

IATSB004354v2

Technical Service Bulletin

Authored Date	18/12/2025	
Doc No.	IATSB004354v2	
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

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

Please raise a Technical Support ticket to enable global team to push the software to the vehicle

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.

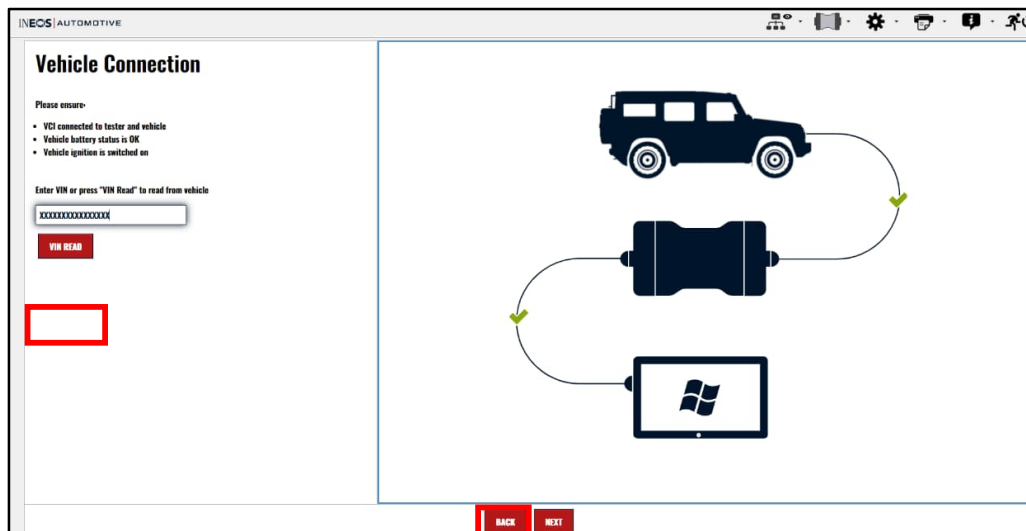
1.

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.



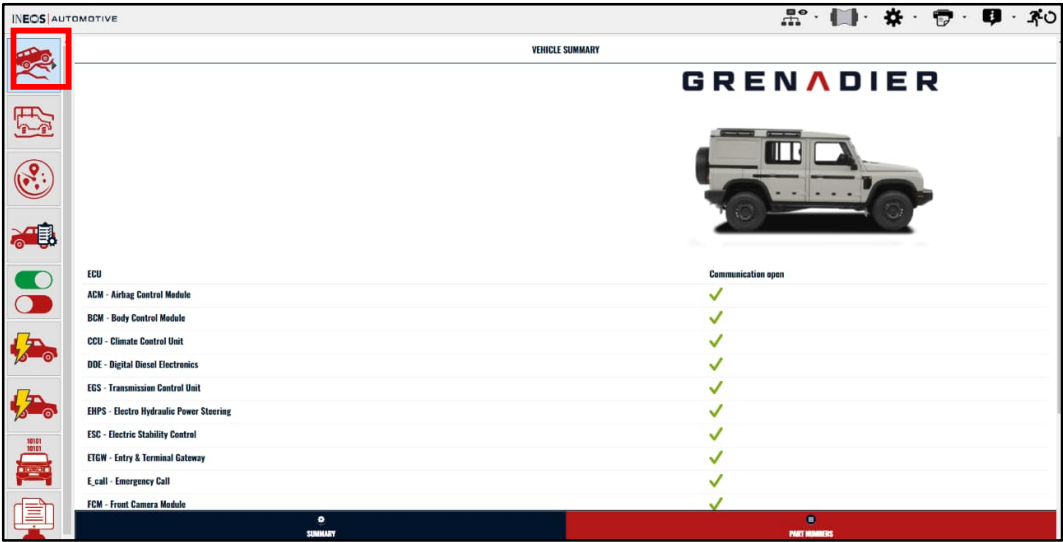
Connect the vehicle to Grade-X using the VCI connected to the OBD port in the driver's footwell.

