

Critical 12V Li-ion Battery Recycling

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
911 Carrera	As of 2020	992	N/A	Lithium-ion 12V battery (I-no. J2A)
Cayenne	As of 2019	9YA/ 9YB	N/A	N/A
Taycan	As of 2020	Y1A	N/A	N/A
918 Spyder	2015	918	N/A	N/A

Revision History

Revision	Release Date	Changes
0	May 7, 2021	Original document
1	December 3, 2021	Updated to include both critical and noncritical 12 V Li-ion battery recycling
2	March 6, 2024	Update of recycling partner information

Condition

The 12 V Li-ion starter battery voltage is too low and the contactor has opened. From the customer's standpoint, the vehicle battery is dead. The workshop confirms this condition.

Technical Background

The workshop will recycle this 'dead' battery in different ways, depending on if the technician classifies the battery as **critical** or **noncritical**.

For important information about classification, please see relevant workshop manuals.

Service Information

If you need to recycle the 12 V vehicle battery and you classify the battery as noncritical, please recycle the battery using the steps below. (Also see the High Voltage Battery PPN space.)

1. Take a photo of the battery with the serial number visible along with the results of a voltage test. (See figures 1 and 2).
2. Fill out the attached "Porsche LRF Template" form & send an email requesting a safe Li-ion battery container to: customerops@redwoodmaterials.com. The subject of the email must include the term "Noncritical."
3. Redwood will schedule the shipment of the container and provide packing and pickup instructions.

If you classify the 12 V vehicle battery as **critical**, it may be possible to correct the fault and recover the battery. Store the battery in a safe manner and in a safe location. (See applicable workshop media for tips.)

Follow these steps:

Try to close the contactor with the battery outside the vehicle

1. Connect the battery to the Deutronic charger and supply power to the battery. Wait 30 seconds for the contactor to close. (You will hear a click if it closes.)
 - a. If the contactor closes, reclassify the battery.
 - b. If the contactor does not close, proceed to step 2.
2. Wait 48 hours.
3. Reconnect the battery to the Deutronic charger and try to close the contactor again.
 - a. If the contactor closes, reclassify the battery.
 - b. If the contactor does not close, proceed to step 4.

The battery is critical and you cannot close the contactor. It is irrecoverable. Document the critical battery and prepare to ship it to the recycler.

4. Take a photo of the battery with the serial number visible along with the results of a voltage test. (See figures 1 and 2).

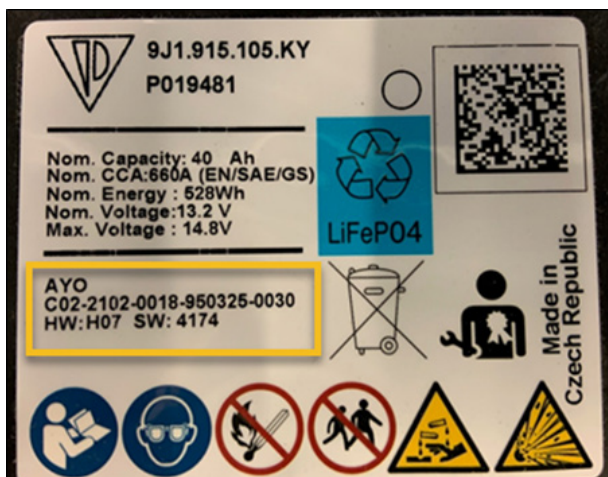


Figure 1 - Battery serial number along with HW and SW versions.



Figure 2 – Voltage test indicating an open connector

5. Send an email requesting a safe Li-ion battery container to: customerops@redwoodmaterials.com. The subject of the email must include the term "Critical."
6. Redwood will schedule the shipment of the container and provide packing and pickup instructions.

See also:

WM, 2X00IN Packing 12-volt lithium-ion battery with battery status "Warning" (critical)

TI, 2700 Information - Handling 12-Volt Lithium-Ion Batteries (Vehicle Electrical System Battery) (31/20)

Search Items

Recycling, disposal, scrap, warning, 12 V, 12V, LiFePO, LiFePO4, starter

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