## **Teledyne Continental Motors**

## **ENGINE LOG BOOK**



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

4 15 ×

This engine model <u>10520BB52B</u>, Serial No. <u>580077</u> was manufactured on <u>//-28-99</u> by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.

TELEDYNE CONTINENTAL MOTORS

"An Allegheny Teledyne Company

30838292108 5788 5449 385-5170

INSTALLI AND BOL ANNUAL FORM INS OSERVICE LEAK CH	TACH: ED FACT TS OPER INSPECTION	1067. ORY N ATION	Hrs.  BEECH 1  A/C TT	Min.	Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
4/26/2000 INSTALLI AND BOL ANNUAL FORM INS OSERVICI LEAK CH	TACH: ED FACT TS OPER INSPECTION	1067. ORY N ATION	4 A/C TT	MODE	
_ '	ECKED S	N GUII NE WIT SATISF	VAL CHE PER RAY DE PN 98 TH 12 QT ACTORY	T: 1125 GINE M CKED THEOI -32227 S AER V. NO (	L F33A SN: CE-1154 REG # N3077H  4 ENGINE SN: 580077 TSN: 0.0  ODEL IO-520 BB 52B SN: 580077, WITH NEW MOUNTS  AND SET IAW BONANZA MM. COMPLETED AN  N AIRCRAFT BONANZA 100-HR OR ANNUAL LONG  H. TCM MSB 00-5 NOT APPLICABLE BY ENGINE S/N.  OSHELL 100 MINERAL OIL. OPERATIONAL AND  OTHER APPLICABLE AD'S DUE THIS DATE THEU BY-  16618. APPROVED FOR RETURN TO SERVICE  Signed  Certified Repair Station #BWVH67 2C  RAYTHEON AIRCRAFT SERVICES, INC.  P. O. Box 9162 WICHITA, KANSAS
_				1. 41 1	
06/07/01	44.4		44.4		CHECKED COMPRESSIONS - All GOOD CHECKED MAKE TIMING
					CLOANED GAPPED AND ROTATED SPANK pertis low-up
					Awn ops checks Goods. WO ( Scot D. Hundless ATX6592
					apitol Aviation —————
			1761 V	Vest K	Learney Lincoln NE 68524
N	N3077H				6/7/2001
Meter 1111.0 Eng TT 43.6				ACTT 1169	
	ng 11 43.	U			Prop TT 43.6
I c	certify that	this en	gine has	been in:	spected in accordance with an annual inspection and
				•	
			,	1	Vohnout AP5066494131A
			10	- l	J. Yokan
					<del></del>
		_			
	1				76.4 76.4
9 July 2002	N3077H		Tach -	1143.8	AFTT - 1201.8 Eng. TT - Prop. TT -
Cleaned, tested	and rotate to the control of the con	ed filte ted plu ollowin	r. No co gs. Che ig the sc	ontamu cked ti cope ar	compression test: 1. 66/80 2. 64/80 3. 61/80 4. 65/80 5. 65/80 6 nation found. Installed new CH48109 filter, 11 qts. Phillips 20W ming. Washed engine and lubed controls. This engine was inspected detail of FAR 43 app. D and Beech service manual and is returned.

ord

Annual Inspection complied with this date. Compression test: 1. 71/80 2. 70/80 3. 70/80 4. 70/80 5. 72/80 6. 71/80. Drained oil and removed filter. No contamination. Installed new CH48109 filter and 11 qts. 20W50 oil. Washed engine and lubed controls. Removed, cleaned, rotated, and tested spark plugs. This engine was inspected IAW an Annual Inspection following the scope and detail of FAR 43 app. D

tions,

## CENTRAL CYLINDER SERVICE INC. AIRCRAFT ENGINE REBUILDERS Certified Repair Station MY2R022L

and Beech service manual and is returned to service. The July IA504028835

6315 Lindbergh Drive • Riverfront Industrial Park • Omaha, NE 68110

Continental IO 520 BB S/N 580077 TT 137./ 9-9-04
Prop strike inspection, repair and test run. Disassembled above engine, cleaned and inspected as necessary for sudden stoppage damage. Magnafluxed misc. steel parts. Magnafluxed crankshaft. Zyglo inspected crankcase. Reassembled engine using new cam and crank gear bolts, rod nuts and bolts, counterweight and crankshaft bushings, pins, plates and snaprings and necessary gaskets and seals. Reinstalled cylinders. Installed new Slick magnetos. No other cylinder work or accessory work done. Engine test ran and found airworthy. All work accomplished in accordance with Continental Service Publications. Details of work are on file at this facility W.O. 12016.