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

2.

Note:

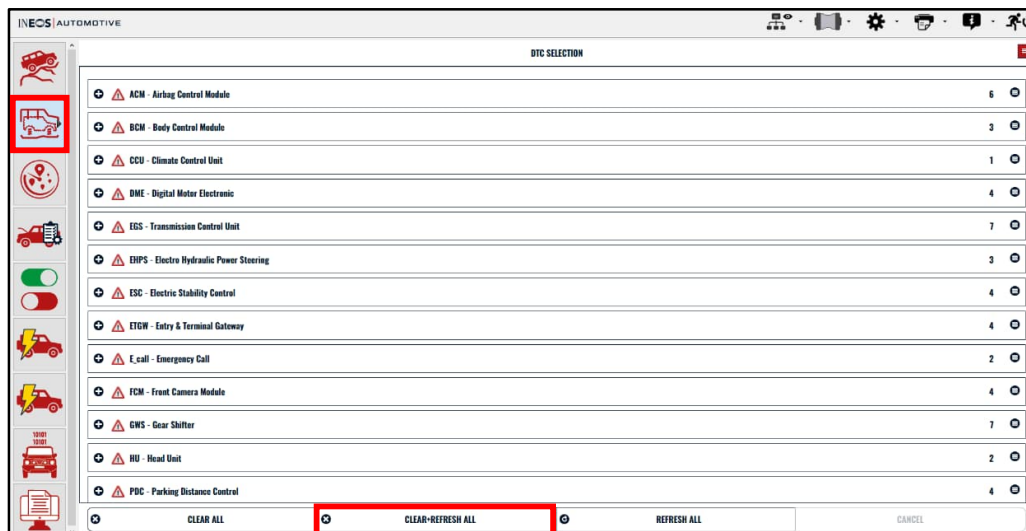
- If an installed ECU is not listed as communicating, carry out a battery reset for 10 minutes.
- Ignore FCM, and other ECUs not installed as these will display as red crosses.



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

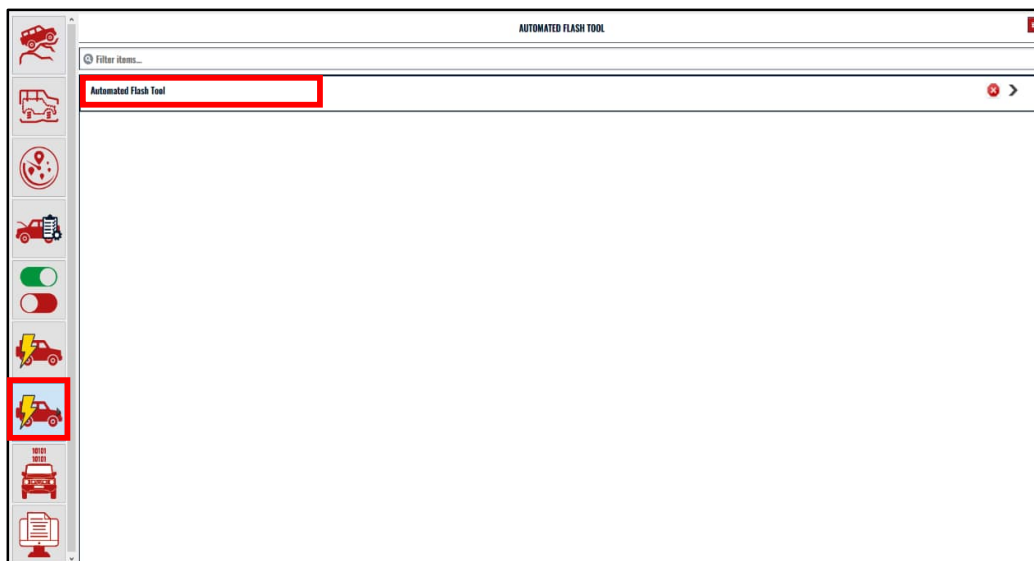


3.



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

4.

