



Ferrari North America Technical Information

Date:	April 2021
Bulletin #:	2757
Campaign #:	466
Supersedes:	2748
Section:	8

This Technical Information Supersedes and Replaces the previous TI 2748

Model: **SF90 STRADALE**
Subject: Air Conditioning Node (NCL) software update

Please note that it may be necessary to update the software of the **Air Conditioning Node (NCL)** control unit on vehicles of the aforementioned model from VIN number 249268 to VIN number 265105.

The list of the vehicles involved in the update may be viewed directly from the **New Modis** portal, by selecting the section “**Recall and Service Campaign Management**” and entering the campaign number indicated.

- IMPORTANT -

All work on components of the high voltage electrical system may only be performed by qualified Ferrari-High Voltage Technicians (F-HVT) in possession of valid TÜV certification.

Air conditioning node (NCL) software update procedure

Preparing the vehicle for the update

- Check that the **SOC** (state of charge) of the **HVB** and **LVB** batteries is at least between **75%** and **90%** (or higher than 90%). Monitor the **SOC of the LVB** throughout the entire duration of the procedure. Never attempt to start an update procedure if the **SOC** is below **30%**. Set the vehicle to **KEY OFF** state and wait for the **SOC** of the battery to reach a value of at least **75% - 90%**.
- Disconnect the standard battery charger by pressing the unlock button on the car key. **First disconnect the plug on the vehicle side and then on the electrical network side.**
- Open the doors of the vehicle (the doors must be left open throughout the procedure) and wait for the vehicle to enter “**Sleep**” state (when backlighting of hazard warning light button extinguishes - this will take at least 15 minutes).

- IMPORTANT -

Do not open or close doors, use the steering wheel or internal controls or operate any function of the vehicle which may cause the vehicle to wake up from sleep state. If this occurs, it will be necessary to wait until the vehicle enters sleep state again.



Ferrari North America

- With the vehicle in “Sleep” state, disconnect the power feed fuse of the NIT F110, situated in fuse box FRB C312-LA (A) – Fig.5 and 6.

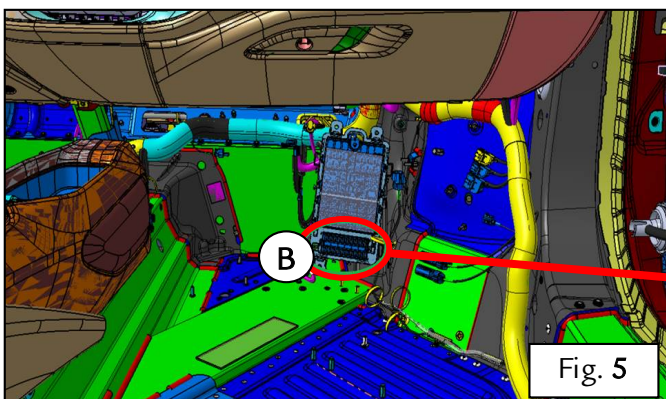


Fig. 5

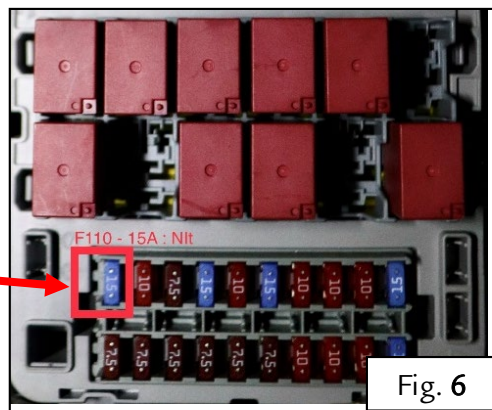


Fig. 6

- With the vehicle in “Sleep” state, the haptic KEY ON button will be powered off and disabled. Use the E-Latch handle of the driver side door to wake up the network.
- Turn the vehicle to KEY ON state.

Updating software with DEIS - **Requires DEIS version Alpha 6.0.0.0 or later**

The following software must be installed:

- **SF90 Stradale** - NCL SW Update: 03.01.

- IMPORTANT -

The intermediate update NCL 02.0D must be installed before installing version NCL 03.01. Install all the updates indicated in the “Activities” page of the DEIS.

