

N53100

Log Book #3

THE  
**adlog**<sup>TM</sup>

AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

N309LL

**AIRFRAME  
MAINTENANCE  
RECORDS**



# AIRFRAME MAINTENANCE RECORDS

Log No. 3

Aircraft Registration No. N53100

Aircraft Mfg. CESSNA Model 177RG Serial No. 1346

Engine Mfg. LYCOMING Model T0-360-A1B6 Serial No. L-AL-28996-51E

Engine Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_

Propeller Mfg. Mc CAULEY Model B2034C 207 Serial No. 781921

Hub Design No. \_\_\_\_\_ Hub Serial No. \_\_\_\_\_

Blade Design No. \_\_\_\_\_ Blade Serial No's. \_\_\_\_\_

Propeller Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_

Hub Design No. \_\_\_\_\_ Hub Serial No. \_\_\_\_\_

Blade Design No. \_\_\_\_\_ Blade Serial No's. \_\_\_\_\_

(All applicable information must be filled in)



**AEROTECH PUBLICATIONS INC.**

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1-800-235-6444  
FAX: (631) 765-9359



1930 Airport Road  
Lawrence, Ks 66044  
(785) 842-0000

**Airframe Log**  
N53100  
Cessna 177RG  
S/N 177RG1346

**November 18, 2008 Tach Time: 2130.0 Hrs. Total Time: 2130.0 Hrs. SPOH: 0.0 Hrs. (11/08)**

**Work Order # 08-5779**

Inspected Aircraft in accordance with Cessna maintenance manual. Inspected control systems, lubricated hinges and bearings. Adjusted flap cable tension. Checked and repacked wheel bearings, checked brake linings and discs. Replaced both left and right master cylinders lower fitting o-ring. Replaced nose landing gear hoses (P/N S2888C4-0150 & S2888-4-0134). Greased landing gear, checked operation and emergency extension. Serviced brake and landing gear reservoir. Checked and cleaned fuel bowl screen. Replaced o-rings (P/N MS29513-111 & 138). Replaced vacuum pump with new AA3215CC. Replaced vacuum regulator filter (PN ARB3-5-1) and central filter (PN D9-18-1). Replaced all firewall forward fluid carrying hoses. Replaced fuel line to pilot sump reservoir from left wing. Replaced ELT with new Artex ME406. Installed remote switch on panel and revised weight and balance. Completed Chadwick Helmuth Propeller Balance in accordance with "The Smooth Propeller" #AW-9511-2 Rev. June 1990. FAA Approved Manual on Propeller Balancing. Completed 337 form. C/W FAR 91.207 by inspection of ELT, battery next due Dec 2013. Checked and serviced aircraft battery. Replaced taxi light switch (P/N TTGC-TA201TW-B). Replaced left wing tip strobe light (P/N 073-0270). Installed customer supplied wing spoiler carry thur cable and adjusted. Replaced both left and right spoiler bellows. Removed propeller and sent to Foster's Propeller Service, Inc. for overhaul. See Foster's work order #6025. Reinstalled propeller with new o-ring. C/W AD 87-20-03R2 by inspection of seat tracks and locking mechanism-found Ok, next inspection due 11/09. I certify this Airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition. All AD's are listed on separate sheets from ATP library dated 7/7/05 and updated from revision dated 11/19/08. Details pertinent to this inspection are on file under work order #08-5779.

Hetrick Air Services, Inc.  
FAA Approved Repair Station #VKDR861X  
*Lloyd A. Hetrick*  
Lloyd A. Hetrick 2859510

**MAKE** *McDawley*  
**SERIAL NO.** *781921*

**MODEL** *B2D34C207*

**THE COMPONENT IDENTIFIED ABOVE WAS REPAIRED/OVERHAULED AND INSPECTED IN ACCORDANCE WITH CURRENT CIVIL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER WORK ORDER NUMBER *6025* DATE *10-31-08***

**SIGNED** *[Signature]* **FOR**

**FOSTER'S PROPELLER SERVICE, INC.**

**CERTIFICATE NO F3PR014N**

**26650 HWY 62 BOYNTON, OK 74422 PH. 918-733-2131**



1930 Airport Road  
Lawrence, Ks 66044  
(785) 842-0000

**Airframe Log**  
N53100  
Cessna 177RG  
S/N 177RG1346

**December 11, 2008 Tach Time: 2132.0 Hrs. Total Time: 2132.0 Hrs. SPOH: 2.0 Hrs. (11/08)**

**Work Order # 08-5812**

Replaced both left and right brake master cylinders o-ring (P/N MS28775-110) and bleed brakes. This Aircraft and/or Component identified was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service. Details pertinent to this repair/inspection are on file at the repair station under WO#08-5812.

Hetrick Air Services, Inc.  
FAA Approved Repair Station #VKDR861X  
*Lloyd A. Hetrick*  
Lloyd A. Hetrick 2859510

**HETRICK**  
**AIR**  
**SERVICES, Inc.**

1930 Airport Road  
Lawrence, Ks 66044  
(785) 842-0000

**Airframe Log**  
N53100  
Cessna 177RG  
S/N 177RG1346

**December 16, 2009**  
**Work Order # 09-6007**

**Tach Time: 2174.74 Hrs. Total Time: 2174.74 Hrs. SPOH: 44.74 Hrs. (11/08)**

Inspected Aircraft in accordance with Cessna maintenance manual. Inspected control systems, lubricated hinges and bearings. Checked and repacked wheel bearings, checked brake linings and discs. Replaced right brake caliper o-ring (P/N MS28775-224) and bleed brake. Greased landing gear, checked operation and emergency extension. Serviced brake and landing gear reservoir. Checked and cleaned fuel bowl screen. Replaced o-rings (P/N MS29513-111 & 138). Replaced vacuum regulator filter (PN ARB3-5-1) and central filter (PN D9-18-1). C/W FAR 91.207 by inspection of ELT, battery next due Dec 2013. Checked and serviced aircraft battery. C/W AD 87-20-03R2 by inspection of seat tracks and locking mechanism-found Ok, next inspection due 12/2010. I certify this Airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition. All AD's are listed on separate sheets from ATP library dated 7/7/05 and updated from revision dated 12/16/09. Details pertinent to this inspection are on file under work order #09-6007.

Hetrick Air Services, Inc.  
FAA Approved Repair Station #VKDR861X  
*Lloyd A. Hetrick*  
Lloyd A. Hetrick 2859510

N53100

Date - October 21, 2010

Kings Avionics, Inc.

Station #TF2R185L

The aircraft and/or component identified was repaired and inspected in accordance with current federal air regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency.

The GNC-300XL is now IFR approved. A copy of the approved Flight Manual Supplement has been added to the POH. The "GPS NOT APPROVED FOR IFR" placard has been removed.

Signature

*Lloyd A. Hetrick*

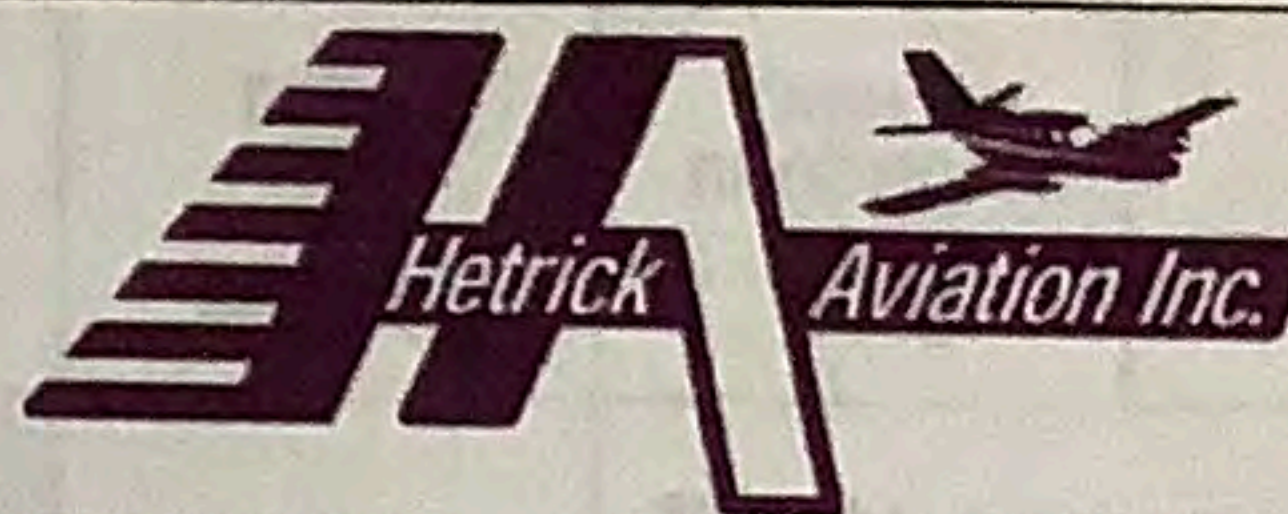
Repairman # 2347550

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DA



785-354-7055  
 Billard Airport  
 Topeka, Ks. 66616  
 R. S. # M12R006L  
 W.O.#11-3327

Airframe Log  
 N53100  
 C-177RG  
 S/N:177RG1346  
 T. T.:2228.6 Hrs.

9-19-2011

Tach: 2228.6

THIS AIRCRAFT HAS BEEN INSP I/A/W AN ANNUAL INSP AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. C/W FAR 91.207 NEW BATT DUE DATE 12-13. REPLACED 5 COWL MOUNTS P.N.J7444-14 . SERVICED LG HYDR RES AND . REPLACED NOSE TIRE , NOSE GEAR DOOR PINS AND RUB STRIP ON AFT DOORS RETRACTOR. REPLACED BRACKET PN 2013007-1 RT LOWER MOUNT . REPLACED VAC FILTERS. C/W AD2011-10-09 BY INSP OF SEATS AND RAILS , REPLACED 2 ROLLERS AND WASHERS AND REPLACED SEVERAL RIVITS AND FASTENERS ON PILOTS RAIL . REPLACED BOTH FUEL CAP ORINGS . RERIGIGED ELEVATOR TRIM I/A/W S.M. .INSTALLED A SMALL PATCH ON TOP LT WING AFT SPEED BRAKES . INSTALLED NEW DOOR SEAL ON PILOTS DOOR . SERVICED AIRCRAFT BATTERY. REMOVED ALT AND HAD CARIS MIDWEST CERT AND REINSTALLED . TEST FLOW OK FOR RETURN TO SERVICE .

