TEST SPECIFICATION - AIR BOX LIMITS PRECISION AIRMOTIVE LLC - MARYSVILLE, WASHINGTON

11737-08

SERIAL NUMBER: **ENGINEERING SPECIFICATION: PES-4500** MODEL: RSA-5AD1 INSTALLATION PARTS LIST: 12524450-9 PMIRE 115-06-10 OPERATOR: BASIC PARTS LISTS: 2524476 CUSTOMER TEST SPEC: 13135-E INTERNAL CHANGE: 42 CUSTOMER: TEXTRON LYCOMING AIRFLOW: STANDARD (29.92"Hg @ 59°F) FUEL: PES-2010 or PES-2150 PSI @ 71-640F FUEL TEMP. AIR BOX NUMBER: BAROMETRIC PRESSURE TEST POINT NUMBER 9 1 2 3 4 5 6 7 8 10 11 AIRFLOW (LBS/HR) 0 0 100 100 A/R* 400 500 1100 1100 1400 0 CARB LOSS ("Hg) W/O W/O A/R* W/O W/O W/O W/O 15.6 15.6 15.6 W/O **FUEL INLET PRESS** 20 ± 1 20 ± 1 20 ± 1 45 ± 5 20 ± 1 20 ± 1 400 MIXTURE CONTROL RICH ICO. RICH RICH RICH RICH RICH RICH RICH RICH **FROM** RICH **FLOWMETER LIMITS** MINIMUM 22.0 0.0 9.5 ± 0.5 OBS 40.0 85.7 112.0 ± 5.0 *CLOSE THROTTLE TO 6.0 OBSERVED (LBS/HR) 0.0 76,0 11.0 32.0 41.8 91.5 1160 LBS/HR FUEL MAXIMUM 28.0 0.5 10.5 MAX FLOW MAX 42.7 91.2 115.0 CHANGE CHANGE FROM FROM **METERING SUCTION** TP 3 TP 1 **AVERAGE VALUE** 2.0 3.0 15.8 26.2 3.0 OBSERVED ("H2O) 518 247 MAX **METERING HEAD** +5.0 **AVERAGE VALUE** (TP 3) **OBS** 9.0 44.3 71.0 **OBSERVED** 9,0 39 2.9 30 74 ("STODDARD) PREFLOW (LBS/HR) EFFORT SPRING HEAD SPRING REGULATOR HEAD SPRING SHIMS 8 MIN / 18 MAX COLOR COLOR **SETTINGS** (NUMBER) NULL **OUTER NUT** INNER NUT EXTERNAL LEAKAGE (TURNS OUT) TURNS OUT NONE PERMITTED **TURNS OUT**



INCIDENT INVESTIGATION REPORT

Component Inspection and Flow Check - RSA Fuel Injection

PAM Work Order Number:	Investigation Date: 5-6-10
Aircraft Type: Piper PA-28R-200	Aircraft Registration #: N4837T
Engine Model Number: 10-360	
Incident Location: Wendo	over, NV PAM File Number: 082609
Component Type: Servo	
Model: RSA-5AD1	
Parts List Number: 2524450-9	
Serial Number: 39040	Also on yellow PA data tag: "I.C 39T"
Location:	
PA	
Attendees:	
Tom Little – NTSB Pete Nielson - PA	
I) External Condition:	
1) Throttle Rotation?	
OK	
2) Mixture Control Rotation?	
OK	
3) Fittings/Levers:	
OK	
4) Throttle Body/Regulator Body:	
OK	

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INCIDENT INVESTIGATION REPORT

Component Inspection and Flow Check - RSA Fuel Injection

PAM Work Order Number:	Investigation Date: 5-6-10	
Aircraft Type:Piper PA-28R-200	Aircraft Registration #: N4837T	
Engine Model Number: IO-360	Incident Date: 8-26-09	
Incident Location: Wendover, NV	PAM File Number: 082609	
5) Letters on Coilloc Seal:		
No seal present or safety wire through the restyle gasket was installed.	egulator plug. Regulator plug was tight and older	
6) Additional Observations:		
Non-factory style safety wire on regulator.		

II) Flow Test Results:

See attached flow sheet.

III) Tear down Results: No teardown performed due to acceptable flow test.

1) Fuel Inlet Screen:

OK, clear.

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