### **Mandatory Work Order**

Authored Date	05/06/2025		
Doc No.	IAMWO004251		
Title	Intelligent Speed Assistance Software update for North America and Mexico		
Affected Vehicle(s)	Grenadier	RF004677 – RF017814	
Prior to starting any reworks, please make sure you check the vehicle is affected by checking the VIN using Vehicle Simple Search in the Warranty System.			

#### **Reason for this document**

**Issue:** An issue has been identified where the Intelligent Speed Assistance (ISA) functionality does not fit with customer expectations.

**Cause:** No differentiation of ISA functionality in various markets.

**Action:** Update the vehicle as per instructions below. To improve our customer experience, we offer an improved ISA functionality.

• Intelligent Speed Assistance (ISA) "Over Speed Warning" can be switched off once and remain off after ignition cycle.

#### **Workshop Procedure**

#### Software Update

Operation:	Repair Time:
Update	0.3 Hours

#### 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.

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### **Procedure – Updating Head Unit.**

1.



Before the head unit is flashed. Write down the service interval information.

- Distance (Miles/Kilometres).
- o Date.
- Engine running time.

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2.



- Place the vehicle on charge.
- Ensuring the battery charger can output up to 40 amps to support the vehicle power supply during the process.

3.

#### Note:

- See VCI connection documentation (VCI AND CONNECTION GUIDE UPDATE V 2.0) for VCI self-help.

- Ensure the connection is **NOT** in simulation.



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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'.**

#### 4.

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<b>1</b>	S S S FSC - Electric Stability Centrel	DTC SE	LECTION		0	
$\sim$	ETGW - Entry & Terminal Gateway				0	0
Ê	O 🗸 E_call - Emergency Call				0	0
<b>(?</b> :)	🗢 🧹 FCM - Front Camera Module				0	0
	🗢 🧹 GWS - Gear Shifter				0	0
<b>æ</b>	🗢 🗸 HU - Head Unit				0	θ
	No DTCs are present					
	O 🗸 PDC - Parking Distance Control				0	0
<b>\$</b>	🗢 🖌 RVC - Rear View Camera				0	0
10101	🗢 🧹 SCM - Steering Column Module				0	θ
	O 🧹 SCR - Selective Catalytic Reduction				0	Θ
Ē	O 🗸 TRM - Trailer Module				0	0
	TTC - Telltale Controller				0	•
	CLEAR ALL	CLEAR+REFRESH ALL	G REFRESH ALL	CANCEL		

- Select 'DTC Memory' tab.



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Grade -X will start to read the ECU DTCs.

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- Select 'CLEAR ALL'.

- Grade – X will clear and read the vehicles DTCs.

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2	CODING	•
	RECODE >	
1	Code All	• >
<b>e</b>	ACM - Airbag Control Module	• >
<b>æ</b>	BCM - Body Cantrol Mediale	• >
	EHPS - Electro Hydraulic Power Steering	• >
	ESC - Electric Stability Control	• >
<b>—</b>	ETGW - Entry & Terminal Gateway	• >
	HU - Head Unit	• >
<b>1</b>	PDC - Parking Distance Control	• >
	TTC - Teiltale Centroller	
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- Select the coding tab
- Select 'Code All'



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Select 'OK'

7.

#### Note:

Summary page shows the confirmation. Coding status is the priority, As Maintained is optional, but not an issue if it shows **'Not Successful'** as it will try after the session, and it's for reference only.



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		CODING SUMMARY	
	ECU	Coding Status	Asmaintained Status
m	ACM - Airbag Control Module	Successful	Successful
5	BCM - Body Control Module	Not Successful	Not Successful
	EHPS - Electro Hydraulic Power Steering	Not Successful	Not Successful
	ESC - Electric Stability Control	Not Successful	Not Successful
	ETGW - Entry & Terminal Gateway	Not Successful	Not Successful
	HU - Head Unit	Not Successful	Not Successful
	PDC - Parking Distance Control	Not Successful	Not Successful
	TTC - Telltale Controller	Not Successful	Not Successful
<b>\$</b>			
10101			
10101			
		C OK	

Select **'OK'** 

8.

#### Cautions:

- Store all Head Unit flash data into a folder called "**update**" directly in the root of the USB stick: (minus Caps sensitive) "**Update**" WILL NOT WORK

- Use a known good USB A stick of the following specification – USB in FAT32 format (generic USB format), Minimum of 1 GB Storage capacity, no more than 128G, Free from other documents or data on USB stick.