- IMPORTANT -

If the aforementioned activity IS NOT LISTED on the DEIS Server, or if the software version to be loaded DOES NOT MATCH the version indicated in this bulletin, contact the FNA Help Desk (TechnicalSupport_FNA@Ferrari.com) and wait for further instructions.

If the NCL 2.08 update was installed as per TI 2748, then it is not necessary to install the NCL 3.01 update.



- IMPORTANT -

This update must be performed with the PC-Tester DEIS updated to the latest software versions indicated as follows (or later versions):

- Module 0	Portal and Troubleshooting	54
- Module 1	DEIS Diagnostic software	93
- Module 2	Technical Documentation	12
- Module 3	Tools	8

Check the software number and, if necessary, update your DEIS Tester immediately.

After updating the DEIS, the first vehicle diagnostic cycle must be performed using a cable connection.

- IMPORTANT -

Software downloading procedures must be performed with the cable DEIS-VCI connection, and NOT with Bluetooth and/or W-LAN connections.

- IMPORTANT -

If multiple downloads are necessary, always perform the downloads one at a time.

- IMPORTANT -

If the software update is not successful, repeat the procedure immediately without switching off the DEIS Tester and disconnecting it from the vehicle. If the Tester is disconnected from the vehicle, the VIN may not be recognized next time it is connected, and you will not be able to continue with other tasks.

- Connect the DEIS tester to the power supply.
- Connect the DEIS tester to the VCI interface with the specific network cable.
- Press “DEIS” to launch the diagnostic program.
- Select the NCL node and press “Extended Identification”.



Ferrari North America

- Save the identification parameter of the **NCL** node installed in the vehicle.
- Before starting to install the software update procedure, make sure that there are no errors in the **NCL** ECU. Rectify any problems indicated by the ECU before starting the software update procedure.
- Press “**Activities**” and follow all the steps for a normal software downloading procedure as prompted by the DEIS tester. Select the update required (**e.g.**: if starting from version **02.02**, install **02.0D** first and then **03.01**)

- Check that the ECU software update procedure has been completed successfully by comparing the identification parameters of the ECUs against the parameters prior to the update. Select the **NCL** node, press “**Extended Identification**” and check that the “**DRAWING NUMBER**” and “**SOFTWARE VERSION**” values match the software installed and that the “**PRODUCTION DATE**” value is the date in which the update was performed – Fig. 1.

Extended Identification	DTC	Fig. 1
ECU		
Engine Left	DRAWING NUMBER	
	HARDWARE NUMBER	
	HARDWARE VERSION	
	HOMOLOGATION NUMBER	
	ISO CODE	
	PRODUCTION DATE	
	SOFTWARE NUMBER	
	SOFTWARE VERSION	
	TESTER CODE	

- At the end of the procedure, remember to save the identification parameter for the selected node.
- After completing installation of all the software necessary, check that the version installed is effectively **03.01**.
- Set the vehicle to **KEY OFF** state.
- Refit fuse **F110** of the **NIT** (Fig. 5 and 6). It is not necessary to wait for the network to enter “**Sleep**” state.



Ferrari North America

- Set the vehicle to **KEY ON** state.
- Perform a **Proxi** alignment.
- Set the vehicle to **KEY OFF** state.
- Wait for the vehicle to enter “**Sleep**” state (when backlighting of hazard warning light button extinguishes - this will take at least 15 minutes).
- Reconnect the standard battery charger.
- Check that there are NO errors in the **NCL** node.
Note: If any errors are stored, open a **ROL**.
- Close the diagnostics program and disconnect the interface from the vehicle.
- Check for ECU errors with the **DEIS** tester using the “**SCAN OUT**” function. Resolve any problems that arise.
Note: The **SCAN OUT** procedure is mandatory for vehicle approval.
- Checking correct operation of **recirculation** actuator.

Services under warranty

The costs incurred for this service must be recovered through our **Warranty System** indicating:

SF90 Stradale

› Campaign number	466
› Cost code	23
› Malfunction code.....	7309000353
› Problem code.....	01
› Operation code.....	73090003531
› Time allowance	1.50 hours

Thank you for your co-operation.