

Service Bulletin

MODEL(S)	MD23
PART NUMBER(S)	6420023-()
DESCRIPTION	FLEX Custom Function Display
TOPIC	Software Version 1.1.2
PURPOSE	Product and Performance Enhancements
RELEASE DATE	January 5, 2024

APPLICABILITY

This Service Bulletin is applicable to the MD23 FLEX Custom Function Display, part number series 6420023-() manufactured by Mid-Continent Instrument Co., Inc. (dba 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 are available for sale from the manufacturer.

PURPOSE

The MD23 software version 1.1.2 represents improvements to product functionality.

EFFECTIVITY

MD23 FLEX units in the field can be updated to Software Version 1.1.2 but are not required to do so for continued airworthiness.

Mid-Continent Instruments and Avionics is recommending that all MD23 units in the field be updated to Software Version 1.1.2 in order to take advantage of added features, enhancements and resolutions that improve the function and performance of the product.

Note: Any MD23 unit currently operating Software Version 1.0.1 or earlier must first be updated to Software Version 1.0.2 prior to installing Software Version 1.1.2.

MD23 FLEX units in the field do not require this software update to maintain continued airworthiness.

Following the release date of the updated software, all MD23 units manufactured or serviced by Mid-Continent Instruments and Avionics shall be installed with Software Version 1.1.2 or later.

DESCRIPTION

The following list describes the added features, enhancements and resolutions incorporated in Software Version 1.1.2. Note that some features, enhancements, and resolutions listed below only apply to the product hardware versions that support the feature referenced.

ENHANCEMENTS

1. Improved artificial-horizon function for the 6420023-3 and -23 versions during certain high-performance maneuvers.
2. Improved robustness to potential errors during software updates.

RESOLUTIONS

1. Reduced screen flicker occasionally observed in certain CIDs.
2. Implemented proper error handling of potentially corrupted user settings.

ESTIMATED MANPOWER

Software can be 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 Orders Authorization for the MD23 FLEX. Any changes to software have been completed in accordance with approved developmental and quality processes per the guidelines of RTCA document DO-178C.

OTHER PUBLICATIONS AFFECTED

Mid-Continent Instruments and Avionics Installation Manual and Operating Instructions, part number 9019161, Revision C or later, is applicable and current with respect to this Service Bulletin.

ACCOMPLISHMENT INSTRUCTIONS

The updates are to be performed only by authorized personnel per the instructions as listed in this Service Bulletin. Units with this software upgrade are available for sale from the manufacturer.

All fielded units with previous software versions can be updated with Software Version 1.1.2.

Note: Any MD23 unit currently operating Software Version 1.0.1 or earlier must first be updated to Software Version 1.0.2 prior to installing Software Version 1.1.2.

The unit software can be updated by returning the unit to Mid-Continent Instruments and Avionics or by performing the instructions as listed in this section.

If returning the MD23 unit to Mid-Continent Instruments and Avionics:

Call Mid-Continent Instruments and Avionics sales department for a Return Material Authorization (RMA) at 316-630-0101.

Return address: Mid-Continent Instruments and Avionics
 9400 E. 34th Street N.
 Wichita, KS 67226

If performing this update in the field:

Follow the Instructions for Continued Airworthiness (ICA) for Software Updates as provided in Section 5.1 of the Mid-Continent Instruments and Avionics Installation Manual and Operating Instructions, part number 9019161.