

# **Airframe Logbook**

**Lancair Legacy**

**N121J**

**Starting Date: 1 May 2004**

Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed
1 May 2004	0	I certify that this aircraft has been inspected on 1 <sup>st</sup> of May, 2004 and found to be in a condition for safe operation.	[Redacted]
5-1-04	0	I HAVE INSPECTED THIS AIRCRAFT AND FILE THAT IT MEETS THE REQUIREMENTS OF THE CERTIFICATE REQUEST AND HAVE ISSUED A SPECIAL AIRWORTHINESS CERTIFICATE FOR TO OPERATE AMBUSH-BUILD AIRCRAFT DATED 5-1-04	[Redacted]
5-11-04	1.5	FIRST FLIGHTS CONTROL CHECKS & RESPONSE NORMAL. ENGINE TEMPS W/I NORMAL OPERATING RANGE. AIRSPEED RANGE FROM 70-180 KIAS CHECKED NORMAL. FLAPS OPERATIONAL CHECK 10° @ 170 KNOTS, FULL FLAPS CHECK 120 KIAS through 80 KIAS. AIRCRAFT CHECKED FROM .5g through 3.0g LOADS FOUND NORMAL. GEAR RETRACTED NORMAL & NORMAL EXTENSION @ 140 KIAS.	[Redacted]
5-12-04	2.0 today 3.5 total	SPEED RANGE 70-250 KIAS, checked normal TRIMMED A/C IN ALL SPEED RANGES 0 thru 4g's LOADED NORMAL OPS.	[Redacted]
8 July '04	11.2 TT	Panel changed: EFIS system removed, EIS system removed, all engine sensors removed. Replaced w/ JPI EDM-900 and associated sensors. Electric DG, Mid. Cont. CDI, USI added. Electric AH and airspeed ind. moved to pilot's side. Engine run with cowling removed to check for leaks. OK. O.I. and filter changed. Switch to Exxon Elite 20W-50. Oxygen system leak found and repaired.	[Redacted]
19 July '04	25.1	I certify that the prescribed flight hours have been completed, and that the aircraft is controllable throughout its normal range of speeds and throughout all the maneuvers to be executed; and that the aircraft has no hazardous operating characteristics or design features and is safe for operation.	[Redacted]

Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed
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*Aug 6*  
*2004* *26.8*

FAR 91.411 ALTIMETERS AND ALTITUDE ENCODERS  
The required tests and inspections as marked were performed in accordance with current approved procedures, and the equipment and/or systems complied with all requirements.

✓ PT43. APPX E.L. ALTIMETER TO *20* KFT ON *8/6/04*  
*NA* PT43. APPX E.R. ALTIMETER TO *NA* KFT ON *NA*  
 ✓ PT43 APPX E. ALT. ENCODER TO *20* KFT ON *8/6/04*  
 ✓ PT42. APPX E. (A), STATIC SYSTEM TESTED ON *8/6/04*  
 FOR DETAILS. SEE WO NO *8709* DATED *8/6/04*

SIGNED [Redacted]  
 CERT NO. [Redacted]  
 MCKEE AVIONICS INC., SAN MARCOS, TEXAS  
 CRS-BEKR429K

FAR 91.413 TRANSPONDERS and ALTITUDE REPORTING Systems  
The required tests and inspections as marked were performed in accordance with current approved procedures, and the equipment and/or systems complied with all requirements.

✓ PT43. APPX F. TXP #1 *SL70 R* SN *6064748* ON *8/6/04*  
*NA* PT43. APPX F. TXP #2 *NA* SN *NA* ON *NA*  
 ✓ PT43 APPX E. © INTEGRATED SYSTEM TEST ON *8/6/04*  
 FOR DETAILS. SEE WO NO *08709* DATED *8/6/04*

SIGNED [Redacted]  
 CERT NO. [Redacted]  
 MCKEE AVIONICS INC., SAN MARCOS, TEXAS  
 CRS-BEKR429K

NFR P/N *5934P-3* S/N *433589*  
 TESTED *8/6/04* BY *PH*

CAL ALT	ALT READS	CAL ALT	ALT READS
-1000	-1000	14000	14000
0	0	16000	16000
500	500	18000	18000
1000	1000	20000	20040
2000	2000	25000	
3000	3010	30000	
4000	4020	35000	
6000	6000	40000	
8000	8000	45000	
10000	10,000	50000	
12000	12,000		

*26 Sept* *2004* *40.0* Interior Completed: seat cushions, glove skid, carpets, side panels, baggage compartment headliner, trim ring, carpets. New weight and balance; new W+B work sheets.