*Keith Hetrick*  
 KEITH HETRICK

I certify that Transponder #1 GTX 330#2 installed in this aircraft  
 S.N. #1 8Y11082#2 has been tested and inspected and found to c/w with the requirements of FAR 91.413 and is approved for return to service.  
 C/W FAR 91.217 Data correlation to 16,000  
 Encoder #1 S.N.            #2 S.N.             
 Hetrick Aviation Inc. R.S. # M12R006L. W.O.# 3327  
 Signed *Keith Hetrick* Date 9-19-11 N# 53100

Date 9-19-11 N# 53100 W.O.# 3327  
 I certify that the Altimeter and Static System Test required by FAR 91.411 has been performed.  
 Alt #1 Unit SN M6520 Cert. by CMV Date 9-8-11  
 Alt #2            SN            Cert. by            Date             
 Encode #1            S.N.             
 Encode #2            S.N.             
 Tested to 20,000 . Hetrick Aviation Inc.  
 R.S. M12R006L. Signature *Keith Hetrick*

2012

**Higginsville Avionics Lab**

FAA Certified Repair Station #SK2R164L

Aircraft	N Number	Tach/Hobbs
<b>Cessna 177RG</b>	<b>N309LL</b>	<b>2241.43</b>

Date: 3-23-2012 I certify that the following equipment was installed in this aircraft according to current manufacturers specifications and AC-43.13-1B/2B.  
 Removed Narco DME 190, ARC 300 ADF system, Horizon Instruments P-1000 Tachometer, and UBG-16. Fabricated pilot and copilot's instrument panel out of 2024T3 .063" thickness alclad aluminum. This is a minor alteration. Installed UMA light rings, CI-122 com antenna. Replaced tachometer with serviceable Superior Labs SL1010-55021-13-N00 s/n 0535 set to 2241.4 hours. DG and Horizon overhauled this date. Removed wet compass and installed Precision Aviation PAI-700 vertical card compass. Compass swung this date. Installed EDM 830 temperature / fuel flow system per 337 Form dated 03-23-12 and all necessary equipment and accessories. Computed weight and balance and updated equipment list.

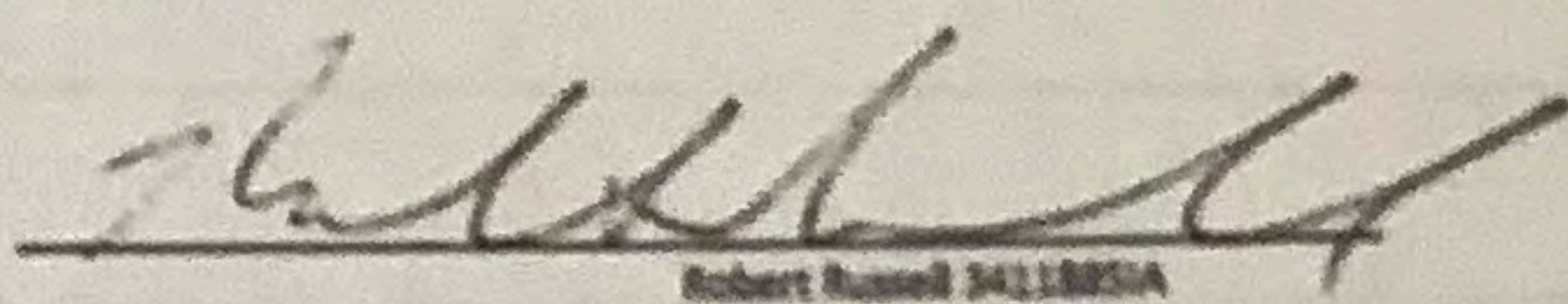
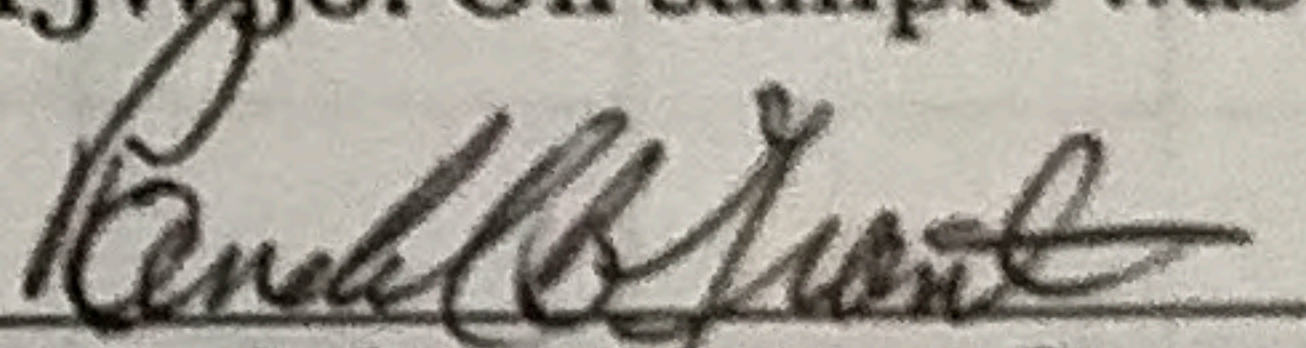
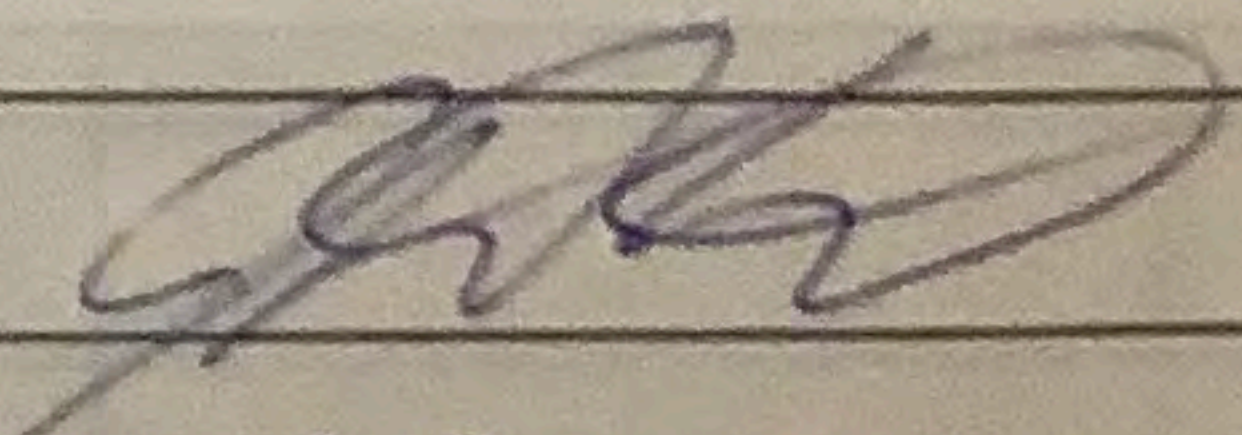
All work was inspected and tested by *Steve S. [Signature]* 2584537  
 Insp. for HAL. FAA Repair Station #SK2R164L. Refer to WO #27985

Valid only when properly inserted in logbook

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			<p>3-27-2012 N309LL tac 2246.7 Airframe W/O 23504                      Remove cowling, reset gear throttle horn and recowl engine.                      Install 6 hilicoil 8-32 for main gear covers and install covers.</p> <p><i>Randal B. Grant</i> Star Aero, Inc. MF2R003L, 11669 Airport Rd.                      Higginsville, Mo. 649037</p>
			<p>5-18-12 Tac 2257 Airframe N309LL W/O 23507</p> <p>Jack aircraft and remove main tires and tubes, clean wheel halves and bearings. Greased bearings with Aero #5. Check bolts and reassemble wheels with new tires and tubes. Check brake pads, clean and lube glide pins, reassemble brakes.</p> <p><i>Randal B. Grant</i> Star Aero, Inc. MF2R003L 11669 Airport Rd. Higginsville,                      Randal B. Grant</p>
			<p>8-22-2012 N309LL Tac 2268.8 Airframe W/O # 23515                      100 hr. inspection completed this date. Remove all inspection plates, covers and seats. Replace Vaccum reg. filter and main vaccum fitler. Remove ELT and check per 91.207d. service brakes with 5606 Hydrolic fluid. Check gear pump fluid. Lube nose and main landing gear. Wheel bearings P/C/W. Retract landing gear 3 times and emergency exrension. Lube all pullys and cable attachment. Check all rod ends and controlls, hinges and bearings. Remove old oil cooler and modify A/C for larger oil cooler, by fire wall forward procedure. Tighten oil line, check for leaks. (SEE 337). C/W AD 2011-10-09 (6-17-11) by visual inspection 4 (1) through (10). AD note 93-05-06 (4-29-93) due at 3428 hr. AD 05-12-06 due at 2458 hr. AD 08-14-07 (8-14-08) C/W by inspection. Tighten alt. belt and safety. Install new bracket element filter.</p> <p>I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under work order 23515 dated 8-22-12.</p> <p><i>Randal B. Grant</i>                      Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037</p>
			<p>8-22-2012 N309LL Tac 2268.8 TSMOH 531.1 Engine</p> <p>8-22-2012 N309LL Tac 2268.8 TSPOH 138.8 Prop W/O # 23515                      100 hr. inspection completed this date. spiner removed. Bolts and safety checked with no hub leaks. Check prop blades for nicks and scraches. I certify that the aircraft has been inspected in accordance with an 100 hr. inspection and was determined to be in an airworthy condition Pertinent details of the repair are on file at this repair station under work order 23515 dated 8-22-12.</p> <p><i>Randal B. Grant</i>                      Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037</p>

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<div style="border: 1px dashed black; padding: 10px;"> <p style="text-align: center;">Aviation Plus LLC 262-656-1260 Aviationplusllc.com</p> <p>12/04/2012 N309LL Tach 2303.8 Replaced pilot's and co-pilot's door seal.</p> <div style="text-align: right;">   <small>Robert Russell 34118851A</small> </div> </div>			
1-22-13	N309LL	Tach 2308.2	<p style="text-align: center;">Engine</p> <p>50 hr. oil &amp; oil filter change. Remove oil filter &amp; replace with new AA48103-2 filter. Torque and safety. Service with 8 qt. + 1 Aero Shell 15W50. Oil sample was taken. Oil filter cut open and checked.</p> <div style="text-align: center;">                       Randal B. Grant, Strar Aero, Inc. MF2R003L, Higginsville, 3Mo. 64037                 </div>
03/26/13	2310.7		<p>Removed and replaced interior plastics, upholstery, insulation and carpet.</p> <p>Replaced interior plastics trim with PMA replacement components provided by Plane Plastics. Removed and replaced windows with PMA replacements provided by LP Aero. See attached parts list and burn certs. Installed STC SA01436SE 3rd Axis kit for Rosen SunVisor System. Installed STC SA2067NM BAS shoulder harness system. 337s were complete and submitted to the FAA records office. Weight and balance computed for addition of STCs.</p> <div style="text-align: right;">                       AIP 31680418 I.A.                 </div>

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DATE

10-1-2013 N309LL Tac 2357.8 Airframe W/O # 23  
 Jack aircraft. Remove co-pilot seat and inspection pannels to trouble  
 shoot nose gear hydraulic system leak. Check retract hose & lines,  
 Replace nose gear actuator up and down hoses. Hoses made by Aero-  
 space Turbine Rotables, part numbers S1236C4-0134 & S1236C4-  
 0150, tested to 3000 psi. replaced per Cessna 177 RG manual and AC  
 43.13-1B change 1 Par 9-30(d1). Bleed system and clean hydraulic  
 residue on bottom of aircraft and in nose wheel well. Remove and clean  
 air vent to cabin top inset lock ring. Remove aircraft from jack and  
 charge battery.

