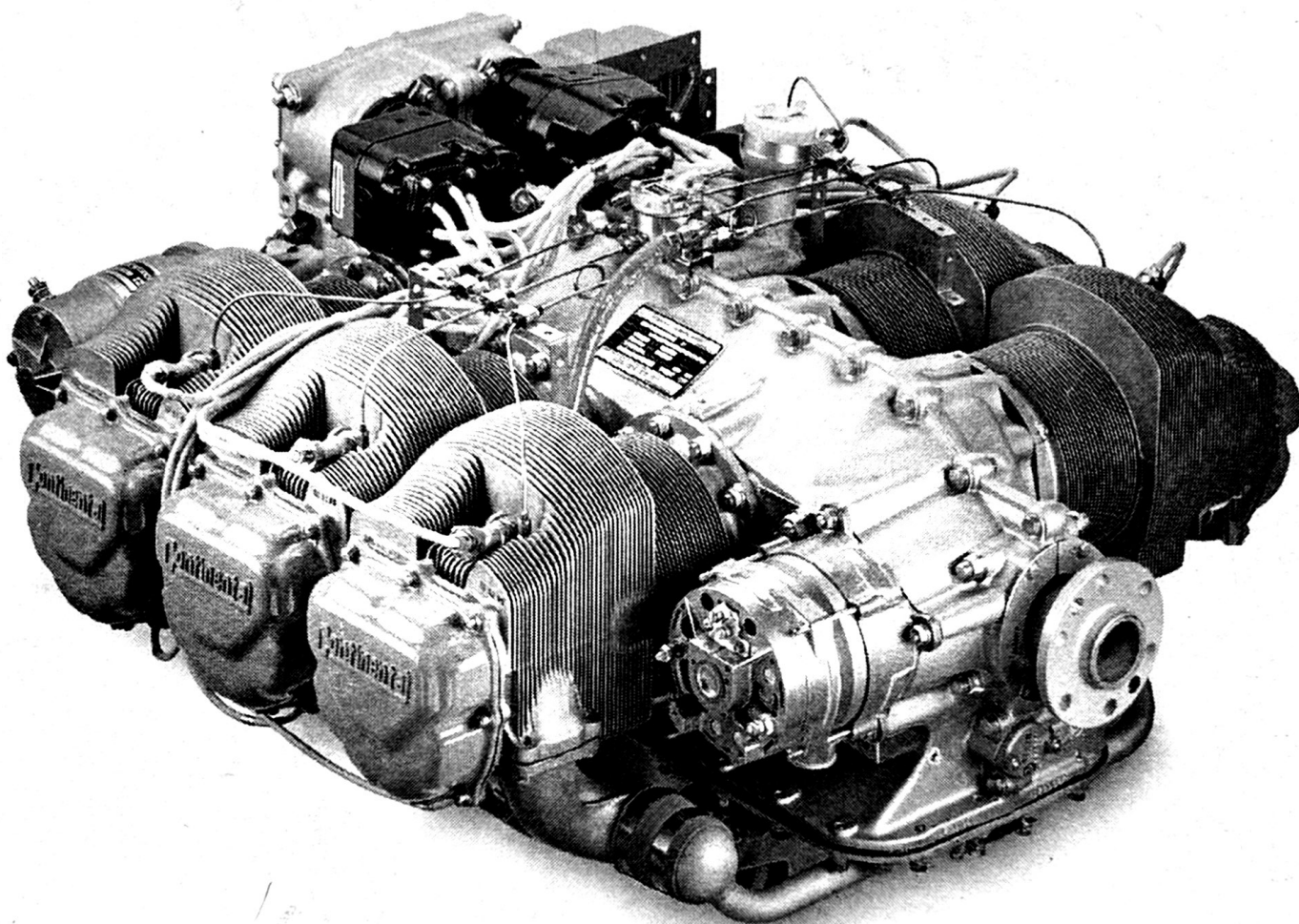


ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

Service Information

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

Engine Returns

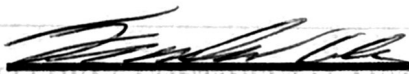
All returned engines are to be shipped with this log book Directly to:

**Teledyne Continental Motors
Abbeville Industrial Park
Suite 159
Abbeville, AL 36310**

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



This engine model _____
was manufactured on _____
by Teledyne Continental
Motors in accordance with approved design data and the applicable requirements of
This engine model **10360ES6**, Serial No. **357499** was manufactured on **09/06/2002**
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. 506

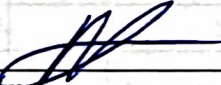
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
9-10-02	0				Serviced Engine with 8 Qts of Phillips 20 WFOG 94 Straight Mineral Oil on 9/10/02 by
11-6-2	23				8 qts + filter mineral oil
1-5-3	53	fifty three			8 qts AeroShell 15-50 + Filter CH48108
3-17-3	94				8 " " " + Filter
6-15-3	140				8 " " + Aublend + Filter
10-1-3	185				" " " "

ENGINE MODEL: IO-360-ES(6) ENGINE S/N: 357499 REG. NO: 7724T WORK ORDER: 357-10-2003		Cirrus Design Factory Service Center 4515 Taylor Circle Duluth, MN 55811 Repair Station No. YD5R855Y	DATE: 10/15/2003 TTA: TTE: 198.3 HOBBS: 198.3
--	---	--	--

Engine Entries

(2) Performed 100 hr. engine inspection IAW CDC AMM 5-20 and 5-30. ... (4) Replaced engine throttle body with new, (p/n 652844-1A4, s/n A02LA137), IAW TCM MM chap. 9.... (5) Replaced engine induction air filter, (p/n BA-24), IAW CDC AMM chap. 71.... (6) Cleaned, gaped, tested, and rotated all engine spark plugs IAW TCM maintenance manual.... (25) Researched ADs through bi-weekly issue 2003/18, all ADs are in compliance at this time.... (32) Performed T.C.M SID 97-3A fuel pressure setups.... (33) Performed engine compression inspection, compressions are as follows, #1 76/80, #3 74/80, #5 73/80 #2 74/80, #4 76/80, #6 74/80 IAW T.C.M. MM section 70-50.... (35) I certify that this engine has been inspected IAW a 100 hr. inspection and was determined to be in airworthy condition. ...

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved/disapproved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 10/15/2003	SIGNED: 	WORK ORDER: 357-10-2003
Aaron Holmgren Certified Repair Station No. YD5R855Y		Printed by EBis (http://www.datcomedia.com)

✓ Oil Changes ↓

11-21-3	225			8 qts AeroShell 15-50 + Aublend + CH48108 - A
4/20/4	270			8 qts " " " "
8/20/4	318			" " " "
11/1/4	363			" " " "
1/20/5	401			" " " "
7/20/5	440			" " " "
1/25/6	480			" " " "
7/20/6	522			" " " "
9/18/6	568			" " " "
12/10/6	595			" " " "

Liebfried Aviation, Inc. (978) 343-6536				557 Crawford St. Fitchburg, MA 01420	
Date:	6/25/03	N#:	N7724T	Hrs.:	
Tech:	Charles Mello	A&P:	235618661A	Sign:	
Description of Work:					
1. Cleaned and gapped the spark plugs installing with new gaskets. Torque to 360" lbs.					

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 →					
11-2-04	356	6	356	6	clw annual insp IAW FAR 43 appx D & using Cirrus Maintenance Checklist as a guide, performed compression test: ① 74 ② 74 ③ 72 ④ 75 ⑤ 73 ⑥ 73, drained oil, R&R oil filter, insp old filter - no contaminants found, serviced sump with 8 qts Aeroshell 15W50 & 1 can of Avblend, serviced spark plugs, clw 300hr mag insp - R&R points in both mags - R&R condensers in rt mag & set mag to engine timing, insp & clean fuel nozzles, R&R alt bracket IAW Maintenance manual, clw PB 2X-80-01 starter replacement, install firesleeve over breather tube, washed engine & lubed controls, ran up & took checked.
Date <u>11-2-04</u> Tach Time <u>356.6</u> Total Time <u>356.6</u> I certify that this <u>engine</u> has been inspected in accordance with a <u>annual</u> inspection and was determined to be in an airworthy condition. <u>William Greenwood</u> William Greenwood A&P2523637 JA					

1. Approving National Aviation Authority/Country:		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 866356	
4. ORGANIZATION Cessna Aircraft Company Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218		5. Work Order/Contract/Invoice Number: 459595		6. Item: 1 ALTERNATOR 654200A1 7. Description: 1 N/A 8. Part Number: 336 9. Eligibility: New 10. Quantity: 1 11. Serial/Batch Number: ED91673 12. Status/Work: New	
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. 336,337 PO# 001751					
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.					
15. Authorized Signature: <u>William Greenwood</u> 16. Approval/Authorization No.: 100129CE 17. Name (Typed or Printed): KENNETH E. WYSOCKI SR. 18. Date (m/d/y): 11/18/2004 19. Date (Typed or Printed): 20. Date (m/d/y): 21. Approval/Certificate No.: 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					

13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. 336,337 PO# 001751
Airframe Tach: w alternator part # 654200A1 rk above. Work Order: 4236 EXEC AIR

ITEM: 1
 ORDER: 866356SN/LOT: N/A
 PN: 654200A1
 QTY: 1
 U/M: EA
 DESC: ALTERNATOR

Liebfried Aviation, Inc.

(978) 343-6536

557 Crawford St.
Fitchburg, MA 01420

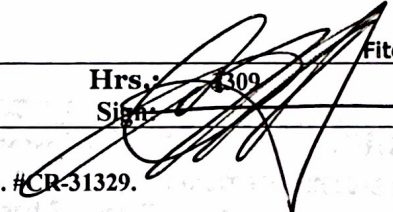
Date: 5/17/05

N#: N7724T

Hrs.: 4309

Tech: Chuck Mello

A&P: 23561866

Sign: **Description of Work: Engine**

1. R&R prop, for seal repair by New England Propeller w.o. #CR-31329.
2. Replaced the tach generator 12630-001S.
3. Operational test with no discrepancies noted.
4. All work was performed i/a/w manufacturer's service instructions. End

Brought

d
s,**Liebfried Aviation, Inc.**

(978) 343-6536

557 Crawford St.
Fitchburg, MA 01420

Date: 7/7/05

N#: N7724T

Hrs.: 440

Tech: Joe Fagone

A&P: 2715156

Sign: **Description of Work: Engine**

1. Replaced the vernatherm, with 639305, with S/N 147939 and safetied.
2. The work was performed i/a/w the manufacturers service instructions and AC43.13-1B.
3. The systems affected were operationally tested with no discrepancies noted. End.

Liebfried Aviation, Inc.

(978) 343-6536

557 Crawford St.
Fitchburg, MA 01420

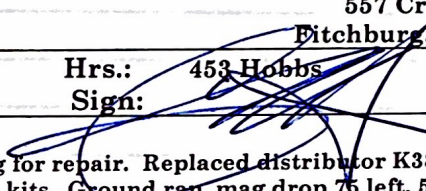
Date: 8/8/05

N#: N7724T

Hrs.: 453 Hobbs

Tech: Chuck Mello

A&P: 23561866 IA

Sign: **Description of Work:**

1. Replaced bottom #4 plug, tested lead. R&R right mag for repair. Replaced distributor K3823, repaired ignition harness at cap #4 and 3 with M6275 kits. Ground ran, mag drop 76 left, 50 right. Check torque at mag gasket at next oil change.
2. The work was performed i/a/w the manufacturers service instructions and AC43.13-1B.
3. The systems affected were operationally tested with no discrepancies noted. End.

