

© Crown Copyrights reserved
Available by mail from Information Canada, Ottawa, K1A 0S9
and at the following Information Canada bookshops:

HALIFAX
1681 Barrington Street

MONTREAL
640 St. Catherine Street West

OTTAWA
171 Slater Street

TORONTO
221 Yonge Street

WINNIPEG
391 Portage Avenue

VANCOUVER
800 Granville Street

or through your bookseller

Price: \$1.00 Catalogue No. T52-2365-3

Price subject to change without notice

Information Canada
Ottawa, 1974

First printing 1965
Reprinted 1968
Reprinted 1971
Reprinted 1972
Reprinted 1974

ENGINE LOG

1. Make LYCOMING
2. Model D-320-B2A
3. Specification E-274
4. Mfg. Serial No. L-472-39
5. Reduction Gear Ratio NIL.
6. Date of Manufacture 1958
160 h.p.

CARB
10-3678-12

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES OR
	HRS.	MIN.	HRS.	MIN.	
	BROUGHT FORWARD →				
NOV. 75			573	00	TIME BROUGHT FORWARD CRISCA
NOV 75			573	00	
NOV 2/75			573	00	
April 29/76					5th 3 Cyl removed and sent to Harris at steel, engine was changed using New Detroit engine
July 26/76	97	04	670	04	100 HR INSPECTION
Nov 3/76	95	79	766	03	100 HR INSPECTION
July 7/77	91	22	857	25	100 HR INSPECTION CRISCA
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

LEAVENS SERVICE & OVERHAUL LIMITED
2555 DERRY RD. E., MISSISSAUGA, ONT. L4T 1A1

A. I. 99
M.O.T. APP. NO. 2-72

NOMENCLATURE Cylinder Assy chrome
 PART NO. 71693 MODEL or TYPE 0-320
 MAKE Lycoming
 SERIAL NO. 16-90
 NEW OVERHAULED REPAIRED

W/O# 63-119

PREVIOUS CERTIFICATION
 The material, part, or component identified hereon has been inspected and tested, and is certified airworthy.
 DATE Apr 28/76

W. A. Ball
 Inspector's Signature, Stamp



SERVICEABLE

ENGINE NUMBER

m 70

m 70

m 70

769

I hereby certify I have completed the nearest equivalent to a 100 hr. periodic inspection of the Engine described herein and it is airworthy.

W. A. Ball
 Signature

Licence No. 42m769 Date July 26/76

W. A. Ball 42m769

I hereby certify I have completed the nearest equivalent to a 100 hr. periodic inspection of the Engine described herein and it is airworthy.

W. A. Ball
 Signature

Licence No. 42m769 Date July 26/76

W. A. Ball 42m769

I hereby certify I have completed the nearest equivalent to a 100 hr. periodic inspection of the Engine described herein and it is airworthy.

W. A. Ball
 Signature

Licence No. 42m769 Date July 26/76

W. A. Ball 42m769

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →			857	25	
Dec 5/77	35	45	943	10	100 HR INSPECTION FOR CCI Procedure
July 17/79					
April 16/79			1075	.68	C.C.I. - Renewal of C
Sept 25/77	64	31	1139	.99	
Sept 25/79			1139	.99	
Nov 1/79			1237	77	100 hr inspection -
Oct 17/80	105	5	1343	8	100 hr inspection oil changed SHAL FOW
April 8/81	11	2	1355	0	C.C.I. carried out this
April 17/82	42	8	1397	8	C.C.I. carried out this
13 April 83	21	59	1419	4	C.C.I. carried out
27 JUNE 84	29	4	1440	8	100 HR INSPECTION FOR APPLICATION CERTIFICATE OF AIRWORTHINESS (C.A.I.) TOP OVERHAUL ON ALL FOUR CYLINDERS TO CONVERT FROM 1/16" TO 1/2" EXHAUST COMPLETED BY AERO AVIATION OF CITY ILLINOIS U.S.A. THEIR WORK #2822 FAA AIRWORTHINESS APPROVAL BROUGHT FORWARD PROVIDED FOR EACH CYCLE
TOTAL THIS PAGE			1440	8	
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG					