DRK

Pertinent details of the repair are on file at this repair station under  
 work order 23535 dated 10-1-13.

*Randal B Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

1-13-14 N309LL Tac 2387.3 W/O 23541 Airframe  
 Remove ELT battery for Replacement. Replaced new battery per Artex  
 installation instructions for battery pack P/N 452-6499. Checked per  
 Far 91.207(d). Returned to service. Battery due Mar 2021.

*Randal B Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, 3Mo. 64037

6-2-14 N309LL Tac 2413 Airframe  
 Removed and replaced 6 wear washers ( 82-46-101-39) and 6 stud locks  
 ( 0112032) on cowl with new. Replaced 1 cowl lord mount (J-7444-14)  
 with new. Returned to service.

*Randal B Grant*

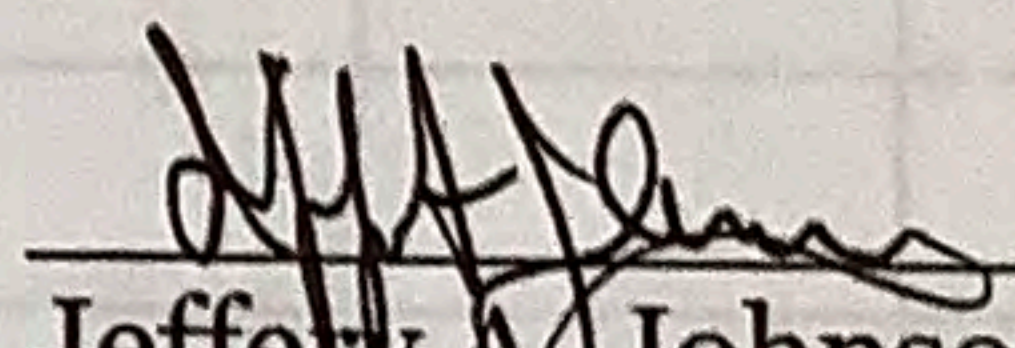
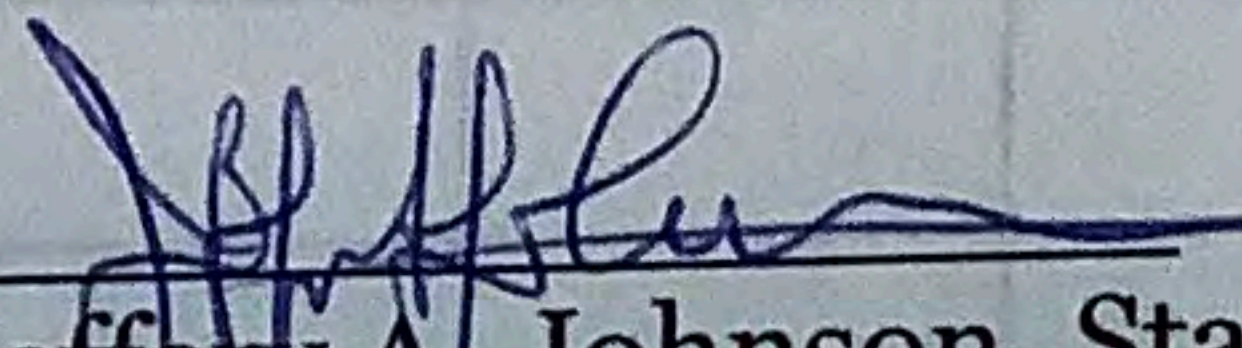
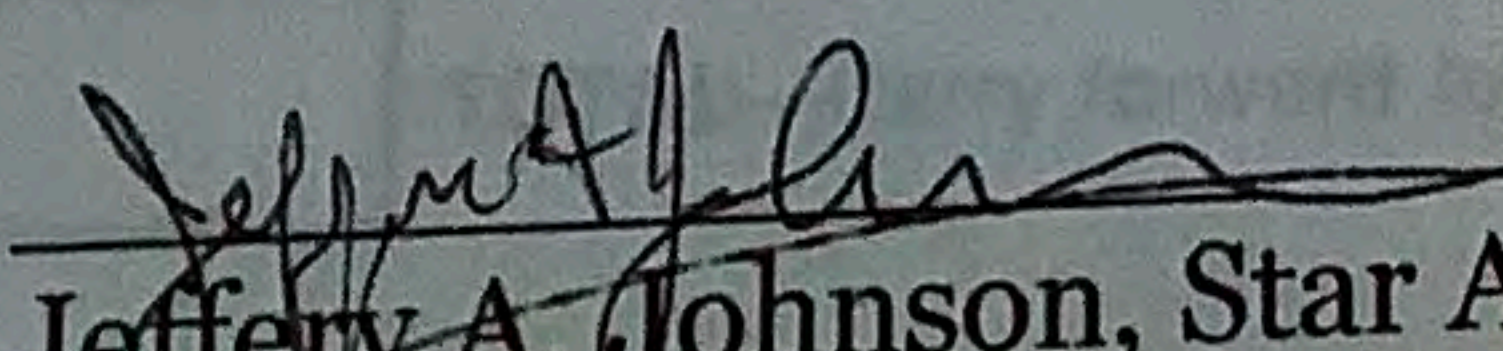
Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

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			<p>7-25-2014 N309LL Tac 2423.8 Airframe W/O # 235                      100 hr. inspection completed this date. Remove all inspection plates, covers. Remove interior seats. Lube all cables, rod ends and control hinders. Tighten and safety. Jack aircraft for gear check. Trouble shoot, down and lock, lights. Check all gear and squawk switch wiring. Remove squawk switch from nose gear link. Check wiring and replace to firewall connection with new sleeve. Reinstall switch. Trouble shoot Reed Switch &amp; wire at firewall and replace with 20 ga wire and new sleeve. Trouble shoot magnet, found defective. Replaced defective magnet with serviceable magnet. Reinstall switch and adjust closure at .004 to reed switch. All gear and actuator lights and horn operating normal. Gear cycled times four, one emergency. Remove shimmy damper for replacement of O rings and hydraulic fluid, reinstall and safety. Service nose strut with nitrogen and hydraulic fluid. Rotate main gear tires. Grease bearings, lube brake caliper pins L &amp; R. Check brake lining. Remove nose wheel, check and replace bearings with new lubed bearings. Replace nose wheel assy. and tighten through bolt. Remove aircraft from jacks. Check ELT per Far 91.207(d). Check fuel strainer and resafety. Replace Vacuum reg. filter B3-5-1 and instrument vacuum filter RAD 9-18-1. Replace bracket air filter per bracket C.I.A and Far 23.1529 and part 43 general procedures. Service brakes with 5606 Hydraulic fluid. Check gear pump fluid and screen. Lube all pullys and cable attachment. AD note 93-05-06 (4-29-93) due at 3428 hr. AD 2011-10-09 (eff 6-17-11) inspection seat rails, seats, seat locking pin and etc. comply with. AD 2011-26-04 (eff 1-25-12) inspect external mounted fuel injector fuel lines, comply with by inspection.</p> <p>I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under work order 23549 dated 7-25-2014</p> <p><i>Randal B Grant</i>                      Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037</p>
			<p>2-9-15 N309LL Tac 2459.1 Airframe                      R brake flat, brake fluid leaking from R brake line swivel. Removed interior and swivel. Replaced swivel with serviceable part, P/N 1280111-1. Serviced brakes with 5606 and bled. Reinstalled interior and removed oil and residue from fuselage.</p> <p><i>Jeffery A Johnson</i>                      Jeffery A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037</p>
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<p>Aircraft Refinishing Company, Inc., 913-755-3098 DATE:04-10-15 N309LL, Serial Number: 177RG-1346, TACH: 2450.8 Strip A/C, remove light corrosion, prep, Install The following New FAA PMA approved parts from Knots 2 U: RH and LH wing tips # 29-GF1723005-18D, RH and LH Stab tips # 29-1732024-1-18D, Vertical fin cap # 29-1731009-4-25C, Upper rudder cap # 29-K1733009-2-18D. Prime with epoxy chromate primer, Repaint with Dupont Imron AF400: White = AF402, Red Met. Pearl = 499019, Grey Met. Pearl = 748854, AF740 Clear on trim colors only. Controls were removed, stripped, prepped, primmed, painted. Stabilator was repaired by Deason Aircraft Services. (see attached yellow tag) Balance was checked asper Cessna service manual and found to be within tolerances and reinstalled. Aircraft is okay for return to service for above listed work performed only at this time..... END .....</p> <p><i>Joseph A. Brull</i> Joseph A. Brull for Aircraft Refinishing Company, Inc. AP3295326</p>			
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5-23-15	N309LL	Tac 2471.6	Airframe Service right brake with 5606, tested toe brakes, operation check good. No drips found. Remove nonfunctioning luggage lock. Install servicable lock cylinder and cam. Trim cylinder to fit key. Installed cylinder. Operation check completed.  Jeffery A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, 3Mo. 64037
9-1-2015	N309LL	Tac 2486.6	Airframe W/O # 23600 100 hr. inspection completed this date. Remove all inspection plates, covers. Remove interior seats. Lube all cables, rod ends and control hinges. Tighten and safety. Jack aircraft cycled gear times four, one emergency. Check ELT per Far 91.207(d). Check fuel strainer & safety. Replace Vaccum reg. filter B3-5-1 and insturment vaccum filter RAD 9-18-1. Replace bracket air filter per bracket C.I.A and Far 23.1529 & part 43 general procedures. Service brakes with 5606 Hydrolic fluid. Check gear pump fluid and screen. Lube all pullys and cable attachment. Tighten stabolizer bolts. Enlarged opening on RH baffle to inhance engine cooling. Removed prop govenor, sent for overhaul, reinstall, static, leak and operation check. Re <sup>move</sup> install nose door, paint and reinstall with new bushings. tighten throttle linkage bolt and safety. Replace 3 worn cowl lord mounts. Trouble shoot hobs meter, repair broken wire at oil pressure switch. Trouble shoot wing spoiler operation post paint job. Cleaned hoses and solenoil valve with air. Qp check good. Restored ground to red nav light. AD note 93-05-06 (4-29-93) due at 3428 hr. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seat rails, seats, seat locking pin, due at 100hr. Comply with. AD 2011-26-04 (eff 1-25-12) inspect external mounted fuel injector fuel lines, comply with by inspection. Due every 100 hr. or when line moved. I certify that the aircraft has een inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under workorder 23600 dated 9-1-2015  Jeffery A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037
9-14-2015	N309LL	Tac 2486.6	Airframe W/O # 23608 Removed starter and replaced with new Sky Tec starter. Remove baffling around starter assy. Remove carb air box. Install new Sky Tec starter per installation instruction 25001 revision f. Replace carb air box and baffling. operation check completed. Re-cowl engine. Recaculate weight and balance.  Jeffery A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