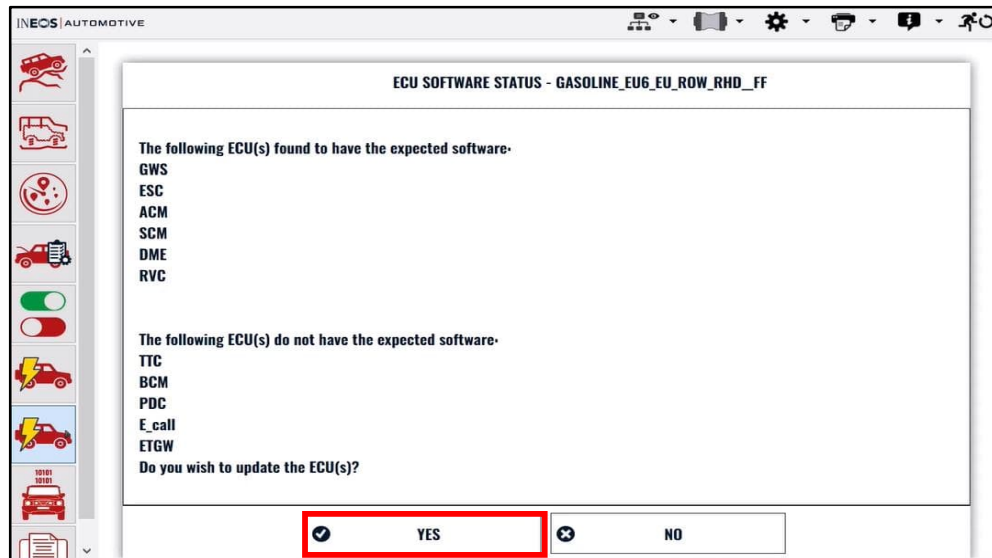


- Select '**Automated Flash Tool**' tab.
- Select '**Automated Flash Tool**' action.

5.

Note:

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

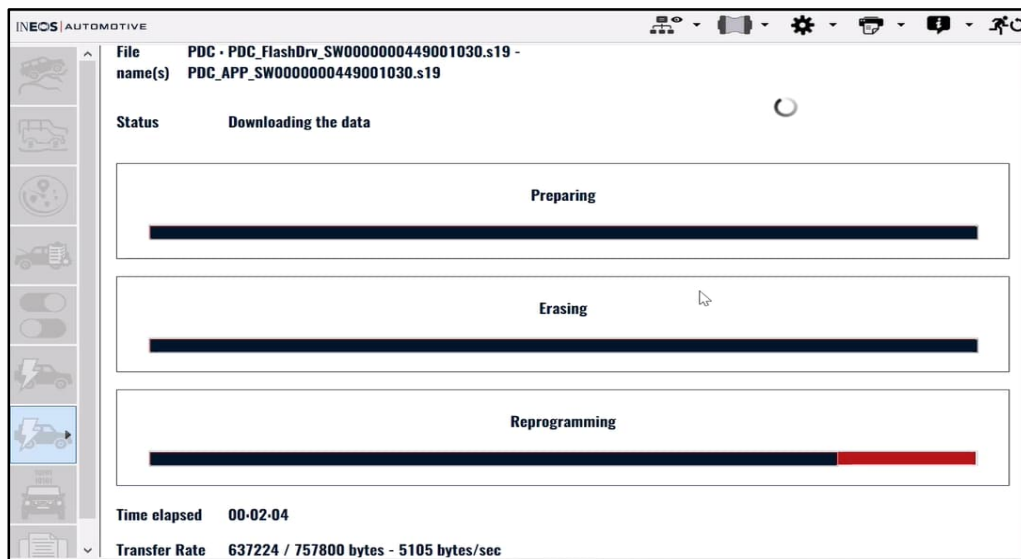


- Grade-X Automated Flash will assess the ECU software part numbers of the ECUs, displaying the ECUs requiring a software update.
- Select '**YES**' to update the ECUs software to the latest level.

