

# **RADIO BATTERY MANAGEMENT TIPS**

## **Motorola IMPRES Battery / Charger Indicator Lights**

When purchasing a Motorola solutions IMPRES BATTERY or CHARGING SYSTEM, you can manage your radio battery usage and performance, with the latest technology in reconditioning and end of life display data.

A key is for the lighting sequences are found underneath single chargers and on the top of multichargers.

The intelligent battery / charger system will identify the current status of the battery and indicate it by the LED colour on the charger pod. This is the same on both the single charger and six way charger.

### **IMPRES Indicator Light Chart**

<i>Charger Indicator</i>	<i>Description of Indication ONLY FOR IMPRES BATTERIES.</i>
<b>Single Flash Green</b>	Charger has successfully powered up and is ready for use.
Steady Red	Battery is in rapid charge mode.
Flashing Green	Battery has completed rapid charge (>90% available capacity). Battery has switched to trickle charge mode for remaining 10%.
Steady Green	Battery has completed charging and is 100% charged.
Flashing Yellow	Battery is recognized by charger and is assessing the status of the battery. When the charger has completed it's assessment it will act depending on the IMPRES battery status.
Flashing Red	Battery is unchargeable or not making proper contact. Clean contacts of charger and battery with a dry cloth.
Steady Yellow	Battery is in recondition mode. The length of time the charger remains in this mode depends upon the state of charge remaining in the battery when inserted. Fully charged batteries require more time to recondition – 8 to 12 hours or more – than fully discharged batteries. SEE BELOW FOR MORE OPTIONS ON RECONDITIONING.
Flashing Red / Green	Battery has completed charging and is fully charged. Battery continues to be usable but maybe nearing the end of its rated battery life.

## IMPRES Automatic Battery Conditioning

Motorola IMPRES Adaptive Chargers, when used in conjunction with a Motorola IMPRES battery, have the ability to determine the appropriate time to recondition the battery. When an IMPRES battery is properly inserted into the charger, the charger determines if it is appropriate to recondition the battery. If the battery needs reconditioning, the charger automatically indicates a **STEADY YELLOW**.

This process may take up to 12 hours to complete, depending upon the state of charge and capacity rating of the battery when it is inserted. It is important to note, for this process to be effective, the IMPRES battery must be allowed to complete the recondition/recharge process. Leave the battery in the charger until the charger indicates a **STEADY GREEN**. At the completion of the recondition cycle, the charger automatically recharges the IMPRES battery.

## How to Terminate the IMPRES Conditioning Process

At any time during the reconditioning process of a Motorola IMPRES battery (**STEADY YELLOW** indication), reconditioning may be terminated by removing and reinserting the battery back into the charger within 5 seconds. This causes the charger to terminate the reconditioning process and begin the charging process. The charger indicator changes to a **STEADY RED**. The charger will attempt to recondition the battery at the next battery insertion.

## Manually Initiating the IMPRES Reconditioning Process

Within 2 ½ minutes of the initial insertion of an IMPRES battery (**STEADY RED** indication), remove and reinsert the battery within 5 seconds to manually force reconditioning to occur. The charger indicator changes from a **STEADY RED** to a **STEADY YELLOW**. This forces the charger to recondition and automatically recharge the battery. This is a useful feature to have when IMPRES batteries have been in storage for several months or longer. Two or three manual recondition cycles may be required to rejuvenate the batteries, due to long term storage conditions.

## Key For Lights on Charger

