

Airframe Index
N172RV S/N 172S10116

[Engine Index](#) [Propeller Index](#) [AD](#)
[Index](#)

Airframe Items

100 Hour/Annual Inspection

Cessna Pg. 2 - [11-05-08](#)
Cessna Pg. 4 - [6-29-09](#)

Adlog Pg. 2 - [12-5-09](#)
Adlog Pg. 2 - [8-11-10](#)
Adlog Pg. 3 - [12-2-10](#)
Adlog Pg. 4 - [7-7-11](#)
Adlog Pg. 5 - [2-23-12](#)
Adlog Pg. 6 - [1-3-13](#)
Adlog Pg. 6 - [11-15-13](#)
Adlog Pg. 6 - [10-1-14](#)
Adlog Pg. 7 - [9-3-15](#)

FAR 91.207

Cessna Pg. 4 - [6-29-09](#)

Adlog Pg. 2 - [8-11-10](#)
Adlog Pg. 3 - [12-2-10](#)
Adlog Pg. 4 - [7-7-11](#)
Adlog Pg. 5 - [2-23-12](#)
Adlog Pg. 6 - [1-3-13](#)
Adlog Pg. 6 - [11-15-13](#)
Adlog Pg. 6 - [10-1-14](#)
Adlog Pg. 7 - [9-3-15](#)

FAR 91.411

Cessna Pg. 2 - [7-28-08](#)
Adlog Pg. 3 - [8-7-10](#)
Adlog Pg. 5 - [8-30-12](#)
Adlog Pg. 6 - [9-18-14](#)

FAR 91.413

Cessna Pg. 2 - [7-28-08](#)
Adlog Pg. 2 - [1-21-10](#)
Adlog Pg. 3 - [8-7-10](#)
Adlog Pg. 5 - [8-30-12](#)
Adlog Pg. 6 - [9-18-14](#)

Engine Index
N172RV S/N 172S10116

[Airframe Index](#) [Propeller Index](#) [AD Index](#)

Engine

25 Hour Inspection

Cessna Pg. 3 - [8-11-08](#)

50 Hour Inspection

Cessna Pg. 4 - [3-10-09](#)

Cessna Pg. 5 - [9-14-09](#)

Adlog Pg. 2 - [5-11-10](#)

Adlog Pg. 3 - [10-17-10](#)

Adlog Pg. 3 - [2-28-11](#)

Adlog Pg. 4 - [8-21-12](#),

Adlog Pg. 5 - [1-3-13](#)

Adlog Pg. 5 - [7-15-13](#)

100 Hour / Annual Inspection

Cessna Pg. 4 - [11-5-08](#)

Cessna Pg. 5 - [6-29-09](#),

Adlog Pg. 2 - [1-5-09](#)

Adlog Pg. 2 - [9-11-10](#)

Adlog Pg. 3 - [12-2-10](#)

Adlog Pg. 4 - [7-7-11](#)

Adlog Pg. 4 - [2-23-12](#)

Adlog Pg. 6 - [1-15-13](#)

Adlog Pg. 6 - [10-1-14](#)

Adlog Pg. 6 - [9-3-15](#)

Propeller Index
N172RV S/N 172S10116

[Airframe Index](#) [Engine Index](#) [AD Index](#)

Propeller

100 Hour Inspection

Cessna Pg. 2 - [11-5-08](#)
Cessna Pg. 3 - [6-29-09](#)

Annual Inspection

Adlog Pg. 2 - [12-5-09](#)
Adlog Pg. 2 - [8-11-10](#)
Adlog Pg. 2 - [12-2-10](#)
Adlog Pg. 3 - [7-7-11](#)
Adlog Pg. 3 - [2-23-12](#)
Adlog Pg. 3 - [1-3-13](#)
Adlog Pg. 4 - [11-15-13](#)
Adlog Pg. 4 - [10-1-14](#)
Adlog Pg. 4 - [9-3-15](#)

Airworthiness Directives Index
N172RV S/N 172S10116

[Airframe Index](#) [Engine Index](#) [Propeller Index](#)

Airframe

Airworthiness Directives

AD 73-17-01 Fuel Transfer Pump Placard -
AD 00-04-01 -
AD 08-02-06 GSM 85 Servo Gearbox Units - [6-29-09](#)
AD 08-02-18 Pick-Up Collar Support and Nylon Screws - [1-3-13](#)
AD 08-26-10 Alternate Static Air Source Selector Valve - [5-7-09](#), [12-2-10](#), [1-3-13](#)
AD 12-02-02 Fuel - [1-3-13](#)
AD 12-22-01 Aircraft Fuel Distribution System - [1-3-13](#)
AD 13-03-15 Aircraft Fuel Distribution System - [11-15-13](#)

Repetitive Airworthiness Directives

AD 68-17-04 Stall Warning System -
AD 69-15-03 Muffler Assembly -
AD 71-22-02 Cracks in Nose Gear Fork -
AD 84-26-01 Main Landing Gear Attach Fittings - [6-29-09](#), [12-2-10](#), [1-3-13](#)
AD 01-06-17 - [11-5-08](#), [6-29-09](#), [1-3-13](#), [10-1-14](#), [9-3-15](#)
AD 08-14-07 Lycoming Engine Fuel Line - [8-11-10](#), [12-2-10](#), [7-7-11](#), [2-23-12](#)
AD 11-06-02 Engine - [7-7-11](#), [1-3-13](#)
AD 11-26-04 - [10-1-14](#), [9-3-15](#)
AD 13-11-11 Engine Oil Pressure -

Engine

Airworthiness Directives

AD 66-20-04 - [4-30-08](#)
AD 73-23-01 - [4-30-08](#)
AD 75-08-09 -
AD 75-09-15 - [4-30-08](#)
AD 78-23-10 - [4-30-08](#)
AD 79-04-05 - [4-30-08](#)
AD 81-18-04R2 -
AD 90-04-06R1 - [4-30-08](#)
AD 91-14-22 -
AD 92-12-05 - [4-30-08](#)
AD 92-20-07 -
AD 93-02-05 -
AD 93-05-22 -
AD 93-11-11 -
AD 96-09-10 - [4-30-08](#)
AD 96-23-03 - [4-30-08](#)
AD 86-26-10 - [5-7-09](#)
AD 97-15-11 - [4-30-08](#)
AD 98-17-11 - [4-30-08](#)
AD 98-18-12 -
AD 04-10-14 - [4-30-08](#)
AD 05-26-10 -
AD 06-10-21 -
AD 06-12-07 -
AD 07-04-19R1 -
AD 08-08-14 - [4-30-08](#)
[8-11-08](#)
[11-5-08](#)
AD 08-14-07 - [11-5-08](#)
[6-29-09](#)
AD 08-19-05 - [11-5-08](#)
AD 11-15-10 -
AD 11-26-04 - [1-3-13](#)
AD 12-03-06 - [1-3-13](#)
AD 12-19-01 - [1-3-13](#)
AD 13-19-07 -

Repetitive Airworthiness Directive

AD 98-02-08 - [4-30-08](#),
AD 03-14-03 - [4-30-08](#)
AD 09-02-03 - [3-10-09](#)
[6-29-09](#)
[1-3-13](#)
AD 09-26-12 -

Calendar Index

Month -	Airframe	Engine	Propeller	Avionics	Major Alterations
January -					
2008 -					
2009 -		1-05-09			
2010 -					
2011 -					
2012 -					
2013 -	1-03-13	1-03-13	1-03-13		1-03-13
2014 -		1-15-13			
2015 -					
February -					
2008 -					
2009 -					
2010 -					
2011 -		2-28-11			
2012 -	2-23-12	2-23-12	2-23-12		2-23-12
2013 -					
2014 -					
2015 -					
March -					
2008 -					
2009 -		3-10-09			
2010 -					
2011 -					
2012 -					
2013 -					
2014 -					
2015 -					
April -					
2008 -					
2009 -					
2010 -					
2011 -					
2012 -					
2013 -					
2014 -					
2015 -					
May -					
2008 -					
2009 -					
2010 -		5-11-10			
2011 -					
2012 -					
2013 -					
2014 -					
2015 -					
June -					
2008 -					
2009 -	6-29-09	6-29-09	6-29-09		6-29-09
2010 -					
2011 -					
2012 -					
2013 -					
2014 -					
2015 -					
July -					
2008 -				7-28-08	
2009 -					
2010 -					
2011 -	7-07-11	7-07-11	7-07-11		7-07-11
2012 -					
2013 -		7-15-13			
2014 -					
2015 -					
August -					
2008 -		8-11-08			
2009 -					
2010 -	8-11-10				8-11-10
2011 -					
2012 -		8-21-12			
2013 -					
2014 -					
2015 -					
September -					
2008 -					
2009 -		9-14-09			
2010 -		9-11-10			
2011 -					

2012 -					
2013 -					
2014 -					
2015 -	9-03-15	9-03-15		9-03-15	9-03-15
October -	Airframe	Engine	Propeller	Avionics	Major Alterations
2008 -					
2009 -					
2010 -		10-17-10			
2011 -					
2012 -					
2013 -					
2014 -	10-01-14	10-01-14		10-01-14	10-01-14
2015 -					
November -	Airframe	Engine	Propeller	Avionics	Major Alterations
2008 -	11-05-08	11-05-08	11-05-08		
2009 -					
2010 -			8-11-10		
2011 -					
2012 -					
2013 -	11-15-13			11-15-13	11-15-13
2014 -					
2015 -					
December -	Airframe	Engine	Propeller	Avionics	Major Alterations
2008 -					
2009 -	12-05-09		12-05-09		
2010 -	12-02-10	12-02-10	12-02-10	12-02-10	
2011 -					
2012 -					
2013 -					
2014 -					
2015 -					

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STC's

STC #SA02217AK Installation of Garmin GDL90 UAT Datalink sensor system - Cessna Pg. 1 - [9-26-08](#)

N172RV Photo



Original Record N6330X Page 1

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

This record shall be maintained in accordance with Federal Aviation Regulations 43.161 and 43.163. Note: Record this record in the Maintenance Record Book.

CALIBRATION CARD ALTIMETER			
Standard Alt (FT)	Alt Reading (FT) @ Room Temp	Standard Alt (FT)	Alt Reading (FT) @ Room Temp
-1,000	-20	14,000	-70
0	-5	16,000	-55
500	-10	18,000	-30
1,000	-5	20,000	15
1,500	-5	22,000	
2,000	-5	24,000	
2,500	-5	26,000	
3,000	-5	28,000	
4,000	-15	30,000	
6,000	-25	35,000	
8,000	-40	40,000	
10,000	-65	45,000	
12,000	-70	50,000	

PIN: 4931020-3 C/N: A1356 S/N: 468284
 Date: 5-7-08 Tested By: [Signature] Inspected By: [Signature]
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MAINTENANCE RECORD			AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER																														
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED																															
	HOURS MINUTES																																
07/28	01	E.L.T Battery date expires <u>July 2013</u> Key # <u>261</u> Anoxygenous Discs checked through <u>3028-15</u>																															
07/28	21	Aircraft Airworth: Total Time in Service: <u>21</u> Total Tech time: <u>21</u> Hobbs time: <u>32</u>																															
07/28	21	The G1000 System Software installed in this aircraft is Cessna publication number <u>102508400-06</u> The G1000 System ID Number is <u>224825452</u>																															
07/28	21	<table border="0"> <tr> <td>000000</td> <td>033V10441</td> <td>04/01/2015</td> </tr> <tr> <td>000010</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000020</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000030</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000040</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000050</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000060</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000070</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000080</td> <td>033V10441</td> <td>03/01/2015</td> </tr> <tr> <td>000090</td> <td>033V10441</td> <td>03/01/2015</td> </tr> </table>	000000	033V10441	04/01/2015	000010	033V10441	03/01/2015	000020	033V10441	03/01/2015	000030	033V10441	03/01/2015	000040	033V10441	03/01/2015	000050	033V10441	03/01/2015	000060	033V10441	03/01/2015	000070	033V10441	03/01/2015	000080	033V10441	03/01/2015	000090	033V10441	03/01/2015	<u>Douglas A. Thompson</u> ODAF100129CE
000000	033V10441	04/01/2015																															
000010	033V10441	03/01/2015																															
000020	033V10441	03/01/2015																															
000030	033V10441	03/01/2015																															
000040	033V10441	03/01/2015																															
000050	033V10441	03/01/2015																															
000060	033V10441	03/01/2015																															
000070	033V10441	03/01/2015																															
000080	033V10441	03/01/2015																															
000090	033V10441	03/01/2015																															





MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
MO/DA/YR	HOURS MIN		
8/25/08	2 1	<p>This aircraft has been inspected and found in compliance with the requirements of FAR 21.183 and all associated regulations. The Transponder (N 220071) was inspected and tested on 8/25/08 and is in compliance with the FAR 91.413. The Static Pressure System (see Functional and Repair on 8/25/08) the AOC and Altimeter(s) have been inspected and tested and are in compliance with FAR 91.217 and 91.419 to an altitude of 25,000 feet AOC. The last date of 07/20/08. Alternatively, a 100 hr inspection may be performed on 08/25/08. A Certificate of Airworthiness (date 8/25/08) has been issued by the undersigned.</p>	<p><i>Douglas R. Thompson</i> DOARF100129CE</p>
Reg #: N6330X Model: Cessna 172S Serial: 172S10116 Work Order #: 21080		Hobbs: 74.7 Tach: 63.5 Total Time: 63.5 Date: 9/22/08	
Replaced LH (B) elevator static wick base P/N C592001-0200 & new wick P/N DD1W. For further details see W/O# 21080 on file this station.			
<p><i>Timothy D. Pitts</i> Tim Pitts, Inc. LLC FAA Repair Station AC0R030C</p>			






MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
MO/DA/YR	HOURS MIN		
		<p>Performed 100 hr inspection using Air Care Inc Cessna 172S annual / 100 hr inspection checklist as a guide. C/W AD2300-96-17 by ground run. Check of idle mixture & speed. C/W SB08-73-01 by visual inspection of magneto internal parts. No defects noted. C/W SB08-73-01 by visual inspection. No defects noted. Ground run safe. No defects noted. For further details see W/O# 21137 on file this station. I certify that this engine has been inspected I/A/W a 100 hr inspection and is approved for return to service.</p>	
Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21137		Hobbs: 112.9 Tach: 94.9 Total Time: 94.9 Date: 11/5/08	
<p><i>Timothy D. Pitts</i> Tim Pitts, Inc. LLC FAA Repair Station AC0R030C</p>			

Original Record N6330X Page 3

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

DATE	TO IN/OUT	REGISTRATION	LOG	TIME	SIGNATURE	TYPE
		Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21265		Hobbs: 175.9 Tach: 148.7 Total Time: Date: 3/16/09		
Replaced pilot's & co-pilot's door hold open springs w/ new springs P/N 0517023-1. Ops check normal. For further details see WO# 21265 on file this station.						
For: AIR CARE, INC. FAA Repair Station AC0R030C						
		Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21322		Hobbs: 206.4 Tach: 173.2 Total Time: Date: 5/7/09		
CW AD2008-26-10 by inspection. No defects noted. For further details see WO# 21322 on file this station.						
For: AIR CARE, INC. FAA Repair Station AC0R030C						

MAINTENANCE RECORD						
DATE	TO IN/OUT	REGISTRATION	LOG	TIME	SIGNATURE	TYPE
		Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21334		Hobbs: 212.6 Tach: 177.9 Total Time: Date: 5/21/09		
Performed standby battery high side current calibration I/A/W Garmin G1000 line manual. Ground run. Ops check normal. For further details see WO# 21334 on file this station.						
For: AIR CARE, INC. FAA Repair Station AC0R030C						
		Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21351		Hobbs: 217.9 Tach: 182.3 Total Time: 182.3 Date: 6-4-09		
Replaced tie down rear P/N 0422344-0. For further details see WO# 21351 on file this station.						
For: AIR CARE, INC. FAA Repair Station AC0R030C						

MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE HOURS 130THS	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21375	 Hobbs: 229.0 Tach: 190.6 Total Time: 190.6 Date: 6/29/2009	
		Performed annual inspection using Air Care Inc. Cessna 172S annual inspection checklist as a guide. Performed annual inspection of ELT I/A/W FAR 91.207(d). No corrosion or defects noted. Performed annual inspection of fire extinguisher. No defects noted. AD2008-02-06 N/A by act M/N. C/W AD2001-06-17 by checking idle mixture. Due next at Tach: 290.6. C/W SB09-24-05 by upgrading G1090 software to version 563.14. C/W SB09-45-01 by inspection. No defects noted. C/W SB05-74-01 R1 as Locoming MSD 583A-584B. See engine logbook entry. Replaced nose gear tow both P/N AN5-51A. C/W AD84-28-01 by replacing induction air filter P/N P198281. Due next at Tach: 690.6. Ground run a/c. Systems ops check normal & no leaks noted at this time. For further details see WOF 21375 on file this station. I certify that this act has been inspected I/A/W an annual inspection & is approved for return to service.	
		 Fore-Air Care, Inc. FAA Repair Station AC0R030C	
	Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21415	 Hobbs: 255.9 Tach: 213.1 Total Time: Date: 8/19/2009	SIGNATURE, TYPE & NUMBER
		Replaced all tires. Installed main tires (Condor 6.00 - 6 PR) LH S/N 7289W00565, RH S/N 7311W00013. Replaced nose tire (Condor 5.00 - 5 PR) S/N 4144W00333. For further details see WOF 21415 on file this station.	
		 Fore-Air Care, Inc. FAA Repair Station AC0R030C	
	Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21423	 Hobbs: 255.9 Tach: 213.1 Total Time: Date: 8/25/2009	
		Replaced pilot's door hold open spring P/N 0517023-1. Ops check normal. For further details see WOF 21423 on file this station.	
		 Fore-Air Care, Inc. FAA Repair Station AC0R030C	

Adlog Airframe Pg. 1

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



AIRFRAME MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. _____

Aircraft Mfg. CESSNA Model 172s Serial No. 10776

Engine Mfg. LYCOMING Model IO-360-L2A Serial No. L-34243-01E

Engine Mfg. _____ Model _____ Serial No. _____

Propeller Mfg. MCCABLEY Model 1A170E/PA760 Serial No. ACD23005

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

(All applicable information must be filled in)



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, Adlog Airframe Pg. 2

[Airframe Index](#)
 [Engine Index](#)
 [Propeller Index](#)
 [AD Index](#)

Page No. _____

DATE	TOTAL HOUR SERVICE	TOTAL OR RECORDED HOUR TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
<p>  DATE: 11/25/2009 AIC 104-278.8 10488-108.2 </p> <p> Airframe Entries I & L <small>(1) REMOVED AND REPLACED BOTH LONGER MARKINGS WITH NEW. REMOVED P/N 2071, 2081, 2086 & 2088 (REPL. INSTALLED P/N 2071, 2081, 2086 & 2088). (2) COMPLETED WITH 50 TO 80% OF NEAR HORIZONTAL SPIN INSPECTION. INSPECTION REVEALS PROPOSED CRACK EXHIBITED AT RIGHT NOSE RIB SPIN FRAME. (3) CRACKS AND DISPOSITION HEAT EXCHANGERS CHECKED. REPAIRS: (4) REPAIRS SCREW AND NUT PLATE. (5) REMOVED AND REPLACED RIGHT ELEMENT TP WITH NEW. PAINT AND FINISHED. (6) REMOVED REPAIRS FROM MAIN WINGS AND RECALIBRATED REGISTRATION NUMBER WINGS.</small> </p> <p> <small>The Aircraft, Airframe, Aircraft Engine, Propeller or Apparatus described above were inspected and inspected in accordance with current regulations of the Federal Aviation Administration and is Appointed for general aviation use. The details of the repairs are on file at the repair station unless work order listed herein.</small> </p> <p> DATE: 11/25/2009 SIGNED:  Inspector 2 Work Order: 8766 <small>Printed by Edb 3 (ed3@comcast.com)</small> </p> <p> Reg: N172RV S/N: 172510776 Model: C172 Date: 12/01/09 Make: Cessna Tail: TTAF: 388.50 Make: 100 Model: 100 </p> <p> <small>I certify that the airframe has been inspected in accordance with a 100-hour/Annual Inspection and an AD research was completed.</small> </p> <ol style="list-style-type: none"> 1) C/W 5 1/8" x 3/4" DIA 1/4" Cessna Service Adapter (E24) Sued N/A, no further service required. 2) Right main door window was checked before being replaced and lock tight inspection. 3) Serviced low fuel tank reservoir. <p> <small>The above aircraft is determined to be in airworthy condition. I/NW FAR Part 43 Appendix D(1) and latest rev. service manual and approve for return to service in the completed state.</small> </p> <p> Authorized Signature:  337661 Date: 11/25/09 </p> <p> Make: CESSNA Model: C172s Reg. No: N172RV Order No: 1997 Tail: TTAF: 388.50 Completed: 08/11/10 02:55 S/N: 172510776 </p> <p> <small>Performed annual/100 hour inspection I & W manufacturers service manual.</small> </p> <ol style="list-style-type: none"> 1) Inspected and lubricated flight controls for proper operation. 2) Inspected wheel and brakes. 3) E.L.T inspected IAW far 81.207 appendix D. E.L.T battery dual for replacement 6-2013. 4) CW AD2008-14-07 by visual inspection next due 8-2011 1485.DTTAF. <p> <small>This airframe has been inspected in accordance with an annual/100 hour inspection and was found to be in airworthy condition.</small> </p> <p> Luigi Rondani A&P 3375696 IA  </p>			
SUB-TOTAL this page			
TOTAL-Carry forward to next page			

Adlog Airframe Pg. 3

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

Page No.			
DATE	TOTAL TIME IN SERVICE	TACH ON RECORDING WITH TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK.
TOTAL brought forward from previous page			
Make: Cessna	Model: 172s	Reg. # N172RV	
Date: 12-02-2010	S/N: 172510776	Tach: 483.9	
Airframe Log		Helbs: 615.1	
<p>Performed Annual/100 Hour inspection I.A.W. manufacturer's service instructions and applicable checklist.</p> <ol style="list-style-type: none"> 1) Inspected and lubricated flight controls. 2) Inspected aircraft structure. 3) Inspected landing gear and brake system. 4) ECT inspected I.A.W. FAR 91.207 Appendix D - Battery due for replacement 7-2013 5) C/W AD 2008-14-07 fuel injector line by visual inspection I.A.W. SB3425. Next due 12-2011/583.9 TTAF 6) C/W AD 2008-26-10 alternate static source valve by inspection. 7) C/W AD 84-26-02 induction filter by replacement. Next due 983.9 TTAF 8) Secured nose gear torque links. <p>I certify this Airframe has been inspected in accordance with annual/100 hour inspection and was determined to be airworthy.</p>			
<p>Authorized signature: <i>Luigi Rendon</i> Certification: IA 3375696 Date: 11/12/10</p>			
<p>AIRFRAME LOG May 06, 2011 N172RV Helbs 534.6 Tach 684.7 WORK ORDER # 7566 Replaced R/H MILCO tire tube with new. Serviced tire to correct pressure. <i>Luigi Rendon</i> Gregory Kuczek, AIP 3018736 STRATAFLIGHT AVIATION, INC. 80 AIRPORT ROAD, SUITE 100 MORGENTHAU, NJ 07966 973-539-8110</p>			
SUB-TOTAL this page			
TOTAL-Carry forward to next page			

Page No. _____

DATE	TOTAL TIME IN SERVICE	TACHON RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
	Make: Cessna	Model: 172S	Reg# N172RV
	Date: 07-07-11	S/N: 172S10776	Tach: 583.9
	Airframe log		Hobbs: 0746.6
Performed Annual/100 hour inspection I.A.W. manufacturer's service instructions and applicable checklist.			
1) Inspected and lubricated flight controls. 2) Inspected landing gear and break system. 3) EIT inspected I.A.W. FAR 91.207 appendix D. Battery due 7-2013 4) C/W AD 2008-14-07 fuel injector line by visual inspection. 5) AD 2011-06-02 not applicable due to parts not installed. 6) Replaced copilots door stay with new.			
I certify this airframe has been inspected in accordance with Annual/ 100 hour inspection and was determined to be airworthy.			
Authorized Signature: <i>Lewis Roads 7-7-11</i>			
Certification # : IA 3375696			
The Pennsylvania State University University Park Airport 2701 Fox Hill Road State College, PA 16803			
Date: 9/19/2011; Aircraft: N172RV; Hobbs: Tach: 619.70; Total Time: 619.70; Engine - Type: , S/N: , Time:; Prop - Type: , S/N: WO# RA16218 (1) Replaced pilots push to talk switch . P/N. S2870-1 (2) Ops checked good. I certify that the work performed above on this airframe/engine has been inspected and determined to be an airworthy condition for The Pennsylvania State University.			
Authorized Signature <i>Steve Pfeifer</i> Chief Inspector CRSE# OUIR387K			
SUB-TOTAL #this page _____			
TOTAL-Carry forward to next page _____			

Page No.			
DATE	TOTAL TIME BY SERVICE	TACH OR RECORDER METERS TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
	N172RV Model: IO 360-L2A	S/N 172S10776 Date: 10/20/11	Tach: 637.8 Hobbs: 816.4
<p>Performed Oil change on this date. Drained oil removed and replaced oil filter. Cut filter open, no metal particles noted. Serviced Engine with Rqts. Exxon Elite 20W50. Performed engine run, no oil leaks noted.</p> <p>A&P 3375696 1A Luigi Rondon <i>Luigi Rondon</i></p>			
<p><i>Fleet Air Services</i> 75 Hangar Road Hibbs Lake, New York 12786 2/23/2012</p> <p>MAKE - Cessna MODEL - 172S REG - N172RV S/N - 172S10776 Hobbs: 881.70 Tach: 684.10</p> <p>Performed Annual/100 hour inspection this date in accordance with Cessna service instructions and applicable checklist. Opened all panels and inspected structure. Checked electrical system. Replaced main ship battery with new unit P/N G241. Removed, serviced and reinstalled standby battery. Inspected landing gear and brake systems. Cleaned and greased wheel bearings. Serviced NLG Struts. All routine maintenance performed at this time. Tested ELT per FAR 91.207 Appendix D. Battery next due June 2013. CW ADD008-14-07 Fuel injector line inspection. CW SB11-24-02 by installing new Avionics master switch P/N S3443-1-1.</p> <p>I certify that this airframe has been inspected IAW an annual inspection and found to be in airworthy condition at this time.</p> <p>John Nichols <i>John Nichols</i> AP 131644050LA</p>			
<p><small>MAINT ORGANIZATION: Advanced Aircraft Services DATE: 02/23/2012</small> <small>MODEL: 172S 100 Airport Rd 100 TBS</small> <small>S/N: 172S10776 Hibbs Lake, NY 12786 NY</small> <small>WORK ORDER: 100-172S PHONE: 518-798-8278 FAX: 518-798-8278</small></p> <p>Airframe Entries Removed and replaced the Garmin standby batteries. S/N installed 12/108. Ops check good.</p> <p>Maintenance Release The aircraft and/or component(s) on N172RV was/were inspected in accordance with the requirements and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was released to flight.</p> <p>DATE: 10/20/2011 SIGNED: <i>John Nichols</i> WORK ORDER: 2010-10-2012 <small>John T. Hays, A&P 18254468 (Printed by EASA 3 (easaonline.com))</small></p>			

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TOTAL-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	FACH OR RECORDING METHOD TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK				
TOTAL brought forward from previous page							
Private Flight Northeast 75 Hangar RD White Lake NY, 12786 (845) 583-4400 Cessna 172S N172RV S/N: 172S10776 Hobbs Time: 1443.1							
03, September 2015 1. Completed Annual Inspection IAW Cessna Aircraft 100hr/Annual Inspection checklist and FAR 43 Appendix D. 2. Opened all inspection panels, removed cowling and wheel pants. 3. Lubricated airframe as required. 4. Checked control cables with proper tension found. 5. Cleaned, inspected and re-packed all wheel bearings as required. 6. Inspected landing gear with no defect noted. 7. Removed interior and all interior panels for inspection. 8. Visually inspected airframe and components with no defects noted. 9. Removed E.I.T inspected for condition and proper operation IAW FAR 91.207. Main battery expiration date 01/2018. 10. Complied with AD2011-26-04 Fuel injector linesby inspection with no defect noted. 11. Complied with AD2001-06-17 Idle mixture check with proper condition noted. 12. Completed AD search and complied with all outstanding AD's as required. Reference AD list dated 09/15. 13. Closed all inspection panels. Installed wheel pants and cowls. <i>I certify this Aircraft was inspected in accordance with an Annual Inspection and found to be in an airworthy condition.</i> James T. Morley A&P3166872IA <i>James T. Morley</i>							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; border: 1px solid black;"> </td> <td style="border: 1px solid black;">SUB-TOTAL this page</td> </tr> <tr> <td style="width: 10%; border: 1px solid black;"> </td> <td style="border: 1px solid black;">TOTAL-Carry forward to next page</td> </tr> </table>					SUB-TOTAL this page		TOTAL-Carry forward to next page
	SUB-TOTAL this page						
	TOTAL-Carry forward to next page						

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

INSTRUCTIONS

This record should be completed and maintained in accordance with FAA Federal Aviation Regulations 43.9, 43.11 and 91.173 and/or other prevailing government regulations.

NOTE: Record Service Bulletins and Airworthiness Directives in the back of this record as well as the Airframe Maintenance Record.

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MAINTENANCE RECORD			AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED
	HOURS	MINS	
9/20/08			172-105776
06/02			

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by LYCOMING specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL: **IO-360-L2A** SERIAL NO. **L-34243-51E**


DATE: 4/20/08 Charles New
(AUTHORIZED REPRESENTATIVE)

LYCOMING **LYCOMING ENGINES**
502 Oliver Street Williamsport, PA 17701 U.S.A.

Form No. 777-B (Rev. 9/02)

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

MAINTENANCE RECORD				
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	MIN		
2/27/08	2	1	Engine model IO-360-L2A, S/N <u>L-31213-516</u> has been installed on aircraft # <u>172B10776</u> with TTAF <u>21</u> , TTSN was <u>21</u> . This engine serviced with Phillips Aviation oil type M 20W/50 weight.	<i>Douglas Thompson</i> ODARF100128CE

MAINTENANCE RECORD			
DATE	Cessna Independence Facility One Cessna Boulevard • Independence, KS 67301 • Repair Station 67R706N		 AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	Date: 24-Jul-2008	Aircraft Serial: 172S19776	Registration: N4129G
	Service Order: 2-08196	Techn: 2.1	Helibs: 3.2
	Powerplant Log Entry		
	[ITEM 2]- Complied with Unison Service Bulletin SB2-08 and Lycoming Service Bulletin 583 per detailed instruction in Unison Service Bulletin SB2-03. No defect noted. (LH magnets S/N 08021965/191 magnets S/N 08021965). Next inspection due at 102.1 hours of engine operation or annual inspection, whichever comes first. Engine S/N L-4129G-51E.		
	[ITEM 3]- Complied with Unison Service Bulletin SB3-08 and Lycoming Service Bulletin 584 per detailed instruction in Unison Service Bulletin SB3-03. No defect noted. (LH magnets S/N 08021965 P/N 860C225P/N3). Next inspection due at 171-22.1 hours of engine operation.		
	[ITEM 4]- Complied with Unison Service Bulletin SB3-08 and Lycoming Service Bulletin 584 per detailed instruction in Unison Service Bulletin SB3-03. No defect noted. (RH magnets S/N 08021965 P/N 860C225P/N3). Next inspection due at 171-22.1 hours of engine operation.		
	[ITEM 5]- Aircraft was ground tested after service with no defects noted. ---END OF ENTRY---		
	The aircraft, airframe and/or appliance identified was inspected and repaired in accordance with current regulations of the Federal Aviation Administration and is approved for RETURN TO SERVICE. Pertinent details of the repair/inspection are on file at the repair station. S/O: 2-08196. Repair Station: 67R706N.		
	Inspector Signature and Date: <i>[Signature]</i> 7-27-08		

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

MAINTENANCE RECORD				
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21024	 Hobbs: 31.7 Tach: 26.4 Total Time: 26.4 Date: 8/11/08
			Drained oil & removed filter. Took SOAP sample. Cut open filter. No metal noted. Installed 8 qts Phillips 20-50M. Installed quick drain P/N P5000. C/W SB 583A by inspection. No defects noted. Next due at Tach: 126.4 or annual whichever occurs first. C/W SB 584A by inspection. No defects noted. Next due at Tach: 526.4 or next annual whichever occurs first. Tightened dipstick tube & safed. For further details see WOI# 21024 on file this station.	 For: Air Care, Inc. FAA Repair Station AC0R030C
			Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21024	 Hobbs: 31.7 Tach: 26.4 Total Time: 26.4 Date: 8/11/08
			C/W AD2008-08-14 by inspection. No defects noted. Due at next oil change or Tach: 76.4 whichever occurs first. For further details see WOI# 21024 on file this station.	 For: Air Care, Inc. FAA Repair Station AC0R030C
			Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21046	 Hobbs: 57.7 Tach: 49.9 Total Time: Date: 8/25/08
			Changed oil & filter. Took SOAP sample. Cut open & inspected oil filter. No metal noted. Installed new filter P/N C348110-1. Serviced w/ 8 qts Ameshell 15W50. C/W AD2008-08-14 by inspection. No defects noted. Due at next oil change or Tach: 99.9 whichever occurs first. Washed engine. Ground run aft. Ops check normal & no leaks noted at this time. For further details see WOI# 21046 on file this station.	 For: Air Care, Inc. FAA Repair Station AC0R030C

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

MAINTENANCE RECORD			
DATE	TIME	DESCRIPTION	SIGNATURE JOB TYPE MFR
		<p>Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21137</p> <p>AIR CARE INC. Aviation Services</p> <p>Hobbs: 112.9 Tach: 94.9 Total Time: 94.9 Date: 11/5/08</p> <p>ETT: 94.9 Performed 100 hr inspection using Air Care Inc Cessna 172 annual - 100 hr inspection checklist as a guide. Performed compression check w/ following results: #1) 78.80 #2) 79.80 #3) 78.80 #4) 76.80. Removed oil & filter. Took SOAP sample & cut open filter. No metal noted. Installed new CH48110-1 filter & serviced w/ 8 qts of Aeroshell 15W-50 oil. C/W AD2008-08-14 by visual inspection. No defects noted. C/W AD2008-14-07 by visual inspection. No defects noted. C/W AD2008-19-05, AD N/A no ECI cylinders installed. Ground run. Ops check normal and no leaks noted. For further details see W/O# 21137 on file this station. I certify that this engine has been inspected IAW a 100 hr inspection and is approved for return to service.</p> <p><i>Timothy D. Roberts</i> For: Air Care, Inc. FAA Repair Station AC0R030C</p>	
		<p>Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21259</p> <p>AIR CARE INC. Aviation Services</p> <p>Hobbs: 173.2 Tach: 148.4 Total Time: Date: 3/10/09</p> <p>Changed oil & filter. Took SOAP sample. Cut open & inspected filter. No metal noted. Installed new filter P/N CH48110-1. Serviced w/ 8 qts Aeroshell 15W50. Washed engine. C/W AD2009-02-03 by inspection. No defects noted. Due at next oil change or Tach: 196.4 whichever occurs first. Ground run acft. Ops check normal & no leaks noted at this time. For further details see W/O# 21259 on file this station.</p> <p><i>Timothy D. Roberts</i> For: Air Care, Inc. FAA Repair Station AC0R030C</p>	
		<p>Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: 21322</p> <p>AIR CARE INC. Aviation Services</p> <p>Hobbs: 206.4 Tach: 173.2 Total Time: Date: 5/7/09</p> <p>C/W AD2008-26-10 by inspection. No defects noted. For further details see W/O# 21322 on file this station.</p> <p><i>Timothy D. Roberts</i> For: Air Care, Inc. FAA Repair Station AC0R030C</p>	

MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE		AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
HOURS	MIN	SEC	
			<p>Reg #: N6330X Habbs: 239.0 Model: Cessna 172S Tach: 190.6 Serial: 172S10776 Total Time: 190.6 Work Order #: 21375 Date: 6/29/2009</p> <p>ETT: 199.6 Performed 100 hour inspection using Air Care Inc Cessna 172S 100 hour inspection checklist as a guide. Changed oil & filter. Took SOAP sample. Cut open & inspected filter. No metal noted. Installed new filter P/N CH48110-1. Serviced w/ 8 qts Aeroshell 15W50. Checked compression: #1) 74.80 #2) 73.80 #3) 76.80 #4) 74.80. C/W Lycoming MSB 584A/584B by inspection. No defects noted on LH mag. Replaced RJI mag distributor block Assy P/N K3822 (dated 2/2/09). Provides terminating action for MSB 584B (RJI only) MSB 583A due at annual or Tach: 290.6 whichever occurs first. MSB 584B due at annual or Tach: 690.6 whichever occurs first. C/W AD2006-14-07 by inspection. No defects noted. Due next at Tach: 290.6. C/W AD2009-02-03 by inspection. Plug stamped "G". Provides terminating action. Recurring inspection N/A. Replaced spark plugs P/N REM38E. Washed engine. Ground run a/cft. Ops check normal & no leaks noted at this time. For further details see WCR 21375 on file this station. I certify that this engine has been inspected I/A/W a 100 hour inspection & is approved for return to service.</p> <p><i>Timothy D. [Signature]</i> TDS-AP, Inc., Inc. FAA Repair Station ACBR030C</p>

MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE		AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
HOURS	MIN	SEC	
			<p>Reg: N6330X SN: 172S10776 Model: 172S Date: 06/14/09 Make: Cessna Tach/TAF: 190.6 Habbs: 367.1</p> <p>I certify that following work has been done I/A/W the latest MM and is in airworthy condition.</p> <p>The following work was performed at this time.</p> <p>1. Engine oil drained and filter removed and replaced with 7qts. OC 15-50W aero shell oil and CH48110-1 oil filter. Leak check good.</p> <p>This engine is determined to be in airworthy condition and approved for return to service I/A/W latest manufacturers service manual and FAA Regulations for this work performed.</p> <p>Authorized Signature: <i>[Signature]</i> Certification: <i>[Signature]</i> Date: 6/29/09</p>

Record of Accessories and Major parts shipped with engine

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



652 Oliver Street Williamsport, PA 17701 U.S.A.

RECORD of ACCESSORIES
AND
MAJOR PARTS SHIPPED with ENGINE

Model No: **IO-360-LZA** Serial No: **L-34243-51E** Enpl: **ENPL-RT10437**
Order No: **AR316850** TC No: **1E10** Date: **4/30/2008**

Part Name	Part Number	Manufacturer	Serial	Setting
CARBURETOR				
INJECTOR	61J22088	PAM	70CU5008	2576536-2
LT ALTERNATOR RT ALTERNATOR				
MAGNETO LEFT	66GC20SFNN	SLICK	08021965	
MAGNETO RIGHT	66GC20SFNN	SLICK	08021966	
MAGNETO DUAL LASER IGN CONTR				
STARTER	31B23592	SKY-TEC	FN-1008105	
FUEL PUMP	LW-15473	LYC	1208 DC	
IGN HARNESS L	67P20409	SLICK		
IGN HARNESS R	67P20408	SLICK		
LASER IGN HARNESS				
SPARK PLUG	1182-E7	Champion		
LT TURBOCHARGER RT TURBOCHARGER				
BYPASS VALVE				
DENSITY CONTR.				
PRESS. CONTR.				
AB PRESS REL.				
#1 INTERCOOLER				
#2 INTERCOOLER				
CRANKCASE MATCH NO. K0870		CRANKSHAFT SERIAL NO. V537951551		

All accessories listed are 0 (zero) time since New or 0 (zero) time since Overhaul
All accessories are new unless part number is succeeded by -80 or -70.

Released: Inspector  Date: **4/30/2008** C of A Issued Date: 

NOTE: Form to be used on all New, Overhauled, Rebuilt Engine Models.

