

## 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

### 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. Send an email requesting a safe Li-ion battery container to: [porsche-support@xevstrategies.com](mailto:porsche-support@xevstrategies.com). The subject of the email must include the term "Noncritical."
3. KBI 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).

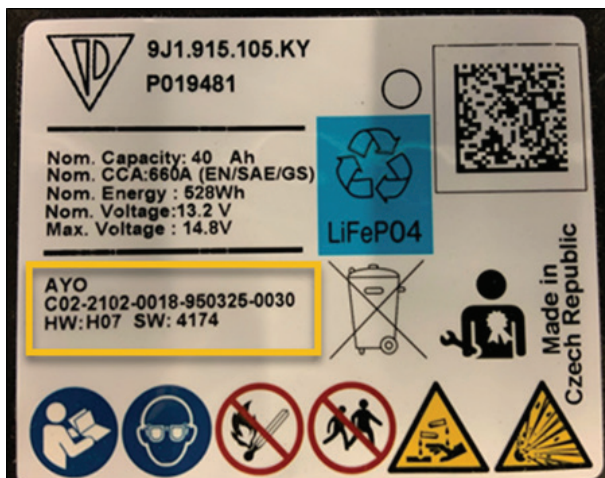


Figure 1 - Battery serial number along with HW and SW versions.



Figure 2 – Voltage test indicating an open connector

5. Send an email requesting a safe Li-ion battery container to: [porsche-support@xevstrategies.com](mailto:porsche-support@xevstrategies.com). The subject of the email must include the term "Critical."
6. KBI 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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