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1-5-2016	N309LL	Tac 2495.5	<p data-bbox="1310 464 1474 507">Airframe</p> <p data-bbox="347 493 1634 873">Oil &amp; oil filter change. Remove oil filter &amp; replace with new CH48103-1 filter. Torque and safety. Service with 8 qt. Aero Shell 15W50. Oil sample was taken. Oil filter cut open and checked. Visual inspection of engine. Adjusted landing gear throttle warning horn switch. Switch set per IAW Cessna 177RG service manual. Inspected right and left wing lower main spar cap, IAW service bulletin 57-03. No corrosion and no cracks found. Reinstall top cowling. Serviced nose strut with nitrogen. Operation check completed.</p> <p data-bbox="347 911 1655 983"><i>Jeffrey A. Johnson</i> Jeffrey A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037</p>
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5-5-2016	N309LL	Tac 2498.9	<p data-bbox="1726 1041 1890 1084">Airframe</p> <p data-bbox="310 1084 1953 1306">Oil &amp; oil filter change. Removed, serviced, charged and reinstalled battery. Remove oil filter &amp; replace with new CH48103-1 filter. Torque and safety. Service with 8 qt. Aero Shell 15W50. Oil sample was taken. Oil filter cut open and checked. Visual inspection of engine. Operation check of right &amp; left wing spoilers ok. Reinstall bottom and top cowl. Ran engine and leak check completed.</p> <p data-bbox="310 1343 1748 1387"><i>Jeffrey A. Johnson</i> Jeffrey A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037</p>
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N309LL

✦ SANTA FE

Airframe Log

## AERO SERVICES

AVIATION  
MAINTENANCE  
SALES

121 Aviation Dr. • Bldg 4002 • Santa Fe NM 87507

Date: 5-13-2016	Make: Cessna	Model: 177RG	S/N: 177RG1346
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Tach: 2505.3	Hobbs: 1906.1	TTAF:	
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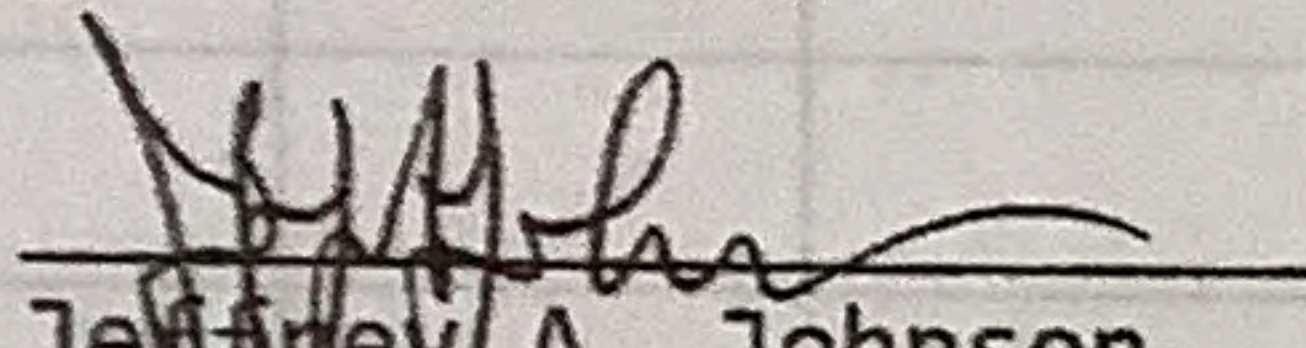
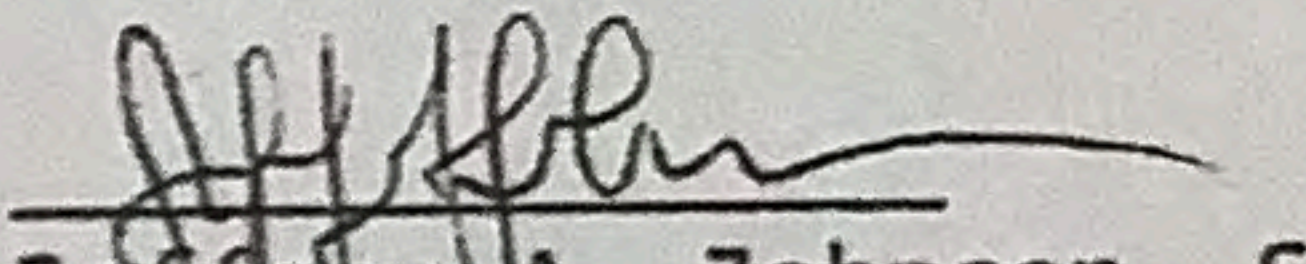
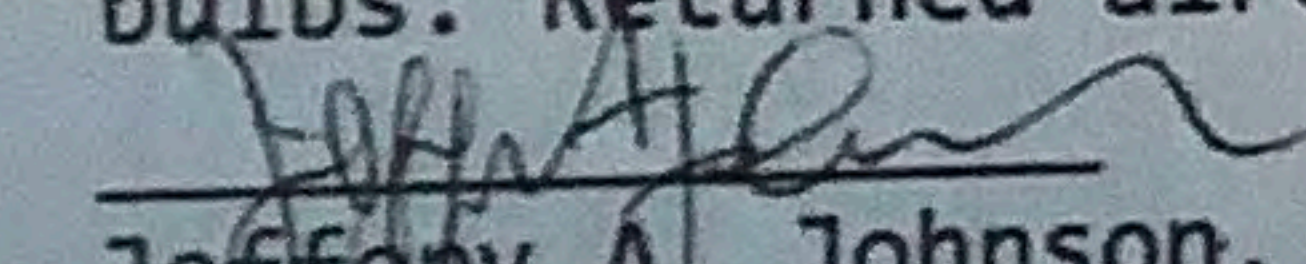
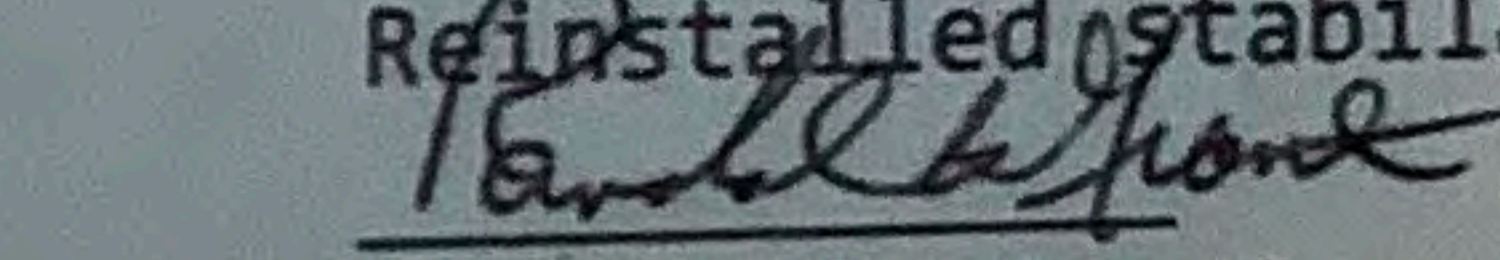
ADJUSTED LANDING GEAR WARNING SWITCH CAM IAW CESSNA 177RG AMM.  
OPERATIONAL CHECKS AND FLIGHT CHECKS SATISFACTORY.

BRANDON MAESTAS  
A&P 3318467

*Brandon Maestas*

Work accomplished at Santa Fe Aero Services, LLC. Reference work order # SO-16-0230

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	<b>TOTAL</b> —Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
2503.2		TOTAL brought forward from previous page		
6-2-2016	N309LL	Tac 2529.2	Airframe Oil & oil filter change. Remove oil filter & replace with new CH48103-1 filter. Torque and safety. Service with 9 qt. Aero Shell 15W50. Oil sample was taken. Oil filter cut open and checked. Visual inspection of engine. Installed new throttle warning horn microswitch. Rigged throttle warning horn microswitch. per IAW Cessna 177RG service manual. Jacked aircraft and performed retraction check and checked throttle warning horn. Removed #2 cylinder induction tube cleaned and reinstalled with new gaskets. Adjusted cowl fastener for better operation. Post run up OP good no leaks   Jeffrey A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037	
9-13-16	N309LL	Tac 2538.0	Airframe W/O # 23677 100 hr. inspection completed this date. Remove all inspection plates, covers. Remove interior & seats. Lube all cables, pulleys, rod ends & control hinges. Jack aircraft, rigged nose landing gear, uplock, doors & repaired chaffing area on nose gear door. Cycled gear times six, one emergency. Check ELT per Far 91.207(d). Check fuel strainer & safety. Replace Vacuum reg. filter B3-5-1 and main filter RAD 9-18-1. Replace bracket air filter per bracket C.I.A and Far 23.1529 & part 43 general procedures. Replaced blown voltage drop resistor in cigar lighter. Service brakes with 5606 Hydraulic fluid. Check gear pump fluid and screen. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seats, rails, ans locking pin, due at 100 hr.  I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under workorder 23677 dated 9-13-2016   Jeffrey A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037	
12-8-16	N309LL	Tac 2555.6	Airframe Trouble shoot gear warning horn static at high throttle setting. Jack aircraft, performed gear retraction to visualize horn switch operation. Adjusted solder connection close to warning horn to gain better clearance. Replaced 3 glareshield instrument bulbs. Returned aircraft to hangar.   Jeffrey A. Johnson, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037	
2-14-17	N309LL	Tac 2555.7	Airframe Remove nose wheel doors and R/H stabilator tip fairing for painting. Reinstalled stabilator and nose wheel doors and safety.   Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037	
		TOTAL—Carry forward to next page		

4-18-17 N309LL Tac 2574.2 Airframe W/O # 23677

Remove and replace ship battery, P/N Gill 240.

