

RAPID UPDATE

FROM: Maserati TSO

TO: Maserati Network



MASTERS OF CARE

Rapid Update 597 Grecale – 48V system – Four points Nut tightening torque check



DATE: FEBRUARY 21 2023

Certain Maserati Grecale (M182) MY23 listed in MODISCS+ are involved in a Rapid Update related to the potential of five cable nuts losing torque.

It was found that a wrong tightening torque has been applied in production with potential electrical issues on the vehicle and Hybrid system malfunction or in some case the complete discharge of the 12V battery. The remedy will require the inspection of four nuts located in the trunk and engine compartments, restoring the correct tightening torque.

We remind you that all Rapid Updates must be performed the first time the vehicle enters the workshop, regardless of the Mandatory setting set in Modis, as required by Maserati policies.

Likewise, for cars in Stock Dealer/PDI, it is necessary to carry out all campaign operations before delivery to the final Customer, as prescribed by the White Book and explicitly reported in the Pre-delivery check list.

Please read and review this bulletin first before starting the procedure.

Contact your Regional AfterSales Manager (RAM) or the Technical Support Helpdesk if you have any questions. (MaseratiTechsupport@maserati.com)

Thank You for your continued support and cooperation.

Maserati Americas
Aftersales Dept

Overview

To complete this rework, it is necessary to check the 5 points below:



Follow the procedure to rework the points indicated in the picture using the VIN list.

- A. Positive and Negative BSG Cable on the engine block. -> Increased nut Torque to 18 Nm
- B. Positive 48V Cable to BDU in the trunk compartment -> Increased nut Torque to 28,5 Nm
- C. Positive 48V High Node in the Engine Compartment. -> Check Only (11 Nm)
- D. 48V battery to chassis Ground point in the trunk compartment. -> Check Only (8Nm)

Operational Procedure – Preliminary Operation

Preparations:

- Always check in ModisCS+ to see if the vehicle is involved in this action and if it has not been previously performed.

Use the Attached VIN list to verify the correct actions to be performed for each VIN

Model	Complete VIN	VIN	Status	(A) +/- BSG Cables	(B) +48V BDU Cable	(C) +48V High Node	(D) +48V Ground Point
GRECALE MHEV	ZN682AVA1P7397318	397318	96	Y	Y	N	N
GRECALE MHEV	ZN682AVA6P7397315	397315	96	Y	Y	N	N
GRECALE MHEV	ZN682AVAXP7397317	397317	96	Y	Y	N	N
GRECALE MHEV MODENA	ZN682AVM1P7408957	408957	94	Y	Y	N	N

Perform actions marked only with a "Y" per VIN.

1. Disconnect the 12V battery following the procedure reported in the workshop manual:
 - **08.20.001 - BATTERY - Electric supply connection-disconnection**
2. Make sure the 48V system has powered down by using a DVOM to check for voltage at the 48V FDU identified by the blue cover next to the washer fluid. If voltage is less than 5V then rework can be performed.



A. Positive and Negative BSG Cable tightening

It is highly recommended to proceed with the verification of the torque / tightening without unscrewing the nuts, to avoid damage to the threads.

1. Check if the vehicle is marked as "Y" for this specific rework in the VIN List attached.
2. Lift the car and steer the wheels to the left (see photo) to free up the space needed to perform the operation.



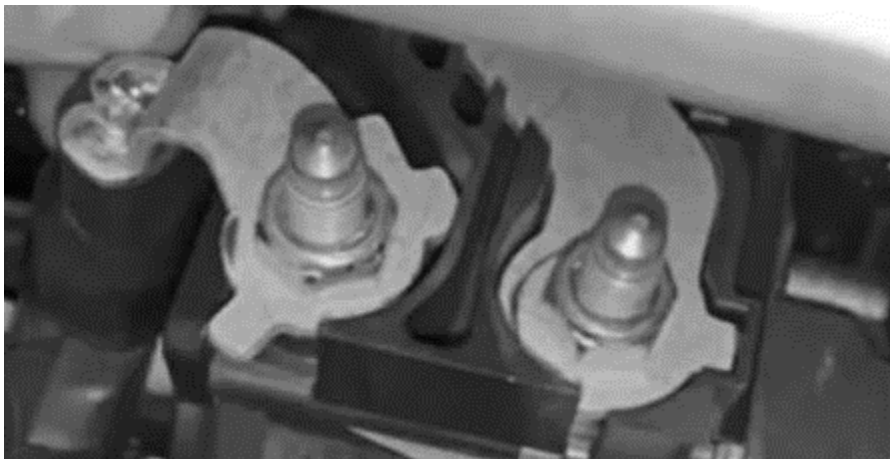
3. Unscrew the indicated screw (A) and lower the pipes (1) to have accessibility to the screws.
4. Unscrew the screw (2) and remove the cover (3) to free the two bolts to rework.



