

Service Bulletin

MODEL(S)	TFC4000
PART NUMBER(S)	6434000-()
DESCRIPTION	Frequency Converter
TOPIC	Hardware Modification
PURPOSE	Increased Reliability
RELEASE DATE	Dec 15, 2023

APPLICABILITY

This Service Bulletin is applicable to the TFC4000 Frequency Converter, part number series 6434000-() 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.

As the modification applies to the series, all TFC4000 units will be marked with MOD 1 on the nameplate; however, the changes associated with this Service Bulletin only apply to the currently available configuration: part number 6434000-1.

PURPOSE

The TFC4000 converter, part number series 6434000-() has implemented a minor hardware assembly change to improve field reliability by reducing the chance of a failure that results in a short-circuit of the input power, activating an upstream circuit-breaker and disabling power to affected 60Hz equipment in the cabin.

EFFECTIVITY

True Blue Power is recommending that all TFC4000 units in the field be updated to MOD 1 at the earliest convenience of regular aircraft maintenance.

TFC4000 units in the field do not require this modification to maintain continued airworthiness.

DESCRIPTION

The following list describes the changes incorporated in this TFC4000 modification.

RESOLUTIONS

1. Added insulation material to high-voltage nodes to improve robustness to moist environments.
2. Added process to ensure proper trimming of critical component leads.

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 to the design and/or manufacture of the product in accordance with 14 CFR § 21.619. The Technical Standard Order Authorization for the TFC4000 Frequency Converter remains in effect.

OTHER PUBLICATIONS AFFECTED

None.

ACCOMPLISHMENT INSTRUCTIONS

The action required by this Service Bulletin cannot be performed in the field and must be returned to True Blue Power. Coordinate with your True Blue Power Sales representative for service.

If returning the TFC4000 unit to True Blue Power:

Call True Blue Power sales department for a Return Material Authorization (RMA) at 316-630-0101.

Return address: True Blue Power
9400 E. 34th Street N.
Wichita, KS 67226.