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
I certify I have completed the nearest equivalent to a 100 hour periodic inspection of the aircraft described herein and it is airworthy.	<i>W. Ball</i>	421164
I certify that I have flown this aircraft and its engine, propellers, landing gear, etc., were equivalent to the standard of the type.	<i>W. Ball</i>	421164
PERTINENT DETAILS OF THIS REPAIR OR SERVICE ARE ON FILE AT FIELD AVIATION COMPANY LIMITED UNDER WORK ORDER No. 33463		
I hereby certify I have completed the nearest equivalent to a 100 hour periodic inspection of the aircraft described herein and it is airworthy.	<i>J. J. C. K.</i>	421162
I hereby certify I have completed the nearest equivalent to a 100 hour periodic inspection of the aircraft described herein and it is airworthy.	<i>W. Ball</i>	421164
I hereby certify I have completed the nearest equivalent to a 100 hour periodic inspection of the aircraft described herein and it is airworthy.	<i>W. Ball</i>	421164
100 hr inspection - Airworthy	<i>W. Ball</i>	421164
100 hr inspection - Airworthy	<i>W. Ball</i>	421164
Engine airworthy	<i>W. Ball</i>	421164
Engine airworthy	<i>W. Ball</i>	421164
Engine airworthy	<i>W. Ball</i>	421164

MAXIMUM HOURS BETWEEN OVERHAULS 2000 HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
	HRS.	MIN.	HRS.	MIN.	
			1440	8	CONTINUED...
27 JUNE 84	0	0	1440	8	ASSEMBLY. ENGINE MOUNT WELDED REPAIRED BY BRANTFORD AIR CENTRE BY "B" ENGINEER JAMES FIELD ALL SUPPLIED. ENGINE MOUNT RUBBER FILTERS CLEANED OR REPLACED AS 100 MINERAL OIL ADDED TO ENGINE THROTTLE, MIXTURE & CARB HEAT
27 JUNE 84	A	B	1440	8	THROTTLE, MIXTURE & CARB HEAT
27 JUNE 84	0	0	1440	8	THROTTLE, MIXTURE & CARB HEAT
FEB 5 1985	13	9	1454	7	1000 HR INSPECTION COMPLETED AS PER INSPECTION SHEET 230 201 DATED 83- ALL AWD'S, SB'S & SL'S CHECKED FOR THROUGH TO THIS DATE AND NOTED IN SECT II, III, & IV OF TECHNICAL LOGS.
FEB 5 1985	0	0	1454	7	DUAL SIGNATURE ON THROTTLE, MIXTURE HEAT CONTROLS DUE TO COMPLIANCE OF
FEB 5 1985	0	0	1454	7	DUAL SIGNATURE ON THROTTLE, MIXTURE HEAT CONTROLS DUE TO COMPLIANCE OF
APRIL 17/85					CRANK SHAFT SEAL INSTALLED
JUNE 6/85	15	56	1470	5	CPI CARRIED OUT
JUNE 27/86	42	5	1513	0	CPI CARRIED OUT
Oct 29/88	33	0	1546	0	100 hr inspection for C of A. AD 84-26-02
Nov 4/89	7	6	1553	6	100 hr inspection for AD 68-02
JUNE 24/92	10	4	1564	0	AD 84-26-02, works report on 100 hr inspection oil changed Phillips
JAN 20/93	92	4	1656	4	100 hr inspection oil changed Phillips
JAN 20/93					#1 74 75 76 77 78 79 80