6.

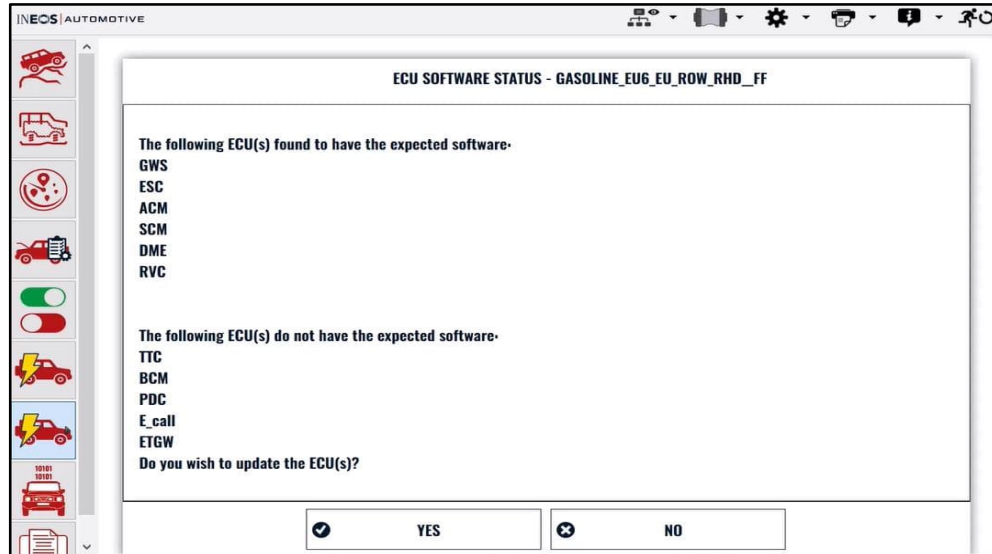
Note:

- 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.

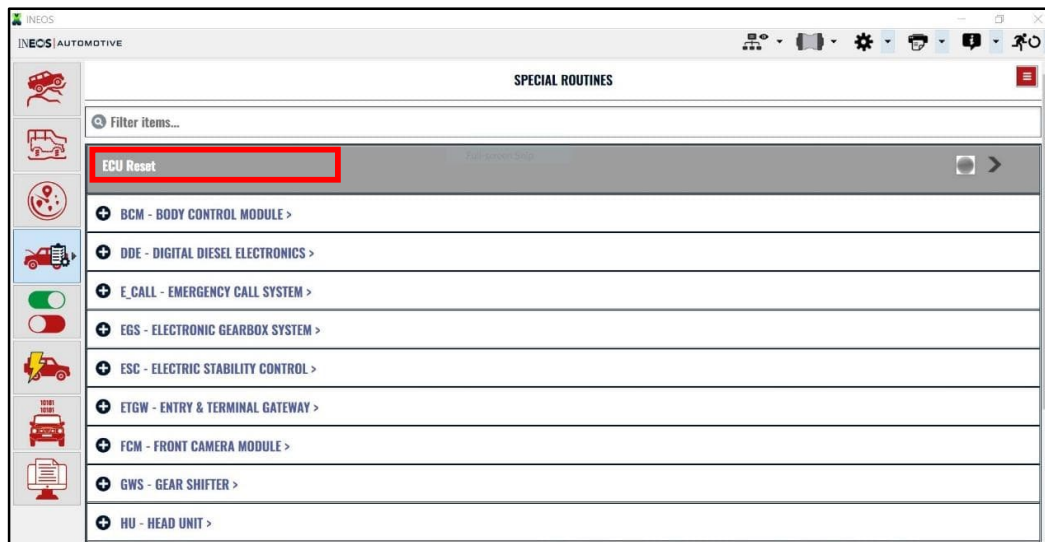
If the flash fails more than twice, raise a technical support ticket in the INEOS portal providing the following information:

- 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.

