





## ENGINE DESCRIPTION

MANUFACTURER CONTINENTAL MODEL 10-520-BA  
SERIAL NUMBER 122021-8-B DATE OF MANUFACTURE \_\_\_\_\_  
RATED BHP 285 RPM 2700 MANIFOLD PRESSURE \_\_\_\_\_  
100  
FUEL REQUIRED OCTANE/PERFORMANCE \_\_\_\_\_

REGISTERED OWNER \_\_\_\_\_

STREET & NO. \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

REGISTERED OWNER \_\_\_\_\_

STREET & NO. \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

TBO 1700

# WESTERN SKYWAYS GOLD SEAL

## ZERO-TIME EQUIVALENT ENGINE

PER CONTINENTAL MANUAL X0003AN

THIS ENGINE AND ACCESSORIES WERE REBUILT  
TO FACTORY NEW TOLERANCES. SEE THE  
MEMORANDA SECTION FOR A LIST OF A.D. NOTES  
THAT WERE COMPLIED WITH. TOTAL PREVIOUS

TIME: 4381.0 HOURS

TSRB: 0.0 HOURS

**AAR WESTERN SKYWAYS, INC.**

**FAA APPROVED REPAIR STATION #4110**

PORTLAND-TROUTDALE AIRPORT / TROUTDALE, OREGON

ALL APPLICABLE ENGINE BULLETINS THROUGH THIS DATE 04-08-86 CHECKED FOR COMPLIANCE.  
THIS ENGINE WAS RUN IN A TEST CELL.

### MAINTENANCE RELEASE

THE AIRCRAFT AND/OR COMPONENT IDENTIFIED  
ABOVE WAS REPAIRED AND INSPECTED IN  
ACCORDANCE WITH CURRENT FEDERAL AVIATION  
REGULATIONS AND WAS FOUND AIRWORTHY FOR  
RETURN TO SERVICE.

PERMANENT DETAILS OF THE REPAIR ARE ON FILE AT  
THIS AGENCY UNDER WORK ORDER NO. 66672  
DATE 04-08-86 SIGNATURE J. R. Palmer

**INSPECTOR RS 4110**

**F.A.A. APPROVED REPAIR STATION No. 4110**  
**PORTLAND-TROUTDALE AIRPORT**  
**TROUTDALE, OREGON**

**INSPECTOR RS 4110**

J. R. Palmer



# **LIMITED WARRANTY AAR WESTERN SKYWAYS GOLD SEAL REMANUFACTURED ENGINE**

AAR Western Skyways, Inc., warrants this remanufactured Gold Seal engine to be free from defects in material and workmanship under normal use for six months commencing from the date of installation or ten days after shipment, whichever is earlier. AAR Western Skyways additionally warrants the Gold Seal engine on a prorated basis from the expiration of the 6 month warranty to the TBO\* of the engine. That proration is based on a use rate of 40 hours per month or actual use, whichever is greater. This extended warranty includes labor charges. AAR Western Skyways will repair or replace, at its option, any material or workmanship within the applicable period as set forth above. The repair or replacement of defective parts under this warranty will be made by AAR Western Skyways without charge to the owner for parts, labor or material used in the removal, installation and/or actual repair of such defective parts or workmanship, except import duties and/or sales or use taxes, and freight, which are the owner's responsibility. AAR Western Skyways' obligation under this warranty is limited to repair or replacement of defective materials and workmanship for the time period delineated above.

Warranty service may be accomplished at facilities other than AAR Western Skyways, but only after prior approval from AAR Western Skyways, provided all work is to be performed at prevailing rates with AAR Western Skyways retaining the option to furnish all parts and accessories. This warranty is void if the engine and its accessories have been repaired or altered outside the AAR Western Skyways facility without prior approval, or have been operated contrary to the manufacturer's operating instructions or subject to misuse, neglect, accident or use of improper fuel subsequent to installation or shipment by AAR Western Skyways.

