE».



**AVVERTENZA**

La spia rossa comincerà a lampeggiare.

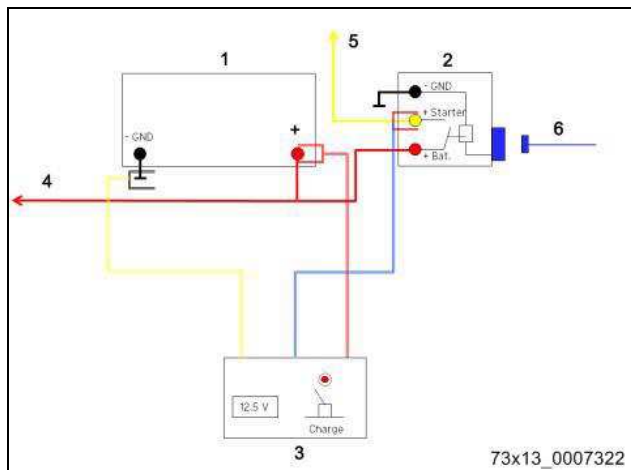


73x13\_0007321

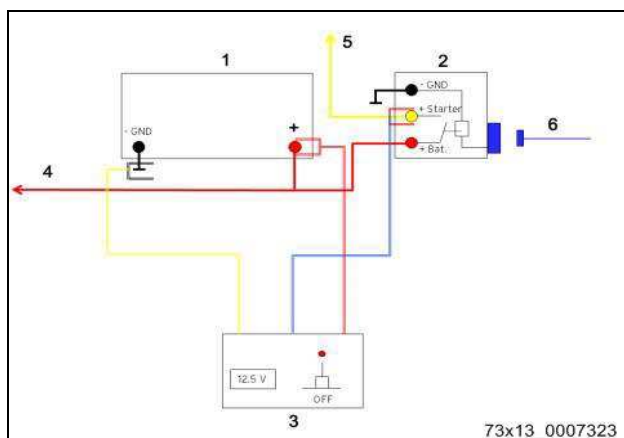
- 39. La fase di «carica» proseguirà finché la tensione del SuperCapacitore indicata sul display sarà



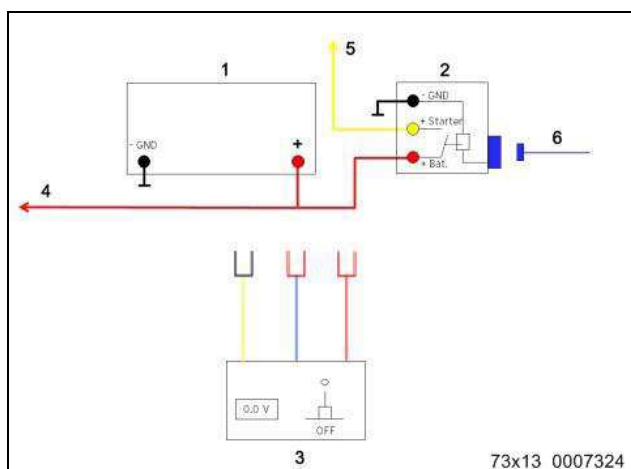
maggiore di 12,5 V e si accenderà la spia rossa fissa.



40. Posizionare l'interruttore su «OFF».



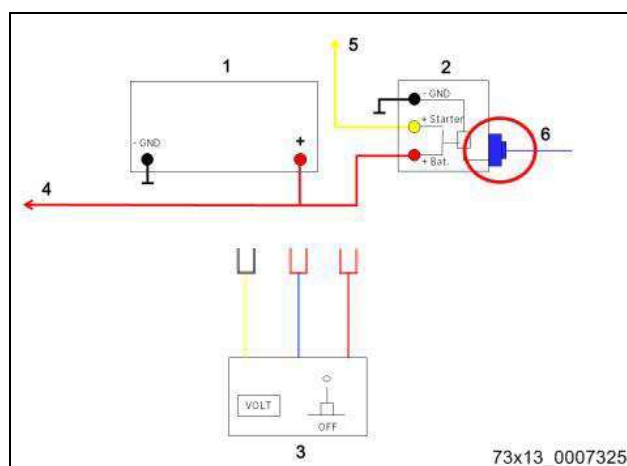
41. Scollegare le pinze dell'attrezzo.



### Ripristino collegamenti SuperCapacitore

42. Riconnettere il connettore del SuperCapacitore.

Dopo aver ripristinato i collegamenti e caricato il SuperCapacitore, procedere con la cancellazione degli errori registrati a causa del smontaggio del SuperCapacitore appena effettuato, collegandosi tramite il Tool diagnostico ODIS-Service.



### ATTENZIONE

Per completare il procedimento, ricordarsi di reimpostare l'orario in vettura e eseguire adattamento finestrini.