Form ET-001 (REV 03/05)

Airworthiness Directive compliance list

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)


LYCOMING AIRWORTHINESS DIRECTIVE COMPLIANCE LIST
A Textron Company
4/30/08

652 Oliver Street Wilkes-Barre, PA 17701 U.S.A.
Engine Model No: **IO-360-L2A** Engine SN: **L-34243-51E** Page 1 of 2

AD NO. / SB	RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
2002-08-01 / 342	E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL. NEW LINES INST. WITH NEW CLAMP	100 HOURS		X	1	3
2004-10-14 / 475	C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES NEW PIN INSTALLED	N/A		X	1	3
2005-19-11 / 565		Crankshaft replacement Replace Crankshaft	N/A		X	1	3
2006-08-14 / 561		REVISION OF FRODOX AIRFLOVE HOX Plug in regulator cover REVISION per latest revision PFB-107	50 HOURS		X	1	3
71-05-02 / 327	C	INSPECTION OF CENTER MAIN BEARING NEW INSTALLED	N/A		X	1	3
71-11-02 / 328		REPLACEMENT OF EXH & INT HYD TAPPET PLUNDERS NEW PIN HYD TAPPETS INSTALLED	N/A		X	1	3
73-23-01 / 367	F	INSP FOR CRACKS IN PISTON PINS INST NEW PARTS	N/A		X	1	3
75-06-15 / 382		BENDIX FUEL INJ BULLET INSP OF MOD OF FLOW GUIDERS NEW PIN GASKET INSTALLED	N/A		X	1	3
84-06-09 / 617		RECOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS NEW CONF. CAPACITORS INSTALLED	N/A		X	1	3
86-09-10 / 524		REPLACEMENT OF OIL PUMP IMPELLERS STEEL IMPELLERS INSTALLED	N/A		X	1	3
86-23-03 / 529	A	HIGH PRESSURE FUEL PUMP INSTALLED LW-16475 NEWLY MANUFACTURED PUMPS INST	N/A		X	1	3
87-15-11 / 527	C	RECALL OF PISTON PIN PIN LW-14877 NEW CONFIGURATION PIN INST	N/A		X	1	3
88-02-06 / 530	A	INSPECTION OF CRANKSHAFT ID FOR CORROSION MAG INSP APPLY URETHANE 104	N/A		X	1	3
2002-12-07 / 543	B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT NEW PIN CONVERTER PLATE INSTALLED	N/A		X	2	
2003-14-03 / 529	B	ROTARY FUEL PUMP TORQUE NEW PUMP WITH "M" BUFFS INSTALLED	N/A		X	2	
2006-06-16 / 565 Sup 1		Replace crankshaft Crankshaft replaced	N/A		X	2	
2006-20-09 / 569	A	CRANKSHAFT REPLACEMENT REPLACE CRANKSHAFT	N/A		X	2	

Codes:
1 AD Applicable to Engine
2 AD Not Applicable to Engine
3 Field Compliance where applicable

FORM PAWR (REV. 11/06)




LYCOMING AIRWORTHINESS DIRECTIVE COMPLIANCE LIST
A Textron Company
4/30/08

652 Oliver Street Wilkes-Barre, PA 17701 U.S.A.
Engine Model No: **IO-360-L2A** Engine SN: **L-34243-51E** Page 2 of 2

AD NO. / SB	RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
84-18-05 / 298	Inactive	AC FUEL PUMP OIL SEAL NEW CONF. FUEL PUMP INSTALLED	N/A		X	2	
85-06-03 / 302	A	REPLACEMENT OF CONNECTING ROD ASSY. NEW ROD CONFIGURATION	N/A		X	2	
86-20-04 / 307		OIL FILTER ADAPTER GASKET NEW CONF. GASKET INSTALLED	N/A		X	2	
87-22-06 / 308	B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY NEW OR NEWLY QH INSTALLED	N/A		X	2	
78-23-10 / 428		BENDIX FUEL INJ BULLET IN RS-42 NEW PIN INSTALLED	N/A		X	2	
79-04-05 / 433	A	BENDIX FUEL INJ BULLET IN RS-47 NEW PIN INSTALLED	N/A		X	2	
87-10-00 / 477	R1	INSPECTION AND REWORK OF LW-18700 ROCKER ARM ASSY NEW CONFIGURATION PIN INST	N/A		X	2	
80-04-06 / 488	R1	PROPELLER GOVERNOR LINE SUPPORT NEW LINE W/STEEL CON. NUTS INS	N/A		X	2	
92-12-05 / 501	B	LW-14877 PISTON PIN NEW PARTS INSTALLED	N/A		X	2	
93-14-15 / N/A		INST OF PLKARD IDENTIFY OPER. NOT TO EXCEED 33.8MG FIELD COMPLIANCE AFTER 5TC	N/A		X	2	
94-01-03 / N/A	R2	DEFECTIVE IGN COILS AND ROTATING MAGNETS NEW CONFIGURATION PART INST	N/A		X	2	
95-07-01 / N/A		CONNECTING ROD BOLT FAILURE LYCOMING PART INSTALLED	N/A		X	2	
95-26-02 / 398		ENGINES OPERATED WITH LOW-OCTANE FUEL ENGINE IS NEW OR HAS BEEN REBUILT AT MANUFACTURER	N/A		X	2	
88-17-11 / N/A		CRANKSHAFT REPAIRED BY NELSON BALANCING SERVICE MAGPARTICLE INSP OF CRANKSHAFT	N/A		X	2	

Codes:
1 AD Applicable to Engine
2 AD Not Applicable to Engine
3 Field Compliance where applicable

FORM PAWR (REV. 11/06)





ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. _____

Engine Manufacturer LYCOMING

Model IO-360-L2A

Serial No. L-34243-51E

Date installed on aircraft 7/28/08

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |



(All applicable information must be filled in)

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Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METERS TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Reg N178V Make: Cessna	SN: 17210776 Tach/T: 0-286.0	Model: 172 Make: 182.1	Date: 12/6/99	
I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.				
The following work was performed at this time:				
<ol style="list-style-type: none"> 1. Compression check A1 72, A2 72, A3 72, A4 72 2. Engine oil drained and filter removed and replaced with 7qt. OF 15-WW auto shell oil and C186110-1 oil filter. Leak check good. 3. Magneto timing is set to data tag on engine as required. 4. Spark plugs removed, inspected, and reinstalled. 5. #1 intake leaking, replaced gaskets. 6. AD research completed. 				
This engine is determined to be in airworthy condition and approved for return to service IAW latest manufacturers service manual and FAA regulations for this work performed.				
Authorized Signature: <i>[Signature]</i> Certificate: 3375896 Date: 12/6/99				
Make: CESSNA Date: 05/11/10 00:00 Engine Log	Model: C172s S/N: 172S10776 Type: IO-360-L2A	Reg No: N172RV Tach Time: 338.20 S/N: L-34243-51E		
TTAF: 421.20				
1) Engine oil was drained and filter removed. Installed new oil filter CH4811D-1, serviced engine with 8 Qts. of Exxon Elite 20W-50.				
Authorized Signature: <i>[Signature]</i> Certificate: I.A. 3375896 Date: 05/11/10				
Make: CESSNA Date: 05/11/10 00:00 Engine Log	Model: C172s S/N: 172S10776 Type: IO-360-L2A	Reg No: N172RV Tach Time: 388.60 S/N: L-34243-51E		
Performed annual/100 hour inspection IAW manufacturers service manual inspected and lubricated engine controls for proper operation				
Performed compression check 75/80 75/80 75/80 74/80				
Serviced spark plugs. Drained oil. Removal of filter, inspected oil filter for contaminants none found. Installed new oil filter and serviced engine with 8 qts of 20W50 Exxon elite.				
Removed and replaced #2 and #3 induction passages.				
Performed post maintenance ground run up. Satisfactory no leaks noted at this time.				
This Engine has been inspected in accordance with an annual/100 hour inspection and was found to be in airworthy condition				
Largo Rendon A&P 3375896 IA <i>[Signature]</i>				
SUB-TOTALS this page				
TOTALS -Carry forward to next page				

Page No. _____							
DATE	TOTAL TIME BY SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR PROPELLER METER TIME				
DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK							
TOTALS <small>(Carry forward from previous page)</small>							
Make: Cessna Date: 10-17-2010 Lycoming IO-360-L2A	Model: 172s S/N: 172510776 Eng. S/N: L-34243-51E	Reg. # N172RV Tach: 431.0 Hobbs: 542.8					
1) Performed engine oil change. Oil sample taken, installed new filter P/N CH48110-1. Serviced engine with 8qts. Of Exxon Elite 20W50. 2) Replace all sparkplugs with new.							
Authorized signature: <i>Luisi Rendon</i> Certification: I.A. 3375696 Date: 10/17/10							
Make: Cessna Date: 12-02-2010 Lycoming IO-360-L2A	Model: 172s S/N: 172510776 Eng. S/N: L-34243-51E	Reg. # N172RV Tach: 483.9 Hobbs: 615.1					
Performed Annual/100 Hour Inspection I.A.W. Lycoming's operator manual section 4 and applicable checklist. 1) Inspected and lubricated engine controls. 2) Drained oil, Removed oil filter and inspected for contaminants none found. Installed new oil filter. 3) Serviced engine with 8 qts Exxon Elite 20W50. 4) Performed Compression check 175/80 2372/80 3173/80 4175/80 5) Serviced spark plugs. 6) Timed left and right magnetos to engine specification. Performed satisfactory post maintenance ground run-up.							
I certify this Engine has been inspected in accordance with annual/100 hour inspection and was determined to be airworthy.							
Authorized signature: <i>Luisi Rendon</i> Certification: I.A. 3375696 Date: 12/12/10							
Make: Cessna Date: 2-28-2011 Lycoming IO-360-L2A	Model: 172s S/N: 172510776 Eng. S/N: L-34243-51E	Reg. # N172RV Tach: 505.5 Hobbs: 644.8					
1) Performed engine oil change. Oil sample taken, installed new filter P/N CH48110-1. Serviced engine with 8qts. Of Exxon Elite 20W50.							
Authorized signature: <i>John Hernandez</i> Certification: I.A. 3151373 Date: 2/28/11							
<table border="1" style="width: 100px; margin: auto;"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> TOTALS —Carry forward to next page							

Page No.				
DATE	TOTAL TIME BY SERVICE	TOTAL TIME SERVICE OVERHAUL	RECORDING METHOD TIME	DESCRIPTION OF WORK PERFORMED... SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
				Engine Model: ADVANCED Advanced Aircraft Services Engine S/N: L3695-016 Hull No. 252078 NMAC Certificate: 146119-1786 Phone: 713-816-3131 Date: 04/15/2010 Signature: [Signature] Work Order: 2009-10-2012 Printed by: EDA 3 (jetcentermedia.com)
				Engine Entries Annual 100% Engine Inspection completed using FAR 43 Appendix D. Compression check (WRO) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15. Checked and replaced the oil, removed and replaced the oil filter, installed a new oil filter and serviced the engine with 7 quarts of Exxon Elite 20W-50. Checked, adjusted and tested the spark plugs. Checked the fuel injector nozzles. Checked the mag timing. Fuel run-up before start good. All Advs correct per 2512.29. AD 2012-18-01 (Carburetor) N/A per 2512.29. AD 2012-08-08 (Engine) N/A per 2512.29. AD 2012-03-15 (Fuel Injection System) AD 2008-01-18 (EC) Cylinders N/A per 2512.29. AD 2009-02-03 (Fuel Injection System) AD 2008-01-18 (EC) Cylinders N/A per 2512.29. I certify that this ENGINE has been inspected within an Annual Inspection period and was found to be in Airworthy condition.
				Solberg Aviation Co. Inc. Solberg Airport P. O. Box 15 Readington, NJ 08870 908-514-4008 Date: July 15, 2011 N172KV S/N 10776 Tach. Reading 845.5 Changed oil and filter. Filled with 8 qts. Exxon Elite. Replaced lower left cowling mount, 1 ea. P/N J7444-42. Took oil sample for owner. Ops check OK. Sherman Kettle License No. 0497 1724000.01
				Engine Model: ADVANCED Advanced Lancaster LP Engine S/N: L3695-016 Hull No. 252078 NMAC Certificate: 146119-1786 Phone: 713-816-3131 Date: 04/15/2010 Signature: [Signature] Work Order: 2009-10-2012 Printed by: EDA 3 (jetcentermedia.com)
				Engine Entries Annual 100% Engine Inspection completed using FAR 43 Appendix D. Compression check (WRO) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15. Checked and replaced the oil, removed and replaced the oil filter, installed a new oil filter and serviced the engine with 7 quarts of Exxon Elite 20W-50. Checked, adjusted and tested the spark plugs. Checked the fuel injector nozzles. Checked the mag timing. Fuel run-up before start good. All Advs correct per 2512.29. AD 2012-18-01 (Carburetor) N/A per 2512.29. AD 2012-08-08 (Engine) N/A per 2512.29. AD 2012-03-15 (Fuel Injection System) AD 2008-01-18 (EC) Cylinders N/A per 2512.29. AD 2009-02-03 (Fuel Injection System) AD 2008-01-18 (EC) Cylinders N/A per 2512.29. I certify that this ENGINE has been inspected within an Annual Inspection period and was found to be in Airworthy condition.
				Engine Model: ADVANCED Advanced Lancaster LP Engine S/N: L3695-016 Hull No. 252078 NMAC Certificate: 146119-1786 Phone: 713-816-3131 Date: 04/15/2010 Signature: [Signature] Work Order: 2009-10-2012 Printed by: EDA 3 (jetcentermedia.com)
				Engine Entries Annual 100% Engine Inspection completed using FAR 43 Appendix D. Compression check (WRO) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15. Checked and replaced the oil, removed and replaced the oil filter, installed a new oil filter and serviced the engine with 7 quarts of Exxon Elite 20W-50. Checked, adjusted and tested the spark plugs. Checked the fuel injector nozzles. Checked the mag timing. Fuel run-up before start good. All Advs correct per 2512.29. I certify that this ENGINE has been inspected within an Annual Inspection period and was found to be in Airworthy condition.
				Engine Model: ADVANCED Advanced Lancaster LP Engine S/N: L3695-016 Hull No. 252078 NMAC Certificate: 146119-1786 Phone: 713-816-3131 Date: 10/10/2014 Signature: [Signature] Work Order: 2010-09-2014 Printed by: EDA 3 (jetcentermedia.com)

Page No. _____			
DATE	TOTAL TIME SERVICE	TOTAL TIME ENGINE OVERHAUL	TOTAL TIME RECORDING AFTER TIME
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK			
TOTALS brought forward from previous page			
Private Flight Northeast 75 Hangar RD White Lake NY 12786 (845) 583-4400 Cessna 172S N172RV S/N: 172S10776 Hobbs Time: 1443.1 S/N: L-34243-51E			
03, September 2015 Lycoming IO-360-L2A 1. Completed Annual Inspection IAW Cessna Aircraft 100hr/Annual Inspection checklist, FAR 43 Appendix D and Lycoming service manual. 2. Ran engine and recorded cylinder compressions: 1) 76/80 2) 76/80 3) 74/80 4) 76/80 3. Drained oil and retained sample for analysis, removed oil filter cut and inspected with no contamination noted. 4. Installed new filter (P/N: C148110-1), safety wired and added Rps Exxon Elite 20W-50 oil. 5. Cleaned, gapped and rotated all spark plugs as required. 6. Drained and inspected gascolator with no contamination noted. 7. Checked magneto to engine timing with proper timing noted. 8. Inspected all oil lines and fittings. 9. Removed and replaced AnSafe seat belt controller with new. (P/N: 508356-421) Removed S/N: 05MAY08-185, Installed S/N: RA14JUL15-3. Next Due: 07/2022. 10. Removed and replaced induction air filter element with new. (P/N: P1982E1) 11. Completed AD search and complied with all outstanding AD's as required. Reference AD list dated 09/15.			
I certify this Engine was inspected in accordance with a 100hr/Annual inspection, and found to be in Airworthy condition. James T. Markey A&P31668721A <i>James T. Markey</i>			
SUB-TOTALS this page			
TOTALS-Carry forward to next page			

Sponsoring Federal Aviation Authority/County		AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				FAA Form 8130-3 Issue Date
FAA/UNITED STATES						08-1987
Description, Name and Address of Propeller Manufacturer		Production Certificate No.				NO. USEE, Contract or Invoice Number
FAA/UNITED STATES McCleary Propeller Systems 10000 S. 10th St. Olympia, WA 98512						1514899
Item No.	Description	Part Number	Material	Quantity	Serial/Batch Number	Status/Work
1	Fixed Pitch Propeller	1A17RE/1A1760	N/A	1	A11D3009	NEW
<p>13. Remarks:</p> <p>The above mentioned fixed pitch propeller was found to meet type design requirements under 25.2008.</p> <p>"AIRWORTHINESS APPROVAL TAG FOR DOMESTIC SHIPMENTS ONLY"</p> <p>14. Certifies the item described above was manufactured in conformance to:</p> <p><input type="checkbox"/> Approved design data and is a condition for safe operation</p> <p><input type="checkbox"/> Other regulation specified in Block 11</p> <p>15. Approved design data used as a condition for safe operation</p> <p><input type="checkbox"/> Other regulation specified in Block 11</p> <p>16. Approved design data used as a condition for safe operation</p> <p><input type="checkbox"/> Other regulation specified in Block 11</p> <p>17. Name (Print/Last, First, Middle Initial)</p> <p><i>[Signature]</i> Date (mm/dd/yyyy) May 26, 2008</p> <p>18. Approval Authorization No. Date (mm/dd/yyyy) May 26, 2008</p> <p>DMR110221LCE</p> <p>19. User/Installer Responsibilities</p> <p>When the manufacturer's instructions are followed, the user/installer is responsible for the safe operation of the aircraft. The user/installer is responsible for the safe operation of the aircraft. The user/installer is responsible for the safe operation of the aircraft.</p> <p>20. Statements in Blocks 14 and 15 do not constitute an approval for export. In all cases, export certification records must contain an installation certification record in accordance with the national regulation of the user/manufacturer before the aircraft may be flown.</p>						

Approving National Aviation Authority/Country: FAA UNITED STATES		AUTHORIZED FAA FORM 8130-3	
1. Organization Name and Address: McCauley Propeller Systems 4088 Camp Drive Columbus, Ga 31907		Federal Aviation regulations. Production Certificate: 3CC	
2. Item:	3. Description:	4. Part Number:	5. k of this record as well as:
1	Fixed Pitch Propeller	1A170EJNA7660	
12. Remarks: The above mentioned fixed pitch propeller was found to meet the requirements of the FAA Part 21.303(b) "AIRWORTHINESS APPROVAL-PROPELLER FOR DOMESTIC SHIPMENT".			

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MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS		
2/28/08	2	1	
07/28/08	2	1	
11/6/08	24	9	
07/08	24	9	
07/08	24	9	
11/08	112	9	

Proplly on 1A170EJNA7660 installed on 2/28/08 at 2100 hrs. 21.303(b) - 21.303(b) - 21.303(b)

Douglas J. Thompson
OOARF100128CE

I CERTIFY THAT THIS PROPELLER WAS EXAMINED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF 21.303(b) AND APPROVED FOR RETURN TO SERVICE.
DATE: 11/6/08 TIME IN SERVICE: 24 HOURS
SERIAL: 112

NO. 100-1000000
BULKY AIRMAIL RETURN
FAA AVIATION SYSTEMS
NO. 100-1000000

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

MAINTENANCE RECORD				
DATE 15	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS	100s		
6/29/09	2	09	I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A _____ PROPRIETARY AND APPROVED FOR RETURN TO SERVICE.	
DATE: 6/29/09			BY: [Signature]	

MAINTENANCE RECORD				
DATE 15	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS	100s		



PROPELLER MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. _____

Propeller Manufacturer McCAULEY

Hub Model _____

Blade Design No. ACD 23005

Hub Serial No. _____

Blade Serial No's.

1. _____

2. _____

3. _____

4. _____

Pitch Range: High _____ Low _____
Feather _____ Reverse _____

Governor Manufacturer _____

Model No. _____

Serial No. _____

Date installed on aircraft _____

Time Between Overhauls (TBO) _____ Hours

- If used on multi-engine aircraft:
- Right Left
 - Front Rear



(All applicable information must be filled in)

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Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME ENCL. OVERHAUL	TACH OR HOURING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
	Reg. N172V Make Cessna	S/N: 172510715 Tach/TAF: 3860	Model 172S Basic 352 J	Date: 12/6/99
<p>I certify that this propeller has been inspected in accordance with a 100 hour annual inspection, Discard Prop Rules and Checked with OTC/SSA/SSA.</p> <p>I in accordance IAW latest revision manufacturer service manual and FAA regulations that the above propeller is in Airworthy condition and approved for return to service for the work performed.</p> <p>Authorized Signature: <i>[Signature]</i> Certification: 3375696 Date: 11/02/00</p>				
	Make: CESSNA Date: 08/11/00 00	Model: C172S S/N: 172510715	Reg. No. N172RV Tach Time: 308.50	Propeller Log Type: McCleuley S/N: 1A170E/JHA7660
<p>This Propeller has been inspected in accordance with an annual/100 hour inspection and was found to be in airworthy condition.</p> <p>Luggi Rondan A&P 3375696 IA. <i>[Signature]</i></p>				
	Make: Cessna Date: 12-02-2010 Propeller Type: McCleuley	Model: 172S S/N: 172510715 Model No: 1A170E/JHA7660	Reg. # N172RV Tach: 483.9 Hobbs: 615.1	
<p>Performed Annual 100 Hour Inspection I.A.W. manufacturer's service instructions and applicable checklist. Discard and painted propeller as required.</p> <p>I certify this Propeller has been inspected in accordance with annual/100 hour inspection and was determined to be airworthy.</p> <p>Authorized signature: <i>[Signature]</i> Certification: IA. 3375696 Date: 11/12/10</p>				
				SUB-TOTALS this page
				TOTALS-Carry forward to next page

DATE	TOTAL TIME SERVICE	TOTAL TIME SINCE OVERHAUL	TACH ON INCREASING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
Page No. _____				
TOTALS brought forward from previous page				
				<p>Make: Cessna Model: 172S Reg# N172RV Date: 07-07-11 S/N: 172S10776 Tach: 583.9 Propeller type: McCauley Model: 1A170E/JHA7660 Hobbs: 0746.6</p> <p>Performed Annual/ 100Hr. inspection I.A.W. Manufacturer's service instructions and applicable checklist. Dressed and painted propeller as required. I certify this propeller has been inspected I.A.W. an Annual/ 100hour inspection and was determined to be airworthy.</p> <p>Authorized signature: <i>Luigi Randon</i> 7-7-11 Certification #: I.A. 3375696</p> <p><i>Fleet Air Services</i> 7X Hanger Road White Lake, New York 12786 2-26-2012</p> <p>N172RV MFG: McCauley Hobbs: 881.70 Model: 1A170E/JHA7660 Tach: 684.10</p> <p>Performed Annual/100 hour inspection this date per manufactures service instructions. I certify that this propeller has been inspected IAW an Annual/100 hour inspection and has been found to be in airworthy condition at this time.</p> <p>John Nichols <i>[Signature]</i> AP1316440501A</p> <p>PROP MODEL DATE 11/08/11 1A170E/JHA7660 ADV. AIRCRAFT PROP BY: [Signature] SERVICE PROP SA: [Signature] ILLINOIS MFG. NO. 172S10776 U.S. PA. 7500 MFG. QUANTITY 300 PHONE: 618-451-4110</p> <p>Prop Entries Annual/100hr. Propeller inspection completed on 7/7/11 as Apperits 13. Changed and dressed blades. All A/c's current through 2012 58. Gas check good. I certify that this PROPELLER has been inspected per an Annual/100 Inspection and was found to be in Airworthy condition.</p> <p>DATE: 7/07/11 SIGNED: <i>[Signature]</i> Work Order: 2054-12-2012 Inspector: [Signature] Printed by: EBA 2 (databricks.com)</p>
SUB-TOTALS this page				
TOTALS-Carry forward to next page				

Page No. _____

DATE	TOTAL TURNS IN SERVICE	TOTAL TURNS SINCE ORIGINAL	TURNS RECHECKING LETTER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page:				
				<p>DATE: 11/15/2013 ADVANCED Advanced Lenses LP 100 Airport Rd. 1000 W. 112th St. Minn. 55120-8178 Phone: 763-218-8178</p> <p>Prop Entries Annual 100hr Propeller inspection completed using FAR 43 Appendix D. Cleared and tested blades. All ADs current through 2013.25. See check point.</p> <p>I certify that the PROPELLER has been inspected in accordance with the Annual Inspection and was found to be in Airworthy condition.</p> <p>DATE: 11/15/2013 SIGNED: <i>[Signature]</i> Work Order: 3118-10-2013 <small>Printed by EASA 3 (easa.com)</small></p>
				<p>DATE: 10/15/2014 ADVANCED Advanced Lenses LP 100 Airport Rd. 1000 W. 112th St. Minn. 55120-8178 Phone: 763-218-8178</p> <p>Prop Entries Annual 100hr Propeller inspection completed using FAR 43 Appendix D. Cleared and tested blades. All ADs current through 2014.19.</p> <p>I certify that the PROPELLER has been inspected in accordance with the Annual 100hr inspection and was found to be in Airworthy condition.</p> <p>DATE: 10/15/2014 SIGNED: <i>[Signature]</i> Work Order: 3150-05-2014 <small>Printed by EASA 3 (easa.com)</small></p>
<p>Private Flight Northeast 75 Hangar RD White Lake NY, 12786 (845) 583-4400 Cessna 172S N172RV S/N: 172S10776 Hubbs Time: 1443.1</p> <p>03, September 2015 McCauley IA170E/JHA7640 S/N: ACB23005</p> <ol style="list-style-type: none"> 1. Completed Annual Inspection IAW Cirrus Design 100hr/Annual Inspection checklist. 2. Lubricated propeller as required. 3. Dressed blades as required. 4. Completed AD search and complied with all outstanding AD's as required. Reference AD list dated 09/15. <p>I certify this Propeller was inspected in accordance with an Annual Inspection and found to be in an airworthy condition.</p> <p><i>James T. Markey</i> A&P 31668721A <i>[Signature]</i></p>				
<p>SUB-TOTALS this page</p> <p>TOTALS-Carry forward to next page</p>				

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

INSTRUCTIONS

This record should be completed and maintained in accordance with FAA Federal Aviation Regulations:
 91.411 Altimeter system and altitude reporting equipment tests and inspections.
 91.413 ATC transponder tests and inspections.

and

43.9, 43.11 and 91.215, and/or other prevailing government regulations.

NOTE: Record required tests in the back of this record.
 Record Service Letters and Airworthiness Directives in the back of this record as well as the
 Airframe Maintenance Record.

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MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS MINs		
		<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="font-size: small;"> Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: A9831 </div> <div style="text-align: center;">  </div> <div style="font-size: small;"> Hobbs: Tach: Total Time: Date: 9/26/2008 </div> </div> <p>Installed Garmin GDL90 UAT DataLink sensor system I/A/W Garmin Installation Manual No. 366-1049-02 & STCF SA02217AK. The GDL90 is integrated into the Garmin G1000 avionics suite. Ops check normal. A/CB weight and balance and equipment list were amended. For further details see WO# A9831 on file this station.</p> <div style="margin-top: 10px;">  <div style="font-size: small; margin-left: 10px;"> For: Air Care, Inc. FAA Repair Station AC98039C </div> </div>	


[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

MAINTENANCE RECORD				
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: A9953  Hobbs: 256.0 Tach: Total Time: Date: 8/24/2009	
			C/W Cessna SB09-34-07, installed Garmin G1000 SVT. Ops checks normal. For further details see WO# A9953 on file this station.  For: Air Care, Inc. FAA Repair Station AC00030C	

MAINTENANCE RECORD				
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Reg #: N6330X Model: Cessna 172S Serial: 172S10776 Work Order #: A9953  Hobbs: 256.0 Tach: Total Time: Date: 8/26/2009	
			Removed GRS77 P/N 011-09868-10, S/N 42098598. Installed warranty exchange GRS77 P/N 011-09868-10, S/N 42019862. Unit overhauled by CRSF G6XR582Y on WO# 967384. Ops checks normal. For further details see WO# A9953 on file this station.  For: Air Care, Inc. FAA Repair Station AC00030C	

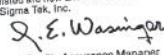
Original Airspeed Indicator

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

 <p>Sigma Tek, Inc. 101 Industrial Road • Augusta, KS 67909-9500 PH: (785) 627-1070 FAX: (785) 775-1418</p>		<p>Sales Order PICK LIST 04/11/08 170739 Order 12/11/07</p>																																																
<p>Bill To: 82385 CESSNA AIRCRAFT CO. (KS) ACCOUNTS PAYABLE/DEPT 824 P.O. BOX 12917 WICHITA, KS 67277-2917</p>		<p>Ship Via UPS/PREPAID F.O.B. FACTORY (AUGUSTA, KANSAS) Ship Term Bill of Lading</p>																																																
<p>Ship To: CORNERSTONE WAREHOUSING, LLC ATTN: CESSNA SUPPLIER CITY 2147 ENTERPRISE DRIVE INDEPENDENCE, KS 67301-8898</p>																																																		
<p>CS NEW MANUFACTURE</p>																																																		
<p>Payment Terms NET 30 DAYS</p>	<p>Sales Rep # 1</p>	<p>Cust PO SH162808_P01</p>																																																
<table border="1"> <thead> <tr> <th>Line</th> <th>Qty.</th> <th>U/M</th> <th>Part Number</th> <th>Description</th> <th>Scheduled Qty.</th> <th>Ship Date</th> <th>Shipped</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>EA</td> <td>EAS175-22PTL-CES</td> <td>AIRPEED INDICATOR, 0-200 KNOTS/0-250MPH</td> <td>04/11/08</td> <td></td> <td><u>10</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td>STOCKROOM: 303</td> <td>LOCATION: NO LOC</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="5">S/N: TS1402B, TS1404B, TS1405B, TS1406B, TS1407B, TS1408B, TS1409B, TS1410B, TS2026B, TS2029B</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="5">CESSNA P/N: S3325-6</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="5">(DATE SOURCED/FUNCTIONALLY TESTED: 04/11/08)</td> </tr> </tbody> </table>			Line	Qty.	U/M	Part Number	Description	Scheduled Qty.	Ship Date	Shipped	1		EA	EAS175-22PTL-CES	AIRPEED INDICATOR, 0-200 KNOTS/0-250MPH	04/11/08		<u>10</u>				STOCKROOM: 303	LOCATION: NO LOC							S/N: TS1402B, TS1404B, TS1405B, TS1406B, TS1407B, TS1408B, TS1409B, TS1410B, TS2026B, TS2029B								CESSNA P/N: S3325-6								(DATE SOURCED/FUNCTIONALLY TESTED: 04/11/08)				
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			(DATE SOURCED/FUNCTIONALLY TESTED: 04/11/08)																																															
<p>CERTIFICATE OF CONFORMANCE I hereby certify that the supplies or services listed herein were shipped as shown above in quantities and the quality called for in the above cited contract and were in all respects in accordance with applicable specifications. Unless otherwise stated herein, the items listed are new and are manufactured by Sigma Tek, Inc.</p> <p><i>S. E. Wasinger</i> Quality Assurance Manager</p>																																																		
<p style="text-align: center;">SHIPPED APR 11 2008</p>																																																		
<p style="text-align: center;">CUSTOMER</p>																																																		

Original Attitude Gyro LTD W/Flag

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

SIGMA TEK PERFORMANCE & AVIONICS Sigma Tek, Inc. 101 Adams Road • Augusta, KS 67810-9690 (316) 775-2373 FAX (316) 775-1445		ORDER NUMBER: 06/03/08 170570 PICK LIST Order: 11/23/07																																																	
Bill To: 82385 CESSNA AIRCRAFT CO. (KS) ACCOUNTS PAYABLE/DEPT 824 P.O. BOX 12917 WICHITA, KS 67277-2917		Ship Via: UPS/PREPAID F.O.B.: FACTORY (AUGUSTA, KANSAS) Ship Terms: Bill of Lading Ship To:																																																	
CS: NEU MANUFACTURE		CORNERSTONE WAREHOUSING, LLC ATTN: CESSNA SUPPLIER CITY 2147 ENTERPRISE DRIVE INDEPENDENCE, KS 67301-8898																																																	
Payment Terms: NET 30 DAYS	Sales Rep # 1	Cust PO: SH162408 P01																																																	
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SHIPPED JUN 03 2008																																																			
CUSTOMER																																																			



**AVIONICS
MAINTENANCE RECORDS**
(including transponder biennial checks)

Log No. 2

Aircraft Registration No. _____

Aircraft Manufacturer CESNA

Model 172s

Serial No. 10776

EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

	Mfg.	Model	Serial No.
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.	<u>Garmin</u>		
18.	<u>Garmin</u>		
19.	<u>Garmin</u>		
20.	<u>Garmin</u>	<u>400-501-100-000</u>	<u>0105475</u>



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FAX: (531) 765-9359

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Page No. _____

DATE	AIRFRAME TYPE OR SERVICE	AVIONICS TYPE OR SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			<p>MANC: Cessna MODEL: 172R SER: 1074 REG: N172RV WORK ORDER NO: _____</p> <p style="text-align: center;">Lincoln Park Aviation 418 Eisenhower Blvd. Lincoln Park, NJ 07035 Phone: 878-223-8482</p> <p style="text-align: right;">DATE: 10/28/16 AC TSN: FACH: 3618</p> <p>Airframe Entries (A) REMOVED AND REPLACED TRANSPONDER WITH NEW. NO LOADED SOFTWARE AND APPLICABLE OPTIONS AS REQUIRED. REMOVED 283514077612. 283514077612 INSTALLED PER 814117076112. 283514077612. (B) REMOVED AND REPLACED ELASATOR CAS WITH NEW. PREP & PAINTED. (C) REMOVED AND REPLACED AVIONICS SWITCH WITH NEW. CIG CHECK OK. (H) Compliant with FAR 91.413 transmitter certification.</p> <p>The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Defect details of the repair are printed on this repair station under work order listed below.</p> <p>DATE: 10/28/2016 SIGNED: <i>[Signature]</i> Inspector 2 Work Order: 8848 Printed by EBK 3 (ebk@ebk.com)</p> <p style="text-align: center;">FAR 91.413 TESTS AND INSPECTIONS</p> <p>Lincoln Park Aviation, CRSM LKPR161K, certifies that the TRANSPONDER tests required by FAR 91.413 were performed in accordance with and comply to Appendix F of Part 43. The aircraft is returned to service.</p> <p>Transponder # <i>811-00771-12</i> SN: <i>87100399</i> Transponder # <i>112</i> SN: <i>11212</i> <i>112120</i> Date: Work Order #</p> <p><i>49-10 HOURS: 911.7</i> <i>CENNA 172 N 172RV</i> <i>REPAIR GUL-90 FCC 12th DAY, AT GUL-90 ATD</i> <i>REPAIR BY REPAIRMAN COLLECT N° 1400 12th</i> <i>GUL-90 ready and take off. REF: with 15361</i></p> <p style="text-align: center;">LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543 DATE: <i>10-10</i> CERTIFICATE NO. LN17281W SIGNED: <i>[Signature]</i></p> <p>MANC: Cessna MODEL: 172R SER: 1074 REG: N172RV WORK ORDER NO: _____</p> <p style="text-align: center;">Lincoln Park Aviation 418 Eisenhower Blvd. Lincoln Park, NJ 07035 Phone: 878-223-8482</p> <p style="text-align: right;">DATE: 10/28/16 AC TSN: FACH: 3618</p> <p>Airframe Entries (A) REMOVED AND REPLACED ELASATOR CAS WITH NEW. OPERATIONAL CHECK SATISFACTORY.</p> <p>The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Defect details of the repair are printed on this repair station under work order listed below.</p> <p>DATE: 10/28/2016 SIGNED: <i>[Signature]</i> Inspector 2 Work Order: 8853 Printed by EBK 3 (ebk@ebk.com)</p>

Page No. _____

DATE	AIRCRAFT TYPE OR SERIAL	AIRCRAFT TYPE OR SERIAL	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			<p>FAR 91.411 & 91.217 TESTS AND INSPECTIONS</p> <p>Lincoln Park Aviation, CR#8 LKPR101K certifies that the ADC and Static tests required by FAR 91.217 & FAR 91.411 were performed in accordance with and comply to Appendix E of Part 43. Aircraft No. <u>172EV</u> ADC is certified to maximum altitude of <u>20000</u> feet. The aircraft is returned to service.</p> <p>ADC Part No. <u>0110082-00</u> SN <u>0110082-00</u></p> <p><i>[Signature]</i> <u>8-7-20</u> <u>10760</u> Date Work Order #</p>

<p>FAR 91.411 TESTS AND INSPECTIONS</p> <p>Lincoln Park Aviation, CR#8 LKPR101K certifies that the Altimeter and Static tests required by FAR 91.411 were performed in accordance with and comply to Appendix E of Part 43. Aircraft No. <u>172EV</u> altimeters are certified for a maximum altitude of <u>20000</u> feet. The aircraft is returned to service.</p> <p>Altimeter #1 Part No. <u>574PD-3</u> SN <u>48284</u></p> <p>Altimeter #2 Part No. <u>172</u> SN <u>172</u></p> <p><i>[Signature]</i> <u>8-7-20</u> <u>10760</u> Date Work Order #</p>	<p>FAR 91.413 TESTS AND INSPECTIONS</p> <p>Lincoln Park Aviation, CR#8 LKPR101K certifies that the TRANSDUCER tests required by FAR 91.413 were performed in accordance with and comply to Appendix F of Part 43. The aircraft is returned to service.</p> <p>Transponder #1 Part No. <u>0110082-10</u> SN <u>0110082-10</u></p> <p>Transponder #2 Part No. <u>172</u> SN <u>172</u></p> <p><i>[Signature]</i> <u>8-7-20</u> <u>10760</u> Date Work Order #</p>
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ADC Altimeter Scale Correction Card				SP40-AY Altimeter Scale Correction Card			
Standard Altitude	Altimeter Reading	Standard Altitude	Altimeter Reading	Standard Altitude	Altimeter Reading	Standard Altitude	Altimeter Reading
0	0	0	0	0	0	0	0
500	500	1000	1000	1000	1000	1000	1000
1000	1000	1500	1500	1500	1500	1500	1500
2000	2000	2000	2000	2000	2000	2000	2000
3000	3000	2500	2500	2500	2500	2500	2500
4000	4000	3000	3000	3000	3000	3000	3000
5000	5000	3500	3500	3500	3500	3500	3500
6000	6000	4000	4000	4000	4000	4000	4000
7000	7000	4500	4500	4500	4500	4500	4500
8000	8000	5000	5000	5000	5000	5000	5000
9000	9000	5500	5500	5500	5500	5500	5500
10000	10000	6000	6000	6000	6000	6000	6000

Date: 8-7-20 Tested By: *[Signature]* Date: 8-7-20 Tested By: *[Signature]*
N: 172EV W.O. # 10760 N: 172EV W.O. # 10760

<p>MADE IN CANADA MODEL 172E SERIAL NO. 172EV WORK ORDER 9111</p> <p>Lincoln Park Aviation 100 Lincoln Park Lincoln Park, IL 60468 Phone: 815-833-2853</p> <p>DATE: 8/6/2018 SIGNED: <i>[Signature]</i> Inspector 2 Work Order: 8111</p> <p>Printed by EB&S 2 (888)6066333.com</p>	<p>DATE: 8/6/2018 SIGNED: <i>[Signature]</i> Inspector 2 Work Order: 8111</p> <p>Printed by EB&S 2 (888)6066333.com</p>
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Page No. _____

DATE	AIRFRAME TIME BY SERVICE	AVIONICS TIME BY SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	MAKÉ Cessna MODEL 172R S/N: 172R REG. NO. 172R Mfg. (GARMIN, make)		<p>Lincoln Park Aviation Repair Station No. L4PR0314 425 Bismarck Road Lincoln Park, NJ 07035 Phone: 875-633-3462</p> <p>DATE: 12/20/10 AC: TSM TACH: 4173</p> <p>Airframe Entries (1) PERFORMED OPERATIONAL INSPECTION ON 51300 SYSTEM AND FOUND TO BE OPERATING TO SPEC.</p> <p>The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service in the manner shown on this report subject to the work order listed below.</p> <p>DATE: 12/20/10 ISSUED: [Signature] Inspector 3 Work Order: 0053 Fayal R. Garcia Certified Repair Station No. L4PR0314 Printed by ERM 3 (datcomedia.com)</p>
	MAKÉ Cessna MODEL 172R S/N: 172R REG. NO. 172R Mfg. (GARMIN, make)		<p>Lincoln Park Aviation Repair Station No. L4PR0314 425 Bismarck Road Lincoln Park, NJ 07035 Phone: 875-633-3462</p> <p>DATE: 09/15/11 AC: TSM TACH: 506.8</p> <p>Airframe Entries (1) PROPELLER PHOTO REMOVED #2 G1A 63W. G1A 63W (P/N 011-01105-00) INSTALLED S/N 68506178. ALL WORK PERFORMED IN ACCORDANCE WITH GARMIN MAINTENANCE SECTION 6.3.1. GARMIN SOFTWARE IS REQUIRED.</p> <p>The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service in the manner shown on this report subject to the work order listed below.</p> <p>DATE: 09/15/11 ISSUED: [Signature] Inspector 2 Work Order: 0050 Fayal R. Garcia Certified Repair Station No. L4PR0314 Printed by ERM 3 (datcomedia.com)</p>
	<p>Solberg Aviation Co. Inc. Solberg Airport P. O. Box 15 Readington, NJ 08870 908-534-4000</p> <p>Cessna 172S S/N 172S10776 N172RV Tach. 617.4 Removed G1A 63W P/N 011-01105-00 S/N 68506160 and installed G1A 63W P/N 011-01105-00 S/N 68506178 and set up per the Garmin Maintenance Manual. Date: 09/15/2011 Sherman R. Keller [Signature] License No. <u>AT 172464881</u></p>		
	<p>Solberg Aviation Co. Inc. Solberg Airport P. O. Box 15 Readington, NJ 08870 908-534-4000 N172RV 08/21/2012 Tach. 740.8 Hobbs 957.1 C/W Cessna SEB 34-02 Garmin G1000 System Software Upgrade to Version 0563.26. Sherman Keller [Signature] License No. <u>AT 172464881</u></p>		

Page No. _____

DATE	AIRCRAFT IN SERVICE	AVIONICS TYPE IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			<p style="text-align: center;">FAR 91.411 & 91.217 TESTS AND INSPECTIONS</p> <p>Lincoln Park Aviation, CRSM LKPR101K certifies that the ADC and Static tests required by FAR 91.217 & FAR 91.411 were performed in accordance with and comply to Appendix E of Part 43. The aircraft N172RV ADC is certified to maximum altitude of 20,000 feet. The aircraft is returned to service.</p> <p>ADC PN <u>06620218</u> SN <u>20602068</u> <u>S. J. ...</u> <u>8-30-12</u> <u>A1054</u> Signature Date Work Order #</p>

FAR 91.411 TESTS AND INSPECTIONS

Lincoln Park Aviation, CRSM LKPR101K certifies that the Altimeter and Static tests required by FAR 91.411 were performed in accordance with and comply to Appendix E of Part 43. Aircraft N172RV altimeters are certified for a maximum altitude of 20,000 feet. The aircraft is returned to service.

Altimeter #1 PN 06620218 SN 20602068
 Altimeter #2 PN 06620218 SN 20602068
S. J. ... 8-30-12 A1054
 Signature Date Work Order #

FAR 91.413 TESTS AND INSPECTIONS

Lincoln Park Aviation, CRSM LKPR101K certifies that the TRANSPONDER tests required by FAR 91.413 were performed in accordance with and comply to Appendix F of Part 43. The aircraft is returned to service.

