

PLATINUM ENGINE LOG BOOK



CONTINENTAL MOTORS

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Printed: 12/02/2007

This engine model I0550N50, Serial No. 691499 was manufactured on 12/01/2007 by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



TELEDYNE CONTINENTAL MOTORS
A TELEDYNE TECHNOLOGIES COMPANY
PRODUCTION CERTIFICATE NO. 508

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
29 JAN 08	5	.5			<p>THE FOLLOWING SUPPLEMENTAL TYPE CERTIFICATE NUMBER HAS BEEN INSTALLED ON THIS ENGINE SE10589SC</p> <p>CDC ⁵⁵ on 01/29/08. Cirrus Design Corporation Duluth, MN USA PC# 338CE</p>

April 16 2008
 N770CT
 S/N 2927
 Flight Hobbs Time: 34.1



Erie Municipal Airport
 395 Airport Drive
 Erie, CO 80516

1. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter. Run up leak check satisfactory.
2. Performed 25 hour inspection in accordance with Cirrus SR22 AMM Chapter 05.
3. Performed cylinder compression test #1 74/80 #2 73/80 #3 76/80 #4 77/80 #5 74/80 #6 75/80.

END

Terrill Shafer
 IA2860279

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT Continental IO-550-N(50) S/N: 691499

07 June 2008 Hobbs: 0102.7 Flight Hobbs: 0080.4

50 Hour Inspection completed this date using the Cirrus 50 Hour Inspection Items as a guide. Serviced engine with 7 quarts Shell 15W50. Installed new oil filter. Old filter inspected. No ferrous contaminants noted. Oil sample submitted. Inspected exhaust, ignition leads and breather. No defects noted. Installed new #2 EGT probe. Ground run operational and leak check satisfactory. END.

L. John Wells L. John Wells A&P3221132 w/o 26572 / 26573

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT Cirrus SR22 S/N: 2927 Aircraft Total Time: 131.1

8 September 2008 Flight Hobbs: 131.1 Hobbs: 165.8

100 Hour Inspection completed this date using the Cirrus inspection program form as a guide. Completed 100 hour service items. Installed new clear coat apint on the right wing leading edge as required. Installed a new pi9lot roll trim placard. Tightened hardware for the pilot sun visor. Serviced the oxygen system. Adjusted the pilots door latches as required. Installed an exchange stromscope processor P/N: 12745-050S, S/N: 90590, operational check good. Installed new tape on the left wing lower fairing at the fuselage as required. Installed new heat shield tape on the lower cowling as required.

Scott L. Utz Scott L. Utz A&P523021803 w/o 26977

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N770CT Continental IO-550-N S/N: 691499 Engine Total Time: 183.4
 8 November 2008 Flight Hobbs: 183.4 Hobbs: 229.0
 50 Hour Inspection completed this date using the Cirrus 50 hour inspection form as a guide. Changed engine oil and filter (Shell 15W50). Cut oil filter open and inspected, no contaminants noted. Inspected engine exhaust, ignition leads and breather, no defects noted. Adjusted the idle mixture 1/2 turn lean. Engine run up and leak check good. *[Signature]* w/o 27263 Scott L. Utz A&P523021803

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N770CT Continental IO-550-N(52) S/N: 691499
 14 March 2009 Flight Hobbs: 248.7 Hobbs: 298.1
 100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 70/80, #2) 72/80, #3) 65/80, #4) 74/80, #5) 70/80, #6) 75/80. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Adjusted left magneto to engine timing. Installed new left hand intercooler baffle P/N: M15475-002. Stop-drilled crack in lower left corner of spinner baffle. Installed new alternator brushes P/N: ALE3045BS. Inspected engine breather and cleaned charred oil residue from outlet in left tailpipe. Cleaned affected area and affixed one sump heat pad and secured engine preheater power plug, operational check satisfactory. Installed new left forward heat shield clamp. Repositioned left wastegate heat shield, no further contact with engine mount weldment noted. Repositioned left turbocharger oil supply line hose, no further contact with engine mount weldment heat shield noted. Removed right hand wastegate and installed and adjusted new wastegate P/N: 22-6150026, S/N: 2927 using new gasket P/N: 652457. Installed and adjusted new wastegate linkage cable modification kit, P/N: 22-5650008 Completed adjustment of cable system per Tornado Alley Installation Instructions. Inspected, reinstalled and torqued left and right exhaust tailpipe clamps. Inspected and pressure tested exhaust system. Washed engine down using solvent. Complied with Challenger induction air filter Continued Airworthiness inspection, by cleaning and servicing filter element per Document #4003 dated 03-09-2004. Checked and lubricated engine and propeller controls. Performed fuel system set-up as outlined in TCM SID97-3E. Adjusted engine idle speed. Post inspection engine ground run-up, operational check and leak check satisfactory. AD's checked through Biweekly 2009-05. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**
[Signature] L. John Wells A&P 3221132 w/o 27623, 27624

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N770CT Continental IO-550-N(52) S/N: 691499
 25 March 2009 Flight Hobbs: 268.0 Hobbs: 317.5
 Installed new alternator brushes P/N: ALE3045BS. Adjusted mid-range RPM setting as needed and installed new safety. Ground run operational check of systems satisfactory.
[Signature] L. John Wells A&P 3221132 w/o 27737

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499
04 June 2009 Hobbs: 0397.7 Flight Hobbs: 0348.2

50 Hour Inspection completed this date using the Cirrus Maintenance Interval 50 Hour Inspection Form as a guide. Serviced engine with 7 quarts **Shell 15W50**. Installed new oil filter. Old filter inspected. No ferrous contaminates noted. Oil sample submitted. Inspected exhaust, ignition leads and breather. No defects noted. Ground run operational and leak check satisfactory. .

