

Premier Aircraft, 1000 NW Perimeter Way, Troutdale, OR 97060-9524 503-661-4184

Manufacturer Lycoming
Model Number O-320-A2B
Serial Number L-30631-27A

Total Time 5581.76
TSMO 0.00
Tech Time 8859.27

Date 03/04/2011
WO Number 11826

This engine was overhauled in accordance with Lycoming Manual 60294-7-13 revised October 2010 and Table of Limits SSP 1776B, revised January 2011. See following list of parts installed. Engine was run on a test stand.

The starter removed from this engine weighed 16.4 pounds. The starter installed weighs 9.4 pounds. The aircraft weight and balance must be amended by the engine installer.

Accessories

Description	Model Number	Part Number	Serial Number	Condition
Left magneto	S4LSC-21	BL500514-1	D10JA126R	0.0 hours since factory rebuilt.
Right magneto	S4LSC-204	BL600644-1	E10HA066R	0.0 hours since factory rebuilt.
Carburetor	MA-4SPA	10-3678-32	MS369409	0.0 hours since factory rebuilt.
Starter	-	1222NL	CN-261037	0.0 hours since new.

Service Information

Service	Subject	Compliance
SI1267C	Piston pin plugs	Installed new 72198 aluminum bronze piston pin plugs.
SB439A	Connecting rods	Inspected the connecting rods.
SB505B	Crankshaft corrosion	Inspected for corrosion and removed any that was present. Magnetic particle and visually inspected - no defects noted.
SB530B	Painting the crank ID	The ID was painted with Urethabond 104.
SB240V	Replacement parts	Parts were replaced in accordance with Lycoming's recommendations.

Airworthiness Directives

Carburetor

AD Note	Amend #	Dated	B	Subject	Compliance
69-24-03	39-881	11/29/1969	N	Metering passages	N/A by carburetor serial number.
72-06-05	39-5338	07/03/1966	N	Throttle arm	N/A. Serrated style installed.
93-19-04	39-8700	10/18/1993	N	Consolidated float	N/A. Only OEM parts are installed.
98-01-06	39-10270	02/13/1998	Y	Venturi	A one piece venturi is installed. <u>If the engine runs good no further action is required by this AD. If the engine runs rough or experienced power loss corrective action is required in accordance with paragraph (a)(1)(iii) or (ii).</u>
Engine					
55-02-02		02/28/1965	N	Accy. drive adapter	N/A by engine serial number.
59-10-07		07/01/1959	N	Cylinder baffle clamps	The new style cylinder baffle clamps were previously installed.
63-23-02	39-627	08/06/1968	Y	7/16" exhaust valves	N/A. Engine has 1/2" exhaust valves. <u>No further inspection is required by this AD Note.</u>
66-20-04	39-277	08/27/1966	N	Oil filter adapter	N/A by engine serial number.
75-08-09	39-3013	08/18/1977	N	Oil pump drive	The correct drive was previously installed.
87-10-06	39-6293	09/01/1989	N	Rocker arms	N/A by rocker arm part numbers.
92-12-05	39-8265	07/10/1992	N	Piston pin	N/A by piston pin part number.
95-26-02	39-9460	01/24/1996	N	Detonation	N/A by aircraft registration number.
96-09-10	39-9586	07/15/1996	N	Oil pump gears	Installed a gear kit PIN 05K19423S.
97-15-11	39-10085	08/12/1997	N	Piston pins	N/A by piston pin part number.
98-02-08	39-10291	03/30/1998	Y	Crankshaft corrosion	N/A by engine H.P. <u>AD Note requires no further inspection.</u>
98-17-11	39-10713	10/19/1998	N	Nelson crankshafts	N/A. Nelson did not repair this crankshaft.
2004-10-14	39-13644	06/25/2004	Y	Crank & gear	Inspected the crankshaft and dowel pin. Installed a new gear with a new bolt. Torqued bolt to 204 inch pounds and safed. Work was done in accordance with SB 475C. <u>Compliance with this AD is required before further flight if the engine experiences a propeller strike after the effective date of this AD, as defined in paragraphs (i) and (j) of this AD.</u>
2006-12-07	39-14632	07/11/2006	N	ECI cylinders	N/A by cylinder manufacturer.
2007-04-19	39-15005	05/07/2007	N	Superior cylinders	N/A by cylinder manufacturer.
2009-26-12	39-16151	02/04/2010	Y	ECI Cylinders	N/A by cylinder manufacturer. <u>No further action is required by this AD.</u>

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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Airworthiness Directives

Magneto

AD Note	Amend #	Dated	B	Subject	Compliance
74-26-09	39-2050	12/24/1974	N	Solid steel drive	Solid steel drive bushings were installed.
82-20-01	39-4658	06/14/1983	N	Impulse coupling	Tested and found ok.
94-01-03	39-9271	06/28/1995	N	Coil and rotating	N/A by magneto model and part number.
94-06-09	39-8895	05/20/1994	N	Capacitors	N/A by date of factory rebuild.
2005-12-06	39-14122	07/19/2005	Y	Impulse coupling	N/A by engine model.