Transponder #1 PN 06620218 SN 20602068
 Transponder #2 PN _____ SN _____
S. J. ... 8-30-12 A1054
 Signature Date Work Order #

Altimeter Scale Correction Card W. J. ACT

Altimeter SN 20602068 Part Number 06620218

Standard Altitude	Altimeter Reading	Standard Altitude	Altimeter Reading
1000	1010	15000	15000
2000	2010	16000	16000
3000	3010	17000	17000
4000	4010	18000	18000
5000	5010	19000	19000
6000	6010	20000	20000
7000	7010	21000	21000
8000	8010	22000	22000
9000	9010	23000	23000
10000	10010	24000	24000
11000	11010	25000	25000
12000	12010	26000	26000
13000	13010	27000	27000
14000	14010	28000	28000
15000	15010	29000	29000
16000	16010	30000	30000
17000	17010	31000	31000
18000	18010	32000	32000
19000	19010	33000	33000
20000	20010	34000	34000
21000	21010	35000	35000
22000	22010	36000	36000
23000	23010	37000	37000
24000	24010	38000	38000
25000	25010	39000	39000
26000	26010	40000	40000
27000	27010	41000	41000
28000	28010	42000	42000
29000	29010	43000	43000
30000	30010	44000	44000
31000	31010	45000	45000
32000	32010	46000	46000
33000	33010	47000	47000
34000	34010	48000	48000
35000	35010	49000	49000
36000	36010	50000	50000

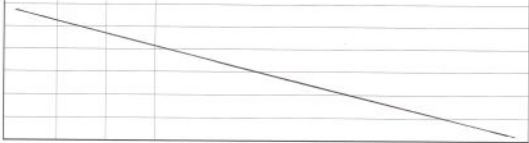
Date: 8-30-12 Tested By: S. J. ...
 N. 172RV W.O. # A1054

Altimeter Scale Correction Card W. J. ACT

Altimeter SN 408201 Part Number 06620218

Standard Altitude	Altimeter Reading	Standard Altitude	Altimeter Reading
1000	1010	15000	15000
2000	2010	16000	16000
3000	3010	17000	17000
4000	4010	18000	18000
5000	5010	19000	19000
6000	6010	20000	20000
7000	7010	21000	21000
8000	8010	22000	22000
9000	9010	23000	23000
10000	10010	24000	24000
11000	11010	25000	25000
12000	12010	26000	26000
13000	13010	27000	27000
14000	14010	28000	28000
15000	15010	29000	29000
16000	16010	30000	30000
17000	17010	31000	31000
18000	18010	32000	32000
19000	19010	33000	33000
20000	20010	34000	34000
21000	21010	35000	35000
22000	22010	36000	36000
23000	23010	37000	37000
24000	24010	38000	38000
25000	25010	39000	39000
26000	26010	40000	40000
27000	27010	41000	41000
28000	28010	42000	42000
29000	29010	43000	43000
30000	30010	44000	44000
31000	31010	45000	45000
32000	32010	46000	46000
33000	33010	47000	47000
34000	34010	48000	48000
35000	35010	49000	49000
36000	36010	50000	50000

Date: 8-30-12 Tested By: S. J. ...
 N. 172RV W.O. # A1054



Page No. _____

DATE	AIRFRAME TYPE SERVICE	AVIONICS TYPE SERVICE	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
9-5-12	Ho 805: 9695	CESSNA 172F	<p>Eng. hrs: 749.8 N 172 RV</p> <p>REPAIR WIP GNL-90 SWIR NEW G-1000 SW. 8563-26 installed by Leaning Gamma system Compatibility software patch. Ramp test OK.</p> <p>LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543 DATE 9-5-12 CERTIFICATE NO. LNT261N SIGNED <i>James E. Kuhn</i></p>

LANCASTER AVIONICS, INC. 508-11 AIRPORT ROAD LITITZ, PA 17543 CRS# LNT261N
LOG #08 3366 08 November 2013 WOP 185171 AC TT 1158.3 HOBBS 1158.3
N172RV SW 172S10778 CESSNA 172S Pg 1/1

**** ITEM # 13017-1, REPAIR GARNIX PFD ****
DEFECTS: 13017-1, REPAIR GARNIX PFD
MODE: 13017-1, REPAIR GARNIX PFD
ACTION: OPS ENGINEER IN ADVISORY AND VERIFIED FAULT. REMOVED FAULTY GND5046 PFD, S/N 51303775.
INSTALLED WARRANTY EXCHANGE GND5046 PFD, S/N 51209514. RELOADED G1000 SYSTEM SOFTWARE AND PERFORMED
CONFID. SETUP. RAMP CHECKS GOOD.

SCOTT KUHN

LANCASTER AVIONICS INC. CRS # LNT261N LANCASTER AVIONICS INC. CRS # LNT261N

CERTIFY THAT THE ALTIMETER ENCODER AND STATIC SYSTEM TESTS REQUIRED BY FAR 61.411 HAVE BEEN PERFORMED IN ACCORDANCE WITH FAR 43 APPENDIX E.

UNIT	TYPE	TESTED TO	UNIT	TYPE	TESTED TO
#1 ALTIMETER	Garmin 14,000-2	14,000-2	#1 TRANSP	ATX 33	ATX 33
#2 ALTIMETER	Garmin 14,000-2	14,000-2	#2 TRANSP	N/A	N/A
ENCODER (S)	Garmin 14,000-2	14,000-2	SIGNATURE	James E. Kuhn	DATE 9-5-12
STATIC SYSTEM TEST DATE	9-5-12	9-5-12	DATE	9-5-12	9-5-12

4/3-14 1233-5

LANCASTER AVIONICS, INC. ICS INC

ALTIMETER AND ENCODER EVALUATION PER FAR 61.411 - FAR 43, APPENDIX E

Altitude	Pressure	Temp	Altitude	Temp	Pressure
1000	1013.25	15.00	1000	15.00	1013.25
2000	1013.25	15.00	2000	15.00	1013.25
3000	1013.25	15.00	3000	15.00	1013.25
4000	1013.25	15.00	4000	15.00	1013.25
5000	1013.25	15.00	5000	15.00	1013.25
6000	1013.25	15.00	6000	15.00	1013.25
7000	1013.25	15.00	7000	15.00	1013.25
8000	1013.25	15.00	8000	15.00	1013.25
9000	1013.25	15.00	9000	15.00	1013.25
10000	1013.25	15.00	10000	15.00	1013.25

ENCODER (S) SPENDER (S)

TYPE TYPE

DATE DATE


Signature: *James E. Kuhn* Signature: _____

DATE: 9-5-12 DATE: _____

Cessna Airframe Record

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

MAINTENANCE RECORD				
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	MIN		

SERVICE BULLETIN COMPLIANCE RECORD								
S.B. NUMBER	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE S.B. (X)		NEXT COMPLIANCE DUE DATE/ HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
		AIRFRAME	COMPONENT	ONE-TIME	RECURRING			
Service Publication Compliance Record Aircraft Model: 172S Serial Number: 172B1878 Registration: N9333X								
Service Information Number	Description	Complied With Date/Time	Method of Compliance or Applicability Status			Once or Recur Status	Next Due Date/Time	
CA89AY 55-0225	55-1340 CREW/PILOT seat reference	14-02	P/F and S/P CREW/PILOT seat installation. Two new seatbelts added. OK.			Once		
55-14-75-01	55-14-75-01 Fuel quantity indicator fuel gauge replacement	14-05	Fuel gauge quantity indicator will be working. Service Bulletin 14-05 is in progress. Installation complete.			Once		
55-14-75-01	55-14-75-01 Fuel quantity indicator fuel gauge replacement	14-05	Fuel gauge quantity indicator will be working. Service Bulletin 14-05 is in progress. Installation complete.			Once		
Compliance verified on date of delivery. Authorized Inspector Signature and Stamp: <i>Douglas L. Thompson</i> 								

50513 Aircraft Publications [Pub Listing](#)

Publications

Propeller Service Document Listing

Aircraft Serial: 172S10776

Publication Number	Issue Date	Compliance	Title of Publication General Information	Reference Document
SB-28-01	03/19/2013	Mandatory	Fuel Line Inspection Fuel Line Inspection	
SB-34-02-R02	03/19/2013	Mandatory	Garmin G1000 System Software Upgrade to Version Garmin G1000 System Software Upgrade to Version 0563.26 for Airplanes Equipped with NAV II (WAAS-Enabled Installations Only)	
SB-32-02	01/14/2013	Recommended	Noise Gear Strut Tube Assembly Noise Gear Strut Tube Assembly	
SB-06-03	11/08/2012	Informational	Chapter 4 Airworthiness Limitations Added to the Chapter 4 Airworthiness Limitations Added to the Maintenance Manual	
SB-74-02	10/04/2012	Mandatory	Transmittal of Lycoming Mandatory Service Bulletin Transmittal of Lycoming Mandatory Service Bulletin No. 603 and Slick Service Bulletin SB1-12	
SB-12-01	05/22/2012	Mandatory	Transmittal of Lycoming Service Instruction No. 1 Transmittal of Lycoming Service Instruction No. 1076R, EASA SB No. 2010-31, and EASA SB No. 2011-0162	
RB-34-01	05/15/2012	Informational	Garmin G1000 Loading Updated Databases Garmin G1000 Loading Updated Databases	
SB-51-01	01/13/2012	Informational	Use Of Corrosion Inhibiting Compounds Use Of Corrosion Inhibiting Compounds	
SM-11-29	11/22/2011	Informational	Cessna Service Document Change Notification Cessna Service Document Change Notification	
SB07-28-01-R01	08/22/2011	Mandatory	Fuel Return Line Inspection Fuel Return Line Inspection	
SB11-27-06	08/31/2011	Recommended	Aileron Control Cable Fairlead Modification Aileron Control Cable Fairlead Modification	MK172-27-02
MK172-27-02	08/31/2011	Not Applicable	Aileron Control Cable Fairlead Modification Aileron Control Cable Fairlead Modification	
SB11-24-02	07/22/2011	Recommended	Avionics Switch Inspection and Replacement Avionics Switch Inspection and Replacement	
SM-11-16	07/15/2011	Informational	Garmin SA1129A GRS77 Loss of Function Garmin SA1129A GRS77 Loss of Function	
SM-11-9	05/24/2011	Not Applicable	Electronic Pilot's Checklist Electronic Pilot's Checklist	
SM-11-3	03/15/2011	Not Applicable	2010 ICRF (International Geomagnetic Reference Field) 2010 ICRF (International Geomagnetic Reference Field) Magnetic Field Model	
SM-11-2	03/15/2011	Not Applicable	Removal of Affected Approaches in Database Cycle Removal of Affected Approaches in Database Cycle 1013 For Airplanes with Garmin G1000 and WAAS	
SB-34-01-R01	02/15/2011	Recommended	Garmin G1000 System Software Upgrade to Version 0563.21 Garmin G1000 System Software Upgrade to Version 0563.21 for Airplanes Equipped with NAV II and WAAS	
SM-11-1	01/18/2011	Not Applicable	Garmin G1000 AOPA Database Display for Airplanes Garmin G1000 AOPA Database Display for Airplanes Equipped with NAV II	

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Publication Number	Issue Date	Compliance	Title of Publication General Information	Reference Document
50513			Aircraft Publications	
SB10-57-01	08/17/2010	Mandatory	Spar Rivet Inspection Spar Rivet Inspection	
CA-172-33-0001A	07/13/2010	Mandatory	Wheels Model 71368 Landing, Taxi and Recognition Wheels Model 71368 Landing, Taxi and Recognition Light System ICA Supplement Revision A	
SB07-80-01-R01	05/18/2010	Optional	Sky-Tec Starter Installation Sky-Tec Starter Installation	MK172-80-01 CA
MK172-80-01A	05/18/2010	Not Applicable	Sky-Tec Starter Installation Sky-Tec Starter Installation	SB07-80-01-R01
SB09-34-09	11/09/2009	Mandatory	GDU 104X CRS/BARO Knob Inspection GDU 104X CRS/BARO Knob Inspection	
SB07-34-01-R02	10/19/2009	Optional	Garmin G1000 NAV II Avionics Chassis Option Garmin G1000 NAV II Avionics Chassis Option	
SB09-55-02	08/01/2009	Mandatory	Horizontal Stabilizer Rear Spar Inspection Horizontal Stabilizer Rear Spar Inspection	
SB09-34-07	06/22/2009	Optional	Garmin G1000 Synthetic Vision Tech (SVT) Inst. Garmin G1000 Synthetic Vision Technology (SVT) Installation	
SB09-34-06	06/22/2009	Mandatory	Garmin G1000 Software Upgrade to Version 0563.14 The Garmin G1000 system(s) are shall be upgraded as described in this Service Bulletin.	
SB09-55-01	06/01/2009	Mandatory	Rudder Rivet Inspection Rudder Rivet Inspection	
SB08-74-01-R01	04/20/2009	Mandatory	Unison Industries SSK-4000-4300/5000/6000 Magnets Unison Industries SSK-4000-4300/5000/6000 Magnets Inspection	
CA-172-34-0001	03/06/2009	Mandatory	G1000 Synthetic Vision Technology Option ICA Supp G1000 Synthetic Vision Technology Option ICA Supplement	
SM-09-2	02/09/2009	Informational	Loss of GRS/WAAS in Northern Latitudes Loss of GRS/WAAS in Northern Latitudes	
SM-09-1	02/09/2009	Informational	Garmin G1000 System LPV and LNAV/VNAV Approaches Garmin G1000 System LPV and LNAV/VNAV Approaches with Three-Character Airport Identifiers	
CA-172-28-0001A	01/30/2009	Mandatory	Single Engine Restart Fuel Quantity Indication System ICA Single Engine Restart Fuel Quantity Indication System ICA Supplement Revision A	
SB08-11-02	08/18/2008	Optional	Electronic Pilot's Checklist Availability SB08-11-02 has been issued to announce the availability of an Electronic Pilot's Checklist for the 2008 Garmin G1500 Nav II equipped airplanes. After installation, the Electronic Pilot's Checklist will be displayed on the Multi-Function Display (MFD) unit.	
CA-172-23-0001B	06/30/2008	Mandatory	GDU-90 Traffic Display System ICA Supplement GDU-90 Traffic Display System ICA Supplement Revision B	
SM-08-9	05/05/2008	Informational	Cessna 2008 Service Directory The new Directory provides the latest information for the Cessna service organization, Cessna Service Stations and McCawley Propeller Service Stations located throughout the world. The Directory includes business hours and service and parts manager contacts for the Service Stations. A copy of the new Cessna 2008 Service Directory is included in each new propeller airplane delivered from the factory.	
SM-08-10	05/05/2008	Informational	Garmin G1000 Transponder Flight ID Operations To transmit the Garmin Service Advisory N. 0506 Rev B: G1000 Transponder Flight Identification Operations that deals with the issues infrequently encountered when entering or changing a G1000 Transponder Flight Identification (ID) number using the PFD entry method	
SM-08-5	04/14/2008	Informational	Engine Fuel Filter, Cluster, and Weather Operation Engine Fuel Filter, Cluster, and Weather Operation	

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92913			Aircraft Publications The purpose of this Service Newletter is to transmit the attached Lycoming Service Instruction No. 1518: Reprint of Precision Service Information Letter No. SLR-94 concerning the engine fuel flow divider operation in cold weather.
SB06-34-03	02/25/2006	Informational	Garmin G1000 Loading Jeppesen NavData on SD Cards Transmit Garmin Service Alert No. 0801: Supplemental Data Cards Should Not Be Used To Load Jeppesen NavData.
SNL07-13	06/04/2007	Informational	Garmin G1000 GDC 74 Field Calibration Tool The purpose of this Service Newletter is to transmit the attached Garmin Service Advisory No. 0720 Revision A: GDC 74(X) Field Calibration Tool and to provide notification that the Garmin G1000 NAV II Line Maintenance Manual, Part Number 190-00352-00, has been updated to Revision J. The GDC 74 Field Calibration Tool software program download is available from Garmin's website in the DEALER RESOURCES location. This tool will adjust the calibration of a GDC 74 unit that has failed the 14 CFR Part 43 Appendix E tests due to altitude drift. The GDC 74 Field Calibration Tool procedure is outlined in the Garmin GDC 74(X) Field Calibration Tool Instructions manual part number 190-00303-02 Revision A (or latest revision). The procedure will not modify or require any Cessna approved NAV II software.
SB07-34-04	07/23/2007	Optional	Garmin G1000 Nav II FileCharts & SafeTaxi Avail To announce the availability of the G10-00330-42 GDU Supplemental Database SD Cards with Garmin FileCharts and SafeTaxi for Model Year 2004, 2005, and 2006 airplanes that have complied with SB07-34-02 (or latest revision); Garmin G1000 System Software Upgrade to Version 563.03.
SB06-34-03B1	07/23/2007	Optional	Installation of Garmin G1000 TAWS-B Revised to provide instructions for airplanes that comply with later system software SB07-34-02 (or latest revision); Garmin G1000 System Software Upgrade to Version 563.03.
SNL07-10	05/14/2007	Informational	Garmin G1000 NAV II SD Cards Reports have been received that some SD Cards may not always function correctly. The affected SD Cards are manufactured by ATP Electronics, Inc. and filled by Jeppesen in the New Data Storage Kits for use with the Aviator Database Update. To assist in eliminating a potential SD Card failure due to improper fit, it is recommended that SD Cards manufactured by ATP Electronics, Inc. be replaced with SD Cards manufactured by Sandisk or Toshiba.
SNL07-9	04/16/2007	Informational	Maintaining Current Service and Operational Info The purpose of this Service Newletter is to inform Cessna Customers of the various options available to assist them in maintaining the currency of publications utilized for maintenance and operation of Cessna Propeller airplanes.
SB07-25-03	03/09/2007	Mandatory	G1000 Annual & Jeppesen Product Software Alert The purpose of this Service Bulletin is to transmit Garmin Aerial Navigation Product Alert, Service Alert No. 070227-00.
SNL07-5	02/26/2007	Optional	NAV II Global Positioning Fault Detection The purpose of this Service Newletter is to inform owners and operators of 2007 NAV II airplanes of the various Global Positioning System (GPS) - Wide Area Augmentation System (WAAS) Fault Detection Exclusion (FDE) Prediction Programs available to assist them in flight planning operations.
SNL07-4	02/05/2007	Informational	New Cessna 2007 Service Directory Announces a new Cessna Service Directory which supersedes the previous 2006 Directory, part number 07530-7-13.
SNL06-18	12/26/2006	Informational	FAA Approved Deicing Updates - Winter 2006/07 This Service Newletter provides notification that Federal Aviation Administration (FAA) Notice Number N 8000 170

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92913			Aircraft Publications The purpose of this Service Newletter is to transmit the attached FAA - Approved Deicing Program Updates, Winter 2006 - 2007 has been issued.
SNL06-17	12/18/2006	Informational	New ELT Records The purpose of this Service Newletter is to provide notification that new ELT placards are available. The new placards have been updated to state the current FAA regulation for servicing the ELT. FAA Regulation 91.52 no longer exists, and has been superseded by 14 CFR Part 91.207.
SB06-34-04	10/02/2006	Optional	ADF and DME Installation To announce the availability of proprietary, serialized modification kits to install a Honeywell/Bendix-King KR87 ADF and INS2 DME in the affected Garmin G1000 NAV II Cessna Airplanes.
SNL06-11	08/14/2006	Informational	Laser TEMA Master Control Unit (MCU) Test Set The purpose of this Service Newletter is to transmit revised instructions for the use of the Laser TEMA MCU Test Set.
SB06-34-03	05/22/2006	Optional	Installation of Garmin G1000 TAWS-B TAWS-B System Software
SNL06-9	04/24/2006	Informational	Approval of Dethylene Glycol Monomethyl Fuel Add The purpose of this Service Newletter is to provide notification that the use of DETHYLENE GLYCOL MONOMETHYL FUEL ADDITIVE is an acceptable substitute for the affected airplanes that have previously been approved for the use of EGME fuel additive.
SNL06-8	04/10/2006	Informational	Propeller Blade Leak Troubleshooting Instructions The purpose of Service Newletter SNL06-8 is to provide assistance in identifying and assessing propeller of leaks and determining the necessary corrective action.
SB07-01	04/10/2006	Optional	Flap Aft Roller Bearing Installation Modification Service experience indicates the potential for wear of the flap supports by the flap aft rollers on airplanes that have the flaps cycled frequently. To assist in preventing the described condition from occurring, a modification of the flap roller assembly installation is being made available as detailed in Service Bulletin SB06-07-01. The existing flap roller assemblies are replaced with shorter rollers and large area stainless steel washers are added at each end of the rollers.
SNL06-6	03/29/2006	Informational	FAA Approved Supplemental Type Certificates In response to customer inquiries, Cessna is providing this SNL06-6 to provide guidance to our customers regarding the incorporation of STCs and/or PMA approved parts that have not been evaluated by Cessna. Some examples of modifications and parts that may affect the airplane aerodynamics, gross weight, flying characteristics, structure, systems or performance are: low airplant and propeller changes, add-on wing tip fuel tanks, vortex generators, camera modifications, winglets, oversize lines, etc.
SNL06-5	03/09/2006	Informational	Maintaining Current Service and Operational Info The purpose of this Service Newletter is to inform Cessna Customers of the various options available to assist them in maintaining the currency of publications utilized for maintenance and operation of Cessna Propeller airplanes.
SNL06-3B	11/21/2005	Informational	FAA Approved Deicing Program Updates To announce FAA Flight Standards Information Bulletin FSAT 05-02: FAA - Approved Deicing Program Updated, Winter 2005 - 2006.
SNL06-5	03/14/2005	Informational	Optional Lower Life Valve Availability The purpose of this Service Newletter is to transmit Lycoming Service Letter No. L242: Improved Lower life

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92913			Aircraft Publications	
			Valve in Fuel Injectors.	
SN05-4	03/14/2005	Informational	FAA - Approved Deicing Program Update To announce FAA Flight Standards Information Bulletin FSAT 04-05 FAA - Approved Deicing Program Updates, Winter 2004 - 2005.	NA
SN05-2	01/31/2005	Informational	Handling of Airplane Gyro Instruments Maintenance Practices - Handling of Airplane Gyro Instruments.	
MK172-52-01	06/28/2004	Not Applicable	Security Lock Installation Security Lock Installation	SR04-52-01
SN04-5	05/31/2004	Informational	FAA Approved Supplemental Type Certificates FAA Approved supplemental type certificates (STCs) and FAA-PMA approved parts	
MK172-61-01	11/14/2001	Not Applicable	Propeller Spinner All Bulkhead Replacement Propeller Spinner All Bulkhead Replacement	
MK172-23-01	01/31/2000	Not Applicable	Static Wick Replacement Static Wick Replacement	SN00-4
MK172-24-03	09/13/1999	Not Applicable	Heavy Duty Battery (24V) Installation Heavy Duty Battery (24V) Installation	
MK172-57-02	01/19/1999	Not Applicable	Heavy Duty Flap Installation Heavy Duty Flap Installation	
SK150-660	03/30/1992	Not Applicable	Circuit Breaker Replacement Circuit Breaker Replacement	SET6-15
SK210-59K	02/25/1987	Not Applicable	Integral Fuel Tank Sealing Kit Integral Fuel Tank Sealing Kit	
SK130-320	04/04/1984	Not Applicable	Oxygen Refill Kit-Less Bottles Oxygen Refill Kit-Less Bottles	NA
~K121-680	05/07/1976	Not Applicable	Hydro Modification (Model S125B and Model S125B M Hydro Modification (Model S125B and Model S125B Modified with Service Kit SK210-38)	
SK150-20A	12/10/1974	Not Applicable	Wheel Balancer Wheel Balancer	
SK180-150	09/06/1972	Not Applicable	SE209 Wing Repair - Jig Complete SE209 Wing Repair - Jig Complete	
SK180-180	08/06/1971	Not Applicable	Fuselage Repair - Jig Complete Fuselage Repair - Jig Complete	
SK182-43	01/28/1969	Not Applicable	Cylinder Head Temperature Gauge Calibration Unit Cylinder Head Temperature Gauge Calibration Unit	
AK205-81E	01/11/1967	Not Applicable	Cessna 300 Series Radio Installation Kit Cessna 300 Series Radio Installation Kit (Includes Nav/Com 300R & Transceiver 300)	
AK172-85B	07/22/1966	Not Applicable	Cessna ADF 300 Installation Kit (14-Volt, Cessna T Cessna ADF 300 Installation Kit (14-Volt, Gama Type)	
SK150-22	03/29/1966	Not Applicable	Diode Installation - Rotating Beacon (12 Volt) Diode Installation - Rotating Beacon (12 Volt)	
AK205-58A	02/14/1966	Not Applicable	Cessna Nav-O-Matic 200 Autopilot - 14 Volt (Basic Cessna Nav-O-Matic 200 Autopilot - 14 Volt (Basic Electronics)	NA
AK172-97E	09/17/1965	Not Applicable	Gyro Installation - (Remanufactured Gyros) Less Gyros Installation - (Remanufactured Gyros) Less Vacuum System	
~205-650	10/02/1964	Not Applicable	Cessna 300 Series Radio Installation Kit Cessna 300 Series Radio Installation Kit (Nav/Com, Transceiver, Nav/Com)	
AK172-95	04/25/1964	Not Applicable	Vacuum System - Super Venturi Driven Vacuum System - Super Venturi Driven	

<https://support.cessna.com/customer-support/faq?id=306&action=show&type=faq> 56

92913			Aircraft Publications	
AK205-108	01/04/1964	Not Applicable	Cessna Nav-O-Matic 200 Autopilot (Basic Electronics) Cessna Nav-O-Matic 200 Autopilot (Basic Electronics)	
AK205-11B	10/07/1963	Not Applicable	Cessna Nav-O-Matic 300 Autopilot (Basic Electronics) Cessna Nav-O-Matic 300 Autopilot (Basic Electronics)	
~1000-1	12/19/1961	Not Applicable	Sun Visor Sun Visor	
SK70A50-2	08/24/1961	Not Applicable	Spar Splice - Left Rear Spar Splice - Left Rear	
SK70A50-1	08/24/1961	Not Applicable	Spar Splice - Right Rear Spar Splice - Right Rear	
AK172-28	06/11/1959	Not Applicable	Heavy Duty Axle Heavy Duty Axle	
AK52-3-553C	04/12/1956	Not Applicable	Cargo Tie-Down Lug Cargo Tie-Down Lug	NA

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Single
Engine

OWNER ADVISORY



SEL-34-01

TITLE

NAVIGATION - GARMIN G1000 LOADING UPDATED DATABASES

TO:

Cessna 172R, 172S, 182T, T182T, 206H, and T206H Owners

REASON

This owner advisory is to inform you that SEL-34-01 has been issued.

The purpose of this service letter is to tell operators about new navigation and Garmin database functionality found in the NAV III G1000 System Software Version 0563.26.

DESCRIPTION

The G1000 System Software Version 0563.26 adds a feature that allows Garmin databases to crossfill across the Primary Flight Display (PFD) and Multi-Function Display (MFD) displays and also adds a feature that allows enablement of dual navigation databases with one set as active and the other as standby.

To crossfill Garmin databases across the PFD and MFD, go to the Cockpit Reference Guide (CRG) (Part Number 199-00384-12) (Revision A or later) Section 1.9 to find the Loading Updated Database section and follow the steps in the Loading Garmin Database Updates section.

To use dual navigation databases, go to the CRG Section 1.8 to find the Loading Updated Database section. To set a navigation database as active, follow the steps in the Loading the Jeppesen Navigation Database as the Active Navigation Database section. To set a navigation database as standby, follow the steps in the Loading the Jeppesen Navigation Database as the Standby Navigation Database section.

COMPLIANCE

INFORMATIONAL. This service letter is for informational purposes only.

LABOR HOURS

Not applicable

WARRANTY

Not applicable

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the "Customer Access" link at www.cessnasupport.com to register.

May 15, 2012

SEL-34-01

Page 1 of 1

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Single
Engine

OWNER ADVISORY



SEB-34-02

TITLE

NAVIGATION - GARMIN G1000 SYSTEM SOFTWARE UPGRADE TO VERSION 0563.26 FOR AIRPLANES EQUIPPED WITH NAV III (WAAS-ENABLED INSTALLATIONS ONLY)

TO:

Cessna 172, 182, and 208 Owners

REASON

This owner advisory is to inform you that SEB-34-02 Revision 1 has been issued.

Version 0563.26 software service bulletin provides an upgrade that includes the following changes:

- **Resolution for Garmin Service Advisory No. 1129 Rev A** – Momentary loss of GRS 77 and GDC 74A functions as addressed in Cessna Service Newsletter S/NL11-15
- **Approach Identifiers** – Added the ability to check for approaches with 3-numeric approach identifiers so that WAAS LPV approaches with 3-numeric identifiers would be available; software fix to Garmin Service Advisory No. 0825.
- **Flight Plan Sorting** – The functionality of sorting the stored flight plans was removed; software fix to Garmin Service Advisory No.: 1118.
- **Graphical METARs** – The display of graphical METARs is added to the active flight plan page and moving maps.
- **METAR Text** – Raw METAR text is displayed on the active flight plan page and moving maps when a METAR flag is highlighted with the map cursor.
- **Weather Legend** – A weather legend is added to the maps that share the weather-related soft keys (NEXRAD, XM, LTNG, and METAR). The display of this legend is controlled via the Legend soft key in the MAP tier of soft keys.
- **METAR Search Radius** – The active flight plan page can now be configured to show a METAR flag (and corresponding report) from a nearby location for any waypoint in the flight plan without an active reporting station. The search radius is set to 30 NM.
- **Selected-Altitude Intercept Arc** – A Selected-Altitude Intercept Arc is displayed on the moving maps that follow Navigation map, PFD inset map, AUX - Trip Planning map, Active Flight Plan page map, and all NRSST maps. A cyan arc is drawn across the active leg (when enabled via the Map Setup) to indicate the location at which the aircraft will reach the selected altitude based on the current barometric altitude, vertical speed, and ground speed.
- **Profile View** – The profile view option is added to the MFD Navigation Map. When enabled, the airplane's vertical position over terrain and obstacles is shown centered on the current ground track. When datalink weather is available, winds aloft information is also shown, which depicts a headwind or tailwind as a function of altitude. This vertical profile view is pilot configurable.
- **Circular SAR Pattern** – A circular search and rescue pattern is now available with the accomplishment of Cessna Service Bulletin SEB-34-01 Garmin G1000 Enhanced Search and Rescue Enablement.
- **Runway Highlights** – SVT no longer renders a runway highlight on the PFD synthetic view when there is obscuring terrain between the current aircraft position and the runway.
- **Dual Navigation Databases** – This feature allows a future navigation database to be stored in a standby location on the SD card in the bottom slot of each GDU. When the standby database becomes effective (as determined by the system date and time) the standby database will be automatically loaded into the active location internal to the GDU. This allows users to proactively update their aircraft with the next navigation cycle as soon as it becomes available, rather than having to wait until the first effective date to switch over.
- **Database Crossfill** – This feature allows most databases to be automatically cross-filled from the bottom SD card in one GDU to the bottom SD card in the other GDU. The following databases are supported: BaseMap, Terrain, Airport Terrain, Obstacle, SafeTaxi, Airport Directory, and Standby Navigation.

Original Issue – March 27, 2012

SEB-34-02

Revision 1 – April 17,

Page 1 of 3

Cessna Aircraft Company, Cessna Customer Service, P.O. Box 7709, Wichita, KS 67277, U.S.A. 1-316-617-0800, Fax 1-316-617-7271, Email: customercare@cessna.lanston.com

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Single
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OWNER ADVISORY



SEB-34-02

- **Startup Screen** – When the dual navigation database feature is active, the Garmin startup screen is now displayed for up to 150 seconds at power up, when necessary, while the internal navigation database is updating. The following message is displayed on the screen: "Please Wait. Navigation Database Update in Progress. Do Not Remove Power from Displays". If the database update has not completed during the allotted time, an error message is then displayed on the MFD and the navigation database is disabled for that power cycle.
- **DB SYNC** – Manual control of the DB SYNC function is removed.
- **Geometric Altitudes** – All GPS-derived geometric altitudes that are referenced to sea level are now displayed using the label "GSL".
- **Voice Call-Out Alerts** – Voice call-out alerts issued within 5 NM of a runway threshold are now based only upon the GPS height above that runway threshold.
- **Improved Lighting Curve** – The lighting curve has been updated for the displays and their bezels to provide more optimal dimming characteristics while under manual control with the dimming potentiometer.
- **Pilot-Selectable MGRS Position Format** – This configuration item enables the ability to display GPS position according to the Military Grid Reference System, and is controlled by a new setting on the AUX System Setup page.
- **Waypoint Arrival Alerts** – This configuration item enables the "arriving at [waypoint]" advisory alert when the aircraft is 10 seconds away from reaching the arrival alert distance to the destination waypoint.

SEB-34-02 Revision 1 provides parts and instructions to upgrade the Garmin G1000 software on WAAS-enabled installations to version 0563.26.

COMPLIANCE

MANDATORY: This service bulletin must be accomplished within the next 200 hours of operation or 12 months, whichever occurs first.

NOTE: For NAV III airplanes equipped with GFC-700 autopilot, Cessna Service Bulletin SB08-34-05 (Garmin G1000 System Software Upgrade to 563.14 for Airplanes Equipped with NAV III and GFC 700 AFCS Autopilot) (or later revision) must be accomplished before compliance with this service bulletin.

NOTE: For NAV III airplanes equipped with KAP-140 autopilot, Cessna Service Bulletin SB07-34-02 (Garmin G1000 System Software Upgrade to 563.03) (or later revision) must be accomplished before compliance with this service bulletin.

NOTE: Existing Garmin software backup CDs shall be destroyed and discarded to eliminate the possibility of loading the incorrect software at a later date.

NOTE: Compliance with SEB-34-02 Revision 1 is not required if in compliance with the Original Issue.

LABOR HOURS

2.0 man-hours to load the software upgrade

If necessary, 0.2 man-hour to do the applicable configuration upload for airplanes equipped with the Garmin G1000 Terrain Awareness System (TAWS-B)

If necessary, 0.2 man-hour to do the applicable configuration upload for airplanes equipped with the Garmin G1000 Chartview System

If necessary, 0.2 man-hour to do the applicable configuration upload for airplanes equipped with Garmin G1000 Synthetic Vision Technology (SVT)

If necessary, 0.2 man-hour to do the applicable configuration upload for airplanes equipped with Garmin G1000 Search and Rescue

If necessary, 0.2 man-hour to do the standby battery ammeter battery calibration procedure

If necessary, 0.2 man-hour to do the dual audio panel configuration procedure

If necessary, 0.2 man-hour to do the applicable configuration upload for airplanes equipped with Garmin G1000 Enhanced Vision System (EVS)

SEB-34-02
Page 2

Revision 1 – April 17,



WARRANTY

For airplanes identified within the serial effectivity and complying within 200 hours or twelve months from the original date of this service bulletin:

Applicable Cockpit Reference Guide (CRG) and software CD parts credit and a labor allowance credit of 2.0 man-hours per airplane will be provided to load the software upgrade.

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the applicable configuration upload for airplanes equipped with the Garmin G1000 Terrain Awareness System (TAWS-B).

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the applicable configuration upload for airplanes equipped with the Garmin G1000 ChartView System.

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the applicable configuration upload for airplanes equipped with Garmin G1000 Synthetic Vision Technology (SVT).

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the applicable configuration upload for airplanes equipped with Garmin G1000 Search and Rescue.

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the standby battery ammeter battery calibration procedure.

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the dual audio panel configuration procedure.

If necessary, a labor allowance credit of 0.2 man-hour will be provided to do the applicable configuration upload for airplanes equipped with Garmin G1000 Enhanced Vision System (EVS).

Freight will be credited at the most economical method unless pre-approved by Cessna. For pre-approval contact Cessna Service Parts and Programs Warranty Administration at Telephone: 316-517-4296, Fax: 316-206-2746 or E-mail: opcdelme@cessna.textron.com.

To receive credit, the work must be completed within stated compliance timeframe and a Warranty Claim submitted by a Cessna Single Engine Authorized Service Facility within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below.

Domestic April 27, 2013
International April 27, 2013

Special Note to Authorized Service Facilities:

When you complete the Warranty Claim, the labor allowance claimed shall be limited for each above action completed.

Please contact a Cessna Authorized Service Facility for detailed information and arrange to have Cessna service bulletin SEB-34-02 Revision 1 accomplished on your airplane.

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the "Customer Access" link at www.cessnasupport.com to register.

SAIB CE-12-15 Special Airworthiness

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



FAA
Aviation Safety

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

SUBJ: DC Power Distribution System - Avionics Master Switch **SAIB:** CE-12-15
Date: January 30, 2012
This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin (SAIB) informs registered owners and operators of an airworthiness concern associated with the avionics master switch on **Cessna Aircraft Company (Cessna) Model 172R, 172S, 182T, T182T, 206H and T206H airplanes**. There is a potential for an accelerated rate of failure of the switch, which may result in the loss of avionics equipment on Garmin G1000-equipped airplanes.

Although failure of the switch can result in loss of equipment, these airplanes are designed such that avionics equipment necessary for the pilot to continue safe flight and landing are still maintained through the aircraft's electrical system.

At this time, this airworthiness concern is not considered an unsafe condition that would warrant an airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR part 39).

Background

We have received reports indicating a trend of failures associated with components of the Garmin G1000 avionics suite in the Cessna single-engine models identified above.

After investigating further and coordinating with Cessna, we determined that electrical contact erosion was occurring internal to the switch. This erosion is due to power-up surge currents caused by avionics equipment connected to one side of the switch (Avionics Bus 2). We reviewed the electrical distribution system for the affected models and found that in the event of a complete failure of the avionics master switch, essential equipment necessary to continue safe flight and landing will be maintained through alternate power sources.

Cessna has issued Service Bulletin SB 11-24-02 to address this issue.

Recommendations

We recommend the following for all owners and operators of Cessna Models 172R, 172S, 182T, T182T, 206H, and T206H aircraft equipped with a Garmin G1000 system:

- 1) Replacement of the avionics master switch (part number S3443-1-1) every 500 hours of operation following Cessna Service Bulletin SB11-24-02, dated July 21, 2011.
- 2) If you experience issues during power up of the avionics where a display or other equipment does not initially power and it requires cycling of the avionics master switch, take further action to isolate and identify the problem including inspection of the switch for possible impending failure.

1

- 3) If you experience any system failure in-flight or before flight, follow the appropriate published abnormal or emergency procedures, and have the failed system repaired before the next flight. Take further action to isolate and identify the problem including inspection of the avionics master switch for possible impending failure.

For Further Information Contact

Richard Rejniak, Aerospace Engineer, FAA, Wichita Aircraft Certification Office, 1801 Airport Rd, Room 100, Wichita, Kansas, 67209; phone: (316) 946-4128; fax: (316) 946-4107; e-mail: richard.rejniak@faa.gov.

For Related Service Information Contact

Cessna Aircraft Company, P.O. Box 7704 Wichita, KS 67277 and Attn: Customer Care; phone: 316-517-5800 or 800-423-7762, fax: 316-517-7271, web: customercare@cessna.textron.com, e-mail:

2



Service Bulletin

July 22, 2011

SB11-24-02

TITLE

AVIONICS SWITCH INSPECTION AND REPLACEMENT

EFFECTIVITY

The following airplanes equipped with the Garmin G1000 Avionics system:

Model	Serial Numbers
172R	17281241 and On
172S	17250910 and On
182T	18281228 and On
T182T	T18209232 and On
206H	20608215 and On
T206H	T20608450 and On

REASON

On airplanes equipped with the Garmin G1000 Avionics system, the AVIONICS switch may not operate correctly when it is used beyond its serviceable life limit. Cessna has decided to limit the life of this switch to 500 hours of operation.

DESCRIPTION

An inspection of the airplane paperwork is accomplished to determine the length of time the installed AVIONICS switch has been in service. Switches that have been in service for 500 hours of operation or more shall be replaced.

Page 1 of 6

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Customer Service, P.O. Box 7798, Wichita, Kansas 67271, U.S.A. (316) 917-8889, Fax/Telex (316) 517-7271
www.cessnasupport.com

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COMPLIANCE

Recommended:

- A one time inspection of the maintenance records of the airplane to determine the time in service of the AVIONICS switch shall be accomplished at the next 100-hour / 12-month (annual-type) inspection.
- The part number S3443-1-1 AVIONICS switch shall be replaced every 500 hours of operation.
- Subsequent actions: This Service Bulletin and 500-hour component life limit shall remain in effect until superseded by revision of the Component Time Limits Section of the airplane Maintenance Manual (latest revision).

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MANPOWER

If necessary, 1,2 man-hours to replace the AVIONICS switch.

REFERENCES

Model 172 Series 1996 and On Maintenance Manual

Model 182/T182 Series 1997 and On Maintenance Manual

Model 206/T206 Series 1998 and On Maintenance Manual

Model 172R/172S Wiring Diagram Manual

Model 182S/182T/T182T Wiring Diagram Manual

Model 206H/T206H Wiring Diagram Manual

NOTE: Make sure all publications used are complete and current. Refer to www.cessnasupport.com.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness and must be accomplished for ongoing airworthiness compliance as necessary in accordance with 14 CFR Part 43.13.

OTHER PUBLICATIONS AFFECTED

Model 172R & Model 172S Illustrated Parts Catalog

Model 182S/182T/T182T Illustrated Parts Catalog

Model 206H & Model T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current. Refer to cessnasupport.com.

MATERIAL AVAILABILITY

The following parts are available from Cessna Service Parts and Programs through an appropriate Cessna Authorized Service Facility.

Part Number	Description	Qty/Airplane
S3443-1-1	Switch, Split Dual Rocker	1

Page 2

SB11-24-02
July 22, 2011

ACCOMPLISHMENT INSTRUCTIONS

WEIGHT AND BALANCE INFORMATION

Negligible

Material Information

The part below may be necessary:

NEW PIN	QUANTITY	DESCRIPTION	OLD PIN	DISPOSITION
S3443-1-1	1	Switch, Split Dual Rocker	Same	Discard

Instructions

1. Look in the airplane paperwork to see if the AVIONICS switch was installed within the last 500 hours of operation of the airplane.
 - A. If the switch was installed within the last 500 hours of operation of the airplane, go to Step 2.
 - B. If the total time in service for the switch is 500 hours of operation or more, do as follows:
 - (1) Prepare the airplane for maintenance.
 - (a) Make sure that all switches are in the OFF/NORM position.
 - (b) Disconnect electrical power from the airplane.
 - 1 Electrically ground the airplane.
 - 2 Disconnect external electrical power.
 - 3 Disconnect the airplane battery.
 - (2) Attach maintenance warning tags to the battery and external power receptacle that have "DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS" written on them.
 - (3) Remove the AVIONICS switch from the airplane as follows: (Refer to the applicable Airplane Model Maintenance Manual, Chapter 31, Instrument and Control Panels - Maintenance Practices.)
 - (a) Make sure that the MASTER and AVIONICS switches are in the off position.
 - (b) Remove and keep the screws that attach the switch panel to the instrument panel.
 - (c) Carefully pull out the switch panel as necessary to get access behind the switch panel.
 - (d) As applicable, record the location of the wires attached to the AVIONICS switch.
 - (e) Remove all four switch terminal screws to disconnect the AVIONICS switch from the switch wires.
 - (f) Remove the mounting bezel from the switch.
 - (g) Remove the AVIONICS switch from the switch panel.
 - (4) Discard the AVIONICS switch.
 - (5) Install a new S3443-1-1 AVIONICS switch as follows:
 - (a) Attach the AVIONICS switch to the kept switch mounting bezel.
 - (b) Use the recorded wire locations to correctly connect all four wires to the switch with the terminal screws supplied with the new S3443-1-1 AVIONICS switch.
 - (c) Torque the switch terminal screws to 10 inch-pounds, +2 or -2 inch-pounds.
 - (d) Carefully install the S3443-1-1 AVIONICS switch and the switch mounting bezel into the switch panel.
2. Make an entry in the airplane logbook that states compliance and method of compliance with this Service Bulletin.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or instructions for Continued Airworthiness and must be accomplished for ongoing Airworthiness Compliance as necessary in accordance with 14 CFR Part 43.13.