L. John Wells **L. John Wells A&P3221132** w/o 27980

348
↑
OUT OF ORDER

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499
28 April 2009 Hobbs: 0350.7 Flight Hobbs: 0301.2

50 Hour Inspection completed this date using the Cirrus Maintenance Interval 50 Hour Inspection Form as a guide. Serviced engine with 7 quarts **Shell 15W50**. Installed new oil filter. Old filter inspected. No ferrous contaminates noted. Oil sample submitted. Inspected exhaust, ignition leads and breather. No defects noted. Applied RTV to forward left side of induction air crossover duct to prevent chafing on cowling. Installed new Scelet tubing on right heat exchanger. Stop-drilled cracks in left side baffle. Fabricated doubler and installed over one crack in spinner baffle. Installed new cabin air inlet insulation sleeve. Engine ground run operational and leak check satisfactory. .

L. John Wells **L. John Wells A&P3221132** w/o 27848

301

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(52) S/N: 691499
9 July 2009 Hobbs: 448.9 Flight Hobbs: 399.4

100 Hour Inspection completed this date using the Cirrus Maintenance Interval Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 64/80, #2) 70/80, #3) 68/80, #4) 70/80, #5) 66/80, #6) 68/80. Installed new #5 cylinder exhaust rocker cover gasket P/N: 655705. Changed engine oil and filter (**Aeroshell 15W-50**). Cut oil filter open and inspected, no ferrous contaminates noted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Cleaned and resealed fuel injection nozzles. Cleaned affected area, applied new Reiff epoxy and rebonded engine preheat thermostat to engine oil pan, operational check satisfactory. Visually inspected engine mount weldment and checked vibration isolator mounts and firewall mounting bolt torque. Torqued left hand exhaust tail pipe clamp and exhaust heat shield. Complied with Challenger induction air filter Continued Airworthiness inspection, by cleaning and servicing filter element per Document #4003 dated 03-09-2004. Inspected and lubricated throttle, mixture and propeller controls. Complied with **Continental SID97-3E (Fuel Injection Systems)** by adjusting low end fuel pressure, idle mixture and idle speed, and checking maximum fuel flow as outlined in (SID). Post inspection engine ground run-up, operational check and leak check satisfactory. AD's checked through Biweekly 2009-15. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

L. John Wells **L. John Wells A&P 3221132** w/o 28040

1. Approving National Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 2331160	
4. Organization Name and Address: Cessna Aircraft Company Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218				5. Work Order/Contract/Invoice Number: 907715		
6. Item: 6 GASKET	7. Description: GASKET	8. Part Number: 652458	9. Eligibility: N/A	10. Quantity: 12	11. Serial/Batch Number: N/A	12. Status/Work: New
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. PO# INV-26189						
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13				15. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
15. Authorized Signature: <i>Kenneth E. Wysocki</i>		16. Approval/Authorization No.: 100129CE		20. Authorized Signature:		21. Approval/Certificate No.:
17. Name (Typed or Printed): KENNETH E. WYSOCKI SR., ODARF		18. Date (m/d/y): MAR/06/2009		22. Name (Typed or Printed):		23. Date (m/d/y):
<p>User/Installer Responsibilities</p> <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> <p>FAA Form 8130-3 (6-01) * Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005</p>						

Maintenance Record

atives, Special Inspections,

(303) 799-8386
691499
S/N: 0427.9
#5. Unit installed
led factory new
satisfactory.
w/o 28222

(303) 799-8386
S/N: 454.9

Section Form and
S/N: #1) 70/80, #2)
#1 15W-50). Cut
rotated spark
P/N: 1396-2.

Next replacement due September 2012 or Flight Hobbs: 754.9. Installed and secured new aft right engine fuel drain line, P/N: 13913-002 adjacent to oil sump. Cleaned and resealed oil cooler reducer bushing fitting, resealed and reinstalled "T" fitting and reinstalled and torqued hose assemblies, no further leakage noted. Applied patch repair to cabin heat box on forward side of firewall pending availability of new part. Complied with Tornado Alley Turbo Service Instruction No. TAT SI08-01 by inspecting and cleaning of crankcase breather discharge tube for coking deposits as outlined in Service Instruction. Next inspection due at Flight Hobbs: 505.9 or next oil change. Complied with Tornado Alley Turbo Service Bulletin No. TAT SB09-01 by inspecting exhaust manifolds for cracks around turbo mounting. flanges, no defects noted. Next inspection due at Flight Hobbs: 504.9 or next oil change. Torqued #2) and #4) cylinder exhaust heat shield clamps. Inspected and pressure tested exhaust system. Washed engine down using solvent. Fabricated and installed surface doubler to forward right baffle below aft section of induction air filter cover. Complied with Challenger induction air filter Continued Airworthiness inspection, by cleaning and servicing filter element per Document #4003 dated 03-09-2004. Checked and lubricated throttle and propeller controls. Post inspection engine ground run-up, operational check and leak check good. AD's checked through Biweekly 2009-19. **I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 AND 200 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**

Greg Sickafoose
Greg Sickafoose A&P 521652584 w/o 28387

ARAPAHOE AERO
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N S/N: 961499 Total Time: 454.9
29 September 2009 Flight Hobbs: 454.9 Hobbs: 510.9
Removed the left turbocharger P/N: 466304-0003, S/N: KIL01420 and reinstalled after repair by Main Turbo System CRS MAMR190K, w/o 40314. Installed new left and right turbocharger to tail pipe clamps do to life limit (450 hours). Pre-oiled turbocharger, ground run up, leak check and operational check good.
Scott L. Utz
Scott L. Utz A&P523021803 w/o 28460

ARAPAHOE AERO
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499 Engine Log Entry
22 October 2009 Hobbs: 525.2 Flight Hobbs: 453.1
Turned max RPM screw on propeller governor out 1.5 turns and resafetied, operations check good. Turned rod-end out 1 turn and resafetied, operations check good. Adjusted high end fuel flow as needed, operations check good.
L. John Wells
L. John Wells A&P 3221132 w/o 28557

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT

Continental

IO-550-N(50)

S/N: 691499

13 August 2009

Hobbs: 0477.9

Flight Hobbs: 0427.9

Removed starter adapter, P/N: 642085-1A1. Installed factory new assembly, S/N: 2252235. Unit installed using new gasket and original hardware. Removed original equipment Iskra starter. Installed factory new Sky-Tec starter, P/N: 657896, S/N: 4C3-260912. Ground run operational and leak checks satisfactory.

