

NATIONAL TRANSPORTATION SAFETY BOARD
Vehicle Recorder Division
Washington, D.C. 20594

September 21, 2018

Cockpit Displays - Flight Data Recorder

Specialist's Factual Report
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1. EVENT SUMMARY

Location: Klamath Falls, Oregon
Date: October 01, 2017
Aircraft: Cirrus SR22
Registration: N6083D
Operator: Private
NTSB Number: WPR18FA001

On October 1, 2017, about 1043 pacific daylight time, a Cirrus Design Corp SR22, N6083D, was destroyed after impacting terrain while maneuvering at a low altitude in a remote mountainous area about 24 nautical miles west-northwest of Klamath Falls, Oregon. The private pilot, and the sole passenger received fatal injuries. The airplane was registered to Cascade Forestry Inc., Gold Hill, Oregon. Instrument meteorological conditions were reported in the area at the time of the accident. The personal cross-country flight was being operated in accordance with 14 *Code of Federal Regulations* Part 91, and a flight plan was not filed. The flight departed Crater Lake-Klamath Regional Airport (LMT), Klamath Falls, Oregon, at about 1030 PDT, with the destination being Rouge Valley International-Medford Airport (MFR), Medford, Oregon.

2. FLIGHT DATA RECORDER GROUP

A flight data recorder (FDR) group was not convened.

2.1. Avidyne MFD (CF Card Only) Description

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received the a Compact Flash (CF) memory card from the following electronic device:

Recorder Manufacturer/Model: **Avidyne MFD**

2.2. Avidyne Multi-Function Display (MFD) Description

The MFD unit displays the pilot checklist, terrain/map information, approach chart information and other aircraft/operational information depending on the specific configuration and options that are installed. One of the options available is a display of comprehensive engine monitoring and performance data.

Each MFD contains a CF memory card located in a slot on the side of the unit. This memory card contains all the software that the MFD needs to operate. Additionally, this card contains

all the checklists, approach charts, and map information that the unit uses to generate the various cockpit displays.

During operation, the MFD display receives information from several other units that are installed on the aircraft. Specifically, the MFD receives GPS position, time and track data from the aircraft's GPS receiver. The MFD may also receive information from the aircraft concerning altitude, engine and electrical system parameters, and outside air temperature. This data is also stored on the unit's CF memory card.

The MFD generates new data files for each MFD power-on cycle. The oldest file is dropped and replaced by a new recording once the storage limit has been reached. MFD data are sampled every six seconds and recorded to memory once every minute. If an interruption of power occurs during the minute between MFD memory write cycles, data sampled during that portion of a minute are not recorded.

2.2.1. MFD Data Recovery

The CF memory card was damaged in the accident and the data could not be downloaded. The following Figures 1, 2, and 3 show the MFD that was damaged in the accident.

2.2.2. MFD Data Description

Due to the damage of the accident, no data could be recovered.

Figure 1: CF memory card side view

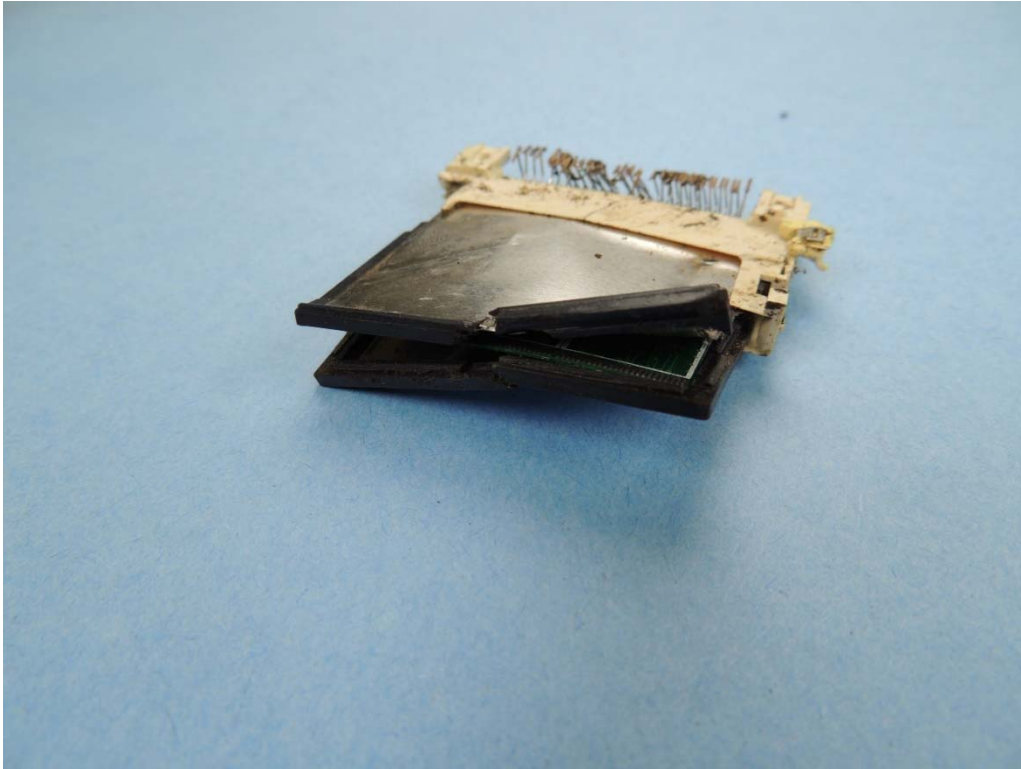


Figure 2: CF memory card top view



Figure 3: CF memory card back view