Date: 2/02/2007; Aircraft: N7724T; Type: SR20; S/N: 1266; Hobbs: 607.9; Total Time: 607.9
Shop Order # 111443

- * Performed an Annual Inspection of the Engine in accordance with the inspection checklist contained in the SR22 Maintenance Manual.
- * Performed a Differential Compression Check with the following results: Cylinder #1 70/80, Cylinder #2 72/80, Cylinder #3 70/80, Cylinder #4 74/80, Cylinder #5 68/80, Cylinder #6 72 /80.
- * Checked the magneto timing.
- * Lubricated the engine controls per TCM SB95-2. (also lubed slip joints)
- * Drained and screened the oil for particles with none noted. Removed, cut open and inspected the oil filter for particles with none noted. Installed a new oil filter CH48108-1, torqued and safetied. Added 7 quarts of 15W50 Aeroshell oil. Washed the engine with varsol and dried with compressed air. Ground ran the engine and checked for oil leaks with no leaks noted.
- * Removed the fuel nozzles and placed them in a suitable cleaning solution. Performed a fuel flow check, no discrepancies were noted. Reinstalled each fuel nozzle and injector line B nut to original cylinder and torqued.
- * Complied with TCM Service Information Directive 97-2A .
- * Installed new rods and springs for the #3 and #5 inter cylinder baffles.
- * Removed and replaced the oil filler cap gasket, p/n 533355. Adjusted the cap to the proper tension in accordance with the Maintenance Manual. Operationally tested the cap for proper closure with satisfactory results.
- * Installed an adel clamp to the vacuum pump blast tube and secured to the starter housing.
- * Removed and replaced the forward nose gear rubber fairing close out, p/n 14529-001. Secured the rubber fairing to the lower cowl.
- * Resecured the foil inside the bottom cowl using adhesive. Cleaned the area and installed aluminum tape for added support.
- * Cleaned, gapped, and tested the spark plugs. Removed the six most worn spark plugs and replaced with new spark plugs, p/n RHM38E. Torqued the spark plugs to specifications.
- * Removed and replaced the governor rod end, p/n 11314-003. Operationally tested the governor control and travel in accordance with the SR 20 Maintenance Manual with no faults noted.
- * Removed and replaced the mixture control cable rod end, p/n 11314-003. Operationally tested the mixture control and travel in accordance with the SR 20 Maintenance Manual with no faults noted.
- * Accessed the oil/air separator and cleaned as required. Blew out and cleaned the hoses.

Keyson Airways Corporation FAA CRS KNMR864S PAGE 1 OF 1

Keyson

Airways Corporation

Excellence In All Things Aviation



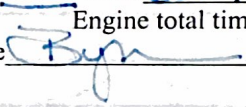
I certify that this engine has been inspected in accordance with an Annual/100 hour Inspection and was determined to be in airworthy condition and is approved for return to service. Pertinent details of this inspection are on file at this Repair Station under the work order listed.

Date: 2.2.07

Work Order # 111443

Tach. or Hobbs Time: 607.9 Aircraft Total Time: 607.9

Engine total time since new or overhaul 607.9

Signature: Keyson Airways Corporation
FAA Certified Repair Station #KNMR864S

Liebfried Aviation, Inc.

(978) 343-6536

557 Crawford St.
Fitchburg, MA 01420

Date: 11-13-07

Tech: Jeff Hill

N#: N7724T

Hrs.: 768

A&P: 3207556

Sign: *[Signature]*

Description of Work:

Engine

1. Cleaned and gapped the spark plugs installed with new gaskets.
2. Performed 500hr Mag inspection, replaced points and brushes. Timed internally installed and timed to engine.
3. The work was performed i/a/w the manufacturers service instructions and AC43.13-1B.
4. The systems affected were operationally tested with no discrepancies noted. End.

Broug

rd
ons,**Mass Aviation Services, LLC**

Worcester Regional Airport

375 Airport Drive, Worcester, MA 01602

7-1-08 WO# 4071

Reg. N7724T

Hobbs: 792.9

Engine TT: 792.9

Engine: Performed an annual inspection in reference with the manufactures checklist. Performed differential compression test with the following results: 1) 71/80 2) 71/80 3) 65/80 4) 70/80 5) 70/80 6) 70/80. Updated the airworthiness directives through Bi-weekly issue 2008-13. Drained oil, removed oil filter, cut open filter to inspect, no discrepancies noted. Replaced oil filter with new P/N CH48108-1. Serviced with Aeroshell 15/50 oil. Removed spark plugs cleaned, gapped, rotated and reinstalled with new gaskets p/n-M-674. Retorqued rocker cover screws. Performed engine run-up and performance check in reference with FAR 43.15 para. C2. Leak checked - satisfactory. I certify that this engine has been inspected in reference with an annual inspection and is determined to be in airworthy condition and approved for return to service.

[Signature]

AP315893661A

Liebfried Aviation, Inc.

(978) 343-6536

557 Crawford St.
Fitchburg, MA 01420

Date: 10-16-08

Tech: Jeff Hill

N#: N7724T

Hrs.: 806 Hobbs

A&P: 3207556

Sign: *[Signature]*

Description of Work:

Engine

1. Test run and checked the fuel un-metered pressures and found both out of spec. Removed MAGs C/W SB 03 & 02-08. Replaced distributor block assy's K3823 on both Mags dated 8-27-08. No wear noted on the cam. Reinstalled & timed MAGs to engine. Inspected injectors found partially clogged and cleaned. Reinstalled & torqued. Found all the spark plugs under gapped. Replaced all plugs with new URHM38E. Ran and adjusted high & low un-metered fuel pressures to spec. Adjusted idle & mixture RPM's. Test ran with a notably smoother operation through out the RPM range.
2. The work was performed i/a/w the manufacturers service instructions and AC43.13-1B.
3. The systems affected were operationally tested with no discrepancies noted. End.

Liebfried Aviation, Inc.

557 Crawford St. Fitchburg, MA 01420

(978) 343-6536

Date: 5-21-09

Tech: Jeff Hill

N#: N7724T

Hrs.: 814

A&P: 32075561A

Sign: *[Signature]*

Description of Work:

Engine Annual 2009

1. Hobbs: 814, SMOH: 814, Prop SMOH: 814.
2. Compression test: 75/ 70/ 70/ 72/ 70/ 74 over 80 PSI.
3. Changed oil and filled with: Aeroshell 15w50.
4. Removed and inspected oil filter with no contaminants noted. Replaced with: CH48108-1.
5. C/W SB02-98 & 03-8 Slick Mag, replaced points with M3081 x2 date code 11/5/2008 and 9/26/2008. Replaced brush with K3215 dated 1/26/2009 & 12/ 18/ 2008. Assembled, timed and installed and timed to engine using new gaskets.
6. Checked un-metered fuel pressures and found to be within limits
7. The systems affected were operationally tested with no discrepancies noted.
8. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. End

05/14/2010 1003 0

REMOVED ENGINE ID-360-ES S/N 357499
FROM CIRRUS AIRCRAFT N7724T AS
PER CIRRUS SR20 AMM

CASEY J. KOMAREK

AIP 3043502

[Signature]

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

Engine Model:

10-3

This engine was disassembled, cleaned, and inspected by Teledyne Mattituck Special Process

Complied with the following Service Bulletins:

MSB96-10A, S
SB03-3, SID97
M91-9, M89-7R

Complied with the following AD's:

This engine is airworthy and return to service

Work Order:

35

Form RS-061 Rev (Aug 2008)

Engine Component Section

ITEM
Camshaft
Crankshaft
Crankcase
Connecting Rod
Connecting Rod
Connecting Rod
Connecting Rod
Connecting Rod
Connecting Rod
Cylinder -1
Cylinder-2
Cylinder-3
Cylinder-4
Cylinder-5
Cylinder-6

Form RS-062 New (July 2008)

ENGINE REPAIR OR OVERHAUL

FAA REPAIR STATION

DATE:

3-AUG-10

ENGINE MODEL:

10-360-ES

DESCRIPTION OF WORK TO BE ACCOMPLISHED:

CORRECTIVE ACTION TAKEN

1. INSPECT ENGINE FOR PROPER STRIKE.

ENGINE DISASSEMBLED, CLEANED, INSPECTED AND REPAIRED AS NECESSARY.

2. COMPLY WITH APPLICABLE SERVICE BULLETINS.

COMPLIED WITH SEE LOG ENTRY AND SERVICE BULLETIN LIST.

3. COMPLY WITH APPLICABLE AIR WORTHINESS DIRECTIVES

COMPLIED WITH SEE LOG ENTRY AND AIR WORTHINESS DIRECTIVE LIST.



Teledyne Continental
Teledyne Mattituck
410 Airway I
Mattituck, NY

FAA-PMA Approved

- When installing drive gear or driver onto magneto, torque nut provided to 120 to 180 inch lbs.
- Use only the installation hardware provided.
- Secure nut with appropriate cotter pin.

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in the ChampionSlick L-1318 Document in the F-1100 Master Service Manual. For LASAR Magnetics, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No.

6314

Magneto Serial No.

10040757 Right

Date of Installation

L-1543

March 30, 2009

WARNING

WARNING

- When installing drive gear or driver onto magneto, torque nut provided to 120 to 180 inch lbs.
- Use only the installation hardware provided.
- Secure nut with appropriate cotter pin.

FAA-PMA Approved

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in the Champion/Slick L-1318 Document in the F-1100 Master Service Manual. For LASAR® Magnetos, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No.

6314

Magneto Serial No.

10040757 Right

Date of Installation

L-1543

March 30, 2009



Teledyne Continental
Teledyne Mattituc

410 Airway Dr
Mattituck, NY

ENGINE REPAIR OR OVERHAUL
FAA REPAIR STATION

DATE:	3-AUG-10	WO	
ENGINE MODEL:	10-360-ES	ENGL	357499
DESCRIPTION OF WORK TO BE ACCOMPLISHED:	CORRECTIVE ACTION TAKEN		
1. INSPECT ENGINE FOR PROP STRIKE.	ENGINE DISASSEMBLED, CLEANED, INSPECTED AND REPAIRED AS NECESSARY.		
2. COMPLY WITH APPLICABLE SERVICE BULLETINS.	COMPLIED WITH, SEE LOG ENTRY AND SERVICE BULLETIN LIST.		
3. COMPLY WITH APPLICABLE AIR WORTHINESS DIRECTIVES	COMPLIED WITH SEE LOG ENTRY AND AIR WORTHINESS DIRECTIVE LIST.		
4. REPLACE PARTS AS NECESSARY.	SEE PARTS LIST.		
5.			
6.			
7.			

AUTHORIZED SIGNATURE :

Michael P. Russell

DATE 3 AUG 10

LOG OF AIRCRAFT ENGINE TEST

TELEDYNE MATTITUCK SERVICES Inc.

Mattituck, N.Y., U.S.A

UNITED STATES FEDERAL AVIATION ADMINISTRATION

APPROVED REPAIR STATION NO. T10R507Y

MM () SS (X)
MH () MISC ()W/O NO. 33512CUST. TH AEROMFG. TCMEngine Total Time 1003. HRS.