L. John Wells A&P3221132

w/o 28222

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT

Continental

IO-550-N(50)

S/N: 691499

Total Time: 454.9

17 September 2009

Flight Hobbs: 454.9

Hobbs Meter: 570.2

100 Hour Inspection completed this date using the Cirrus SR22 Maintenance Interval Inspection Form and the Tornado Alley Turbo Scheduled Maintenance Check List as a guide. Compression test: #1) 70/80, #2) 72/80, #3) 75/80, #4) 74/80, #5) 70/80, #6) 75/80. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Installed new magneto pressurization filter P/N: 1396-2. Next replacement due September 2012 or Flight Hobbs: 754.9. Installed and secured new aft right engine fuel drain line, P/N: 13913-002 adjacent to oil sump. Cleaned and resealed oil cooler reducer bushing fitting, resealed and reinstalled "T" fitting and reinstalled and torqued hose assemblies, no further leakage noted. Applied patch repair to cabin heat box on forward side of firewall pending availability of new part. Complied with Tornado Alley Turbo Service Instruction No. TAT SI08-01 by inspecting and cleaning of crankcase breather discharge tube for coking deposits as outlined in Service Instruction. Next inspection due at Flight Hobbs: 505.9 or next oil change. Complied with Tornado Alley Turbo Service Bulletin No. TAT SB09-01 by inspecting exhaust manifolds for cracks around turbo mounting flanges, no defects noted. Next inspection due at Flight Hobbs: 504.9 or next oil change. Torqued #2) and #4) cylinder exhaust heat shield clamps. Inspected and pressure tested exhaust system. Washed engine down using solvent. Fabricated and installed surface doubler to forward right baffle below aft section of induction air filter cover. Complied with Challenger induction air filter Continued Airworthiness inspection, by cleaning and servicing filter element per Document #4003 dated 03-09-2004. Checked and lubricated throttle and propeller controls. Post inspection engine ground run-up, operational check and leak check good. AD's checked through Biweekly 2009-19. I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 AND 200 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Greg Sickafoose A&P 521652584

w/o 28387

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT

Continental

IO-550-N

S/N: 961499

Total Time: 454.9

29 September 2009

Flight Hobbs: 454.9

Hobbs: 510.9

Removed the left turbocharger P/N: 466304-0003, S/N: KIL01420 and reinstalled after repair by Main Turbo System CRS MAMR190K, w/o 40314. Installed new left and right turbocharger to tail pipe clamps do to life limit (450 hours). Pre-oiled turbocharger, ground run up, leak check and operational check good.

Scott L. Utz A&P523021803

w/o 28460

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT

Continental

IO-550-N(50)

S/N: 691499

Engine Log Entry

22 October 2009

Hobbs: 525.2

Flight Hobbs: 453.1

Turned max RPM screw on propeller governor out 1.5 turns and resafetied, operations check good. Turned rod-end out 1 turn and resafetied, operations check good. Adjusted high end fuel flow as needed, operations check good.

L. John Wells A&P 3221132

w/o 28557

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					

12760 EAST CONTROL N770CT Contine
 5 April 2010 Flight Ho
 100 Hour Inspection for An
 Inspection Form and the Torn
 Compression test: #1) 76/80,
 and filter (Aeroshell 15W-50
 Installed (12) new Champion
 resealed fuel injection nozzles
 alternator brushes P/N: ALE1
 TAT SI08-04 (Cabin Heat A
 exchangers as outlined in Serv
 Complied with Tornado Alley
 Discharge Tube) by inspectin
 Service Instruction. Next ins
 Tornado Alley Turbo Servic
 exhaust manifolds for cracks a
 Hobbs: 539.0 or next oil cha
 turbocharger support brace. C
 (Supplemental Tailpipe Han
 outlined in Service Bulletin. I
 solvent. Fabricated and install
 Alley Turbo Service Bulletin
 inspecting hinge pin ends on a
 hinge pin as outlined in Servic
 Service Instruction 18627. Ch
 engine idle speed. Installed new left and right lower cowling aft seals P/N: 50640-045U. Adjusted engine manifold pressure. Superior Air Parts AD 2009-16-03 (Cylinder Head Separation) effective 09-09-2009, does not apply by engine model number. Continental AD 2009-19-07 C2 (Cylinder Head Cracks) effective 10-07-2009, N/A by engine model. Continental AD 2009-24-52 E (Hydraulic Lifter Rapid Wear) effective 11-18-2009, supersedes AD 2009-24-51, N/A by maintenance history. AD's checked through Biweekly 2010-07. Post inspection engine ground run-up, operational check and leak check good.
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
 Scott S. Fisher A&P 3290363 w/o 29055