#### Note:

- Ensure a dynamic battery charger, capable of outputting 40 Amps is installed to the vehicle B+ and earth, do NOT use a trickle charger, the amperage input is not dynamic, errors can occur.

- Do NOT adjust or delete any files in the 'update' folder.
- The latest software version is SW-0000000969 (HU)
- If you have an issue while flashing HU, please use a "Branded USB stick".



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- Download the latest software onto a suitable USB Stick MY24.1 Software Update
- Insert the USB stick into USB-A connection in the center console storage area with Head Unit (HU) 'update' software data from software pack SW-0000000969 (HU). A notification will display stating 'USB connected'

9.



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#### GENERAL'.

On the central display select 'SETTINGS -

On the touchscreen, press and hold the area to the right of the **'GENERAL'** title for approximately 8 seconds. A screen will appear for PIN input.

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10.

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Note:

The last 2 digits will not change the display 'dots' as there are only 6.

On the PIN screen, input the PIN number: 46367308

#### 11.



1) Select 'System Update'.



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2) Select **'Start'.** 

#### 12.





#### Select 'ONE KEY UPDATE'

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#### Note:

- See VCI connection documentation (VCI AND CONNECTION GUIDE UPDATE V 2.0) for VCI self-help.

- Ensure the connection is **NOT** in simulation.

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INEOS AUTOMOTIVE Vehicle Connection Please ensure • Vid connected to tester and vehicle • Vehicle lighten is avtiched on Enter VIN or press "VIN Read" to read from vehicle T0000000000000	

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

- 3) Select 'VIN READ'.
- 4) Select **'NEXT'.**

14.

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æ,	ECU HARDWARE AND SC	PTWARE PART NUMBERS	
	🗢 🕕 HU - Head Unit		•
	OxF101 Bootloader part number	1 3101010101 010 20 3	
	0xF102 Calibration part number	1 3101010101 010 20 3	
8	OxF104 Application part number	1 3101010101 010 20 3	
	OvF105 Rasic software nart number	1 3101010101 010 20 3	
	OxF188 Manufacturer ECU software part number	1 3101010101 010 20 2	
	UxF103 Hardware Assembly part number	1 3101010101 010 20 3	
<b>0</b>	OxF191 Vehicle Manufacturer ECU hardware part number	1 3101010101 010 20 2	
	OxF18C ECU Serial Number	Negative response / Response not available	
	O 🕕 PDC - Parking Distance Control		•
<b>\$</b>	🛛 🕕 RVC - Rear View Camera		•
	O 🕕 SCM - Steering Column Module		0
	O 🕕 SCR - Selective Catalytic Reduction		0
	O 🕕 SWS - Steering Wheel Switches		•
	O 🚯 TRM - Trailer Module		•
	C 👔 TTC - Teiltale Controller		0
	© REFRESH ALL	CANCEL	
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Open the vehicle summary page.

- Select 'PART NUMBERS'.
- Select **'HU- Head Unit'.**
- Review the '**F188 Manufacturers ECU software part number**' check and ensure SW-0000000969 (HU) is displayed as the part number.

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15.

Complete a full and comprehensive check on the head unit functionality to ensure there is no operational concerns. Ensuring the Head Unit (HU) is functioning as intended, and the software aligns, the Head Unit (HU) Flash has been successful.

Select **'VERSIONINFO**' and check that all 3 dates are exactly the same.

To identify the dates, the information is written in the below format (Image shown for illustration purposes)

IpcVersion:Softversion: XXXXXX.**YYMMDD**.0hardversion:1.1A

McuVersion: XXXXXX.XXXXXX.YYMMDD.X

lviVersion: XXXXXX.XXXXXX.YYMMDD.X

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If an update fails, without functional faults, attempt the Head Unit (HU) flash of the application again. If the software application fails after 3 attempts, a Technical Support ticket should be raised. Provide the relevant information from the process step(s) to the INEOS technical support team to provide efficient support.

In the unlikely situation that a Head Unit (HU) software flash has not been deployed fully or flashed correctly, a Technical Support ticket must be raised. Provide the relevant information from the process step(s) to the INEOS technical support team to support.

16.

Release the vehicle.

#### **Change History**

Reference No.	Date	Description
IAMWO004251	05/06/2025	First release

