



MEMORANDUM

Daniel P. Boggs
Air Safety Investigator
National Transportation Safety Board
Office of Aviation Safety - Eastern Region

Per your request,

I examined N6978W, Piper PA-28-140, on 3/2/21. The engine remained attached to its mount and exhibited impact and thermal damage, and all accessories were destroyed. The mixture and throttle cables remained attached to their respective carburetor attach points. The carburetor was partially consumed by fire. The spark plugs were removed, and engine was rotated by the propeller. Thumb compression was established to all cylinders and the rocker arms were observed to be moving. Drive train continuity was verified through the engine to the gears at the rear of the engine. No mechanical anomalies were noted with the engine.

The airframe was consumed by post-impact fire. The upper portion of the carburetor along with the throttle valve remained attached to the engine. The carburetor bowl, floats, fuel hose and fuel inlet screen were fire destroyed. The throttle and mixture control cables remained attached to the carburetor throttle and mixture control arms. The engine driven fuel pump was fire destroyed. The fuel selector was located in the debris and noted to be in the off position which was confirmed during field test with low pressure air. Thermal damage of the fuel selector valve precluded movement of the selector's control lever.

Dan Boggs
Air Safety Investigator
NTSB