NIC
 PR:
 N/A
 007

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 2669891	
4. Organization Name and Address: Cessna Aircraft Company (PCA) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218				5. Work Order/Contract/Invoice Number: 996633		
6. Item: 15	7. Description: PLUG SPARK	8. Part Number: RHB32E	9. Eligibility: N/A	10. Quantity: 12	11. Serial/Batch Number: N/A	12. Status/Work: New
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. PO# INV-27757						
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: <i>Kenneth E. Wsocki</i>		16. Approval/Authorization No.: ODA-100129-CE		20. Authorized Signature:		21. Approval/Certificate No.:
17. Name (Typed or Printed): KENNETH E. WYSOCKI SR.		18. Date (m/d/y): MAR/02/2010		22. Name (Typed or Printed):		23. Date (m/d/y):
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. FAA Form 8130-3 (6-01) * Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005						

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections
Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward →				

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 489.0

5 April 2010 Flight Hobbs: 489.0 Flight Hobbs: 567.0

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 76/80, #2) 71/80, #3) 73/80, #4) 73/80, #5) 72/80, #6) 72/80. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Installed (12) new Champion RHB32E spark plugs. Checked timing of magnetos to engine. Cleaned and resealed fuel injection nozzles. Leak checked fuel system. Cleaned away residual oil and installed new alternator brushes P/N: ALE1013AS. Complied with Tornado Alley Turbo Service Instruction No. TAT SI08-04 (Cabin Heat Augmenter/Tailpipe Cracking) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. Next inspection due Flight Hobbs: 589.0. Complied with Tornado Alley Turbo Service Instruction No. TAT SI08-01 (Crankcase Breather Discharge Tube) by inspecting crankcase breather discharge tube for coking deposits as outlined in Service Instruction. Next inspection due at Flight Hobbs: 539.0 or next oil change. Complied with Tornado Alley Turbo Service Bulletin No. TAT SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges, no defects noted. Next inspection due at Flight Hobbs: 539.0 or next oil change. Torqued all exhaust heat shield clamps. Realigned and secured left turbocharger support brace. Complied with Tornado Alley Turbo Service Bulletin No. TAT SB10-02 (Supplemental Tailpipe Hangers) by installing new one-piece left and right tailpipe retention brackets as outlined in Service Bulletin. Inspected and pressure tested exhaust system. Washed engine down using solvent. Fabricated and installed induction air box riveted surface doubler repair. Complied with Tornado Alley Turbo Service Bulletin No. TAT SB10-01 (Alternate Air Door Hinge and Pin Inspection) by inspecting hinge pin ends on alternate air door for cracks and loose rivets and securing hinge pin by staking hinge pin as outlined in Service Bulletin. Induction air filter inspected and cleaned per K&N Air Filter Service Instruction 18627. Checked and lubricated throttle, mixture and propeller controls. Adjusted engine idle speed. Installed new left and right lower cowling aft seals P/N: 50640-045U. Adjusted engine manifold pressure. Superior Air Parts AD 2009-16-03 (Cylinder Head Separation) effective 09-09-2009, does not apply by engine model number. Continental AD 2009-19-07 C2 (Cylinder Head Cracks) effective 10-07-2009, N/A by engine model. Continental AD 2009-24-52 E (Hydraulic Lifter Rapid Wear) effective 11-18-2009, supersedes AD 2009-24-51, N/A by maintenance history. AD's checked through Biweekly 2010-07. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Scott S. Fisher A&P 3290363 w/o 29055

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Brought to you by **ARAPAHOE AERO**
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 494.1
 8 April 2011 Flight Hobbs: 494.1 Hobbs Meter: 576.6

1. Approving National Aviation Authority/Country: **FAA/UNITED STATES**
 2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG
 3. Form Tracking Number: **3029451**
 4. Organization Name and Address: **Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 F Pawnee, Wichita, KS 67218**
 5. Work Order/Contract/Invoice Number: **1083321**
 6. Item: **8 SEAL**
 7. Description: **154-00300**
 8. Part Number: **154-00300**
 9. Eligibility: **N/A**
 10. Quantity: **15**
 11. Serial/Batch Number: **N/A**
 12. Status/Work: **New**

the Cirrus SR22 Maintenance Manual and Maintenance Check List as a guide. (0, #5) 72/80, (#6) 76/80. Changed engine oil, tested, no ferrous contaminants noted. Replaced magnetos for 500 hour inspection. Cleaned and inspected breaker points P/N: 10-382584, distributor contact brushes, and rotor seals. Cleaned, replaced magnetos, set internal timing and tightened **Ignition Coupling** by visual and dimensional inspection. Main spring P/N: 10-51324 as outlined in Cirrus Bulletin N: 10-400613 and set magneto to engine timing. Hobbs: 994.1. Checked and lubricated throttle, carburetor. Washed engine down using solvent.

13. Remarks: **AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.**
 PO# **INV-29327**

14. Certifies the items identified above were manufactured in conformity to:
 Approved design data and are in a condition for safe operation.
 Non-approved design data specified in Block 13.
 19. 14 CFR 43.9 Return to Service Other regulation specified in block 13.
 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
 15. Authorized Signature: *Kenneth E. Wyosocki*
 16. Approval/Authorization No.: **ODA-100129-CE**
 20. Authorized Signature:
 21. Approval/Certificate No.:
 17. Name (Typed or Printed): **KENNETH E. WYSOCKI SR.**
 18. Date (m/d/y): **MAR/02/2011**
 22. Name (Typed or Printed):
 23. Date (m/d/y):

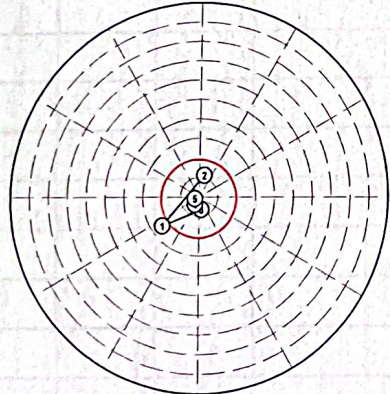
lubricated turbocharger waste gates using **Ignition Discharge Tube** by cleaning coking in Service Instruction. Next inspection due at **ATI SI08-05 (Induction Air Filter)** by visual inspection. Next induction air filter serving due at **SB09-01 (Exhaust Manifold Cracks)** by visual inspection. Next inspection due at **-07-08 (Turbine Wheel Failure) N/A** by visual inspection. Next inspection due at **-11-04 (Hydraulic Lifter Rapid Wear)** by visual inspection. Apply by engine serial number and no lifters replaced.