*21 Dec* *2004* *64.9* Installed inboard main gear door modification ("Reno mod"), both sides. Jacked plane to check and adjust. Test flight. OK.

*28 Dec* *2004* *65.7* Changed oil & oil filter - Exxon Elite

[Redacted Signature]

[Redacted Signature]

[Redacted Signature]

Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed																																																
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Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed
7-10-05	82.5	I certify that this aircraft has been inspected in accordance with an annual condition inspection and was found to be in an airworthy condition.	[Redacted]
<p>MAKE: Lancair MODEL: Legacy S/N: L2K 232 REG. NO: 121J WORK ORDER: 2394-10-2005</p> <p><b>Top Gun Aviation, Inc.</b> 6100 S. Lindbergh St Stockton, CA 95206 Phone: 209-983-8082</p> <p>DATE: 10/31/2005 A/C TSN: 130 TACH:</p> <p><b>Airframe Entries</b> (1) Installed new Sealed Battery P/N# RG-35-AXC , SN# 40104001.... (2) Fabricated APU plug mount, Fabricated APU access door, installed APU plug below floor of cargo compartment , installed APU access door in floor access panel and installed APU relay to the relay shelf behind aft cabin bulkhead. Function check OK.</p> <p>I certify that this AIRCRAFT is airworthy with respect to the work performed.</p> <p>DATE: 10/31/2005 SIGNED: [Redacted] Work Order: 2394-10-2005 Thomas W. Richard, A&amp;P [Redacted] Printed by EBis 3 (datcomedia.com)</p>			
<p>MAKE: Lancair MODEL: Legacy S/N: L2K 232 REG. NO: 121J WORK ORDER: 2422-11-2005</p> <p><b>Top Gun Aviation, Inc.</b> 6100 S. Lindbergh St Stockton, CA 95206 Phone: 209-983-8082</p> <p>DATE: 11/22/2005 A/C TSN: 130 HOBBS: 0</p> <p><b>Airframe Entries</b> (1) Installed new Hobbs Meter and Hobbs Meter Pressure Switch.... (3) Found blown fuse and replaced and found landing light wires chaffing on strut put spiral wrap on wires to prevent chaffing.... (4) Adjusted Rudder trim to be centered with trim indicator.</p> <p>I certify that this AIRCRAFT is airworthy with respect to the work performed.</p> <p>DATE: 11/22/2005 SIGNED: [Redacted] Work Order: 2422-11-2005 Mark T. Rouch, IA [Redacted] Printed by EBis 3 (datcomedia.com)</p>			
<p>MAKE: Lancair MODEL: Legacy S/N: L2K 232 REG. NO: 121J WORK ORDER: 2435-11-2005</p> <p><b>Top Gun Aviation, Inc.</b> 6100 S. Lindbergh St Stockton, CA 95206 Phone: 209-983-8082</p> <p>DATE: 11/22/2005 A/C TSN: 130 TACH:</p> <p><b>Airframe Entries</b> (1) Installed Warning Display for EDM 900.... (2) Removed and installed new Canopy struts.</p> <p>I certify that this AIRCRAFT is airworthy with respect to the work performed.</p> <p>DATE: 11/22/2005 SIGNED: [Redacted] Work Order: 2435-11-2005 Mark T. Rouch, IA [Redacted] Printed by EBis 3 (datcomedia.com)</p>			
<p>MAKE: Lancair MODEL: Legacy S/N: L2K 232 REG. NO: 121J WORK ORDER: 2456-11-2005</p> <p><b>Top Gun Aviation, Inc.</b> 6100 S. Lindbergh St Stockton, CA 95206 Phone: 209-983-8082</p> <p>DATE: 12/22/2005 A/C TSN: 130 HOBBS: 0</p> <p><b>Airframe Entries</b> (1) Reinstalled EDM 900 after update by Electronics International. Connected Remote Alarm Display. Performed ground runup and ops check. Tested OK.</p> <p>I certify that this AIRCRAFT is airworthy with respect to the work performed.</p> <p>DATE: 12/22/2005 SIGNED: [Redacted] Work Order: 2456-11-2005 Thomas W. Richard, IA [Redacted] Printed by EBis 3 (datcomedia.com)</p>			

Airframe Logbook, Lancair Legacy N121J

N121J

Date	Airframe Hours	Description of Work	Signed
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MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
2798-08-2006

**Top Gun Aviation, Inc.**  
6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 12/21/2006  
A/C TSN: 152.1  
HOBBS: 17.1

