



# BATTERY CARE



# X10DR<sup>®</sup>

LIBERATE YOUR MOBILE RADIO

## Service Support

A number of our customers have asked for our guidance regarding the proper care of X10DR handsets to obtain optimum performance from their internal Lithium Polymer batteries. The capacity of the battery inside the X10DR was selected to provide well in excess of the typical user's daily needs in between charges. Additionally, the charger cradle concept was implemented so the battery is always being topped up whenever it is not being worn by the user. Unless your duties mean you are constantly in and out of the vehicle all day, then we suggest you drop the handset back into the cradle while you drive to your next work assignment. Unlike other battery technologies, Lithium Polymer batteries provide the longest operational life by being charged often. Discharging them deeply and often can shorten the battery's practical useful working life and may lead to bloating (swelling).

### Recharging:

Simply place the handset into its charger pocket. The X10DR will beep to confirm the correct placement. Charging will commence. The handset can be left or removed from the charger once the handset is fully charged (Blue LED solid - momentarily blinks every 10 seconds when charging). Once full charged the handset can safely be left in the charger as only a very small amount of top up current is applied as and if needed.

### Long term storage

Should you expect to not be using the X10DR for a number of months, then we recommend that you first prepare the battery. To do this take a fully charged handset, leave it powered on for about two hours, with gateway turned off (Handset status LED flashing). Now turn the handset off and seat it in the cradle back to front so it cannot charge. When you need to use it again, simply drop it back in the correct way around and it will power up and it will still be about 80% capacity, typically more than enough charge for most users.

### Battery status alert tone indicator

When you notice the X10DR sounding two chirps every five minutes, it indicates the battery is nearly flat and should be re-charged. By default, a new handset will self-power down usually within 20-30 minutes of the programmed alert tone setting. If you prefer, your the handset can be programmed for a longer pre-alert period. When you notice these alert tones occurring far more often than usual, it usually means it is time for the battery to be replaced. A plug-in replacement can be fitted in less than 2 minutes.

### Nothing is forever

All re-chargeable batteries have a use-by date. For optimum X10DR performance, we suggest you plan to replace your batteries every 2 years especially if they are in constant heavy use and constantly being re-charged. Otherwise, you could find your battery only has a few hours of operating life which might cause huge disappointment in the event of major incident occurring. A typical battery can be used for a total of about 500 full work days. ...do the maths. In use for 7 days a week that means about 18 months of average use. 5 days a week ...~ 2 years.

### Battery Bloating (swelling)

Bloating sometimes affects all products that use this Polymer technology whether that is the latest Apple iPhone, Samsung Galaxy, or your X10DR. To limit this natural phenomenon, we have listed below some key ways to maximize your X10DR's battery performance. Lithium Polymer batteries may suffer from bloating depending on a variety of factors. It may occur if the battery is overheated e.g. being left in the direct sun, the excessive heat of which causes minor impurities within the battery's chemistry to produce oxygen which in turn causes the battery to swell. Alternatively, constantly deep discharging your battery may cause it to swell. Sometimes bloating occurs for no obvious reason. If you notice the handset is starting to feel swollen, even if still operational, the handset should be returned to your dealer for a replacement battery to be fitted. Replacement batteries are available from your dealer for **around \$38, which equates to around 7 cents a day**. Naturally, in the unlikely event it occurs during the first 12 months of service it will be covered by warranty. Whatever the circumstances, play it safe and replace batteries periodically, the same as you do the oil in your car. No one needs a seized engine, nor a communications device that can't talk!

### Summary:

- 1/ Never let the battery deeply discharge. Top it up often.
- 2/ Re-charge handset whenever you can, never let it go completely flat.
- 3/ Don't leave the handset in a vehicle in direct sunlight in hot weather.
- 4/ Discharge for 2 hours before long term, non-charged, storage.
- 5/ Plan on replacing battery around every 2 years. (~ 500 full workdays ~ "7 cents a day")
- 6/ Read the user manual for more valuable tips to optimize your X10DR's performance. *Download:* [www.x10dr.com](http://www.x10dr.com)



**XSMB-C14**  
Replacement Battery  
1450mA Li-PoL  
**12 months warranty**