5. Use torque wrench with an extension and socket to tighten the nut to **18 Nm**. **Set the torque wrench to 18 Nm.**



6. Repeat the operation also for the next nut (Positive and Negative node), keeping the torque of **18 Nm**.

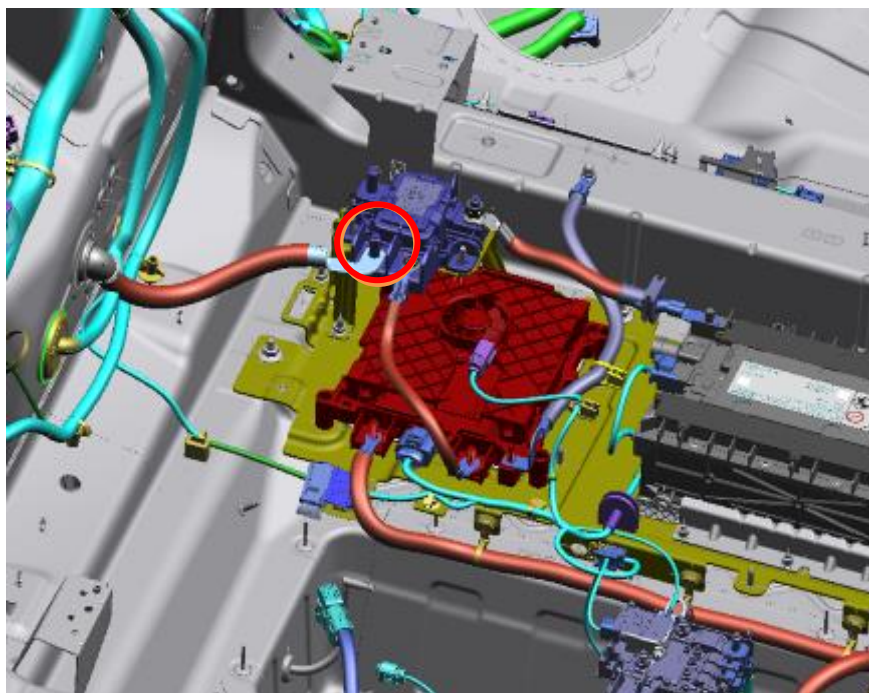


7. Reassemble all removed parts following the removal procedure in reverse order.
8. The procedure is complete.

B. Positive 48V Cable to BDU in the trunk compartment

It is highly recommended to proceed with the verification of the torque / tightening without unscrewing the nuts, to avoid damage to the threads.

1. Check if the vehicle is marked as "Y" for this specific point in the VIN List attached.
2. Remove the luggage compartment container following the relative procedure:
 - **09.61.066 - LUGGAGE COMPARTMENT CONTAINER - Removal/refitting or replacement**
3. Using a torque wrench, tighten the nut with a torque of **28,5 Nm**. (Set the torque wrench to **28,5 Nm**)

