

IATSB004354v3

Technical Service Bulletin

Authored Date	17/07/2026	
Doc No.	IATSB004354v3	
Title	Electro-Hydraulic Power Steering (EHPS) Mapping Update	
Affected Vehicle(s)	Grenadier	PF00001 – PF009914 RF004651 – RF023496 SF000001 – SF030942
This Technical Service Bulletin (TSB) should only apply to vehicles that demonstrate the described issue below.		

Reason for this document

Issue: An issue has been identified on a small percentage of vehicle where the customer notices reduced support from the power steering system.

Cause: Oil flow rate through steering system deviates from nominal rate in certain conditions

Action: Update the vehicle as per instructions below.

Workshop Procedure

EHPS – Software Update

Operation:	SRO	Repair Time:
Update	XTSBEHPSSWU	0.5 Hours

Software Numbers

Module:	Old Software Number	New Software Number	Model Year
EHPS	SW-0000000756	SW-0000000992	MY25
	SW-0000000518	SW-0000000993	MY24
	SW-0000000007	SW-0000000994	MY23

Before completing this Technical Service Bulletin, the following items must be check:

- Read the DTCs, check for anything related to the Electro-Hydraulic Power Steering system.
- Check the software level and coding.
- Check for leaks on the Electro-Hydraulic Power Steering system.

Please raise a Technical Support ticket with any observations made from completing the checks, this will enable the global team to push the software to the vehicle.

Make sure all software campaigns have been applied to the vehicle before starting this campaign

Cautions:

The vehicle must be connected to a charger **BEFORE** starting the update on the vehicle.

Failure to adhere to this will likely cause damage to the Head Unit and/or Body Control Module which the cost of the replacement will be done at the Service Center Expense



Note:

- The procedure contains illustrations showing certain components removed to provide extra clarity.
- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.

Procedure – Updating Control Units.

1.

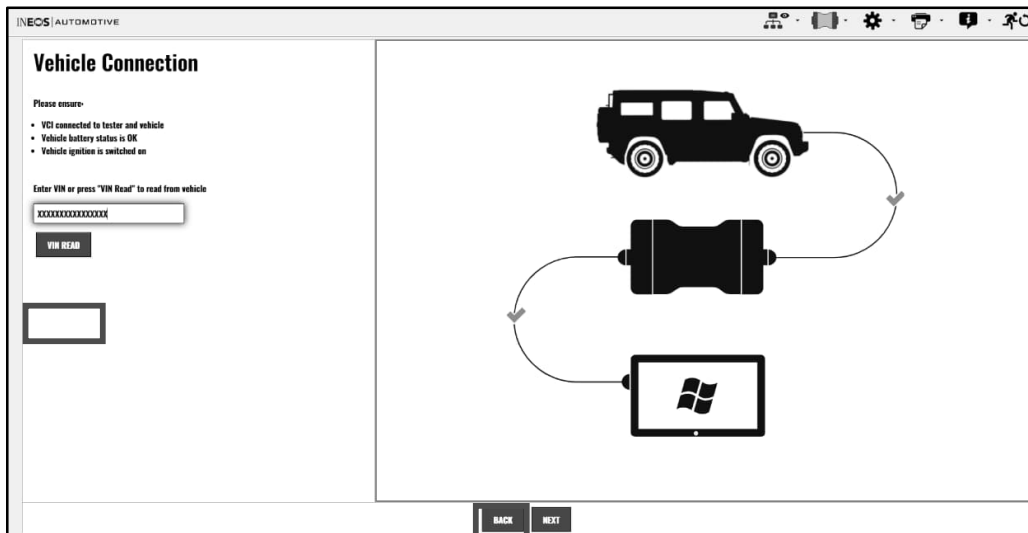
Cautions

- An internet connection is required through the process. Coding will fail if the internet connection is not available.
- Before starting the vehicle software update make sure the following conditions are met –
 - Dynamic battery charger **ON**, fitted to the engine compartment B+ and earth.
 - Lights set to **OFF**.
 - Cabin fan **OFF**.
 - Vehicle audio **OFF**.
 - All external devices disconnected (i.e. USB sticks, B+ auxiliary connection etc.).
 - All doors, except the drivers, are closed.
 - Vehicle on a flat even ground.
 - The vehicle must **NOT** be disturbed during the process.