SB11-24-02
July 22, 2011

Page 3

- (e) Put the switch panel in position on the instrument panel.
- (f) Install the kept screws that attach the switch panel to the instrument panel.
- (g) Remove maintenance warning tags from battery and external power receptacle and connect the battery.
- (h) Do an operational test of the AVIONICS switch.

Page 4

SB11-24-02
July 22, 2011

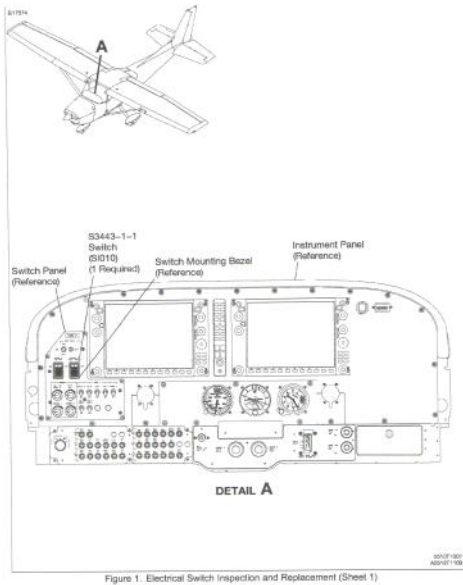


Figure 1. Electrical Switch Inspection and Replacement (Sheet 1)

SB11-24-02
July 22, 2011

Page 5

OWNER NOTIFICATION

On August 12, 2011 the following message will be sent to applicable owners of record in SB11-24-02A.

Dear Cessna Single-Engine Piston Owner:

This Owner Advisory is to inform you that SB11-24-02 has been issued.

On airplanes equipped with the Garmin G1000 Avionics system, the AVIONICS switch may not operate correctly when it is used beyond its serviceable life limit. Cessna has decided to limit the life of this switch to 500 hours of operation.

An inspection of the airplane paperwork is accomplished to determine the length of time the installed AVIONICS switch has been in service. Switches that have been in service for 500 hours of operation or more shall be replaced.

Recommended:

- A one time inspection of the maintenance records of the airplane to determine the time in service of the AVIONICS switch shall be accomplished at the next 100-hour / 12-month (annual-type) inspection.
- The part number S3443-1-1 AVIONICS switch shall be replaced every 500 hours of operation.
- Subsequent actions: This Service Bulletin and 500-hour component life limit shall remain in effect until superseded by revision of the Component Time Limits Section of the airplane Maintenance Manual (latest revision).

The information contained in the referenced Cessna Service Bulletin must be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or instructions for Continued Airworthiness, and must be accomplished for ongoing Airworthiness Compliance as required per 14 CFR Part 43.13.

Please contact a Cessna Single Engine Authorized Service Facility for detailed information and arrange to have Cessna Service Bulletin SB11-24-02 accomplished on your airplane.

Page 6

SB11-24-02
July 22, 2011

Single Engine



Service Bulletin

December 23, 2011

SB11-28-03

TITLE

FUEL RETURN LINE INSPECTION

EFFECTIVITY

Model	Serial Numbers
172R	17281573 thru 17281584, 17281588 thru 17281594, 17281596 thru 17281598
172S	172S11074 thru 172S11104, 172S11106, 172S11107, 172S11109 thru 172S11113, 172S11115 thru 172S11125, 172S11129 thru 172S11135, 172S11139 thru 172S11144

REASON

A report has been received that a part number 0516031-1 Fuel Return Line Assembly was found rubbing against the right steering tube assembly during rudder pedal actuation.

DESCRIPTION

This service bulletin provides instructions to inspect the fuel return line for damage, and if necessary, repair or replace the line assembly. Non-compliance with this service bulletin could potentially result in a fuel leak.

COMPLIANCE

Mandatory. Shall be accomplished at the next scheduled maintenance or inspection not to exceed 100 hours of operation or 12 months, whichever occurs first.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MANPOWER

0.8 man-hour for inspection

If necessary, add 0.3 man-hour to replace the fuel return line assembly

If necessary, add 0.4 man-hour to repair the fuel return line assembly

Page 1 of 7

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Customer Service, P.O. Box 7708, Wichita, Kansas 67277, U.S.A. (316) 517-1800, Facsimile (316) 517-7271
www.cessnasupport.com

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REFERENCES

Model 172 Series 1996 and On Maintenance Manual

NOTE: Make sure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.

OTHER PUBLICATIONS AFFECTED

Model 172R & Model 172S Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The part below is available from Cessna Service Parts and Programs through an appropriate Cessna Single Engine Authorized Service Facility.

Part Number	Description	Qty/Airplane
0516031-1	Fuel Line Assembly	1 (if required)

CREDIT INFORMATION

For airplanes in warranty and identified within the Serial Effectivity:

A labor allowance credit of 0.8 man-hour per airplane will be provided to inspect the fuel return line assembly as described in this service bulletin.

If necessary, an additional 0.3 man-hour per airplane will be provided to replace the fuel return line assembly as described in this service bulletin.

If necessary, an additional 0.4 man-hour per airplane will be provided to repair the fuel return line assembly as described in this service bulletin.

Freight will be credited at the most economical method unless pre-approved by Cessna. For pre-approval contact Cessna Service Parts and Programs Warranty Administration at Telephone: 316-831-4296, Fax: 316-296-2748 or E-mail: cpd@cessna.com or cpd@cessna.com.

To receive credit, the work must be completed and the Warranty Claim submitted by a Cessna Single Engine Authorized Service Facility within 30 calendar days of service bulletin compliance before the credit expiration dates shown below.

NOTE: Part number 0516031-1 fuel lines removed based on the inspection results of this service bulletin shall be held for field scrap per standard procedures.

Domestic	January 13, 2013
International	January 13, 2013

Special Note to Single-Engine Authorized Service Facilities:

When you complete the Warranty Claim, the labor allowance claimed shall be itemized for each above action completed.

ACCOMPLISHMENT INSTRUCTIONS

WEIGHT AND BALANCE INFORMATION

None

Material Information

The part below may be necessary:

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
0516031-1	1	Fuel Line Assembly	Same	Refer to Credit Information Section.

Instructions

1. Prepare the airplane for maintenance.
 - A. Make sure that all switches are in the OFF/NORM position.
 - B. Disconnect electrical power from the airplane.
 - (1) Disconnect the airplane battery.
 - (2) Disconnect external electrical power.
 - C. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
- WARNING: IF THE AIRPLANE HAS AMSAFE INFLATABLE RESTRAINTS, DO NOT REMOVE SEATS WITH THE SEAT BELTS BUCKLED OR THE ELECTRONICS MODULE ASSEMBLY (EMA) CONNECTED. DAMAGE TO THE SYSTEM CAN OCCUR AND AN ACCIDENTAL DEPLOYMENT OF THE SYSTEM CAN CAUSE INJURY.**
2. Remove the access panel (230B1) and the rudder pedal close-out panel below the copilot's rudder pedals. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 6, Access/Inspection Plates - Description and Operation.)
3. Make sure that the AN833-4 Elbow is installed in the 6 O'clock position as shown in View A-A of Figure 1.
 - A. If the AN833-4 Elbow outlet is in the 6 O'clock position, go to Step 4.
 - B. If the AN833-4 Elbow outlet is not in the 6 O'clock position, do as follows:
 - (1) Remove the upper engine cowl. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
 - (2) Put a backup wrench on the AN833-4 Elbow.
 - (3) Loosen the AN824-4 Nut.
 - (4) Put the AN833-4 Elbow outlet in the 6 O'clock position.
 - (5) Tighten the AN824-4 Nut and torque it to 225 inch-pounds, +25 or -25 inch-pounds.
4. (Refer to Figure 1, View A-A.) Do an inspection of the 0516031-1 Fuel Return Line Assembly as follows:
 - A. With a flashlight and a mirror, do an inspection of the 0516031-1 Fuel Return Line Assembly for damage and for sufficient line clearance in the area of the MC0543022-2C Steering Tube Assembly.
 - (1) If there is no damage to the 0516031-1 Fuel Return Line Assembly and the 0516031-1 Fuel Return Line Assembly does not touch the MC0543022-2C Steering Tube Assembly when the rudder pedals and nose wheel travel through the full left and right positions, go to Step 8.
 - (2) If there is no damage to the 0516031-1 Fuel Return Line Assembly, but it does touch the MC0543022-2C Steering Tube Assembly when the rudder pedals and nose wheel travel

SB11-28-03
December 23, 2011

Page 3

through the full left and right positions, hand form the line until you have clearance between the 0516031-1 Fuel Return Line Assembly and the MC0543022-2C Steering Tube Assembly when the rudder pedals and nose wheel travel through the full left and right positions. Then go to Step 6.

- (3) If there is damage to the 0516031-1 Fuel Return Line Assembly, do as follows:
 - (a) Pull the fuel shutoff valve handle aft to shut off the fuel supply from the engine.
 - (b) Remove the 0516031-1 Fuel Return Line Assembly and install protective caps on the S2218-4 Check Valve, AN833-4 Elbow at the firewall, and each end of the 0516031-1 Fuel Return Line Assembly.
 - (c) Make sure that there is only residual fuel leakage from the S2218-4 Check Valve after you disconnect the 0516031-1 Fuel Return Line Assembly. If there is more than residual fuel leakage, you must replace the S2218-4 Check Valve. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 28, Fuel Storage and Distribution - Maintenance Practices.)
 - (d) Do an inspection of the damage on the 0516031-1 Fuel Return Line Assembly.
 1. If there is damage in the area of a bend radius of the line, you must remove and discard the 0516031-1 Fuel Return Line Assembly. Then go to Step 5.
 2. If there is damage on the line of a depth of more than 0.0035 inch, or you cannot measure the depth of the damage, you must remove and discard the 0516031-1 Fuel Return Line Assembly. Then go to Step 5.
 3. If there is damage on the line of a depth of 0.0035 inch or less and it is not in the area of a bend radius of the line, repair the damage to the 0516031-1 Fuel Return Line Assembly with bonding procedures in accordance with FAA Advisory Circular 43-13-1B Acceptable Methods, Techniques, and Practices Aircraft Inspection and Repair. Then go to Step 5.
5. Install the 0516031-1 Fuel Return Line Assembly as follows:
 - A. Remove the protective caps from the 0516031-1 Fuel Return Line Assembly, S2218-4 Check Valve, and AN833-4 Elbow at the firewall.
 - B. Hand tighten the B-nuts at the two ends of the 0516031-1 Fuel Return Line Assembly.
 - C. Put the 0516031-1 Fuel Return Line Assembly in the position that gives correct clearance between the airplane structure and the MC0543022-2C Steering Tube Assembly when the rudder pedals and nosewheel move through the full left and right positions.
 - D. Hold the 0516031-1 Fuel Return Line Assembly in the correct position while you torque the B-nuts to 120 inch-pounds, +20 or -20 inch-pounds.
 - E. Turn the nosewheel with a tow bar and move the copilot's rudder pedals at the same time while you look at the MC0543022-2C Steering Tube Assembly as it moves through its full range of motion. Make sure that the MC0543022-2C Steering Tube Assembly does not touch the 0516031-1 Fuel Return Line Assembly or the airplane structure.
 - (1) If the 0516031-1 Fuel Return Line Assembly touches the right MC0543022-2C Steering Tube Assembly or the airplane structure, you must hand form the line until you have clearance between the 0516031-1 Fuel Return Line Assembly and the MC0543022-2C Steering Tube Assembly when the rudder pedals and nose wheel travel through the full left and right positions. Then go to Step 6.
 - (2) If the 0516031-1 Fuel Return Line Assembly does not touch the right MC0543022-2C Steering Tube Assembly or the airplane structure, go to Step 6.
 6. Push the fuel shutoff valve handle forward to the ON position.
 7. Do a check for leaks at the 0516031-1 Fuel Return Line Assembly.
 8. Install the access plate (230B1) and the rudder pedal close-out panel. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 6, Access/Inspection Plates - Description and Operation.)

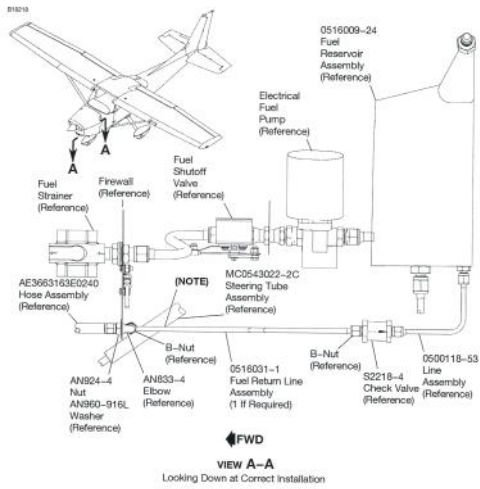
Page 4

SB11-28-03
December 23, 2011

9. If removed, install the upper engine cowl. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
10. Remove maintenance warning tags from battery and external power receptacle and connect the battery.
11. Make an entry in the airplane logbook that states compliance and method of compliance with this service bulletin.

SB11-28-03
December 23, 2011

Page 5



NOTE: Turn the nosewheel with a tow bar and move the cockpit's rudder pedals at the same time while you look at the MC0543022-2C Steering Tube Assembly as it moves through its full range of motion to make sure it does not touch the 0516001-1 Fuel Return Line Assembly or the airplane structure.

Figure 1. Fuel Return Line Inspection (Sheet 1)

05171807
AAR187050

Page 6

SB11-28-03
December 23, 2011

OWNER NOTIFICATION

On December 23, 2011, the following message will be sent to applicable owners of record:

Dear Cessna Skyhawk Owner:

This owner advisory is to inform you that Service Bulletin SB11-28-03, Fuel Return Line Inspection, has been issued.

A report has been received that a part number 0516031-1 Fuel Return Line Assembly was found rubbing against the right steering tube assembly during full rudder pedal actuation.

This service bulletin provides instructions to inspect the fuel return line for damage, and if necessary, repair or replace the line assembly. Non-compliance with this service bulletin could potentially result in a fuel leak.

Compliance is Mandatory. Shall be accomplished at the next scheduled maintenance or inspection not to exceed 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.

For airplanes in warranty and identified within the Serial Effectivity:

A labor allowance credit of 0.8 man-hour per airplane will be provided to inspect the fuel return line assembly as described in this service bulletin.

If necessary, an additional 0.3 man-hour per airplane will be provided to replace the fuel return line assembly as described in this service bulletin.

If necessary, an additional 0.4 man-hour per airplane will be provided to repair the fuel return line assembly as described in this service bulletin.

Freight will be credited at the most economical method unless pre-approved by Cessna. For pre-approval contact Cessna Service Parts and Programs Warranty Administration at Telephone: 316-631-4290, Fax: 316-206-2746 or E-mail: cpd2claims@cessna.textron.com.

To receive credit, the work must be completed and the Warranty Claim submitted by a Cessna Single Engine Authorized Service Facility within 30 calendar days of service bulletin compliance before the credit expiration dates shown below.

NOTE: Part number 0516031-1 fuel lines removed based on the inspection results of this service bulletin shall be held for field scrap per standard procedures.

Domestic January 13, 2013
International January 13, 2013

Please contact a Cessna Single Engine Authorized Service Facility for detailed information and arrange to have Cessna Service Bulletin SB11-28-03 accomplished on your airplane.

As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the www.cessnasupport.com Customer Access link to register.



Service Newsletter

September 1, 2011

SNL11-21

TITLE

LYCOMING SB596/AVSTAR AFS-SB6R2 TRANSMITTAL

TO

Cessna Distributors, Single Engine Authorized Service Facilities, and affected Owners of Record

MODELS AFFECTED

All Cessna 172R, 172S, 182S, 182T, T182T, 206H, T206H, 177RG, and F177RG model airplanes

DISCUSSION

The purpose of this service newsletter is to transmit Lycoming Mandatory Service Bulletin No. 596, Reprint of AVStar Mandatory Service Bulletin AFS-SB6 Revision 2.

Lycoming Service Bulletin No. 596 identifies certain Lycoming engines and components that could have a faulty fuel diaphragm in fuel servos made or overhauled by AVStar, or fuel diaphragms installed as spares by others.

NOTE: Cessna has not delivered airplanes with suspect parts, and Cessna Service Parts and Programs has not sold suspect spare parts called out in Lycoming Mandatory Service Bulletin No. 596 for installation in Cessna airplanes. Table 1 in Lycoming Mandatory Service Bulletin No. 596 does not show all engine models that could have had suspect parts installed in the field. Suspect spare parts could have been installed in the field in any of the Cessna model airplanes listed in MODELS AFFECTED of this service newsletter.

OWNER NOTIFICATION

On September 1, 2011, a copy of this service newsletter will be sent to applicable Owners of Record.

As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the www.cessnasupport.com Customer Access link to register.

* * * * *

Page 1 of 1

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and providing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Customer Service, P.O. Box 7796, Wichita, Kansas 67277, U.S.A. (316) 917-5600, Fax:(316) 917-5271
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**SPECIAL AIRWORTHINESS
INFORMATION BULLETIN**

SUBJ: DC Power Distribution System - Avionics Master Switch SAIIB: CE-12-15
Date: January 30, 2012
This is information only. Recommendations are not mandatory.

*SEE ATTACHED
CESSNA SB 11-24-02*

Introduction

This Special Airworthiness Information Bulletin (SAIB) informs registered owners and operators of an airworthiness concern associated with the avionics master switch on Cessna Aircraft Company (Cessna) Model 172R, 172S, 182T, T182T, 206H and T206H airplanes. There is a potential for an accelerated rate of failure of the switch, which may result in the loss of avionics equipment on Garmin G1000-equipped airplanes.

Although failure of the switch can result in loss of equipment, these airplanes are designed such that avionics equipment necessary for the pilot to continue safe flight and landing are still maintained through the aircraft's electrical system.

At this time, this airworthiness concern is not considered an unsafe condition that would warrant an airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR part 39).

Background

We have received reports indicating a trend of failures associated with components of the Garmin G1000 avionics suite in the Cessna single-engine models identified above.

After investigating further and coordinating with Cessna, we determined that electrical contact erosion was occurring internal to the switch. This erosion is due to power-up surge currents caused by avionics equipment connected to one side of the switch (Avionics Bus 2). We reviewed the electrical distribution system for the affected models and found that in the event of a complete failure of the avionics master switch, essential equipment necessary to continue safe flight and landing will be maintained through alternate power sources.

Cessna has issued Service Bulletin SB 11-24-02 to address this issue.

Recommendations

We recommend the following for all owners and operators of Cessna Models 172R, 172S, 182T, T182T, 206H, and T206H aircraft equipped with a Garmin G1000 system:

- 1) Replacement of the avionics master switch (part number S3443-1-1) every 500 hours of operation following Cessna Service Bulletin SB11-24-02, dated July 21, 2011.
- 2) If you experience issues during power up of the avionics where a display or other equipment does not initially power and it requires cycling of the avionics master switch, take further action to isolate and identify the problem including inspection of the switch for possible impending failure.

1

- 3) If you experience any system failure in-flight or before flight, follow the appropriate published abnormal or emergency procedures, and have the failed system repaired before the next flight. Take further action to isolate and identify the problem including inspection of the avionics master switch for possible impending failure.

For Further Information Contact

Richard Rejniak, Aerospace Engineer, FAA, Wichita Aircraft Certification Office, 1801 Airport Rd, Room 109, Wichita, Kansas, 67209; phone: (316) 946-4128; fax: (316) 946-4107; e-mail: richard.rejniak@faa.gov.

For Related Service Information Contact

Cessna Aircraft Company, P.O. Box 7704 Wichita, KS 67277 and Attn: Customer Care; phone: 316-517-5800 or 800-423-7762, fax: 316-517-7271, web: www.cessnasupport.com, e-mail: customer-care@cessna.textron.com.

2

Single Engine



Service Bulletin

July 22, 2011

SB11-24-02

TITLE

AVIONICS SWITCH INSPECTION AND REPLACEMENT

EFFECTIVITY

The following airplanes equipped with the Garmin G1000 Avionics system:

Model	Serial Numbers
172R	17261241 and On
172S	17259810 and On
182T	18261228 and On
T182T	T18208232 and On
206H	20606215 and On
T206H	T20608450 and On

REASON

On airplanes equipped with the Garmin G1000 Avionics system, the AVIONICS switch may not operate correctly when it is used beyond its serviceable life limit. Cessna has decided to limit the life of this switch to 500 hours of operation.

DESCRIPTION

An inspection of the airplane paperwork is accomplished to determine the length of time the installed AVIONICS switch has been in service. Switches that have been in service for 500 hours of operation or more shall be replaced.

Page 1 of 6

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing governmental regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Customer Service, P.O. Box 7706, Wichita, Kansas 67277, U.S.A. (316) 317-5800; Facsimile (316) 637-7271
www.cessnasupport.com

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COMPLIANCE

Recommended:

- A one time inspection of the maintenance records of the airplane to determine the time in service of the AVIONICS switch shall be accomplished at the next 100-hour / 12-month (annual-type) inspection.
- The part number S3443-1-1 AVIONICS switch shall be replaced every 500 hours of operation.
- Subsequent actions: This Service Bulletin and 500-hour component life limit shall remain in effect until superseded by revision of the Component Time Limits Section of the airplane Maintenance Manual (latest revision).

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MANPOWER

If necessary, 1.2 man-hours to replace the AVIONICS switch

REFERENCES

- Model 172 Series 1996 and On Maintenance Manual
- Model 182/T182 Series 1997 and On Maintenance Manual
- Model 206/T206 Series 1998 and On Maintenance Manual
- Model 172R/172S Wiring Diagram Manual
- Model 182S/182T/T182T Wiring Diagram Manual
- Model 206H/T206H Wiring Diagram Manual

NOTE: Make sure all publications used are complete and current. Refer to www.cessnasupport.com.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness and must be accomplished for ongoing airworthiness compliance as necessary in accordance with 14 CFR Part 43.13.

OTHER PUBLICATIONS AFFECTED

- Model 172R & Model 172S Illustrated Parts Catalog
- Model 182S/182T/T182T Illustrated Parts Catalog
- Model 206H & Model T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current. Refer to cessnasupport.com.

MATERIAL AVAILABILITY

The following parts are available from Cessna Service Parts and Programs through an appropriate Cessna Authorized Service Facility:

Part Number	Description	Qty/Airplane
S3443-1-1	Switch, Split Dual Rocker	1

ACCOMPLISHMENT INSTRUCTIONS

WEIGHT AND BALANCE INFORMATION

Negligible

Material Information

The part below may be necessary:

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
S3443-1-1	1	Switch, Split Dual Rocker	Same	Discard

Instructions

1. Lock in the airplane paperwork to see if the AVIONICS switch was installed within the last 500 hours of operation of the airplane.
 - A. If the switch was installed within the last 500 hours of operation of the airplane, go to Step 2.
 - B. If the total time in service for the switch is 500 hours of operation or more, do as follows:
 - (1) Prepare the airplane for maintenance.
 - (a) Make sure that all switches are in the OFF/NORM position.
 - (b) Disconnect electrical power from the airplane.
 1. Electrically ground the airplane.
 2. Disconnect external electrical power.
 3. Disconnect the airplane battery.
 - (2) Attach maintenance warning tags to the battery and external power receptacle that have "**DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS**" written on them.
 - (3) Remove the AVIONICS switch from the airplane as follows: (Refer to the applicable Airplane Model Maintenance Manual, Chapter 31, Instrument and Control Panels - Maintenance Practices.)
 - (a) Make sure that the MASTER and AVIONICS switches are in the off position.
 - (b) Remove and keep the screws that attach the switch panel to the instrument panel.
 - (c) Carefully pull out the switch panel as necessary to get access behind the switch panel.
 - (d) As applicable, record the location of the wires attached to the AVIONICS switch.
 - (e) Remove all four switch terminal screws to disconnect the AVIONICS switch from the switch wires.
 - (f) Remove the mounting bezel from the switch.
 - (g) Remove the AVIONICS switch from the switch panel.
 - (4) Discard the AVIONICS switch.
 - (5) Install a new S3443-1-1 AVIONICS switch as follows:
 - (a) Attach the AVIONICS switch to the kept switch mounting bezel.
 - (b) Use the recorded wire locations to correctly connect all four wires to the switch with the terminal screws supplied with the new S3443-1-1 AVIONICS switch.
 - (c) Torque the switch terminal screws to 10 inch-pounds, +2 or -2 inch-pounds.
 - (d) Carefully install the S3443-1-1 AVIONICS switch and the switch mounting bezel into the switch panel.
 - (e) Put the switch panel in position on the instrument panel.
 - (f) Install the kept screws that attach the switch panel to the instrument panel.
 - (g) Remove maintenance warning tags from battery and external power receptacle and connect the battery.
 - (h) Do an operational test of the AVIONICS switch.
2. Make an entry in the airplane logbook that states compliance and method of compliance with this Service Bulletin.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness and must be accomplished for ongoing Airworthiness Compliance as necessary in accordance with 14 CFR Part 43.13.

SB11-24-02
July 22, 2011

Page 3

Page 4

SB11-24-02
July 22, 2011

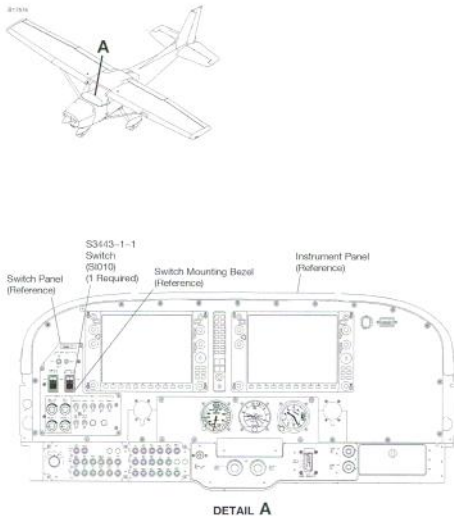


Figure 1. Electrical Switch Inspection and Replacement (Sheet 1)

SB11-24-02
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SB11-24-02
July 22, 2011

Page 5

OWNER NOTIFICATION

On August 12, 2011 the following message will be sent to applicable owners of record in SB11-24-02A.

Dear Cessna Single-Engine Piston Owner:

This Owner Advisory is to inform you that SB11-24-02 has been issued.

On airplanes equipped with the Garmin G1000 Avionics system, the AVIONICS switch may not operate correctly when it is used beyond its serviceable life limit. Cessna has decided to limit the life of this switch to 500 hours of operation.

An inspection of the airplane paperwork is accomplished to determine the length of time the installed AVIONICS switch has been in service. Switches that have been in service for 500 hours of operation or more shall be replaced.

Recommended:

- A one time inspection of the maintenance records of the airplane to determine the time in service of the AVIONICS switch shall be accomplished at the next 100-hour / 12-month (annual-type) inspection.
- The part number S3443-1-1 AVIONICS switch shall be replaced every 500 hours of operation.
- Subsequent actions: This Service Bulletin and 500-hour component life limit shall remain in effect until superseded by revision of the Component Time Limits Section of the airplane Maintenance Manual (latest revision).

The information contained in the referenced Cessna Service Bulletin must be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness, and must be accomplished for ongoing Airworthiness Compliance as required per 14 CFR Part 43.13.

Please contact a Cessna Single Engine Authorized Service Facility for detailed information and arrange to have Cessna Service Bulletin SB11-24-02 accomplished on your airplane.

Page 6

SB11-24-02
July 22, 2011

SNL 11-9 Electronic Pilot's Checklist

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



Service Newsletter

May 24, 2011

SNL11-9

TITLE

ELECTRONIC PILOT'S CHECKLIST

TO

Cessna Distributors, Single Engine Authorized Service Facilities, and affected Owners of Record

MODELS AFFECTED

All of the following propeller model airplanes equipped with the Garmin G1000 Avionics System:
172R, 172S, 182T, T182T, 206H, and T206H

DISCUSSION

The Electronic Pilot's Checklist for the above affected airplanes is available by download from www.cessnasupport.com.

After installation, the Electronic Pilot's Checklist will be displayed on the Multi-Function Display (MFD) unit.

NOTE: The Electronic Pilot's Checklist is presented in the English language only.

Like the paper copy of the Pilot's Checklist, the Electronic Pilot's Checklist is provided as a quick reference for convenience purposes only. Use of the Electronic Pilot's Checklist does not replace the requirement to use the approved Pilot's Operating Handbook (POH)/Airplane Flight Manual (AFM) instructions. The operator must verify and maintain current Electronic Pilot's Checklist files that will be made available with POH/AFM revisions.

Should inspection of the Electronic Pilot's Checklist file show that it is not current with the Pilot's Checklist revision, the owner/operator must remove the out-of-date Electronic Pilot's Checklist from the airplane or replace it with the current checklist. To do this, remove the Electronic Pilot's Checklist SD Card from the top MFD SD Card slot.

checklist update
completed 5/27/11

Page 1 of 2

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Customer Service, P.O. Box 7736, Wichita, Kansas 67277, U.S.A. (316) 517-6830, Facsimile (316) 517-7271
www.cessnasupport.com

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U: nonaviation
P: Aviation

INSTRUCTIONS

1. Go to www.cessnasupport.com.
2. In the Customer Service box click on Customer Access and Login (if this is the first time that you have used the site, click Register).
3. Once you are logged in, choose your model in the "My Models" table on the left side of the screen.
4. If your model is not visible, add your model using the "My Preferences" tab.
5. In your model-specific screen, review the Maintenance Information and click Maintenance Software.
6. Click the link and follow the instructions to download and install the Electronic Checklist (ECL) file that is applicable to your model (i.e. turbo or non-turbo) and installed equipment (i.e. KAP140 or GFC700 autopilot).

OWNER NOTIFICATION

On May 24, 2011 a copy of this Service Newsletter will be sent to applicable owners of record in SNL11-9.



Owner Advisory

August 31, 2010

SB10-57-01A

Dear Cessna Owner:

This Owner Advisory is to inform you that SB10-57-01 Spar Rivet Inspection has been issued.

It has been determined that some airplanes may have two universal head type rivets installed through the left lower spar cap and the spar web at WS 99.00 and WS 97.00, where countersink head type rivets should have been installed.

The two rivets are examined to see if they are universal head type rivets. If universal head type rivets are installed, they must be removed and new countersink head type rivets are installed. In addition, if universal head type rivets are installed, an inspection of the strut upper fitting must be done to see if there is damage to the fitting. If there is damage to the fitting, the damage is to be repaired.

Compliance is Mandatory: Shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for Continued Airworthiness, and shall be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.

CREDIT INFORMATION

For Airplanes in Warranty

A labor allowance credit of 0.5 man-hour per airplane will be provided to perform the inspection.

If necessary, applicable parts credit and a labor allowance credit of 3.5 man-hour will be provided to replace the rivets.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below.

Domestic	August 17, 2011
International	August 17, 2011

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB10-57-01 accomplished on your airplane.

Page 1 of 1

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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www.cessnaaircraft.com

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Single Engine

**Service Bulletin**

August 18, 2008

SB08-11-02

TITLE

ELECTRONIC PILOT'S CHECKLIST

EFFECTIVITY

The following airplanes equipped with the Garmin G1000 Nav III Avionics Option:

Model	Serial Numbers
172R	17281497 thru 17281544
172S	172S10656 thru 172S10782
182T	18282046 thru 18282129
T182T	T18208807 thru T18208893
206H	20608303 thru 20608311
T206H	T20608801 thru T20608869

NOTE: Airplane serial numbers beyond the above serial numbers will have the Electronic Pilot's Checklist installed during production of the airplane.

REASON

To provide the Electronic Pilot's Checklist for the above affected airplanes. After installation, the Electronic Pilot's Checklist will be displayed on the Multi-Function Display (MFD) unit.

NOTE: The Electronic Pilot's Checklist is presented in the English language only.

DESCRIPTION

The Electronic Pilot's Checklist is provided on a Secure Digital (SD) Card and instructions for installation of the checklist must be performed as described in this Service Bulletin.

Like the paper copy of the Pilot's Checklist, the Electronic Pilot's Checklist is provided as a quick reference for convenience purposes only. Use of the Electronic Pilot's Checklist does not replace the requirement to use the approved Pilot's Operating Handbook (POH)/Airplane Flight Manual (AFM) instructions. The operator must verify and maintain current Electronic Pilot's Checklist files that will be made available with POH/AFM revisions. Should inspection of the Electronic Pilot's Checklist file show that it is not current with the Pilot's Checklist revision, the owner/operator must remove the out-of-date Electronic Pilot's Checklist from the airplane or replace it with the current checklist. To do this, remove the Electronic Pilot's Checklist SD Card from the top MFD SD Card slot.

Page 1 of 5

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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COMPLIANCE

Recommended: should be accomplished within the next 100 hours of operation or 6 months, whichever occurs first.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MANPOWER

Approximately 0.3 man-hour to install the Electronic Pilot's Checklist.

REFERENCES

Model 172 Series 1996 and On Maintenance Manual

Model 182/T182 Series 1997 and On Maintenance Manual

Model 206/T206 Series 1998 and On Maintenance Manual

Garmin G1000 NAV III Line Maintenance Manual, Part Number 190-00352-00, Revision H (or latest revision)

Garmin G1000 Line Maintenance Manual And Configuration Manual, Part Number 190-00303-04, Revision D (or latest revision)

NOTE: Make sure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual and should be accomplished within the specified time requirement.

OTHER PUBLICATIONS AFFECTED

Model 172 Series 1996 and On Illustrated Parts Catalog

Model 182S/182T/T182T Illustrated Parts Catalog

Model 206H & Model T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

MATERIAL AVAILABILITY

The parts below are available from Cessna Customer Service at Phone: 316-517-5800 or Fax: 316-517-7271.

NOTE: Orders should be placed by completing and returning the attached Electronic Pilot's Checklist Order Form.

Part Number	Description	Qty/Airplane
172RCLBUSGSW	Model 172R Electronic Pilot's Checklist	1
172SCLBUSGSW	Model 172S Electronic Pilot's Checklist	1
182TCLBUSGSW	Model 182T Electronic Pilot's Checklist	1
T182TCLBUSGSW	Model T182T Electronic Pilot's Checklist	1
206HCLBUSGSW	Model 206H Electronic Pilot's Checklist	1
T206HCLBUSGSW	Model T206H Electronic Pilot's Checklist	1

CREDIT INFORMATION

The Electronic Pilot's Checklist will be provided at no charge as detailed in the attached Electronic Pilot's Checklist Order Form and must be ordered by the following expiration date:

Domestic December 23, 2008
 International December 23, 2008

ACCOMPLISHMENT INSTRUCTIONS

Weight And Balance Information
 Negligible

Instructions

1. Prepare the airplane for maintenance.
 - A. Make sure that all switches are in the OFF/NORM position.
2. Make sure that the battery is connected. If desired, connect external electrical power to the airplane.
3. Make sure of approved system software as follows:
 - A. Make sure that all of the necessary circuit breakers are engaged for normal mode startup of the Garmin G1000 system.
 - B. Put the MASTER BAT switch and the AVIONICS BUS 1/BUS 2 switches to the ON position and let the system power up.
 - C. In the AIRFRAME display box on the AUX-SYSTEM STATUS page on the MFD, make sure that the applicable airplane model software version displayed is as shown in Table 1.

Table 1. For GARMIN G1000 NAV III airplanes equipped with the GARMIN GFC-700 Autopilot

Model	Nav III System Software Version	POH/AFM	Pilot's Checklist
172R	0563.06 or later	172RPHBUS-00	172RCLBUS-00
172S	0563.06 or later	172SPHBUS-00	172SCLBUS-00
182T	0563.06 or later	182TPHBUS-01	182TCLBUS-01
T182T	0563.06 or later	T182TPHBUS-01	T182TCLBUS-01

SB06-11-02
 August 18, 2008

Page 3

Model	Nav III System Software Version	POH/AFM	Pilot's Checklist
206H	0563.06 or later	206HPHBUS-01	206HCLBUS-01
T206H	0563.06 or later	T206HPHBUS-01	T206HCLBUS-01

- D. Make sure that the software version, POH/AFM, and Pilot's Checklist in the airplane are as shown in Table 1.
- E. If the software version, POH/AFM, and Pilot's Checklist installed on your airplane are as shown in Table 1, go to Step 4.
- F. If the software version, POH/AFM, or Pilot's Checklist installed on your airplane is not as shown in Table 1, do as follows:
 - (1) If the software version on your airplane is not the correct software version shown in Table 1, load the correct software with the Cessna NAV III Installation Software CD found in the protective sleeve from the POH. (Refer to the Garmin G1000 NAV III Line Maintenance Manual Revision M or latest revision.)
 - (2) If the POH/AFM on your airplane is not the correct revision shown in Table 1, update to the correct revision.
 - (3) If the Pilot's Checklist on your airplane is not the correct version shown in Table 1, replace it with the correct version.
4. Do the enablement of the Garmin G1000 Electronic Pilot's Checklist as follows:
 - A. Disengage the MFD (AVN BUS 2) circuit breaker.
 - B. Put the applicable airplane model and part number Electronic Pilot's Checklist SD Card into the top SD card slot in the MFD. Make sure that you install the correct model SD card.

NOTE: The Electronic Pilot's Checklist SD Card stays in the top SD card slot in the MFD. You do not remove it.

NOTE: The Electronic Pilot's Checklist SD Card is model and equipment specific. If you install the incorrect model SD card, the Electronic Pilot's Checklist will not operate.
 - C. Engage the MFD (AVN BUS 2) circuit breaker.
5. Make sure that the Electronic Pilot's Checklist is installed correctly as follows:
 - A. If "CHECKLIST" and the correct part number Electronic Pilot's Checklist as shown in Table 1 for the applicable model shows on the AIRFRAME display box on the AUX-SYSTEM STATUS page of the MFD, the Electronic Pilot's Checklist is installed correctly. Go to Step 6.
 - B. If "CHECKLIST NOT AVAILABLE" shows on the AIRFRAME display box on the AUX-SYSTEM STATUS page of the MFD or does not show at all, you must try to install the Electronic Pilot's Checklist again. Do Steps 4A thru 4C again until "CHECKLIST" and the applicable part number Electronic Pilot's Checklist shows on the AIRFRAME display box on the AUX-SYSTEM STATUS page of the MFD in white.
6. Put the MASTER BAT switch and the AVIONICS BUS 1/BUS 2 switches in the off position.
7. If connected, remove external electrical power from the airplane.
 - A. Make an entry in the airplane logbook that states compliance and method of compliance with this Service Bulletin.

Page 4

SB06-11-02
 August 18, 2008

OWNER NOTIFICATION

On August 18, 2008 the following message will be sent to applicable owners of record in SB08-11-02A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB08-11-02: Electronic Pilot's Checklist has been issued and the checklist is available for your airplane. After installation, the Electronic Pilot's Checklist will be displayed on the Multi-Function Display (MFD) unit.

NOTE: The Electronic Pilot's Checklist is presented in the English language only.

The Electronic Pilot's Checklist is provided on a Secure Digital (SD) Card and instructions for installation of the checklist shall be performed as described in SB08-11-02.

Like the paper copy of the Pilot's Checklist, the Electronic Pilot's Checklist is provided as a quick reference for convenience purposes only. Use of the Electronic Pilot's Checklist, does not replace the requirement to use the approved Pilot's Operating Handbook (POH)/Airplane Flight Manual (AFM) instructions. The operator must verify and maintain current Electronic Pilot's Checklist files that will be made available with POH/AFM revisions. Should inspection of the Electronic Pilot's Checklist file show that it is not current with the Pilot's Checklist revision, the owner/operator must remove the out-of-date Electronic Pilot's Checklist from the airplane or replace it with the current checklist. To do this, remove the Electronic Pilot's Checklist SD Card from the top MFD SD Card slot.

Compliance is recommended: should be accomplished within the next 100 hours of operation or 6 months, whichever occurs first.

The Electronic Pilot's Checklist will be provided at no charge, if ordered by December 23, 2008.

The information contained in the referenced Cessna Service Bulletin must be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual and should be accomplished within the specified time requirement.

Special Ordering Information and Procedure

Owners should order and obtain the Electronic Pilot's Checklist from Cessna Customer Service by using the attached ELECTRONIC PILOT'S CHECKLIST ORDER FORM. Then take the Electronic Pilot's Checklist SD Card to a Cessna Single Engine Service Station for the initial installation.

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB08-11-02 accomplished on your airplane.

SB08-11-02
August 18, 2008

Page 5



THANK YOU FOR SUBSCRIBING TO THE ELECTRONIC CHECKLIST

We are confident that you will find the Electronic Checklist compliments your NAV III/ Garmin G1000 system. The MFD is able to display optional electronic checklists, customized for the Cessna Nav III, which allow a pilot to quickly find the proper procedure on the ground and during each phase of flight.

NOTICE

The Pilot's Checklist should not be used until the flight crew has become completely familiar with the airplane and systems. All normal and emergency procedure items and complete performance in the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual shall take precedence in case of conflict.

REVISIONS

Electronic Checklist Subscription provided by The Cessna Aircraft Company will cover changes and/or additions to this electronic checklist. A CD containing the latest revisions to the Electronic Checklist will be sent automatically to you as part of the subscription service. The information contained on the CD can then be transferred onto the SD Card and reinserted with the updated Electronic Checklist file into the MFD.

CURRENCY

It is the responsibility of the owner to maintain this checklist in a current status when it is being used for operational purposes.

Owners should contact a Cessna Service Station whenever the Revision Status for their checklist is in question. The Revision Status Checklist is available on-line at cessnasupport.com. A Revision Status Checklist is also available in an automatic subscription service. Contact Cessna Propeller Aircraft Customer Services at 316-517-5800 for more information.

INSTALLATION PROCESS

1. Initial installation must be completed by an authorized Cessna Service Facility to ensure compliance with SB06-34-02 or later.
2. Insert the Electronic Checklist into the upper SD slot on the Multi Function Display (MFD) before the system is started.
3. When the BUS 2 switch is turned on the part number of the Electronic Pilot's Checklist will appear in the Power-Up display. If the SD card contains a valid checklist file, the power-up splash screen displays both the aircraft make and model to which the checklist applies and copyright information. If the SD card contains an invalid checklist file or no checklist, the power-up splash screen displays 'Invalid Checklist' or 'Checklist File Not Present' and the CHKLST Softkey is disabled. If this error occurs, please call Cessna Propeller Aircraft Customer Service at 316-517-5800.