*Randal B. Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

No. \_\_\_\_\_

Carolina Flight Services LLC  
864-345-3537

Date April 13, 2017 A/C N309LL Cessna 177RG S/N 177RG1346  
Hobbs: 1977.3 Tach 2568.6

AIRFRAME LOG ENTRY

- Removed & Replaced 60amp alternator Circuit Breaker part provided by customer
- Ops checks okay

*Robert J. Pierce*

Robert J. Pierce A&P 2657776 IA

10-1-17 N309LL Tac 2574.2 Airframe W/O # 23677  
 100 hr. inspection completed this date. Remove all inspection plates, covers, seats. Lube all cables, pulleys, rod ends & control hinges. Serviced hydraulic system with 5606. Jack aircraft, Cycled gear three times, one emergency. Check ELT per Far 91.207(d). Replace Vacuum reg. filter B3-5-1 & main filter RAD 9-18-1. Replace bracket air filter per bracket C.A.I. and Far 23.1529 & part 43 general procedures. Check fuel strainer & safety. Check brakes and service with 5606 Hydraulic fluid. Check tires and service with air. Check gear pump fluid & screen. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seats, rails, and locking pin, due at 2674.2 hr. Replaced broken alternate air door spring. Removed excess windshield sealant. Installed new seals in shimmy damper and service with 5606, reinstall. Replaced engine with reman Lycoming engine model I0360-A1B6 P/N RENPL-RT9896, Serial number RL-28996-51E. Check all engine controls, attachments & safety. Check oil cooler and fittings. Several fittings, attachments & hoses had to be modified or replaced to complete installation. tie wraps were replaced with Adel clamps where applicable per owner request and wires spiral wrapped. replaced cylinder head temp probe # 3 cylinder. The JPI was reprogrammed for dual mags by Higginsville Avionics LLC.

I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under workorder 23713 dated 4-17-2017

*Randal B. Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

Post test flight completed by \_\_\_\_\_ Date \_\_\_\_\_

TOTAL—Carry forward to next page

10-16-17 N309LL Tac 2577.2 Airframe W/O # 23677

Remove and replace voltiage regulator, P/N R1224.

*Randal B. Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

1-10-18 N309LL Tac 2598.3 Airframe

Trouble shoot oil leak, tightened down and torque clamp on R/H mag. Remove prop governor and replace with new governor, P/N C290D31-T2, from Tiffin Air. Changed oil, took sample, cut open & check oil filter. Installed new AA48110 oil filter, torque and safety. Service with 8 qt. Aero Shell 100. Manifold pressure line removed, end flared and reinstalled. Washed down engine & ran, no oil leaks noted. Cowled engine and preformed runup. Prop governor OP in limits. Post flight performed. Replaced taxie bulb with new bulb.

*Jessica A. Trimble*

Jessica A. Trimble, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

N309LL Tach: 2624.4 03/08/2018 W/O: 23747

50 hour inspection. Aircraft was run up, oil was drained, and a sample was taken. Oil filter and oil screens were removed and both were inspected. Finger screen was cleaned, re-installed with new gasket (MS35769-21), torqued, and safety wired. New oil filter was installed, torqued, and safety wired. Engine was serviced with 8 qts of 15w50 oil. Orange light lens was re-installed on the landing gear down light. Top IGN leads and spark plugs were removed to borescope the engine. No discrepancies were found. Rocker box covers were removed to investigate customer concern. Valve seat clearances were checked, cyl heads, and valve spring seats were inspected. Silicone rocker box cover gaskets (SL67193-S) were installed and covers were torqued to 35 in lbs. Plugs and IGN leads were inspected, cleaned, reinstalled with new gaskets,(M674) and torqued. Oil seep was chased down to prop control line, oil dipstick housing, and cyl 3 oil drain line. Dipstick housing was tightened and re-safety wired. Drain line was removed, inspected, re-installed, and torqued. Prop gov oil line was replaced with new (75167) due to damage. Post run up showed no seeping. Prop gov adjustment screw was adjusted 2/3 of a turn and safety wired. Static run up showed static RPM at 2650. Cowling reinstalled, lights functional, and belly was cleaned. Owner to test flight.

I certify that the work has been done in accordance with the manufactures maintenance manuals and was determined to be in airworthy condition pertinent information under work order number 23747.

*Jessica A. Trimble*

Jessica Trimble Star Aero CRS# MF2R003L 11669 Airport Rd Higginsville MO 64037

5-18-18 N309LL Tac 2625.1 Airframe

Reinforeced hat rack panel at station 188.50 between fuselage and empennage.

*Jessica A. Trimble*

Jessica A. Trimble, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

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6-13-18                      N309LL                      Tac 2634.4    W/O 23755                      Airframe  
 Trouble shoot engine RPM variation. remove cowl, adjust prop setting per factory and manual specification. Set prop control cushion. Cowl aircraft, OP check unsatisfactory. Contacted McCaully rep. Prop governor arm was out of rig. Reset prop governor until rigging produced RPM specifications were maintained. Prop control cushion set. All safeties completed, cowl installed and post flight operation check completed. Aircraft returned to service.

*James R. Grant*  
 James R. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

N309LL	6/27/2018	TACH	2641.9
	SEIRAL NUMBER	TOTAL TIME	TSMOH
AIRFRAME	177RG1346		
MAINTENANCE:			
INSTALLED HARTZELL TOP PROP P/N HC-C2YR-1BFP/7894 S/N NS3432B PER STC SA 04200CH ON N309LL. PERFORMED RUN UP. OPS CHECK OK. NO LEAKS NOTED			
I CERTIFY THIS AIRCRAFT WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND MANUFACTURER INSTRUCTION MANUAL AND IS ACCEPTED FOR RETURN TO SERVICE.			
EDGAR MAYNARD A&P 546812431 IA <i>[Signature]</i>			



N309LL  
 C-177RG  
 Tach Time: 2641.9 hrs

Date: June 27, 2018.  
 S/N: 177RG1346

Cessna 177RG stock exhaust system removed. Installed Power Flow Systems, Inc tuned exhaust system, p/n PFS-13706, s/n 220 in accordance with STC# SA03623AT and Installation Instructions/Instructions for Continued Airworthiness report # PFS-13752-00, Rev E, dated 03-26-2014. Removed Brackett engine air filter assembly and installed Challenger engine air filter assembly p/n CP-1177 per STC SA01669CH and installation instructions #0402 issued May 5, 2010, Revision O. Installed Maple Leaf Exhaust Fairing P/N EP5001-001 per STC SA01386NY and installation instructions for EP5001-001. Engine Ground run-up performed, no defects noted during run-up and after shutdown inspection. Weight and balance updated and Form 337s filed this date.

*[Signature]*  
 Darren Tilman 2704293 A&P

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10-1-18	N309LL	Tac 2669.0	Airframe	W/O # 23768 100 hr. inspection completed this date. Remove all inspection plates, covers, seats. Lube all cables, pulleys, rod ends & control hinges. Serviced hydraulic system with 5606. Jack aircraft, Cycled gear three times, one emergency. Check ELT per Far 91.207(d). battery due 2021 Replace Vacuum reg. filter B3-5-1 & main filter RAD 9-18-1. Cleaned Challenger bracket air filter (STC SA01669CH) per Challenger air filter instructions, lube with CP 99-5050 oil and reinstall. Check brakes, lube slides, reinstall and service with 5606 Hydraulic fluid. Install new main tires and tubes, service all tires. Check gear pump fluid. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seats, rails, & locking pin, due at 2769. Check all engine controls, attachments & safety. Check oil cooler and fittings. Removed PFS-13706 Tuned Exhausts power flow system for inspection for continued airworthiness, per Power Flow Systems instructions (PFS-13752-00 REV). Removed, disassembled, inspected, plugged and leak pressure checked, reassembled with anisese at all slip joints per instructions. Reinstalled EGT probes. System torqued where required. Lube baggage door latch. Tightened Pilot yoke screw. AD93-5-6 due 3428 ignition switch inspection. I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under workorder 23768 dated 1-1-2018 <i>Randal B. Grant</i> Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037 Post test flight completed by <i>Tom Sawyer</i> Date <u>10/2/18</u>
12-5-18	N309LL	Tac 2681.4	Airframe	W/O # 23774 Remove cowl and alternator, checked wires, Ran new wire from stator post on alternator to Aux terminal on 1244 regulator. Replaced exhaust clamp from header to collector on number 3 cylinder, P/N 7026. Re-cowl engine. Post run up and flight performed. Operation normal. <i>Randal B. Grant</i> Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037
3-19-19	N309LL	Tac 2686.1	Airframe	W/O # 23779 Remove tail pipe and cowl for oil change. Drained oil and took sample. Cut open oil filter and checked. Removed auxiliary oil plug do to leakage. Cleaned threads, reinstalled, torque and safety. Installed new AA48110-2 oil filter, torque and safety. Serviced with 8 qt. Aero Shell 15W50. Stretched tail pipe for easier installation. reinstall cowl and tail pipe. Install spinner, tail pipe cover and nose wheel door after returning from paint shop. Cotter pins installed as required. <i>Randal B. Grant</i> Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

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5-3-19 N309LL Tac 2706.22 Airframe W/O # 23781  
 Removed existing exhaust tail pipe and replaced with new tail pipe modified per Power Flow Sys. instructions. Page 6 Par. 4.2.1 and detail H of STC SA 03623 AT.  
*Randal B. Grant*  
 Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

WRITE-  
 UP FOR  
 5-23-19  
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8-2-19 N309LL Tac 2712.1 Airframe W/O # 23784  
 100 hr. inspection completed this date. Remove all inspection plates, covers, seats. Lube all cables, pulleys, rod ends & control hinges. Correct Aelrontoo controll wheel cable and safety turnbuckel. Serviced hydraulic system with 5606. Checked operation of gear. Check ELT per Far 91.207(d). battery due 2021 Checked Challenger bracket air filter. Check brakes, service all tires. Serviced gear pump with 5606. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seats, rails, & locking pin, due at 2812.0. Check all engine controls, attachments & safety. Check oil cooler and fittings. Removed PFS-13706 Tuned Exhausts power flow system for inspection for continued airworthiness and warranty, per Power Flow Systems instructions (PFS-13 752-00 REV). Removed, disassemble, inspected, plugged and leak pressure checked, reassembled with anit-sesiz at all slip joints per instructions. Reinstalled EGT probes. System torqued where required. AD93-5-6 due 3428 ignition switch inspection. Removed manifold fuel flow gage, sent for OH and then reinstall. Removed and replaced engine fuel flow injector manifold, install with new fittings. C/W AD 2015-19-7 par. (e)(ii).

