

Service Bulletin

MODEL(S)	TB20, TB30, TB40, TB50, TB60
PART NUMBER(S)	6430020-(), 6430030-(), 6430040-(), 6430050-(), 6431060-()
DESCRIPTION	Advanced Lithium-ion Battery
TOPIC	Modification (“MOD”) 2
PURPOSE	TB50 Chassis Update
RELEASE DATE	May 2 nd , 2025

APPLICABILITY

This Service Bulletin is applicable to the TBX Series of Advanced Lithium-ion Batteries, part number 6430050-(), manufactured by Mid-Continent Instrument Co., Inc. (dba True Blue Power). This update is only available for TB50 units (6430050-()) factory built and identified by MOD 2. Part numbers 6430020-(), 6430030-(), 6430040-() and 6431060-() are not affected by this update but may also be marked with MOD 2 on the nameplate .

PURPOSE

This modification (MOD 2) to the TB50 series advanced lithium-ion batteries includes a hardware change providing improved performance in high vibration environments such as rotary wing and similar applications.

EFFECTIVITY: VOLUNTARY

Existing TB50 product previously produced and fielded cannot be upgraded with this MOD 2 change as described without refurbishment from the manufacturer.

Following the release date of this Service Bulletin, all TB50 units marked as MOD 2, including those newly manufactured by True Blue Power and marked as such, shall include the changes described herewith. For consistency throughout the TBX series, TB20, TB30, TB40 and TB60 units may also be marked as MOD 2; however, those units are not affected by this update.

DESCRIPTION

The following list describes the changes incorporated in this TB50 modification.

ENHANCEMENTS

1. Modification has been made to the TB50 interior components to improve performance in a rotary wing environment.

ESTIMATED MANPOWER

None. Not available for field update.

WEIGHT AND BALANCE

Weight has increased by 0.4 lbs (0.2 kg) – from 43.9 lbs (19.9 kg) to 44.3 lbs (20.1 kg). The front-to-rear center of gravity changed from 5.6" to 5.3". The top-to-bottom and side-to-side center of gravity remains unchanged.

ELECTRICAL LOAD DATA

No change

CERTIFICATION

This Service Bulletin represents a minor change to the previously approved Technical Standard Orders Authorization for the TBX series of Advanced Lithium-ion Batteries. With this modification, the TB50 battery has successfully passed RTCA/DO-160G, Section 8, Category U, Curve G vibration levels (for rotary wing).

OTHER PUBLICATIONS AFFECTED

True Blue Power Installation Manual and Operating Instructions, part number 9019999, Revision C or later, includes information associated with this Service Bulletin.

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.

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