Model	<u>10-360 ES</u>	Starter Serial	<u>042380004</u>	Manifold Valve	<u>VISUAL INSP C02HA052</u>
Serial No.	<u>357499</u>	Gen/Alt Model	<u>N/A</u>	Nozzle Ident	<u>HIS FLOWED</u>
S.L. Rated H.P. @ R.P.M.	<u>210 @ 2800</u>	Gen/Alt Serial	<u>N/A</u>	Mag. Model	<u>6314 6314</u>
Fuel Octane	<u>AUGAS 100</u>	Carb. Model	<u>N/A</u>	R.H. Mag Serial	<u>10040757</u>
Fuel Pump Model	<u>VISUAL INSP</u>	Carb. Serial	<u>N/A</u>	L.H. Mag Serial	<u>10040756</u>
Fuel Pump Serial	<u>B02HA0454</u>	Fuel Inj. Model	<u>VISUAL INSP</u>	Ign Timing	<u>24°</u>
Starter Model	<u>VISUAL INSP</u>	Fuel Inj. Serial	<u>A02LA137</u>	Spark Plugs	<u>TEST CELL</u>

TIME		POWER		OIL SYSTEM			FUEL SYSTEM			ATMOSPHERE					CYLINDER HEAD TEMP								EGT
Read- ing	Min.	RPM	M.P.	Press. PSI	Temp °F	Cons lbs/hr	Flow pph/gph	Nozzle Press	Pump Press	Room °F	Inlet °F	Turbo Press	Case Press	Corr. Bar.	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	#1 or
1	3	1000	WARM-UP																				
2	10	1200	12	80/68	146	N/A	16	N/A	12.4	84	N/A	N/A	N/A	30.1	165	260	235	260	235	198	N/A	N/A	1000
3	10	1500	15	72/66	157		19		14.8	86				30.1	175	280	236	290	248	213			1080
4	10	1800	18	68/63	163		28		17.8	89				30.1	178	273	253	302	265	231			1090
5	10	2000	20	68/64	167		41		20.4	91				30.1	180	286	256	305	268	241			1080
6	10	2200	22	68/66	172		54		23.0	93				30.1	183	294	266	310	280	252			1075
7	10	2400	24	60/63	175		70		24.8	95				30.1	185	288	265	317	280	256			1080
8	15	2800	27	64/60	189		106		26.0	97				30.1	190	309	296	340	306	265			1120
9	3	1000	Cool Down Run																				
N/A																							

COMPRESSION TEST				27	26	97	75	26	77	N/A	N/A	ENGINE PERFORMANCE TEST				TEST OPERATOR <i>J. Russell</i>			
				80	80	80	80	80	80	80	80	Both Mags R.P.M. <u>1800</u>							
CYLINDER TYPE				Chrome	Steel	Nitride	Cerminil	TEST CLUB NO. <u>#5 wood</u>				R.H. <u>1720</u> L.H. <u>1720</u>				ACCEPTED <i>Michael Russell</i>			
					*							Drop R.H. <u>80</u> L.H. <u>80</u>							
OIL FILTER/SCREEN INSP OK <i>IR</i>								Idle Speed <i>IR</i>				Idle Mixture <i>IR</i>				Fuel Cut Off <i>IR</i>			

Compliance	SB	AD	Date	Subject
N/A	MSB10-3	10-07-08	05/18/2010	Kelly Aerospace Service Bulletin 039-A
N/A	SIL04-12A		5/18/2010	TCM Authorized Engine Adjustments, Component Replacement and Repositioning of Fitting Orientation
N/A	CSB668		5/18/2010	Inspection of Ignition Harness Attachment Plate
N/A	MSB00-6B		5/18/2010	Slick Service Bulletin SB1-00B
C/W	MSB94-8D	7/4/2025	2/17/2010	Magneto to Engine Timing
C/W	MSB09-8A		12/4/2009	INSPECTION AND REMOVAL OF CERTAIN TCM ENGINE HYDRAULIC LIFTERS
C/W	SB97-6B		11/18/2009	MANDATORY REPLACEMENT PARTS
N/A	SB09-14		10/16/2009	CRANKSHAFT CORROSION TREATMENT
N/A	SB08-8B		4/10/2009	SLICK SERVICE BULLETIN SB0-08A
C/W	SB08-13		10/14/2008	INDUCTION SYSTEM HOSE AND CLAMP INSTALLATION
N/A	CSB08-9A		10/14/2008	SLICK SERVICE BULLETIN SB03-8A
C/W	MSB96-10A	97-26-17	10/14/2008	CRANKSHAFT ULTRASONIC INSPECTION
C/W	SB96-11B		7/10/2008	PROPELLER STRIKES AND HYDRAULIC LOCKS
P/C/W	SID97-3E		6/25/2008	PROCEDURES AND SPECIFICATIONS FOR ADJUSTMENT OF TELEDYNE CONTINENTAL MOTORS (TCM) CONTINUOUS FLOW FUEL INJECTION SYSTEMS
P/C/W	SB08-3		3/25/2008	THROTTLE AND MIXTURE CONTROL ARMS
P/C/W	SB08-4		3/14/2008	Fuel Injection system Contamination
P/C/W	SB08-4		3/14/2008	Fuel Injection system Contamination
C/W	SB07-1		3/19/2007	CONNECTING ROD PISTON PIN BUSHING INSTALLATION
N/A	SB663A		2/5/2007	TWO WIRE MAGNETO TACHOMETER BREAKER (CONTACT) POINTS ASSEMBLY PART NUMBER 10-400507
N/A	X-09-06		9/26/2006	ACTIVE SERVICE BULLETIN INDEX
N/A	SIL93-11A		9/20/2006	SERVICE DOCUMENT FORMAT
C/W	SB06-5		5/25/2006	CRANKSHAFT OIL TRANSFER TUBE INSPECTION AND REPLACEMENT
N/A	SB95-3B		10/25/2005	ALTERNATOR / GENERATOR DRIVE COUPLING
C/W	SIL99-2B		10/20/2005	CURRENT LISTING OF SEALANTS, LUBRICANTS & ADHESIVES AUTHORIZED BY TCM
N/A	SB05-9		10/20/2005	SLICK SERVICE BULLETIN SB1-88B
N/A	SB643B		4/12/2005	MAINTENANCE INTERVALS FOR ALL TCM AND BENDIX AIRCRAFT MAGNETOS AND RELATED EQUIPMENT
N/A	SIL642B		3/10/2005	MANUFACTURING NUMBER (SERIAL NUMBER) INTERPRETATION
C/W	SB96-7C		2/9/2005	TORQUE LIMITS
N/A	SB05-2		2/9/2005	OVERSPEED LIMITATIONS
N/A	SIL05-3		2/9/2005	ENGINE SPECIFICATION NUMBERS
N/A	SB04-11		11/2/2004	VALVE GUIDE APPLICATION, INSTALLATION AND REAMING PROCEDURES
N/A	SIL00-9A		9/10/2004	ENGINE DATA PLATES
N/A	CSB04-5A		8/30/2004	TELEDYNE CONTINENTAL MOTORS IGNITION SYSTEMS CRITICAL SERVICE BULLETIN CSB665A
P/C/W	SIL00-11B		5/24/2004	RELEASE OF NEW CYLINDER INDUCTION PORT DRAIN CONNECTOR
N/A	SID97-2B		4/19/2004	THIS SERVICE INFORMATION DIRECTIVE (SID) SUMMARIZES INFORMATION PERTINENT TO THE DESIGN, OPERATION, MAINTENANCE AND WARRANTY FOR
N/A	SIL04-2		3/30/2004	CYLINDER BARREL ULTRASONIC INSPECTION
N/A	SIL98-9A		3/28/2003	TIME BETWEEN OVERHAUL PERIODS. (TBO)
C/W	SB03-3		3/28/2003	DIFFERENTIAL PRESSURE TEST AND BORESCOPE INSPECTION PROCEDURES FOR CYLINDERS.
N/A	SIL03-1		1/28/2003	COLD WEATHER OPERATION - ENGINE PREHEATING
N/A	SIL02-6A		10/25/2002	PRODUCTION RELEASE OF OPTIONAL INTAKE AND EXHAUST VALVES.
N/A	CSB02-8		9/6/2002	TELEDYNE CONTINENTAL MOTORS IGNITION SYSTEM CRITICAL SERVICE BULLETIN CSB664.
N/A	CSB664		9/6/2002	MAGNETO CAPACITOR P/N 10-400558 REPLACEMENT.
N/A	SIL02-4		4/2/2002	PRODUCTION RELEASE OF NEW LIGHT WEIGHT STARTER MOTORS.
N/A	MSB00-5D	00-08-51	10/17/2001	CRANKSHAFT MATERIAL INSPECTION.
N/A	CSB01-1		4/25/2001	FUEL PUMP INSPECTION AND SEAL LEAK TEST.
N/A	SIL00-7A		2/5/2001	OIL GAUGE ROD APPLICATION.
N/A	SB00-10		12/19/2000	FUEL PUMP SEAL P/N 649198.
N/A	MSB00-6A	00-11-51	6/8/2000	SLICK SERVICE BULLETIN SB 1-00A.
N/A	SB00-4A		3/7/2000	AUSTRALIAN AVGAS CONTAMINATION.
N/A	SB99-8		11/18/1999	ENGINE FUEL INJECTION SYSTEM PRESERVATION.
N/A	SIL661		9/15/1999	BL - PREFIX MARKING ON REBUILT MAGNETOS AND REBUILT D-3000 IGNITION SYSTEMS.
N/A	SIL98-6B		8/23/1999	FUEL INJECTION SYSTEM APPLICATION GUIDE.
C/W	SID97-4C		4/1/1999	CYLINDER BORE AND PISTON FIT SPECIFICATIONS.
C/W	SIL99-1		3/25/1999	ENGINE PRESERVATION FOR ACTIVE AND STORED AIRCRAFT.
P/C/W	SB98-8		10/22/1998	NUMBER ONE AND THREE CYLINDER INTAKE TUBE MODIFICATION.
N/A	CSB98-1B		6/1/1998	INTAKE AND EXHAUST VALVE INSPECTION.