User/Installer Responsibilities
 It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.
 FAA Form 8130-3 (6-01) * Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

07. Post inspection engine ground run-up, operational check and leak check satisfactory. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
L. John Wells L. John Wells A&P 3221132 w/o 30352

ENG/PROP DYNAMICALLY BALANCED

— POLAR PLOT - 1.0 IN/5 FS —



Operator Comments
 Performed a dynamic propeller balance IAW FAA APPROVED Hartzell Service Instruction #145 and Chadwick Helmuth document AW 9511-2 dated 12 June 1990 using DSS Microvib II equipment and application note AN-MV2 Prop Rev. 00 1 July 2003. Initial IPS of .243 @ 2558 rpm reduced to .025 IPS @ 2557 rpm by installing AN hardware balance weight on spinner rear bulkhead. Jim Barker A&P 2755069 Aviation Resources 101 Airport Ave Hangar 7 Cumberland, WI 54829 Hangar: 715 822 5787 Cell: 715 491 1303 Email: jim@aviationvibes.com www.aviationvibes.com

N770CT Cirrus SR22 G3 TN 2927 507.3 Hrs
Cont/Hart 691499
Front
MicroVib II SN:1177 Cal:10/27/2010
Initial: 0.243 IN/S @ 2558.1 RPM Final: 0.025 IN/S @ 2556.6 RPM

Oper: *Jim Barker*
 Date: 08/14/2011
 Jim Barker A&P 2755069

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

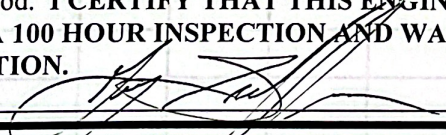
Brought In

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 526.0

10 May 2012 Flight Hobbs: 526.0 Hobbs Meter: 618.2

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 75/80, #2) 76/80, #3) 76/80, #4) 78/80, #5) 77/80, #6) 76/80. Changed engine oil and filter (**Aeroshell 15W-50**). Cut oil filter open and inspected, no ferrous contaminants noted. Blackstone Labs oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. **Tornado Alley Turbo (SB) No. TAT 11-05 (Champion RHB32S Spark Plugs)** does not apply, Champion RHB32E spark plugs are installed, no further action required. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security, no defects noted. Leak checked fuel system. Complied with (SI) No. TAT SI11-02 (**Fuel Pump O-ring Seals**) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin, no defects noted. **Next inspection due May 2013.** Installed new TIT probe P/N: 86245, installed new wire terminal connectors and heat shrink tubing and secured wiring harness. Complied with (SI) No. TAT SI08-01 (**Crankcase Breather Discharge Tube**) by cleaning coking deposits form crankcase breather discharge tube as outlined in Service Instruction. **Next inspection due at Flight Hobbs: 576.0 or next oil change.** Complied with (SI) No. TAT SI08-04 (**Cabin Heat Augmenter/Tailpipe Cracking**) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. **Next inspection due Flight Hobbs: 626.0** Complied with (SB) No. TAT SB09-01 (**Exhaust Manifold Cracks**) by inspecting exhaust manifolds for cracks around turbo mount flanges, no defects noted. **Next inspection due at Flight Hobbs: 576.0 or next oil change.** Complied with (SI) No. TAT SI11-01 (**Exhaust Slip Joint Inspection**) by inspecting right exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. **Next inspection due May 2013 or V-band clamp replacement.** Inspected and pressure tested exhaust system. Complied with (SI) TAT No. SI11-03 (**Turbocharger Support Inspection**) by inspecting turbocharger and waste gate support assembly rods. Installed and aligned new right wastegate support bracket P/N: ETI-G2-600-103-1 using new bolt P/N: MS21250-05020. **Next inspection due May 2013 or V-band clamp replacement.** Inspected and lubricated turbocharger waste gates using Mouse Milk. Complied with (SB) No. TAT SB11-04 (**Turbocharger Oil Supply Inlet Screen**) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. **Next inspection due May 2013.** Checked and lubricated throttle, mixture and propeller controls. Inspected alternate air system and adjusted micro-switch. Complied with (SI) No. TAT SI08-05 (**Induction Air Filter**) by inspecting and servicing induction air filter per Service Instruction. **Next induction air filter serving due Flight Hobbs: 626.0.** Inspected engine pre-heater installation for component condition and security, operational check good. **Continental AD 2011-25-51 (Starter Adapter Gear Shaft Failure)** effective 12-28-2011, supersedes Emergency AD 2011-25-51, does not apply by installed starter adapter date of installation and no replacement (TCM) new or rebuilt starter adapter has been installed between 01-01-2011 and 11-20-2011, no further action required. **Superior Air Parts AD 2012-03-06 (AFS) Fuel Servo Diaphragm** effective 02-24-2012, supersedes AD 2011-15-10, does not apply, (TCM) fuel injection system is installed, no further action required. AD's checked through Biweekly 2012-09. Adjusted high rpm fuel flow setting. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**



