40 Volt Lithium Auger Powerhead Beep Sequence Guide:

If while operating the unit, the powerhead stops turning the auger, keep the power button pressed in and hold it. The powerhead will emit an audible beep sequence. Count the number of beeps that sound in a row. The same number of beeps will repeat over and over with a pause in between these sequences, as long as the button is held down. Once the beep sequence is counted, the button can be released.

Issue: Stops randomly, and emits one of the following beep(s) sequence(s) (equipped with warm, fully charged battery).

Diagnosis: Varies, depending on the specific beep sequence. See below.

Solution: Varies, depending on the specific beep sequence. See below.

BEEP COUNT - 1

Reason: Unacceptable electrical current within powerhead. AKA: overcurrent.

Solution: Release power button, stop cutting, and wait a moment. Try again. If it repeats, check blade condition and blade bolt tightness.

AKA: overcurrent. Current is the flow of electrons in a circuit or electrical system. Overcurrent is when a larger than intended current passing through the system is detected, and exceeds the programmed acceptable range limit point. If a slowly rising or abrupt peak current occurs within the system, due to some internal issue or outside influence, **the control board/PCB will sense this overcurrent a**nd stop powerhead operation.

This overcurrent can lead to excessive generation of heat, and risk damage to equipment. Therefore, the control board cuts out power to the system.

Overcurrent can be detected from an excessive drag on the system; this may be from an internal source, such as motor or transmission failure. More commonly an external source, such as changes in layered ice density, various debris in ice (litter, twigs, etc.) Poor condition of blades, or loose blades is the most common reason seen for an overcurrent being detected.

This overcurrent flow, requiring the system to work too hard for one reason or another, is most often the blade condition. Even if the blades appear sharp, try a new set. This corrects the detected overcurrent situation **90% of the time.**

BEEP COUNT - 6

Reason: Battery is too cold.

Solution: Run the powerhead with no load (turning the auger but not cutting the ice). This will “warm up” the battery. If the battery is too cold (beep sequence still happens after running powerhead with no load), stop operating and warm up the battery, and then charge the battery.

BEEP COUNT – 7

Reason: Voltage on battery is low.

Solution: Warm battery, and charge.

BEEP COUNT – 13

Reason: Unacceptable high temperature within powerhead.

Solution: Release trigger let rest for 5 minutes, and try again. If it repeats, check blade condition and bolts. If no issue is found, but beep sequence continues, contact authorized warranty service center for diagnosis and repair.

The high temperature can be a result of excessive drag on the system, causing the system to work too hard.

This is similar to an overcurrent. Most common cause is poor blade condition; replace blades.

NO BEEP COUNT:

Issue: Stops randomly, **without one of the above beep(s) sequence(s)** (equipped with warm, fully charged battery).

Diagnosis: The problem is something with, or within, the control board.

Solution: Replace the control board.

It may **seem or act** like it is a poor connection, or an issue with one of the switches to or from the main start/stop button switch. Normally it is an internal control board/PCB issue. Not a switch.

This fault can be an internal failure from excessive exposure to heat caused from use with poor blade condition, physical fault from an impact, corrosion, torn wires, poor connections or other outside influence.

The control board/PCB is sensing a fault. This failure can be an incorrectly-sensed fault inside the control board itself, causing this random stopping issue. After you have eliminated all other possibilities, including replacing the blades, the control board could be sensing this fault, but in error. Replace the control board.