

# SERVICE INFORMATION LETTER

SIL TB17-02  
Revision A  
June 30, 2020

<b>MODEL(S)</b>	TB17
<b>PART NUMBER(S)</b>	6430017-( )
<b>DESCRIPTION</b>	Advanced Lithium-ion Battery
<b>TOPIC</b>	Increase sleep mode threshold
<b>PURPOSE</b>	Serial number incorporation of change

## 1. PLANNING INFORMATION

### A. Effectivity

This service information is applicable to the TB17 Advanced Lithium-ion Battery Series manufactured by Mid-Continent Instrument Co., Inc. (DBA True Blue Power) listed by serial number in **Section 3** of this letter.

### B. Reason

A minor hardware design change has been incorporated into the product that increases the sleep mode threshold from 25mA to 39mA. This supports installations with bus activity in that range while maintaining sleep mode, thus minimizing power consumption from the battery circuits and keeping heaters off.

### C. Description

This information letter is provided to address changes to achieve the higher sleep mode threshold in the model TB17 Series.

The TB17 operates in two modes. Sleep Mode reduces power consumption to conserve battery capacity. When the TB17 is in sleep mode, the internal battery heaters are inactive, communication signals are inactive, and the battery is not charging or discharging. The TB17 will transition to Active Mode when it senses a charging voltage of  $100\text{mV} \pm 30\text{mV}$  greater than the battery voltage or senses an external load greater than 39mA (previously 25mA). When active, the -1 unit will test for these conditions hourly in order to remain active or transition to Sleep Mode. Additionally, for the -2 unit only, grounding the heater enable switch will also transition and keep the battery in Active Mode.

This change does not impact the form, fit, function, or certification basis of the battery.

Other than serial number identification called out below, batteries having the design changes cannot be differentiated from the original version without dismantling and inspecting internal components of the battery.

## 2. ACCOMPLISHMENT INSTRUCTIONS:

- A. This design improvement, as described in Section 1.C, will be implemented by the manufacturer. Products without this change cannot be upgraded in the field. Contact True Blue Power to discuss the possibility of upgrading an existing product by returning it to the factory.
- Batteries upgraded via factory service will be returned to service with their original serial number, but with the letter 'A' appended.

## 3. AFFECTED UNITS

Serials numbers listed below are manufactured (or updated) to include the features identified within this Service Information Letter:

- G20-10001 and all thereafter
- Prior serial numbers with this update installed provided with a suffix "A" (e.g. XYY-ZZZZZA)

Serialization of the product is defined as follows: (per QA-MG-018, Sect. 5.3.1)

### **XYY-ZZZZZ**

X = Single capital letter designating the month according the following table.

A = JAN	D = APR	G = JUL	K = OCT
B = FEB	E = MAY	H = AUG	L = NOV
C = MAR	F = JUN	J = SEP	M = DEC

YY = Two-digit numeric designation for the year of manufacture (EX. 2020 = 20)

ZZZZZ = Five digit numeric designation for the sequential product manufactured within a given month. Each month begins with the first unit manufactured as 10001, with a maximum value of 99999. (Includes all products manufactured by Mid-Continent Instrument Co., Inc.)

EXAMPLE: J20-10047 serial number represents the 47<sup>th</sup> product manufactured in the month of September 2020.