AAR Western Skyways' liability for breach of this warranty is expressly conditioned upon receipt of written notice specifying the breach complained of within seven days after such breach and upon customer's delivery of its aircraft (or any necessary accessory thereto or component part thereof) to AAR Western Skyways, or a repair facility designated by AAR Western Skyways, for correction of such breach within thirty days after the service of such written notice. The written notice shall be addressed to AAR Western Skyways, Inc., Portland-Troutdale Airport, Troutdale, Oregon 97060.

Warranty repair or replacement of any part shall not extend this warranty beyond the original warranty time or hour limitation.

THE WARRANTY PROVIDED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS DOCUMENT.

\*TBO: Time between overhaul as recommended by the manufacturer



# ENGINE MAINTENANCE LOG

## Description of Inspection, Repair and Overhaul

Enter here general data with reference to inspections, alterations and repairs and overhaul.  
ALL DATA must be endorsed with the name, rating and certificate number of either the FAA  
Repair Station or the mechanic.

DATE 4/1  
19 86

ACCUMULATED TOTALS	
Hours	10ths
00.	500H

A.D. NOTE 77-13-22 (39-3188 must

BE COMPLIED WITH EACH 100 HRS

FAA #4110

INSPECTOR RS 4110

Gold Seal

REMANUFACTURED ENGINES

ZERO TIME EQUIVALENT

PORTLAND-TROUTDALE AIRPORT

TROUTDALE, OREGON 97060

5-158 201.00

ENGINE INSTALLED IN BONANZA 36

SER# E136. TEST RUN & TEST

TT 4383

FLOWN, SATISFACTORY.

Jerry & Marshall

IA 526727369

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CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



# ENGINE MAINTENANCE LOG

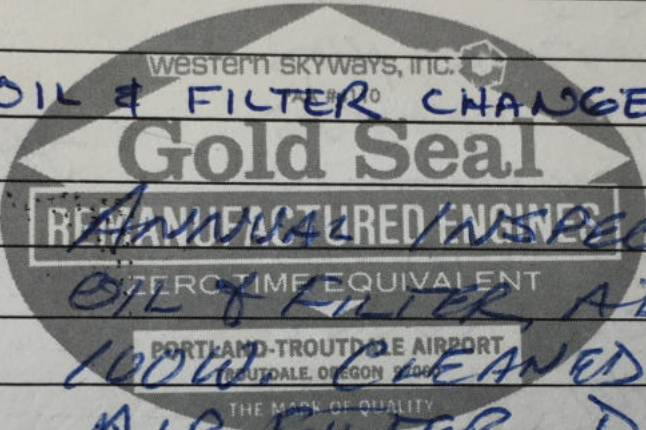
DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
19 <u>87</u>			
Howard Aviation, Inc. 2901 E. Spring St. Long Beach, Calif. 90806 Repair Station #405-162			ANNUAL WSP- CHANGE OIL & FILTER. CLEAN, GAP, TEST & ROTATE SPARK PLUGS DIFF. COMP. TEST #1-77 #2-77 #3-77 #4-77 #5-75 #6-77. CLEAN FUEL INJECTION SCREEN. WASH ENGINE & TEST RUN, NO LEAKS.- END -
Date <u>9-22-87</u>			
Total Time <u>4615.4</u>		Tech <u>433.4</u>	
I certify this <u>ENGINE</u> has been			
inspected in accordance with an <u>ANNUAL</u>			
inspection and was determined to be in an			
airworthy condition. Pertinent details of			
the repair are on file at this repair station			
under Order # <u>1267</u>		Date <u>9-17-87</u>	
Signature <u>[Signature]</u>			