Cessna
E-Pilot's Checklist



ACCESSING AND NAVIGATING CHECKLISTS:

- 1) From any page, select the **CHKLIST** Softkey.
- 2) Turn the large **FMS** Knob to select the 'GROUP' field.
- 3) Turn the small **FMS** Knob to select the desired procedure and press the **ENT** Key.
- 4) Turn the large **FMS** Knob to select the 'Checklist' field.



- 5) Turn the **FMS** Knob to select the desired checklist and press the **ENT** Key.
- 6) Turn the **FMS** Knob to scroll through the checklist and highlight the desired checklist item (has a hollow white box for checkmark).

The following colors are used for checklist items:

- Blue - Item has not been highlighted.
- White - Item is highlighted for selection.
- Green - Item has been selected.
- Yellow - Warning notes.



- 7) Press the **ENT** Key or **DONE** Softkey to select the highlighted checklist item (item turns green and a checkmark is placed in the box next to the item). The next item is automatically highlighted for selection. Press the **CLR** Key to remove a check mark from an item.
- 8) Once the last item in a checklist is selected, 'Go to the next checklist?' is highlighted. Press the **ENT** Key to advance to the next checklist displayed.
- 9) Press the **EXIT** Softkey or hold down the **CLR** Key momentarily to exit the Checklist Page and return to the page last viewed.

IMMEDIATELY ACCESSING EMERGENCY PROCEDURES:

- 1) From any page, select the **CHKLIST** Softkey.
- 2) Press the **EMERGENCY** Softkey.



Owner Advisory

August 31, 2009

SB09-55-02A

Dear Cessna Owner:

This Owner Advisory is to inform you that SB09-55-02A: Horizontal Rear Spar Inspection has been issued.

It has been determined that on some airplanes the end of the horizontal stabilizer left and/or right rear spar may not be nested correctly in the spar lip joggle. The resultant overlap between the spar and the spar lip could over time potentially contribute to cracking in this area.

An inspection is done to see if there is joggle interference. If there is joggle interference, the skin in the area of the joggle is pulled back and the inboard section of the spar is trimmed until there is no interference with the joggle.

Compliance is mandatory: shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.

For airplanes in warranty:

A labor allowance credit of 0.3 man-hour per airplane will be provided to inspect the joggle area between the horizontal stabilizer left and right rear spars and the spar tips.

If necessary, applicable parts credit and a labor allowance credit of 2.1 man hours per side will be provided to modify a rear spar.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below:

Domestic August 31, 2010
 International August 31, 2010

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB09-55-02 accomplished on your airplane.

Page 1 of 1

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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MAINTENANCE RECORD				
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		

SERVICE BULLETIN COMPLIANCE RECORD																																									
S.B. NUMBER	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		NEXT COMPLIANCE DATE	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS																																			
		APPROX.	COMPONENT																																						
<table border="1"> <thead> <tr> <th colspan="7">Service Publication Compliance Record</th> </tr> <tr> <th>Service Information Number</th> <th>Description</th> <th>Completed With</th> <th>Method of Compliance or Applicability Status</th> <th>Date of Repair</th> <th>Next Due Date/Time</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>CAUTION 50-5003</td> <td>WETTED PRESURE-SENSITIVE ADHESIVE</td> <td>OK</td> <td>PER ALL APPROPRIATE SERVICE BULLETINS THAT ARE APPLICABLE TO THIS AIRCRAFT</td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>GEN 17-01</td> <td>WASH AND DRY AIR SYSTEMS AND ENGINE EXHAUST</td> <td>OK</td> <td>PER ALL APPROPRIATE SERVICE BULLETINS THAT ARE APPLICABLE TO THIS AIRCRAFT</td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>SB 09-55-02</td> <td>REAR SPAR INSPECTION</td> <td>OK</td> <td>PER ALL APPROPRIATE SERVICE BULLETINS THAT ARE APPLICABLE TO THIS AIRCRAFT</td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>							Service Publication Compliance Record							Service Information Number	Description	Completed With	Method of Compliance or Applicability Status	Date of Repair	Next Due Date/Time	Remarks	CAUTION 50-5003	WETTED PRESURE-SENSITIVE ADHESIVE	OK	PER ALL APPROPRIATE SERVICE BULLETINS THAT ARE APPLICABLE TO THIS AIRCRAFT				GEN 17-01	WASH AND DRY AIR SYSTEMS AND ENGINE EXHAUST	OK	PER ALL APPROPRIATE SERVICE BULLETINS THAT ARE APPLICABLE TO THIS AIRCRAFT				SB 09-55-02	REAR SPAR INSPECTION	OK	PER ALL APPROPRIATE SERVICE BULLETINS THAT ARE APPLICABLE TO THIS AIRCRAFT			
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Compliance verified at time of delivery. Authorized Inspector Signature and Stamp: <i>Douglas L. Thompson</i>																																									

Service Bulletins Performed on N6330X s/n 172510776				
Air Care Inc.				
Service Bulletin #	Tach Time	WO #	Date Performed	Description of Service Bulletin
SB08-74-01	94	21137	11/7/2008	Mag insp
SB08-73-01	94	21137	11/7/2008	Fuel servo insp
SB09-34-05	190.6	21375	6/30/2009	G1000 software upgrade
SB09-55-01	190.6	21375	6/30/2009	Rudder rwet insp
SB08-74-01R1	190.6	21375	6/30/2009	Mag insp

SB 07-34-01AR2 Owner Advisory

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



N/A

Owner Advisory

October 19, 2009 SB07-34-01AR2

Dear Cessna Owner:

This Owner Advisory is to inform you that an Option has been issued for the optional Garmin G1000 ChartView that is powered by Jeppesen Sanderson, Inc. ChartView has the ability to provide worldwide and regionalized electronic Jeppesen charts that depict the airplane position on a chart shown on the Multi-Function Display. ChartView requires an enablement card and a sustaining Electronic Chart Database Subscription that is obtained from Jeppesen and is available on an annual subscription basis. Jeppesen currently updates the ChartView database every 14 days which can be obtained via the Internet.

NOTE: A ChartView subscription must be obtained from Jeppesen (1-800-621-6377 or www.jeppesen.com) prior to scheduling to have SB07-34-01R2 accomplished on your airplane.

Operating instructions for ChartView are provided in the Garmin G1000 Integrated Flight Deck Cockpit Reference Guide for Cessna NAV III, Part Number 190-00384-07 Rev. A (or latest revision).

Compliance is Optional; may be accomplished if desired.

NOTE: Compliance with this revision is not required if in compliance with the Original Issue or Revision 1 of this Service Bulletin.

NOTE: Garmin G1000 System Software Upgrade to Version 0563.03 (or later software) is required before compliance with this Service Bulletin. Accomplishment of SB07-34-02 (or later revision) installs software version 0563.03.

NOTE: Garmin System Software Version 0563.11 (or later software) is required before you can use the 010-00330-43 GDU Supplemental Database SD Cards. If you do not have Version 0563.11 or later software installed, accomplishment of SB09-34-05 (for airplanes with GFC 700 Autopilot) or SB09-34-06 (for airplanes with KAP-140 Autopilot) installs it on your airplane.

NOTE: The 010-00330-43 GDU Supplemental Database SD cards are required for use with Garmin Synthetic Vision Technology (SVT). It is recommended that you order the 010-00330-43 cards if you are considering purchasing SVT at a later date.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB07-34-01 Revision 2 accomplished on your airplane.

* * * * *

Page 1 of 1

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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Single Engine ATTACHMENT

		SB07-34-01 Revision 2		
PART NO.	DESCRIPTION	PRICE	X QTY =	TOTAL
010-00330-53*	ChartView Enablement SD Card	\$3180	X	=
010-00330-42	GDU Supplemental Database SD Cards (2 each per airplane)	\$1150/ Airplane	X	=
010-00330-43**	GDU Supplemental Database SD Cards (2 each per airplane)	\$1150/ Airplane	X	=

*Requires a separate Jeppesen G1000 Electronic Chart Service Database Subscription that can be obtained by contacting Jeppesen at 1-800-621-6377 or www.jeppesen.com.

**NOT REQUIRED FOR AIRPLANE SERIAL NUMBERS 172B1545 and On, 172S10673 and On, 180B2146 and On, 110008908 and On, 200B3317 and On, AND 720B0801 and On. THE 010-00330-43 GDU SUPPLEMENTAL DATABASE SD CARDS WERE FACTORY INSTALLED ON THOSE AIRPLANES.

	Subtotal	
Tax** %	Tax	
*** ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE ***		Total

THIS FORM MAY BE COMPLETED AND SUBMITTED BY A CESSNA SINGLE ENGINE SERVICE STATION OR AN INDIVIDUAL AIRPLANE OWNER. Please complete the following:

Service Station Information: Airplane Serial Number: _____ Service Station Name: _____ Contact Name: _____ Shipping Address: _____ City: _____ State: _____ Postal Code: _____ Country: _____ Phone Number: _____ Fax Number: _____	Owner Information: System ID Number: _____ Owner/Company Name: _____ Contact Name: _____ Mailing Address: _____ City: _____ State: _____ Postal Code: _____ Country: _____ Phone Number: _____ Fax Number: _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Payment Information:
 (Circle One) VISA, MasterCard, American Express Name on the Card: _____
 Card Number: _____ Expiration Date: ____/____/____

Cessna Customer Account Number: _____

Wire Transfer: Please submit order form prior to sending wire information. J.P. Morgan Chase Bank 1 Chase Manhattan Plaza New York, New York, 10061 USA. Account Number 810-1-209543, ABA Routing Number 0210-00021 Swift code Cchus333.

Customer Signature: _____ Date: ____/____/____

By signing this order form the customer agrees that, upon shipment to the customer, this purchase is non-refundable. Customer also understands that ChartView will require compliance with a Cessna Service Bulletin and may only be installed by a Cessna Authorized Service Station.

Fax Number: (316) 517-7271 Cessna Aircraft Company Dept. 751P.O., Box 7706 Wichita, Kansas 67277-7706 Phone Number: (316) 517-5800	SPECIAL NOTE: Orders are shipped premium carrier within 3-5 business days. **All orders will be charged sales tax unless a copy of your tax exemption form is included with this order.
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Service Newsletter

August 1, 2005

SNL05-11

TITLE

ENGINE STARTER DUTY CYCLE TIMES

TO

Cessna Distributors, Single Engine Service Stations, CPC's and Applicable Owners of Record

EFFECTIVITY

All model 172R, 172S, 182S, 182T, T182T, 200H and T200H airplanes.

DISCUSSION

Reports have been received of failed engine starters at relatively low hours of operation. This Service Newsletter is being issued as a reminder about the engine starter duty cycle times as stated in the Pilot's Operating Handbook.

Normal Procedures: Starter duty cycle. Crank the starter for 10 seconds followed by a 20 second cool down period. This cycle can be repeated two additional times, followed by a ten minute cool down period before resuming cranking. Repeat cranking procedures above one more time. If the engine still fails to start, an investigation to determine the cause should be initiated. This duty cycle time should be strictly followed to enhance starter life and assist in reducing the possibility of premature engine starter failure.

For airplanes equipped with a Lamar engine starter, it is recommended that during normal scheduled 50 hour maintenance intervals, the starter drive should be lubricated as specified in the applicable model airplane Maintenance Manual. Lamar Technologies Corporation has also issued Service Information Letter No. SIL LSI-001 which outlines starter drive lubrication procedures. According to Lamar Technologies Corporation, operation of the affected starter motors will be improved, especially during cold weather, if the following procedure is accomplished after each 50 hours of engine operation.

1. Wash Bendix starter drive assembly with clean petroleum spirits.
2. Lubricate the Bendix starter drive assembly with spray silicone.

CAUTION: DO NOT USE SOLVENTS OTHER THAN PETROLEUM SPIRITS TO WASH THE STARTER DRIVE. ALSO, DO NOT USE GREASE, OIL OR GRAPHITE LUBRICANTS. ONLY SILICONE SPRAY LUBRICANTS ARE RECOMMENDED FOR SATISFACTORY OPERATION.

For model 206 airplanes equipped with a Sky-Tec engine starter, according to Sky-Tec, a small amount of dry-silicone type lubricant or light LPS (1) may be applied to the drive pinion gear and/or shaft to minimize surface corrosion. Never pressure wash the starter with water or any form of degreasing agent. Simply wipe it clean to remove any surface contaminants.

OWNER NOTIFICATION

On August 1, 2005 a copy of this Service Newsletter will be mailed to applicable Owners of Record for airplanes in warranty.

Page 1 of 1

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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652 Oliver Street
Williamsport, PA 17791 U.S.A.
Tel: 570-323-0181
Fax: 570-327-7101
www.lycoming.aertron.com

SERVICE INSTRUCTION

DATE: July 1, 2002 Service Instruction No. 1505
Engineering Aspects are
FAA Approved

SUBJECT: Cold Weather Starting

MODELS AFFECTED: All Lycoming aircraft engines.

TIME OF COMPLIANCE: At engine start in cold weather.

In extremely low temperatures, oil congeals, battery capacity is lowered, and the starter can be overworked. Improper cold weather starting can result in abnormal engine wear, reduced performance, shortened time between overhauls, or failure for the engine to operate properly.

The use of pre-heat will facilitate starting during cold weather, and is required when the engine has been allowed to drop to temperatures below +10°F/-12°C (+20°F/-6°C for -76 series engine models).

Be sure that the engine oil is in compliance with the recommended grades.

NOTE

The use of a heated dipstick is not approved because heat is not distributed throughout the engine, and concentrated heat may damage non-metal engine parts. Proper pre-heat requires a thorough decongealing of all oil.

To pre-heat using hot air:

1. Use a high-volume hot air heater.

CAUTION

DIRECT THE HOT AIR CAREFULLY TO AVOID HEAT DAMAGE TO NON-METAL PARTS. OPEN COWL FLAPS IF INSTALLED, SO THAT HEAT BUILD-UP DOES NOT DAMAGE WIRING, HOSES, ETC.

2. Apply hot air directly to the oil sump, external oil lines, cylinders, air intake, oil cooler and oil filter in 5 to 10 minute intervals. Between intervals, feel the engine to be sure that it is retaining warmth. Also check to be sure that there is no damaging heat build-up. During the last 5 minutes, direct heat to the top of the engine.

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Page 1 of 2

Service Instruction No. 1505

3. Immediately after pre-heating, start the engine according to the normal starting process. Avoid cranking for more than 5 seconds each start attempt.

NOTE

Due to the battery being cold and subject to rapid discharge, an auxiliary power source is recommended.

4. Avoid rapid acceleration after a cold start. Do not exceed idle RPM, recommended in the engine Operator's Manual, until oil pressure is stabilized above the minimum idling range. Allow up to one minute for oil pressure to stabilize, since lines to the gage may remain cold. If oil pressure is not indicated within 30 seconds, shut down the engine and determine the cause. If no leaks or damage is found, repeat the pre-heat before restarting.
5. Allow the engine to warm up at idle speed until oil pressure and temperature are stabilized within normal limits and proceed to ground check in accordance with the airframe manufacturer's Pilots Operating Handbook.
6. Cycle the propeller control in accordance with the airframe and propeller manufacturer's instructions to insure warm oil is circulated into the propeller dome.
7. After completing the ground check, and before attempting takeoff, check oil pressure, oil temperature, and cylinder head temperature to be sure that all are well within their normal operating ranges.
8. Insure that when takeoff power is applied smoothly, oil pressure, fuel flow, manifold pressure, and RPM are steady. Surges or fluctuations may indicate that the engine is not warm enough for takeoff.

CAUTION


THE ENGINE MAY NOT BE WARM ENOUGH FOR TAKEOFF IF THERE ARE INDICATIONS OF:

1. ENGINE ROUGHNESS
2. LOW, HIGH OR SURGING RPM
3. HIGH, LOW, OR FLUCTUATING OIL PRESSURE
4. HIGH OR LOW FUEL FLOW
5. EXCESSIVE MANIFOLD PRESSURE

Cessna Airframe Record

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

SERVICE BULLETIN COMPLIANCE RECORD								
S.B. NUMBER	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE S.B. (X)		NEXT COMPLIANCE DUE DATE	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
		AIRFRAME	COMPONENT	ONE TIME	RECURRING			

AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD									
A.D. NUMBER AND AMENDMENT NO.	METHOD OF COMPLIANCE	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE A.D. (X)		NEXT COMPLIANCE DUE DATE	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
			AIRFRAME	COMPONENT	ONE TIME	RECURRING			
A.D. Compliance Record									
Aircraft Model: 172B	Serial Number: 172S1076		Registration: N333X						
AD Number	Description	Complied With Date/Time	Method of Compliance or Applicability Status			Date of Repair	Next Due Date/Time		
22-25-01	For operations above 10,000 feet MSL	1/16/10	Visual inspection accomplished during flight test program			None	None		
2001-26-17	Replace with 100 Gallon Fuel Tank	7/26/07	Replaced fuel tank			None	None		
2002-28-14	Fuel system venting modification	7/26/07	Installed vented fuel tank using "B" Kit. Service per FAA AD 2002-28-14, 2002-28-14, and 2002-28-14.			None	None		
Compliance verified as true of identity. Authorized Inspector Signature and Stamp: <i>Douglas Thompson</i>  (A.I.C. 101760)									

N172RW
adNote
2001-6-17 N/M

172S10776
AD NUMBER

CE-172
Over-Rich Mixture Condition

TYPE AIRCRAFT

COMPLIANCE DATE	TOTAL TIME AT COMPLIANCE	TECHNICIAN SIGNATURE WITH THE PROVISIONS	METHOD OF COMPLIANCE	AUTHORIZED SIGNATURE & NUMBER

Amendment 39-12164, Oocket No. 2001-CE-14 AD.
 (4) What airplanes are affected by this AD? This AD applies to Models 172S and 172C, all serial numbers, that are certificated in any category.
 (5) Who must comply with this AD? Anyone who wishes to operate any of the above airplanes must comply with this AD.
 (6) What actions does this AD address? The actions specified by this AD are intended to detect and correct an over-rich fuel mixture (improper fuel flow settings), which could result in rough engine operation or engine stoppage. This over-rich fuel mixture also contributes to the engine not restarting during flight when using published in-flight restart procedures.
 (7) What must I do to address this problem? To address this problem, you must accomplish the following actions:

Action	Compliance Time	Special Instructions
(1) Accomplish one of the following inspections for proper engine idle speed and fuel control mixture setting: (i) <u>First Procedure:</u> Accomplish the inspection with the engine oil temperature between 20 and 150 degrees Fahrenheit (F). Adjust the engine idle setting to between 575 and 625 RPM per minute (RPM) and the mixture setting will produce a minimum 10 RPM rise and a maximum 20 RPM rise with the throttle at the hard ground stop. Screw the mixture control slowly counterclockwise to obtain the RPM rise. (ii) <u>Mechanic Procedure:</u> Accomplish the inspection with the engine oil temperature between 20 and 150 degrees F. Assume that the fuel mixture setting will produce a minimum 10 RPM rise and a maximum 20 RPM rise with the throttle at the hard ground stop. Screw the mixture control slowly counterclockwise. The reason the limits are different than the pilot procedure is that the mechanic needs to establish a more accurate RPM indicator than the airplane engine RPM gauge. You will most likely need to use an electronic tachometer to verify speed changes.	Within the next 10 hours time-in-service (TIS) after April 20, 2001 (the effective date of this AD), unless already accomplished.	The owner/operator holding at least a private pilot certificate as authorized by section 43.7 of the Federal Aviation Regulations (14 CFR 43.7) may accomplish the inspection specified in paragraph (i) of this AD. Make an entry into the aircraft records showing compliance with this portion of the AD in accordance with section 43.9 of the Federal Aviation Regulations (14 CFR 43.9). You may need to accomplish seasonal adjustments of the engine idle speed setting. These seasonal adjustments should not be included in your already established 1-month scheduled adjustments.
(2) If, during any inspection required by this AD, proper engine idle speed and fuel control mixture setting cannot be met, accomplish the following: (i) Adjust the fuel servo. This adjustment or replacement must be accomplished by an appropriately rated mechanic or at an appropriately rated repair station; and (ii) Repeat the inspection specified in paragraph (1)(i) of this AD.	Accomplish the adjustment (if required) prior to further flight after the inspection required by paragraph (1)(i) of this AD. Repeat within 20 hours TIS after the fuel servo adjustment.	If you have to adjust the servo more than twice over a 30-day period, obtain the next course of action from the FAA at the address referenced in paragraph (7) of this AD. We recommend you use an electronic tachometer to verify RPM settings when making any adjustment.

(Over)⇒

(Continuation of Airworthiness Directive 2001-06-17)

Action	Compliance Time	Special Instructions
(3) Add the following information to the end of page 3-20, Section 3 Emergency Procedures of the Cessna 172R or 172S Pilot's Operating Handbook (POH) and FAA-approved Airplane Flight Manual (AFM): "IDLE POWER ENGINE ROUGHNESS An excessively rich idle fuel flow may cause low speed engine roughness during flight. During most in-flight low engine speed (power at idle, approach to landing, etc.), the mixture control is normally in the full-rich position. However, to improve engine roughness (caused by an improperly adjusted fuel servo) during low engine speeds while in flight, you should rotate the mixture control (leaning of fuel mixture). You may also have to lean the fuel mixture if this low engine speed results in power loss and you need to restart the engine during flight. In all cases, you should land the airplane at the nearest airport for repair. If low speed engine roughness requires you to adjust the fuel mixture control to improve engine operation.	Within the next 10 hours TIS after April 20, 2001 (the effective date of this AD), unless already accomplished.	The owner/operator holding at least a private pilot certificate as authorized by section 43.7 of the Federal Aviation Regulations (14 CFR 43.7) may insert the information into the POH as specified in paragraph (3)(c) of this AD. You may insert a copy of this AD into the appropriate sections of the POH to comply with this action. Make an entry into the aircraft records showing compliance with portion of the AD in accordance with section 43.9 of the Federal Aviation Regulations (14 CFR 43.9).
(4) Insert the following information into the applicable Cessna Pilot's Operating Handbook (POH) and FAA-approved Airplane Flight Manual (AFM): "NORMAL PROCEDURES (Before Takeoff) Item 13. Throttle 1. Verify smooth engine operation at idle speed of 575 to 625 RPM, 2. 1000 RPM or LEAS"	Within the next 10 hours TIS after April 20, 2001 (the effective date of this AD), unless already accomplished.	The owner/operator holding at least a private pilot certificate as authorized by section 43.7 of the Federal Aviation Regulations (14 CFR 43.7) may insert the information into the POH to comply with this action. Make an entry into the aircraft records showing compliance with portion of the AD in accordance with section 43.9 of the Federal Aviation Regulations (14 CFR 43.9).

(5) Can I comply with this AD in any other way? You may use an alternative method of compliance or adjust the compliance time if:
 (1) Your alternative method of compliance provides an equivalent level of safety; and
 (2) The Manager, Wichita Aircraft Certification Office (ACO), approves your alternative. Submit your request through an FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Wichita ACO.
 Note: This AD applies to each airplane identified in paragraph (a) of this AD, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (a) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD, and, if you have not eliminated the unsafe condition, specific actions you propose to address it.
 (6) Where can I get information about any already-approved alternative methods of compliance? Contact Mr. Paul Pendleton, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, 1801 Airport Road, Mid-Continent Airport, Wichita, Kansas 67209; telephone (316) 946-4143; telex/telefax: (316) 946-4407.
 (7) Where do I need to go to the airplane to comply with this AD? The FAA can issue a special flight permit under sections 21.157 and 21.159 of the Federal Aviation Regulations (14 CFR 21.157 and 21.159) to operate your airplane to a location where you can accomplish the requirements of this AD.
 (8) When does this amendment become effective? This amendment becomes effective on April 20, 2001.
FOR FURTHER INFORMATION CONTACT: Mr. Paul Pendleton, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, 1801 Airport Road, Mid-Continent Airport, Wichita, Kansas 67209; telephone: (316) 946-4143; telex/telefax: (316) 946-4407; located in Kansas City, Missouri, on March 23, 2001.
 David R. Showers, Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

adNote logo and Superior Cylinders header with registration information.

Form for compliance with FAR 23.2711, including fields for engine model, compliance date, and authorized signature.

Annex 16 (IS-AS) EASA No. FAA-2006-08, European Identifier 2006-08-03-03

Effective Date: 01/01/2008 (AS) becomes effective May 7, 2007

Affected ADs: 2007-04-19

Applicability: FAR 23 AD applies to Superior Air Parts, Inc. (SAP) cylinder assemblies...

Table 1 - Affected Teledyne Continental Engine Models

Table 1: Teledyne Continental Engine Models with columns for engine model and affected ADs.

These engine models are included in, but not limited to, aircraft models listed in the following Table 2.

Aircraft Model Table 2 has been moved to page 2 of this document.

This AD also applies to SAP used on other engines...

Useful Checklist: FAR 23 AD means that compliance from the AD is required...

Compliance: It is your responsibility for having the actions required by this AD performed...

When a Checklist is Available: Check the AD for compliance...

Cylinder Assembly Removal: If all affected assemblies with a serial number...

Other Information: For more information about this AD, contact the AD Administrator...

AD History: This AD history page is provided for informational purposes only.

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(Continuation of Airworthiness Directive 2007-04-19)

Table 2 - Teledyne Continental Motors Related Aircraft Models

Table 2: Teledyne Continental Motors Related Aircraft Models with columns for engine model, aircraft model, and affected ADs.

Table 4 - Licensing Engines and Area Licensing Related Aircraft Models

Table 4: Licensing Engines and Area Licensing Related Aircraft Models with columns for engine model, aircraft model, and affected ADs.

N172PN AIRCRAFT REGISTRATION NO.	adNote	2008-2-6 N/M AD NUMBER
172540776 REGULATORY SERIAL NO.		
CE-172 TYPE AIRCRAFT	Garmin A/P GSM 85 Servo	

COMPLIANCE DATE	TOTAL TIME AT COMPLIANCE	TACHOMETER RECORDING NUMBER AND THE AIRCRAFT LOGS	METHOD OF COMPLIANCE	AUTHORIZED SIGNATURE & NUMBER
13-3-10	477.7	477.7	Wk by P/Modl	Lucas Rowland APL 3372542 Jm

Amendment 39-15336, Docket No. FAA-2007-28730, Directorate Identifier 2007-C4-053-AD

Effective Date: (A) This AD becomes effective on February 26, 2008.

Affected ADs:

(B) None.

Applicability:

(C) This AD applies to the GSM 85 servo gearbox units that are specified in paragraph (C)(1) of this AD and are installed on airplanes. These GSM 85 servo gearbox units are installed in, but not limited to, airplanes that are certificated in any category and presented in paragraph (C)(2) of this AD.

(1) GSM 85 servo gearbox units, part numbers (P/Ns): 011-00984-00, 011-00984-02, 011-00984-04, 011-00984-06, 011-00984-07, 011-00984-08, 011-00984-09, 011-00984-10, 011-00984-11, and 011-00984-14.

(2) Airplanes with the GSM 85 servo gearbox units installed (other aircraft could have installations through other methods such as field approval):

Type Certificate Holder	Models
(1) Diamond Aircraft Company	DMC 1750T, 2000, and 2250H
(2) Quest Aircraft Corporation	Q430 and Q440
(3) Diamond Aircraft Industries GmbH	DM40 and DM40P
(4) Columbia Aircraft Manufacturing	361 and 400
(5) Moorey Aircraft Company, Inc.	MSM and MCRH

Unsafe Condition

(D) This AD results from reports of certain GARMIN GSM 85 servo gearbox units that have foreign object debris inside the assembly. We are issuing this AD to detect and correct defective GARMIN GSM 85 servo gearbox units, which could result in jamming of the servo gearbox. This jamming could lead to the pilot having to apply sufficient control force to override the servo gearbox aileron clutch in order to control the airplane. In certain situations, this could compromise the safety of the airplane if the pilot was not able to focus on critical duties due to having to tend to the servo gearbox.

Compliance

(E) To address this problem, you must do the following, unless already done:

Actions	Compliance	Procedures
(1) Check the serial tag of the installed GSM 85 servo gearbox unit to determine the root level. The root level marked on the serial tag indicates if the GSM 85 servo gearbox unit is already in compliance with this AD.	Check within the next 100 hours time-in-service (TIS) after February 26, 2008 (the effective date of this AD) or within the next 3 months after February 26, 2008 (the effective date of this AD), whichever occurs first.	Check following GARMIN International, Inc. Service Bulletin No. 0713, Revision A, dated May 7, 2007; Service Bulletin No. 0713, Revision B, dated May 18, 2007; Service Bulletin No. 0713, Revision C, dated May 28, 2007; Service Bulletin No. 0713, Revision D, dated June 13, 2007; or Cessna Aircraft Company Single Engine Service Bulletin SB07-02-01, dated June 4, 2007, as applicable. If the Most Level of the P/Ns specified in paragraph (C)(1) and (C)(2) are at root level 1 and root level 2, as applicable, make an entry into the aircraft logbook attesting compliance with the portion of the AD in accordance with section 43.9 of the Federal Aviation Regulations (14 CFR 43.9). The owner/pilot holding at least a private pilot certificate as authorized by section 43.7 of the Federal Aviation Regulations (14 CFR 43.7) may do this action.
(2) If the serial tag on the installed GSM 85 servo gearbox unit for P/Ns 011-00984-00 or 011-00984-10 is marked at root level 3, no further action is required.		
(3) If the serial tag on the installed GSM 85 servo gearbox unit for P/Ns 011-00984-02, 011-00984-04, 011-00984-06, 011-00984-07, 011-00984-08, 011-00984-09, 011-00984-10, 011-00984-11, and 011-00984-14 is marked at root level 1, no further action is required.		
(4) If the serial tag on the above GSM 85 servo gearbox units is not at root level 1 or 3 as specified in paragraphs (C)(3) and (C)(4) of this AD, then go to paragraph (C)(5) of this AD.		
(5) If the serial tag on the GSM 85 servo gearbox for P/Ns specified in paragraph (C)(1) of this AD is not marked at root level 1 or root level 3 as specified in paragraphs (C)(3) and (C)(4) of this AD, inspect the servo gearbox for foreign object debris.	Within the next 100 hours TIS after February 26, 2008 (the effective date of this AD) or within the next 3 calendar months after February 26, 2008 (the effective date of this AD), whichever occurs first.	Follow the Modification Instructions in GARMIN International, Inc. Service Bulletin No. 0713, Revision A, dated May 7, 2007; Service Bulletin No. 0713, Revision B, dated May 18, 2007; Service Bulletin No. 0713, Revision C, dated May 28, 2007; Service Bulletin No. 0713, Revision D, dated June 13, 2007; or Cessna Aircraft Company Single Engine Service Bulletin SB07-02-01, dated June 4, 2007, as applicable.
(6) If foreign object debris is found during the inspection required in paragraph (C)(5) of this AD, remove and repair the GSM 85 servo gearbox to the manufacturer for replacement.	Follow the steps after the inspection required in paragraph (C)(5) of this AD.	Follow the Modification Instructions in GARMIN International, Inc. Service Bulletin No. 0713, Revision A, dated May 7, 2007; Service Bulletin No. 0713, Revision B, dated May 18, 2007; Service Bulletin No. 0713, Revision C, dated May 28, 2007; Service Bulletin No. 0713, Revision D, dated June 13, 2007; or Cessna Aircraft Company Single Engine Service Bulletin SB07-02-01, dated June 4, 2007, as applicable.

(Over)➔

Continuation of Airworthiness Directive 2008-02-06

Alternative Methods of Compliance (AMOCs)

(1) The Manager, Wichita Aircraft Certification Office (ACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Roger A. Stuller, Aerospace Engineer, FAA, Wichita ACO, 1801 Airport Road, Room 100, Wichita, Kansas 67209; telephone: (316) 946-6134; fax: (316) 946-6107; e-mail address: roger.a.stuller@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

Material Incorporated by Reference

(a) You must use GARMIN International, Inc. Service Bulletin No. 0713, Revision A, dated May 7, 2007; GARMIN International, Inc. Service Bulletin No. 0713, Revision B, dated May 18, 2007; GARMIN International, Inc. Service Bulletin No. 0713, Revision C, dated May 28, 2007; GARMIN International, Inc. Service Bulletin No. 0713, Revision D, dated June 13, 2007; and Cessna Aircraft Company

Single Engine Service Bulletin SB07-02-01, dated June 4, 2007, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) For service information identified in this AD, contact GARMIN International, Inc., 1200 East 151st Street, Olathe, KS 66062; telephone: (913) 397-8200; fax: (913) 397-8300.

(3) You may review copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/tables_of_federal_regulations/ (or, locate this information).

Issued in Kansas City, Missouri, on January 11, 2008.
John Colony, Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

adNote

2008-2-18 N

N172RN
REGISTRATION NO.

172S10776
REGISTRATION NO.

C6-172
TYPE AIRCRAFT

Ballistic Recovery Systems

COMPLIANCE DATE	TOTAL TIME AT COMPLIANCE	TOCHOR RECORDING METER TIME AT COMPLIANCE	METHOD OF COMPLIANCE	AUTHORIZED SIGNATURE & NUMBER
12-2-12	477.7	477.7	N/A not in equip	Kevin Rodden BFP 0375492 CA

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Amendment '8-15345, Docket No. FAA-2007-29117, Directorate Identifier 2007-CE-079-AD.

Effective Date
(b) This AD becomes effective on February 28, 2008.

Affected ADs

(b) None.

Applicability

(b) This AD applies to the following airplane models, all serial numbers, certificated in any category, that are equipped with:
 (1) BRS-172 Parachute System installed via Supplemental Type Certificate (STC) No. SA01679CA, or
 (2) BRS-182 Parachute System installed via STC No. SA01491 J1.

Cessna 172 Models	Cessna 182 Models
172	182B
172A	182C
172B	182D
172C	182E
172D	182F
172E	182G
172F	182H
172G	182J
172S	182K
172T	182L
172U	182M
172V	182N
172W	182P
172X	182Q
172Y	182R
172Z	182S
173A	182T
173B	182U
173C	182V
173D	182W
173E	182X
173F	182Y
173G	182Z
173H	183A
173I	183B
173J	183C
173K	183D
173L	183E
173M	183F
173N	183G
173P	183H
173Q	183I
173R	183J
173S	183K
173T	183L
173V	183M
173W	183N
173X	183P
173Y	183Q
173Z	183R
174A	183S
174B	183T
174C	183U
174D	183V
174E	183W
174F	183X
174G	183Y
174H	183Z
174J	184A
174K	184B
174L	184C
174M	184D
174N	184E
174P	184F
174Q	184G
174R	184H
174S	184J
174T	184K
174V	184L
174W	184M
174X	184N
174Y	184P
174Z	184Q
175A	184R
175B	184S
175C	184T
175D	184U
175E	184V
175F	184W
175G	184X
175H	184Y
175J	184Z
175K	185A
175L	185B
175M	185C
175N	185D
175P	185E
175Q	185F
175R	185G
175S	185H
175T	185J
175V	185K
175W	185L
175X	185M
175Y	185N
175Z	185P
176A	185Q
176B	185R
176C	185S
176D	185T
176E	185U
176F	185V
176G	185W
176H	185X
176J	185Y
176K	185Z
176L	186A
176M	186B
176N	186C
176P	186D
176Q	186E
176R	186F
176S	186G
176T	186H
176V	186J
176W	186K
176X	186L
176Y	186M
176Z	186N
177A	186P
177B	186Q
177C	186R
177D	186S
177E	186T
177F	186U
177G	186V
177H	186W
177J	186X
177K	186Y
177L	186Z
177M	187A
177N	187B
177P	187C
177Q	187D
177R	187E
177S	187F
177T	187G
177V	187H
177W	187J
177X	187K
177Y	187L
177Z	187M
178A	187N
178B	187P
178C	187Q
178D	187R
178E	187S
178F	187T
178G	187U
178H	187V
178J	187W
178K	187X
178L	187Y
178M	187Z
178N	188A
178P	188B
178Q	188C
178R	188D
178S	188E
178T	188F
178V	188G
178W	188H
178X	188J
178Y	188K
178Z	188L
179A	188M
179B	188N
179C	188P
179D	188Q
179E	188R
179F	188S
179G	188T
179H	188U
179J	188V
179K	188W
179L	188X
179M	188Y
179N	188Z
179P	189A
179Q	189B
179R	189C
179S	189D
179T	189E
179V	189F
179W	189G
179X	189H
179Y	189J
179Z	189K
180A	189L
180B	189M
180C	189N
180D	189P
180E	189Q
180F	189R
180G	189S
180H	189T
180J	189U
180K	189V
180L	189W
180M	189X
180N	189Y
180P	189Z
180Q	190A
180R	190B
180S	190C
180T	190D
180V	190E
180W	190F
180X	190G
180Y	190H
180Z	190J
181A	190K

Unsafe Condition

(b) This AD results from notification by Ballistic Recovery Systems, Inc. (BRS) that the pick-up collar assembly may prematurely move off the launch tube and adversely affect rocket trajectory during deployment. We

are issuing this AD to prevent premature separation of the collar. This condition could result in the parachute failing to successfully deploy.

Compliance

(b) To address this problem, you must do the following, unless already done:

Action	Compliance	Procedures
Remove and replace the pick-up collar support and two retaining screws.	Within the next 24 hours time-in-service after February 28, 2008 (the effective date of this AD).	(1) For Cessna 172 series airplanes follow BRS SS 07-01, dated June 8, 2007. (2) For Cessna 182 series airplanes, follow BRS SS 07-02, dated June 8, 2007.

Alternative Methods of Compliance (AMOCs)

(b) The Manager, Chicago Aircraft Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Gregory Michalski, Senior Aerospace Engineer, FAA, 2300 East Devon Avenue, Des Plaines, Illinois, 60018; telephone: (847) 294-7150; fax: (847) 294-7034; e-mail: gregory.michalski@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

Material Incorporated by Reference

(b) You must use Ballistic Recovery Systems, Inc. Service Bulletin No. 07-01, dated June 8, 2007, for Cessna 172 series airplanes, or Ballistic Recovery Systems, Inc. Service Bulletin No. 07-02, dated June 8, 2007, for Cessna 182 series airplanes, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 91.

(2) For service information identified in this AD, contact Ballistic Recovery Systems, Inc., 300 Airport Road, South Saint Paul, MN 55075-3551; telephone: (951) 457-7491; fax: (951) 457-8831.

(3) You may review copies of the FAA Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64103; or at the National Archives and Records Administration (NARA) for information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal registers/code of federal regulations/>

000506-1000
 Issued in Kansas City, Missouri, on January 16, 2008.
 James E. Jackson, Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

adNote
 AIRCRAFT REGISTRATION NO. 1723 AD 774
 AIRCRAFT SERIAL NO. CE-172
 TYPE AIRCRAFT
 2008-10-2 Nm1
 AD NUMBER

COMPLIANCE DATE	TOTAL TIME AT COMPLIANCE	TOTAL HOURS RECORDED SINCE TIME AT COMP. USED	METHOD OF COMPLIANCE	AUTHORIZED SIGNATURE & NUMBER
12-2-10	477.7	477.7	via visual check	Amigo Ramirez #P 8375679 JA

Amendment 39-15508; Docket No. FAA-2008-0471; Directorate Identifier 2008-CE-025-AD.
 Effective Date
 (a) This AD becomes effective on May 12, 2008.
 (b) None.
 Applicability
 (c) This AD applies to airplanes listed in Table 1 and Table 2 of this AD that:
 (1) Have a part number (P/N) 2013142-18 alternate static air source selector valve installed after November 19, 2007; and
 (2) Are certified in any category.

T1827	T1820422 and T1820428
206	2080417, 2080418, and 2080419
2080	20801284 through 20801315

Note 1: Airplanes listed in Table 1 may have also had the affected part installed as a replacement part.
Aircraft Note: Table 2 that was in this position in the Original FAA version of this Airworthiness Directive, has been moved to the bottom of page 2 to facilitate completion of this adNote.
 Note 2: P/N 2013142-18 replaced P/Ns 2013142-0, -13, and -17.
 Unsafe Condition
 (d) This AD is the result of reports of improper installation of the part number identification placard on the alternate static air source selector valve. We are issuing this AD to prevent erroneous information from the altimeter, airspeed, and vertical speed indicators, which could cause the pilot to react to incorrect flight information and possibly result in loss of control.

Compliance		
(e) For all affected airplanes, to address this problem, you must do the following, unless already done:		
Actions	Compliance	Procedures
(1) Inspect the alternate static air source selector valve to assure that the part number identification placard is not obstructing the port.	(i) For static air source selector valves installed before May 12, 2008 (the effective date of this AD), before further flight after May 12, 2008 (the effective date of this AD); and (ii) For static air source selector valves installed as modification or replacement parts on or after May 12, 2008 (the effective date of this AD): Before further flight after installation of a P/N 2013142-18 alternate static air source selector valve, inspection of the part before installation is acceptable.	(A) Adjust the pilot and copilot seats as far left as possible. (B) Use a flashlight and mirror to inspect the alternate static air source selector valve to assure the part on the forward end of the valve is clearly visible and not covered by the part number identification placard.
(2) If the alternate static air source selector valve port is found obstructed by the part number identification placard during any inspection required by paragraph (e)(1) of this AD, remove the placard from the valve body, discard the placard, and assure that the port is open and unobstructed.	Before further flight after any inspection required in paragraph (e)(1) of this AD where the port is found obstructed.	Make an entry in the aircraft records showing compliance with this portion of the AD following 14 CFR 43.9.

(f) Report the results of the inspection required by this AD where an obstruction was found to the FAA.
 (1) Submit this report within 10 days after the inspection or 10 days after the effective date of this AD, whichever occurs later.
 (2) Use the form in Figure 1 of this AD and submit it to FAA, Manufacturing Inspection District Office, Mid-Continent Airport, 1804 Airport Road, Room 101, Wichita, Kansas, 67209; or fax to (316) 948-4189.

(3) The Office of Management and Budget (OMB) approved the information collection requirements contained in this regulation under the provisions of the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) and assigned OMB Control Number 2120-0005.

