

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division
Washington, D.C. 20594

February 19, 2021

Personal Electronic Device

Specialist's Factual Report By Gerald Kawamoto

1. EVENT SUMMARY

Location: Dunn County, North Dakota
Date: November 8, 2020
Aircraft: Piper PA-22-135
Registration: N3606A
Operator: Private
NTSB Number: CEN21LA044

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following personal electronic device (PED):

Device Manufacturer/Model:	Apple iPad Mini 5
Serial Number:	DMPCN09RLMVK

3.1. Device Description

PEDs are a category of devices comprised primarily of portable computing devices and mobile phones. Portable computing devices are typically capable of internet access, email, messaging services, and can run user-installed applications to perform specific tasks. PED user and system data are typically stored on non-volatile memory¹ and can be accessed through manufacturer-provided interfaces.

3.2. Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, an external examination revealed the device had sustained severe impact damage, as shown in Figure 1. The logic board was removed, as shown in Figure 2, and the damage sustained to the board rendered it inoperable, thus no data were recovered.

¹ Non-volatile memory is semiconductor memory that does not require external power for data retention.

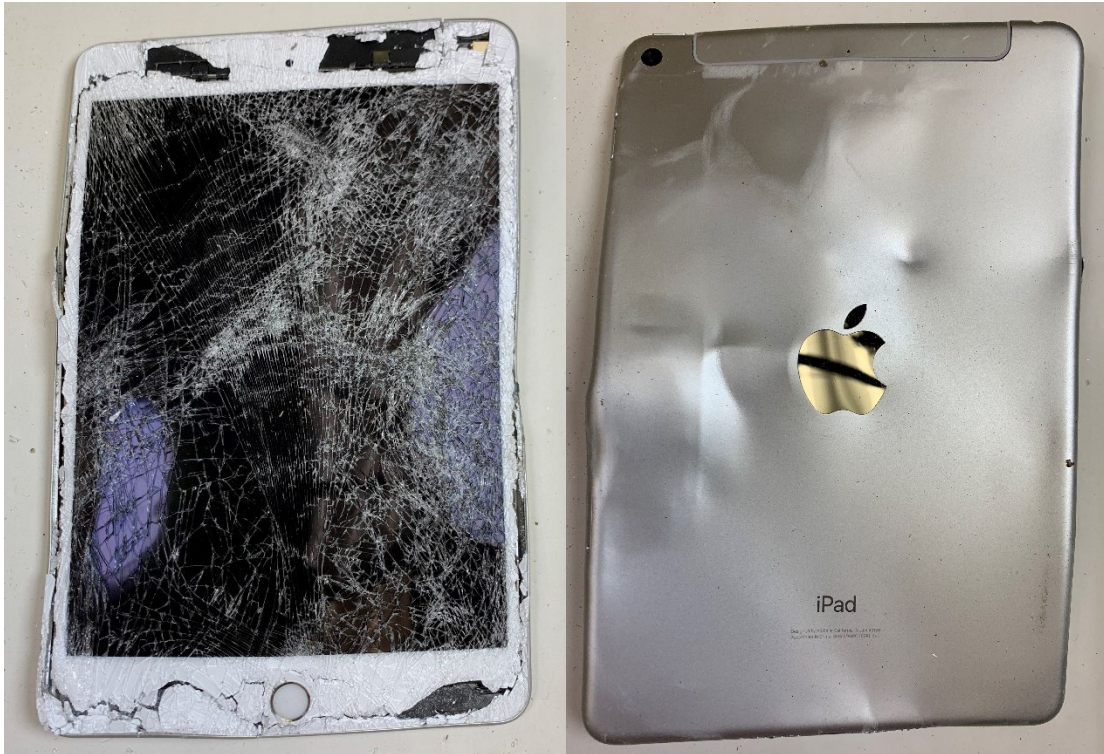


Figure 1. Front and back of iPad as received.

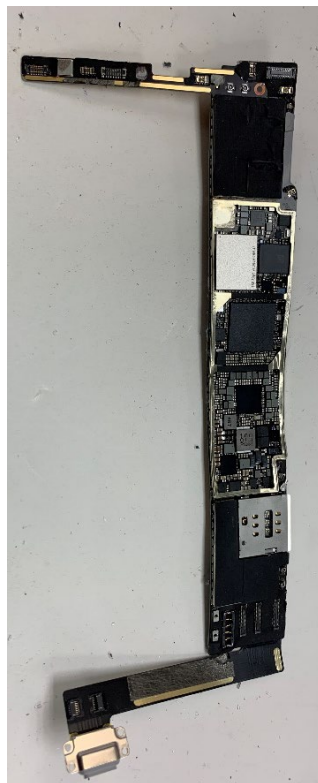


Figure 2. Damaged logic board.