Greg Sickafoose A&P 3443687 w/o 31811

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 614.2

5 August 2015 Flight Hobbs: 614.2 Hobbs Meter: 726.8
100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 78/80, #2) 78/80, #3) 70/80, #4) 75/80, #5) 72/80, #6) 75/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminates noted. Customer supplied Blackstone oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security, no defects noted. Leak checked fuel system with electric pump on high and operated mixture, alternator slip rings and brush assemblies, no defects noted. Inspected and pressure tested exhaust system. Installed new left forward heat shield stainless Breeze clamp P/N: 200-06200. Inspected turbochargers and waste gates for condition and security and lubricated wastegates using Mouse Milk. Tightened right turbocharger mounting bolts to specified torque. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Inspected alternate air system for component condition and security. Inspected engine pre-heater installation for component condition and security, operational check good. Complied with (TATI) (SI) No. TAT SI08-01 (Crankcase Breather Discharge Tube) by cleaning coking deposits from crankcase breather discharge tube as outlined in Service Instruction. Next inspection due at Flight Hobbs: 664.2 or next oil change. Complied with (TATI) (SI) No. TAT SI08-04 (Cabin Heat Augmenter/Tailpipe Cracking) by pressure test of left and right heat exchangers per Service Instruction, no defects noted. Next inspection due Flight Hobbs: 714.2. Complied with (TATI) (SI) No. TAT SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next induction air filter serving due Flight Hobbs: 714.2. Complied with (TATI) (SB) No. TAT SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges, no defects noted. Next inspection due at Flight Hobbs: 664.2 or next oil change. Complied with (TATI) (SB) No. TAT SB10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. Next inspection due August 2016. Complied with (TATI) (SI) No. TAT SI11-01 (Exhaust Slip Joint Inspection) by inspecting right exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. Next inspection due August 2016 or V-band clamp replacement. Complied with (TATI) (SI) No. TAT SI11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods per Service Instruction, no defects noted. Next inspection due August 2016 or V-band clamp replacement. Complied with (TATI) (SB) No. TAT SB11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. Next inspection due August 2015. Complied with (TATI) (SI) No. TAT SI12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Instruction, no defects noted. Next inspection due next oil change or Flight Hobbs: 664.2. Continental AD 2014-05-29 (Cylinder Head Separation) effective 04-25-2014, does not apply, Superior Air Parts cylinders are not installed, only original TCM cylinders are installed, no further action required. AD's checked through Biweekly 2015-15. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

[Signature]

Randy Johnson A&P 3123186

w/o 35829

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 627.4

16 August 2016 Flight Hobbs: 627.4 Hobbs Meter: 743.8

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 67/80, #2) 70/80, #3) 65/80, #4) 67/80, #5) 70/80, #6) 70/80. Changed engine oil and filter using (Shell 15W-50). Cut oil filter open and inspected, no ferrous contaminates noted. Customer supplied Blackstone oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security, no defects noted. Installed tywraps around each support clamp for #2 and #5 fuel injector lines. Leak checked fuel system with electric pump on high and operated mixture, no defects noted. Inspected engine cooling baffles and seals for condition and security. Inspected #1) alternator slip rings and brush assemblies, no defects noted. Inspected and pressure tested exhaust system. Tightened TIT probe. Installed sleeve over left wastegate oil return hose to prevent further chafing. Tightened bolt on intercylinder baffle between #1 and #3 cylinder. Inspected turbochargers and waste gates for condition and security and lubricated wastegates using Mouse Milk. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Inspected alternate air system for component condition and security. Inspected engine pre-heater installation for component condition and security, operational check good. Complied with TAT SI08-01 (Crankcase Breather Discharge Tube) by cleaning coking deposits from crankcase breather discharge tube as outlined in Service Instruction. Next inspection due at Flight Hobbs: 677.4 or next oil change. Complied with TAT SI08-04 (Cabin Heat Augmenter/Tailpipe Cracking) by pressure test of left and right heat exchangers per Service Instruction, no defects noted. Next inspection due Flight Hobbs: 727.4. Complied with TAT SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next induction air filter servicing due Flight Hobbs: 727.4. Complied with TAT SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges, no defects noted. Next inspection due at Flight Hobbs: 677.4 or next oil change. Complied with TAT SB10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. Next inspection due August 2017. Complied with TAT SII1-01 (Exhaust Slip Joint Inspection) by inspecting right exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. Next inspection due August 2017 or V-band clamp replacement. Complied with TAT SII1-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods per Service Instruction, no defects noted. Next inspection due August 2017 or V-band clamp replacement. Complied with TAT SB11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. Next inspection due August 2017. Complied with TAT SII2-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Instruction, no defects noted. Next inspection due next oil change or Flight Hobbs: 677.4. AD's checked through Biweekly 2016-17. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Randy Johnson
Randy Johnson A&P 3123186 w/o 37061

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ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 0638.9

Date

12 October 2017 Flight Hobbs: 0638.9 Hobbs Meter: 0758.8
100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 78/80, #2) 72/80, #3) 73/80, #4) 70/80, #5) 73/80, #6) 75/80. Changed engine oil and filter using (Shell 15W-50). CamGuard added just prior to post-Annual ground run. Cut oil filter open and inspected, no ferrous contaminates noted. Blackstone oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security, no defects noted. Leak checked fuel system. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegates for condition and security and lubricated wastegates using Mouse Milk. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Inspected alternate air system for component condition and security. Installed serviceable bearing retainer plate bolt on starter as needed. Removed power cable and torqued terminal hardware in starter as needed. Installed new #2 EGT probe P/N: 16579-002. Complied with TAT SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next induction air filter servicing due Flight Hobbs: 0738.9. Complied with TAT SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges, no defects noted. Next inspection due at Flight Hobbs: 0688.9 or next oil change. Complied with TAT SB10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. Next inspection due October 2018. Complied with TAT SI11-01 (Exhaust Slip Joint Inspection) by inspecting right exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. Next inspection due October 2018 or V-band clamp replacement. Complied with TAT SI11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods per Service Instruction, no defects noted. Next inspection due October 2018 or V-band clamp replacement. Complied with TAT SI12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Instruction, no defects noted. Next inspection due next oil change or Flight Hobbs: 0688.9. AD's checked through Biweekly 2017-20. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

Brought Fo

[Signature]

L. John Wells A&P 3221132 w/o 38356

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N770CT Continental IO-550-N(50) S/N: 691499 Engine Log Entry

21 March 2018 Flight Hobbs: 0642.4 Hobbs Meter: 0763.4
Complied with Tornado Alley Flexible Fluid Hose 10 Year Replacement by installing new hoses as provided by Aviall, reference order number 1003916905 dated 03/19/2018, torqued, sealed and secured hoses. Next flexible hose replacement due March 2028. Ground run operational and leak checks satisfactory.