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

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# ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
19 <u>88</u>			
4/12	482	TACH	OIL & FILTER CHANGE
<div style="text-align: center;">  </div>			
Howard Aviation, Inc. 2901 E. Spring St. Long Beach, Calif. 90806 Repair Station #405-162			ANNUAL INSPECTION - CHANGED OIL & FILTER, ADDED 12 QTS AEROSHEAL 100W, CLEANED FUEL SCREEN, CHANGED AIR FILTER, DIFF COMP TEST #1 80/74
Date	10-15-88		
Total Time	4725.23 Tach	543.23	#2 80/73 #3 80/75 #4 80/72 #5 80/76 #6 80/74.
I certify this ENGINE has been			REPLACED R.H. HEAT MUFFLER & L.H.
inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition. Pertinent details of the repair are on file at this repair station			MUFFLER WITH NEW PARTS. R.H. STACK REPAIRED. ENGINE WASHED & TEST RUN, NO LEAKS. END
under Order #	1858	Date	10-4-88
Signature	Mark Terry		

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
19____			<p>Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.</p>
			<p style="text-align: center;"><b>100 HR INSPECTION-</b></p>
Howard Aviation, Inc. 2901 E. Spring St. Long Beach, Calif. 90806 Repair Station #405-162			<p>PERFORMED DIFF. COMPRESSION TEST  #1 80/74 #2 80/70 #3 80/75 #4 80/74 #5 80/76  #6 80/74 CHANGED OIL &amp; FILTER,  ADDED 12 QTS AEROSHEN 100W.  CLEANED, GAPPED, TESTED &amp; ROTATED  SPARKPLUGS. CLEANED FUEL INT  SCREEN. WASHED ENGINE &amp; TEST  RUN, NO LEAKS.  <b>END</b></p>
Date <u>12-01-89</u>			
Total Time <u>4813.2</u>		Tach <u>631.02</u>	
I certify this <u>ENGINE</u> has been			
Inspected in accordance with a <u>100 HR</u>			
inspection and was determined to be in an			
airworthy condition. Pertinent details of			
the repair are on file at this repair station			
under Order # <u>2521</u>		Date <u>11/13/89</u>	
Signature <u>Rob Howard</u>			

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

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MODEL Bonanza 36

S/N E-136

REG. NO. N7867R

**HOWARD AVIATION, INC.**

4001 N. SANTA ANITA AVE.

EL MONTE, CA 91731

F.A.A. APPROVED

REPAIR STATION NO. EM3R480L

DATE 02/05/91

W.O.# 3186

HOBBS           

TACH old - 706.94  
new - 000.0

**LOGBOOK INSERT**

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 Hour INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION.

DATE 02/05/91

SIGNED Bob A Howard

R&R ENGINE FOR TEARDOWN AND INSPECT BY LYNN'S AIRCRAFT ENGINES.  
PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/73. #2 80/70. #3  
80/74. #4 80/74. #5 80/73. #6 80/72. CLEANED, GAPPED, TESTED,  
AND ROTATED SPARKPLUGS. CHANGED OIL AND FILTER, ADDED 12 QUARTS  
OF AEROSHELL 100W. CHECKED MAG TIMING. INSPECTED AND PRESSURE  
CHECKED EXHAUST SYSTEM. INSPECTED ALL FLUID CARRYING HOSES.  
CLEANED FUEL INJECTION SCREEN. WASHED ENGINE AND TEST RUN, NO  
VISIBLE LEAKS APPARENT. — END —



MODEL Beech Bonanza

S/N E136

REG. NO. 7867R

**HOWARD AVIATION, INC.**

4001 N. SANTA ANITA AVE.

EL MONTE, CA 91731

F.A.A. APPROVED

REPAIR STATION NO. EM3R480L

DATE 4/23/92

W.O.# 4043

HOBBS           

TACH 0096.9

**LOGBOOK INSERT**

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 Hour INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION.

DATE 4/23/92 SIGNED *Ral Howard*

PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/67. #2 80/77. #3  
80/74. #4 80/77. #5 80/76. #6 80/77. CLEANED, GAPPED, TESTED,  
AND ROTATED SPARKPLUGS. CHANGED OIL AND FILTER, ADDED 12 QUARTS  
OF AEROSHELL 100W. CHECKED MAG TIMING. INSPECTED AND PRESSURE  
CHECKED EXHAUST SYSTEM. INSPECTED ALL FLUID CARRYING HOSES.  
CLEANED FUEL INJECTION SCREEN. WASHED ENGINE AND TEST RUN, NO  
VISIBLE LEAKS APPARENT.-----END-----.



