



TO INFORM YOU

**PRODUCT
SUPPORT
BULLETIN # 491**

TO: AUTHORIZED *portable electric tool* SERVICE STATIONS
factory SERVICE CENTERS

DATE: October, 2008

TOOL(S) \ PRODUCT(S) AFFECTED: 48-11-1815, 48-11-1828 18.0V Compact & XC Lithium-Ion Battery Pack
48-11-1830 V18™, 48-11-2830 V28™ Lithium-Ion Battery Pack

SUBJECT: 'bottom fuel gauge flashes once' | battery pack SHUT DOWN protection | battery must be placed on charger to be reset

Lithium-Ion Battery Pack Protection -

To protect the battery pack from damage and extend its life, the battery pack's intelligent circuit monitors current draw and internal pack temperature.

In extremely high torque, binding, stalling or a short circuit situation, the battery pack will turn itself and the tool OFF if the current draw becomes too high. In extremely high torque / high amp draw binding or stalling situations, the tool will "buzz" for between 2 - 5 seconds alerting a user of the high amp draw before it turns OFF. To prevent the tool from turning OFF, immediately reduce the force being applied to the work or release the trigger. If the tool does turn OFF, release the trigger to reset. If a high torque / high amp draw binding or stalling happens repeatedly, the battery pack will **SHUT DOWN** and need to be placed on the charger to reset. **To determine if the battery pack has SHUT DOWN and needs to be placed on the charger to be reset, press the fuel gauge button; if the bottom**

gauge flashes once, the battery must be reset by placing it on its charger.

Under extreme circumstances – heavy loading, high torque, binding, stalling, the internal temperature of the battery can become high. If this happens, the battery pack will **SHUT DOWN** and needs to be placed on the charger to reset. Remove the battery pack from the tool and place it on the charger to reset it. **To determine if the battery pack has SHUT DOWN and needs to be placed on the charger to be reset, press the fuel gauge button; if the bottom gauge flashes once, the battery must be reset by placing it on its charger.**

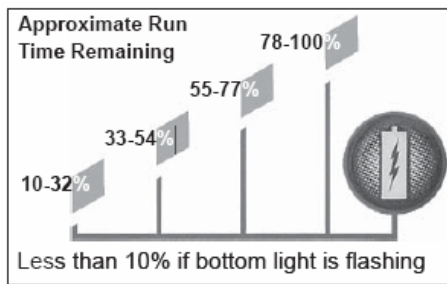
Within seconds of being place on a charger to 'reset', the pack fuel gauge lights will show the battery packs capacity at the point of shut down; one, two, three or all four lights lit.

Cold Weather Operation

MILWAUKEE Lithium-Ion battery pack can be used in temperatures down to -4°F. When the battery pack is very cold, put the battery pack on a tool and use the tool in a light application. It may "buzz" for a short time until it warms up. Use the tool normally when the buzzing stops.

Fuel Gauge

Use the **Fuel Gauge** to determine the battery pack's remaining run time. Press the **Fuel Gauge** button to display the lights. The **Fuel Gauge** light(s) will stay lit for two seconds.



NOTE: If the Fuel Gauge doesn't appear to be working, place the battery pack on the charger and charge as needed. Unlike other battery pack types, MILWAUKEE Lithium-Ion battery packs deliver fade-free power for their entire run time. The tool will not experience a slow, gradual loss of power as you work. To signal that the battery pack is at the end of its run time and needs to be charged, power to the tool will drop quickly. When this happens, remove the tool from the work and charge the battery pack as needed.

NOTE: **Immediately after using the battery pack, the Fuel Gauge may display a lower charge than it will if checked a minute or two later. The battery cells "recover" some of their charge after resting.**

This bulletin is for informational purposes. PLEASE NOTE ON SERVICE PARTS LIST: 54-04-1800, 54-04-1820, 54-04-7010, 54-04-7030, 54-06-0840, 54-06-2610, 54-06-2620, 54-08-7000, 54-24-0830, 54-24-2620, 54-24-7010, 54-24-7020, 54-24-7021, 54-26-0880, 54-26-0890, 54-26-2710, 54-26-7000, 54-26-7010, 54-38-0725, 54-40-2620, 54-40-7000, 54-40-7001, 54-40-7020, 54-40-7040, 54-40-7050