No further action is required by this AD.

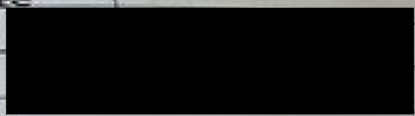
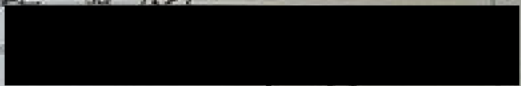
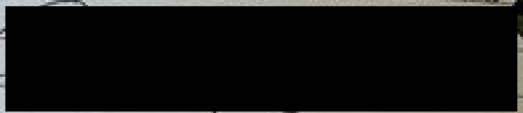
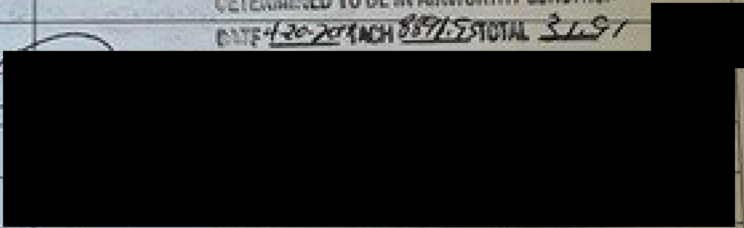
The article identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service in respect to the work that was accomplished. Pertinent details of the repair are on file at this Repair Station under Work Order Number 11826.

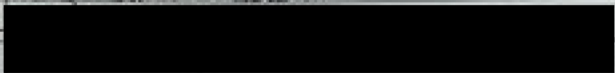
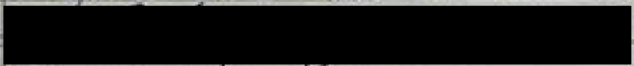
Date: 03/09/2011 Signed

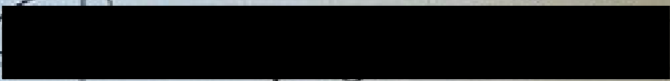
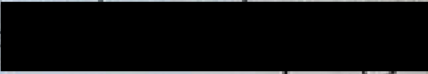
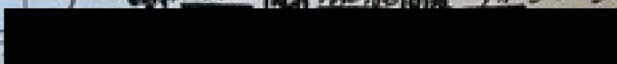
Inspector for Premier Aircraft

List of Parts Installed for Work Order No.: 11826

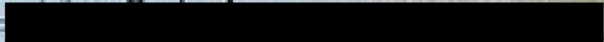
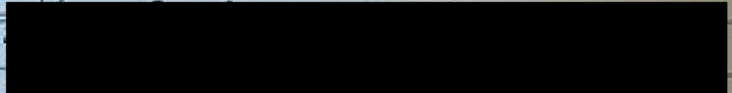
Qty	Part Number	Description	Qty	Part Number	Description
1.0	05K19423S	Oil Pump Gear Kit	1.0	BL600644-1	Factory Rebuilt Magneto S/N: E10HA066R
4.0	05K21237A	Cylinder Kit			
1.0	10-3678-32	Carburetor	8.0	LW12186	Rod Nut
		S/N: M5369409	8.0	LW12892	Teflon Thrust Button
1.0	1028B	Oil Pressure Ball	4.0	LW13790	Rocker Shaft
1.0	122NL	Starter	4.0	LW13923	Rod Bushing
		S/N: CN-261037	8.0	LW15592-5-05	Clamp
1.0	13S19646	Crankshaft Gear	1.0	LW18840	Camshaft
8.0	15B26064	Lifter Body	3.0	LW3110-88	Bolt
2.0	18A26093	Front Main Bearing	1.0	M2364	Harness
4.0	18D26096	Main Bearing	8.0	REM406	Spark Plug
8.0	18M26104	Bearing	4.0	STD1195	Intake Hose
1.0	60882	Starter Ring	1.0	STD1211	Crankshaft Plug
1.0	61084	Oil Pressure Spring	8.0	STD1410	Nut
1.0	68759	Oil Drain Tube	4.0	STD1901	Stud
1.0	69371-1	Gasket Set	1.0	STD2168	Nut
8.0	74637	Rocker Bushing	4.0	STD2180	Drain Tube Hose
8.0	78027	Rod Bolt	1.0	STD2246	Crankshaft Bolt
2.0	AEL71646	Lock Plate	5.0	STD2249	Nut
1.0	BL500514-1	Factory Rebuilt Magneto S/N: D10JA126R	2.0	STD68	Cotter Pin