MODEL Cont. IO-520-B

S/N 122021-8-B

REG. NO. N7867R

**HOWARD AVIATION, INC.**

4001 N. SANTA ANITA AVE.

EL MONTE, CA 91731

F.A.A. APPROVED

REPAIR STATION NO. EM3R480L

DATE 9/3/93

W.O.# 4846

HOBBS

TACH 139.0

### LOGBOOK INSERT

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 Hour INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION

DATE 9/3/93 SIGNED *Bob Howard*

PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/60. #2 80/74 #3 80/72. #4 80/71. #5  
80/70. #6 80/70. CLEANED, GAPPED, TESTED, AND ROTATED SPARKPLUGS. CHECKED MAG  
TIMING. INSPECTED AND PRESSURE CHECKED EXHAUST SYSTEM AND HEATER MUFF.  
INSPECTED ALL FLUID CARRYING HOSES. RESET UNMETERED FUEL PRESSURE. WASHED  
ENGINE AND TEST RUN, NO VISIBLE LEAKS APPARENT.-----END-----.



MODEL Cont. IO-520-B

S/N 122021-8-B

REG. NO. N7867R

**HOWARD AVIATION, INC.**

1911 McKINLEY AVE.

LA VERNE, CA 91750

F.A.A. APPROVED

REPAIR STATION NO. EM3R480L

DATE 11/8/94

W.O.# 5418

HOBBS                     

TACH 227.3

TOTAL TIME                     

**LOGBOOK INSERT**

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION.

DATE 11/8/94 SIGNED *Bob Howard*

PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/62. #2 80/70 #3 80/70. #4 80/76. #5  
80/73. #6 80/75. CLEANED, GAPPED, TESTED, AND ROTATED SPARKPLUGS. CHANGED OIL  
FILTER, ADDED 12 QUARTS OF AEROSHELL 100W. CHECKED AND ADJUSTED MAG  
TIMING. AD 93-16-15 N/A DUE TO P.N. OF PUMP.. INSPECTED AND PRESSURE CHECKED  
EXHAUST SYSTEM. INSPECTED ALL FLUID CARRYING HOSES. WASHED ENGINE AND  
TEST RUN, NO VISIBLE LEAKS APPARENT.-----END-----.



MODEL Cont. IO-520-B

S/N 122021-8-B

REG. NO. N7867R

**HOWARD AVIATION, INC.**

1911 McKINLEY AVE.

LA VERNE, CA 91750

F.A.A. APPROVED

REPAIR STATION NO. EM3R480L

DATE 12/12/95

W.O.# 6102

HOBBS                     

TACH 317.4

TOTAL TIME 823.48  
SMOH

**LOGBOOK INSERT**

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 hour INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION.

DATE 12/12/95 SIGNED *Kol Howard*

PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/10. #2 80/75. #3 80/75. #4 80/76. #5  
80/73. #6 80/77. REPLACED #1 CYLINDER WITH REBUILT CYLINDER FROM ONE STOP  
AVIATION(CRS XR3R981L). REPLACED SPARKPLUGS. CHANGED OIL AND FILTER, ADDED  
12 QTS AEROSHELL 100W OIL. CHECKED MAG TIMING. INSPECTED AND PRESSURE  
CHECKED EXHAUST SYSTEM. INSPECTED ALL FLUID CARRYING HOSES. WASHED ENGINE  
AND TEST RUN, NO VISIBLE LEAKS APPARENT.-----END-----.



## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
1996			Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
SEPT 3	384	1. T.T	DRAINED AND REFILLED ENGINE OIL WITH 12QT ARD SHELL 15W50. REMOVED AND REPLACED ENGINE OIL FILTER. INSTALLED FILTER CH48109, PERFORMED LEAK CHECK.
	890.08	\$MOT	Paul M. Mott FAA #4110 AEP 585266190

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CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



# ENGINE MAINTENANCE LOG

MODEL Cont. IO-520-B

**HOWARD AVIATION, INC.**

DATE 12/26/96

S/N 122021-8-B

1911 McKINLEY AVE.

W.O.# 6990

LA VERNE, CA 91750

REG. NO. N7867R

F.A.A. APPROVED

HOBBS                     

REPAIR STATION NO. EM3R480L

TACH 416.0

## LOGBOOK INSERT

TOTAL TIME SMOH: 922.08

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 Hour INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION.

DATE 12/26/96

SIGNED *John Howard*

PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/74. #2 80/78. #3 80/72. #4 80/76. #5  
70/72. #6 80/76. CHANGED OIL AND FILTER, ADDED 11 QTS. AEROSHELL 100W. CLEANED,  
GAPPED, TESTED AND ROTATED SPARKPLUGS. CHECKED MAG TIMING. INSPECTED AND  
PRESSURE CHECKED EXHAUST SYSTEM. INSPECTED ALL FLUID CARRYING HOSES.  
WASHED ENGINE AND TEST RUN, NO VISIBLE LEAKS APPARENT.-----END-----.

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
19 June 97			<p>Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of <b>either</b> the FAA Repair Station or the mechanic.</p> <p>Totals 458.0 Replace oil + filter clean and gapped lower plugs</p> <p>Q. Hansen ATP 181624Z</p> <p><b>Gold Seal</b> REMANUFACTURED ENGINES ZERO TIME EQUIVALENT PORTLAND-TROUTDALE AIRPORT TROUTDALE, OREGON 97060 THE MARK OF QUALITY</p>

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CARRY ACCUMULATED TOTALS FORWARD TO TOP OF PAGE



MODEL Cont. IO-520-B

S/N 122021-8-B

REG. NO. N7867R

**HOWARD AVIATION, INC.**

1911 McKINLEY AVE.

LA VERNE, CA 91750

F.A.A. APPROVED

REPAIR STATION NO. EM3R480L

DATE 2/1/98

W.O.# 7641

HOBBS                     

TACH 602.1

**LOGBOOK INSERT**

TOTAL TIME SMOH: 1108.18

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH  
A 100 Hour INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PERTINENT  
DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION.

DATE 2/1/98 SIGNED *Ral Howard*

PERFORMED DIFFERENTIAL COMPRESSION TEST: #1 80/76. #2 80/78. #3 80/74. #4 80/75. #5  
70/75. #6 80/77. CHANGED OIL AND FILTER, ADDED 10 QTS. AEROSHELL 100W. CLEANED,  
GAPPED, TESTED AND ROTATED SPARKPLUGS. CHECKED MAG TIMING. INSPECTED AND  
PRESSURE CHECKED EXHAUST SYSTEM. INSPECTED ALL FLUID CARRYING HOSES.  
WASHED ENGINE AND TEST RUN, NO VISIBLE LEAKS APPARENT.-----END-----.



## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
19			Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
22 Feb 99	Tach	1051.9	<p>Hughes bleed + capped</p> <p>carry 10k cell 76/80 or better</p> <p>oil &amp; filter replaced</p> <p><i>[Signature]</i></p>
<p>I CERTIFY THIS <i>Engine</i> WAS INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FAA AND FOUND TO BE AIRWORTHY</p> <p>A. HANSEN A&amp;P 1813242</p> <p><i>[Signature]</i></p>			<p>WESTERN SKYLINE, INC.</p> <p><b>Gold Seal</b></p> <p>REMANUFACTURED ENGINES</p> <p>ZERO TIME EQUIVALENT</p> <p>PORTLAND-TROUTDALE AIRPORT TROUTDALE, OREGON 97060</p> <p>THE MARK OF QUALITY</p>