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
	<i>[Signature]</i>	YZM 236669
I HEREBY CERTIFY I HAVE COMPLETED THE NEAREST EQUIVALENT TO A 100 HR. PERIODIC INSPECTION OF THE AIRCRAFT DESCRIBED HEREIN AND IT IS AIRWORTHY.		
CONDUCTED AN INSPECTION FOR CONFORMANCE TO THE TYPE OF THE ENGINE / POWERPLANT CONTROLS THAT WERE AFFECTED BY THE WORK ACCOMPLISHED.	<i>[Signature]</i>	YZM 236669
CONDUCTED AN INSPECTION FOR CONFORMANCE TO THE TYPE OF THE ENGINE / POWERPLANT CONTROLS THAT WERE AFFECTED BY THE WORK ACCOMPLISHED.	<i>[Signature]</i>	YZM 236669
I HEREBY CERTIFY THAT ALL APPLICABLE REQUIREMENTS STATED IN THE ENGINEERING AND OPERATION MANUAL HAVE BEEN MET AND THE AIRCRAFT IS DETERMINED TO BE AIRWORTHY.		
CONDUCTED AN INSPECTION FOR CONFORMANCE TO THE TYPE OF THE ENGINE / POWERPLANT CONTROLS THAT WERE AFFECTED BY THE WORK ACCOMPLISHED.	<i>[Signature]</i>	YZM 236669
CONDUCTED AN INSPECTION FOR CONFORMANCE TO THE TYPE OF THE ENGINE / POWERPLANT CONTROLS THAT WERE AFFECTED BY THE WORK ACCOMPLISHED.	<i>[Signature]</i>	YZM 236669
CONDUCTED AN INSPECTION FOR CONFORMANCE TO THE TYPE OF THE ENGINE / POWERPLANT CONTROLS THAT WERE AFFECTED BY THE WORK ACCOMPLISHED.	<i>[Signature]</i>	YZM 236669
AD 84-26-02, work order on pits engine fuel door disassembled checked & cleaned oil changed oil screen checked airworthy	<i>[Signature]</i>	YZM-613
oil changed oil screen checked airworthy	<i>[Signature]</i>	YZM-613
oil screen checked compressor checked	<i>[Signature]</i>	YZM-613
oil screen checked internally no signs of corrosion	<i>[Signature]</i>	YZM-613
oil screen checked. compression test carried out engine serviceable	<i>[Signature]</i>	YZM-613

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

CARRIED FORWARD

MAXIMUM HOURS BETWEEN OVERHAULS 2000 HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION. ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
	HRS.	MIN.	HRS.	MIN.	
MAY 28/96			00	00	Bottom End ZERO TIME CONTINUED ON C/P 3 MAGNETOS + CARB 4 CYLINDER REPAIRED ENGINE REASSEMBLED
JUNE 7/96	0	0	0	0	ENGINE Installed GRND Run INDEPENDENT CHECK FOR Powerplant Control AND CHECKED SERVICABLE <i>WGM/3240</i>
Sept 26/97	17	9	17	9	100 HR Inspection for Annual All Filters + Screens Cleaned + Rechanged - CARB Removed + Reinstalled After Repair Venturi INDEPENDENT CHECK for ENG. Control PERFORMED AND CHECK SERVICABLE <i>WGM/3240</i>
March 2/2000	19	1	37	0	compression result C1 80/50 C2 74/50 C3 84/50 C4 50/50
SEPT 7/2000	15	7	52	7	1. OIL CHANGED - 1000 2. OIL SCREEN INSPECTED 3. Rocker Cover Gaskets Replaced
			52	7	CARRIED FORWARD

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL HOURS	

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
ENGINE OVERHAULED/REPAIRED AND TESTED. IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS COPIES OF MOD'S AND PARTS LIST ATTACHED. CERTIFIED AIRWORTHY DATE <u>MAY 28 1996</u> UNIVERSAL AERO ENG. LTD. <i>Robert M. [Signature]</i> AME "D" CAT. LIC. No. <u>M376750</u>		
INDEPENDENT CHECK FOR Powerplant Control AND CHECKED SERVICABLE THE Maintenance Described HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS <i>[Signature]</i> WGM/132601		
100 HR Inspection for Annual + Rotated, Compression 75/50 on all Cyl. All Filters + Screens Cleaned + Rechanged - CARB Removed + Reinstalled After Repair INDEPENDENT CHECK FOR ENG. Control PERFORMED AND CHECK SERVICABLE * Maintenance For CARB 625 Appendix B + C items checked <i>[Signature]</i> WGM/132601		
whereby certify I have completed annual 100 HR. periodic inspection. check rubber engine mount - flexible fuel line change oil + check screens (1500 Rev. 11/11)	<i>[Signature]</i>	LICENCE NO. <u>237197</u> <u>March 21/20</u>
THE MAINTENANCE DESCRIBED HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS OF AIRWORTHINESS DATE <u>Sept 7/2000</u> SIGNED <i>[Signature]</i> Groves Aero Service WGM 201583 JCA <u>1195031</u>		

MAXIMUM HOURS BETWEEN OVERHAULS 2000 HOURS.

