



Ferrari North America

Technical Information

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Subject: Information Regarding the E-FE010 LaFerrari battery maintainer

In order to support the diagnosis of problems related to the battery maintainer provided with the LaFerrari and LaFerrari Aperta, we would like to remind you to observe the summary table provided below, showing the indicator lights on the battery maintainer itself and their meaning.

A correct understanding of these indicator lights is essential in order to instruct the customer on how to use the battery maintainer and what to do in the event of a fault, thereby limiting unnecessary assistance requests. It is therefore recommended that you clearly inform the customer that the Ferrari Dealership is available to provide any clarifications regarding operation of the battery maintainer.

- IMPORTANT -

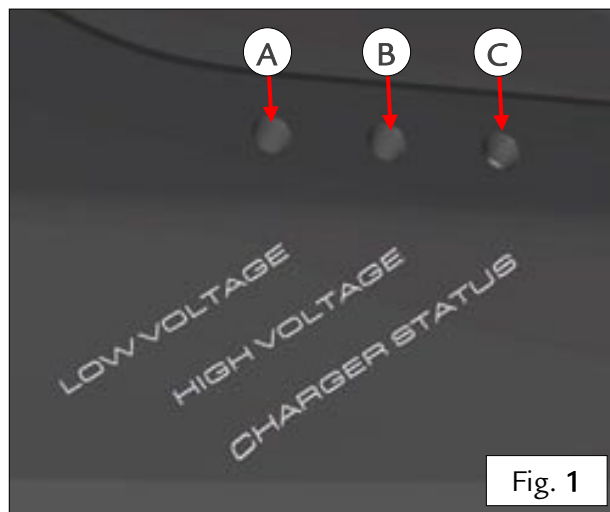
It is important that the customer is fully informed of what the indicator lights mean and that they regularly check the battery maintainer for warning indications.

- IMPORTANT -

Connecting the device to the vehicle does not ensure that the batteries will be automatically charged. If any faults are detected, the battery tender will block for safety reasons and it may be necessary to carry out the procedures indicated in the tables attached

The battery tender has 3 indicator lights (Fig. 1):

- **A:** Low voltage charge warning light (Low Voltage), BLUE;
- **B:** High voltage charge warning light (High Voltage), ORANGE;
- **C:** Operating status indicator light (Charger Status), GREEN/RED/ORANGE.



The table below shows the possible combination of the indicator lights and the relevant meaning.

INDICATOR LIGHT STATUS WITH CORRECT OPERATION

Warning light A Low Voltage	Warning light B High Voltage	Warning light C Charger Status	Meaning
Blue Flashing	Off	Green Fixed	The battery tender is connected to the wall outlet and the vehicle. The low voltage battery (Low Voltage) is charging.
Blue Fixed	Orange Flashing	Green Fixed	The battery tender is connected to the wall outlet and the vehicle. Low voltage battery (Low Voltage) charging is complete. The high voltage battery (High Voltage) is charging.
Blue Fixed	Orange Fixed	Green Fixed	<p>The battery tender is connected to the wall outlet and the vehicle. Charging of both batteries (Low Voltage and High Voltage) is complete.</p> <p>At this point, the high voltage battery (High Voltage) is subject to a treatment known as “Balancing”.</p> <p>This process can last up to 12 hours, and the State of Charge of the high voltage battery (High Voltage) can reduce: this is normal.</p>
Blue Flashing at 5 second intervals	Orange Flashing at 5 second intervals	Green Flashing at 5 second intervals	The battery tender is connected to the vehicle and has also completed the “ Balancing ” stage.