N/A	SB660		12/5/1997	POSSIBLE MALFUNCTION IN CERTAIN PUSH-TO-START IGNITION/STARTER SWITCHES.
N/A	SB97-15		12/5/1997	TCM IGNITION SYSTEM SERVICE BULLETIN SB660.
N/A	SIL657A		10/9/1997	SUPERSEDURE OF P/N 10-163136 AND 10-361638 COVERS AND OF 10-361637 COVER KIT.
N/A	CSB97-10A		7/15/1997	PISTON PIN PLUG WEAR.
N/A	SIL97-1		1/3/1997	AIRWORTHINESS LIMITATIONS.
N/A	SB654A		11/15/1996	IMPROVED CAPACITOR, P/N 10-400604, FOR CERTAIN SHORT COVER S-20 AND S-200 SERIES MAGNETOS.
N/A	CSB96-13		11/14/1996	IO-360, TSIO-360 AND LTSIO-360 SERIES ENGINE CONNECTING ROD INSPECTION AND REPLACEMENT.
N/A	SB96-12		9/10/1996	CONTINUED AIRWORTHINESS INSTRUCTIONS FOR TCM CYLINDERS.
N/A	SB658		8/16/1996	DISTRIBUTOR GEAR MAINTENANCE.
N/A	CSB96-8		6/25/1996	REPLACEMENT OF AIRMELT (NON-VAR) CRANKSHAFTS
N/A	SIL656		5/17/1996	RELAY VIBRATOR SUPERSEDURE
N/A	SID96-6		5/3/1996	TCM IGNITION SYSTEMS SERVICE BULLETIN SB653.
P/C/W	SB96-4		4/12/1996	IMPROVED OIL PUMP GEARS AND SUCTION SCREENS
P/C/W	CSB96-5		4/12/1996	OIL PUMP DRIVE GEARS, P/N 649506 AND 649681
N/A	SB95-7		12/8/1995	MANIFOLD VALVE COVER INSPECTION
C/W	SIL95-5		8/30/1995	HOSE AND TUBING INSTALLATION.
N/A	CSB95-4		8/10/1995	INTAKE VALVE GUIDE SEAL P/N 646678 INSPECTION
N/A	SB653		5/23/1995	HOT MAGNETO TEST
N/A	SB95-2		4/21/1995	INSPECTION AND MAINTENANCE OF ENGINE CONTROL CABLES AND LINKAGE.
N/A	SB650		3/17/1995	STOP PIN PROCEDURES
N/A	SIL648		10/18/1994	OPTIONAL CONVERSION TO "SHOWER-OF-SPARKS" IGNITION
N/A	SIL647		10/3/1994	SC-20 AND SC-200 SERIES MAGNETO PRODUCT LINE
N/A	SIL646		9/14/1994	HISTORY OF THE REQUIREMENT TO REPLACE MAGNETO COILS AND ROTATING MAGNETS.
N/A	SIL94-5		6/14/1994	MOBIL AV1 OIL
N/A	MSB645	96-12-07	4/4/1994	INSPECTION OF RIVETED IMPULSE COUPLINGS AND STOP PINS
N/A	MSB644	94-01-03	4/4/1994	REPLACEMENT OF MAGNETO COILS AND ROTATING MAGNETS
N/A	SB94-2		2/10/1994	OIL FILTER ADAPTER MOUNTING STUD
N/A	SIL640		2/1/1994	NEW SERVICE DOCUMENT FORMAT
N/A	CSB94-1		2/1/1994	TELEDYNE CONTINENTAL MOTORS IGNITION SYSTEMS SERVICE BULLETIN - No. CSB641
N/A	CSB641	94-06-09	2/1/1994	POSSIBLE OPEN CONDITION OF SC-20, SC-200 AND S-1200 SERIES MAGNETO CAPACITOR, P/N 10-349276.
C/W	SIL93-15		9/13/1993	GENERAL PRACTICES FOR USE OF LOCK WIRE, TAB WASHERS AND COTTER PINS.
N/A	SIL93-14		8/17/1993	CFC WARNING STATEMENT
N/A	M93-10		3/1/1993	TCM IGNITION SYSTEMS SERVICE BULLETIN NO. 639
N/A	639	96-12-07	3/1/1993	PROPER INSTALLATION OF IMPULSE COUPLINGS
C/W	M93-8		2/19/1993	ROCKER ARM TO ROTOCOIL CLEARANCE
C/W	M93-4		2/12/1993	CRANKSHAFT COUNTERWEIGHTS
N/A	M92-10		8/14/1992	STARTER ADAPTER
N/A	636		8/1/1992	BENDIX/TCM IGNITION SWITCH INSPECTION
N/A	M92-7		5/26/1992	CRANKCASE CYLINDER DECK STUDS
N/A	M92-4R1	92-04-09	2/5/1992	IO AND LTSIO360 ROCKER SHAFT STUD INSPECTION
C/W	M91-9		8/9/1991	CAM AND LIFTER LUBRICATION DURING ENGINE BUILD
N/A	635		5/1/1991	GOLD SEAL HARNESS
N/A	634		12/1/1990	REPLACEMENT OF P/N 10-357173 BREAKER ASSEMBLIES EXHIBITING BATCH CODE 0690 AND P/N 10-357174 BREAKER ASSEMBLIES EXHIBITING BATCH
N/A	M90-17	77-13-22	8/23/1990	CRANKCASE INSPECTION CRITERIA
N/A	M90-13		7/16/1990	EXHAUST VALVE STEM CORROSION/EROSION
N/A	631		9/1/1989	RECOMMENDED LUBRICANT FOR TAPERED DRIVE ON TCM MAGNETOS
N/A	M89-18		8/10/1989	EXHAUST GAS TEMPERATURE (E.G.T.) RECOMMENDATIONS FOR STANDARD ENGINES (Leaning Lean)
C/W	M89-7R1		8/4/1989	ENGINE OPERATION AFTER CYLINDER REPLACEMENT AND/OR MAJOR OVERHAUL
N/A	M89-9		4/21/1989	EXCESSIVE CRANKCASE PRESSURES
N/A	M88-10	95-21-15	8/24/1988	CONTAMINATED FUELS
N/A	M88-9		8/24/1988	LIGHTNING STRIKES
N/A	M88-4	88-03-06	1/15/1988	TCM PRO-TECH OIL FILTER
C/W	M87-23		11/24/1987	CRANKSHAFT COUNTERWEIGHT IDENTIFICATION AT OVERHAUL
N/A	M87-16		8/14/1987	SLICK SERVICE BULLETIN SB1-86A
N/A	M87-15		7/13/1987	ALTERNATOR GROUND STRAP
N/A	M87-8		2/26/1987	EXHAUST VALVE INSPECTION
N/A	623A	82-20-01	8/1/1984	INSPECTION OF IMPULSE COUPLING CAM ASSEMBLIES

N/A	M83-5		3/7/1983	SLICK SERVICE BULLETIN 3-82
N/A	M81-25		11/30/1981	EXHAUST FLANGE TO CYLINDER INSTALLATION PROCEDURES
N/A	614	81-17-01	2/1/1981	REPAIR OF CERTAIN STARTING VIBRATORS UTILIZING "5" CONTACT BUSHING (CONNECTOR)
N/A	M80-18		9/2/1980	MODIFIED BREATHER SYSTEM
N/A	583	76-07-12	4/1/1976	IGNITION SWITCHES, ROTARY ACTION, KEY OR LEVER ACTUATED, TWIST-TO-START, PUSH-TO-START, TWIST-TO-START/PUSH-TO-PRIME TYPES.
C/W	M76-4		3/12/1976	INSTALLATION INSTRUCTIONS FOR PROPELLER SHAFT OR CRANKSHAFT OIL SEALS
N/A	556C	74-26-09	7/1/1975	SHOULDERED MAGNETO DRIVE SHAFT BUSHING, CHANGE FROM SINTERED IRON TO MACHINED STEEL.
N/A	M74-18	74-08-05	9/16/1974	COMPLIANCE WITH SLICK BULLETIN 1-74
N/A	M71-14	74-18-05	6/21/1971	SLICK SERVICE BULLETIN NO. 1-71
N/A	M70-11		6/22/1970	SLICK ELECTRO BULLETIN 1-70
N/A	M64-18		10/7/1968	FIELD CONVERSION TO TURBOCHARGING OF CONTINENTAL AIRCRAFT ENGINES
Air Worthiness Directives Listings				
N/A		2000-23-21	12/12/2000	CRANKSHAFT MATERIAL INSPECTION
N/A		98-19-02	11/9/1998	TCM ENGINE - SUPERIOR AIR PARTS PISTON PIN.
C/W		97-26-17	3/9/1998	TCM ENGINE - CRANKSHAFT INSPECTION, VAR AND ULTRASONIC.
N/A		95-21-15	11/28/1995	TCM ENGINE - LOW OCTANE FUEL
N/A		94-01-03	6/28/1995	TCM IGNITION SYSTEM - COIL AND ROTATING MAGNET
N/A		94-06-09	3/9/1994	TCM IGNITION SYSTEM - CAPACITOR
N/A		93-10-02	8/12/1993	TCM ENGINE - VALVE RETAINER KEY
N/A		92-04-09	6/22/1993	TCM ENGINE - ROCKER SHAFT HOLD DOWN STUD INSPECTION
N/A		91-19-03	9/29/1991	TCM ENGINE - OIL FILTER
N/A		88-03-06	4/15/1988	TCM ENGINE - OIL FILTER
N/A		82-20-01	9/19/1982	TCM IGNITION SYSTEM - IMPULSE COUPLING
N/A		81-17-01	8/13/1981	TCM IGNITION SYSTEM - STARTING VIBRATOR
N/A		76-07-12	8/30/1977	TCM IGNITION SYSTEM - IGNITION SWITCH
N/A		74-26-09	12/24/1974	TCM IGNITION SYSTEM - DRIVE SHAFT BUSHING
N/A		70-14-07	11/22/1974	TCM ENGINE - FUEL INJECTION PUMP ADJUSTABLE BYPASS NEEDLE
N/A		72-24-03	11/15/1972	TCM ENGINE - OIL FILTER ADAPTER

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 →					

Engine Model:	10-360-ES	Engine S/N:	357499	Engine Time:	1003 HRS
---------------	-----------	-------------	--------	--------------	----------

Teledyne Mattituck Services

FAA Repair Station T10R507Y
410 Airway Drive
Mattituck, New York 11952

This engine was disassembled, cleaned, inspected and repaired as necessary. Parts replaced per the supplied parts list. Engine reassembled and test cell run per Teledyne Mattituck Special Process SP1012C.

Complied with the following Service Bulletins: MSB94-8D, MSB09-8A, SB97-6B, SB08-13, MSB96-10A, SB96-11B, SB07-1, SB06-5, SIL99-2B, SB96-7C, SB03-3, SID97-4C, SIL99-1, SIL95-5, SIL93-15, M93-8, M93-4, M91-9, M89-7R, M87-23, M76-4.

Complied with the following AD Notes: 97-26-17- TCM ENGINE CRANKSHAFT INSPECTION, VAR & UUT - Sun, 10-11-04- HYDRAULIC LIFTERS.

This engine is airworthy and returned to service with respect to the work performed.

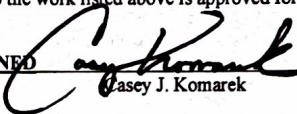
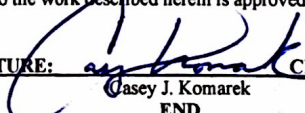
Work Order:	33512	Authorized Signature:	<i>Matthew F. Russell</i> 8-3-2010
-------------	-------	-----------------------	------------------------------------

Form RS-061 Rev (Aug 2008)

Engine Component Serial Number Summary:

ITEM	Serial Number	Item	Serial Number
Camshaft	N/A	Left Magneto	10040756
Crankshaft	N02FA433	Right Magneto	10040757
Crankcase	S02GA108	Starter	042380004
Connecting Rod	AE02GB404	Manifold Valve	C02HA052
Connecting Rod	AE02GB388	Fuel Pump	B02HA454
Connecting Rod	AE02GB396	Metering Unit	A02LA137
Connecting Rod	AE02GB440	Oil Cooler	G0219462C
Connecting Rod	AE02GB428	Alternator	N/A
Connecting Rod	AE02GB433	Turbocharger	N/A
Cylinder -1	93089	Turbocharger	N/A
Cylinder-2	93090	Turbo Controller	N/A
Cylinder-3	93091	Turbo Controller	N/A
Cylinder-4	93092	Overboost Valve	N/A
Cylinder-5	93093	Wastegate	N/A
Cylinder-6	93094		

Form RS-062 New (July 2008)

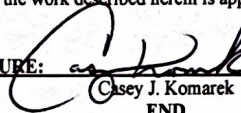
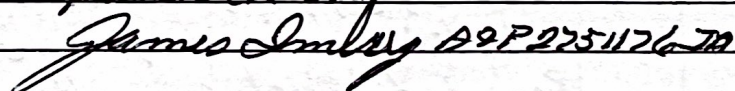
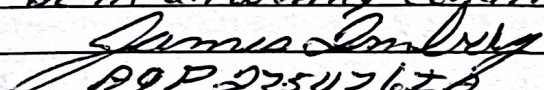
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					
					Engine Model: TCM IO-360-ES Engine S/N: 357499 Reg Number: N7724T Engine Entries Installed this engine T.C.M. IO-360-ES S/N 357499 after repair with 1003.0 TT on Cirrus Aircraft N7724T as per Cirrus SR20 AMM chapter 71. Performed engine Annual/100HR inspection as per Cirrus SR20 AMM chapter 5-10, 5-20 and 5-30. Researched airworthiness directives through ATP content revision 11/1/2010, all airworthiness directives are in compliance at this time. Drained engine perservative oil and serviced engine with 8 quarts of Phillips 20W50 Mineral oil, leak and operational check good. Removed, cleaned, inspected, gapped, tested, rotated and reinstalled spark plugs as per Cirrus SR20 AMM chapter 74 and Autolite ICA's. Removed and replaced induction air filter with new P/N BA-24 as per Cirrus SR20 AMM chapter 71-60. Checked Magneto to engine timing, timig checks good. Performed latest revision of SID 97-3 fuel pressure setups. Lubricated engine and propeller linkages as per Cirrus SR20 AMM chapter 12. Set engine takeoff and cruise RPMs as per Cirrus SR20 AMM chapter 61 and 76. Reinstalled engine reiff heater as per reiff installation instruction. Performed engine post maintenance and installation check as per Cirrus SR20 AMM chapter 5-30, leak and function check of engine good. I certify that this engine has been inspected in accordance with an annual/100HR inspection and has been determined to be in an airworthy condition. The airframe, engine, and/or propeller identified herein was inspected and repaired in accordance with the current Federal Aviation Regulations and in regards to the work listed above is approved for return to service as per those requirements. DATE: 11/02/2010 SIGNED:  CERTIFICATE NUMBER: AP3043502IA END
					Make: T.C.M. Model: IO-360-ES S/N: 357499 Reg #: N7724T Engine Entries: Performed engine Annual/100 HR inspection as per Cirrus SR22 AMM chapter 5-20, 5-30. Researched Airworthiness Directives through Triton Aviation Data Corp which is updated daily, all Airworthiness Directives are in compliance at this time. Drained engine oil and removed oil filter, cut open oil filter with no discrepancies noted, installed new Champion Oil filter P/N CH48108-1 and serviced engine with 8quarts of Phillips XC 20W50 oil, leak and function check good. Work performed as per Cirrus SR20 AMM chapter 12-10. Performed engine compression and boroscope inspections, no discrepancies noted on boroscope inspection, Master Orifice 46 psi, compressions are as follows: #1 70/80, #2 72/80, #3 70/80, #4 74/80, #5 72/80, #6 70/80, work performed as per TCM SB 03-3. Removed, cleaned, inspected, gapped, tested and rotated spark plugs as per Champion Service Manual AV-6, autolite ICA, and Cirrus SR20 AMM chapter 74, operational check good. Removed and replaced induction air filter with new P/N BA-24 as per Cirrus SR20 AMM chapter 71-60. Performed magneto to engine timing inspection, no discrepancies noted. Removed, cleaned, inspected and reinstalled fuel injection nozzles as per TCM position tuned fuel injection manual, leak check good. Checked fuel pressure setups referencing TCM SID 97-3 latest revision, leak check good. Tightened oil cooler shoe as per TCM IO-360 overhaul manual. I certify that this engine has been inspected in accordance with an annual/100HR inspection and has been determined to be in airworthy condition. The airframe, engine, propeller identified herein was inspected and/or repaired in accordance with the current Federal Aviation Regulations and in regards to the work described herein is approved for return to service as per those requirements. DATE: 12/06/2011 SIGNATURE:  CERTIFICATE NUMBER: AP3043502IA END