(Over for page 2)

(Page 2 of Airworthiness Directive 2008-10-02)

AD 2008-10-02 INSPECTION REPORT
 (REPORT ONLY IF A PART NUMBER IDENTIFICATION PLACARD IS OBSTRUCTING THE STATIC AIR SOURCE SELECTOR VALVE PORT)

1. Inspection Performed By:	2. Phase:
3. Airplane Make:	4. Airplane Serial Number:
5. Airplane Total Hours TIS:	
6. Date of AD Inspection:	
7. Inspection Results: (Please Report only if a part number identification placard is obstructing static air source valve port.)	8. Corrective Action Taken:

Mail return to: Wichita Manufacturing Inspection District Office, Mid-Continent Airport, 1804 Airport Road, Room 101, Wichita, Kansas, 67209; or fax to (316) 948-4189.

Figure 1

Alternative Methods of Compliance (AMOCs)
 (g) The Manager, Wichita Aircraft Certification Office (ACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 1.89. Send information to: Attn: David Fairback, Aerospace Engineer, FAA, Wichita ACO, 1801 Airport Road, Room 100, Wichita, Kansas 67209; telephone: 316-948-4184; fax: 316-948-4107; e-mail address: david.fairback@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA, Flight Standards District Office (FSDO), or holding a PI, your local FSDO, issued in Kansas City, Missouri, on A 138, 2008.
 Kim Smith, Manager, Small Airplane Directorate, Aircraft Certification Service

Table 2—Applicability for Airplanes That Could Have Had the Affected Part Installed as a Replacement Part or From Parts Held as Spares

Model	Serial No. (S/N)	Model	Serial No. (S/N)
C-172	All S/Ns	F1821	1720001 through 1720021
C-172R	All S/Ns	F1822	All S/Ns
F1720	All S/Ns	F1823	All S/Ns
F1721	All S/Ns	208	All S/Ns
F1722	All S/Ns	206	All S/Ns
F1723	All S/Ns	2080	All S/Ns
F1724	All S/Ns	2081	All S/Ns
F1725	All S/Ns	2082	All S/Ns
F1726	All S/Ns	2083	All S/Ns
F1727	All S/Ns	2084	All S/Ns
F1728	All S/Ns	2085	All S/Ns
F1729	All S/Ns	2086	All S/Ns
F1730	All S/Ns	2087	All S/Ns
F1731	All S/Ns	2088	All S/Ns
F1732	All S/Ns	2089	All S/Ns
F1733	All S/Ns	2090	All S/Ns
F1734	All S/Ns	2091	All S/Ns
F1735	All S/Ns	2092	All S/Ns
F1736	All S/Ns	2093	All S/Ns
F1737	All S/Ns	2094	All S/Ns
F1738	All S/Ns	2095	All S/Ns
F1739	All S/Ns	2096	All S/Ns
F1740	All S/Ns	2097	All S/Ns
F1741	All S/Ns	2098	All S/Ns
F1742	All S/Ns	2099	All S/Ns
F1743	All S/Ns	2100	All S/Ns
F1744	All S/Ns	2101	All S/Ns
F1745	All S/Ns	2102	All S/Ns
F1746	All S/Ns	2103	All S/Ns
F1747	All S/Ns	2104	All S/Ns
F1748	All S/Ns	2105	All S/Ns
F1749	All S/Ns	2106	All S/Ns
F1750	All S/Ns	2107	All S/Ns
F1751	All S/Ns	2108	All S/Ns
F1752	All S/Ns	2109	All S/Ns
F1753	All S/Ns	2110	All S/Ns
F1754	All S/Ns	2111	All S/Ns
F1755	All S/Ns	2112	All S/Ns
F1756	All S/Ns	2113	All S/Ns
F1757	All S/Ns	2114	All S/Ns
F1758	All S/Ns	2115	All S/Ns
F1759	All S/Ns	2116	All S/Ns
F1760	All S/Ns	2117	All S/Ns
F1761	All S/Ns	2118	All S/Ns
F1762	All S/Ns	2119	All S/Ns
F1763	All S/Ns	2120	All S/Ns
F1764	All S/Ns	2121	All S/Ns
F1765	All S/Ns	2122	All S/Ns
F1766	All S/Ns	2123	All S/Ns
F1767	All S/Ns	2124	All S/Ns
F1768	All S/Ns	2125	All S/Ns
F1769	All S/Ns	2126	All S/Ns
F1770	All S/Ns	2127	All S/Ns
F1771	All S/Ns	2128	All S/Ns
F1772	All S/Ns	2129	All S/Ns
F1773	All S/Ns	2130	All S/Ns
F1774	All S/Ns	2131	All S/Ns
F1775	All S/Ns	2132	All S/Ns
F1776	All S/Ns	2133	All S/Ns
F1777	All S/Ns	2134	All S/Ns
F1778	All S/Ns	2135	All S/Ns
F1779	All S/Ns	2136	All S/Ns
F1780	All S/Ns	2137	All S/Ns
F1781	All S/Ns	2138	All S/Ns
F1782	All S/Ns	2139	All S/Ns
F1783	All S/Ns	2140	All S/Ns
F1784	All S/Ns	2141	All S/Ns
F1785	All S/Ns	2142	All S/Ns
F1786	All S/Ns	2143	All S/Ns
F1787	All S/Ns	2144	All S/Ns
F1788	All S/Ns	2145	All S/Ns
F1789	All S/Ns	2146	All S/Ns
F1790	All S/Ns	2147	All S/Ns
F1791	All S/Ns	2148	All S/Ns
F1792	All S/Ns	2149	All S/Ns
F1793	All S/Ns	2150	All S/Ns
F1794	All S/Ns	2151	All S/Ns
F1795	All S/Ns	2152	All S/Ns
F1796	All S/Ns	2153	All S/Ns
F1797	All S/Ns	2154	All S/Ns
F1798	All S/Ns	2155	All S/Ns
F1799	All S/Ns	2156	All S/Ns
F1800	All S/Ns	2157	All S/Ns
F1801	All S/Ns	2158	All S/Ns
F1802	All S/Ns	2159	All S/Ns
F1803	All S/Ns	2160	All S/Ns
F1804	All S/Ns	2161	All S/Ns
F1805	All S/Ns	2162	All S/Ns
F1806	All S/Ns	2163	All S/Ns
F1807	All S/Ns	2164	All S/Ns
F1808	All S/Ns	2165	All S/Ns
F1809	All S/Ns	2166	All S/Ns
F1810	All S/Ns	2167	All S/Ns
F1811	All S/Ns	2168	All S/Ns
F1812	All S/Ns	2169	All S/Ns
F1813	All S/Ns	2170	All S/Ns
F1814	All S/Ns	2171	All S/Ns
F1815	All S/Ns	2172	All S/Ns
F1816	All S/Ns	2173	All S/Ns
F1817	All S/Ns	2174	All S/Ns
F1818	All S/Ns	2175	All S/Ns
F1819	All S/Ns	2176	All S/Ns
F1820	All S/Ns	2177	All S/Ns
F1821	All S/Ns	2178	All S/Ns
F1822	All S/Ns	2179	All S/Ns
F1823	All S/Ns	2180	All S/Ns
F1824	All S/Ns	2181	All S/Ns
F1825	All S/Ns	2182	All S/Ns
F1826	All S/Ns	2183	All S/Ns
F1827	All S/Ns	2184	All S/Ns
F1828	All S/Ns	2185	All S/Ns
F1829	All S/Ns	2186	All S/Ns
F1830	All S/Ns	2187	All S/Ns
F1831	All S/Ns	2188	All S/Ns
F1832	All S/Ns	2189	All S/Ns
F1833	All S/Ns	2190	All S/Ns
F1834	All S/Ns	2191	All S/Ns
F1835	All S/Ns	2192	All S/Ns
F1836	All S/Ns	2193	All S/Ns
F1837	All S/Ns	2194	All S/Ns
F1838	All S/Ns	2195	All S/Ns
F1839	All S/Ns	2196	All S/Ns
F1840	All S/Ns	2197	All S/Ns
F1841	All S/Ns	2198	All S/Ns
F1842	All S/Ns	2199	All S/Ns
F1843	All S/Ns	2200	All S/Ns
F1844	All S/Ns	2201	All S/Ns
F1845	All S/Ns	2202	All S/Ns
F1846	All S/Ns	2203	All S/Ns
F1847	All S/Ns	2204	All S/Ns
F1848	All S/Ns	2205	All S/Ns
F1849	All S/Ns	2206	All S/Ns
F1850	All S/Ns	2207	All S/Ns
F1851	All S/Ns	2208	All S/Ns
F1852	All S/Ns	2209	All S/Ns
F1853	All S/Ns	2210	All S/Ns
F1854	All S/Ns	2211	All S/Ns
F1855	All S/Ns	2212	All S/Ns
F1856	All S/Ns	2213	All S/Ns
F1857	All S/Ns	2214	All S/Ns
F1858	All S/Ns	2215	All S/Ns
F1859	All S/Ns	2216	All S/Ns
F1860	All S/Ns	2217	All S/Ns
F1861	All S/Ns	2218	All S/Ns
F1862	All S/Ns	2219	All S/Ns
F1863	All S/Ns	2220	All S/Ns
F1864	All S/Ns	2221	All S/Ns
F1865	All S/Ns	2222	All S/Ns
F1866	All S/Ns	2223	All S/Ns
F1867	All S/Ns	2224	All S/Ns
F1868	All S/Ns	2225	All S/Ns
F1869	All S/Ns	2226	All S/Ns
F1870	All S/Ns	2227	All S/Ns
F1871	All S/Ns	2228	All S/Ns
F1872	All S/Ns	2229	All S/Ns
F1873	All S/Ns	2230	All S/Ns
F1874	All S/Ns	2231	All S/Ns
F1875	All S/Ns	2232	All S/Ns
F1876	All S/Ns	2233	All S/Ns
F1877	All S/Ns	2234	All S/Ns
F1878	All S/Ns	2235	All S/Ns
F1879	All S/Ns	2236	All S/Ns
F1880	All S/Ns	2237	All S/Ns
F1881	All S/Ns	2238	All S/Ns
F1882	All S/Ns	2239	All S/Ns
F1883	All S/Ns	2240	All S/Ns
F1884	All S/Ns	2241	All S/Ns
F1885	All S/Ns	2242	All S/Ns
F1886	All S/Ns	2243	All S/Ns
F1887	All S/Ns	2244	All S/Ns
F1888	All S/Ns	2245	All S/Ns
F1889	All S/Ns	2246	All S/Ns
F1890	All S/Ns	2247	All S/Ns
F1891	All S/Ns	2248	All S/Ns
F1892	All S/Ns	2249	All S/Ns
F1893	All S/Ns	2250	All S/Ns
F1894	All S/Ns	2251	All S/Ns
F1895	All S/Ns	2252	All S/Ns
F1896	All S/Ns	2253	All S/Ns
F1897	All S/Ns	2254	All S/Ns
F1898	All S/Ns	2255	All S/Ns
F1899	All S/Ns	2256	All S/Ns
F1900	All S/Ns	2257	All S/Ns
F1901	All S/Ns	2258	All S/Ns
F1902	All S/Ns	2259	All S/Ns
F1903	All S/Ns	2260	All S/Ns
F1904	All S/Ns	2261	All S/Ns
F1905	All S/Ns	2262	All S/Ns
F1906	All S/Ns	2263	All S/Ns
F1907	All S/Ns	2264	All S/Ns
F1908	All S/Ns	2265	All S/Ns
F1909	All S/Ns	2266	All S/Ns
F1910	All S/Ns	2267	All S/Ns
F1911	All S/Ns	2268	All S/Ns
F1912	All S/Ns	2269	All S/Ns
F1913	All S/Ns	2270	All S/Ns
F1914	All S/Ns	2271	All S/Ns
F1915	All S/Ns	2272	All S/Ns
F1916	All S/Ns	2273	All S/Ns
F1917	All S/Ns	2274	All S/Ns
F1918	All S/Ns	2275	All S/Ns
F1919	All S/Ns	2276	All S/Ns
F1920	All S/Ns	2277	All S/Ns
F1921	All S/Ns	2278	All S/Ns
F1922	All S/Ns	2279	All S/Ns
F1923	All S/Ns	2280	All S/Ns
F1924	All S/Ns	2281	All S/Ns
F1925	All S/Ns	2282	All S/Ns
F1926	All S/Ns	2283	All S/Ns
F1927	All S/Ns	2284	All S/Ns
F1928	All S/Ns	2285	All S/Ns
F1929	All S/Ns	2286	All S/Ns
F1930	All S/Ns	2287	All S/Ns
F1931	All S/Ns	2288	All S/Ns
F1932	All S/Ns	2289	All S/Ns
F1933	All S/Ns	2290	All S/Ns

1172RN
adNote
2008-26-10 N/M

172S10776
AD NUMBER

C6-172
AD NUMBER

Alternate Static Source Valve

COMPLIANCE DATE	TOTAL TIME AT COMPLIANCE	TICOM RECORDING METERS TIME AT COMPLIANCE	METHOD OF COMPLIANCE	AUTHORIZED SIGNATURE & NUMBER
12-3-10	477.7	477.7	check by visual inspection during overhaul AD 327564220	

Amendment 39-10776, DocId: 39-10776-1028, Directorate Identifier: 2008-26-10-10776-1028

Effective Date: This AD becomes effective on January 5, 2009.

Affected ADs: (1) This AD relates to AD 39-10776, Amendment 39-10287 and AD 2008-10-10. Amendment 39-10287. These ADs can be found on the internet at the following Web site: www.faa.gov.

Applicability: (1) This AD applies to all serial numbers (S/Ns) of the airplanes listed in Table 1 of this AD, categorized in any category that:

(1) Was initially delivered from the manufacturer between January 1, 1980, and March 31, 2008, unless the requirements required in AD 2008-10-10 have been done and you remain in compliance with that AD; or

(2) Have a part number (P/N) 2013142-9 installed as a replacement part anytime after January 1, 1980, unless the modification/repair required in AD 2008-10-10 has been done and you remain in compliance with that AD.

Note 1: The affected part was shipped from Casero Parts Distribution (CPD) between January 1, 1980, and March 31, 2008.

Note 2: P/N 2013142-10 replaced P/Ns 2013142-9, -13, and -17.

Administrative Note: Table 1 has been moved from this location in the Original FAA version of this Airworthiness Directive to page 3, to facilitate consultation of this notice.

Unairly Condition: (1) This AD is the result of reports of improper installation of the part number identification placard on the alternate static air source selector valve. We are issuing this AD to prevent erroneous indications from the alternate selector and vertical speed indicators, which could cause the pilot to need to increase engine RPM and possibly result in loss of control.

Compliance: (1) To address the problem, you must do the following, unless already done: a person authorized to perform maintenance as specified in 14 CFR section 43.3 of the Federal Aviation Administration Regulations (14 CFR 43) is required to do all the actions required in this AD.

Action	Compliance	Procedures
(1) For all affected airplanes, install an alternate static air source selector valve (ASV) that meets the alternate static air source selector valve placard in not obstructing the port.	Within the next 100 hours time-in-service (TIS) after January 5, 2009 (the effective date of this AD) or within the next 4 hours after January 5, 2009 (the effective date of this AD), whichever occurs first.	Following the procedures in General Single Engine Service Bulletin (S/N: 14-02, Revision 1, dated October 6, 2008, Casero Service Bulletin CASB-08-1, dated October 6, 2008, Casero Single Engine Service Bulletin SESB-08-1, dated October 11, 2008, or Casero Multi-engine Service Bulletin MESB-08-1, dated October 11, 2008, as applicable.
(2) For all affected airplanes, install an alternate static air source selector valve (ASV) that meets the alternate static air source selector valve placard in not obstructing the port, or (3) Remove a placard that incorporates the following wording (using the alternate static air source selector valve placard in not obstructing the port): "FAA AD 2008-10-10, 10776-10287, and 10776-10288. The placard is not to be used on this aircraft." (14 CFR 43.3 of the Federal Aviation Administration Regulations (14 CFR 43) is required to do all the actions required in this AD).	(A) Insure within the next 10 days after January 5, 2009 (the effective date of this AD); or (B) Insure placard before further flight after January 5, 2009 (the effective date of this AD).	Following the procedures in General Single Engine Service Bulletin (S/N: 14-02, Revision 1, dated October 6, 2008, Casero Service Bulletin CASB-08-1, dated October 6, 2008, Casero Single Engine Service Bulletin SESB-08-1, dated October 11, 2008, or Casero Multi-engine Service Bulletin MESB-08-1, dated October 11, 2008, as applicable.
(4) For all affected airplanes, install an alternate static air source selector valve (ASV) that meets the alternate static air source selector valve placard in not obstructing the port, or (5) Remove a placard that incorporates the following wording (using the alternate static air source selector valve placard in not obstructing the port): "FAA AD 2008-10-10, 10776-10287, and 10776-10288. The placard is not to be used on this aircraft." (14 CFR 43.3 of the Federal Aviation Administration Regulations (14 CFR 43) is required to do all the actions required in this AD).	Within the next 100 hours TIS after January 5, 2009 (the effective date of this AD) or within the next 4 hours after January 5, 2009 (the effective date of this AD), whichever occurs first, or (B) Insure placard before further flight in accordance with paragraph (b)(2)(C) of this AD before further flight.	Following the procedures in General Single Engine Service Bulletin (S/N: 14-02, Revision 1, dated October 6, 2008, Casero Service Bulletin CASB-08-1, dated October 6, 2008, Casero Single Engine Service Bulletin SESB-08-1, dated October 11, 2008, or Casero Multi-engine Service Bulletin MESB-08-1, dated October 11, 2008, as applicable.
(6) For all affected airplanes, if the alternate static air source selector valve (ASV) does not meet the alternate static air source selector valve placard in not obstructing the port, or (7) Remove a placard that incorporates the following wording (using the alternate static air source selector valve placard in not obstructing the port): "FAA AD 2008-10-10, 10776-10287, and 10776-10288. The placard is not to be used on this aircraft." (14 CFR 43.3 of the Federal Aviation Administration Regulations (14 CFR 43) is required to do all the actions required in this AD).	Before further flight after the inspection required in paragraph (b)(1), (b)(2)(C), and (b)(3) of this AD.	Following the procedures in General Single Engine Service Bulletin (S/N: 14-02, Revision 1, dated October 6, 2008, Casero Service Bulletin CASB-08-1, dated October 6, 2008, Casero Single Engine Service Bulletin SESB-08-1, dated October 11, 2008, or Casero Multi-engine Service Bulletin MESB-08-1, dated October 11, 2008, as applicable.
(8) For all affected airplanes, when a replacement valve is installed, the report in Figure 1 of this AD, which contains the placard information that has been inspected and the part is listed below the placard.	As of 10 days after January 5, 2009 (the effective date of this AD).	A person authorized to perform maintenance as specified in 14 CFR section 43.3 of the Federal Aviation Administration Regulations (14 CFR 43) is required to do the inspection.

(Over)➔

(Page 2 of Airworthiness Directive 2008-26-10)

(8) Report to the FAA the results of the inspection required by this AD when an action is taken.

(9) Submit the report within 10 days after the inspection or 10 days after the effective date of this AD, whichever occurs later.

(10) Use the form in Figure 1 of this AD and submit it to: FAA, Manufacturing Inspection District Office, Mid-Continent Airport, 1804 Airport Road, Room 101, Wichita, Kansas 67209; or fax to (316) 946-4189.

(1) The Office of Management and Budget (OMB) approved the information collection requirements contained in this regulation under the provisions of the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) and assigned OMB Control Number 2120-0066.

AD 2008-26-10 INSPECTION REPORT
(REPORT ONLY IF A PART NUMBER IDENTIFICATION PLACARD IS OBSTRUCTING THE STATIC AIR SOURCE SELECTOR VALVE PORT)

1. Inspection Performed By:	2. Phase:
3. Airplane Model:	4. Airplane Serial Number:
5. Airplane Total Hours TIS:	
6. Date of AD inspection:	
7. Inspection Results: (Note: Report only if a part number identification placard is obstructing static air source selector port.)	8. Corrective Action Taken:

Mail report to Wichita Manufacturing Inspection District Office, Mid-Continent Airport, 1804 Airport Road, Room 101, Wichita, Kansas, 67209; or fax to (316) 946-4189

Figure 1

Alternative Methods of Compliance (AMOCs)

(1) The Manager, Wichita Aircraft Certification Office (WACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Airframe, Aerospace Engineer, FAA, Wichita ACO, 1801 Airport Road, Room 101, Wichita, Kansas 67209; telephone: 316-946-4189, fax: 316-946-4189, email: airframe@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify the responsible inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) AMOCs approved for AD 2008-10-10 are approved by the AD.

Material Incorporated by Reference

(1) You must use Casero Single Engine Service Bulletin, SESB-08-02, Revision 1, dated October 6, 2008; Casero Single Engine Service Bulletin CASB-08-1, dated October 6, 2008; Casero Single Engine Service Bulletin SESB-08-04, dated October 13, 2008; and Casero Multi-engine Service Bulletin, MESB-08-04, dated October 13, 2008, to do the actions required by this AD, unless the AD specifies otherwise.

(2) The Director of the Federal Register approved the incorporation by reference of this service information under 14 CFR 39.101 and 14 CFR part 61. For service information identified in this AD, contact Casero Aircraft Company, P.O. Box 7704, Wichita, Kansas 67207; telephone: 316-942-7162 or (316) 517-4299; internet: <http://www.casero.com>.

(3) You may review copies of the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64108; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/editions/details.cfm?edid=2008-10-10>. Issued in Kansas City, Missouri on December 15, 2008.

Tom Greig, Manager, Small Airplane Directorate, Aircraft Certification Service

Table 1--Applicable Airplane Models

		Models
173	1730A	173
173A	1730B	173A
173B	1730C	173B
173C	1730D	173C
173D	1730E	173D
173E	1730F	173E
173F	1730G	173F
173G	1730H	173G
173H	1730I	173H
173I	1730J	173I
173J	1730K	173J
173K	1730L	173K
173L	1730M	173L
173M	1730N	173M
173N	1730O	173N
173O	1730P	173O
173P	1730Q	173P
173Q	1730R	173Q
173R	1730S	173R
173S	1730T	173S
173T	1730U	173T
173U	1730V	173U
173V	1730W	173V
173W	1730X	173W
173X	1730Y	173X
173Y	1730Z	173Y
173Z	1730AA	173Z
173AA	1730AB	173AA
173AB	1730AC	173AB
173AC	1730AD	173AC
173AD	1730AE	173AD
173AE	1730AF	173AE
173AF	1730AG	173AF
173AG	1730AH	173AG
173AH	1730AI	173AH
173AI	1730AJ	173AI
173AJ	1730AK	173AJ
173AK	1730AL	173AK
173AL	1730AM	173AL
173AM	1730AN	173AM
173AN	1730AO	173AN
173AO	1730AP	173AO
173AP	1730AQ	173AP
173AQ	1730AR	173AQ
173AR	1730AS	173AR
173AS	1730AT	173AS
173AT	1730AU	173AT
173AU	1730AV	173AU
173AV	1730AW	173AV
173AW	1730AX	173AW
173AX	1730AY	173AX
173AY	1730AZ	173AY
173AZ	1730BA	173AZ
173BA	1730BB	173BA
173BB	1730BC	173BB
173BC	1730BD	173BC
173BD	1730BE	173BD
173BE	1730BF	173BE
173BF	1730BG	173BF
173BG	1730BH	173BG
173BH	1730BI	173BH
173BI	1730BJ	173BI
173BJ	1730BK	173BJ
173BK	1730BL	173BK
173BL	1730BM	173BL
173BM	1730BN	173BM
173BN	1730BO	173BN
173BO	1730BP	173BO
173BP	1730BQ	173BP
173BQ	1730BR	173BQ
173BR	1730BS	173BR
173BS	1730BT	173BS
173BT	1730BU	173BT
173BU	1730BV	173BU
173BV	1730BW	173BV
173BW	1730BX	173BW
173BX	1730BY	173BX
173BY	1730BZ	173BY
173BZ	1730CA	173BZ
173CA	1730CB	173CA
173CB	1730CC	173CB
173CC	1730CD	173CC
173CD	1730CE	173CD
173CE	1730CF	173CE
173CF	1730CG	173CF
173CG	1730CH	173CG
173CH	1730CI	173CH
173CI	1730CJ	173CI
173CJ	1730CK	173CJ
173CK	1730CL	173CK
173CL	1730CM	173CL
173CM	1730CN	173CM
173CN	1730CO	173CN
173CO	1730CP	173CO
173CP	1730CQ	173CP
173CQ	1730CR	173CQ
173CR	1730CS	173CR
173CS	1730CT	173CS
173CT	1730CU	173CT
173CU	1730CV	173CU
173CV	1730CW	173CV
173CW	1730CX	173CW
173CX	1730CY	173CX
173CY	1730CZ	173CY
173CZ	1730DA	173CZ
173DA	1730DB	173DA
173DB	1730DC	173DB
173DC	1730DD	173DC
173DD	1730DE	173DD
173DE	1730DF	173DE
173DF	1730DG	173DF
173DG	1730DH	173DG
173DH	1730DI	173DH
173DI	1730DJ	173DI
173DJ	1730DK	173DJ
173DK	1730DL	173DK
173DL	1730DM	173DL
173DM	1730DN	173DM
173DN	1730DO	173DN
173DO	1730DP	173DO
173DP	1730DQ	173DP
173DQ	1730DR	173DQ
173DR	1730DS	173DR
173DS	1730DT	173DS
173DT	1730DU	173DT
173DU	1730DV	173DU
173DV	1730DW	173DV
173DW	1730DX	173DW
173DX	1730DY	173DX
173DY	1730DZ	173DY
173DZ	1730EA	173DZ
173EA	1730EB	173EA
173EB	1730EC	173EB
173EC	1730ED	173EC
173ED	1730EE	173ED
173EE	1730EF	173EE
173EF	1730EG	173EF
173EG	1730EH	173EG
173EH	1730EI	173EH
173EI	1730EJ	173EI
173EJ	1730EK	173EJ
173EK	1730EL	173EK
173EL	1730EM	173EL
173EM	1730EN	173EM
173EN	1730EO	173EN
173EO	1730EP	173EO
173EP	1730EQ	173EP
173EQ	1730ER	173EQ
173ER	1730ES	173ER
173ES	1730ET	173ES
173ET	1730EU	173ET
173EU	1730EV	173EU
173EV	1730EW	173EV
173EW	1730EX	173EW
173EX	1730EY	173EX
173EY	1730EZ	173EY
173EZ	1730FA	173EZ
173FA	1730FB	173FA
173FB	1730FC	173FB
173FC	1730FD	173FC
173FD	1730FE	173FD
173FE	1730FF	173FE
173FF	1730FG	173FF
173FG	1730FH	173FG
173FH	1730FI	173FH
173FI	1730FJ	173FI
173FJ	1730FK	173FJ
173FK	1730FL	173FK
173FL	1730FM	173FL
173FM	1730FN	173FM
173FN	1730FO	173FN
173FO	1730FP	173FO
173FP	1730FQ	173FP
173FQ	1730FR	173FQ
173FR	1730FS	173FR
173FS	1730FT	173FS
173FT	1730FU	173FT
173FU	1730FV	173FU
173FV	1730FW	173FV
173FW	1730FX	173FW
173FX	1730FY	173FX
173FY	1730FZ	173FY
173FZ	1730GA	173FZ
173GA	1730GB	173GA
173GB	1730GC	173GB
173GC	1730GD	173GC
173GD	1730GE	173GD
173GE	1730GF	173GE
173GF	1730GG	173GF
173GG	1730GH	173GG
173GH	1730GI	173GH
173GI	1730GJ	173GI
173GJ	1730GK	173GJ
173GK	1730GL	173GK
173GL	1730GM	173GL
173GM	1730GN	173GM
173GN	1730GO	173GN
173GO	1730GP	173GO
173GP	1730GQ	173GP
173GQ	1730GR	173GQ
173GR	1730GS	173GR
173GS	1730GT	173GS
173GT	1730GU	173GT
173GU	1730GV	173GU
173GV	1730GW	173GV
173GW	1730GX	173GW
173GX	1730GY	173GX
173GY	1730GZ	173GY
173GZ	1730HA	173GZ
173HA	1730HB	173HA
173HB	1730HC	173HB
173HC	1730HD	173HC
173HD	1730HE	173HD
173HE	1730HF	173HE
173HF	1730HG	173HF
173HG	1730HH	173HG
173HH	1730HI	173HH
173HI	1730HJ	173HI
173HJ	1730HK	173HJ
173HK	1730HL	173HK
173HL	1730HM	173HL
173HM	1730HN	173HM
173HN	1730HO	173HN
173HO	1730HP	173HO
173HP	1730HQ	173HP
173HQ	1730HR	173HQ
173HR	1730HS	173HR
173HS	1730HT	173HS
173HT	1730HU	173HT
173HU	1730HV	173HU
173HV	1730HW	173HV
173HW	1730HX	173HW
173HX	1730HY	173HX
173HY	1730HZ	173HY
173HZ	1730IA	173HZ
173IA	1730IB	173IA
173IB	1730IC	173IB
173IC	1730ID	173IC
173ID	1730IE	173ID
173IE	1730IF	173IE
173IF	1730IG	173IF
173IG	1730IH	173IG
173IH	1730II	173IH
173II	1730IJ	173II
173IJ	1730IK	173IJ
173IK	1730IL	173IK
173IL	1730IM	173IL
173IM	1730IN	173IM
173IN	1730IO	173IN
173IO	1730IP	173IO
173IP	1730IQ	173IP
173IQ	1730IR	173IQ
173IR	1730IS	173IR
173IS	1730IT	173IS
173IT	1730IU	173IT
173IU	1730IV	173IU
173IV	1730IW	173IV
173IW	1730IX	173IW
173IX	1730IY	173IX
173IY	1730IZ	173IY
173IZ	1730JA	173IZ
173JA	1730JB	173JA
173JB	1730JC	173JB
173JC	1730JD	173JC
173JD	1730JE	173JD
173JE	1730JF	173JE
173JF	1730JG	173JF
173JG	1730JH	173JG
173JH	1730JI	173JH
173JI	1730JJ	173JI
173JJ	1730JK	173JJ
173JK	1730JL	173JK
173JL	1730JM	173JL
173JM	1730JN	173JM
173JN	1730JO	173JN
173JO	1730JP	173JO
173JP	1730JQ	173JP
173JQ	1730JR	173JQ
173JR	1730JS	173JR
173JS	1730JT	173JS
173JT	1730JU	173JT
173JU	1730JV	173JU
173JV	1730JW	173JV
173JW	1730JX	173JW
173JX	1730JY	173JX
173JY	1730JZ	173JY
173JZ	1730KA	173JZ
173KA	1730KB	173KA
173KB	1730KC	173KB
173KC	1730KD	173KC
173KD	1730KE	173KD
173KE	1730KF	173KE
173KF	1730KG	173KF
173KG	1730KH	173KG
173KH	1730KI	173KH
173KI	1730KJ	173KI
173KJ	1730KK	173KJ
173KK	1730KL	173KK
173KL	1730KM	173KL
173KM	1730KN	173KM
173KN	1730KO	173KN
173KO	1730KP	173KO
173KP	1730KQ	173KP
173KQ	1730KR	173KQ
173KR	1730KS	173KR
173KS	1730KT	173KS
173KT	1730KU	173KT
173KU	1730KV	173KU
173KV	1730KW	173KV
173KW	1730KX	173KW
173KX	1730KY	173KX
173KY	1730KZ	173KY
173KZ	1730LA	173KZ
173LA	1730LB	173LA
173LB	1730LC	173LB
173LC	1730LD	173LC
173LD	1730LE	173LD
173LE	1730LF	173LE
173LF	1730LG	173LF
173LG	1730LH	173LG
173LH	1730LI	173LH
173LI	1730LJ	173LI
173LJ	1730LK	173LJ
173LK	1730LL	173LK
173LL	1730LM	173LL
173LM	1730LN	173LM
173LN	1730LO	173LN
173LO	1730LP	173LO
173LP	1730LQ	173LP
173LQ	1730LR	173LQ
173LR	1730LS	173LR
173LS	1730LT	173LS
173LT	1730LU	173LT
173LU	1730LV	173LU
173LV	1730LW	173LV
173LW	1730LX	173LW
173LX	1730LY	173LX
173LY	1730LZ	173LY
173LZ	1730MA	173LZ
173MA	1730MB	173MA
173MB	1730MC	173MB
173MC	1730MD	173MC
173MD	1730ME	173MD
173ME	1730MF	173ME
173MF	1730MG	173MF
173MG	1730MH	173MG
173MH	1730MI	173MH
173MI	1730MJ	173MI
173MJ	1730MK	173MJ
173MK	1730ML	173MK
173ML	1730MN	173ML
173MN	1730MO	173MN
173MO	1730MP	173MO
173MP	1730MQ	173MP
173MQ	1730MR	173MQ
173MR	1730MS	173MR
173MS	1730MT	173MS
173MT	1730MU	173MT
173MU	1730MV	173MU
173MV	1730MW	173MV
173MW	1730MX	173MW
173MX	1730MY	173MX
173MY	1730MZ	173MY
173MZ	1730NA	173MZ
173NA	1730NB	173NA
173NB	1730NC	173NB
173NC	1730ND	

N17224
AIRFRAME REGISTRATION NO.
adNote
2008-26-10 corr. NM
AD NUMBER

172346776
CURRENT SERIAL NO.
Alternate Static Source Valve

C6172
TYPE AIRCRAFT

COMPLIANCE DATE	TOTAL TIME AT COMPLIANCE	TECHNICIAN INCURRED AFTER THE AD COMPLIANCE	METHOD OF COMPLIANCE	AUTHORIZED SIGNATURE & NUMBER

Amendment 36-12776, Order No. FAA-2008-1328, Directorate Identifier 2008-CO-069-AD
Effective Date: (6) This AD becomes effective on January 5, 2009.
Affected ADs: (8) This AD relates to AD 98-01-01, Amendment 36-1028¹ and AD 2008-10-22, Amendment 36-1503. These ADs can be found on the internet at the following URL: www.faa.gov.
(9) This AD applies to all serial numbers (SNs) of the airplanes listed in Table 1 of this AD, regardless of any warranty.
(10) Those initially delivered from the manufacturer between January 1, 1993, and March 31, 2008, unless the instructions required in AD 2008-10-22 have been done and you remain in compliance with that AD; or
(11) when a part number (PN) is replaced as a replacement part on/after January 1, 1993, unless the instructions required in AD 2008-10-22 have been done and you remain in compliance with that AD.
Note 1: The affected part was shipped from Casera Parts Distribution (CPD) between January 1, 1993, and March 31, 2008.
Note 2: P/N 201742; 18 related P/Ns 201742.A, .B, .C, and .D.
Aerobtech Note: Table 1 has been moved from this location in the Original FAA version of this Airworthiness Directive to page 9 to facilitate completion of this table.
(12) This AD is the result of reports of improper installation of the part number identification (ID) on the alternate static air source selector valve. This is causing this AD to prevent erroneous indications from the altimeter, airspeed, and vertical speed indicators, which could cause the pilot to need to increase flight information and possibly result in loss of control.
(13) To address this problem, you must do the following, unless already done. A person authorized to perform maintenance as specified in 14 CFR section 43.3 of the Federal Aviation Administration Regulations (14 CFR 43.3) is required to do the actions required in this AD.

Actions	Compliance	Procedures
(1) For all affected airplanes that are not equipped for flight data recording (FDR) (12) inspect the alternate static air source selector valve to ensure that the part number identification placard is not obstructing the port.	Within the next 100 hours time-in-service (TIS) after January 5, 2009 (the effective date of this AD) or within the next 4 months after January 5, 2009 (the effective date of this AD), whichever occurs first.	Following the procedures in Casera Single Engine Service Bulletin SE08-34-02, Revision 1, dated October 6, 2008; Casera Cessna Service Bulletin CAB08-4, Revision 1, dated October 6, 2008; Casera Single Engine Service Bulletin SE08-6, dated October 13, 2008; or Casera Multi-engine Service Bulletin ME08-6, dated October 13, 2008, as applicable.
(2) For all affected airplanes that are equipped for flight data recording (FDR) (12) inspect the alternate static air source selector valve to ensure that the part number identification placard is not obstructing the port.	(A) Inspect within the next 10 days after January 5, 2009 (the effective date of this AD); or (B) Inspect placard before further flight after January 5, 2009 (the effective date of this AD).	Following the procedures in Casera Single Engine Service Bulletin SE08-34-02, Revision 1, dated October 6, 2008; Casera Cessna Service Bulletin CAB08-4, Revision 1, dated October 6, 2008; Casera Single Engine Service Bulletin SE08-6, dated October 13, 2008; or Casera Multi-engine Service Bulletin ME08-6, dated October 13, 2008, as applicable.
(3) If placard is placed and it impairs the following words (using at least 18 inch letters and meet the placard as the minimum must include pilot's call view "THE OPERATOR IS RESPONSIBLE FOR USE OF THE ALTERNATE STATIC AIR SOURCE SELECTOR"): (12)	Within the next 100 hours TIS after January 5, 2009 (the effective date of this AD) or within the next 4 months after January 5, 2009 (the effective date of this AD), whichever occurs first. After doing the inspection, remove the placard in accordance with paragraph (12)(2) of this AD before further flight.	Following the procedures in Casera Single Engine Service Bulletin SE08-34-02, Revision 1, dated October 6, 2008; Casera Cessna Service Bulletin CAB08-4, Revision 1, dated October 6, 2008; Casera Single Engine Service Bulletin SE08-6, dated October 13, 2008; or Casera Multi-engine Service Bulletin ME08-6, dated October 13, 2008, as applicable.
(4) For all affected airplanes: If the alternate static air source selector valve ports are found obstructed by the part number identification placard during the inspection in paragraph (12)(1), (12)(2), and (12)(3) of this AD, remove the placard from the valve body, discard the placard, and ensure that the port is open and unobstructed.	Before further flight after the inspection required in paragraphs (12)(1), (12)(2), and (12)(3) of this AD.	Following the procedures in Casera Single Engine Service Bulletin SE08-34-02, Revision 1, dated October 6, 2008; Casera Cessna Service Bulletin CAB08-4, Revision 1, dated October 6, 2008; Casera Single Engine Service Bulletin SE08-6, dated October 13, 2008; or Casera Multi-engine Service Bulletin ME08-6, dated October 13, 2008, as applicable.
(5) For all affected airplanes: When a replacement valve is needed, only install a P/N 201742-18 alternate static air source selector valve that has been inspected and the port is found to be free obstruction.	As of 10 days after January 5, 2009 (the effective date of this AD).	A person authorized to perform maintenance as specified in 14 CFR section 43.3 of the Federal Aviation Administration Regulations (14 CFR 43.3) is required to do the inspection.

(Page 2 of Airworthiness Directive 2008-26-10 Corr.)

(1) Report to the FAA the results of the inspection required by this AD when an obstruction was found.
(2) Submit this report within 10 days after the inspection or 10 days after the effective date of this AD, whichever occurs later.
(3) Use the form in Figure 1 of the AD and submit it to FAA, Manufacturing Inspection District Office, Mid-Continent Region, 1801 Airport Road, Room 101, Wichita, Kansas 67209, or fax to (316) 946-4199.
(4) The Office of Management and Budget (OMB) approved the information collection requirements contained in the regulation under the provisions of the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) and assigned OMB Control Number 2700-0096.

AD 2008-26-10 INSPECTION REPORT
(REPORT ONLY IF A PART NUMBER IDENTIFICATION PLACARD IS OBSTRUCTING THE STATIC AIR SOURCE SELECTOR VALVE PORT)

1. Inspection Performed By:	2. Phone:
3. Airplane Model:	4. Airplane Serial Number:
5. Airplane Total Hours TIS:	
6. Date of AD Inspection:	
7. Inspection Results: (Note: Report only if a part number identification placard is obstructing static air source valve port.)	8. Corrective Action Taken:

Mail report to: Wichita Manufacturing Inspection District Office, Mid-Continent Airport, 1801 Airport Road, Room 101, Wichita, Kansas, 67209; or fax to (316) 946-4189

Aerobtech Note: Above address changed from 1804 to 1801.

Alternative Methods of Compliance (AMOCs)
(1) The Manager, Wichita Aircraft Certification Office (WACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 25.19. Send information to ATTN: Area Engineer, Aerospace Engineer, FAA, Wichita ACO, 1801 Airport Road, Room 101, Wichita, Kansas 67209; telephone - (316) 946-4199; fax - (316) 946-4199; email - faa_pis@wichita.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.
(2) AMOCs approved for AD 2008-10-22 are approved for this AD.
Material Incorporated by Reference
(1) You must use Casera Single Engine Service Bulletin SE08-34-02, Revision 1, dated October 6, 2008; Casera Cessna Service Bulletin CAB08-4, Revision 1, dated October 6, 2008; Casera Single Engine Service Bulletin SE08-6, dated October 13, 2008; or Casera Multi-engine Service Bulletin ME08-6, dated October 13, 2008, to do the actions required by this AD, unless the AD specifies otherwise.
(2) The Director of the Federal Register approved the incorporation by reference of this service information under 14 CFR 25.19 and 12 CFR part 11.
(3) For service information identified in this AD, contact Casera Aircraft Company, 1401 S.W. 154th Avenue, Wichita, Kansas 67227; telephone: (800) 423-7702; (316) 874-6096; Internet: <http://www.casera.com>.
(4) You may review copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov>.
(5) For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov>.
(6) Smith, Manager, Small Airplane Directorate, Aircraft Certification Service.