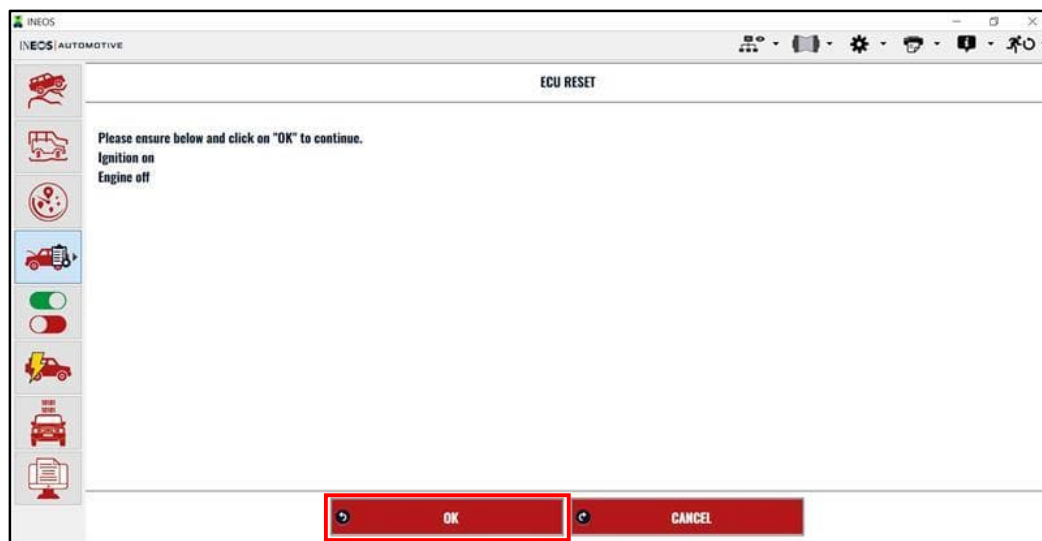
Note:

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



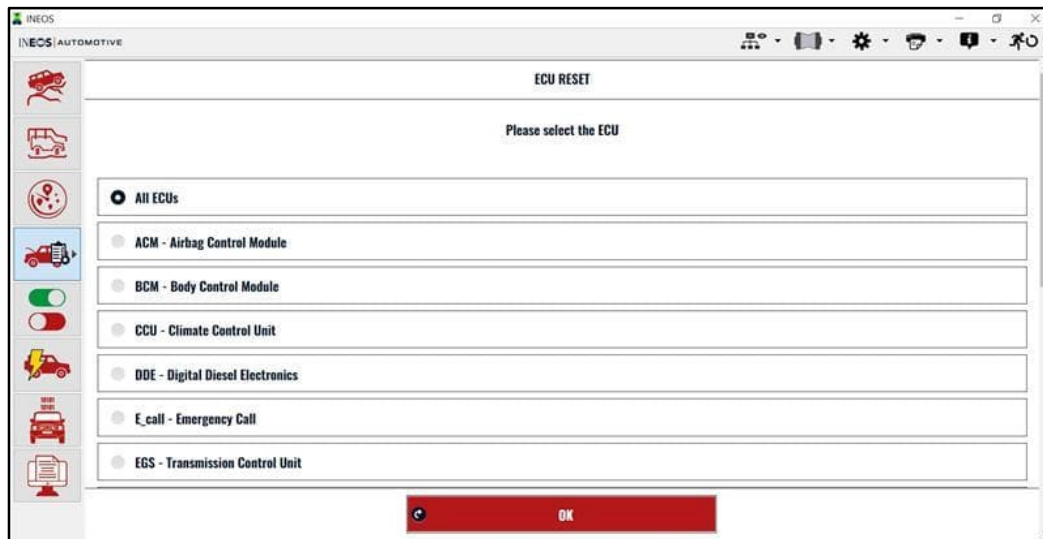
- Go to 'Special Routines'
- Select 'ECU Reset'

9.