for CRS MY2RO22L

Dec 2005	Tach-	1204.	5 AF	11-12	62.5 Eng. TT - 137.1 Prop. TT - 0.0
					sent to Central Cylinder for toar-down
					using existing mounts, hours, etc. Installed
		1	1		ther and 12 gts. 20w50 Phillips oil Sontables
					e element. This engine was inspected in
	accor	danc	e wit	h an	annual Inspection following the scope and
					D and Beech maintenance manual and is
	retur	ned	to se	vice.	Ronald R. Gray \$450402835
					<u> </u>
17eb 2007	Tack -	1325.	7 AF	T-138.	3.7 Eng. T. 258.3 Prop T-121.2
	annu	al s	rspection	comp	Will with this date. Comp. Test. 10 11/80 10 71/80 10 70/80
	@ 22/	80 6	11/80	@13/8	O. No. Oil change. Checked all controls and bebel.
	delhe	d in	tuke o	nd ex	Laurt systems. Chaned tested notated plugs.
					<b>A</b>
		Ar	inual Insp <del>Scope an</del>	ection C\	W Following Knelel N. Aug
		a	ppt D and	returned	to service SASO 407/8070
		,	tonalo R.	uray IA5	04028835

				0'	Engine Service and Maintenance Record
Date	Total	Time	Time Since Last Overhaul		Installations, Inspections, Airworthiness Directives, Special Inspections,  Installations, Inspections, Airworthiness Directives, Special Inspections,  Installations
					Installations Inspections, All Worthiness 2 to 1
	Hrs.	Min.	Hrs.	Min.	Modifications and Service Bulletins
Brought Forward		-			Removed # 4 cylinder & sent to Central Cylinder
28 Nov 2007	Tack	- 13	97.4		Removed # 4 cylinder & may aushits.
2.0					for repairs. Reinstalled using new gasting
					fraund vil and refilled with Cars 400 100
	+				100 mineral oil- Gonald. R. May
	+	_			19504018835
	-	-			
					DETT-1462.3 ETT-336.9 PT-199.8
115ep 2008	Tack	1-14	104 .	3 /	FTT-1462.3 ET1-336.4 FI
,	anne	al d	Inspect	ion C	implied with this date. Removed her Primitable
	cul	nder	and	sen	t to Central Cylinder for regard. Terman
	in the		d neu	ran	het and rings. Drained oil and nomen
	1 H	1	Anoto	11:0	12 gt 48109-1 bilter and 12 gt A15
	free	11.0	- A	-1	Testalled all your RHB32E sparts plus
	100	mus	rerey	oce.	I a led Lunerted estaurt and into
	Jung	rectes	all	cour	Annual Inspection CW Following
	sept	ems	Cher	red	All waring . (Nethod Scope and Detail of FAR 43  All the deal of ADE appt D and returned to service
	me	neti	- tu	ungo	Multied and Affix Ronald R. Gray IA504028835
	- '		<u> </u>	9	2 A Hines
		1//	IM	gla	11. Wag
		0			
10 C 200G	70.1	- 14	21.0	Dear	no vil and removed filter. No contamination
10 Sap 2009	1	0 1	1.000	unide.	11 ots Als w100 and new CH 48109-1 Alter.
	Julen	1. 14	marie of the second	- Will	10 50402 = 825
	-		ph		7417 5048/8/73
		111	20 6	6	1527 8 CT 417 4 Pros T. 275 3
13 Nar 09	lack	- 14	19.8	7/-	1537. 8 ETT-412.4 Prop TT-275.3
	ann	unl	Impe	ction	complied with this date. Compression chee
	@ 72	180	Ø 71	180 0	71/80 @ 70/80 @ 12/80 @ 71/80. Chuked
	tim	inge	In	ectel	induction & aphawet systems. Inspected
	all.	enace	ne con	trok	Anspected engine electrical system &
	UND	inc	Cler	neel	tested gapped and rotated plugs. This
	0000	Ų		ina	ected TAW an annual Ampection ofw
	ung	OF.	0.11	miles	the Name of ditill the GOO 43
	This	Hare	Joell	a C	enrie. My LASONOIS835
	is	ulur	nec	0 1	enra. // / / / 3 2504028835
	-				
1	200				