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
3-13-2011			8859.27	INSTALLED ENGINE ON 1174780. RAN 9 CHECKS FOR LEAKS, TEST FLOW AS PER PREMIER AIRCRAFT REPAIR PROCEDURE 
3-17-2011	9.33	8869.60		CHANGED OIL & CLEANED SCREEN AND SHEET SO NO. 
4-2-2011	28.28	8888.22		SO HOLD INSPECTION COMPLETED 
4-20-2011	31.91	8891.95		ANNUAL INSPECTION COMPLETED. CONTROLS CHANGED, OIL CHANGED & SCREEN CLEANED - AND SHEET SO NO. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>4-20-2011</u> TACH <u>8891.95</u> TOTAL <u>31.91</u> 

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
6-15-2011		79.31	8137.25	50 Hour inspection completed. OIL CHANGED & SCREEN CLEANED. MORE STALLS DOW. 
2-7-2012		130.44	8789.71	ANNUAL INSPECTION COMPLETED. OIL CHANGED & SCREEN CLEANED - PHILLIPS 20W50. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED. SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DATE 2-7-2012 TACH 8789.71 TOTAL 130.44 SAID 
4-20-2012		177.82	9038.04	50 HOUR SERVICE COMPLETED. OIL CHANGED & SCREEN CLEANED - PHILLIPS 20W50 
2-21-2013		223.43	9082.70	100 HOUR / ANNUAL INSPECTION COMPLETED. OIL CHANGED & SCREEN CLEANED - PHILLIPS 20W50. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED. SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DATE 2-21-2013 TACH 9082.70 TOTAL 223.43 

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
4-2-2013			9120.92	50 HOUR INSPECTION COMPLETED. OIL CHANGED & SCREEN CLEANED. PHILLIPS 20050. 
2-17-2014		312.93	9172.2	ANNUAL INSPECTION COMPLETED. OIL & CHANGED & SCREEN CLEANED - PHILLIPS 20050. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED. SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>2-17-14</u> TACH <u>9172.2</u> TOTAL <u>312.93</u> SMOA 
4-8-2014			9223.5	50 HOUR SERVICE COMPLETED OIL CHANGED & SCREEN CLEANED. PHILLIPS 20050 
2-18-2015		411.59	9270.86	ANNUAL INSPECTION COMPLETED. OIL CHANGED AND SCREEN CLEANED - PHILLIPS 20050. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED. SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>2-18-2015</u> TACH <u>9270.86</u> TOTAL <u>411.59</u> SMOA 

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
11-24-2015		145.17	9321.44	50 HOUR SERVICE COMPLETED. OIL CHANGED. SI SCREEN CLEANED - PHILLIPS 20W50. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>50 HR.</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>11-24-15</u> TACH <u>9321.44</u> TOTAL <u>145.17</u> SIGN <u>[REDACTED]</u>
2-9-2016		477.45	9336.72	ANNUAL INSPECTION COMPLETED. OIL CHANGED. AIRB SCREEN CLEANED - PHILLIPS 20W50. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED, SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>2-9-16</u> TACH <u>9336.72</u> TOTAL <u>477.45</u> SIGN <u>[REDACTED]</u>
3-28-2016		526.39	9385.66	50 HOUR SERVICE COMPLETED. OIL CHANGED - SCREEN CLEANED - PHILLIPS 20W50. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>50 HR.</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>3-28-16</u> TACH <u>9385.66</u> TOTAL <u>526.39</u> SIGN <u>[REDACTED]</u>

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
12-12-2016		556.42	9415.69	ANNUAL INSPECTION COMPLETED. OIL CHANGED & SCREEN CLEANED - PHILLIPS 20W50. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED. SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>12-12-16</u> TACH <u>9415.69</u> TOTAL <u>556.42</u> SIGN 
3-13-2017		581.34	9440.61	50 HOUR SERVICE COMPLETED. OIL CHANGED & SCREEN CLEANED - PHILLIPS 20W50. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>50 HR.</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>3-13-17</u> TACH <u>9440.61</u> TOTAL <u>581.34</u> SIGN 
12-11-2017		642.64	9501.91	ANNUAL INSPECTION COMPLETED. OIL CHANGED & SCREEN CLEANED - PHILLIPS 20W50. TIMING & COMPRESSION CHECKED. CONTROLS CHECKED. SPARK PLUGS SERVICED. EXHAUST SYSTEM CHECKED. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION DATE <u>12-11-17</u> TACH <u>9501.91</u> TOTAL <u>642.64</u> SIGN 

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1-17-2019 6239.62 657.86 9517.13

Compressions are as follows, #1 $\frac{78}{80}$, #2 $\frac{78}{80}$, #3 $\frac{78}{80}$, #4 $\frac{78}{80}$. Oil drum checked and cleaned. Oil changed added 8 quarts Phillips XC 20 W50. Plug timing checked, plugs cleaned and checked. Engine has been inspected INW a 100 hour inspection and determined airworthy this date.

8-15-2019 6262.29 680.53 9539.8

Changed oil. to quarts Phillips XC 20 W50

Added.