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
	HRS.	MIN.	HRS.	MIN.	
	BROUGHT FORWARD →		52	7	
Dec 15/2000	2	3	55	0	1. OIL CHANGED - W80
May 13/2001	6	1	61	1	1. OIL CHANGED - W100 AVIATION SHELL 2. 8 NEW REM HO & SPARK PLUGS 3. IGNITION LEADS TESTED - NO FAULT 4. 1 70/80 2 72/80 3 71/80 4 70/80 5. ANNUAL 100/HK INSPECTION CARRIED OUT
Nov 16/01	10	1	71	2	1. OIL CHANGED TO W80 AVIATION SHELL 2. STARTER ARMOUR CLEANED, LUBRICATED AND 3. ALL EXHAUST GASKETS REPAIRED
July 12/02	21	7	92	9	OIL CHANGED 20W50 TYPE A. CYLINDERS REMOVED, EXHAUST VALVES RINGS REPLACED.
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
THE MAINTENANCE DESCRIBED HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS OF AIRWORTHINESS. DATE Dec 15/00 SIGNED Mike Shutt IC# M95631	<i>Mike Shutt</i>	M95631
THE MAINTENANCE DESCRIBED HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS OF AIRWORTHINESS. DATE May 13/01 SIGNED Mike Shutt IC# M95631	<i>Mike Shutt</i>	M95631
THE MAINTENANCE DESCRIBED HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS OF AIRWORTHINESS. DATE Nov 16/01 SIGNED Mike Shutt IC# M95631	<i>Mike Shutt</i>	M95631
AN ANNUAL INSPECTION WAS CARRIED OUT IN ACCORDANCE WITH CAR'S AIRCRAFT EQUIPMENT AND MAINTENANCE STANDARDS 625 APPENDIX B PART ONE AND APPLICABLE REQUIREMENTS OF APPENDIX C.		
THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS.	<i>Tom Shaw</i>	M22053

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
	BROUGHT FORWARD →		92.9		
Sept 11-03	37	8	130	2	Annual inspection carried out using Martin Aircraft Services check list and the CARS. The maintenance described above has been performed in accordance with the applicable standards of airworthiness.
Sept 16-04	11	2	146	4	Annual inspection carried out in accordance with standard E25 Appendix BPC. New bucket air filter installed, part # BA4108, rec # 031-10-05. The maintenance described above has been performed in accordance with the applicable standards of airworthiness.
Sept 30/04	1	2	147	6	All spark plugs serviced, Reinstalled.
Oct 28/05	12	4	160	0	1. Annual inspection carried out in accordance with E25 Appendix B' and C' 2. Oil changed - WRO and oil screen replaced + new basket installed 3. Top spark plugs serviced and new 18mm 37BY installed in bottom position 4. New screen, tail wire Assy and basket fuel strainer 5. 1. 76/80 2. 75/80 3. 74/80 4. 75/80
Nov 28/2006	3	5	163	5	1. Annual inspection carried out as per Appendix B' and C' 2. Spark plugs serviced 3. Oil return line tightened 4. Air filter cleaned 5. 1. 76/80 2. 75/80 3. 74/80 4. 76/80
			163	5	CARRIED FORWARD