I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under work order 23784 Post flight completed by owner.  
*Randal B. Grant*  
 Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

8-29-2019 Aviation Enterprises, LLC 615-828-4195 sales@cessnaskymaster.com  
 1525 Airport Rd., Hangar A-1, Gallatin, TN 37066 M33 Sumner Co. Reg.

N309LL Cessna 177RG S/N: 177RG1346 TTAF: Tach time: 2730.0  
 Airframe

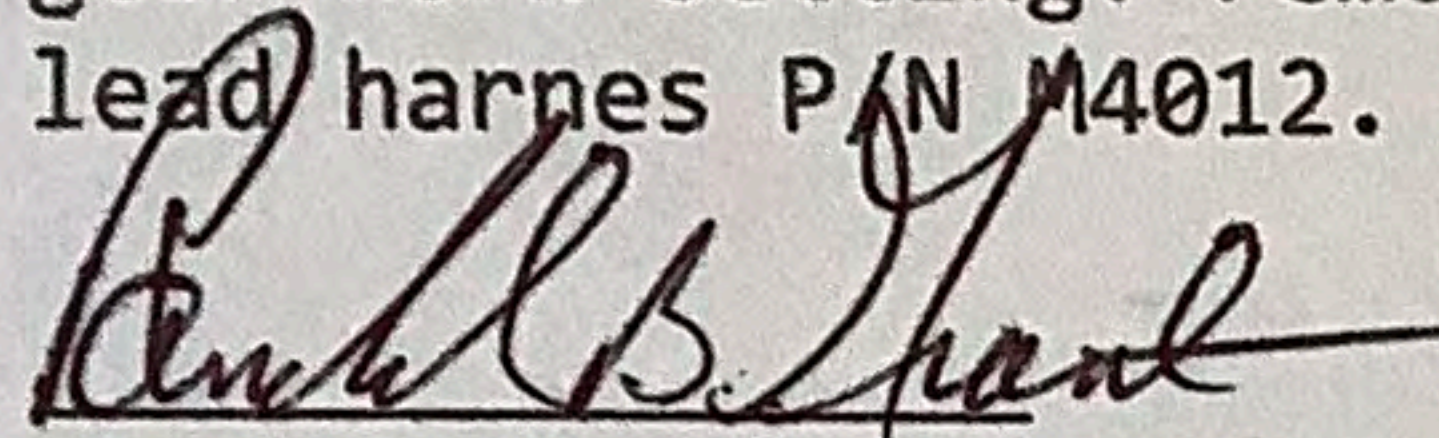
Bled fuel line to OEM fuel flow gauge – found loose fitting at firewall and tightened. Added nitrogen to all three tires. Test ran to check fuel flow operation and fuel pressure readout on JPI 900. Checked RPM drops during mag checks. Work performed by Mike Bell and Chris Bell. Aircraft approved for return to service. Christopher S. Bell A&P, IA 3045205 *Christopher S. Bell*

9-9-2019 Aviation Enterprises, LLC 615-828-4195 sales@cessnaskymaster.com  
 1525 Airport Rd., Hangar A-1, Gallatin, TN 37066 M33 Sumner Co. Reg.

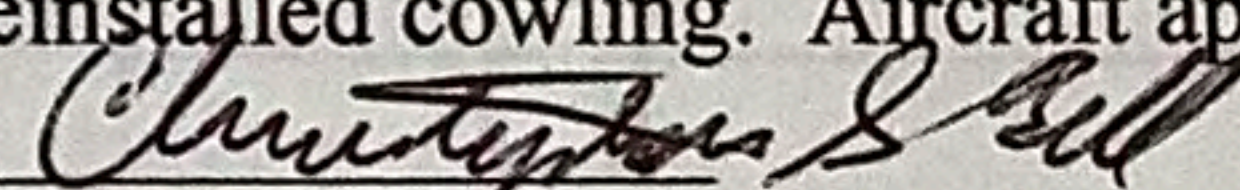
N309LL Cessna 177RG S/N: 177RG1346 TTAF: Tach time: 2140.1  
 Airframe

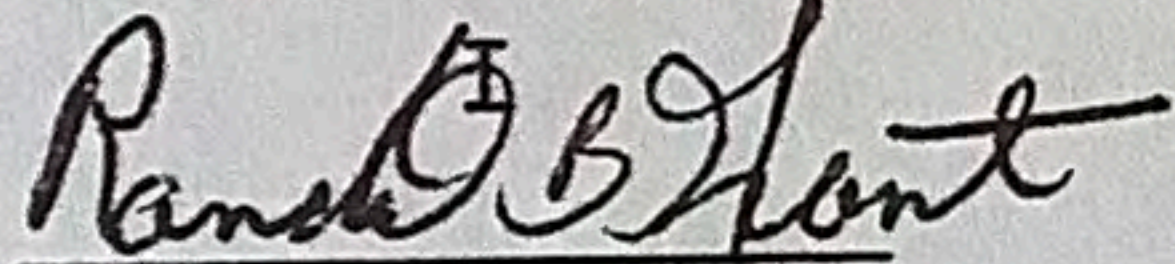
Bled fuel line to OEM fuel flow gauge. Test ran to check fuel flow operation and fuel pressure readout on JPI 900. Checked RPM drops during mag checks. Installed two new rubber lord mounts for cowling attachment at top of firewall. Removed shimmy damper and installed new seals, serviced w/ 5606 oil, installed in airplane, ground tested on runway. Removed Surefly ignition and replaced w/ new system of same type plus hooked up manifold pressure as specified in STC. Inspected and lubed cargo door latch assembly. Work performed by Mike Bell and Chris Bell. Aircraft approved for return to service. Christopher S. Bell A&P, IA 3045206 *Christopher S. Bell*

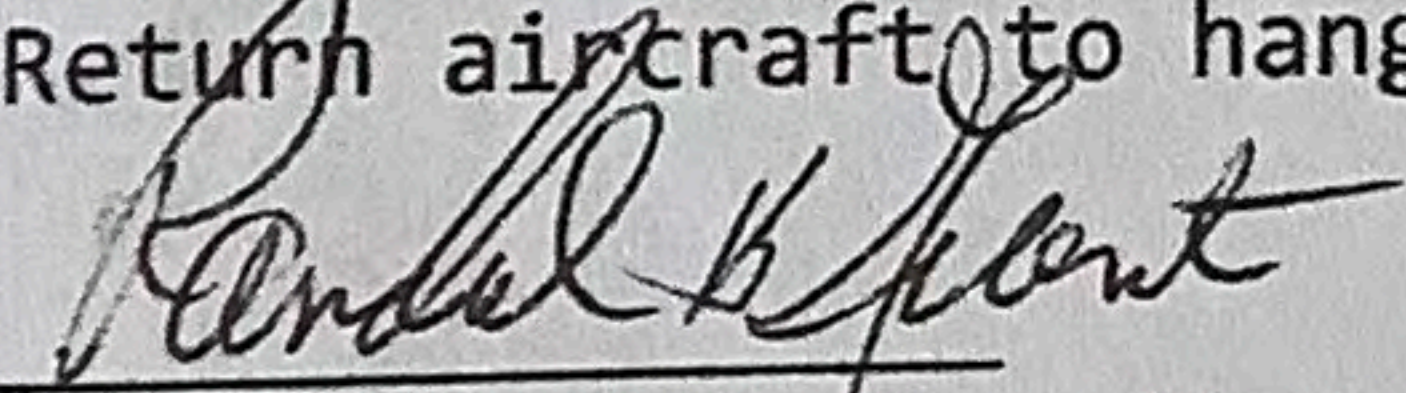
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10-11-19      N309LL      Tac 2748.0      Airframe W/03792  
23792  
 Removed cowl top and bottom Drained oil, took sample, cut open oil filter and checked for metal. Installed new AA48110-2 new oil filter, torue and safety. Serviced engine with 8 qt. AeroShell 15W50. Removed Surefly Mag. system and reinstalled origional R/H Slick mag. and torque. Replace air box scat hose. Adjusted gear horn setting. removed old IGN. leads & installed new IGN. lead harnes P/N M4012. Reinstall Cowl and exhaust pipe & fairing.  
  
 Randal B. Grant , Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

10-21-2019      Aviation Enterprises, LLC      615-828-4195      sales@cessnaskymaster.com  
 1525 Airport Rd., Hangar A-1, Gallatin, TN 37066      M33 Sumner Co. Reg.

N309LL      Cessna 177RG S/N: 177RG1346      TTAF:      Tach time: 2751.4  
 Airframe  
 Removed cowling, adjusted cam on engine throttle valve for landing gear warning switch, repaired scat hose to heat muff. Reinstalled cowling. Aircraft approved for return to service. Christopher S. Bell A&P, IA 3045205  


5-23-19      N309LL      Tac 2706.1      Airframe      W/O # 23784  
 Removed existing R/H mag. and Installed New Surefly mag. P/N SIM4N, timed per general discription 1.1 Surefly Manual using orginal IGN harness. Retimed L/H mag. returned aircraft to service.  
      OUT OF SEQUENCE  
 Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

6-24-2020      N309LL      Tac 2716.7      Airframe      W/O # 23908  
 Fuel strainer repair. Remove and install fuel strainer seal kit, spring, fuel strainer SS stand pipe, gascolator drain plunger and gascolator plunger washer. Reassemble bowl and safety base nut. Cowl aircraft, install exhaust pipe with anti-seize. install exhaust fairing. Return aircraft to hanger.  
  