Date: 11/02/2010
 TT : 1003.0
 TSO: N/A
 Hobbs: 1003.0

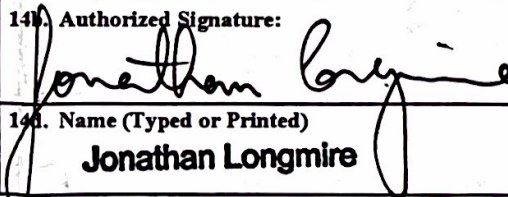


Date: 12/6/2011
 Hobbs: 1087.7
 ETT: 1087.7

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	→				
					Make: T.C.M. Model: IO-360-ES S/N: 357499 Reg #: N7724T  AIRCRAFT MAINTENANCE FLIGHT TRAINING ADVISORS Date: 01/08/2013 Hobbs: 1165.9 ETT: 1165.9 Engine Entries: Performed engine Annual/100 HR inspection as per Cirrus SR22 AMM chapter 5-20, 5-30. Researched Airworthiness Directives through bi-weekly issue 2012-26, all Airworthiness Directives are in compliance at this time. Drained engine oil and removed oil filter, cut open oil filter with no discrepancies noted, installed new Champion Oil filter P/N CH48108-1 and serviced engine with 8quarts of Aeroshell 15W50 oil, leak and function check good. Work performed as per Cirrus SR20 AMM chapter 12-10. Performed engine compression and boroscope inspections, no discrepancies noted on boroscope inspection, Master Orifice 46 psi, compressions are as follows: #1 69/80, #2 73/80, #3 70/80, #4 71/80, #5 70/80, #6 71/80, work performed as per TCM SB 03-3. Removed, cleaned, inspected, gapped, tested and rotated spark plugs as per Champion Service Manual AV-6, autolite ICA, and Cirrus SR20 AMM chapter 74, operational check good. Removed and replaced induction air filter with new P/N BA-24 as per Cirrus SR20 AMM chapter 71-60. Performed magneto to engine timing inspection, no discrepancies noted. Removed, cleaned, inspected and reinstalled fuel injection nozzles as per TCM position tuned fuel injection manual, leak check good. Checked fuel pressure setups referencing TCM SID 97-3 latest revision, leak check good. I certify that this engine has been inspected in accordance with an annual/100HR inspection and has been determined to be in airworthy condition. The airframe, engine, propeller identified herein was inspected and/or repaired in accordance with the current Federal Aviation Regulations and in regards to the work described herein is approved for return to service as per those requirements. DATE: 01/08/2013 SIGNATURE:  CERTIFICATE NUMBER: AP30435021A Casey J. Komarek END
5-6-13	1168.0				Installed all new RHM38E spark plugs Run up & ops check ok.  A9P275117670
12-1-13	1205.1				Performed Annual/100hour inspection per Cirrus SR22 5-20 & 5-30. Checked A.D.'s thru Bi-weekly 2013-24. Compression Check: #1 68 #2 70 #3 68 #4 72 #5 70 #6 65 Changed oil & filter. opened filter, Normal contamination serviced engine with 8qts Phillips Aeroshell 15W50 and a new CH48108 filter. Cleaned fuel screen, drained sumps. Checked mag to engine timing. Cleaned & tested plugs. Inspected Air filter. Checked and lubed controls. Engine mount, intake, & exhaust systems ok. Engine run up and leak check ok. I certify this engine has been inspected I.A.W. an Annual/100hour inspection and was determined to be in airworthy condition.  A9P275117625

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	→				
8-12-14 Hobbs	12	57.3			Changed oil & filter. opened filter, normal contamination. Serviced with 8 qts Peroshell 15W50 & a new CH48108-1 Filter. Run up & leak check OK. <i>James Smiley</i> AWP275276
12-24-14 Hobbs	12	94.3			Performed Annual/100hr. insp per SR20 PMM 5-20 & 5-30. Checked A.D.S. thru bi-weekly 2014-25. Compression Check: #1 ⁷⁰ / ₈₀ #2 ⁷² / ₈₀ #3 ⁷⁴ / ₈₀ #4 ⁷⁰ / ₈₀ #5 ⁶⁸ / ₈₀ #6 ⁷⁰ / ₈₀ . Changed oil & filter. opened filter, normal contamination. Serviced engine with 8 qts Peroshell 15W50 & a new CH48108 Filter. Cleaned fuel screen & drained all sumps. Installed a new B224 Air Filter. Checked mag to engine timing. Cleaned, gapped, tested, & rotated spark plugs. Checked induction & exhaust systems. Checked all accessories. Replaced brushes in alternator & greased needle bearing. Checked engine mounts, lubed and checked all controls. Engine run up, leak, & ops check good. I certify this engine has been inspected I.A.W. an Annual/100hr inspection and was determined to be in airworthy condition. <i>James Smiley</i> AWP2751176
6-3-15 Hobbs	13	47.5			Changed oil & filter. opened filter, Normal contamination. Serviced engine with 7 qts Peroshell 15W50 and a new CH48108-1 Filter. Run up & leak check OK. <i>James Smiley</i> AWP275176
11-18-15 Hobbs	13	96.0			Removed in op Zkra starter. Installed & hauled Hartzell starter P/N 646275-12 S/N H-P061563. Changed oil & filter. opened filter, normal contamination. Serviced engine with 7 qts Peroshell 15W50 & a new CH48108-1 Filter. Run up, leak & starter ops check OK. <i>James Smiley</i> AWP275176

Date		Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record	
Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins	
Brought Forward						4535 Airport Approach Rd. Duluth, MN 55811 (218) 727-2911 Cirrus Authorized Service Center Cessna Authorized Service Facility	
Date: 12/10/2015; Aircraft: N7724T; Type: SR20; S/N: 1266; Hobbs: 1400.00; Total Time: 1400.00						Type: IO-360-ES(6), S/N: 357499, Time: 1400.00, SMOH: 1400.00	
Shop Order #: 15-9327						Performed Annual / 100 Hr inspection of Engine IAW CDC AMM 5-20.	
Researched engine ADs thru current bi-weekly 2015-24.						Complied with A.D. 2008-11-18 by inspecting muffler per SB2X-78-07R1 (Next inspection due: 1500 Hours).	
Complied with SB2X-71-10R2						by installation of extra support (P/N: 27061-001) on oil breather line.	
Installed a new BA24 airfilter. Cleaned main fuel screen and drained all fuel sumps.						Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 60/80, #2 65/80, #3 65/80, #4 70/80, #5 65/80, #6 63/80, master orifice reading of 44/80. Work performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs. Checked magneto to engine timing IAW TCM overhaul manual. Checked condition of accessories, engine mounts, fluid lines, wires, and engine baffling. Replaced missing baffle springs and fasteners as needed. Inspected intake and exhaust systems.	
Lubed all engine controls. Cleaned and checked cowling. Performed engine fuel pressure setup IAW TCM SID 97-3F. Engine run up, ops, and leak check ok.						I certify that this Engine has been inspected in accordance with an Annual / 100 hr inspection and was determined to be in an airworthy condition.	
Signature: _____						1. Approving Civil Aviation Authority/Country: _____	
Date: 6-07-2016, Aircraft: IO-360-ES(6), S/N: 357499, Shop Order #: 16-9478, Changed oil and filter, no discrepancies.						2. AUTHORIZED RELEASE FAA Form 8130-3, AIRWORTHINESS FAA/UNITED STATES 4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY., MONTGOMERY, AL 36117 6. Item: 1 7. Description: STARTER 8. Part Number: 646275-1 9. MOD/NO: 646275-1 12. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM HARTZELL ENGINE. CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 11/12 WAS CARRIED OUT WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL. EASA 145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 145.145.4418. THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES IDENTIFIED ABOVE WERE MANUFACTURED IN CONFORMITY TO: 13. Certifies the items identified above were manufactured in conformity to: Hobbs 11-18-15 Installed	
Date: 12/16/2016; Aircraft: IO-360-ES(6), S/N: 357499; Shop Order #: 16-9666; Performed Annual / 100 Hr inspection of Engine IAW CDC AMM 5-20. Researched ADs and 11-18, Heat exchanger new right hand muffler (P/N: 27061-001). Changed engine oil and filter. Performed particulate inspection. Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 70/80, #2 65/80, #3 65/80, #4 70/80, #5 65/80, #6 63/80, master orifice reading of 44/80. Work performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs. Checked magneto to engine timing IAW TCM overhaul manual. Checked condition of accessories, engine mounts, fluid lines, wires, and engine baffling. Replaced missing baffle springs and fasteners as needed. Inspected intake and exhaust systems. Lubed all engine controls. Cleaned and checked cowling. Performed engine fuel pressure setup IAW TCM SID 97-3F. Engine run up, ops, and leak check ok.						I certify that this Engine has been inspected in accordance with an Annual / 100 hr. inspection and was determined to be in an airworthy condition.	
Signature: _____						1518.00; Engine - Type: SR20 and inspected oil filter, 12-10.	

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: H-P061563	
4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY., MONTGOMERY, AL. 36108 (1HZR769B)					5. Work Order/Contract/Invoice Number: W/O: M604750	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	STARTER ***** MOD/NO ***** END *****	646275-1 MOD/NO END *****	1	H-P061563	OVERHAULED	
12. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM HARTZELL ENGINE TECHNOLOGIES CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 1HZR769B. APPROVED FOR EXPORT THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES IDENTIFIED AS MOD/NO & ORIG. MFG. COMPLIES WITH PPS-9001 LATEST REVISION. OVERHAULED PER TCM SERVICE INSTRUCTION X30592, DATED 1/87.						
<i>Installed 11-18-15 Hobbs: 1396.0</i>						
13a. Certifies the items identified above were manufactured in conformity to:			14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12			
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No:
						1HZR769B
13d. Name (Typed or Printed):		13e. Date (dd/mm/yy):		14d. Name (Typed or Printed)		14e. Date (dd/mm/yy):
				Jonathan Longmire		30 JUN 2015
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. 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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Block 13a and 14a 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.						