**Airframe Entries**

(1) I certify that this AIRCRAFT has been inspected IAW the scope and detail of FAR 43 appendix D and found to be in a safe condition for operation.... (3) Installed push to start button, and disabled start function on magneto switch.... (4) Relocated cabin fresh air eyeball vents to center bottom of instrument panel.... (5) Reinstalled IO-550-N S/N 687922 after repair by Victor Engines see wo# 15926.... (6) Installed new MT propeller model MTV-9-D/183-50a sn: 05203. On Lancair N121J.... (7) Fabricated a secondary canopy latch to hold open canopy while taxiing.... (8) Reattached left canopy hinge, and reinforced both hinges with screws & replaced both lift struts. Shimmed canopy to close flush with fuselage.... (9) Replaced power wire to main flap switch.... (11) Replaced ELT with new AK-450 serial 485128. Batteries due March 2012. CW ELT 12 month check IAW FAR 91.207 (d)(1)(2) (3)(4) OK.... (12) Repaired landing light wires at the left gear and rerouted to avoid the wing on retraction. Replaced landing light fuse.... (13) Replaced hardware in the left main wheel.... (14) Safetied barjo fittings at the fuel selector.... (15) Replaced the right main gear tire, and rotated the left tire on wheel.... (18) Checked security and cleaned fuel vapor return lines under pilot seat and at wheel wells.... (19) Checked security, and cleaned fuel fitting under seat.... (20) Cleaned gascolator, cleared debris out of drain, reinstalled bowl after repair.... (21) Cleaned and lubed all wheel bearings.... (22) Relocated GPS antenna forward on the glareshield.... (23) Fitted and installed new stock baffle kit and all baffle seals and reinstalled stock cowling.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 12/21/2006

SIGNED: [Redacted]

Mark T. Rouch, IA: [Redacted]

Work Order: 2798-08-2006

Printed by EBis 3 (datcomedia.com)

MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
3193-06-2007

**Top Gun Aviation, Inc.**  
6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 10/31/2007  
A/C TSN: 212.3  
HOBBS: 77.3

**Airframe Entries**

(1) Resealed main gear actuators, bled system and filled reservoir. Worked gear through six retract cycles. Ops checked OK.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 10/31/2007

SIGNED: [Redacted]

Thomas W. Richardl, IA: [Redacted]

Work Order: 3193-06-2007

Printed by EBis 3 (datcomedia.com)

I certify that the Altimeter, Static System, & Altitude Reporting tests required by FAR 91.411, and the Transponder tests required by FAR 91.413 have been performed IAW FAR 43 App E & F.

Altimeter tested to 20000 Ft. N121J

IAW FAR 43 App. E on 16 JAN 08

Signed [Redacted] Date 16 JAN 08

Northcoast Services crs WR3R955L Time 20.2

MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
3457-01-2008

**Top Gun Aviation, Inc.**  
6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 3/4/2008  
A/C TSN: 225.2  
HOBBS: 90.2

**Airframe Entries**

(1) I certify that this AIRCRAFT has been inspected IAW the scope and detail of FAR 43 appendix D and found to be in a safe condition for operation.... (2) Reinstalled and reset configuration of GNS 530 after WAAS upgrade. Ops checked OK.... (4) Relocated left throttle quadrant up and outboard and added a second lever for the supercharger control.... (5) Adjusted canopy seal pressure cutoff switch.... (8) Old residue from past leakage was cleaned from nose gear actuator. Gear was cycled six times and no further leakage was noted.... (14) CW ELT 12 month check IAW FAR 91.207 (d)(1)(2)(3)(4). Batteries due replacement 3/2012.... (15) Installed Odyssey PS680 12V battery and second master relay below baggage compartment floor just aft of pilots seat. Connected output terminal of #2 master relay to output terminal of #1 master relay. Fabricated and installed a protective cover for #2 battery relay. Installed and placarded a 5A CB switch on right side of instrument panel for #2 master relay. Weight and Balance revised.... (16) Installed new gascolator filter and cup.... (21) IFR cert completed by Northcoast Services. *Checked all AD's thru 08/04*

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 3/4/2008

SIGNED: [Redacted]

Thomas W. Richardl, IA: [Redacted]

Work Order: 3457-01-2008

Printed by EBis 3 (datcomedia.com)

Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed
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MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
2798-08-2006

**Top Gun Aviation, Inc.**

6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 12/21/2006  
A/C TSN: 152.1  
HOBBS: 17.1