 Randal B. Grant , Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

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9-1-20            N309LL            Tac 2818.4    Airframe            W/O # 23812  
 100 hr. inspection completed this date. Remove all inspection plates, covers, seats. Check and lube cables, pulleys, rod ends & control hinges. Serviced hydraulic system and brakes with 5606. Jack aircraft preformed gear operation with three gear cycles, one emergency. Check ELT per Far 91.207(d). battery due 2021 Checked Challenger air filter, cleaned and serviced. Replaced brake pads (066-109), wheel bearings (LM29749-20629), Bearing Race (19710-20629) and brake Disk (RA164-04000) with new parts. Replaced MLG tires with new (156E 66B1) and new tubes (302-246-401). Greased all wheel bearings. Safety brake calipers and secure wheels with cotter pins. Installed new seal and serviced shimmy damer with 5606, installed on aircraft. Check all engine controls, attachments & safety. Inspection of Trutrack auto pilot hardware per ICA Par. 11 Rev. H Doc 181. Removed PFS-13706 Tuned Exhausts power flow system for inspection for continued airworthiness, per Power Flow Systems instructions (PFS-13 752-00 REV). Removed, disassemble, inspected, reassembled with anit-sesiz at all slip joints per instructions. Install with new exhaust gaskets and torque. Reinstalled EGT probes. System torqued where required. Removed front R/H baffle, reworked to fit & reinstalled. AD93-5-6 due 3428 ignition switch inspection. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seats, rails, & locking pin, due at 2918.4 or next annual. C/W AD 2015-19-7 par. (e)(ii).

I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under work order 23812 Post flight completed by owner.

*Randal B Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

10-8-20            N309LL            Tac 2821.3    Airframe            W/O # 23815  
 Remove McCulley prop governor to comply with SB-ASB 273 and AD2020-19-06. See 8130 Tiffin Aire Inc. Reinstall. Post operation check performed by owner/pilot.

*Randal B Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

1-6-2021            N309LL            Tac 2832.9    Airframe            W/23818  
 Removed cowl top, bottom exhaust extension and bottom cowl. replaced missing bolt at brace clamp. Drained oil, took sample, removed oil filter, cut open and checked for metal. Installed new AA48110-2 oil filter, torque and safety. Serviced engine with 8 qt. Aero Shell W15W50. Found loose EGT probe #2 cylinder. Reinsert in holder at exhaust riser. Connect landing light and check operation. Reinstall bottom cowl exhaust pipe extension & fairing. Replace missing screw in tail cone. Replaced missing nose scissor grease sert with new P/N MS15002-1.

*Randal B Grant*

Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037

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1-27-2021	N309LL	Tac 2832.9	Airframe W/O 23820 Removed cowl top cowl. Removed bad EGT JPI M-111 #2 cylinder. Replace with new M-111 probe kit and secure. Minor modification, install rubber baffel front #1 cylinder. <i>Randal B. Grant</i> Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037
10-11-19	N309LL	Tac 2748.0	Airframe W/O # 23792 Removed ELT and replaced new battery and check ELT per Far 91.207(d). Replaced ship batter with new Concord 24V batteru S# 41153823. <i>Randal B. Grant</i> Randal B. Grant. Star Aero, Inc. MF2R003L, Higginsville, mo. 64037
8-11-21	N309LL	Tac 2845.8	Airframe W/O # 23836 100 hr. inspection completed this date. Remove all inspection plates, covers, seats. Inspect and lube cables, pulleys, rod ends & control hinges. Serviced hydraulic system and brakes with 5606. Jack aircraft preformed gear operation with three gear cycles, one emergency. Check ELT per Far 91.207(d). battery due 4/2028. Checked Challenger air filter, cleaned and serviced. Check all engine controls, attachments & safety. Inspection of Trutrack auto pilot hardward per ICA Par. 11 Rev. H Doc 181. Visually inspected PFS-13706 Tuned Exhausts power flow system for continued airworthiness, completed, no discrepancies found. Exhaust system reassembled with anit-seiz per instructions. AD93-5-6 due 3428 ignition switch inspection. AD 2011-10-09 (eff 6-17-11) par 4-10, inspection seats, rails, & locking pin, due at 2918.4 or next annual. C/W AD 2015-19-7par. (e)(ii). I certify that the aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station under work order 23836 Post flight completed by owner. <i>Randal B. Grant</i> Randal B. Grant, Star Aero, Inc. MF2R003L, Higginsville, Mo. 64037
12-1-2021	N309LL	Tac 2857.7	Airframe W/O # 23847 Removed cowl and nose wheel shimmy damper. Replaced seal as required and serviced with 5606. Reinstall and safety. Remove R/H brake assy. inspected, cleaned and reinstall. OP check good. <i>James R. Grant</i> James R. Grant. Star Aero, Inc. MF2R003L, Higginsville, mo. 64037

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10-21-22      N309LL      Tac 2911.5      Airframe      W/O # 23873

Removed and replaced RH wing strobe with new strobe, PN:WHE-02-0250274-00. Removed shimmy damper, dressed small scratches in cylinder. Resealed shimmy damper and replaced worn hardware as required, installed/ safetied . No leaks noted. this aircraft is approved for return to service.

 James R Grant, Star Aero, Inc. MF2R003L, Higginville, Mo. 64037

Airframe		page 1 of 1
N309LL TACH: 2923.3	CESSNA, 177RG, S/N: 177RG1346	November 16, 2022
1. Defective hour meter replaced. Tested unit and found no power to the pressure switch. A new wire from the battery master solenoid was routed to the pressure switch with a 1 amp inline fuse. The system was tested and the hour meter was found to be working correctly.		
Richard Deary A & P 3042422 		


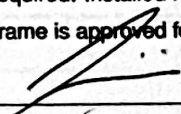

Airframe		page 1 of 1
N309LL TACH: 2929.6	CESSNA, 177RG, S/N: 177RG1346	November 29, 2022
Nose strut serviced with dry nitrogen IAWMMM. With respect to the work performed, this airframe is approved for return to service.		
Richard Deary A & P 3042422 		

Airframe		page 1 of 1
N309LL TACH: 2952.3	CESSNA, 177RG, S/N: 177RG1346	January 26, 2023
<ol style="list-style-type: none"> <li>1. Provide GPU Start.</li> <li>2. L/H brake bled and tested, found satis.</li> <li>3. Found Alternator dropping off line after GPU was unplugged. Battery removed, charged, capacity tested at 82% and recharged. Battery installed in Aircraft. Alternator performed correctly after battery was charged.</li> </ol> With respect to the work performed, this airframe is approved for return to service.		
Richard Deary A & P 3042422 		

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
<b>TOTAL</b> brought forward from previous page			
wo: 14303			Airframe - page 1 of 2
SkyWorld Aviation, Inc - 5083 Airport Rd, Hangar 20, PO Box 147 - MIDLAND , VA 22728 - 540-788-9300			
<b>N309LL</b> Hobbs: 127.0			<b>CESSNA, 177RG, S/N: 177RG1346</b> TACH: 3025.8 <b>May 30, 2023</b>
<ol style="list-style-type: none"> <li>1. A 100 hour inspection of this airframe was performed IAW CFR 43.13 (d) and the MMM.</li> <li>2. Completed Corrosion X treatment on airframe, wing, fuselage, tail section.</li> <li>3. Axel removed, shims and spacers cleaned, brake caliper mounting plate corrosion treated and painted in preparation for installing a new axel.</li> <li>4. New Axel Installed. Installed P/N 0541124 - Axle, Main wheel., Installed P/N S1117-24 - Nut, Main Wheel Axle.</li> <li>5. Curtesy light in L/H wing secured.</li> <li>6. New fire extinguisher and bracket installed. Installed P/N A344 - Extinguisher, Fire.</li> <li>7. Starter motor P/No:- 140-NL/ec S/No:- FNE-171506. removed for exchange under Textron warranty program by owner.</li> <li>8. New starter installed. Installed P/N 149NL/EC - Starter.</li> <li>9. Complied with AD 11-10-09 Seat Rail/Track Assembly by visual and dimensional inspection. No defects noted. Next inspection due 3125.8hrs Tach or May 2024.</li> </ol>			
wo: 14303			Airframe - page 2 of 2
SkyWorld Aviation, Inc - 5083 Airport Rd, Hangar 20, PO Box 147 - MIDLAND , VA 22728 - 540-788-9300			
<ol style="list-style-type: none"> <li>10. One defective lower cowling mounts replaced from stock, one mount ordered. Installed P/N J7444-14 - cowling mount..</li> <li>11. Complied with AD 2015-19-07 by visual inspection no defects noted.</li> </ol>			
With respect to the work performed, this airframe is approved for return to service.			
Richard Deary A & P 3042422			
wo: 14447			Airframe - page 1 of 1
SkyWorld Aviation, Inc - 5083 Airport Rd, Hangar 20, PO Box 147 - MIDLAND , VA 22728 - 540-788-9300			
<b>N309LL</b> TACH: 3079.2			<b>CESSNA, 177RG, S/N: 177RG1346</b> <b>August 02, 2023</b>
1. Lower L/h cowl fastener replaced as required. Installed P/N J7444-42 - J7444-42 Lord Mount.			
With respect to the work performed, this airframe is approved for return to service.			
FRANCOIS KONIG A & P 4106402			
wo: 14447			Airframe - page 1 of 1
SkyWorld Aviation, Inc - 5083 Airport Rd, Hangar 20, PO Box 147 - MIDLAND , VA 22728 - 540-788-9300			
<b>N309LL</b> TACH: 3079.2			<b>CESSNA, 177RG, S/N: 177RG1346</b> <b>August 02, 2023</b>
1. R/H brake bled and both brake master cylinders topped off. Brakes tested satis.			
With respect to the work performed, this airframe is approved for return to service.			
Richard Deary A & P 3042422			

