



## MEMORANDUM OF RECORD

Woodward Governor Examinations

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**NTSB Accident Number: ERA12FA120, Nashville, Pennsylvania**

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On June 21, 2012, the two Woodward propeller governors were examined under NTSB oversight, provided by Mr. Howard Plagens. According to Mr. Plagens' notes:

Attendees: Howard Plagens, NTSB; Henry Soderlund, Cessna; Jay Eller, Honeywell; Steve Krugler, Woodward. Took photographs and completed visual inspections.

### Left

PN 210739  
SN 1443345

Performed the As Received Constant Speed Prop Governor Test Report reference only 8210-264 (897711-4). Unit was within parameters of the test specifications.

### Right

PN 210739  
SN 1434485

Base and actuator housing cracked so the "As Received" functional test could not be performed. Unit was disassembled and the following were found:

Burrs on bottom of drive gear  
Flyweights were OK  
Relief valve was OK

Separated actuator from base.  
Placed actuator on test stand.  
Pressurized unit.  
Piston moved 0.055 inches outward (away from the body)

No electrical continuity to the coil. Cut wires at the header. Established continuity for cut wiring harness. Cut wires between the header and the coil. Connected leads between the header and the coil, and the servo valve operated as expected. X-ray of wires was inconclusive. Inspected the end of the wires under a microscope. The cut end of the green wire exhibited damage not consistent with being cut.

Paul R. Cox  
Senior Air Safety Investigator