Note:

- See VCI connection documentation (VCI AND CONNECTION GUIDE UPDATE V 2.0) for VCI self-help.
- Ensure the connection is **NOT** in simulation.





Connect the vehicle to Grade-X using the VCI connected to the OBD port in the driver's footwell.

- 1) Select '**VIN READ**'.
- 2) Select '**NEXT**'.

2.

Note:

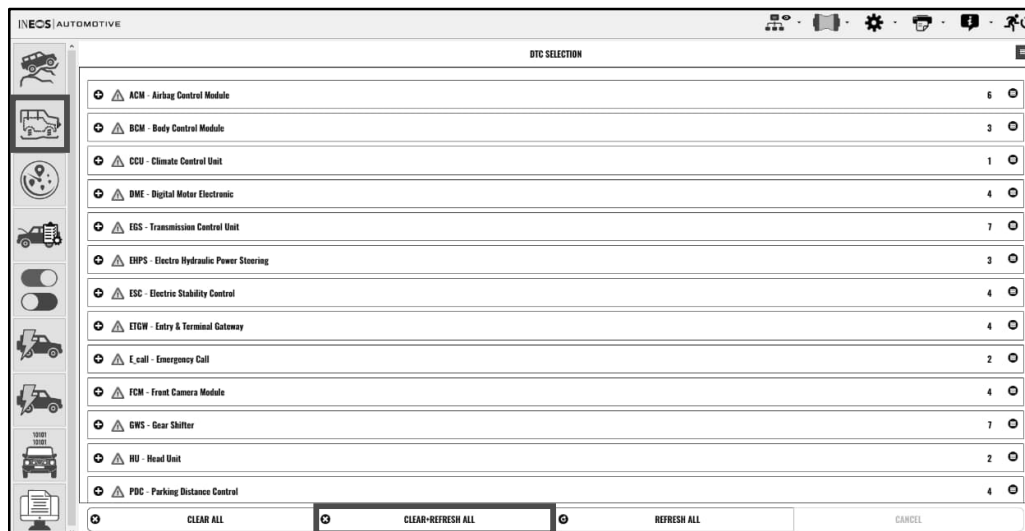
- If an installed ECU is not listed as communicating, carry out a battery reset for 10 minutes.
- Ignore FCM, and other ECUs not installed as these will display as red crosses.



Within the 'Vehicle Summary' check all installed ECUs have an open communication displaying a green tick.



3.



- Select '**Fault Memory**' Tab.
- Select '**CLEAR + Refresh All**' once all DTCs have been read.

4.