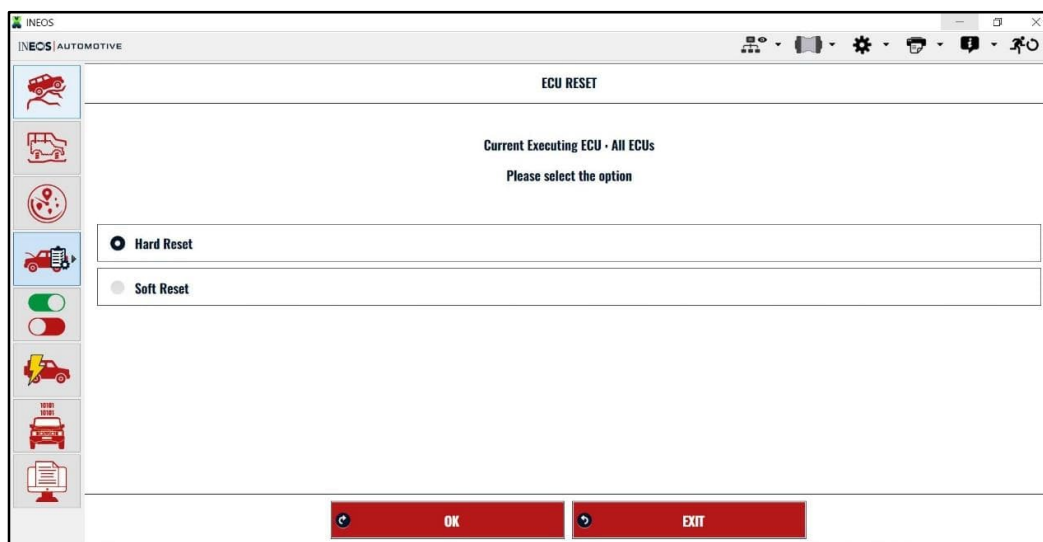
Select 'OK'

10.



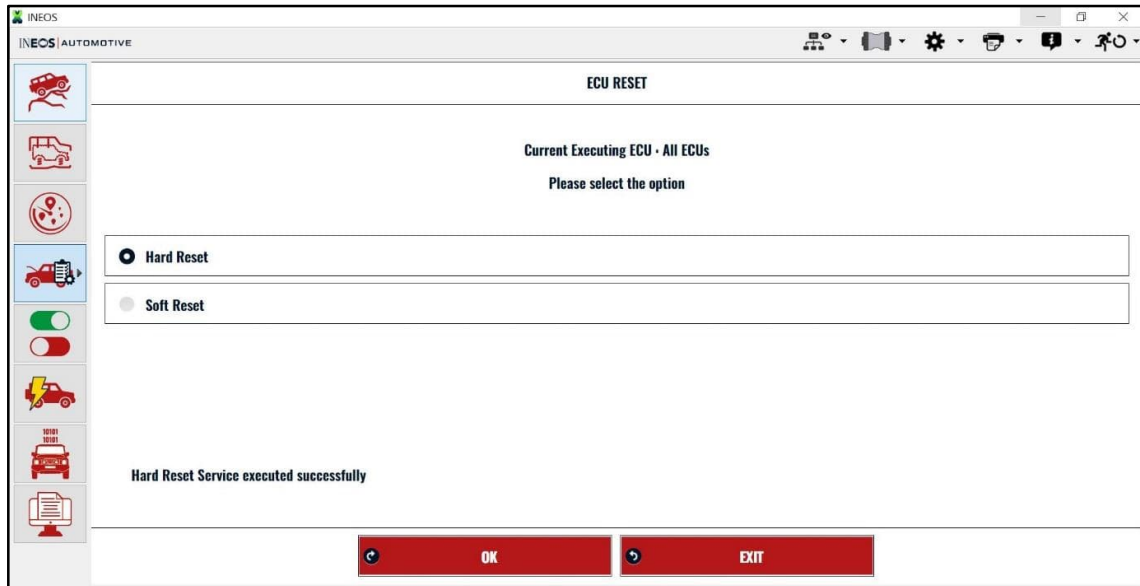
Select 'All ECUs'

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.

