

Service Bulletin

MODEL(S)	TB44
PART NUMBER(S)	6430044-()
DESCRIPTION	Advanced Lithium-ion Battery
TOPIC	Modification (“MOD”) 2
PURPOSE	Performance Enhancement
RELEASE DATE	July 12, 2019

APPLICABILITY

This Service Bulletin is applicable to the 6430044-() part numbers manufactured by Mid-Continent Instrument Co., Inc. (dba True Blue Power and Mid-Continent Instruments and Avionics). Units with this modification are available for sale from the manufacturer.

PURPOSE

The TB44 MOD 2 hardware update represents a continuous improvement to the product design that addresses batteries that accumulate recorded activity when not in use. With this update, the diagnostics log properly records events as expected and eliminates nuisance entries.

EFFECTIVITY

All TB44 units manufactured and marked with MOD 2 shall comply with the hardware update associated with this Service Bulletin. MOD 2 changes are not required for continued airworthiness.

Existing TB44 units prior to MOD 2 cannot be upgraded in the field. However, contact True Blue Power to inquire about availability of an update performed by the manufacturer.

DESCRIPTION

1. Resolved potential for batteries to experience nuisance entries in the diagnostics log when the CMS records an event for minimal current sensed (~20A) when no load or charge is present.

The existing internal current sensor can erroneously report non-zero current when the battery is not in use (sleep mode) due to the resolution and tolerances of the component. When this occurs, the CMS diagnostics log records an event in stored memory. These additional events reduce the number of valid events captured since the stored log memory can only hold a fixed number of the most recent events.

DESCRIPTION

continued

The hardware update associated with this Service Bulletin and MOD 2 replaces the existing Hall Effect current sensor with a current shunt voltage amplifier that produces a stable and accurate measurement of the actual current consumed or provided, including when the current is zero.

ESTIMATED MANPOWER

None. Not available for field update.

WEIGHT AND BALANCE

No change

ELECTRICAL LOAD DATA

No change

CERTIFICATION

This Service Bulletin represents a minor change and thus maintains all aspects and qualification basis of the previously approved Technical Standard Order Authorization for the TB44 series.

OTHER PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

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

To consider whether previously fielded product may be eligible for factory modification, please contact True Blue Power.

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