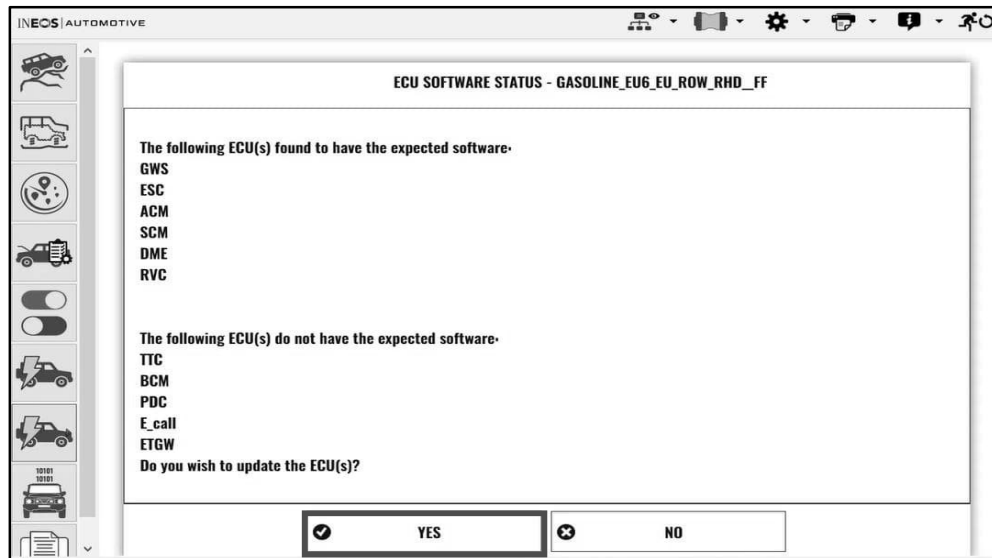


- Select '**Automated Flash Tool**' tab.
- Select '**Automated Flash Tool**' action.

5.

Note:

- Image below is an example only, only EHPS module should be showed at this stage.

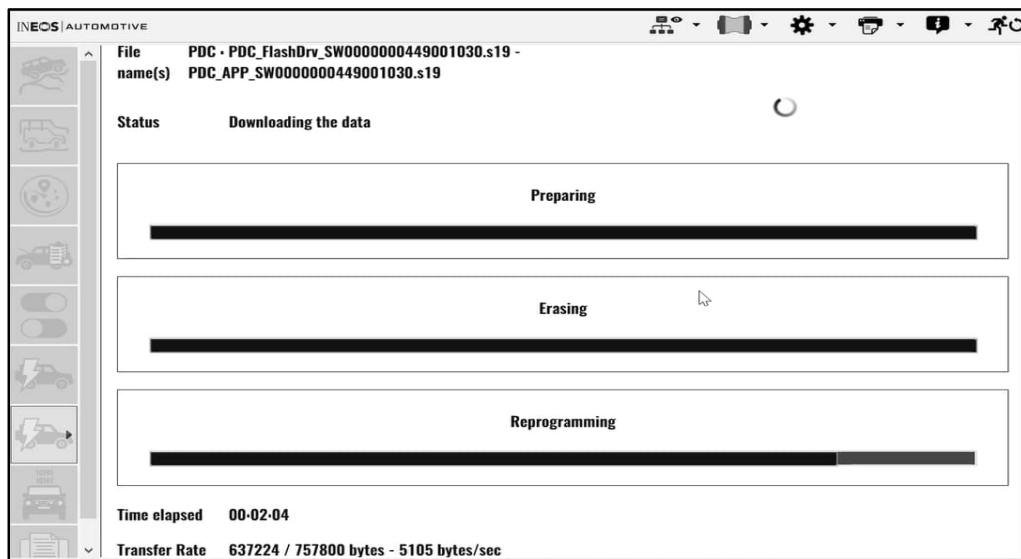


- Grade-X Automated Flash will assess the ECU software part numbers of the ECUs, displaying the ECUs requiring a software update.
- Select '**YES**' to update the ECUs software to the latest level.

6.

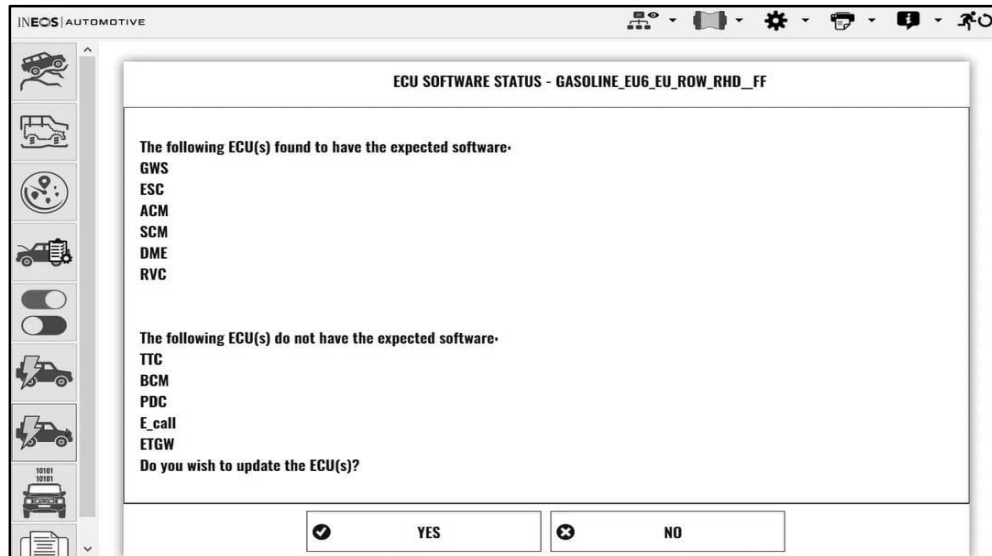
Note:

- There should be a list of ECUs requiring update. If the ECUs are not displayed, the software of the ECU is up to date.
- Image above is an example only, each vehicle might show different ECUs requiring to be updated.



Allow Grade-X to update all ECUs until the update is completed.

7.



If the flash fails due to the following reason, carry out the check, and attempt the update again:

- Checksum error
- Pre-conditions failed – check preconditions in step 1.

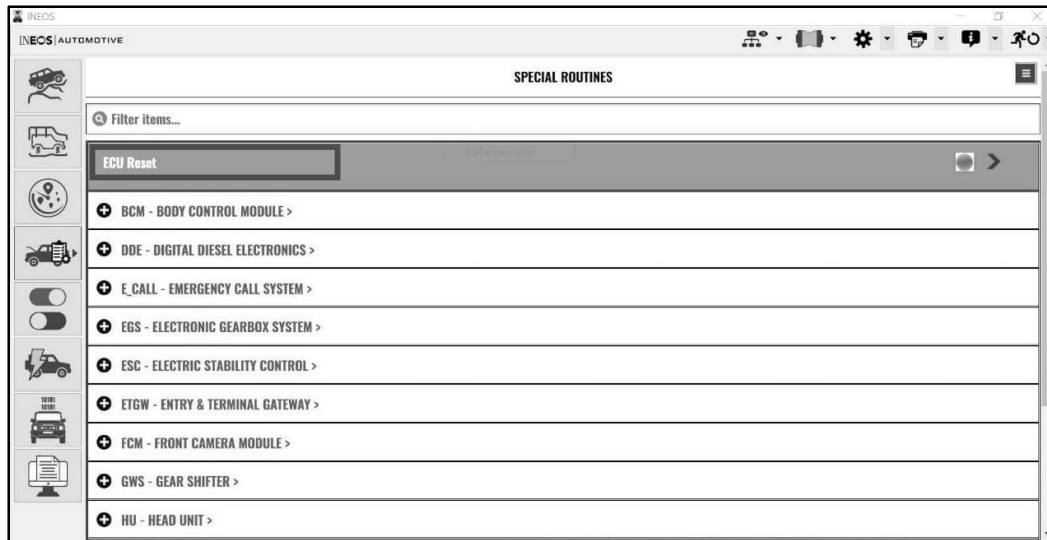
If the flash fails more than twice, raise a technical support ticket in the INEOS portal providing the following information:

- VIN number
- ECU the failure was against
- ECU responding / not responding
- The notification from Grade-X on the error
- Any DTCs stored after the flash

8.

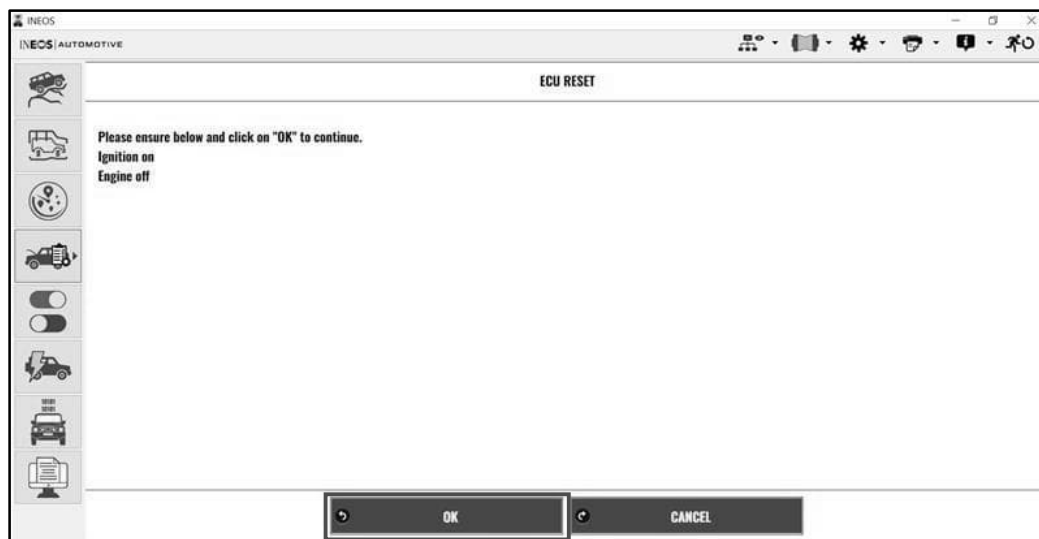
Note:

The ECUs will reboot. This will take a few minutes. Allow the ECUs to complete the reboot process.



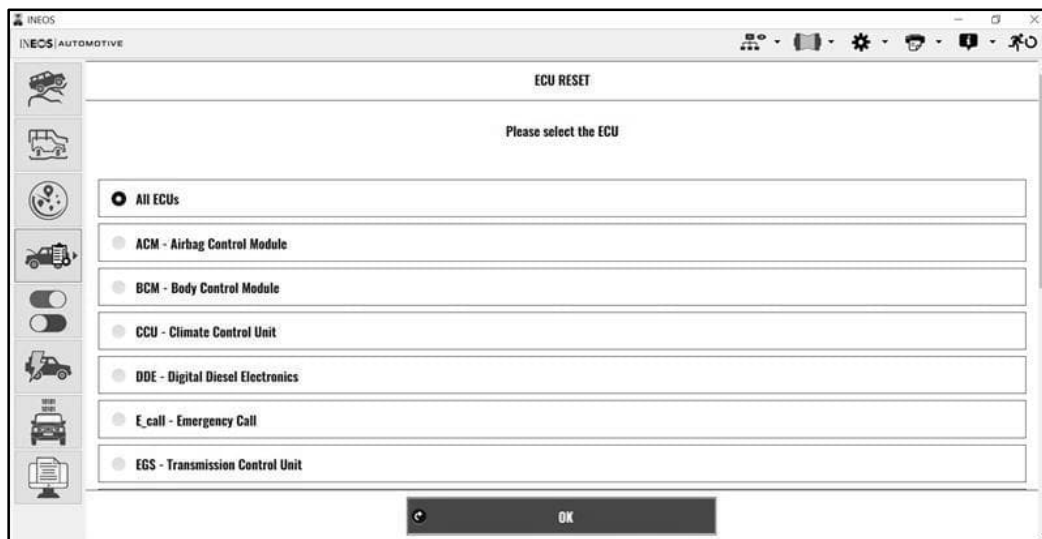
- Go to '**Special Routines**'
- Select '**ECU Reset**'

9.



Select '**OK**'

10.



Select '**All ECUs**'

11.



- Select '**Hard Reset**'
- Select '**OK**'

12.



- A message will appear to say if the '**Hard Reset**' has been successful.
- Disconnect the Grade X session.

