

PAPR RECHARGEABLE BATTERIES

Model Assemblies Affected: MP-PAPR/CS-PAPR/EZAIR

Component Assemblies Affected: 2600 Li-Ion Rechargeable Battery 600208 (Stereo Jack connector)

5200 Li-Ion Rechargeable Batteries 605171 (In-line connector), 600214 (Stereo Jack connector)

Avon Protection has identified a potential scenario whereby PAPR system rechargeable battery packs (2600/5200) are failing to charge correctly or not at all.

Statement

A small number of Avon Protection customers have reported issues with their rechargeable PAPR system batteries. Users have been unable to fully charge the batteries thereby reducing run time, or not be able to charge the batteries at all.

Potential Factors Affecting Battery Performance

Incorrect storage conditions: Batteries must be stored in their original packaging (if possible) out of direct sunlight and in a cool dry ventilated area preferably 20°C ± 10°C (68°F ± 18°F) <60 % relative humidity. Batteries must not be left fitted to the PAPR blower motor or in the battery charging unit as this will discharge the battery over a short period of time.

Poor Handling: Inspect the battery pack and do not use if there are signs of damage such as cracks, corrosion on contacts, swelling of the battery pack compartment or leaking of fluids.

Incorrect or Missing Battery Maintenance Regime: Avon Protection recommends a rechargeable battery maintenance schedule be followed to ensure the highest level of battery pack performance. Once a battery has been used it must be fully charged.

- Minimum 5 hours for a 2600 battery pack
- Minimum 12 hours for a 5200 battery pack

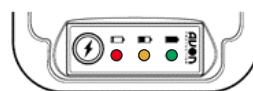
Then replaced in it's original packaging. This action must be documented and repeated at least every six months even when not in use to ensure battery health and prevent the battery over-discharging. If a battery reaches an over-discharged state it can no longer be recharged and must be replaced.

Battery Pack Maintenance Schedule			
Serial Number			
In Service Date			
Use Date			
Charge Date			
Charge Hours			
Charge Due			

A chart containing all rechargeable pack serial numbers should be implemented to record use dates, recharge dates and charge times. (Example shown)

Battery has reached its maximum number of charges: The predicted life expectancy of the battery packs is >500 charges.

Rechargeable Battery Packs Maintenance:



The battery pack charge indicator has 3 different light colours to indicate the battery pack's remaining charge capacity:

Green= fully charged

Yellow= ½ charged

Red= low charge (needs recharging)

- If the charge indicator button is depressed and held during idle time or in normal use, the appropriate capacity light colour (red, yellow or green) will glow steadily.
- If the charge indicator button is depressed and held during charging, the appropriate capacity light colour (red, yellow or green) will flash. Flashing indicates that the battery pack is charging.
- If the charge indicator button is depressed and held during a high charging temperature situation, all three light colours (red, yellow or green) will flash simultaneously. This is a built-in safety feature to protect against over temperature situations.
- The charge indicator will return to a normal charge operation when the battery pack cools down and the charging temperature is reduced to a safe level.

Identifying an over-discharged battery pack:

The 5200 rechargeable extended battery pack is in the over-discharge condition when the indicator lights are very dim or will not turn on when the charging indicator is checked.

The 2600 or the 5200 rechargeable battery pack which has been over-discharged and will not respond to charging can be identified by the following methods.

- Place the battery pack in the charger for 30 minutes.

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Rechargeable battery packs Maintenance (cont):

- Install the 2600 rechargeable battery pack on the Avon EZair blower and check for operation of the blower, or on the 5200 rechargeable battery pack, re-check the charging indicator lights.
- If the blower runs (2600 rechargeable battery pack) or the lights (5200 rechargeable battery pack) appear normal, continue charging the battery pack for up to 12 hours.

Summary

- Ensure your battery pack is fully charged before use. Do not use battery pack in any Avon Protection system unless fully charged. Leave battery pack in charger for no less than 5 hours (2600 battery pack) and no less than 12 hours (5200 battery pack).
- Recharge battery pack after each use or at least once every 6 months.
- Once fully charged, remove the battery from the charger and store in original supplied packaging ready for next use.
- Ensure that the remote switch port is plugged if not in use (applies to stereo jack option).
- Do not leave battery pack installed in the blower, otherwise it will discharge the battery pack within a couple of days.
- Store units out of direct sunlight and in a cool dry ventilated area preferably 20°C ± 10°C (68°F ± 18°F) <60 % relative humidity.
- Avoid storing in places where conductive materials can come into contact.
- Only use Avon Protection supplied battery charger, do not use any other methods to charge battery.

Disposal

Lithium Ion (Li-Ion) rechargeable batteries contain toxic chemicals and are detrimental to the environment. All expired Li-Ion batteries must be disposed of by recycling if possible, by a registered waste recycling operator or in accordance with all local, state or government protocols. DO NOT dispose of Li-Ion batteries in the general waste system.

Warning

Inspect the battery pack and do not use if there are signs of damage such as cracks, corrosion on contacts, swelling of the battery pack compartment or leaking of fluids.

Do not attempt to dismantle or compromise the casing of any Avon Protection rechargeable battery pack.

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