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
<b>TOTAL</b> brought forward from previous page			

wo: 14474	Airframe - page 1 of 1
SkyWorld Aviation, Inc · 5083 Airport Rd, Hangar 20, PO Box 147 · MIDLAND , VA 22728 · 540-788-9300	
N309LL TACH: 3084.2	CESSNA, 177RG, S/N: 177RG1346 August 16, 2023
<ol style="list-style-type: none"> <li>1. Inspected the landing gear for any visible defects and found none. Verified green down and locked indication. Checked hydraulic fluid in the landing gear power pack, and found it to be full. Aircraft jacked and gear function checks C/O including an emergency gear extension check, no faults found. aircraft removed from jacks.</li> <li>2. This aircraft is in a safe condition for a flight from IAD to KHWY with the landing gear in the down and locked position.</li> </ol> <p>With respect to the work performed, this airframe is approved for return to service.</p> <p>Richard Deary A &amp; P 3042422 </p>	

wo: 14351	Airframe - page 1 of 2
SkyWorld Aviation, Inc · 5083 Airport Rd, Hangar 20, PO Box 147 · MIDLAND , VA 22728 · 540-788-9300	
N309LL AFTT: 3090.6 TACH: 3090.6	CESSNA, 177RG, S/N: 177RG1346 ESMOH: 466.63      Hobbs: 205.9 September 01, 2023 PSN: 448.7
<ol style="list-style-type: none"> <li>1. Performed Annual inspection IAW CFR 43.13 (d) and Cessna 177RG inspection guide. Removed all wing, fuselage, tail access panels. Removed all seats and access panels from cabin. Checked all exterior lighting. Performed gear retraction test, normal and emergency, no defects noted. Reinstalled all wing, fuselage, tail access panels. Weighed fire extinguisher. All AD's have checked and complied with thru 9/1/2023.</li> <li>2. Remove headliner. Complied with AD 23-02-17: Carry-Thru Spar Fatigue Cracking by inspection IAW SEL-57-09. No further action required. Reinstalled headliner.</li> <li>3. Removed ME406 ELT PN: 453-6603, SN: 188-01070. Performed ELT inspection IAW CFR 91.207 (d). No defects noted. Battery due replacement APR 2028. Next inspection due SEP 2024. Reinstalled ELT.</li> <li>4. Removed Concorde battery PN: RG24-16, SN: 41153823. Charged battery and performed CAPs check, battery passed with 91%. Recharged battery and reinstalled.</li> <li>5. Completed AD research.</li> <li>6. Inspected nose gear steering linkage and found no defects. No further action taken.</li> <li>7. Complied with AD 11-10-09 SEAT RAIL/TRACK ASSEMBLY by visual and dimensional inspection. No defects noted. Next inspection due 3190.6 or SEP 2024.</li> <li>8. Removed #4 EGT probe and installed new probe PN: M-111. Ops check ok.</li> <li>9. Performed ICA inspection on Power Flow exhaust system IAW PFS-13706 installation and ICA procedure, para 6.0. No defects noted. Next inspection due SEP 2024 or 3190.6 tach time.</li> <li>10. Removed and installed new curtsey light bulb PN: 308 in right wing.</li> <li>11. Inspected Reiff preheater system, no defects noted. Ops check ok.</li> <li>12. Removed gear door from bottom of cowling. Removed brackets for cowling. Installed new brackets PN: 2052008-1, PN: 2052008-2 and bearings PN: S1896-4L1. Reinstalled gear door to cowling.</li> <li>13. Removed challenger air filter, performed ICA inspection IAW Document No. 4003. Cleaned and recharged. Installed one fastener PN: CP3276 and seal PN: CP-1504. Reinstalled air filter.</li> </ol>	

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**Eddy Current Inspection Report**

ET Equipment MIZ 21B Calibration Date 1/20/2023  
Probe Type and Size 100-500Khz 125 Ferrite Shielded Type Inspection Surface  
Reference Standard S/N 154

Item Carry-Thru Spar Lower Spar Cap And Kick Area N309LL Pass  Fail   
Item \_\_\_\_\_ Pass  Fail   
Item \_\_\_\_\_ Pass  Fail   
Item \_\_\_\_\_ Pass  Fail

Inspection Performed By Deborah S. Werner Level III ET  
Deborah S. Werner

**Penetrant Inspection Report**

Penetrant Mfg 1778 Batch \_\_\_\_\_ Cleaner Mfg \_\_\_\_\_ Batch \_\_\_\_\_  
Developer Mfg Ambitious Batch \_\_\_\_\_  
Type \_\_\_\_\_ Method \_\_\_\_\_ Sensitivity \_\_\_\_\_  
Dwell Time \_\_\_\_\_ Drying Temp \_\_\_\_\_ ° F \_\_\_\_\_ Blacklight Intensity \_\_\_\_\_  $\mu\text{W}/\text{cm}^2$

Item \_\_\_\_\_ Pass  Fail   
Item \_\_\_\_\_ Pass  Fail   
Item \_\_\_\_\_ Pass  Fail   
Item \_\_\_\_\_ Pass  Fail

Inspection Performed By \_\_\_\_\_ Level II PT  
Deborah S. Werner

**Magnetic Particle Inspection Report**

MT Equipment \_\_\_\_\_ Amp Meter Cal Date \_\_\_\_\_ Yoke Cal Date \_\_\_\_\_  
Bath Solution \_\_\_\_\_ Batch \_\_\_\_\_ Blacklight Intensity \_\_\_\_\_  $\mu\text{W}/\text{cm}^2$

Item	CC Amps	Head Amps	Coil Amps	Pass	Fail	Demag
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Inspection Performed By \_\_\_\_\_ Level II MT  
Deborah S. Werner

Single Engine

# ATTACHMENT



MANDATORY

SEL-57-09

## CARRY-THRU SPAR INSPECTION REPORT

To:	Page: 1 of <u>1</u> Pages
Wichita Citation Service Center	Includes this cover sheet
Attn: Textron Aviation Team Structures	
2121 S. Hoover Rd	Registration No.: <u>N309LL</u>
Wichita, Kansas 67209	Total Time in Service (Hrs.): <u>3090.1</u>
Phone Number: 316-517-6061	
email: structures@txtav.com	Facility Name: <u>Aero Industries Inc</u>
email: Wichita-COS@faa.gov	Facility Address: <u>5745 Huntsman Rd</u>
From:	<u>Richmond Int'l Airport VA 23250</u>
Date:	<u>CRS BIER 466C</u>
Airplane Serial Number: <u>177RG134L</u>	
Owner's Name: <u>Ambitious Aviation LLC</u>	Phone Number of Facility: <u>804-226-7200</u>
Owner's Address: <u>11832 Rock Landing DR.</u>	Fax Number of Facility: <u>804-226-7209</u>
<u>STE, 201</u>	<u>dsweirver@aeroind.com</u>
<u>Newport News, VA 23606-4231</u>	
Owner's Phone Number: <u>540-353-4731</u>	
Owner's Fax Number: <u>TWEIRJONES@gmail.com</u>	
Please provide detailed and dimensioned descriptions of any crack(s) or corrosion. Attach pictures to this form as necessary.	
Comments/Notes: <u>Found no</u>	Cracks: Yes <input checked="" type="radio"/> No <input type="radio"/> (Circle One)
<u>CORROSION OR CRACKS.</u>	Corrosion: Yes <input checked="" type="radio"/> No <input type="radio"/> (Circle One)
<u>SKYDORIA AVIATION is responsible</u>	Airplane Operation:
<u>for application of CORROSION</u>	Severe: Yes <input checked="" type="radio"/> No <input type="radio"/> (Circle One)
<u>PROTECTION</u>	Typical: <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> (Circle One)
	Unknown: Yes <input checked="" type="radio"/> No <input type="radio"/> (Circle One)
Any previously known or recorded blending or material removal on the carry-thru spar? Yes <input checked="" type="radio"/> No <input type="radio"/> (Circle One)	
List any Structural Supplemental Type Certificates (STC's) Installed: <u>N/A</u>	

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Emailed to Textron & FAA  
9/25/2023





**N309LL**AFTT: 3124.9  
TACH: 440.8**CESSNA, 177RG, S/N: 177RG1346**

ESMOH: 467.13

Hobbs: 492.4

**August 30, 2024**

PSN: 449.2

1. Performed Annual inspection IAW CFR 43.13 (d). Removed all wing, fuselage, tail access panels. Removed all seats and access panels from cabin. Checked all exterior lighting. Performed gear retraction test, normal and emergency, no defects noted. Reinstalled all wing, fuselage, tail access panels. All AD's have checked and complied with thru 8/30/2024.
2. Inspected carry thru spar and corrosion inhibitor was applied per AD AD 23-02-17: Carry-Thru Spar Fatigue Cracking.
3. Removed ME406 ELT PN: 453-6603, SN: 188-01070. Performed ELT inspection IAW CFR 91.207 (d). No defects noted. Battery due replacement APR 2028. Next inspection due AUG 2025. Reinstalled ELT.
4. Removed challenger air filter, performed ICA inspection IAW Document No. 4003. Cleaned and recharged. Reinstalled air filter.
5. Hours updated for the following: AFTT: 3124.9, ESMOH: 467.13, Hobbs: 492.4, PSN: 449.2, TACH: 440.8.
6. Complied with AD 11-10-09: Seat Rail/Track Assembly by visual and dimensional inspection. No defects noted. Next inspection due 3124.9 or AUG 2025.
7. IFR certification 91.411 and 91.413 expires NOV 2024. Last completed 11/11/2022.
8. Removed left cowl flap, sent out for welding. Painted to match existing paint. Reinstalled bracket on cowl flap and reinstalled.
9. Repaired upper cowling inside left front with epoxy resin and fiberglass.
10. Removed LH nose gear door, sent out for welding. Painted to match existing paint and reinstalled.
11. Removed RH fuel drain valve and installed new drain valve P/N: S2020-3, secured and safetied Installed

P/N S2020-3 - Drain, Fuel.

12. Repaired ground wire to left magneto.
13. Performed ICA inspection on Power Flow exhaust system IAW PFS-13706 installation and ICA procedure, para 6.0. Installed (4) P/N 77611 - Lycoming Exhaust Flange Gasket.
14. Removed Battery Concorde RG24-16 SN:41153823. Charged battery. Preformed CAPs battery passed with 81%. Charged and reinstalled battery.
15. Removed left tire and installed new Air Hawk tire PN:AB5F4

I certify this aircraft has been inspected IAW an Annual inspection and was determined to be in an airworthy condition.

Richard Pittman, Jr A &amp; P 2682885 IA \_\_\_\_\_