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
ENTRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		
carried out using Martin Aircraft Services	W.T. Maht	N28553
above has been performed in accordance with the applicable standards of airworthiness	W.T. Maht	N28553
carried out in accordance with standard E25 Appendix BPC. New bucket air filter installed, part # BA4108, rec # 031-10-05.	W.T. Maht	N28553
The maintenance described above has been performed in accordance with the applicable standards of airworthiness.	W.T. Maht	N28553
All spark plugs serviced, Reinstalled.	Mike Shortt	N95631
1. Annual inspection carried out in accordance with E25 Appendix B' and C' 2. Oil changed - WRO and oil screen replaced + new basket installed 3. Top spark plugs serviced and new 18mm 37BY installed in bottom position 4. New screen, tail wire Assy and basket fuel strainer 5. 1. 76/80 2. 75/80 3. 74/80 4. 75/80	Shortt Aviation W/O# 5087	THE MAINTENANCE DESCRIBED HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS OF AIRWORTHINESS SUBJECT TO SATISFACTORY TEST FLIGHT. DATE Oct 28/05 SIGNED Mike Shortt LIC # N95631
1. Annual inspection carried out as per Appendix B' and C' 2. Spark plugs serviced 3. Oil return line tightened 4. Air filter cleaned 5. 1. 76/80 2. 75/80 3. 74/80 4. 76/80		THE MAINTENANCE DESCRIBED HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS OF AIRWORTHINESS SUBJECT TO SATISFACTORY TEST FLIGHT. DATE Nov 28/06 SIGNED Mike Shortt LIC # N95631

Cyfe
#1 68732 EQ2 Rev H
5153 H14677448
#2 68732 EQ2 Rev AE
F88074468
#3 71893
#4 0105571093

THIS PAGE	
FROM	
SUMMARY	
TOTAL	
ANCE MFG.	

OVERHAULS _____ HOURS _____

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORWARD →

			163	5	
Nov 22/2007	5	2	168	7	D.P.T. 1 74/80 2 73/80 3 75/80 4 70/80

* DEC 2/2008 9 7 178 4

T.S. Top of H Cyls
 $1656.4 - 1440.8 = 215.6 \text{ hr}$
 27 JUNE 1984
 $215.6 + 181.0 = 396.6$

SEPT 26/87 CARR
 VENTURI REPLACES
 UNIVERSAL ARRO
 93-18-01 MS2

3141.9
 $3144.5 - 3141.9 = 2.6$
 $175.4 + 2.6 = 181.0 \text{ hr}$
 END T.S.O.

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

C-GGZO s/n 22-5883 TT 3132.2 Eng TSO 168.7 Prop TSO 75.8 Tach 3213.4

- Annual inspection carried out as per CARs 625 appendix 'B' and 'C'.
- Oil changed, Aeroshell W80, oil screen inspected, installed with new gasket.
- Spark plugs serviced and rotated. Timing checked.
- Exhaust for cyl. 1&3 repaired and installed with new gaskets.
- Battery serviced and terminals cleaned.
- Carburetor drained and fuel system checked.
- Tail wheel inspected and lubricated.
- Main wheels inspected and brakes bled, tire pressure checked.
- Controls inspected and lubricated.
- Tachometer accuracy checked.
- ELT certified, installed and armed.

The Maintenance described has been performed in accordance with applicable standards of airworthiness subject to satisfactory test flight.

SHORTT AVIATION
 w/o 5262 Date Nov 22, 2007
 Signed *Nick Shortt* Lic. # M95631

C-GGZO s/n 22-5883 TT 3141.9 Eng TSO 178.4 Prop TSO 85.5

- Annual inspection carried out as per CARs 625 appendix 'B' and 'C'.
- Spark plugs serviced.
- 1. 74/80, 2. 75/80, 3. 73/80, 4. 71/80.
- Fuel system checked and carburetor drained.
- Battery serviced and reinstalled.
- Controls inspected and lubricated.
- Wheels inspected, air pressure adjusted, and brakes bled.
- Tail wheel spring tightened, bearings greased, and caster tension backed of 1 turn.
- ELT, Pointer 4000, s/n 405484 certified, installed and armed.
- Compass swing.
- Tachometer accuracy checked.

The Maintenance described has been performed in accordance with applicable standards of airworthiness.

SHORTT AVIATION
 w/o 85351 Date December 2, 2008
 Signed *Nick Shortt* Lic. # M95631

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