Table 1--Applicable Airplane Models

Models		
F172K	F172K	F177
F172A	F172L	F177A
F172B	F172M	F177B
F172C	F172N	F177C
F172D	F172P	F177D
F172E	F172R	F177E
F172F (USAF T-41A)	F172S	F177F
F172G (USAF T-41A)	F172T	F177G
F172H (USAF T-41A)	F172U	F177H
F172I	F172V	F177I
F172J	F172W	F177J
F172K	F172X	F177K
F172L	F172Y	F177L
F172M	F172Z	F177M
F172N	F1730 (USAF T-41B) (USAF T-41C and D)	F177N
F172P	F1731 (USAF T-41)	F177P
F172Q	F1732 (USAF T-41C or D)	F177Q
F172R	F1733 (USAF T-41B)	F177R
F172S	F1734	F177S
F172T	F1735	F177T
F172U	F1736	F177U
F172V	F1737	F177V
F172W	F1738	F177W
F172X	F1739	F177X
F172Y	F1740	F177Y
F172Z	F1741	F177Z
F1730	F1742	F1780
F1731	F1743	F1781
F1732	F1744	F1782
F1733	F1745	F1783
F1734	F1746	F1784
F1735	F1747	F1785
F1736	F1748	F1786
F1737	F1749	F1787
F1738	F1750	F1788
F1739	F1751	F1789
F1740	F1752	F1790
F1741	F1753	F1791
F1742	F1754	F1792
F1743	F1755	F1793
F1744	F1756	F1794
F1745	F1757	F1795
F1746	F1758	F1796
F1747	F1759	F1797
F1748	F1760	F1798
F1749	F1761	F1799
F1750	F1762	F1800
F1751	F1763	F1801
F1752	F1764	F1802
F1753	F1765	F1803
F1754	F1766	F1804
F1755	F1767	F1805
F1756	F1768	F1806
F1757	F1769	F1807
F1758	F1770	F1808
F1759	F1771	F1809
F1760	F1772	F1810
F1761	F1773	F1811
F1762	F1774	F1812
F1763	F1775	F1813
F1764	F1776	F1814
F1765	F1777	F1815
F1766	F1778	F1816
F1767	F1779	F1817
F1768	F1780	F1818
F1769	F1781	F1819
F1770	F1782	F1820
F1771	F1783	F1821
F1772	F1784	F1822
F1773	F1785	F1823
F1774	F1786	F1824
F1775	F1787	F1825
F1776	F1788	F1826
F1777	F1789	F1827
F1778	F1790	F1828
F1779	F1791	F1829
F1780	F1792	F1830
F1781	F1793	F1831
F1782	F1794	F1832
F1783	F1795	F1833
F1784	F1796	F1834
F1785	F1797	F1835
F1786	F1798	F1836
F1787	F1799	F1837
F1788	F1800	F1838
F1789	F1801	F1839
F1790	F1802	F1840
F1791	F1803	F1841
F1792	F1804	F1842
F1793	F1805	F1843
F1794	F1806	F1844
F1795	F1807	F1845
F1796	F1808	F1846
F1797	F1809	F1847
F1798	F1810	F1848
F1799	F1811	F1849
F1800	F1812	F1850
F1801	F1813	F1851
F1802	F1814	F1852
F1803	F1815	F1853
F1804	F1816	F1854
F1805	F1817	F1855
F1806	F1818	F1856
F1807	F1819	F1857
F1808	F1820	F1858
F1809	F1821	F1859
F1810	F1822	F1860
F1811	F1823	F1861
F1812	F1824	F1862
F1813	F1825	F1863
F1814	F1826	F1864
F1815	F1827	F1865
F1816	F1828	F1866
F1817	F1829	F1867
F1818	F1830	F1868
F1819	F1831	F1869
F1820	F1832	F1870
F1821	F1833	F1871
F1822	F1834	F1872
F1823	F1835	F1873
F1824	F1836	F1874
F1825	F1837	F1875
F1826	F1838	F1876
F1827	F1839	F1877
F1828	F1840	F1878
F1829	F1841	F1879
F1830	F1842	F1880
F1831	F1843	F1881
F1832	F1844	F1882
F1833	F1845	F1883
F1834	F1846	F1884
F1835	F1847	F1885
F1836	F1848	F1886
F1837	F1849	F1887
F1838	F1850	F1888
F1839	F1851	F1889
F1840	F1852	F1890
F1841	F1853	F1891
F1842	F1854	F1892
F1843	F1855	F1893
F1844	F1856	F1894
F1845	F1857	F1895
F1846	F1858	F1896
F1847	F1859	F1897
F1848	F1860	F1898
F1849	F1861	F1899
F1850	F1862	F1900
F1851	F1863	F1901
F1852	F1864	F1902
F1853	F1865	F1903
F1854	F1866	F1904
F1855	F1867	F1905
F1856	F1868	F1906
F1857	F1869	F1907
F1858	F1870	F1908
F1859	F1871	F1909
F1860	F1872	F1910
F1861	F1873	F1911
F1862	F1874	F1912
F1863	F1875	F1913
F1864	F1876	F1914
F1865	F1877	F1915
F1866	F1878	F1916
F1867	F1879	F1917
F1868	F1880	F1918
F1869	F1881	F1919
F1870	F1882	F1920
F1871	F1883	F1921
F1872	F1884	F1922
F1873	F1885	F1923
F1874	F1886	F1924
F1875	F1887	F1925
F1876	F1888	F1926
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F1878	F1890	F1928
F1879	F1891	F1929
F1880	F1892	F1930
F1881	F1893	F1931
F1882	F1894	F1932
F1883	F1895	F1933
F1884	F1896	F1934
F1885	F1897	F1935
F1886	F1898	F1936
F1887	F1899	F1937
F1888	F1900	F1938
F1889	F1901	F1939
F1890	F1902	F1940
F1891	F1903	F1941
F1892	F1904	F1942
F1893	F1905	F1943
F1894	F1906	F1944
F1895	F1907	F1945
F1896	F1908	F1946
F1897	F1909	F1947
F1898	F1910	F1948
F1899	F1911	F1949
F1900	F1912	F1950
F1901	F1913	F1951
F1902	F1914	F1952
F1903	F1915	F1953
F1904	F1916	F1954
F1905	F1917	F1955
F1906	F1918	F1956
F1907	F1919	F1957
F1908	F1920	F1958
F1909	F1921	F1959
F1910	F1922	F1960
F1911	F1923	F1961
F1912	F1924	F1962
F1913	F1925	F1963
F1914	F1926	F1964
F1915	F1927	F1965
F1916	F1928	F1966
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F1918	F1930	F1968
F1919	F1931	F1969
F1920	F1932	F1970
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F1954	F1966	F2004
F1955	F1967	F2005
F1956	F1968	F2006
F1957	F1969	F2007
F1958	F1970	F2008
F1959	F1971	F2009
F1960	F1972	F2010
F1961	F1973	F2011
F1962	F1974	F2012
F1963	F1975	F2013
F1964	F1976	F2014
F1965	F1977	F2015
F1966	F1978	F2016
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F1975	F1987	F2025
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F1980	F1992	F2030
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F1991	F2003	F2041
F1992	F2004	F2042
F1993	F2005	F2043
F1994	F2006	F2044
F1995	F2007	F2045
F1996	F2008	F2046
F1997	F2009	F2047
F1998	F2010	F2048
F1999	F2011	F2049
F2000	F2012	F2050
F2001	F2013	F2051
F2002	F2014	F2052
F2003	F2015	F2053
F2004	F2016	F2054
F2005	F2017	F2055
F2006	F2018	F2056
F2007	F2019	F2057
F2008	F2020	F2058
F2009	F2021	F2059
F2010	F2022	F2060
F2011	F2023	F2061
F2012	F2024	F2062
F2013	F2025	F2063
F2014	F2026	F2064
F2015	F2027	F2065
F2016	F2028	F2066
F2017	F2029	F2067
F2018	F2030	F2068
F2019	F2031	F2069
F2020	F2032	F2070
F2021	F2033	F2071
F2022	F2034	F2072
F2023	F2035	F2073
F2024	F2036	F2074
F2025	F2037	F2075
F2026	F2038	F2076
F2027	F2039	F2077
F2028	F2040	F2078
F2029	F2041	F2079
F2030	F2042	F2080
F2031	F2043	F2081
F2032	F2044	F2082
F2033	F2045	F2083
F2034	F2046	F2084
F2035	F2047	F2085
F2036	F2048	F2086
F2037	F2049	F2087
F2038	F2050	F2088
F2039	F2051	F2089
F2040	F2052	F2090
F2041	F2053	F2091
F2042	F2054	F2092
F2043	F2055	F2093
F2044	F2056	F2094
F2045	F2057	F2095
F2046	F2058	F2096
F2047	F2059	F2097
F2048	F2060	F2098
F2049	F2061	F2099
F2050	F2062	F2100
F2051	F2063	F2101
F2052	F2064	F2102
F2053	F2065	F2103
F2054	F2066	F2104
F2055	F2067	F2105
F2056	F2068	F2106
F2057	F2069	F2107
F2058	F2070	F2108
F2059	F2071	F2109
F2060	F2072	F2110
F2061	F2073	F2111
F2062	F2074	F2112
F2063	F2075	F2113
F2064	F2076	F2114
F2065	F2077	F2115
F2066	F2078	F2116
F2067	F2079	F2117
F2068	F2080	F2118
F2069	F2081	F2119
F2070	F2082	F2120
F2071	F2083	F2121
F2072	F2084	F2122
F2073	F2085	F2123
F2074	F2086	F2124
F2075	F2087	F2125
F2076	F2088	F2126
F2077	F2089	F2127
F2078	F2090	F2128
F2079	F2091	F2129
F2080	F2092	F2130
F2081	F2093	F2131
F2082	F2094	F2132
F2083	F2095	F21

84-26-2 R Induction Air Filters

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

N11212N REGISTRATION NUMBER	adNote	84-26-2 R AD NUMBER
11230776 REGISTRATION NUMBER	Induction Air Filters	
C617E TYPE AIRCRAFT		

multi-engine: Left Right Both Rear

DATE	TOTAL TIME AT COMPL.	TACH OR RECORDING METER TIME AT COMPL.	METHOD OF COMPLIANCE	NEXT COMPL. DUE AT		AUTHORIZED SIGNATURE & NUMBER
				TOTAL TIME	TACH OR RECORDING METER TIME	
12-2-04	477.7	477.7	Chg by Replacement	477.7	477.7	Eric S. Amick/ML33754958
9-2-15	1443.1	1443.1	Chg by Replacement	1443.1	1443.1	James T. Markey A17164973

Amendment 39-4955. Applies to all paper induction air filters used in small airplanes.

Compliance: Required as indicated, unless already accomplished.

To prevent possible engine power loss or stoppage caused by engine ingestion of fragments of a deteriorated induction air filter, accomplish the following:

Within the next one hundred hours time-in-service after the effective date of this AD or prior to the accumulation of 500 hours time-in-service on the filter, whichever occurs later, and thereafter at intervals not exceeding 500 hours time-in-service on the filter:

- Replace the air filter with a new filter that is FAA approved for the airplane installation.
- Within 100 hours time-in-service replace any filter on which the time-in-service cannot be determined utilizing the airplane maintenance records for this determination.


NOTE: This AD does not alter current maintenance procedures which require inspection of paper induction air filters at 100 hours time-in-service and annual inspections and replacement as necessary based on filter condition.

This amendment becomes effective January 29, 1985.

1726V
AD NUMBER

172540776
AD NUMBER

6E-172
REVISED



Lycoming Engine

2004-10-14 corr. R
AD NUMBER

Multi-engine: Left Right Front Rear Engine Model: _____ Serial No.: _____

DATE	TOTAL TIME AT COMPL.	TACH OR RECORDING METHOD AT COMPL.	METHOD OF COMPLIANCE	NEXT COMPL.	DATE AT WHICH	AUTHORIZED SIGNATURE & NUMBER
				TOTAL TIME	RECORDED METHOD TIME	

Amendment 20-13644, Docket No. 60-AWE-10-AD. Supersedes AD 91-14-22, Amendment 20-9516.

Effective Date
(b) This AD becomes effective June 25, 2004.

Affected ADs
(a) This AD supersedes AD 91-14-22.

Applicability
(1) This AD applies to Lycoming Engines (formerly Teuton Lycoming), direct-drive reciprocating engines (except O-145, O-320-A, O-360-E, LO-360-E, LTO-360-E, TO-360-E, O-435, and TIO-541 series engines).

Unsafe Condition
(2) This AD results from a change to the definition of a propeller strike or sudden stoppage. The actions specified in this AD are intended to prevent loosening or failure of the crankshaft gear retaining bolt, which may cause sudden engine failure.

Compliance
(3) Compliance with this AD is required as indicated before further flight if the engine experiences a propeller strike after the effective date of this AD, as defined in paragraphs (1) and (2) of this AD.

(4) Inspect, and if necessary repair, the crankshaft counter bore recess, the alignment dowel, the bolt hole threads, and the crankshaft gear for wear, galling, corrosion, and fretting in accordance with steps 1 through 5 of Lycoming Mandatory Service Bulletin (MSB) No. 475C, dated January 30, 2003.

(5) Remove the existing gear retaining bolt and lockplate from service, and install a new bolt and lockplate, in accordance with steps 6 and 7 of Lycoming MSB No. 475C, dated January 30, 2003.

Prohibition of Retaining Bolt and Lockplate
(6) Do not install the gear retaining bolt and lockplate that were removed in paragraph (5) of this AD, into any engine.

Definition of Propeller Strike
(7) For the purposes of this AD, a propeller strike is defined as follows:
(1) Any incident, whether or not the engine is operating, that requires repair to the propeller other than minor dressing of the blades.
(2) Any incident during engine operation in which the propeller impacts a solid object that causes a drop in revolutions per minute (RPM) and also requires structural repair of the propeller (incidents requiring only paint touch-up are not included). This is not restricted to propeller strikes against the ground.
(3) A sudden RPM drop while impacting water, tall grass, or similar yielding medium, where propeller damage is not normally incurred.

(8) The preceding definitions include situations where an aircraft is stationary and the landing gear collapses causing one or more blades to be substantially bent, or where a hanger door (or other object) strikes the propeller blades. These cases should be handled as sudden stoppages because of potentially severe side loading on the crankshaft flange, Vort bearing, and seal.

Alternative Methods of Compliance
(9) The Manager, New York Aircraft Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

Material Incorporated by Reference
(10) You must use Lycoming MSB No. 475C, dated January 30, 2003, to perform the inspections and repairs required by this AD. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(i) and 1 CFR part 91. You can get a copy from Lycoming Engines, 651 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181; fax (570) 327-7101. You can review copies at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA, or at the National Archives and Records Administration (NARA). For information on the availability of the material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal-register/code-of-federal-regulations/cfr_documents.html

Related Information
(11) None.

Issued in Burlington, Massachusetts, on May 12, 2004. Peter A. White, Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.

CORRECTION: [Federal Register, June 28, 2004 (Volume 69, Number 123), Page 36007; www.access.gpo.gov/nis/foia/foiaaccess/140.html] On to the attached pdf for full correction text. This copy reflects the correction.

N172RV
adNote
2008-14-7 R

172S1074
AD NUMBER

CC-A72
Lycoming Engine

DATE	TOTAL TIME AT COMPL.	TACH ON RECORDING METER TIME AT COMPL.	METHOD OF COMPLIANCE	TOTAL TIME	DATE TACH ON RECORDING METER TIME	AUTHORIZED SIGNATURE & NUMBER
12-2-07	477.7	477.7	Chk by Visual Insp prior to flight	577.7	577.7	Ensign Aircraft Corp 337519424

Amendment 38-18002, Docket No. FAA-2007-0210, Directorate Identifier 02-ANE-66-AD.
Effective Date
 (b) This airworthiness directive (AD) becomes effective August 14, 2008.
Affected ADs
 (c) This AD supplements AD 2006-26-01, Amendment 20-12005.
Applicability
 (d) This AD applies to four (4) type certificated reciprocating engines manufactured by Lycoming Engines that incorporate externally mounted fuel injection lines (engines with an "E" in the prefix of the engine model designation) as listed in the following table.
Inspection Note: Table 1 that sets in this section in the FAA's Computerized Airworthiness Directive has been moved to pg. 2 to facilitate completion of this AD.
Engine models in Table 1 are included on, but not limited to, Piper PA-24 Conquest, PA-24 and PA-24 Twin Conquest, PA-28 Arrow, and PA-28 Arrow II Mustang, Mooney 20, and Cessna 177 Cardinal airplanes with an "E" in the prefix of the engine model designation.
 (e) This AD is not applicable to engines being internally mounted fuel injection lines, which are not addressed.
 (f) This AD is not applicable to engines that have a Maintenance and Overhaul Manual with an Airworthiness Conditions Section that requires inspection directly mounted fuel injection lines. Those engine models are not included in Table 1 of the AD.
Unsafe Condition
 (g) This AD results from Lycoming Engines revising their Mandatory Service Bulletin (MSB) to add new engine models requiring inspection, and from the need to clarify a repetitive inspection compliance time. We are issuing this AD to prevent failure of the fuel injector fuel lines that would allow fuel to spray into the engine compartment, resulting in an engine fire.
Compliance
 (h) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.
Engine Models That Have Had Initial Inspections
 (i) For engines that have had initial inspections in accordance with Textron Lycoming MSB No. 342, dated March 24, 1972; Textron Lycoming MSB No. 342A, dated May 25, 1992; Textron Lycoming MSB No. 342B, dated October 20, 1983; Supplement No. 1 to MSB No. 342B, dated April 27, 1986; Textron Lycoming MSB No. 342C, dated April 28, 2006; Textron Lycoming MSB No. 342C, dated May 13, 2007; and Lycoming Engine MSB No. 342C, dated May 19, 2004, inspect in accordance with paragraph (j) of the AD.
Engine Models That Have Not Had Initial Inspections
 (j) For engines that have not had initial inspections previously done in accordance with Textron Lycoming MSB No. 342, dated March 24, 1972; Textron Lycoming MSB No. 342A, dated May 25, 1992; Textron Lycoming MSB No. 342B, dated October 22, 1992; Supplement No. 1 to MSB No. 342B, dated April 27, 1986; Textron Lycoming MSB No. 342C, dated April 28, 2006; Textron Lycoming MSB No. 342C, dated May 13, 2007; or Lycoming Engine MSB No. 342C, dated May 19, 2004, inspect in accordance with paragraph (k) of the AD.
Alternative Methods of Compliance
 (k) The Manager, New York Aircraft Certification Office, FAA, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.
Related Information
 (l) FAA Special Airworthiness Information Bulletin No. NE-CI-48, dated September 20, 2007, is not mandatory, but has additional information on this subject.
 (m) Contact Norm Peterson, Aerospace Engineer, New York Aircraft Certification Office, FAA, Engine & Propeller Directorate, 3000 Street Avenue, Suite 410, Westbury, NY 11591, e-mail: norm.peterson@faa.gov; telephone (516) 228-7277; fax (516) 794-6031, for more information about this AD.
Material Incorporated by Reference
 (n) You must use Lycoming Engines Mandatory Service Bulletin No. 342C, dated May 16, 2004, to perform the actions required by this AD. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 91. Contact Lycoming Engines, 422 Clover Street, Williamsport, PA 17751, or go to: http://www.lycoming.com for a copy of this service information. You may review copies at the FAA, New England Region 12, New England Executive Park, Burlington, MA, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-547-0600, or go to: http://www.archives.gov/foia/foia-requests.html.
 Issued in Burlington, Massachusetts on June 24, 2008.
 Peter A. White, Assistant Manager, Engine and Propeller Directorate, Aircraft Certification Service.
 (See Table 1 on page 2)

(Page 2 of Airworthiness Directive 2008-14-07)

Table 1.—Engine Models Affected

Engine	Model
AEIO-320	-D1B, -D2B, -E1B, -E2B
AIO-320	-A1B, -B1B, -C1B
LO-320	-B1A, -B1C, -C1A, -D1A, -D1B, -E1A, -E1B, -E2A, -E2B
LIO-320	-B1A, -C1A
AEIO-360	-A1A, -A1B, -A1B6, -A1D, -A1E, -A1E6, -B1F, -B2F, -B1G6, -B1H, -B4A, -H1A, -H1B
AIO-360	-A1A, -A1B, -B1B
HIO-360	-A1A, -A1B, -B1A, -C1A, -C1B, -D1A, -E1AD, -E1BD, -F1AD, -G1A
IO-360	-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A2A, -A2B, -A3B6, -A3B6D, -B1B, -B1D, -B1E, -B1F, -B1G6, -B2F, -B2F6, -B4A, -C1A, -C1B, -C1C, -C1D6, -C1D6, -C1E6, -C1F, -C1G6, -C2G6, -F1A, -F1AD, -M1B, -L2A, -M1A
TVO-360	-A1A
LIO-360	-C1E6
TIO-360	-A1B, -C1A6D
TGO-480	-A1B6
AEIO-540	-D4A5, -D4B5, -D4D5, -L1B5, -L1B5D, -L1D5
TGO-540	-B1A, -B1C
IO-540	-A1A5, -A1A5A, -A1B5, -A1B5A, -A1C5A, -A1E5A, -B1A5, -B1C5, -C1B5, -C4B5, -C4D5, -D4A5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -J4A5, -V4A5D, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1E5D, -K1F5, -K1H5, -K1J5, -K1F5D, -K1G5, -K1G5D, -K1H5, -K1A5D, -K1K5, -K1E5, -K1E5D, -K1F5, -K1J5, -L1C5, -M1A5, -M1B5D, -M1C5, -N1A5, -P1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5, -V4A5D, -W1A5, -W1A5D, -W3A5D
TVO-540	-A1A
LIO-540	-F2B0, -J2B, -J2BD, -N2BD, -R2AD, -U2A, -V2AD, -W2A
TIO-540	-A1A, -A1B, -A2A, -A2B, -A2C, -A2E1A5, -A2E2A, -A1A1A, -A1A1AD, -A1A1A, -A1B1A, -A1B1AD, -A1B1B, -A1A1A, -A1A1A, -C1A, -E1A, -G1A, -F2B0, -J2B, -J2BD, -N2BD, -R2AD, -S1AD, -U2A, -V2AD, -W2A
TVO-540	-A2A
IO-720	-A1A, -A1B, -D1B, -D1BD, -D1C, -D1CD, -B1B, -B1BD, -C1B

Amendtech Note: We have highlighted the additional engines that we have found to be added to this airworthiness directive as compared with table 1 of the superseded AD. This may not be an inclusive, please check carefully.

N172Q-V
adNote
2009-2-3 N/R

172S49776
AD NUMBER

CE-172
Precision Airmotive Fuel Injectors

DATE	TOTAL TIME AT COMPL.	TWO OR MORE TIMES AT COMPL.	METHOD OF COMPLIANCE	MECH/COMP.	DATE TACK OR RECORDING NO/FA TIME	TOTAL TIME	AUTHORIZED SIGNATURE & NUMBER
9/27/07	235-Y		Asst. Q. W. S. 404 P. (Asst. Q.)			285-Y	[Signature] 285-111

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Amendment 38-16789. DocRef No. FAA-2009-020. Obsolete Identifier 2009-AD-10-AC.

Effective Date
 (a) This airworthiness directive (AD) becomes effective February 9, 2009.

Affected ADs
 (1) This AD supersedes AD 2008-08-14, Amendment 38-16488.

Applicability
 (a) This AD applies to the following reciprocating engines with a Precision Airmotive LLC, RSA-8 or RSA-10 series, or Bando, RSA-8 or RSA-10 series, fuel injection servo, timing & servo, plug, gasket, part number (PN) 385533, that were previously fitted to the fuel injection servo plug, PN 385443, on or after August 22, 2008:
 (1) Lycoming Engine IO, (L)IO, (T)IO, (A)IO, (A)IO, (A)IO, and (A)IO series reciprocating engines.
 (2) Teledyne Continental Motors L750-360-AB and T750-360-AB reciprocating engine.
 (3) Suction Air Parts, Inc. IO-360 series reciprocating engine.
 (b) This AD also applies to any other Precision Airmotive LLC, RSA-8 or RSA-10 series, or Bando, RSA-8 or RSA-10 series, fuel injection servo, timing & servo, plug, gasket, part number (PN) 385533, that were previously fitted to the fuel injection servo plug, PN 385443, on or after August 22, 2008, without a PN 257728 gasket and it does not have a letter "G" on the fuel injection servo plug, PN 385443, or:
 (1) Any fuel injection servo that its installation history is not known.
Unsafe Condition
 (a) This AD results from Precision Airmotive LLC replacing the installation of a new improved servo plug gasket, PN 257728, to the affected Precision Airmotive LLC, RSA-8 and RSA-10 series, and Bando, RSA-8 and RSA-10 series, fuel injection servo, timing & servo, plug, gasket, part number (PN) 385533, that were previously fitted to the fuel injection servo plug, PN 385443, on or after August 22, 2008, without a PN 257728 gasket and it does not have a letter "G" on the fuel injection servo plug, PN 385443, or:
 (1) The unsafe condition of engine power and subsequent loss of control of the airplane.
Compliance
 (a) You are responsible for finding the actions required by this AD prior to the flight, unless the actions have already been done.
 (b) Before further flight, inspect the fuel injection servo plug, PN 385443, for looseness, by attempting to turn it by hand, while being careful not to damage the safety wire or seal. If the plug moves, it is loose.
 (c) If the plug is loose, do the following:
 (1) Remove the plug and inspect the safety wire that spans between the servo plug and regulator cover only.
 (2) Remove the servo plug and gasket, PN 385533, that is behind the plug. The gasket may be slightly stuck to the regulator cover.
 (3) Examine the threads on the servo plug and regulator cover for damage. Threads should be smooth and undamaged, with no burrs or chips. The servo plug outer diameter should measure within 0.2 to 0.000 inch.
 (4) If the threads on either the servo plug or the regulator cover are damaged, or do not measure within the limits in paragraph (c) of this AD, the servo is not eligible for any installation and must be scrapped in accordance with the applicable engine flight.
 (5) Replace the gasket, PN 385533, with a new improved gasket, PN 257728.
 (6) While the plug is removed, apply or verify the letter "G" onto the face of the fuel plug. Information on applying or adding can be found in Precision Airmotive LLC Mandatory Service Bulletin (MSB) 028-01 (Revision 1), dated July 16, 2009.
 (7) When reassembling, do not install any servo plug or regulator cover that is not eligible for installation, install a new gasket, PN 257728, onto the servo plug and reassemble the servo plug to the regulator cover.
 (8) Tighten the servo plug to the flight torque of 90-100 in. lbs. to maintain the proper start-up force between the plug and cover.
 (9) Safety wire the servo plug with CS161 thru CS205 inch diameter wire to the regulator cover. Information on properly wiring the plug can be found in Precision Airmotive LLC MSB No. 089-07, Revision 4, dated July 16, 2009.

(10) Inspect all other safety wire on the servo. Replace any that are damaged.
Repetitive Inspections
 (1) For servo plugs that passed inspection with a gasket, PN 385533 installed, at every engine on change or within every 90 hours of engine run time, whichever occurs first, repeat the inspection and removal steps specified in paragraphs (g) through (i)(1)(5) of this AD.
Mandatory Terminating Action
 (a) By December 31, 2009, no mandatory terminating action to the repetitive inspections required by this AD, replace all servo plug gaskets, PN 385533 that are installed on servos affected by this AD, with gaskets, PN 257728.
 (b) Use paragraphs (c) through (i) of this AD, to do the gasket replacement.
Prohibition of Handling Defect PN 385533
 (a) After the effective date of this AD, do not install gasket, PN 385533, onto any fuel injection servo.
Identification of Servo Plug Defects
 (1) Servo plug gaskets, PN 385533, are identified as being made of either a paper or fiber material, impregnated with synthetic rubber. They are relatively flexible and have a rough surface.
 (2) Some plug gaskets, PN 385533, are identified as being made of metal with a coating of synthetic rubber. They are relatively rigid and have a smooth surface.
Special Flight Prohibitions
 (1) Under 14 CFR part 91.23, we are prohibiting special flight permits.
Alternative Methods of Compliance
 (1) The Manager, Seattle Aircraft Certification Office, may approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.
Related Information
 (1) For Precision Airmotive LLC, Richard Simonson, Aerospace Engineer, Manager, Seattle, WA, Transport Airframe Directorate, 1601 Lind Avenue, SE, Renton, Washington 98055; e-mail: Richard.simonson@faa.gov; telephone (425) 917-8907; fax (425) 917-6993.
 (2) For Lycoming Engines, Norm Peterson, Aerospace Engineer, New York Aircraft Certification Office, FAA, Engine & Propeller Directorate, 100 Stewart Avenue, Suite 410, Middletown, NY 11769; e-mail: Norm.peterson@faa.gov; telephone (815) 226-2527; fax (815) 794-5521.
 (3) For Teledyne Continental Motors, Keith Brock, Aerospace Engineer, Alaska Aircraft Certification Office, FAA, Small Airplane Directorate, One Crowl Center, 5555 Phoenix Blvd., Suite 400, Alaska, CA 99584; e-mail: keith.brock@faa.gov; telephone (773) 703-6283; fax (773) 703-6287.
 (4) For Suction Air Parts, Inc., Tawaf Rafi, Aerospace Engineer, Special Certification Office, FAA, Aircraft Directorate, Southwest Regional Procurement, 2501 MacArthur Blvd., Fort Worth, Texas 76157; e-mail: Tawaf.rafi@faa.gov; telephone (817) 222-5755; fax (817) 222-5756.
 (5) For FAA Special Airworthiness Information Bulletin NE-03-04, dated January 9, 2008, also refers to checking servo plugs for looseness on Precision Airmotive LLC, RSA-8 and RSA-10 series, and Bando, RSA-8 and RSA-10 series, earlier produced fuel injection servos, see affected by this AD.
 (6) Precision Airmotive LLC MSB No. 089-07, Revision 4, dated July 16, 2009, also refers to the subject of this AD. Contact Precision Airmotive LLC, 14800 40th Avenue, NE, Marysville, Washington 98271; telephone (360) 661-6382; fax (360) 661-6383; e-mail: info@precisionairmotive.com; for a copy of the MSB.
Material Incorporated by Reference
 (a) None.
 (b) None.
 (c) None.
 (d) None.
 (e) None.
 (f) None.
 (g) None.
 (h) None.
 (i) None.
 (j) None.
 (k) None.
 (l) None.
 (m) None.
 (n) None.
 (o) None.
 (p) None.
 (q) None.
 (r) None.
 (s) None.
 (t) None.
 (u) None.
 (v) None.
 (w) None.
 (x) None.
 (y) None.
 (z) None.

adNote 2009-26-12 N/R
 AD NUMBER

ECI Cylinders

If multi-engine: Left Right Front Rear Engine Model: IO-360-LEA Serial No: L-346493-54E

DATE	TOTAL TIME AT COMPL.	CHECK OR RECORDING METHOD	METHOD OF COMPLIANCE	TOTAL TIME	NEXT COMPL.		AUTHORIZED SIGNATURE & NUMBER
					DATE AT COMPL.	BY WHOM	
12-2-09	477.7	477.7	Asb by Pilot as per AD				George R. Smith ADP 3375494 EA

Amendment 38-18561. Docket No. FAA-2009-0302. Directorate Identifier 2009-AD-01-02.
 Effective Date: 12/02/09.
 This AD becomes effective February 4, 2010.
 This AD applies to the Lycoming Engines (formerly Textron Lycoming) models 300, 300, and 340 series "turbo-type" reciprocating engines listed in Table 1 of this AD.
 If your engine has not been maintained or not had any cylinder assemblies replaced since a previous action is required.
 This AD applies to the Lycoming Engines (formerly Textron Lycoming) models 300, 300, and 340 series "turbo-type" reciprocating engines listed in Table 1 of this AD.
 The cylinder assembly, P/N is at the overtake end of the cylinder assembly, and might be difficult to see. As a guide in determining if your cylinder assemblies are affected, all affected cylinder assemblies have cylinder head P/N 4200000. The cylinder head P/N is at the top of the cylinder head, and one valve and exhaust valve wings, and a seat for numbers appearing on the cylinder above and to the left of the line, see the illustration in the AD for more information.

Table 1—Engine Models

Cylinder Assembly Part Number	Installed as Engine Models
4200000-10214	IO-360-A1A, A1A2, A1A3, A1A4, A1A5, A1A6, A1A7, A1A8, A1A9, A1A10, A1A11, A1A12, A1A13, A1A14, A1A15, A1A16, A1A17, A1A18, A1A19, A1A20, A1A21, A1A22, A1A23, A1A24, A1A25, A1A26, A1A27, A1A28, A1A29, A1A30, A1A31, A1A32, A1A33, A1A34, A1A35, A1A36, A1A37, A1A38, A1A39, A1A40, A1A41, A1A42, A1A43, A1A44, A1A45, A1A46, A1A47, A1A48, A1A49, A1A50, A1A51, A1A52, A1A53, A1A54, A1A55, A1A56, A1A57, A1A58, A1A59, A1A60, A1A61, A1A62, A1A63, A1A64, A1A65, A1A66, A1A67, A1A68, A1A69, A1A70, A1A71, A1A72, A1A73, A1A74, A1A75, A1A76, A1A77, A1A78, A1A79, A1A80, A1A81, A1A82, A1A83, A1A84, A1A85, A1A86, A1A87, A1A88, A1A89, A1A90, A1A91, A1A92, A1A93, A1A94, A1A95, A1A96, A1A97, A1A98, A1A99, A1A100, A1A101, A1A102, A1A103, A1A104, A1A105, A1A106, A1A107, A1A108, A1A109, A1A110, A1A111, A1A112, A1A113, A1A114, A1A115, A1A116, A1A117, A1A118, A1A119, A1A120, A1A121, A1A122, A1A123, A1A124, A1A125, A1A126, A1A127, A1A128, A1A129, A1A130, A1A131, A1A132, A1A133, A1A134, A1A135, A1A136, 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A1A1454, A1A1455, A1A1456, A1A1457, A1A1458, A1A1459, A1A1460, A1A1461, A1A1462, A1A1463, A1A1464, A1A1465, A1A1466, A1A1467, A1A1468, A1A1469, A1A1470, A1A1471, A1A1472, A1A1473, A1A1474, A1A1475, A1A1476, A1A1477, A1A1478, A1A1479, A1A1480, A1A1481, A1A1482, A1A1483, A1A1484, A1A1485, A1A1486, A1A1487, A1A1488, A1A1489, A1A1490, A1A1491, A1A1492, A1A1493, A1A1494, A1A1495, A1A1496, A1A1497, A1A1498, A1A1499, A1A1500, A1A1501, A1A1502, A1A1503, A1A1504, A1A1505, A1A1506, A1A1507, A1A1508, A1A1509, A1A1510, A1A1511, A1A1512, A1A1513, A1A1514, A1A1515, A1A1516, A1A1517, A1A1518, A1A1519, A1A1520, A1A1521, A1A1522, A1A1523, A1A1524, A1A1525, A1A1526, A1A1527, A1A1528, A1A1529, A1A1530, A1A1531, A1A1532, A1A1533, A1A1534, A1A1535, A1A1536, A1A1537, A1A1538, A1A1539, A1A1540, A1A1541, A1A1542, A1A1543, A1A1544, A1A1545, A1A1546, A1A1547, A1A1548, A1A1549, A1A1550, A1A1551, A1A1552, A1A1553, A1A1554, A1A1555, A1A1556, A1A1557, A1A1558, A1A1559, A1A1560, A1A1561, A1A1562, A1A15

G1000 Synthetic Vision Technology (SVT)

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

G1000 SYNTHETIC VISION TECHNOLOGY (SVT) INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)

- ATTACHMENT -

Cessna Aircraft Company
P.O. Box 7704
Wichita, Kansas 67277

Model Numbers

172R/172S
182T/182Z
206H/T206H

Page 11

SB09-34-07
June 22, 2009

1. Introduction

- A. The purpose of this Service Bulletin Attachment is to provide the maintenance technician with the information necessary to ensure the correct functionality and performance of the G1000 Synthetic Vision Technology (SVT) Option on the applicable Cessna Models.
- B. This document is designed to satisfy the 14 CFR 23.1529 "Instructions for Continued Airworthiness" requirements associated with this installation. This document is a supplement to the applicable Model Maintenance Manual and may or may not be incorporated.
- C. If this information is incorporated into the applicable Model Maintenance Manual, the maintenance manual shall take precedence over this document.

NOTE: This document must be placed with the aircraft operator's Technical Library CD-ROM or Maintenance Manual and incorporated into the operator's scheduled maintenance program.

2. Description and Operation

A. Description

- Synthetic Vision Technology (SVT) provides a three-dimensional forward view of terrain, obstacle and traffic features on the PFD and on the MFD in reversionary mode. The imagery shows the pilot's view of relevant features in relation to the aircraft altitude and attitude. Throughout this document and the Garmin Pilot Guide and Cockpit Reference Guide, SVT may also be referred to as Synthetic Vision System (SVS).

B. Operation

- (1) SVT is activated from the Primary Flight Display (PFD) using the soft key located along the bottom edge of the Display. Pressing the soft key turns the related function on or off. When SVT is activated, the pitch ladder increments are reduced to 10 degrees up and 7.5 degrees down. SVT functions are displayed on three levels of soft keys. The PFD soft key leads into the PFD function soft keys, including synthetic vision. Pressing the SYN VIS soft key displays the SVT feature soft keys. The soft keys are labeled SYN TERR, HRZN HDG, and APTSIGNS. The BACK soft key returns to the previous level of soft keys. SVT must be active before any other SVT feature may be activated.
- (2) HRZN HDG and APTSIGNS soft keys are only available when the SYN TERR soft key is activated (gray with black characters). After activating the SYN TERR soft key, the HRZN HDG and APTSIGNS soft keys may be activated in any combination to display desired features. When system power is cycled, the last selected state (on or off) of the SYN TERR, HRZN HDG and APTSIGNS soft keys is remembered by the system. • SYN TERR soft key enables synthetic terrain depiction. • HRZN HDG soft key enables horizon heading marks and digits. • APTSIGNS soft key enables airport signposts. Refer to 180-00488-04 (or latest revision) Garmin G1000 Pilot's Guide for the Cessna NAV III, 180-00384-02 (or latest revision) Garmin G1000 Cessna NAV III Cockpit Reference Guide, and appropriate AFM Supplement for full operation instructions.

NOTE: Pathways is configured OFF due to functionality issues. When the functionality is corrected, Pathways will be turned on and the ICA will be updated at that time.

C. System Component(s)

- (1) SD Card, SVS Unlock
 - Garmin supplied Secure Digital (SD) card (P/N 010-00330-04) is required to unlock the SVT option on single PFD G1000 Systems such as NAV III airplanes.
 - NOTE:** Once SVT is unlocked on an airplane then the SD card is married to that S/N airplane. The unlock card cannot be used on other S/N airplanes.
- (2) SD Card, Supplemental SVS Data
 - Garmin supplied SD Card (P/N 010-00330-43) contains the high definition terrain database (9 arc/second resolution) that is required with the SVT option. The SD Card resides in the bottom SD card slot on the PFD and MFD. This card replaces P/N 010-00330-42 SD Card (30-arc/second resolution) (or earlier part numbers).

SB09-34-07
June 22, 2009

Page 12

- (3) G1000 System Software
 - Installation of SVT is only approved with NAV III System 563.14 (or later) software.
- (4) Garmin GDU 1040 or 1044B
 - SVT is displayed on the PFD, GDU 1040 (non-GFC-700 AFCS Models) or 1044B, which consists of a 10.4 inch LCD display with 1024x768 resolution. The GDU configured as a Primary Flight Display or PFD links to the MFD and displays all functions of the G1000 System during flight. The displays communicate throughout the system via a High-Speed Data Bus (HSDB) connection.
- D. Aircraft Wiring
 - There are no wiring changes needed to support the SVT installation option. The existing standard wiring supports the function. Refer to Chapter 34 (Navigation), of the applicable Model Wiring Diagram Manual for avionics wiring definition of the G1000 System as installed standard that supports the Synthetic Vision Technology Option.

3. Removal and Installation

NOTE: If applicable, make sure that the aircraft is configured for maintenance as defined by the associated system in the maintenance manual or in this document, including the removal of electrical power, avionics power, etc., prior to removal or installation of aircraft components.

NOTE: If the PFD/MFD is removed and the same one reinstalled then no action is required.

A. PFD Removal/Installation

- (1) Refer to the applicable Model Maintenance Manual, Chapter 34 (Navigation), 34-60-10 Maintenance Practices, Section 3 or appropriate software Service Bulletin for parts and instructions on loading system software and configuration files.
- (2) SVT configuration will not be overwritten (disabled) unless the NAV III configuration has been updated. In this case refer to Section 7A, (SVT Configuration Upload) within this document and perform steps to unlock SVT functionality.

B. MFD Removal/Installation

- (1) Refer to the applicable Model Maintenance Manual, Chapter 34 (Navigation), 34-60-10 Maintenance Practices, Section 3 or appropriate software Service Bulletin for parts and instructions on loading system software and configuration files.
- (2) SVT configuration will not be overwritten (disabled) unless the NAV III configuration has been updated. In this case refer to Section 7A, (SVT Configuration Upload) within this document and perform steps to unlock SVT functionality.

C. G1000 System Software & Configuration Files

- Anytime the NAV III configuration is updated for the G1000 system the SVT functionality for the aircraft installation is disabled. Refer to Garmin G1000 Line Maintenance Manual for Cessna NAV III, P/N 190-00352-00 Rev N or Later or appropriate Cessna Software Service Bulletin for parts and instructions on loading system software. Refer to Section 7A, (SVT Configuration Upload) within this document and perform steps to unlock SVT functionality.

4. Maintenance and Special Tools

NOTE: The Cessna NAV III Garmin G1000 software CD and SVS unlock SD card are needed when loading system software and unlocking the SVS function. These items should be stored as loose equipment on the airplane. Also refer to the applicable Model Maintenance Manual Chapter 34 (GIA 63 Integrated Avionics Installation – Maintenance Practices) for additional information on software loading.

- A. GDU1XXX SD Card, SVS Unlock P/N 010-00330-54
- B. Cessna NAV III Garmin G1000 Software Loader CD supporting System 563.14 software at minimum must be installed.

Page 13

SB09-34-07
June 22, 2009

5. Testing, Return to Service, and Troubleshooting

A. Adjustment/Test

- (1) For the Garmin GDU 1040 and GDU 1044B, refer to the applicable Model Maintenance Manual, Chapter 34 (Navigation), 34-60-10 Maintenance Practices or Garmin G1000 Line Maintenance Manual for Cessna NAV III, P/N 190-00352-00 Rev N or Later.
- (2) For verification of the SVT functionality refer to Section 7B (SVT Upload Verification) of this document.

B. Inspection/Check

- (1) Refer to Garmin G1000 Line Maintenance Manual for Cessna NAV III, P/N 190-00352-00 Rev N or Later.