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



4535 Airport Approach Rd. Duluth, MN 55811
(218) 727-2911
Cirrus Authorized Service Center
Cessna Authorized Service Facility

Date: 12/10/2015; Aircraft: N7724T; Type: SR20; S/N: 1266; Hobbs: 1400.00; Total Time: 1400.00; IO-360-ES(6); S/N: 357499; Time: 1400.00; SMOH: 1400.00

Shop Order #: 15-9327

Performed Annual / 100 Hr inspection of Engine IAW CDC AMM 5-20.

Researched engine ADs thru current bi-weekly 2015-24.

Complied with A.D. 2008-11-18 by inspecting muffler per SB2X-78-07R1 (Next inspection due: 1500.0 Hours).
Complied with SB2X-71-10R2

by installation of extra support (P/N: 27061-001) on oil breather line.

Installed a new BA24 airfilter. Cleaned main fuel screen and drained all fuel sumps.

Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 60/80, #2 65/80, #3 65/80, #4 70/80, #5 65/80, #6 63/80, master orifice reading of 44/80. Work performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs. Checked magneto to engine timing IAW TCM overhaul manual. Checked condition of accessories, engine mounts, fluid lines, wires, and engine baffling. Replaced missing baffle springs and fasteners as needed. Inspected intake and exhaust systems.

Lubed all engine controls. Cleaned and checked cowling. Performed engine fuel pressure setup IAW TCM SID 97-3F. Engine run up, ops, and leak check ok.

I certify that this Engine has been inspected in accordance with an Annual / 100 hr inspection and was determined to be in an airworthy condition.

Signature:

James Imberg A&P 2751176



4535 Airport Approach Rd. Duluth, MN 55811
(218) 727-2911
Cirrus Authorized Service Center
Cessna Authorized Service Facility

Date: 6/07/2016; Aircraft: N7724T; Type: SR20; S/N: 1266; Hobbs: 1446.90; Total Time: 1446.90; Eng IO-360-ES(6); S/N: 357499; Time: 1446.90; SMOH: 1446.90

Shop Order #: 16-9478

Changed oil and filter P/N CH-48108-1. Serviced with 7 quarts Aeroshell 15W50. Cut open and inspected filter, no discrepancies noted. Operational and leak checks good. All work done IAW CDC AMM 12-10

Signature:

James Imberg A&P 2751176



4535 Airport Approach Rd. Duluth, MN 55811
(218) 727-2911
Cirrus Authorized Service Center
Cessna Authorized Service Facility

Date: 12/16/2016; Aircraft: N7724T; Type: SR20; S/N: 1266; Hobbs: 1466.20; Total Time: 1466.20; Eng IO-360-ES(6); S/N: 357499; Time: 1466.20; SMOH: 1466.20

Shop Order #: 16-9650

Performed Annual / 100 Hr inspection of Engine IAW CDC AMM 5-20.

Researched ADs and MSBs thru current Bi-Weekly 2016-25-12.

Complied with

11-18, Heat exchanger, by performing repetitive inspection IAW SB2X-78-07R1. Cracks were noted. In new right hand muffler (P/N:11884-003) Next inspection due at 1566.2 Hrs.

Changed engine oil and filter, Tempest AA-48108-2. Serviced with 7 qts of Aeroshell 15W50 engine oil.

Performed particulate inspection on filter, checked good. Ops and leak checks good. All work IAW CDC

Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions

follows: #1 70/80, #2 65/80, #3 65/80, #4 68/80, #5 65/80, #6 50/80, master orifice reading of 44/80. V

performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs. Checked m

engine timing IAW TCM overhaul manual. Cleaned all fuel injectors. Installed a new BA24 air filter. Cle

fuel screen and drained all fuel sumps. Checked condition of accessories, engine mounts, fluid lines, w

engine baffling. Inspected intake and exhaust systems. Lubed all engine controls. Cleaned and checked

Engine run up, ops, and leak check ok.

I certify that this Engine has been inspected in accordance with an Annual / 100 hr. inspection and was

determined to be in an airworthy condition.

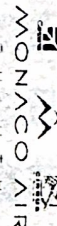
Signature:

James Imberg A&P 2751176

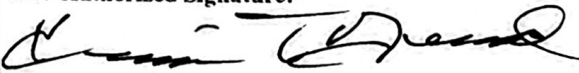
Signature:

James Imberg A&P 2751176

Date: 9/08/2017; Aircraft: N7724T; Type: SR20; S/N: 1266; Hobbs: 1518.00; Total Time: 1518.00; Engine - Type: IO-360-ES(6); S/N: 357499; Time: 1518.00; SMOH: 1518.00
Shop Order #: 17-9923
Changed oil and filter P/N AA48108-2. Serviced with 7 quarts Aeroshell 15W50. Cut open and inspected oil filter, no discrepancies noted. Operational and leak checks good. All work done IAW CDC AMM 12-10.



4535 Airport Approach Rd. Duluth, MN 55811
(218) 727-2911
Cirrus Authorized Service Center
Cessna Authorized Service Facility

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: Same as block 5	
4. Organization Name and Address: Horizon Aircraft Engine Services Inc., 8891 Airport Road NE, Minneapolis Mn. 55449					5. Work Order/Contract/Invoice Number: 32915	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	Continental IO360ES cyl. assy.	655479	1	AC03HB384	Overhauled	
12. Remarks: Overhauled complete cylinder valve and ring assembly in accordance with Continental Motors Overhaul Manual M-7 and Standard Practice Manual M-O. (servicable standard steel bore).						
13a. Certifies the items identified above were manufactured in conformity to:			14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12			
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.			
13b. Authorized Signature:		13c. Approval/Authorization No.:	14b. Authorized Signature:		14c. Approval/Certificate No.:	
					CRS YZ8R163C	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
			Kevin T. Dunrud		29-Oct-2020	
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. 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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a 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.						

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 →					



4535 Airport Approach Rd. Duluth, MN 55811
(218) 727-2911
Cirrus Authorized Service Center
Cessna Authorized Service Facility

Date: 3/16/2018, Aircraft: N7724T, Type: SR20, S/N: 1266 Hobbs: 1526 30, Total Time: 1526 30. Engine - Type: IO-360-ES(6), S/N: 357499, Time: 1526 30 SMOH: 1526 30

Shop Order # 18-10092

Performed Annual / 100 Hour inspection of Engine IAW CDC AMM 5-20.

Researched engine ADs thru current bi-weekly 2018-05.

Changed engine oil and filter. Tempest AA48108-2. Serviced with 7 qts of Aeroshell 15W50 engine oil.

Performed particulate inspection on filter, checked good. Ops and leak checks good. All work IAW CDC AMM.

Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 62/80, #2 60/80, #3 64/80, #4 64/80, #5 64/80, #6 50/80, master orifice reading of 43/80. Work performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs.

Performed 500 hour magneto inspection on both magnetos IAW 4300 / 6300 Series Magneto maintenance and overhaul Manual L-1363F Sections 3.3, 5.0, 6.0, and 7.0. Replaced the Points, brushes, Cotter pin, and drive spring in impulse coupling. Reinstalled mags using new drive bushings and gaskets. Engine run up and mag check ok.

Left Magneto: Champion 6314 S/N: 10040756

Right Magneto: Champion 6314 S/N: 10040757

Installed a new BA24 air filter. Cleaned main fuel screen and drained all fuel sumps. Checked condition of accessories, engine mounts, fluid lines, wires, and engine baffling. Inspected intake and exhaust systems. Lubed all engine controls. Cleaned and checked cowling. Engine run up, ops, and leak check ok.

I certify that this Engine has been inspected in accordance with an Annual / 100 hr inspection and was determined to be in an airworthy condition.

James Jones
AOP 2751176 EA

Date: 04/03/2019 Engine: IO-360-ES Tach: 1559.7 Cyl#1 76/80 Cyl#2 74/80 Cyl#3 74/80 Cyl#4 76/80 Cyl#5 70/80 Cyl#6 68/80 Performed Annual inspection IAW CDC AMM 5-20 & FAR Appendix D. Changed oil & Filter AA48108-2 & 7qts Aeroshell 15W50. Cut open filter (no contaminants noted) Installed new Air filter BA24. Researched AD's & SB's thru 2019-06. I certify that this Engine has been inspected IAW an Annual Inspection And determined to be in airworthy condition.

Signature

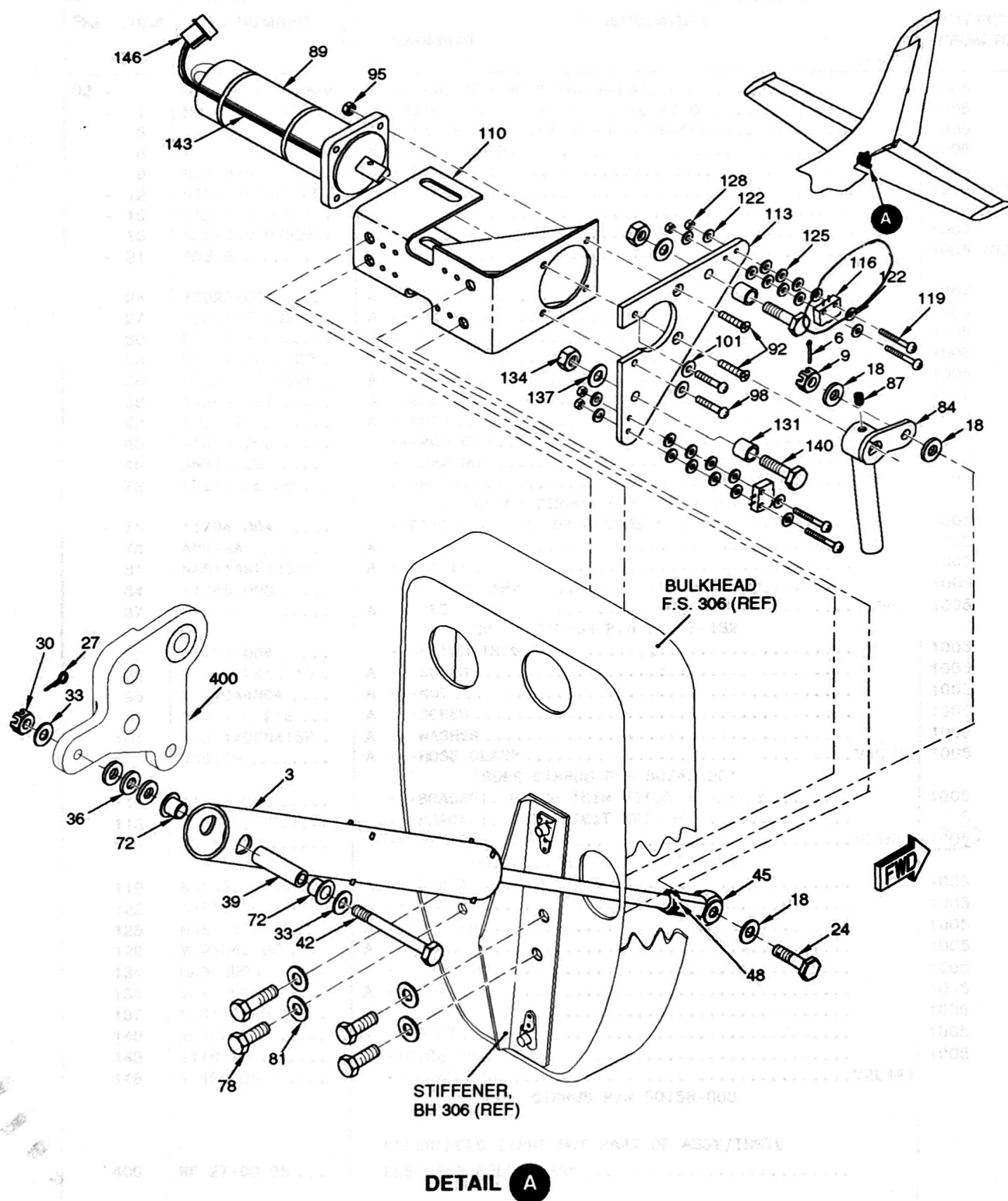
Brennan Hawkins A&P 3635390 IA

Date: 11/6/2020 Engine: IO-360-ES Tach: 1601.4 Cyl#1 70/80 Cyl#2 70/80 Cyl#3 70/80 Cyl#4 72/80 Cyl#5 66/80 Cyl#6 20/80 Performed Annual inspection IAW CDC AMM 5-20 & FAR Appendix D. Removed Cyl #6 due to low compression, Replaced with OH PN#655479 (see attached 8130) IAW SB96-7C. Changed oil & Filter AA48108-2 & 7qts Aeroshell 15W50. Cut open filter (no contaminants noted) Installed new Air filter BA24. Replaced oil pressure Sensor wit new PN# 12635-004 Researched AD's & SB's thru 2020-20.

