

N3886V

Findings Provided By Mechanic Matt Cropsey 10/5/2019

1. Verified Fuel system vent was unobstructed
2. Position of Quadrant controls as follows:
 1. Throttle, "Idle" position
 2. Carb Heat, "Off"
 3. Mixture, No manual control, found wired full rich at carburetor
3. Continuity of Quadrant controls
 1. Found Throttle control to be bent in cockpit, but hooked up to carb as it should be
 2. Found Carb Heat to be "frozen" in off position, investigation revealed it was attached as required to the airbox, but due to impact damage the door was jammed in the airbox.
 3. Mixture, N/A
4. Fuel Selector was found in the "Off" position
5. Drained Fuel Strainer, found to be full of fuel, approx. 2 oz., removed screen, found to be clean.
6. Removed Carb from aircraft and removed top, found slight amount of debris in bottom of bowl, found finger screen mostly clean with the exception of a piece of trash, see pic, found throttle body to be clear. Carb bowl was full of fuel.
7. Removed top spark plugs and found all plugs to exhibit signs of a rich fuel mixture
8. Because the carb was broken just above the throttle body at the intake the aircraft could not be run.
9. Non Engine Run Items as follows:
 1. Verified air induction system was free from obstructions
 2. Verified Exhaust system was free from obstructions
 3. Placed fuel selector valve in both "Left" and "Right" positions and found fuel to be flowing to engine in both positions
 4. Complied with compression check of engine as follows
 1. #1 75/80
 2. #2 58/80
 3. #3 77/80
 4. #4 76/80
 5. Borescoped all cylinders, found normal wear on cylinder walls, found all valves to be normal except #2 exhaust valve exhibited some discoloration of the exhaust valve
 6. Performed timing check of both right and left magnetos
 1. RH-20 degrees
 2. LH-27.5 degrees
 7. Removed carb inlet screen and found to be mostly clean.
 8. Complied with crankshaft dial out, found to be .002
 9. Removed the following spark plugs
 1. #1 cyl Top Champion REM40E, Bottom Tempest REM40E
 2. #2 cyl Top Champion REM40E, Bottom Tempest REM40E
 3. #3 cyl Top Tempest REM40E, Bottom Tempest REM40E
 4. #4 cyl Top Champion REM40E, Bottom Tempest REM40E
10. Found hole in #2 Exhaust pipe, observed exhaust soot in surrounding area