



## Essential New Battery Information



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## Instructions: Using Your New Cells

Your brand new cells have arrived! Here are some instructions on how to get the best from them.

After refurbishment your battery was fully charged and tested. As a result there may be some remaining charge when it arrives.

To help ensure the longevity of the battery and the new cells inside, please follow these steps:

- Do not charge the battery initially when it arrives.
- Use the battery as normal until the stored charge dissipates - this may not take long.
- Once the battery is empty\*, please charge it fully following the manufacturer's guidelines.
- Begin to use your tool as normal.

(\*Note: the battery is empty when, for example, a drill first stops spinning; so do not over-discharge cells by continuing to use your tool after this point.)

- Your newly refurbished battery will take a couple of charge / discharge cycles to reach its maximum capacity.



## Battery Handling Advice

### Battery Memory Effect

- Nickel Cadmium (NI-CD) cells can suffer a memory effect if not fully discharged before recharging. To prolong the lifetime of the battery always try to discharge it fully before recharging.
- If a NI-CD battery is charged from half-full state, it may continue to only take half a charge thereafter.
- Nickel Metal Hydride (NI-MH) cells do not have the same issues of memory effects. They can be topped up on the charger. But they do perform best with a full discharge and recharge cycle every month or so.
- Sealed Lead Acid cells should be charged after every use and do not suffer a memory effect.
- Lithium Ion (Li-ion) cells do not suffer a memory effect. These can be charged at any point. Li-ion cells maintain stored charge for longer than other types, they should still be fully charged after use and before storage.



## Longevity

- Batteries are particularly sensitive to temperature - excessive heat or cold can seriously damage the cells.
- Batteries are best kept in a cool place below room temperature. They will also hold charge for longer when stored for extended periods if kept cool.
- Try not to let you batteries freeze in a cold shed or garage over winter. This can damage the cells and they may not recover.
- The cells and charger will get warm during charging. This is normal and most packs will have thermal sensors to regulate them.
- Never use a hot battery straight from the charger, allow it to cool for 15 minutes first. Similarly, never charge a battery when it is warm.
- Do not overcharge. Follow the manufacturer's guidelines. If a battery is not taking charge, charging for extended periods will not solve this problem but may damage the cells.
- Do not charge batteries overnight - see the precautions about the dangers of overcharging.

## Storage

- If you need to store a battery for long periods of over a month, you want to avoid letting the cells "deep discharge".
- Charge fully before storage. Cells lose their charge slowly while stored. If a battery is stored in a discharged state it may lose charge to the point of deep discharging, from which it may not recover.
- Storage in a cool place will maintain the battery charge for longer, cells lose around 10% charge per month at room temperature.

## PRECAUTIONS PLEASE READ

- First - please note batteries can be dangerous!
- The most dangerous aspect of handling batteries is the charging stage, as mains voltage and heat are involved.
- NEVER LEAVE A BATTERY CHARGING UNATTENDED!
- A malfunctioning charger or battery has the risk of overcharging the cells. This can cause the cells to swell, leak, vent gas or even explode.
- As a precaution, **DO NOT** charge on carpet or inflammable surfaces - a concrete floor is more suitable.
- Monitor the battery while charging. If there is any sign of excessive heat - or smoke or fire - turn off the charger immediately!
- If faults occur with a battery supplied by us, do not attempt to dismantle the battery or recharge again. Contact us for advice. Our batteries have a 12-month warranty. Please leave the investigation and repair to us.
- Another potential risk is from short circuiting the battery. Do not short out the positive and negative contacts. Do not disassemble, or use the battery in a way it was not design for - this will invalidate the warranty.

After servicing many thousands of batteries, we have seen all of the above! So please be careful and exercise common sense.

This leaflet has been produced to help our customers most effectively maintain their current and newly refurbished batteries.

The information is drawn from our years of experience and research with rechargeable battery systems. Please contact us if you feel there are points to add, for advice or with any questions.

## Remember to check the website for:

- Latest Offers
- New Developments
- Low Cost Battery Refurbishments



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