I certify that this Engine has been inspected IAW an Annual Inspection And determined to be in airworthy condition.

Signature

Brennan Hawkins A&P 3635390 IA



SR2_PC27_1034

Figure 02
Pitch Trim System Installation

CIRRUS Design
Illustrated Parts Catalog



FIG	ITEM	PART NUMBER	SYMBOL	NOMENCLATURE	EFFECT FROM TO	UNITS PER ASSY
				12345678		
				VENDOR		
02	-	RF 27-00-01 NHA		FLIGHT CONTROLS INSTALLATION	1005	NP
	1	NO PART NUMBER		·PITCH TRIM SYSTEM INSTALLATION	1005	NP
	3	10680-003		·PITCH TRIM CARTRIDGE ASSEMBLY	1005	1
	6	MS24665-132 ...	A	·COTTER PIN	1005	1
	9	MS17826-3	A	·NUT	1005	1
	12	NAS1149F0316P .	A	·WASHER	1005 1006	1
	15	NAS1149F0332P .	A	·WASHER	1005 1006	2
	18	NAS1149F0332P .	A	·WASHER	1007	3
	21	AN3-6	A	·BOLT	1005 1006	1
				FOR SPARES USE P/N 13025-001		
	24	13025-001	A	·BOLT	1007	1
	27	MS24665-132 ...	A	·COTTER PIN	1005	1
	30	MS17826-3	A	·NUT	1005	1
	33	NAS1149F0332P .	A	·WASHER	1005	2
	36	NAS1149F0363P .	A	·WASHER	1005	3
	39	11268-001	A	·BUSHING	1005	1
	42	AN3-17	A	·BOLT	1005	1
	45	11314-003		·ROD END	1005	1
	48	AN315-3R		·JAM NUT	1005	1
	72	TFI-0506-06 ...		·BUSHINGVOJFH8	1005	2
				ORDER CIRRUS P/N 50200-001		
	75	11794-004		·PITCH TRIM MOTOR ASSEMBLY	1005	1
	78	AN3-4A	A	·BOLT	1005	4
	81	NAS1149F0332P .	A	·WASHER	1005	4
	84	11766-003		·OFFSET ARM	1005	1
	87	92695A132	A	·SET SCREWV39428	1005	1
				ORDER CIRRUS P/N 50577-132		
	89	11797-004		·PITCH TRIM MOTOR	1005	1
	92	NAS514P440-10 .	A	·SCREW	1005	2
	95	MS21044N04	A	·NUT	1005	4
	98	MS35206-218 ...	A	·SCREW	1005	2
	101	NAS1149FN416P .	A	·WASHER	1005	2
	107	10020H	A	·HOSE CLAMPV1CY13	1005	1
				ORDER CIRRUS P/N 50743-201		
	110	11793-003		·BRACKET, PITCH TRIM MOTOR ASSEMBLY	1005	1
	113	10684-003		·BRACKET, TRIM LIMIT SWITCH	1005	1
	116	B3-12222		·LIMIT SWITCHV21649	1005	2
				ORDER CIRRUS P/N 50127-001		
	119	MS35206-209 ...	A	·SCREW	1005	2
	122	NAS1149FN216P .	A	·WASHER	1005	4
	125	NAS1149FN232P .	A	·WASHER	1005	8
	128	MS21042-02	A	·NUT	1005	2
	131	NAS43DD3-20 FC		·SPACER	1005	2
	134	MS21083N3	A	·NUT	1005	1
	137	NAS1149F0332P .	A	·WASHER	1005	1
	140	NAS6203-7	A	·BOLT	1005	1
	143	11792-002		·WIRE HARNESS	1005	1
	146	1-480305-0		·CONNECTORV2L441		
				ORDER CIRRUS P/N 50158-003		
				REFERENCED ITEMS NOT PART OF ASSY/INSTL		
400		RF 27-00-05 ...		ELEVATOR BELL CRANK		

- ITEM NOT ILLUSTRATED

A --- ATTACHING PARTS

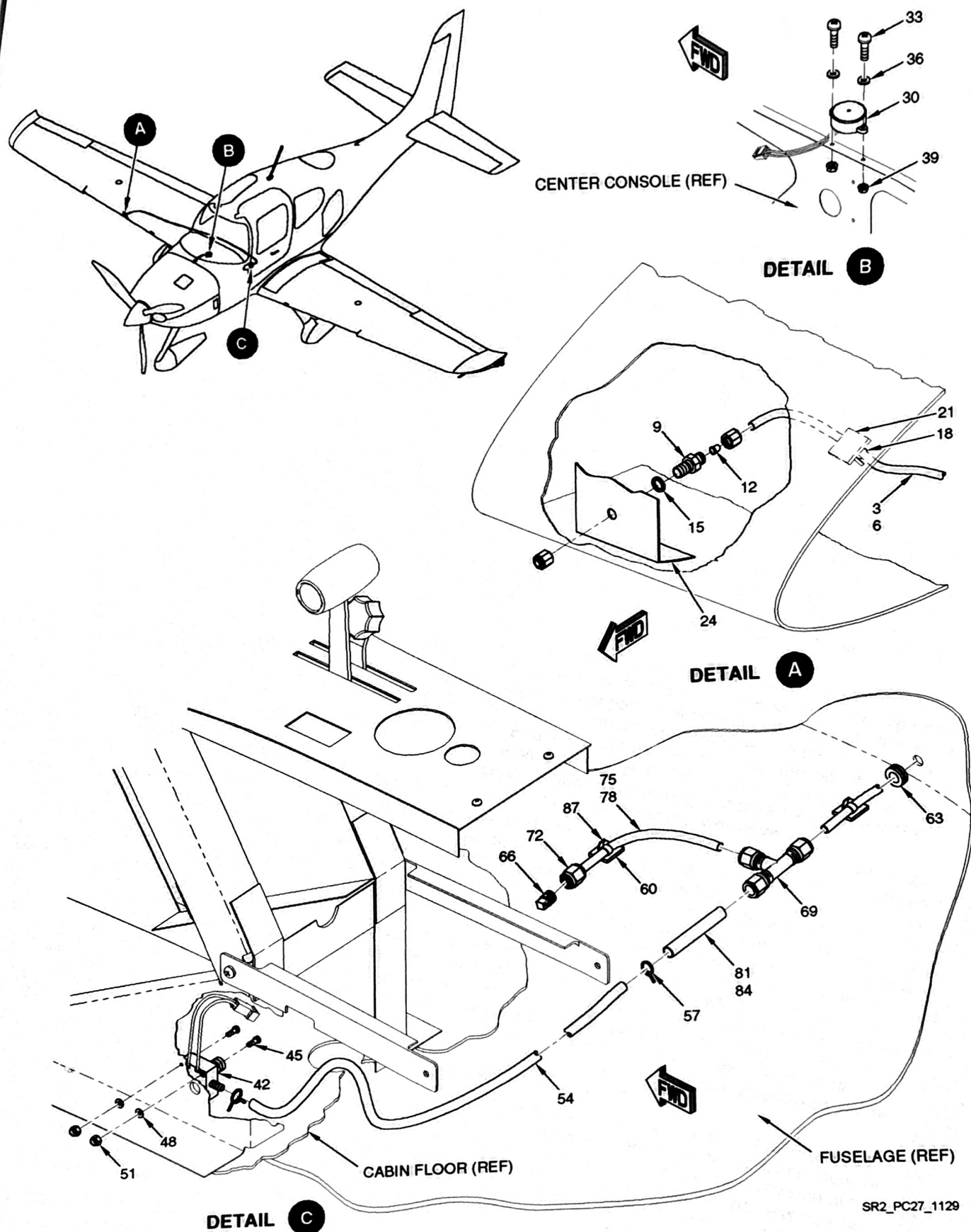
Cirrus Design
Illustrated Parts Catalog

CIRRUS
SR20

FIG	ITEM	PART NUMBER	S Y M B O L	NOMENCLATURE	EFFECT FROM TO	UNITS PER ASSY
				12345678		
				VENDOR		
01	1	NO PART NUMBER		ELEVATOR SYSTEM CABLES	1005	NP
	3	13036-002		·CABLE ASSEMBLY, ELEVATOR, RIGHT	1005	1
	6	13036-003		·CABLE ASSEMBLY, ELEVATOR, LEFT	1005	1
	9	13036-001		·CABLE ASSEMBLY, ELEVATOR, AFT	1005	1
	12	MS21251B5L	A	·TURNBUCKLE BODY, CLIP LOCKING	1005	2
	15	MS21256-2	A	·CLIP, LOCKING, TURNBUCKLE	1005	4
	18	11167-001	A	·CABLE STOP	1005 1090	2
	21	11167-002	A	·CABLE STOP	1091	2
	24	MS35206-218 ...	A	·SCREW	1005	2
	27	AN960-4	A	·WASHER	1005	2
	30	MS21044N04	A	·NUT	1005	2
				REFERENCED ITEMS NOT PART OF ASSY/INSL		
400		RF 27-00-02 ...		FLIGHT CONTROL INSTALLATION		
401		RF 27-20-02 ...		RUDDER/ELEVATOR PULLEY GANG INSTALLATION		
402		RF 27-00-05 ...		FLIGHT CONTROLS INSTALLATION - EMPENNAGE		

- ITEM NOT ILLUSTRATED

A --- ATTACHING PARTS



SR2_PC27_1129

Figure 01
Stall Warning System



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

NEW ENGINE WARRANTY

Each new aircraft engine shipped from Teledyne Continental Motors' plant on or after August 1, 1999 is warranted as follows:

1. (a) For a period of twelve (12) months or one thousand (1000) hours of operation, whichever occurs first, after the warranty activation date Teledyne Continental Motors (TCM) will at its option repair or replace on an exchange basis any engine, component or part manufactured or supplied by it which within the applicable twelve (12) month or one thousand (1000) hour period is returned to a TCM representative authorized to handle the engine covered by this warranty and which upon examination is found to the satisfaction of TCM to be defective in material or workmanship. The warranty activation date is the date the engine is first operated for any use or the 180th day after TCM's invoice date, whichever occurs first.

(b) TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 1(a) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements, when coordinated through an authorized TCM representative. The amount of repair and replacement labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstances of identifying the need for such repairs or replacements, but in no event will the "troubleshooting" costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.

(c) TCM will pay transportation costs in connection with the repair or replacement of any engine, component or part found to the satisfaction of TCM to be defective in material or workmanship under paragraph 1(a) of this warranty. The engine, component or part must be shipped prepaid to the repair facility designated by TCM. Transportation cost reimbursement for engines will be the actual surface freight charge or \$500.00, whichever is less. Engines must be described on the bill of lading as follows: "Internal combustion engine, other than Radial Cyl RVNX \$5.00". Transportation cost reimbursement for components or parts will be the actual surface freight charge for shipment of the component or part or the currently published UPS surface rate schedule, whichever is less.
2. (a) After the expiration of the applicable twelve (12) month period described above and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will, except as excluded below, at its option repair or replace on an exchange basis any component or part manufactured or supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship. During this period TCM reserves the right at its option to replace the defective component or part with either a new or rebuilt component or part. During this period TCM will not assume any responsibility for the repair or replacement of engine accessories, i.e. parts which have been purchased by TCM from a manufacturer as a complete and finished unit and included in the assembly of an engine without altering the unit, including, but not limited to, Unison® magnetos and harnesses, Precision Airmotive Corporation® carburetors and fuel controls, ElectroSystems® starters and alternators and AlliedSignal® and Consolidated Fuel Systems® turbochargers. During this period accessories will be subject to such warranty coverage as may be provided by their manufacturer.