**Airframe Entries**

(1) I certify that this AIRCRAFT has been inspected IAW the scope and detail of FAR 43 appendix D and found to be in a safe condition for operation.... (3) Installed push to start button, and disabled start function on magneto switch.... (4) Relocated cabin fresh air eyeball vents to center bottom of instrument panel.... (5) Reinstalled IO-550-N S/N 887922 after repair by Victor Engines see wo# 15926.... (6) Installed new MT propeller model MTV-9-D/183-50a sn: 05203. On Lancair N121J.... (7) Fabricated a secondary canopy latch to hold open canopy while taxiing.... (8) Reattached left canopy hinge, and reinforced both hinges with screws & replaced both lift struts. Shimmed canopy to close flush with fuselage.... (9) Replaced power wire to main flap switch.... (11) Replaced ELT with new AK-450 serial 485128- Batteries due March 2012. CW ELT 12 month check IAW FAR 91.207 (d)(1)(2) (3)(4) OK.... (12) Repaired landing light wires at the left gear and rerouted to avoid the wing on retraction. Replaced landing light fuse.... (13) Replaced hardware in the left main wheel.... (14) Safetied banjo fittings at the fuel selector.... (15) Replaced the right main gear tire, and rotated the left tire on wheel.... (18) Checked security and cleaned fuel vapor return lines under pilot seat and at wheel wells.... (19) Checked security, and cleaned fuel fitting under seat.... (20) Cleaned gascolator, cleared debris out of drain, reinstalled bowl after repair.... (21) Cleaned and lubed all wheel bearings.... (22) Relocated GPS antenna forward on the glareshield.... (23) Fitted and installed new stock baffle kit and all baffle seals and reinstalled stock cowling.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 12/21/2006

SIGNED: [Signature]  
Mark T. Rouch, IA

Work Order: 2798-08-2006

Printed by EBis 3 (datcomedia.com)

MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
3193-06-2007

**Top Gun Aviation, Inc.**

6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 10/31/2007  
A/C TSN: 212.3  
HOBBS: 77.3

**Airframe Entries**

(1) Resealed main gear actuators, bled system and filled reservoir. Worked gear through six retract cycles. Ops checked OK.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 10/31/2007

SIGNED: [Signature]  
Thomas W. Richard, IA

Work Order: 3193-06-2007

Printed by EBis 3 (datcomedia.com)

I certify that the Altimeter, Static System, & Altitude Reporting tests required by FAR 91.411, and the Transponder tests required by FAR 91.413 have been performed IAW FAR 43 App E & F.

Altimeter tested to 20000 Ft N 121J

IAW FAR 43 App E on 16 JAN 08

Signed [Signature] Date 16 JAN 08

Northcoast Services crs VFR3R955L Time 90.2

MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
3457-01-2008

**Top Gun Aviation, Inc.**

6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 3/4/2008  
A/C TSN: 225.2  
HOBBS: 90.2

**Airframe Entries**

(1) I certify that this AIRCRAFT has been inspected IAW the scope and detail of FAR 43 appendix D and found to be in a safe condition for operation.... (2) Reinstalled and reset configuration of GNS 530 after WAAS upgrade. Ops checked OK.... (4) Relocated left throttle quadrant up and outboard and added a second lever for the supercharger control.... (5) Adjusted canopy seal pressure cutoff switch.... (9) Old residue from past leakage was cleaned from nose gear actuator. Gear was cycled six times and no further leakage was noted.... (14) CW ELT 12 month check IAW FAR 91.207 (d)(1)(2)(3)(4). Batteries due replacement 3/2012.... (15) Installed Odyssey PS880 12V battery and second master relay below baggage compartment floor just aft of pilots seat. Connected output terminal of #2 master relay to output terminal of #1 master relay. Fabricated and installed a protective cover for #2 battery relay. Installed and placarded a 5A CB switch on right side of instrument panel for #2 master relay. Weight and Balance revised.... (18) Installed new gascolator filter and cup.... (21) IFR cert completed by Northcoast Services.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 3/4/2008

SIGNED: [Signature]  
Thomas W. Richard, IA

Work Order: 3457-01-2008

Printed by EBis 3 (datcomedia.com)

Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed
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MAKE: Lancair  
MODEL: Legacy  
S/N: L2K 232  
REG. NO: 121J  
WORK ORDER:  
3532-03-2008

**Top Gun Aviation, Inc.**

6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 3/6/2008  
A/C TSN: 229.3  
HOBBS: 94.3

**Airframe Entries**

(1) Installed fittings to connect Tru Trak ADI to the pilot and static system. Set speed warning on ADI to approx 70 indicated.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 3/6/2008

SIGNED: [Signature]  
Thomas W. Richard, IA

Work Order: 3532-03-2008

Printed by EBis 3 (datcomedia.com)

N121J Lancair Legacy S/N L2K 232 Hobbs: 151.3 08/24/08

Removed Cleveland wheels and brakes. Installed Grove Brake assemblies Kit P/N 57-224 in accordance with Grove installation instructions. Serviced and bled brakes as required. Returned to service.

