

## Motorola Solutions Technical Notification (MTN)

**TITLE:** MOTOTRBO™ SLR 5x00 and SLR 8000 series repeaters configured for both *DC Primary Source* and *Battery Charging* at the same time.

**TECHNOLOGY:** MOTOTRBO™ SLR 5000 series repeaters and SLR 8000 series repeaters

### **SYMPTOMS:**

On the SLR 5000 and SLR 8000 repeaters CPS/RM allows the selection of both *DC Primary Source* and *Battery Charging*.

The power supply does not support this combination of setting as it would create a short charge cycle loop between:

- 10.5v (Low voltage detect) - Below this threshold battery is considered fully discharged. Supply is being switched to AC and battery charging begins.
- 11.0V (Pre-alarm value) - Above this threshold alarms are cleared. Supply is being switched to back DC as this is configured as primary power source, Battery starts being discharged, even though charging cycle didn't finished.

This programming combination is not supported and should be avoided.

Valid configurations are as follows:

If battery with external charger is used, then:

- *DC Primary Source* can be enabled
- *Battery Charging* should be disabled
- Battery should be enabled
- DC Operation Only should be disabled

If battery without external charger is used, then:

- *DC Primary Source* should be disabled
- *Battery Charging* should be enabled
- Battery should be enabled
- DC Operation Only should be disabled

If a non battery DC source without AC backup is used then:

- DC Operation Only should be enabled
- Battery should be enabled
- *DC Primary Source* should be disabled / grayed out
- *Battery Charging* should be disabled / grayed out

If a non battery DC source with AC backup is used then:

- DC Operation Only should be disabled
- Battery should be enabled
- *DC Primary Source* should be enabled
- *Battery Charging* should be disabled

### **MODELS / SYSTEM RELEASES / KITS / DATE CODES AFFECTED:**

SLR 5000 series and SLR 8000 series repeaters.

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**SEVERITY RECOMMENDATION:**

**Low / Maintenance** - Perform if system exhibits above symptoms

**ROOT CAUSE / DEFINITIVE TEST:**

SLR 5000 and SLR 8000 repeaters can be setup to use DC as Primary Supply source and Battery Backup at the same time. This configuration should not be selected as the power supply does not support this as it would create a short charge cycle loop between 10.5v (Low Voltage Detection) and 11.0V (Pre-alarm value).

**WORKAROUNDS AND CORRECTIVE ACTIONS:**

This configuration is not supported and should be avoided when configuring and programming the repeater.

**RESOLUTIONS AND REPAIR PROCEDURES:****PARTS REQUIRED (HARDWARE/SOFTWARE):**

N/A

**ADDITIONAL INFORMATION:**

N/A

**REFERENCE THE FOLLOWING DOCUMENTS/PROCESSES FOR INSTALLATION PROCEDURES:**

N/A

**WHEN TO APPLY RESOLUTION:**

After reboot \_\_\_  
After (re)installation \_\_\_  
After upgrade \_\_\_  
After power cycle \_\_\_  
After database restoration \_\_\_  
After failure \_\_\_  
On FRU replacement \_\_\_  
During maintenance \_\_\_  
Immediately \_\_\_  
As instructed \_\_\_ X  
Information only \_\_\_

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