(b) In the event that TCM elects to repair in the field, rather than replace, any component or part under paragraph 2(a) of this warranty, TCM will pay labor costs for the repair of the component or part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. TCM will not assume any responsibility for labor costs for the removal and / or re-installation of the component or part, costs associated with "troubleshooting" or any other labor costs associated with repairs or replacements under paragraph 2(a) of this warranty.

3. The coverage under this warranty applicable to cylinder assemblies and related parts shall be subject to the terms, conditions and limitations set forth in the applicable TCM TopCareSM Cylinder Warranty.
4. Repair or replacement of any engine or part under this warranty will not extend the period of warranty coverage set forth above.
5. This warranty applies only to engines in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer Approval have been used and nothing contained herein should be construed as a warranty by TCM of any engine or part not manufactured or supplied by TCM. TCM accepts no responsibility for the failure of any engine or part which it does not manufacture or supply or damage resulting from such failure.
6. This warranty applies only to engines which have been installed, inspected and maintained in accordance with the instructions for continued airworthiness, including compliance with all applicable service bulletins issued by TCM, the aircraft manufacturer or any accessory or component manufacturer. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and the logbook must accompany any engine being returned for warranty consideration.
7. This warranty does not apply to any engine, component or part manufactured or supplied by TCM which (1) has been subject to misuse, neglect or accident; (2) has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine; (3) has been operated inconsistent with TCM and aircraft manufacturer recommendations and limitations (such as, but not limited to engine RPM, temperature, manifold pressure, fuel flow and proper system adjustment) or (4) has been changed from its original FAA certificated configuration.
8. TCM will not be responsible for repair or replacement of any engine, component or part damaged or worn as a result of corrosion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives or installation of parts, components or accessories that alter the engine's original type design.
9. The provisions of this warranty do not apply to normal maintenance service (such as engine tune-ups, adjustments, inspections, engine or component overhaul resulting from time between overhaul (TBO) recommendations, etc.) or to the replacement of normal service items (such as spark plugs, filters, hoses, belts, etc.).
10. TCM reserves the right to change any engine or part specifications or prices without incurring any responsibility with regard to engines or parts previously sold or replaced.
11. THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TCM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY ENGINE OR PART, ARISING OUT OF THE FAILURE OF ANY ENGINE OR PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Mobile, Alabama 36601

X30681 8/99

©1999 Teledyne Technologies Incorporated

Printed in U.S.A.

NORTHPOINT

16384 Airport Road
Brainerd, MN 56401
(218) 829-3398

Engine Service and Maintenance

Record

Inspections,

Date: 12/31/2020; Aircraft: N7724T; Type: Fixed Wing; Total Time: ¹⁶⁰²1561.30; Engine - Type: IO-360-ES6B, S/N: 357499, Time: 1561.30

Shop Order #: SO-20-1446

1. Replaced all 12 rocker cover gaskets IAW Continental Standard Practices Manual M-0. No leaks noted.
2. Removed propeller, replaced alternator belt, reinstalled propeller and torqued nuts to specified torque. Installed new alternator belt and set correct tension. All work performed in accordance with Cirrus AMM Ch. 61-10 for Propeller and Ch. 24-30 for alternator belt. No leaks noted.
3. Cleaned fuel injectors with Hoppy's cleaning solution, rinsed with Isopropyl and reinstalled in engine. All work performed IAW Continental Fuel Injector nozzle Maintenance Manual. No leaks noted.
4. Replaced 2 adel clamps on #6 induction tube.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired, inspected IAW current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this facility under the shop order above.

Technician's Name: William Smith

Signature: [Signature]

NorthPoint Aviation C.R.S. 6DVR982C

Bode Aviation



1260 W Navajo ST Hanger 6, Farmington NM 87401

ENGINE

4/19/2021 N47724T Hobbs; 1639.8

Re seal pushrod tubes # 2 Cylinder/ 2 P/N's 641607 Seal. 2x P/N 630286, O-ring. Re seal Rocker cover's Cylinders #2,4,3 P/N x 5 6557040. R&R oil filler cap seal 2x P/N 642892, R&R dip stick O-ring. Re seal R/H brake cylinder bleeder housing, Bleed and refill reservoir. Leak and operational checks were good.

Sean P. Allyn 3939887 A&P [Signature]

Date: 5-14-2021

FHM: 1643.7

ETT: 1643.7

TSMO: 1643.7

Black Bart Aviation

5030 Bellflower Circle

Farmington, NM 87401

N7724T Engine

Changed oil and oil filter, added 6 ½ qts of Phillips 20W50, installed filter P/N Ch48108-1. This engine is airworthy at this time. Limited to work performed.

[Signature]

Bart A. Sisson

A&P 3168996

Date: 7-2-2021

FHM: 1654.2

ETT: 1654.2

TSMO: 1654.2

Black Bart Aviation

5030 Bellflower Circle

Farmington, NM 87401

N7724T Engine

Replaced crush gasket for oil pressure regulator, P/N MS-35769-18, leak check good. This engine is airworthy at this time. Limited to work performed.

[Signature]

Bart A. Sisson

A&P 3168996

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	→				

Nov 2021
Annual

N7724T

✦ SANTA FE

AERO SERVICES

AVIONICS • MAINTENANCE • SALES
FAA Approved Repair Station PUVR537X

Engine Log

109 Aviation Drive • Hangar 1 • Santa Fe NM 87507

Date: 11/22/2021	Make: TCM	Model: IO-360-ES	S/N: 357499
Hobbs: 1675.6	ENG: 1675.6		

C/W 100 HR. INSPECTION IN SUPPORT OF AN ANNUAL INSPECTION IAW CIRRUS AMM 05-20, SCHEDULED INSPECTION REPORT AND TCM MM. RESEARCHED AD'S THROUGH 11/22/2021, DRAINED ENGINE OIL, CUT OPEN FILTER, NO DEFECTS NOTED, INSTALLED NEW OIL FILTER, P/N CH48108-1 AND SERVICED WITH 7 QTS. OF X/C OIL. COMPRESSIONS ARE AS FOLLOWS: #1 65/80 #2 65/80, #3 73/80 #4 72/80, #5 65/80 #6 61/80. INSTALLED OVERHAULED OIL COOLER P/N P/N- 646880 AND NEW GASKET. INSTALLED ALL NEW SPARKPLUGS, P/N RHB38E. REMOVED LH MAGNETO AND INSTALLED NEW GARLOC SEAL TO PREVENT OIL LEAKING. REINSTALLED, TORQUED AND SAFETIED AS REQUIRED.

GROUND RUN, LEAK AND OPERATIONAL CHECKS SATISFACTORY.

This Engine has been inspected IAW an Annual Inspection and has been determined to be in airworthy condition and is approved for return to service.

Arturo Torres
A&P2834035

Work accomplished at Santa Fe Aero Services, LLC. Reference work order # SO-21-0416

September 16, 2022 Hobbs: 1714.1
N7724T Cirrus SR20 S/N: 1266
Continental IO-360-ES
ENGINE



Drained oil and removed oil filter. Cut open oil filter – no defects noted. Serviced engine with 8 quarts Phillips XC 20W-50 cil. Installed new oil filter P/N CH48108-2. Run up for ops and leak check good. This engine is approved for return to service with respect to the above work performed.

Maria Vianco A&P#4522241 *Maria Vianco* WO: 9650

REG #	N7724T	DATE	12/02/2022
MODEL	SR20	TACH/HM	1728.1
S/N	1266	TTAF	1728.1
ENGINE	IO-360-ES (6B)	ENGINE S/N	357499
TTE	1728.1		

Completed a 100hr/annual inspection IAW 14CFR43 Apdx D. Cleaned and gapped spark plugs. Compression: 1-77/80 2-77/80 3-78/80 4-77/80 5-77/80 6-76/80. Removed forward lower through bolt, cleaned, reinstalled with sealant. Changed oil and filter. Serviced with 7 qts of PHILLIPS 20W50. Verified magneto timing to engine. Verified ADs through T-Data 2022-24. I certify that this engine has been inspected in accordance with a 100/annual inspection and was determined to be in airworthy condition.

[Signature] AP 2676212

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 →					

May 31, 2023 Hobbs: 1767.8
N7724T Continental IO-360-ES S/N: 357499
ENGINE



Drained oil, took sample, and removed oil filter. Cut open oil filter – no defects noted. Serviced engine with 8 quarts Phillips XC 20W-50 oil. Installed new oil filter P/N CH48108-1. Run up for ops and leak check good. This engine is approved for return to service with respect to the above work performed.

Maria Vianco A&P#4522241 Maria Vianco WO: 9847

November 20, 2023 Hobbs: 1809.4
N7724T Continental IO-360-ES S/N: 357499
ENGINE



Drained oil and took sample. Removed and cut open oil filter – no defects noted. Serviced engine with 8 quarts Phillips XC 20W-50 oil. Installed new oil filter P/N CH48108-2. Run up for ops and leak check good. This engine is approved for return to service with respect to the above work performed.

Maria Vianco A&P#4522241 Maria Vianco WO: 9999

REG #	N7724T	DATE	01/07/2024
MODEL	SR20	TACH/HM	1819.0
S/N	1266	TTAF	1819.0
ENGINE	IO-360-ES (6B)	ENGINE S/N	357499
TTE	1819.0		



Completed a 100hr/annual inspection IAW 14CFR43 Apdx D. Cleaned and gapped spark plugs. Compression: 1-76/80 2-77/80 3-76/80 4-77/80 5-75/80 6-76/80. Changed oil and filter. Serviced with 8 qts of PHILLIPS 20W50 and one pint of Camguard. Verified magneto timing to engine. Verified ADs through T-Data 2023-26. I certify that this engine has been inspected in accordance with a 100/annual inspection and was determined to be in airworthy condition.

[Signature]

AP 2676212

ENGINE MODEL:
IO-360-ES(6B)
ENGINE S/N: 357499
REG. NO: N7724T
WORK ORDER: 3747

CFD Integration, LLC dba CFDI Aero
5088 Sabre Lane
Denton, TX 76207
Phone: 940-442-5232

DATE: 4/7/2025
A/C TSN: 1911.5
ENG TT: 1911.5
TACH: 1911.5

Engine Entries

(2) This engine was inspected in accordance with FAR 43 appendix d. The following maintenance was performed.... (4) Drained oil through 1000 micron screen and inspected for debris per CSB07-01A: none found. Removed filter, cut and inspected for metal: none found. Installed new filter P/N AA48108-2. Serviced engine with 8 quarts of Phillips 20W50 Mineral oil. Washed engine, ground ran, ops check, and leak check satisfactory at this time.... (5) Removed, cleaned, gapped, tested and installed all spark plugs.... (6) Removed, cleaned and reinstalled all fuel nozzles.... (15) Replace all cylinders with new assemblies. Checked all rings gaps and balance of piston, rings and pin combination. Installed all new P/N 629690 wrist pins in every piston.... (16) Replaced all lifters with new Superior SA633106 lifters.... (20) I certify this engine has been inspected in accordance with a 100 hour/Annual inspection and has been determined to be in an airworthy condition at this time. No other new or recurring AD's due at this time.

DATE: 4/7/2025

SIGNED: [Signature]

Work Order: 3747

Tim Felleg, A&P: IA 2834940

Printed by EBis 3 (datcomedia.com)