

Service Bulletin

MODEL(S)	TB20, TB30, TB40, TB50, TB60
PART NUMBER(S)	6430020-(), 6430030-(), 6430040-(), 6430050-(), 6431060-()
DESCRIPTION	Advanced Lithium-ion Battery
TOPIC	Software Update Version 1.2.1
PURPOSE	Product and Performance Enhancements
RELEASE DATE	May 01, 2026

APPLICABILITY

This Service Bulletin is applicable to the TBX Series of Advanced Lithium-ion Batteries, part numbers 6430020-(), 6430030-(), 6430040-(), 6430050-() and 6431060-(), manufactured by Mid-Continent Instrument Co., Inc. (dba True Blue Power and Mid-Continent Instruments and Avionics). These updates are to be performed only by authorized personnel per the instructions as listed in this Service Bulletin. Units with this software upgrade and hardware modification are available for sales from the manufacturer.

PURPOSE

TBX software version 1.2.1 represents improvements to product functionality of the TBX Series Advanced Lithium-ion batteries.

EFFECTIVITY: RECOMMENDED

Previously produced and fielded TBX units can be updated to Software Version 1.2.1 but are not required to do so for continued airworthiness.

True Blue Power is recommending that previously produced and fielded TB20, TB30, TB40, TB50 and TB60 units be updated to Software Version 1.2.1 to take advantage of resolutions that improve the function and performance of the product.

Following the release date of the updated software, all general availability of TBX units manufactured by True Blue Power shall be installed with Software Version 1.2.1 or later.

DESCRIPTION

The following list describes the added features, enhancements and resolutions incorporated in Software Version 1.2.1.

ADDED FEATURES - NONE

ENHANCEMENTS

1. Improved transition time from sleep to active mode, reducing wakeup time to a maximum of 60 milliseconds for all battery models
2. Removed conditions that set CBIT Fault and CBIT Fail (ARINC 429 Label 352, Bits 21, 22) that are already reported independently on software version 1.2.0 or prior

RESOLUTIONS

1. Improved timing of heater monitoring to eliminate reporting of erroneous faults in the event log
2. Updated module-to-module current imbalance monitoring introduced in software version 1.2.0 to eliminate erroneous faults
3. Resolved reporting of thermistor sensor fault if sensor is open circuit

ESTIMATED MANPOWER

Software can be downloaded and updated on fielded units in approximately 10 minutes.

WEIGHT AND BALANCE

No change

ELECTRICAL LOAD DATA

No change

CERTIFICATION

This Service Bulletin represents a minor change to the previously approved Technical Standard Order Authorization for the TBX series of Advanced Lithium-ion Batteries. Any changes to software have been completed in accordance with approved developmental and quality processes per the guidelines of RTCA / DO-178C, Software Considerations in Airborne Systems and Equipment Certification.

OTHER PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

The changes associated with this Service Bulletin are associated only with factory-new product provided by True Blue Power and marked accordingly.

To consider whether or not previously fielded product may be eligible for factory refurbishment and

upgrade to include this modification, Please contact True Blue Power.

Contact Information: True Blue Power
9400 E. 34th Street N.
Wichita, KS 67226
(316) 630-0101