INDICATOR LIGHT STATUS WITH PROBLEMS PRESENT

Warning light A Low Voltage	Warning light B High Voltage	Warning light C Charger Status		Meaning
Off	Off	Orange Fixed		<p>The battery tender is connected to the wall outlet but NOT to the vehicle.</p> <p>If the battery tender is connected to the vehicle but the following combination of indicator lights occurs, proceed as indicated below:</p> <ul style="list-style-type: none"> - disconnect and carefully reconnect both connectors. <p>If necessary, clean the magnetic contact of any impurities which could compromise the contact.</p>
Off	Off	Alternating Green	Alternating Orange	<p>The battery tender is connected to the wall outlet and the vehicle, and has detected at least one isolation fault. The device blocks charging for safety reasons. The batteries <u>are not being charged.</u></p> <p>Try to restore the battery tender following the indications provided below:</p> <ul style="list-style-type: none"> - Disconnect the high voltage battery charge connector (High Voltage) and the low voltage battery charge connector (Low Voltage); - Disconnect the battery tender from the wall outlet until all the indicator lights have deactivated; - Reconnect the device to the wall outlet and to the vehicle. <p>If the problem persists after having carried out the procedure indicated above, advise the Customer to contact the Authorised Service Network.</p>
Off	Off	Alternating Red	Alternating Orange	<p>The battery tender is connected to the wall outlet but NOT to the vehicle and has detected at least one isolation fault. Try to restore the battery tender following the indications provided below:</p> <ul style="list-style-type: none"> - Disconnect the high voltage battery charge connector (High Voltage) and the low voltage battery charge connector (Low Voltage); - Disconnect the battery tender from the wall outlet until all the indicator lights have deactivated; - Reconnect the device to the power network and to the vehicle. <p>If the problem persists after having carried out the procedure indicated above, advise the Customer to contact their local Authorized Ferrari Dealer.</p>

Off	Off	Red Fixed		<p>The battery tender is connected to the wall outlet and the vehicle, and has detected a fault during the charging stage. The device blocks charging for safety reasons. The batteries <u>are not being charged</u>.</p> <p>This condition could occur also if the battery tender is connected to the wall outlet but NOT to the vehicle. In both cases, try to restore operation of the battery tender following the indications provided below:</p> <ul style="list-style-type: none"> - Disconnect the high voltage battery charge connector (High Voltage) and the low voltage battery charge connector (Low Voltage); - Disconnect the battery tender from the wall outlet until all the indicator lights have deactivated; - Reconnect the device to the wall outlet and to the vehicle. <p>If the problem persists after having carried out the procedure indicated above, advise the Customer to contact their local Authorized Ferrari Dealer.</p>
Off	Off	Red Flashing at 5 second intervals		<p>With the battery tender connected to the wall outlet but NOT to the vehicle, one fault is detected. Try to restore the battery tender following the indications provided below:</p> <ul style="list-style-type: none"> - Disconnect the high voltage battery charge connector (High Voltage) and the low voltage battery charge connector (Low Voltage); - Disconnect the battery tender from the wall outlet until all the indicator lights have deactivated; - Reconnect the device to the power network and to the vehicle. <p>If the problem persists after having carried out the procedure indicated above, advise the Customer to contact their local Authorized Ferrari Dealer.</p>
Blue Flashing	Off	Green Alternating	Red Alternating	<p>The battery tender has detected a fault while charging the low voltage battery (Low Voltage) and blocks charging for safety reasons. The batteries <u>are not being charged</u>.</p> <p>Try to restore the battery tender following the indications provided below:</p> <ul style="list-style-type: none"> - Disconnect the high voltage battery charge connector (High Voltage) and the low voltage battery charge connector (Low Voltage); - Disconnect the battery tender from the wall outlet until all the indicator lights have deactivated; - Reconnect the device to the power network and to the vehicle. <p>If the problem persists after having carried out the procedure indicated above, advise the Customer to contact their local Authorized Ferrari Dealer.</p>

Blue Fixed	Orange Fixed	Green Alternating	Red Alternating	<p>The battery tender has detected a fault during the "Balancing" process of the high voltage battery (High Voltage) and blocks charging for reasons of safety. The batteries are not being charged.</p> <p>Try to restore the battery tender following the indications provided below:</p> <ul style="list-style-type: none"> - Disconnect the high voltage battery charge connector (High Voltage) and the low voltage battery charge connector (Low Voltage); - Disconnect the battery tender from the wall outlet until all the indicator lights have deactivated; - Reconnect the device to the power network and to the vehicle. <p>If the problem persists after having carried out the procedure indicated above, advise the Customer to contact their local Authorized Ferrari Dealer.</p>
Off	Off	Off	<p>If the appliance does not come on and no indicator light or acoustic indicator activates when it is connected. Verify:</p> <ul style="list-style-type: none"> • that the integrated Trip Switch is set to "ON"; • that the domestic power socket is receiving power correctly; • the plug is connected to the wall outlet; • the High Voltage and Low Voltage connectors are correctly connected to the vehicle; <p>If no fault is identified following these checks, this indicates that the problem is due to an internal fault in the battery tender.</p>	

Thank you for your co-operation.