



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety

June 1, 2017

MAGNETO EXAMINATION

CEN17LA015

A. ACCIDENT EXAM

Location: Select Aircraft Services, (KLNC) Lancaster, Texas
Date: June 1, 2017
Aircraft: N/A
NTSB IIC: Jennifer Rodi

B. EXAMINATION PARTICIPANTS:

Craig Hatch
Air Safety Investigator
National Transportation Safety Board
4760 Oakland St., Suite 500
Denver, CO 80239

Aaron Williams
Select Aircraft Service
Lancaster, TX

C. SUMMARY

Examination of the magneto was conducted on June 1, 2017 at the facilities of Select Aircraft Services. The magneto had been previously removed from the engine/airframe and was shipped with its wire harness.

The wire harness was reconnected to the magneto, the wire terminals were noted as being long; however, the terminal cover was screwed back in place. The magneto was then placed in the test machine, and brought to operating speed. Each of the four-ignition leads produced “spark” however, at times the spark would skip or miss intermittently.

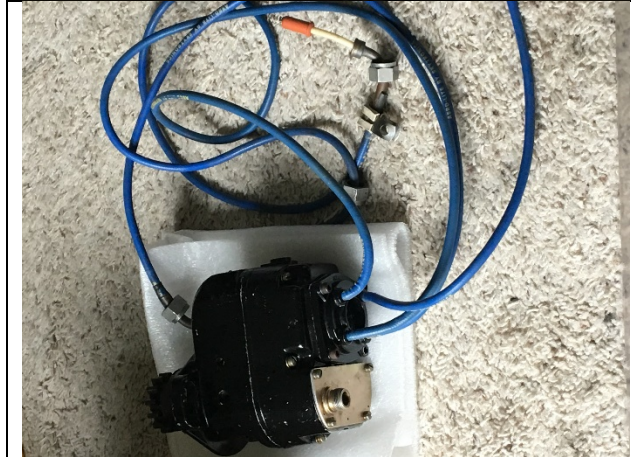
The magneto was removed from the test machine and the access plate removed to allow access to the points and capacitor. Electrical connections appeared tight; a visual inspection of the points noted that they were greyish in color. The technician noted that this is consistent with the capacitor failing. He also stated that the capacitor might test good, however, it could also fail once the magneto (engine) got hot during normal engine operation.

D. DETAILS OF THE INVESTIGATION

1.1 Exam Photos



Magneto Shipment



Magneto and wire harness



Magneto wire harness, connected to test machine



Inside magneto: note greyish coloring on points