

National Transportation Safety Board

Office of Research and Engineering

Washington, DC 20594



CEN24LA119

MULTIPLE ELECTRONIC DEVICES

Specialist's Factual Report

June 3, 2024

A. ACCIDENT SUMMARY

Location: Sextonville, Wisconsin
Date: February 22, 2024
Time: 1802 central standard time (CST)
Aircraft: Zenith STOL CH750, N750WW

B. MULTIPLE ELECTRONIC DEVICES SPECIALIST

Specialist: W. Deven Chen
Electrical Engineer – Recorder Specialist
National Transportation Safety Board (NTSB)

C. DETAILS OF THE INVESTIGATION

A recorder group was not convened. The NTSB Vehicle Recorder Division received the following electronic devices:

Manufacturer/Model:	MGL Stratomaster Vega TC-4
Serial Number:	1802779
Manufacturer/Model:	MGL Stratomaster Vega AHRS-1/MAG-1
Serial Number:	1804409
Manufacturer/Model:	MGL Blaze AHR2-2/MAG-2
Serial Number:	1802885

1.0 Devices Description

The three cockpit panel instrument devices received are called “singles” by the manufacturer – MGL Avionics. The Vega family of singles have 2 and ¼-inches color displays, and the Blaze family of singles have 3 and 1/8-inches displays. Each of those single instruments can display one or two parameters, including artificial horizon reference system (AHRS), magnetic heading (MAG), altitude, vertical speed, air speed, engine RPM, engine cylinder temperature (TC), oil pressure and temperature, manifold pressure, fuel flow, circuitry bus current and voltage. The singles do not record data themselves, but they can be connected to a logger (MGL LOG-1/LOG-2), which would store the parameter data on an external SD card.

1.1 Devices Condition and Data Recovery

Figures 1 to 3 show the condition of the three MGL singles as received by the Vehicle Recorder Division. The devices were in good condition and powered on normally, however, it was confirmed by the manufacturer that in the absence of the MGL logger, those devices do not record data. Thus, no data pertinent to the investigation were recovered from the devices. The IIC (investigator-in-charge)

checked and confirmed that there was not a logger (MGL LOG-1/LOG-2) installed on the accident aircraft.



Figure 1. Front and back view of the MGL Stratomaster Vega TC-4 as received.



Figure 2. Front and back view of the MGL Stratomaster Vega AHRS-1/MAG-1 as received.



Figure 3. Front and back view of the MGL Blaze AHRS-2/MAG-2 as received.

Submitted by:

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