[Signature]  
Richard C. Strand

**Carson Valley Aircraft Services**

2177 Taxiway F, Hanger B-5  
Minden, Nevada 89423

N121J Lancair Legacy S/N L2K 232 Hobbs: 179.1 04/01/09

Performed Annual Condition Inspection per FAR 43, Appendix D. Checked all cable tensions, cleaned and lubed all pulleys and flight control bearings. Checked control travels. Performed landing gear extension and retraction check. Installed new Alternator, main voltage regulator and RG35S main battery. Replaced RT fuel cap with new. Performed ops check of ELT system IAW FAR 91.207 (d). Reinstalled all panels and fairings removed to facilitate inspection. I certify that this experimental aircraft has been inspected IAW an Annual Condition Inspection and was found to be in airworthy condition.

[Signature]  
Richard C. Strand

**Carson Valley Aircraft Services**

2177 Taxiway F, Hanger B-5  
Minden, Nevada 89423

N121J Lancair Legacy Hobbs: 184.3 TTAF: 319.3 07/20/09

Engine removed and reinstalled following overhaul by Victor Aviation Services. See engine logbook for details. Replaced left and right brake linings with new. Rebuilt and bled Left brake caliper. Performed fiberglass repair to LH wingtip as required. Aircraft approved for return to service.

[Signature]  
Richard C. Strand

**Carson Valley Aircraft Services**

2177 Taxiway F, Hanger B-5  
Minden, Nevada 89423

N121J Lancair Legacy Hobbs: 214.1 01/08/10

Replaced left main tire and inner-tube with new 5.00x5 6 ply flight custom III tire and leakguard inner-tube. Replaced left and right brake linings with new, 4ea. 66-111. Serviced brake reservoir as required.

[Signature]  
Richard C. Strand

**Carson Valley Aircraft Services**

2177 Taxiway F, Hanger B-5  
Minden, Nevada 89423

Airframe Logbook, Lancair Legacy N121J

Date	Airframe Hours	Description of Work	Signed
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N121J                      Hobbs: 219.6                      TTAF: 354.6                      12/02/10

Removed wings for lower skin damage. Wing lower skin performed by Lancair Factory 6/18/10, order # 4572. Reinstalled wings on aircraft per Lancair assembly instructions. Serviced with fuel and leak checked good. Removed rudder and elevator assemblies for repainting. Reinstalled rudder and elevator assemblies following re-paint. Checked control surface balance at 100% per Lancair technical support instructions. Replaced all plastic brake lines with Aeroquip 153-3 steel braided brake hose and fittings. Pressure checked all hose assemblies @ 800 psi. Serviced and bled left and right brake systems as required. Performed landing gear extension and retraction test through several cycles. Performed ops check of ELT system IAW FAR 91.207(d). I certify that this experimental aircraft has been inspected in accordance with an Annual Condition and was found to be in airworthy condition.

Richard C. Strand AP [Redacted]

**Carson Valley Aircraft Services**  
 2177 Taxiway F, Hanger B-5  
 Minden, Nevada 89423

4/25/11 233.1 Removed instrument panel equipment as follows:  
 Flight instrument panel and associated instruments  
 Rt side instrument panel and associated instruments.  
 Fabricated new metal plates for left and right sides. Rearranged radio rack placing portable Garmin dock at top.  
 Installed Advanced Flight Systems AF4500 "s" in left flight panel and AF 2400 "s" in right flight panel. Installed existing Airspeed, Altimeter and Horizon in right flight panel as back-up instruments. Replaced all engine sensor wires and sensors. Cleaned up and replaced avionics wiring.  
 Upgraded Trutrak autopilot to vertical format. Installed auto-trim in pitch system.  
 Calibrated fuel system. Performed weight and balance Fw 1704 EWCG 87.3.  
 Reseal engine baffling. Upgraded 530 operating software to current version. Pt evaluation good.

[Redacted] A [Redacted]

5/18/11 Removed ET Fuel Flow transducer model ET-60, s/n 126237. Installed Flouman model 201 Transducer. performed pressure test and leak check. Engine ground ops and leak checks good.

[Redacted] AP [Redacted]