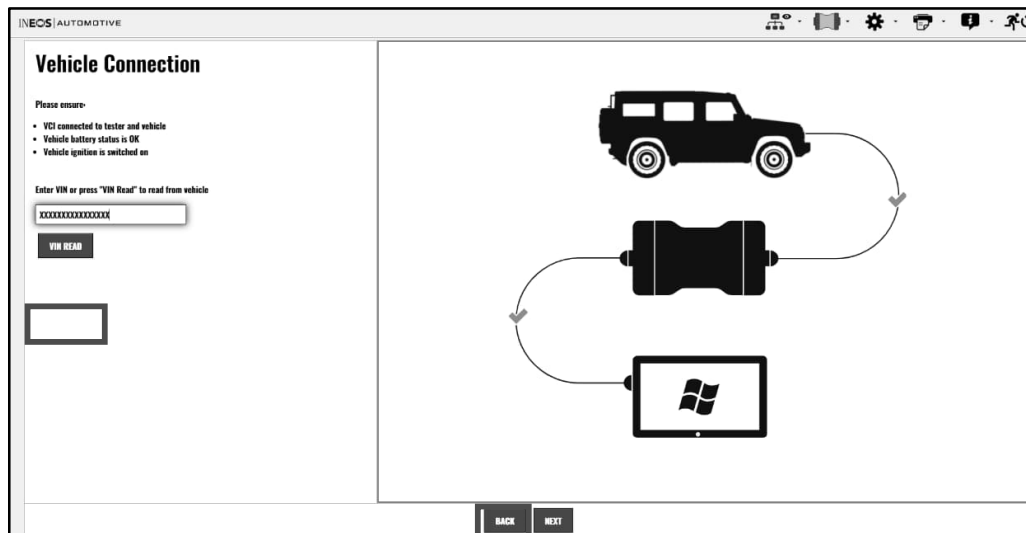
13.

- Check passenger airbag activation via the HU screen.
- Follow the Passenger Airbag activation process via the central display.

14.

Note:

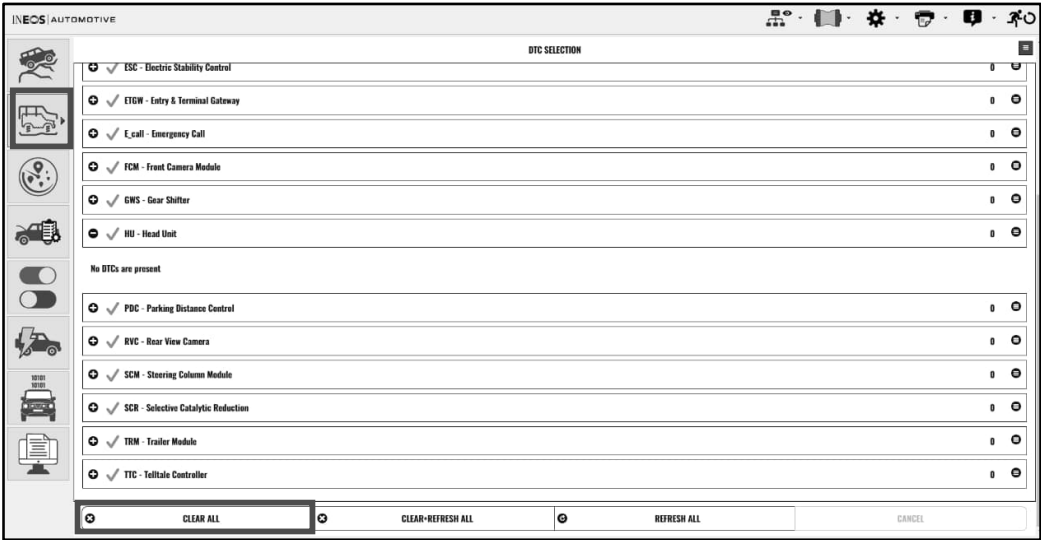
- See VCI connection documentation (VCI AND CONNECTION GUIDE UPDATE V 2.0) for VCI self-help.
- Ensure the connection is **NOT** in simulation.



Connect the vehicle to Grade-X using the VCI connected to the OBD port in the driver's footwell.

- 1) Select '**VIN READ**'.
- 2) Select '**NEXT**'.

15.



- Select '**DTC Memory**' tab.
- Grade -X will start to read the ECU DTCs.
- Select '**CLEAR ALL**'.
- Grade - X will clear and read the vehicles DTCs.

16.

Complete a full and comprehensive check on the head unit functionality to ensure there is no operational concerns.

17.

Complete a short (10 minutes maximum) road test.

18.

Release the vehicle.

Change History

Reference No.	Date	Description
IATSB004354	28/11/2025	First Release
IATSB004354v2	18/12/2025	Second Release
IATSB004354v3	17/07/2026	Third Release