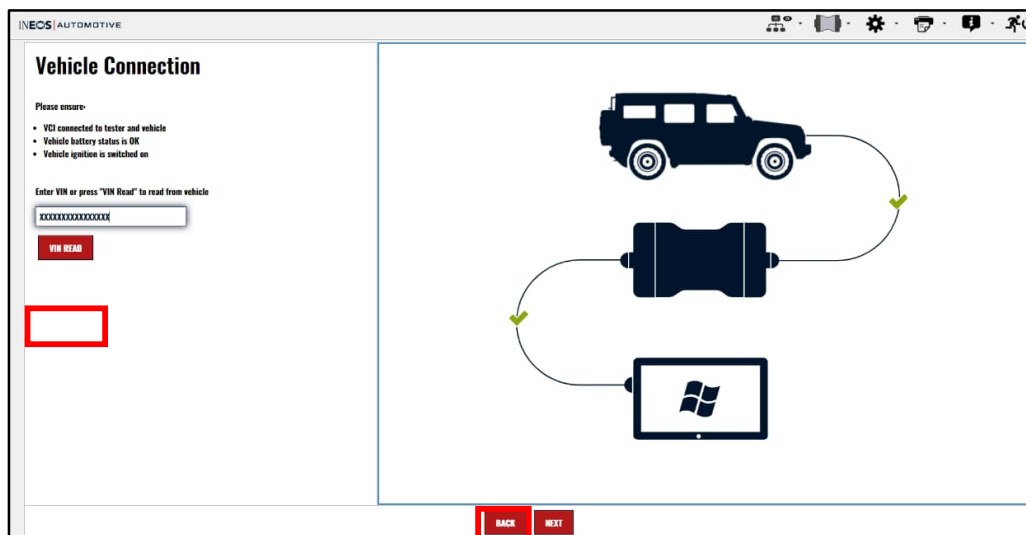
13.

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

14.

Note:

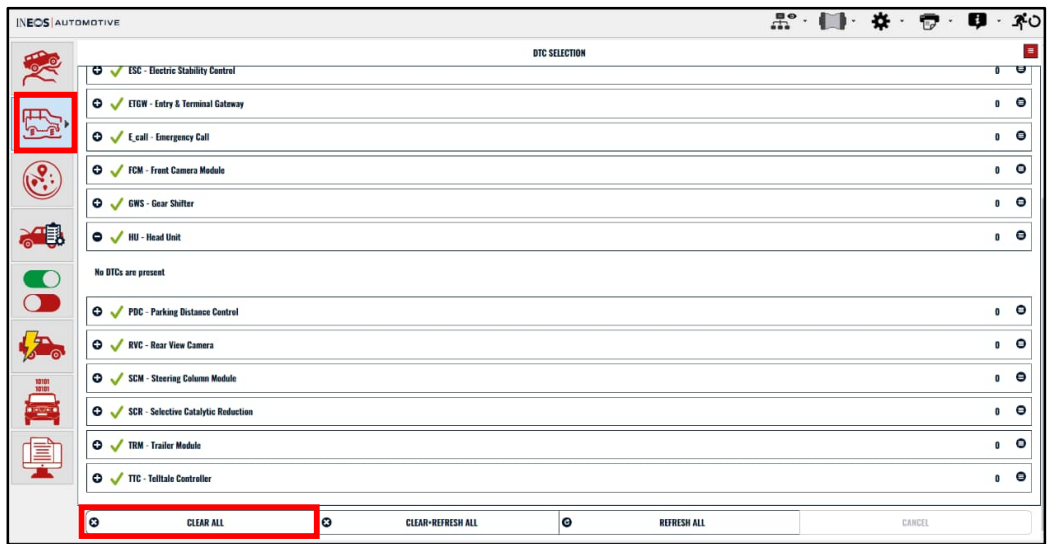
- See VCI connection documentation (VCI AND CONNECTION GUIDE UPDATE V 2.0) for VCI self-help.
- Ensure the connection is **NOT** in simulation.



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