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# ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
13 April 2000			Tack 754.3 Comp ck all 22/80 or better plugs cleaned & gapped 100W Connel 77-13-22 95-03-14 96-12-22 CW 1816242
1-2-06			Tack 875.2 5 Nov 1375.0 installed Differential ck g #1 $7\frac{7}{8}$ #2 $2\frac{7}{8}$ #3 $3\frac{25}{80}$ Slick Mag & herres #4 $4\frac{75}{80}$ #5 $5\frac{7}{8}$ #6 $6\frac{7}{8}$ #7 $7\frac{7}{8}$ #8 $8\frac{7}{8}$ #9 $9\frac{7}{8}$ #10 $10\frac{7}{8}$ 08-06320 URH B Ch 48109 installed Shell 50 installed new 32E pluggs inst. Air filter

I Certify this Ehg. has been  
inspected in accordance with  
Annex inspection & was determined  
to be in an airworthiness condition.

Wendell Schubert

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

Wendell Schubert A1438416



YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
9/10/03		Tach 871.6		SMOTH 1371.4 changed oil and Filter & Comp. check #1 $\frac{78}{80}$ #2 $\frac{78}{80}$ #3 $\frac{75}{80}$ #4 $\frac{75}{80}$ #5 $\frac{77}{80}$ #6 $\frac{77}{80}$ , Routine maintenance.
		PARADICE AVIATION P.O. BOX 784 NEEDLES, CA 92363 (760) 328-5263		I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. GLENN SIMS IA561840493  Glenn Sims

A. HANSEN  
C. Hansen

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Notes

## ENGINE MAINTENANCE LOG

**Description of Inspection, Repair and Overhaul**  
 Enter here general data with reference to inspections, alterations and repairs and overhaul.  
 ALL DATA must be endorsed with the name, rating and certificate number of either the FAA  
 Repair Station or the mechanic.

DATE	ACCUMULATED TOTALS	
	Hours	10ths
1001		
11 June 01		

Task 789.9 comp ck ad 72/80 or better  
 Spark plug replaced - starter adapter  
 overhauled air filter replaced battery box  
 cleaned & painted left end baffle replaced  
 Rebuilt ADs 7710 22 81-24-06 95-03-14 new  
 by injection

I CERTIFY THIS Engine  
 WAS INSPECTED FAW  
100 W REQUIREMENTS  
 AND FOUND TO BE AIRWORTHY  
 A. HANSEN ARP 1816242  
A. Hansen

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CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG

DATE 200 19	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
11-3-06	Tach 900		Replaced #5 cyl with FCI Serviceable SEP 20 31068-13. Rich Altemeyer A&P 3035110
2-14-07	Tach 922	TSMOK 1422 HRS	T 5811 clw AD 77-13-22 CASE INSPECTION - OK - due again 1022 HR. Comp test #1 76/80 #2 73/80 #3 74/80 #4 75/80 #5 77/80 #6 72/80. changed oil & filter - AEROSHOLL 15W50. This ENGINE has BEEN Inspe IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. Rich Altemeyer A&P 3035110 A.

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG

[illegible]



## ENGINE MAINTENANCE LOG

[illegible]

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
7/15/10	Tach	116	<p>Tsmoh 1669 hrs comp #1 66/80 #2 76/80 #3 79/80 #4 79/80 #5 79/80 #6 66/80</p> <p>clw AD 77-13-22 Visual case inspection, due again 216 HRS</p> <p>oil &amp; Filter change - Aeroshell 15W50</p> <p>This Engine was inspected in accordance with</p> <p>An Annual Inspection and was determined to be in</p> <p>An Airworthy condition R. L. Alender AIP 30351107A.</p>

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



**Description of Inspection, Repair and Overhaul**

Enter here general data with reference to inspections, alterations and repairs and overhaul.  
ALL DATA must be endorsed with the name, rating and certificate number of **either** the FAA  
Repair Station or the mechanic.