[Signature]

Nathaniel Alan Beuthel A&P 3659835

w/o 38583

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ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N770CT Continental IO-550-N(50) S/N: 691499 Total Time: 0646.5

04 January 2019 Flight Hobbs: 0646.5 Hobbs Meter: 0768.6

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide.

Compression test: #1) 68/80, #2) 75/80, #3) 70/80, #4) 71/80, #5) 69/80, #6) 70/80. Changed engine oil and filter using (Shell 15W-50). Cut oil filter open and inspected, no contaminants noted. Oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security, no defects noted. Leak checked fuel system. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegates for condition and security and lubricated wastegates. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Cleaned, inspected and reinstalled induction air filter. Installed new TIT probe P/N: 86245. Performed 12 month #1 Alternator Brush Inspection, no defects noted. Next #1 alternator brush inspection due January 2020. Complied with TAT SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next induction air filter servicing due Flight Hobbs: 746.5. Complied with TAT SB11-04 (Turbocharger Oil Inlet Screen Cleaning) by cleaning of turbocharger oil inlet screens for check valves. Next cleaning due January 2020. Complied with TAT SB12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Instruction, no defects noted. Next inspection due next oil change or Flight Hobbs: 696.5. AD's checked through Biweekly 2018-25. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

[Signature]

L. John Wells A&P 3221132 w/o 39607

08/17/20 W/O 114394N770CT TACH AND TT 650.9 ENGINE NEW 650.9 PROPELLER SNEW 650.9

CHANGED OIL WITH 8 QTS AEROSHELL 15/50 OIL INSPECTED FILTER FOR METAL, NONE FOUND. COMP CHECKED 72/80 70/80 68/80 72/80 60/80 63/80. CLEANED AND GAPPED SPARK PLUGS. REMOVED NUMBER 2 AND 5 CYLINDERS. REPLACED WITH COMPLETE ASSEMBLIES FROM J&J AIR PARTS NO JE2R921K USING ALL NEW GASKETS AND SEALS. COPLIED WITH TAT SB 10-01, SB 11-04 AND SB 12-02 OPS CHECKS OK. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION

MOUNTAIN VIEW AEROMOTIVE
20 FOXTROT TAXIWAY DEL NORTE CO 81132
719-589-9100

~~RONALD L ECORDE~~
[Signature]
A&P1691976

10/07/21 W/O 116034N770CT TACH AND TT 655.5 ENGINE NEW 655.5 PROPELLER SNEW 655.5

CHANGED OIL WITH 8 QTS AEROSHELL 15/50 OIL INSPECTED FILTER FOR METAL, NONE FOUND. COMP CHECKED 72/80 72/80 68/80 66/80 78/80 66/80. CLEANED AND GAPPED SPARK PLUGS. COPLIED WITH TAT SB09-01 SB 10-01, SI-1103, SB 11-04, SB 12-02 AND SI20-01. OPS CHECKS OK. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION

MOUNTAIN VIEW AEROMOTIVE
20 FOXTROT TAXIWAY DEL NORTE CO 81132
719-589-9100

~~RONALD L ECORDE~~
[Signature]
A&P1691976

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N770CT

12/12/2018

Nationality and Registration Mark

Date

Removed Garmin GTX-327 011-00490-00 sn: 83730881

Installed Avidyne AXP-340 Transponder 200-00247-000 sn: 01418

STC SA00352BO issued April 9, 2015 Aircraft is on the Approved Model List (AVAXP-006 Rev 2 JUL/2018) for STC SA00352BO.

The AXP340 Mode S panel mount transponder is an ED-73E and DO-181E Class 1 compliant Mode S level 2es datalink transponder, with support for extended squitter, elementary surveillance and SI codes. The AXP340 is also a DO-260B Class B1S compliant ADS-B out participant. The AXP340 meets the relevant environmental requirements of DO-160G/ED-14G, and is certified to ETSO C112d, ETSO C166b, TSO C112d and TSO C166b.

All work done in accordance with AC43.13-1B Chapter 10, Chapter 11 sections 3-13, Chapter 12 sections 1 & 2 and AC 43.13-2B Chapters 1, 2 & 3. Installed per Avidyne Master Drawing List AVAXP-005 Rev 06 dated July 18, 2018 Avidyne AXP-340 Installation Manual 600-00308-000 Rev 03 dated January 26, 2017.

Wire used was Mil-W-22759 20-24 gage. Power was supplied through a 3A Klaxon circuit breaker on the aircrafts Avionics Electrical Buss and labeled "XPNDR". The Transponder used the existing Transponder Antenna and coax. Transponder is wired to the existing King ACK A-30 Encoder for Gillham Altitude data, Airborne Sense information received from the existing Pressure Switch. (used by the previous transponder). GPS Source data provided by existing Avidyne R9 WAAS GPS Receiver.