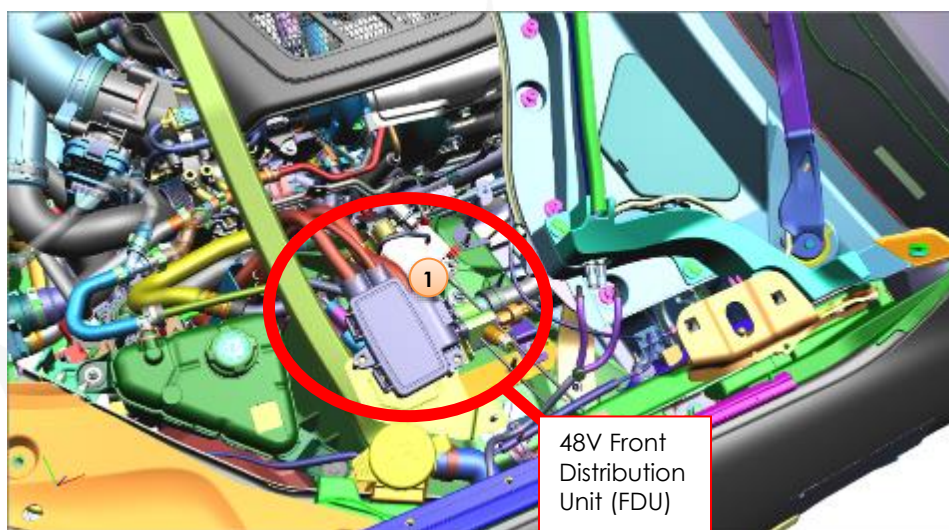


4. Reassemble all removed parts following the removal procedure in reverse order.
5. The procedure is complete.

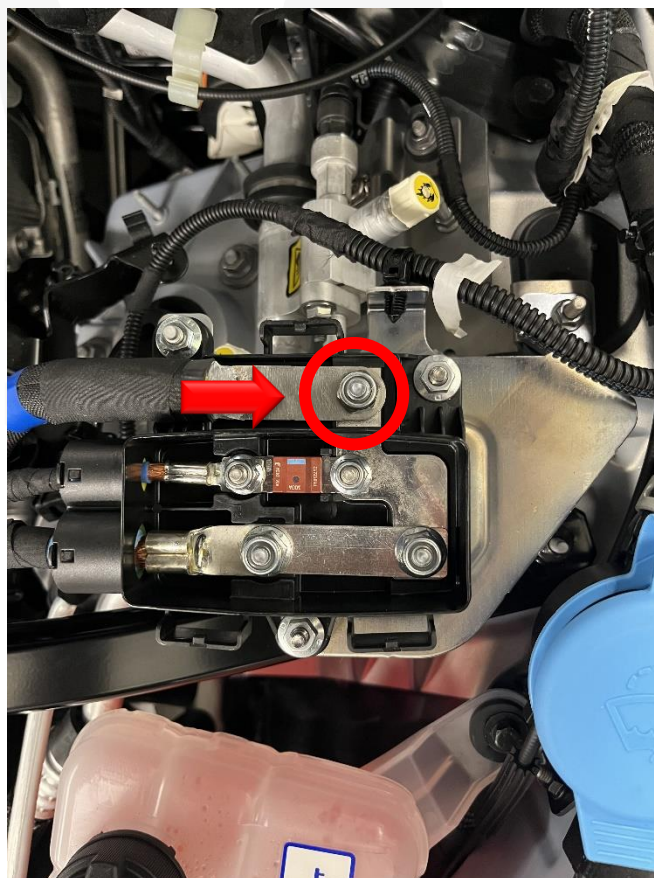
C. Positive 48V High Node in the Engine Compartment.

It is highly recommended to proceed with the verification of the torque / tightening without unscrewing the nuts, to avoid damage to the threads.

1. Check if the vehicle is marked as "Y" for this specific point in the VIN List attached.
2. Open the front hood lid and remove the 48V Front Distribution Unit (FDU) blue cover (1)



3. Using a torque wrench, tighten the indicated nut with a torque of **11 Nm. (Set torque wrench to 11 Nm)**

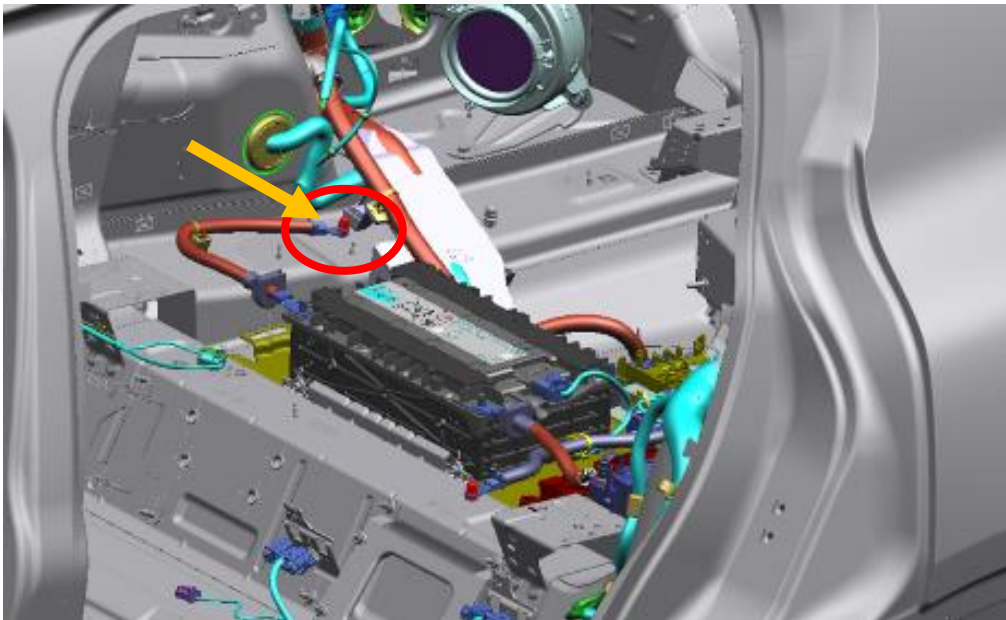


4. Reassemble all removed parts following the removal procedure in reverse order.
5. The procedure is complete.

D.48V battery to chassis Ground point in the trunk compartment.

It is highly recommended to proceed with the verification of the torque / tightening without unscrewing the nuts, to avoid damage to the threads.

1. Check if the vehicle is marked as "Y" for this specific point in the VIN List attached.
2. Remove the left side mat luggage compartment following the relative procedure:
 - **09.61.006 - LH SIDE MAT LUGGAGE COMPARTMENT - Removal/refitting or replacement**
3. Using a torque wrench, tighten the indicated nut with a torque of **8 Nm. (Set torque wrench to 8 Nm)**



4. Reassemble all removed parts following the removal procedure in reverse order.
5. The procedure is complete.

Warranty Claim

Fill in the relative Warranty Claims as follows:

Description	Code
Campaign Number	597
Warranty Code	23
Fault Code	063
Component Code	8.60.110
Operation Code ▪ Check point A ▪ Check point B ▪ Check point C ▪ Check point D	8.60.110.A (0.40 h) 8.60.110.B (0.25 h) 8.60.110.C (0.10 h) 8.60.110.D (0.65 h)