Reg# N3077H Date: 24Jan2011 W.O. 4434 Aircraft Total Time: 1602.0 TSOH- N/A S/N-580077 TT-476.6 Continental IO-520BB-52B TSOH- N/A TT-339.5 McCauley 3A32C406-D S/N-040810 - Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR, Part 43, Appendix D. Br - Removed left hand exhaust manifold and installed overhauled unit p/n 35-950005-37 from Aerospace Welding. Installed with 3 new gaskets p/n 652458 and 12 new nuts p/n MS20500-428. Adjusted fuel metering unit linkage to richen mixture at idle. Removed spark plugs, cleaned, tested and rotated. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. Drained oil and removed filter. Installed new CH48109-1 oil filter, 10 qts. 20W50 Phillips oil and 2 cans avblend oil additive. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy condition. Ronald R. Gray AP504028835IA Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173 Tach: 1559.6 Date: 1Mar2012 W.O. 4825 Reg# N3077H Aircraft Total Time: 1617.6 TSOH- N/A TT- · 92.2 Continental IO-520BB-52B S/N-580077 McCauley TT-355.1 TSOH- N/A 3A32C406-D S/N-040810 - Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR, Part 43, Appendix D. Comp: 6 45 64 69 64 69 68 68 63 68 - Removed spark plugs, cleaned, tested and rotated. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. Drained oil and removed filter. Installed new CH48109-1 oil filter, 11 qts. 20W50 Phillips oil and 2 cans avblend oil additive. Removed inoperative alternator and installed new Plane Power p/n C28-150 s/n 150-113929. Test ran aircraft for ops check, no discrepancies noted. This Part 43. Appendix D and was found to be in an airworthy condition.

Ronald R. Gray AP3557843IA Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173 Date: 12Apr2013 W.O. 5247 Reg# N3077H Aircraft Total Time: 1655.2 1O-520BB-52B S/N-580077 Continental TT- 529.8 TSOH- N/A S/N-040810 McCauley 3A32C406-D TT-392.7 TSOH- N/A - Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR. Part 43. Appendix D. - Compression check: 1. 61/80 2. 58/80 3. 61/80 4. 66/80 5. 62/80 6. 70/80. - Removed all fuel injectors and cleaned. Reinstalled and torqued to specs. Removed air filter element and installed new p/n BA-7112. Removed spark plugs, cleaned, tested and rotated. Checked mag to engine timing Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. Drained oil and removed filter. Installed new CH48109-1 oil filter. 11 qts. 20W50 Phillips oil and 2 cans avblend oil additive. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy condition. My Ronald R. Gray AP35578431A

Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173

Tach: 1544.0

Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173 Tach: 1611.3 Reg# N3077H W.O. 5683 Date: 1May2014 Aircraft Total Time: 1669.3 TSOH- N/A TT- 543.9 S/N- 580077 IO-520BB-52B TSOH- N/A Continental TT- 406 8 S/N- 040810 Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set McCauley forth by 14 CFR, Part 43, Appendix D. - Compression check: 1. 66/80 2. 60/80 3. 65/80 4 71/80 5 70/80 6 72/80 - Drained oil and removed filter. Cut filter for contamination inspection, none found. Installed new CH48109-1 oil filter, 10 qts. 20W50 Phillips oil and 2 bottles of Avblend oil additive Test ran aircraft for leaks, no discrepancies noted. Removed air filter element and installed new p/n BA-7112. Removed spark plugs, cleaned, tested and rotated. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy condition Rona R. Gray AP3557843IA Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173 Tach: 1626.5 Reg# N3077H W.O. 6194 Date: 9June2015 Aircraft Total Time: 1684.5 TSOH- N/A TT- 559.1 S/N-580077 1O-520BB-52B TSOH- N/A Continental TT- 422.0 - Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set S/N-040810 forth by 14 CFR, Part 43, Appendix D. - Compression check: 1, 62/80 2, 52/80 3, 58/80 4, 52/80 5, 60/80 6, 68/80, MO - 44, Cut filter for contamination inspection, none found. Installed new CH48109-1 oil filter, 10 qts. 20W50 Phillips oil and 2 bottles of Avblend oil additive. Test ran aircraft for - Drained oil and removed filter. leaks, no discrepancies noted. Removed spark plugs, cleaned, tested and rotated. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 48, popendix D and was found to be in an airworthy condition. airworthy condition. Ronald R. Gray AP3557843IA Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173 Tach: 1632.3 Reg# N3077H W.O. 6721 Date: 28Nov2016 Aircraft Total Time: 1632.3 S/N- 580077 TT- 564.9 TSOH- N/A IO-520BB-52B Continental S/N-040810 TT- 427.8 TSOH- N/A 3A32C406-D McCauley - Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR, Part 43, Appendix D. - Drained oil and removed filter. Cut filter for contamination inspection, none found. Installed new CH48109-1 oil filter and 12 qts. Aeroshell 100 Mineral oil. Test ran aircraft for leaks, no discrepancies noted. Removed all cylinders from engine. Installed owner supplied new Continental cylinder kits p/n 658611A4BP. Serial numbers installed: AC16AA282, AC16AA294, AC16AA301, AC16AA298, AC15LC112 and AC16BA827. Installed with supplied gasket kits. Removed flow divider and sent to Central Cylinder for repair. New diaphragm p/n 626536 and seal p/n 631330 installed. Reinstalled on aircraft and test run, no discrepancies noted. Replaced all spark plugs with new p/n URHB32E. Test ran aircraft and test flew, no discrepancies noted. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 43. Appendix D and was found to be in an airworthy condition. MR mald R. Gray AP3557843IA Advanced Air, Inc. 101 McCandless Lane, Council Bluffs, IA 51503 712-323-2173