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG

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**CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE**



# ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
3-21-2015	TACH. 225.6		
			Compression test #1 74 #2 74 #3 74 #4 76 #5 77 #6 76
			Changed oil 10 qts. 15W50 AND Filter CH48109-1. Cleaned, Gapped
			AND Reinstalled Plugs. Checked Mag timing. Inspected Exhaust
			system. Installed 2 new mufflers P/N B35SM AND B35STM. Checked
			Induction system, Cleaned Air Filter Replaced All Fluid Carrying
			Hose. Checked Controls AND Lubed I certify that this
			Engine has been inspected per 100th / ANNUAL AND is Returned
			to Service AS of this Date.
			John E. Coulter
			402065620 IA

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CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



# ENGINE MAINTENANCE LOG


DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
6-1-16	TACH	263.3	
			Compression test #1 74 #2 76 #3 70 #4 76 #5 76 #6 76
			Changed oil 11 qts. Aeroshell 15W50 AND oil Filter CH48109-1. Inspected
			oil Filter Element. Inspected Exhaust system. Inspected Intake
			System. Cleaned Air Filter. Cleaned, Gapped, tested AND
			Reinstalled SPARK Plugs. Checked MAG. timing. Washed Down
			Engine. I certify that this Engine has been inspected
			per 100 HR/ANNUAL AND is returned to Service As of this
			Date.
			John E. Coulter 402065620 IA

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## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul	
19____	Hours	10ths	Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of <b>either</b> the FAA Repair Station or the mechanic.	
	Make:	Continental	Tach:	285.8
	Model:	IO-520-BA	SMOH:	1838.8
	Serial:	122021-8-B	TTIS:	6227.8
				
DATE: March 20, 2018				
Performed engine run-up and operational checks. Performed cylinder differential compression check as follows:				
	#1) Cracked	#2) 75/80	#3) 64/80	#4) 77/80
				#5) 78/80
				#6) 77/80
<p>Performed borescope inspection of all cylinders, valves and valve seats. Drained oil, replaced oil filter (AA48109) and serviced with 11 quarts Phillips 20W-50. Inspected contents of oil filter element. Removed #1 cylinder, piston and piston pin and installed serviceable cylinder, piston and piston pin assembly (636122) using all new piston rings, gaskets and cylinder base nuts. Replaced exhaust gaskets at cylinders 1,3 &amp; 5 (RA628260) and replaced intake coupling at #1 cylinder (654439-1). Replaced broken exhaust stud #3 cylinder (XXXXXX). Replaced all exhaust nuts on cylinders 1,3 &amp; 5 (MS20500-428). Replaced valve cover gasket #3 cylinder (655528). Replaced points and condenser in L/H magneto (M3081, K3984). Reinstalled L/H magneto with new base gasket (649954). Adjusted magneto timing to 22° BTDC.</p>				
(Continued on next page)				

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



# ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
19____			Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.

Make: Continental

Model: IO-520-BA

Serial: 122021-8-B



Tach: 285.8

SMOH: 1838.8

TTIS: 6227.8

DATE: March 20, 2018

(Continued from previous page)

Status of applicable ADs is as follows:

AD 77-13-22 CW by inspection of crankcase for cracks. Next inspection due 6327.8 TTIS

AD 97-26-17 Crankshaft inspection due at next crankshaft removal or engine O/H

AD 2016-16-12 CW by inspection of cylinder assemblies. Cylinder #5 is the only cylinder to which the AD applies. Cylinder time in service could not be determined. Tach time on effective date of AD was approximately 270 (Pilot Record). Removal of cylinder from service must be accomplished before Tach reads 350.

I certify that this engine has been inspected in accordance with an annual inspection and is airworthy at this time.