The Transponder test and inspection per FAR 91.413 Part 43 Appendix F was performed this date. Details of this inspection/ test are on file at this Repair Station on our WO# AV-04177 and an entry was made in aircrafts Airframe Log Book. **The installed ADS-B OUT system has been shown to meet the equipment requirements of 14 CFR 91.277.**

Other than for regulatory periodic functional checks, maintenance of the AXP-340 is on condition only. Instructions for Continued Airworthiness AVAXP-007 Rev 02 dated October 4, 2016 and an FAA Approved Flight Manual Supplement 600-00309-000 Rev 02 dated April 19, 2018 has been added to aircraft's records.

Post installation checkout procedure as described in the Avidyne AXP-340 Transponder Installation Manual 600-00308-000 Rev. 03 was completed

Avidyne AXP-340 Pilot Guide 600-00302-000 Rev 02 has been provided by the Manufacturer and remains with the aircraft. Aircrafts Equipment List has been updated, Weight & Balance has been amended.

Log book entry sticker was issued this date.

Additional Sheets Are Attached



US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
2/28/2011

Electronic Tracking Number
2018000776

For FAA Use Only

Electronically Submitted 337

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark <p style="text-align: center;">N 770CT</p>	Serial No. <p style="text-align: center;">2927</p>	
	Make <p style="text-align: center;">CIRRUS DESIGN CORP</p>	Model <p style="text-align: center;">SR22</p>	Series
2. Owner	Name (As shown on registration certificate) ASCENT MEDICAL P C		Address (As shown on registration certificate)
			Address 1725 CULEBRA PL City COLORADO SPRINGS State CO Zip 809077334 Country UNITED STATES

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name <u>Arapahoe Aero Avionics</u>		U. S. Certificated Mechanic	
Address <u>12780 E Control Tower Road</u>		Foreign Certificated Mechanic	
City <u>Englewood</u> State <u>CO</u>		<input checked="" type="checkbox"/> Certificated Repair Station	
Zip <u>80112</u> Country <u>UNITED STATES</u>		C. Certificate No. <u>ZL6R006Y</u>	
		<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <p style="text-align: center;">Debbie L Paschky</p> <p style="text-align: right; font-size: small;">Digitally signed by Debbie L Paschky Date: 2018.12.12 14:25:52 -07'00'</p>
--	--

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. <u>ZL6R006Y</u>	Signature/Date of Authorized Individual <p style="text-align: center;">Debbie L Paschky</p> <p style="text-align: right; font-size: small;">Digitally signed by Debbie L Paschky Date: 2018.12.12 14:27:07 -07'00'</p>
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AVIONICS UNLIMITED

10051 MILITARY DR.
CONROE, TX 77303

FAA CRS #VUER010Y

P.O. BOX 2306
CONROE, TX 77305

PHONE: (936)788-7333 • TOLL FREE: (866) 703-6388

NAME: Dale Berkbigler

ADDRESS: 9318 County Road 14 Del Norte
CO, 71132

PHONE H: 719-650-0356

PHONE C:

WORK

ORDER: 20121601

DATE: 12/16/20

AIRCRAFT: Cirrus SR22

N770CT

WORK ACCOMPLISHED					JOB DESCRIPTION							
DATE	JOB DESCRIPTION	TIME	TECH	INSP								
1/7	Performed tests and inspections required by FARS 91.411 and 91.413. System complies with FAR43 Appendix E & F.	4.0	MB	<i>MB</i>	Perform test and inspections required by FARS 91.411 and 91.413.							
					Transponder: Avidyne APX 340 S/N 01418 PDF: Avidyne IFD5000 #1 S/N M110330488, #2 S/N M110330451							
1/7	Standby Altimeter.	0.5	MB	<i>MB</i>	Standby Altimeter: 5934PAD-3 S/N 473546							
					QTY	PART NUMBER	DESCRIPTION	COST	TOTAL			
TOTAL LABOR		4.0			TOTAL PARTS							
FINAL INSPECTION							LABOR	\$450.00				
The aircraft or aircraft component identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service. DATE: <u>1-7-21</u> INSPECTOR: <i>[Signature]</i>					I hereby authorize the above repair work to be done along with necessary materials. You and your employees may operate the above aircraft and/or component for purposes of testing, inspection and delivery at my risk. An express mechanic's lien is acknowledged on above aircraft and/or component to secure the amount of repairs thereto. You will not be held responsible for loss or damage to aircraft or articles left in aircraft in case of fire, theft, accident or any other cause beyond your control. I agree that any litigation brought as a consequence of, or related to, the work described in this work order shall be brought in a court in the state of Texas and I agree to be subject to personal jurisdiction in that court with an agreement to be subject to the court's "personal" jurisdiction.					PARTS		
										SUBLET		
										MISC. PARTS		
										FREIGHT		
										TAX		
										TOTAL		\$450.00
SIGNED: _____												



United States of America
 Department of Transportation
 Federal Aviation Administration

Supplemental Type Certificate

Number SA00352BO

This certificate issued to:

Avidyne Corporation
 4 Middlesex Green, Suite 221
 561 Virginia Road
 Concord, MA 01742

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product - Type Certificate Number: See attached FAA Approved Model List (AML), Document No.
 Make: AVAXP-006, Revision 01, or later FAA approved revision, for the
 Model: list of approved airplane models, applicable installation data requirements, and specific limitations.

Description of Type Design Change:

Installation of an Avidyne Corporation Mode A/C/S Transponder with ADS-B Out capability, Model AXP340 loaded with Version 3.13 software (or later FAA approved version) or Model AXP322 with Version 2.7 software (or later FAA approved version), in accordance with Avidyne Corporation Master Document List (MDL), Document Number AVAXP-005, Revision 03, dated October 27, 2016, or later FAA approved revision.

(continued on Page 3 of 4)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: September 19, 2014

Date reissued:

Date of Issuance: April 09, 2015

Date amended: November 30, 2016

By direction of the Administrator

Signature Nicholas Faust
 Nicholas Faust

Title Acting Manager, Boston Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).