14Dec2017

W.O. 7480

Reg# N3077H

Tach: 1656.4

Aircraft Total Time: 1656.4

Continental

IO-520BB-52B

S/N- 580077

TT- 504.9 589.0 TSOH- N/A

McCauley

3A32C406-D

S/N-040810

TT- 427.8 451.9 TSOH- N/A

Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set

forth by 14 CFR, Part 43, Appendix D.

- Compression check: (1. 72/80) (2. 77/80) (3. 76/80) (4. 74/80) (5. 72/80) (6. 78/80).

- Drained oil and removed filter. Cut filter for contamination inspection, none found. Installed new CH48109-1 oil filter and 12 qts. Aeroshell 100 Mineral oil. Test ran aircraft for leaks, no discrepancies noted. Test ran aircraft and test flew, no discrepancies noted. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy Ronald R. Gray AP3557843IA condition.

Date: 14May2018

Advanced Air, Inc. 101 McCandless Lane, Council Bluffs, IA 51503 712-323-2173 W.O. 7849 Reg# N3077H

Tach: 1676.3

Aircraft Total Time:

- Removed complete engine fuel system (fuel pump, metering unit, flow divider and nozzles) and sent to Central Cylinder for repair. Reinstalled fuel pump, fuel metering unit, flow divider and nozzles after repair. Installed all new engine fuel system hoses. Hose part numbers: 2ea. p/n AE3663753E0382, 1ea. p/n AE3663753E0322, 1ea. p/n AE7010001E0064, 1ea. p/n 624000-4-0170 and 1ea. p/n 624000-6-0186. Test ran aircraft and test flew, no discrepancies noted. Romald R Gray AP3557843

Date: 11 A pr 2020 ACTT: 1678.6

W.O. Eng. TT: 611.2

Reg# N 3077H Prop TT: 474.1 AC S/N: CE - 1154 Hobbs/Tach: 1678.6

Continental

IO-520BB-52B

S/N- 580077

TT-611.2

TSOH- N/A

McCauley

McCauley 3A32C406-D S/N- 040810 TT- 474.2 TSOH- N/A
- Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR, Part 43, Appendix D.

- Compression check: (1.71 /80) (2.73 /80) (3.71 /80) (4.79 /80) (5.72 /80) (6.70 /80).

- No oil change. Checked mag to engine timing. Inspected engine electrical system and engine wiring. Inspected induction and exhaust systems. Inspected engine fuel system and cleaned screens. This engine was inspected in accordance with and Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy condition. Bonald R. Gray AP3557843IA

Date: 20Aug2021

Reg# N3077H

Tach: 1691.8

ACTT: 1691.8

EngTT: 624.4

EngSMOH: n/a

PropTT: 487.3

PropSMOH: n/a

**Engine** 

Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR, Part 43, Appendix D. Complied with all applicable AD's and ICA's. Changed oil and filter. Inspected intake and exhaust systems. Inspected engine electrical system and wiring. This engine was inspected in accordance with an Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy condition. Oil change accomplished.

- Compression Check: (1. 65/80) (2. 65/80) (3. 67/80) (4. 65/80) (5. 65/80) (6. 70/80)

Ronald R Gray AP3557843IA

Date: 1Feb2023 EngTT: 646.9

Reg# N3077H EngSMOH: n/a Tach: 1714.3 PropTT: 509.8 **ACTT: 1714.3** PropSMOH: n/a

- Completed an Annual Inspection this date utilizing a checklist conforming to the scope and detail as set forth by 14 CFR, Part 43, Appendix D. Complied with all applicable AD's and ICA's. Changed oil and filter. Inspected intake and exhaust systems. Inspected engine electrical system and wiring. This engine was inspected in accordance with an Annual Inspection following the scope and detail of 14 CFR, Part 43, Appendix D and was found to be in an airworthy condition. Oil change accomplished.

- Compression Check: (1. 66/80) (2. 65/80) (3. 64/80) (4. 67/80) (5. 62/80) (6. 72/80)

Ronald R Gray AP3557843IA