Sam Scott AP/IA 3548173



## ENGINE MAINTENANCE LOG

DATE

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UNITED FLIGHT SERVICES

120 Aviation Way. Watsonville, CA 95076

N7867R

August 24, 2018

Tach Time: 304.0

Removed all cylinders & inspected engine internally & found camshaft & lifter faces in good condition. Installed 6 new TCM cylinder kits. Replaced all gaskets & seals. Installed all new induction hoses & clamps. Ultrasonically cleaned fuel injector nozzles. Replaced diaphragm in fuel flow divider. Replaced 1 fuel injector line to #4 cylinder. Installed 12 new URHB32S spark plugs. Removed both magnetos for 500 hour inspections. Disassembled, cleaned & inspected both magnetos. Reassembled both with new contact breaker points & reset internal timing. Lubed bearings & felts. Reinstalled magnetos with new gaskets & timed to engine. Removed alternator & replaced brushes. Polished commutator, reinstalled alternator with new gasket. Changed oil filter and checked old filter for contamination. None found. Serviced engine with Phillips 20W50 and pre-oiled engine with lower spark plugs removed. Adjusted oil pressure regulator. Run up, leak check & ops check good.

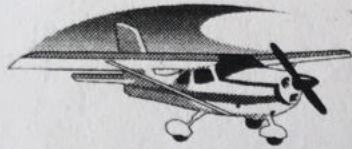
Terence M. McKenna

A&P 569948254 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE



## ENGINE MAINTENANCE LOG



UNITED FLIGHT SERVICES  
120 Aviation Way. Watsonville, CA 95076

N7867R

October 15, 2018

Tach Time: 307.8

Installed 4 new CHT probes, P/N 2852.

Terence M. McKenna

A handwritten signature in black ink, appearing to read 'Terence M. McKenna', written over a circular background that contains the text 'ZERO TIME EQUIVALENT'.

A&P 569948254 IA

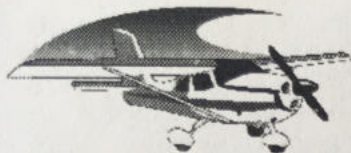
PORTLAND-TROUTDALE AIRPORT  
TROUTDALE, OREGON 97060

THE MARK OF QUALITY

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UNITED FLIGHT SERVICES  
120 Aviation Way, Watsonville, CA 95076

N7867R

January 1, 2021

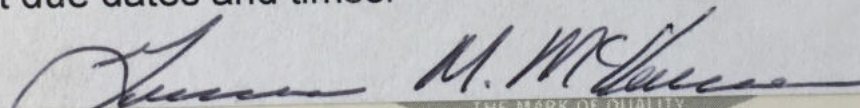
Tach Time: 323.2

TSMOH: 1884.2

Total Time: 6265.2

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 74/80 #2 69/80 #3 71/80 #4 70/80 #5 70/80 #6 74/80. Changed oil and serviced engine with 11 qts Phillips 20w50 X/C. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked and adjusted magneto timing. Soaked and cleaned fuel injection nozzles in ultrasonic cleaner. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Found L/H exhaust collector cracked at previous weld. Installed new L/H exhaust collector. Serviced air filter in accordance with manufacturer's instructions. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

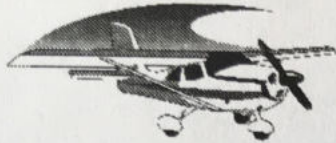
  
THE MARK OF QUALITY

A&P 569948254 IA

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## ENGINE MAINTENANCE LOG



UNITED FLIGHT SERVICES  
120 Aviation Way, Watsonville, CA 95076

February 1, 2022

Tach Time: 351.7 N7867R TSMOH: 1912.7

Total Time: 6293.7

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 69/80 #2 58/80 #3 70/80 #4 66/80 #5 66/80 #6 71/80. Changed oil and serviced engine with 11 qts Phillips 20w50 X/C. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Soaked and cleaned fuel injection nozzles in ultrasonic cleaner. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Fabricated and installed new support brackets and doubler on firewall for L/H exhaust tail pipe hanger. Serviced air filter in accordance with manufacturer's instructions. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Charles Justin Howard

A&P 3278541 IA

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