C. Troubleshooting

- (1) The SVT software feature requires the following G1000 sensors/data to be valid:
 - Attitude & Heading (AHRS)
 - GPS Position
 - 9-arc/second terrain data.
- (2) In the event that one of the above items fails or is unavailable, the SVS feature is automatically removed from the PFD in normal mode or the MFD in reversionary mode. The following table describes possible symptoms associated with the SVT function, and provides corresponding actions for troubleshooting:

SB09-34-07
June 22, 2009

Page 14

Symptom	Recommended Action
"SYN VIS" soft key does not appear on PFD soft key tier	<ol style="list-style-type: none"> Verify that the PFD and MFD software versions are shown to be GDU 9.05 or later (System 563.14 or later software), by checking the AUX – System Status Page on the MFD. If GDU 9.05 version or later software is installed in the PFD and MFD, follow the steps provided in Section 7A, (SVT Configuration Upload) unlock the SVT feature.
3D terrain presentation does not appear on PFD	<ol style="list-style-type: none"> Verify that Synthetic Vision is activated by following the procedures outlined in SVT Upload Verification, included in Section 7B (SVT Upload Verification) of this document. Verify that P/N 010-00330-43 SD Card, Supplemental Data (includes 9-arc/second terrain database) are installed in the lower slot of the PFD and MFD. Verify that the alert messages shown in Table 2 are not displayed on the PFD Alerts Windows. If so, follow the solutions described in Table 2. Verify that the G1000 Attitude & Heading data are valid on the PFD. Verify that a valid GPS 3D position solution is being received. Troubleshoot these systems in accordance with Garmin Line Maintenance Manual 190-00352-00. If a terrain database update has just been performed, allow the system time to initialize and verify the data. When the databases have been verified, the current database cycle and version are reported on the MFD AUX – System Status Page.

The following table provides SVS specific alert messages which may appear in the Alerts Window on the PFD (press the ALERTS soft key on the PFD to view the Alerts Window):

Failure Message	Cause	Solution
SVS – SVS DISABLED: Out of available terrain region.	SVS is disabled because the aircraft exceeded the boundaries of the loaded terrain database.	<ol style="list-style-type: none"> Geographical operation limitations are defined in the SVS AFMS. Ensure that operations are within this geographic area.
SVS – SVS DISABLED: Terrain DB Resolution too low	SVS is disabled because a 9-arc/second or better database is not currently loaded.	<ol style="list-style-type: none"> Ensure the P/N 010-00330-43 SD Card, Supplemental Data, are installed in the lower slot of each display. If terrain data has been recently updated, ensure that the correct 9-arc/second databases were used.

6. Airworthiness Limitations

- The applicable Model Maintenance Manual, Chapter 5, Time Limits/Maintenance Checks, contains the system and airframe limitations.
- NOTE:** The Airworthiness Limitations section is FAA-approved and specifies maintenance required under Section 43.16 and 91.403 of Title 14 Code of Federal Regulations, unless an alternative program has been FAA approved.

- The SVT system has no mandatory replacement time, inspection interval, or inspection procedures, and has no impact on the applicable Model Maintenance Manual, Chapter 5 Time Limits/Maintenance Checks.

7. SVT System Configuration

A. SVT Configuration Upload

- With the system still powered on, open the PFD (ESS and AVN BUS 1) and MFD (AVN BUS 2) circuit breakers.
- Remove database cards 010-00330-43 from the bottom slots of the PFD and MFD.
- Press and hold the ENTER key on the MFD, close the MFD (AVN BUS 2) circuit breaker.
- Release the MFD ENT key when the message **INITIALIZING SYSTEM** appears.
- Verify the MFD has entered CONFIG mode. If not, open the MFD circuit breakers and repeat Steps 7A(3) thru 7A(5).
- Insert SD loader card into top slot of PFD.
- Repeat Steps 7A(3) thru 7A(5) for the PFD, closing both PFD (ESS & AVN BUS 1) circuit breakers.
- Using the inner FMS knob on the PFD, go to the system group 'system upload' page.

- (9) Activate the cursor and highlight CONFIGURATION files in the airframe field. Turn the inner FMS knob to select CONFIGURATION FILES and press the ENT key.
 - (10) Use the outer FMS knob to highlight ENABLE SVS SINGLE PFD in the file field. Turn the inner FMS knob to select ENABLE SVS SINGLE PFD and press the ENT key.
 - (11) Press the LOAD soft key.
 - (12) Monitor the status of the upload. When the upload is finished, press the ENT key to acknowledge the **UPLOAD COMPLETE** confirmation.
 - (13) Verify the SUMMARY FIELD displays **COMPLETE**.
 - (14) Open the PFD and MFD circuit breakers.
 - (15) Remove the SVT unlock sd card from the top card slot on the PFD.
NOTE: The SVT unlock card is to stay with the aircraft.
 - (16) Insert database cards 010-00330-43 (ref) into the bottom slots of the PFD and MFD.
- B. SVT Upload Verification**
- (1) Close the PFD and MFD circuit breakers.
 - (2) On the PFD, press the PFD soft key.
 - (3) On the PFD, verify the presence of a SYN VIS soft key on the far left.
 - (4) On the PFD, press the SYN VIS soft key.
 - (5) On the PFD, verify three soft keys, beginning with the second key from the far left, are labeled as follows: SYN TERR, HRZN HDG, and APT/SIGNS (some or all may be greyed out).
- C. Field of View Option**
- (1) On the MFD, press the MENU key.
 - (2) Select MAP SETUP from the window that appears.
 - (3) Press the ENT key to bring up the map setup window.
 - (4) Ensure the GROUP is set to MAP, changing the setting with the FMS knobs if necessary.
 - (5) Use the outer FMS knob to select FIELD OF VIEW and the inner FMS knob to change the selection to On.
- D. Power Down System**
- (1) Verify all circuit breakers closed (PFD and MFD).
 - (2) AVIONICS MASTER OFF, BAT MASTER OFF, and verify STDBY BATT OFF.

OWNER NOTIFICATION

On June 22, 2009 the following message will be sent to applicable owners of record in SB09-34-07A.

Dear Cessna Owner:

Service Bulletin SB09-34-07 Garmin G1000 Synthetic Vision Technology (SVT) Installation has been issued to provide enabling instructions for the Garmin G1000 system Synthetic Vision (SVT) without Pathways functionality.

Synthetic Vision Technology (SVT) provides a three-dimensional forward view of terrain, obstacle and traffic features on the PFD and on the MFD in reversionary mode. The imagery shows the pilot's view of relevant features in relation to the aircraft altitude and attitude.

Compliance is optional: may be accomplished if desired.

NOTE: Cessna Service Bulletins SB09-34-06 (or latest revision) Garmin G1000 System Software Upgrade to 563.14 for Airplanes Equipped with NAV III and GFC 700 AFCS Autopilot, and SB09-34-06 (or latest revision) Garmin G1000 System Software Upgrade to 563.14 for Airplanes Equipped with NAV III and Honeywell KAP-140 Autopilot if not already accomplished (or not required because the airplane is at software version 563.14 or later), must be accomplished before installation of the SVT option.

NOTE: SVT installation will require the completion and submittal of a Certification of Installation Form. In the event a replacement SVT unlock card is needed, it will be necessary that the Certification of Installation Form has been submitted to and on record at Cessna.

Garmin G1000 System Synthetic Vision (SVT) is obtained through the attached order form.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB09-34-07 accomplished on your airplane.

GDL 90 UAT Data Link Sensor System

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

GDL 90 STC Instructions for Continued Airworthiness
 Garmin AT, Inc.
 2345 Turner Rd SE
 Salem, OR 97302
 19 September 2007
 Part #: 560-0279-01 Rev C

**GDL 90 UAT Data Link Sensor System
 Instructions for Continued Airworthiness**

Part Number: 560-0279-01
 Document Revision: C
 19 September 2007

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GDL 90 STC Instructions for Continued Airworthiness
 Garmin AT, Inc.
 2345 Turner Rd SE
 Salem, OR 97302
 19 September 2007
 Part #: 560-0279-01 Rev C

Revision Log					
Rev	Date	Description	EN	By	
-00-	26-Jul-04	Initial Release		7835	mak
-00A	26-Apr-04	Update document revisions for original STC issue (2.1). Remove PO Box from signature block.		7891	mak
-00B	08-Jun-04	Update MDL to Rev B for original STC issue (2.1).		7943	mak
-01-	04-Nov-04	Add GSI 71 information (1.1, 2.1, 2.2, 2.3, 2.4, 2.5, 2.5.1, 2.5.3, 2.6, 2.7.2, 2.8, 2.12, 2.13, 2.14). Update document versions for GDL 90 v2.0 CSA (2.1). Correct FAR reference (2.5.3).		8040	mak
-01A	12-Nov-04	Update document revisions for final submittal (2.1). Correct GSI 71 failure display reference (2.5).		8048	mak
-01B	24-Mar-2006	Clarify this document is ICA (81). Move revision process from §2.15 (81.1), definitions from §1.4 (82.1), and assistance from §2.16 (81.4). Update the list of reference publications and clarify revision (82.1). Detail inspection steps (82.5). Clarify the procedure for periodic check of altitude sources (82.5.3). Add reference to see §2.1 for information on all UAT and GPS antenna types (82.8).		8330	tlm mak
-01C	25-Apr-2007	Revise section to describe document control, move revision & distribution to new section 2.16 (1.1). Add contact information (1.4). Update documents, add GA 35 GA 36 GA 37 (2.1). Include MicroKPM (2.5, 2.5). Change annual to preceding 12 calendar months, clarify display inspection, (2.5). Indicate error indication locations, point to configuration logs (2.6). Use AC 21-40 wording (2.15).		8451	mak

Garmin AT, Inc.		Case Code 0XC16	2345 Turner Road SE, Salem, Oregon USA
Title:	GDL 90 STC Instructions for Continued Airworthiness		Number: 560-0279-01
Prepared By:	Marvin A. Kumley	Date:	26 Feb 2004
Approved By:	Tom Mosher <small>Tom Mosher, GDL 90 Project Manager (approval signature on file)</small>	Date:	26/Feb/2004
Approved By:	Paul Damschen <small>Paul Damschen, Sr. Systems Engineer (approval signature on file)</small>	Date:	2/28/04

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Table of Contents

1	INTRODUCTION	4
1.1	DOCUMENT CONTROL	4
1.2	AIRWORTHINESS LIMITATIONS SECTION	4
1.3	PERMISSION TO USE CERTAIN DOCUMENTS	4
1.4	ASSISTANCE	4
2	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	5
2.1	INTRODUCTION	5
2.2	DESCRIPTION OF ALTERNATION	5
2.3	CONTROL, OPERATING INFORMATION	6
2.4	SERVICING INFORMATION	6
2.5	PERIODIC MAINTENANCE INSTRUCTIONS	6
2.6	TRUBLESHOOTING INFORMATION	8
2.7	REMOVAL AND REPLACEMENT INFORMATION	8
2.8	DIAGRAMS	9
2.9	SPECIAL INSPECTION REQUIREMENTS	9
2.10	APPLICATION OF PROTECTIVE TREATMENTS	9
2.11	DATA RELATIVE TO STRUCTURAL FASTENERS	9
2.12	SPECIAL TANKS	9
2.13	ADDITIONAL INSPECTIONS FOR AIRCRAFT OPERATING UNDER FAR 121/135	9
2.14	OVERHAUL PERIOD	10
2.15	IMPLEMENTATION AND RECORD KEEPING	10
2.16	ICA REVISION & DISTRIBUTION	10

1 Introduction

This document contains Instructions for Continued Airworthiness (ICA) compliant with 14 CFR 23.1529 and Appendix G requirements. The ICA includes information required by the operator to adequately maintain the equipment installed under the GDL 90 UAT System STC. The GDL 90 UAT System includes the GDL 90 UAT and the Micro APM, and may also include the optional GSL 71 UAT Control Panel. The GDL 90 and GSL 71 products have built-in-test features that notify the flight crew in the event of system or unit failure, and the procedures herein augment those built-in-test functions. This document refers to other documents for specific information that is either part of the installation package or an existing part of the aircraft's permanent record.

1.1 Document Control

This document shall be released, archived, and controlled in accordance with the Garmin AT document control system. When this document is revised, refer to Section 2.16 for information on how to gain FAA acceptance or approval and how to notify customers of changes.

1.2 Airworthiness Limitations Section

The airworthiness limitations section is FAA approved and specifies inspections and other maintenance required and under §43.16 and §91.403 of the Federal Aviation Regulations (FAR) unless an alternative program has been FAA approved.

There are no mandatory replacement times for the GDL 90 UAT in this STC installation. There are no mandatory structural inspections associated with this STC.

1.3 Permission to Use Certain Documents

Permission is granted to any corporation or person applying for approval of a Garmin GDL 90 UAT or GSL 71 Control Panel to use and reference appropriate STC documents to accomplish the Instructions for Continued Airworthiness and show compliance with STC engineering data. This permission does not constitute suitability of the documents. It is the responsibility of the applicant to determine the suitability of the documents for the ICA.

1.4 Assistance

Flight Standards Inspectors or the certificate holder's PMI have the required resources to respond to questions regarding this ICA. In addition, the customer may refer questions regarding this equipment and it's installation to the manufacturer, Garmin AT. Garmin AT customer assistance may be contacted during normal business hours via telephone 800-525-6726 or email from the Garmin web site at support.salem@garmin.com.

2 Instructions for Continued Airworthiness

2.1 Introduction

Content, Scope, Purpose and Arrangement:	This document identifies the instruction for Continued Airworthiness for the modification of the aircraft for installation of the Garmin GDL 90 UAT and/or GSL 71 UAT Control Panel.
Applicability:	Applies to aircraft altered by installation of the Garmin GDL 90 UAT system.
Definition of Abbreviations:	AEG – Aircraft Evaluation Group BIT – Built-In Test FSDO – Flight Standards District Office GPS – Global Positioning System ICA – Instructions for Continued Airworthiness LED – Light Emitting Diode MFD – Multi-Function Display PMI – Primary Manufacturing Inspector POI – Primary Operations Inspector STC – Supplemental Type Certificate UAT – Universal Access Transceiver WAAS – Wide Area Augmentation System
Precautions:	N/A, None.
Units of measurement:	N/A, None.
Referenced publications (or later FAA approved revisions):	*560-1049-02 Rev. C GDL 90 Installation Manual *560-0278-01 Rev. D Master Data List *560-0215-04 Rev. C A-41 UAT Antenna Information *560-0253-00 Rev. B A-40 UAT Antenna Information *560-0949-01 Rev. D A-33 GPS Antenna Install Guide *560-5047-00 Rev. F A-34 & GA 35 GPS Antenna Install Guide *190-00438-01 Rev. D GA 36W Antenna Instructions *190-00522-01 Rev. B GA 35A, 36A, 37 Antenna Instr. *190-00846-00 Rev. A GA 35, GA 36, GA 37 Antenna Installation Instructions *560-0410-00 Rev. B GSL 71 Pilot's Guide *560-0411-00 Rev. D GSL 71 Installation Manual 560-7031-0 Rev. – GDL 90 Maintenance Manual Note: The maintenance manual documents is only required for Construction of new aircraft.
Retention:	*This document (or later FAA approved revisions), or the information contained within, should be contained in the permanent aircraft record as part of the ICA. The GDL 90 product CD 140-0063-xx contains the required documents.

2.2 Description of Alteration

Installation of the Garmin GDL 90 UAT Data Link Sensor with UAT antenna, GPS/WAAS antenna, and other system interfaces. The GDL 90 UAT interfaces to the pilot through optional

existing equipment, such as the Garmin AT MX20 Multi-Function Display. The GDL 90 UAT may also interface to the pilot through the optional GSL 71 UAT Control Panel, which may be installed under this STC.

2.3 Control, Operating Information

The GDL 90 UAT does not have a direct pilot interface. If the GDL 90 is interfaced to optional external controllers or display systems, consult the appropriate controller or display User's Guide for system operation and self-test information.

If the optional GSL 71 UAT Control Panel is installed, consult the GSL 71 documents listed in paragraph 2.1 of this document.

Aircraft-specific configuration information for the GDL 90 is stored in the MicroAPM. This information may be accessed using a PC as described in the GDL 90 Installation Manual listed in Section 2.1 of this document.

2.4 Servicing Information

None. In the event of system failure, return the GDL 90 or GSL 71 unit to the manufacturer or an approved repair station.

2.5 Periodic Maintenance Instructions

The GDL 90 UAT and MicroAPM are designed to detect internal failures. A thorough self-test is executed automatically upon application of power, and built-in test is continuously executed. Detected errors are indicated by failure LEDs on the GDL 90, and maintenance is on-condition. If the GDL 90 is interfaced to an optional external controller or MFD, detected errors may also be indicated by annunciation on the interfaced controller or MFD.

Note: The MicroAPM is installed in the wiring harness near the GDL 90 unit.

Operation of the GDL 90 is not permitted unless an inspection as described in this section has been completed within the preceding 12 calendar months. Conduct a visual inspection on the GDL 90 UAT Data Link Sensor and MicroAPM units and its wire harness to insure continued installation integrity:

- a. Inspect the GDL 90 and MicroAPM for security of attachment
- b. Inspect related antennas for proper sealing and attachment
- c. Inspect condition of wiring, routing, and attachment/clamping.

The GSL 71 UAT Control Panel is also designed to detect internal failures. A self-test is executed automatically upon application of power, and built-in test is continuously executed. Detected errors at start-up are indicated by "TEST" "FAIL" on the GSL 71 LED display. Detected errors during use are indicated by "UAT" "FAIL" on the display.

GDL 90 STC Instructions for Continued Airworthiness

Garmin AT, Inc.
2345 Turner Rd SE
Salem, OR 97302

19 September 2007
Part #: 560-0279-01 Rev C

Operation of the GSL 71 is not permitted unless an inspection as described in this section has been completed within the preceding 12 calendar months. Conduct a visual inspection on the GSL 71 UAT Control Panel and its wire harness to insure continued installation integrity:

- a. Inspect the GSL 71 for security of attachment
- b. Inspect all knobs and buttons, and the LED display, for proper legibility
- c. Inspect condition of wiring, routing, and attachment/clamping.

2.5.1 GDL 90 UAT Battery Replacement

The GDL 90 UAT has an internal keep-alive battery that will last about 10 years. The battery is used for retention of internal ram memory data and GPS system information. Regular planned replacement is not necessary. The GDL 90 UAT "maintenance" LED will be lit when replacement is required. The GDL 90 UAT will also send a "low battery" message for display on an optional controller or MFD when replacement is required. Once the low battery message is displayed, the battery should be replaced within 1 to 2 months.

If the battery is not replaced and becomes totally discharged, the GDL 90 UAT will remain fully operational, but the GPS signal acquisition time may be increased. There is no loss of function or accuracy of the GDL 90 UAT with a discharged battery.

The battery must be replaced by the Garmin AT factory repair station or factory authorized repair station. Refer to GDL 90 UAT Maintenance Manual, listed under reference documentation in paragraph 2.1 of this document, for battery replacement instructions.

2.5.2 GSL 71 Cleaning

The GSL 71 front bezel, keypad, and display can be cleaned with a soft cotton cloth dampened with clean water. DO NOT use any chemical cleaning agents. Extreme care must be taken to avoid scratching the surface of the display.

2.5.3 Altitude Encoder Calibration

The pressure altitude source used by the GDL 90 UAT must within the previous 24 months have been tested and inspected and found to be in compliance with Appendix E of 14 CFR 43 ("Altitude System Test and Inspection") Sections (a) - Static pressure system, (b) - Altimeter, and (d) - Records, subject to the following notes:

- 14 CFR 43 Appendix E Section (c) does not apply to ADS-B equipment. Instead, verify that the altimeter data output is correctly provided to the UAT equipment by using one of the following procedures:
 - Use the GDL 90 Maintenance port to verify the ownship pressure altitude data, as discussed in the GDL 90 Installation Manual.
 - If equipped with a GSL 71 UAT Control Panel, the "Pres Alt" display field may be used to verify the altitude data provided by the altitude encoder.
 - The altitude value may be viewed on a UAT ADS-B Traffic display (MX20 or equivalent) that is receiving UAT ADS-B messages from the equipment under

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Page 7 of 10

GDL 90 STC Instructions for Continued Airworthiness

Garmin AT, Inc.
2345 Turner Rd SE
Salem, OR 97302

19 September 2007
Part #: 560-0279-01 Rev C

test. Configure any such display for a baro setting of 29.92 inches, if applicable, so that the display shows the uncorrected pressure altitude.

- If the GDL 90 altitude source is shared with a transponder, and is in compliance with FAR 91.413 (ATC Transponder Tests and Inspections), no additional altitude encoder tests are necessary. Use any of the above methods to verify that the altitude data is provided to the GDL 90.

2.6 Troubleshooting Information

Error indications are displayed on the GSL 71, optional interfaced display/controller, or the GDL 90 LEDs.

If error indications are displayed on the GDL 90 UAT LEDs, consult the Troubleshooting section contained in the GDL 90 UAT Installation Manual listed under reference documentation in paragraph 2.1 of this document. The 'GDL 90 Post-Installation Checkout log' in the aircraft permanent records includes the configuration information for the installation. (See the table at the end of Section 4 in the GDL 90 Installation Manual for a sample log.)

If error indications are shown on the GSL 71 LED display, consult the Troubleshooting section contained in the GSL 71 Installation Manual listed under reference documentation in paragraph 2.1 of this document. The 'GSL 71 Post-Installation Checkout log' in the aircraft permanent records includes the configuration information for the installation. (See the table at the end of Section 3 in the GSL 71 Installation Manual for a sample log.)

2.7 Removal and Replacement Information

2.7.1 GDL 90 UAT

If the GDL 90 UAT unit is removed and reinstalled, verify that the GDL 90 UAT unit power-up self-test sequence is successfully completed and that no failure messages are annunciated on any interfaced controller or MFD.

If the GDL 90 UAT unit is removed for repair and reinstalled, or if the GDL 90 UAT unit is removed and replaced with a different GDL 90 UAT unit, then follow "Equipment Setup and Configuration" procedures contained in the GDL 90 UAT Installation Manual listed in paragraph 2.1 of this document, and verify that the GDL 90 UAT unit power-up self-test sequence is successfully completed and that no failure messages are annunciated on any interfaced controller or MFD.

If any work has been done on the aircraft that could affect the system wiring, antenna cable, or any interconnected equipment, verify that the GDL 90 UAT unit power-up self-test sequence is successfully completed and that no failure messages are annunciated on any interfaced controller or MFD.

Note: There are no special handling requirements for the GDL 90 UAT.

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Page 8 of 10

GDL 90 STC Instructions for Continued Airworthiness

Garmin AT, Inc.
2345 Turner Rd SE
Salem, OR 97302
19 September 2007
Part #: 560-0279-01 Rev C

2.7.2 GSL 71

If the GSL 71 unit is removed and reinstalled, verify that the GSL 71 unit power-up self-test sequence is successfully completed and that no failure messages are annunciated on any interfaced MFD.

If the GSL 71 unit is removed for repair and reinstalled, then follow 'Post-Installation Checkout' procedures contained in the GSL 71 Installation Manual listed in paragraph 2.1 of this document, and verify that the GSL 71 unit power-up self-test sequence is successfully completed and that no failure messages are annunciated on any interfaced MFD.

If any work has been done on the aircraft that could affect the system wiring or any interconnected equipment, verify that the GSL 71 unit power-up self-test sequence is successfully completed and that no failure messages are annunciated on any interfaced MFD.

Note: There are no special handling requirements for the GSL 71.

2.8 Diagrams

Refer to the GDL 90 UAT Installation Manual and/or the GSL 71 Installation Manual (both listed under reference documentation in paragraph 2.1 of this document) for drawings applicable to this installation. The GPS antenna is located on top of the fuselage. See the GPS antenna installation guide for the type of antenna installed (GPS antenna guides are listed under reference document paragraph 2.1 of this document). The UAT antennas are located on top and/or bottom of the fuselage. See the UAT antenna installation guide for the type of UAT antenna installed (listed under reference document paragraph 2.1 of this document).

2.9 Special Inspection Requirements

None, N/A.

2.10 Application of Protective Treatments

None, N/A.

2.11 Data Relative to Structural Fasteners

None, N/A.

2.12 Special Tools

No special tools are required for system checkout. See GDL 90 UAT or GSL 71 Control Panel Installation Manuals listed under reference documentation in paragraph 2.1 of this document.

2.13 Additional Instructions for Aircraft Operating under FAR 121/135

1. Aircraft Electrical Loads: Perform aircraft electrical system load analysis. See GDL 90 UAT and/or GSL 71 UAT Control Panel Installation Manuals listed in Section 2.1 of this document.

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Page 9 of 10

GDL 90 STC Instructions for Continued Airworthiness

Garmin AT, Inc.
2345 Turner Rd SE
Salem, OR 97302
19 September 2007
Part #: 560-0279-01 Rev C

2. Methods of balancing flight controls: N/A.

3. Special Repair Methods applicable to the airplane: See certificate holder's General Maintenance Manual for instructions.

2.14 Overhaul Period

The system does not require overhaul at a specific time period. Power on self-test and continuous BIT will monitor the health of the GDL 90 UAT and/or GSL 71 UAT Control Panel. If the unit indicates an internal failure, the unit may be removed and replaced.

2.15 Implementation and Record Keeping

Modification of an aircraft by this Supplemental Type Certificate obligates the aircraft operator to include the maintenance information provided by this document in the operator's aircraft maintenance manual and/or the operator's aircraft scheduled maintenance program.

2.16 ICA Revision & Distribution

ICA revisions must be submitted for ACO approval. The ACO will obtain AEG acceptance, and issue evidence of approval. After ACO approval, Garmin AT will release the revised ICA for customer use, and provide any required notification of the revision.

The latest revision of this document is distributed on the GDL 90 Product CD (P/N 140-0063-xxx), shipped with each new GDL 90 or GSL 71 unit. The latest revision is also available on the Garmin website (garmin.com). A Garmin Service Letter, describing ICA revision, will be sent to dealers and/or GDL 90 or GSL 71 owners of record if revision is determined to be significant.

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Page 10 of 10

Switch 8130

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

3372001		116580	
AUTHORIZED RELEASE CERTIFICATE			
FAA/REG-137 (REV. 12/13)			
Epsilon Aircraft Company, Inc. 5800 E. Parkway, #102119, S.E. 57218			
1	SWITCH	33483-1-1	N/A
2			N/A
3			NEW
AIRBUS/FAA APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.			
FORM 8031A			
QAA-104525-CE			
12/18/2012			
KATHY WOODSON			
12/18/2012			
Epsilon Aircraft Company, Inc. 5800 E. Parkway, #102119, S.E. 57218			
1	SWITCH	1571771-1	N/A
2			N/A
3			NEW
AIRBUS/FAA APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.			
FORM 8031A			
QAA-104525-CE			
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1	SWITCH	1571771-1	N/A
2			N/A
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FORM 8031A			
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12/18/2012			
KATHY WOODSON			
12/18/2012			
Epsilon Aircraft Company, Inc. 5800 E. Parkway, #102119, S.E. 57218			

3372001 P/N: 33483-1-1 QTY: 1
ORIG: 3372001 P/N: 33483-1-1 QTY: 1
DESC: SWITCH

1571771 P/N: 1571771-1 QTY: 1
ORIG: 1571771 P/N: 1571771-1 QTY: 1
DESC: SWITCH PRES

AUTHORIZED RELEASE CERTIFICATE

1. Approving Authority: **FAA/US/ASST/AVIATION/AVIATION SAFETY/AVIATION SAFETY/AVIATION SAFETY/AVIATION SAFETY**
 2. Agency: **FAA/US/ASST/AVIATION/AVIATION SAFETY/AVIATION SAFETY/AVIATION SAFETY/AVIATION SAFETY**
 3. Special Handling Ref. No.: **SOP # 1947230**
 4. Organization: **FAA/US/ASST/AVIATION/AVIATION SAFETY/AVIATION SAFETY/AVIATION SAFETY/AVIATION SAFETY**
 5. Work Order Contract Issue Number: **SOP # 1947230**
 6. Item: **1. Disposition**
 7. Part Number: **01-1214-00**
 8. Quantity: **1**
 9. Serial Batch Number: **252654**
 10. Remarks: **1. Disposition**
 11. Status Work Order: **OPEN/ISSUED**

12. Status Work Order: **OPEN/ISSUED**

13. Remarks: **1. Disposition**

14. Certificate the items identified above were manufactured in conformity to:
 Approved design data and air instructions for sale remain
 Non-approved design data specified in block 11
 Other regulations specified in block 13

15. Authorized Signature: _____
 16. Date (M/D/YY): _____

17. Name (Type or Print): _____
 18. Title (Type or Print): _____

19. Signature: _____
 20. Title (Type or Print): _____

21. Approved Signature No.: **00000000**
 22. Date (M/D/YY): **04/21/2012**

23. Approved Signature No.: _____
 24. Date (M/D/YY): _____

Verificaiton Responsibilities

It is important to understand that the evidence of this Document does not automatically constitute authority to install the part component assembly. Where the user/installer performs work in accordance with the stated regulations of the country specified in block 1, it is essential that the user/installer be qualified to perform such work in accordance with the regulations of the country specified in block 1. It is essential that the user/installer be qualified to perform such work in accordance with the regulations of the country specified in block 1. It is essential that the user/installer be qualified to perform such work in accordance with the regulations of the country specified in block 1.

* Dealer must maintain a record of this certificate with applicable technical data.

GARMIN FliteLevel Extended Warranty™ Application

Aircraft Owner's Information

Owner's Name: Roger Curtis
 Business Name if applicable: Jeep Aviation LLC
 Address: 4 ENGLEWOOD ST
 City: DENVER
 State/Province: COLORADO
 Zip Code/Postal Code: 80231
 Phone Number: 303-767-0997
 Email Address: rc@jeepaviation.com

Aircraft Information

Aircraft Manufacturer: Cessna
 Aircraft Model: C-172S
 Manufactured Year: 2008
 Original Warranty Start Date: NOV 23 2008
 Registration Number: N172EV
 Aircraft Serial Number: 172S10776
 Total Tach Time Calculation: 3 X 400 = 1200
 (Total AIC Warranty Years X 400)
 FliteLevel Item Number*: EXW172-30
 *Attach itemized Purchase Order with application.

Dealer Information

Dealer's Name: Levin Flight Aviation
 City/State/Zip: 425 BROADWAY RD 81025
 Phone Number: 970-633-0450
 Email Address: lewin@lewinflight.com

I have read and agree to the TERMS & CONDITIONS Garmin FliteLevel Extended Warranty™: _____
 Owner's Signature _____ Date: NOV 21 2010

I have read and agree to the TERMS & CONDITIONS Garmin FliteLevel Extended Warranty™: _____
 Dealer's Signature _____ Date: NOV 21 2010

White Copy - Garmin's Copy
 Pink Copy - Dealer's Copy
 Yellow Copy - Owner's Copy

M02-10200-00 Rev A

Plug Button S1093-1

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

FORM 101-1 (REV. 10-1-77) FEDERAL BUREAU OF INVESTIGATION, DEPARTMENT OF JUSTICE
PARTIAL EXPORT CONTROL LISTING - PARTS, ACCESSORIES, AND COMPONENTS

2409018

Export Control Classification Number: 925E63

Exporting Company: Cessna Aircraft Company
Cessna Aircraft Division, Dept. 700
5800 E. Pauline, Wichita, KS 67218

Part Number: 2 PLUG BUTT(S1093-1) N/A 300 N/A 800

REWORK/REPAIR APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.

FORM 101-1 (REV. 10-1-77)

Exporting Company: Cessna Aircraft Company
Cessna Aircraft Division, Dept. 700
5800 E. Pauline, Wichita, KS 67218

Part Number: 2 PLUG BUTT(S1093-1) N/A 300 N/A 800

REWORK/REPAIR APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.


THOMAS F. WYEC, SGMF M1/25/2040

101-1 (REV. 10-1-77)

Gasket B100142-1


[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

Approving Civil Aviation Authority		AUTHORIZED RELEASE CERTIFICATE		Form Number	
FAA / INTSD STATES		FAA FORM #1015, AIRWORTHINESS APPROVAL TAG		4359198	
Issued to Cessna Aircraft Company (PCA) Cessna Parts Distribution Dept. 702 5800 E. Benton, Wichita, KS 67218				1801325	
Part Name GASKET B100142-1				3 N/A	
Part Status New					
AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.					
Lot/Batch # 3013				POM # 1411	
<input checked="" type="checkbox"/> Approved for use in accordance with the conditions of the certificate. <input type="checkbox"/> Not approved for use in accordance with the conditions of the certificate.					
The Issuing Authority		The Approving Authority		The Approving Authority	
Don P. Hacy		Don P. Hacy		Don P. Hacy	
24/SEP/2014		24/SEP/2014		24/SEP/2014	
This document is controlled and its release is limited to the conditions of the certificate. It is not to be used for any other purpose. It is the responsibility of the holder to ensure that the conditions of the certificate are met. It is the responsibility of the holder to ensure that the conditions of the certificate are met. It is the responsibility of the holder to ensure that the conditions of the certificate are met.					

1. DIRECTION GENERALE DE L'AERONAUTIQUE FRANÇAISE		2. AUTHORISED RELEASE CERTIFICATE Certificat Libération Autorisé EASA FORM 1 Formulaire 1 de l'EASA			3. Form Issuing Number N° de mise en service 10198822 / NNE / N / E	
4. Designation Type and 2-4 digits Nom et numéro de l'appareil		 MICHELIN L.P.V. ESOND CERNICOT FERRAND CEREX 9 FRANCE			5. Mark Code / Code et Marque Bouton / Bouton 0258S00320	
6. Item / Item	7. Character / Description	8. Part No. / N° de pièce	9. Qty. / Qté	10. Serial No. / N° série	11. Status / Statut / Tranche	
N/A	6.00-6/6/120	07-1314-0	1	0258S00320	NEW	
12. Remarks / Remarques		13. Certificate has been issued according to an approved computer generated signature procedure Ce document a été émis selon une procédure approuvée de signature électronique				
13a. Certifier that the listed item(s) have been manufactured in conformity to: Certifier que les éléments énumérés ci-dessous ont été fabriqués conformément aux : <input type="checkbox"/> standard of conception approved et sous le statut de fabricant en France actuelle <input type="checkbox"/> standard of conception non approved et/ou fabriqué dans le cas 12		13b. <input type="checkbox"/> Part 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000				
13b. Authorized Signature Signature autorisée		13c. Approval/Authorisation Number N° de certification		13d. Date (dd/mm/yyyy) Date (dd/mm/aaaa)		
THITI TEMET Quality-Engineer QUALITE- MO 05 AMBROUARD		FR 21 (G.0100)		22 Sep 2010		
14a. Part 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		14c. Date (dd/mm/yyyy) Date (dd/mm/aaaa)				
14a. Authorized Signature Signature autorisée		14b. Approval/Authorisation Number N° de certification		14c. Date (dd/mm/yyyy) Date (dd/mm/aaaa)		

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

1. Organisation Name and Address DIRECTION GENERALE DE L'AVIATION CIVILE FRANCE		2. AUTHORISED RELEASE CERTIFICATE Certificat Libération Autorisé EASA FORM 1 Formulaire 1 de TERASA		3. Page 11 / 98(12) / NKE / N/E
4. Organisation Name and Address Name of Address of Organisation: MICHELIN L.P.V. 83040 CLERMONT-FERRAND CEDEX 9 FRANCE		5. Work Order / Code and / or Serial No. / Part No. / 1090S00316		
6. Item / Item	7. Description / Description 6.00-6/6/120	8. Part No. / P/N of Make 0703314-0	9. Qty / Qty	10. Serial No. / P/n make 1090S00316
11. Name / Nom		12. Part No. / P/n make NEW	13. Serial No. / P/n make	14. Date (dd mm yyyy) Date @ mm mm 01 Apr 2011
12. Remarks / Remarques REVISION 1000248 1090S00316				
13a. Certified that the items identified above were manufactured in conformity to: A. <input checked="" type="checkbox"/> Certificate of approval submitted by the applicant B. <input type="checkbox"/> Certificate of approval submitted by the applicant C. <input type="checkbox"/> Certificate of approval submitted by the applicant D. <input type="checkbox"/> Certificate of approval submitted by the applicant				
13b. Approved/Authorisation Number / Nom / Numéro FR21(01)100				
13c. Date (dd mm yyyy) Date @ mm mm 01 Apr 2011				
14a. <input type="checkbox"/> Part 145 approved by Service / Autre réglementation prévue en la partie 12 Certificate of approval submitted by the applicant in accordance with Part 145 and is in respect of that work over the terms set out in the certificate of approval submitted by the applicant 14b. <input type="checkbox"/> Part 145 approved by Service / Autre réglementation prévue en la partie 12 Certificate of approval submitted by the applicant in accordance with Part 145 and is in respect of that work over the terms set out in the certificate of approval submitted by the applicant 14c. <input type="checkbox"/> Part 145 approved by Service / Autre réglementation prévue en la partie 12 Certificate of approval submitted by the applicant in accordance with Part 145 and is in respect of that work over the terms set out in the certificate of approval submitted by the applicant				

1. Approving National Authority FAA/UNTHED STATES		2. System Tracking Ref. No. S O # 1034556	
AUTHORIZED RELEASE CERTIFICATE			
PAA Form 8190.3, AIRWORTHINESS APPROVAL TAG			
4. Operator: GARDNER International 1200 E 151st Drive, KS 66062	5. Work Order Control/Issue Number: M O Z 1034556		
6. Item: 7. Description: 8. Part Number: 9. Dispatch: * 10. Quantity: 11. Serial/Issue Number: 12. Status/Work: 1. GIA63W 0110105-00 N/A 1 68500179 OVERHAULED			
13. REMARKS: This unit is newly Overhauled. It has been analyzed, recorded, tested, and conforms to the newly Overhauled process set forth by Garmin. Overhaul subject for this unit will be included using the approved aircraft system software once the unit is installed in the aircraft in order to complete the return to service process. Current status of this unit is as follows: This aircraft has the work specified in Block 13/17 and was carried out in accordance with EASA Part-CAT and subject to the work the completed format for return to service and EASA Form 1487 Approval Number EASA 94451514. No work was performed on this unit and data to meet the requirements for the maintenance manual per EASA Form 1487 and EASA Form 6613/2006. This unit complies with Model 1.			
14. Confirm the item identified above were manufactured in conformity with: <input type="checkbox"/> Approved design data and are in conformity with the applicable Federal Regulations. <input type="checkbox"/> Non-approved design data specified in Block 13			
15. Approving Signature: N / A		16. Approved/Authorizations No.: N / A	
17. Name (Typed or Printed): N / A		18. Date (Month/Day/Year): N / A	
19. Additional Signature: 			
20. Name (Typed or Printed): Hong Tran		21. Approval/Authorization No.: G0085837	
22. Date (Month/Day/Year): Aug 13 2009			
Key/Insulator Responsibilities			
It is important to understand that the existence of this document does not automatically constitute authority to install the performance assembly. When the non-routine performance work in accordance with the national regulations of an aeronautical authority is different than the aeronautical authority of the country specified in Block 1, it is essential that the non-routine ensure that their aeronautical authority accepts performance/assembly data from the Aeronautical Authority of the country specified in Block 1 and 19 and 19.6 not contain mandatory certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the manufacturer before the aircraft may be flown.			

PAA Form 8190.3 (9-04-03) Copyright General Aviation Maintenance Inc. Form 007-0007-09 Rev. B *Member must cross-check eligibility with applicable technical data

1. Aircraft		2. Owner	
Make Cessna	Model 172B	Name (As shown on registration certificate) Air Care Inc	Address (As shown on registration certificate) 7900 Air Care Drive Elin City, NC 27822-8703
Serial No. 172B10776	Nationality and Registration Mark USA R6330X		
3. For FAA Use Only			
4. Unit Identification		5. Type	
Unit	Make	Model	Serial No.
AIRFRAME	(As described in item 1 above)		Repair
POWERPLANT			Alteration
PROPELLER			
APPLIANCE	Type		
	Manufacturer		
A. Agency's Name and Address		6. Conformity Statement	
AIR CARE, INC. 7900 Air Care Drive Elin City, NC 27822		B. Kind of Agency	
		<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	
		C. Certificate No. ACOR030C	
D. I certify that the repair and/or alteration made to the unit identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
Date September 26, 2008		Signature of Authorized Individual Don Morrel	
7. Approval for Return To Service			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA Fit Standards Inspector	Manufacturer	Inspection Authorization
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada, Airworthiness Group
Date of Approval or Rejection	9/26/08	Certificate or Designation No. ACOR030C	Signature of Authorized Individual Don Morrel

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

- Installed Garmin GDL90 UAT data link sensor system I/A/W Garmin installation manual no. 560-1049-02 and STC SA02217AK.
- The GDL90 is integrated into the Garmin G1000 Avionics suite and is an optional system within the G1000 system.
- The systems were configured per Cessna GDL90 configuration procedure and Garmin GDL90 installation manual.
- Operation of the GDL90 system is detailed in the G1000 integrated flight deck pilots guide no. 190-00498-02 and cockpit reference guide no. 190-00384-08.
- The installation was done I/A/W applicable paragraphs of A.C. 43.13-1B and .2A.
- No electromagnetic interference to existing equipment was found during operational tests.
- The aircraft weight and balance and equipment list were amended.
- Instructions for continued airworthiness are outlined in Garmin manual no. 560-0279-01.

END

□ ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE: 1977-771-021/344

Air Care, Inc. Revised Weight and Balance (Computed)

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

AIR CARE, INC.
P.O. BOX 7668
ROCKY MOUNT, N.C. 27804
FAA APPROVED R/S ACORO30C

ADDITIONAL EQUIPMENT LIST / REVISED WEIGHT AND BALANCE (COMPUTED)

REG NO:	6330X	DATE:	09/26/08
A/C MAKE:	CRSSNA	TACH:	74
A/C MODEL:	172S	WORK ORDER #:	AS831
A/C S/N:	172S10776	SUPERCEDED DATE:	09/26/08

	WEIGHT	ARM	MOMENT
PREVIOUS A/C EMPTY	1733.70	41.48	71907.00

REMOVED ITEMS

INSTALLED ITEMS

GDL90 PROCESSOR	6.20	152.00	942.40
GPS ANTENNA	0.50	58.00	29.00
UAT TOP ANTENNA	0.50	43.00	20.50
UAT BOTTOM ANTENNA	0.50	134.00	67.00

NEW A/C EMPTY	1741.40	41.90	72965.90
---------------	---------	-------	----------

NEW A/C R.N. :	1741.40
NEW A/C C.G. :	41.90
NEW USEFUL LOAD :	816.60







DON MORREL

ABOVE INSTALLATION PERFORMED
IN ACCORDANCE WITH MANUFACTURERS
SPECIFICATIONS AND IS APPROVED
FOR RETURN TO SERVICE

AUTHORIZED SIGNATURE
AIR CARE, INC.
P.O. BOX 7668
ROCKY MOUNT, N.C. 27804
FAA APPROVED R/S ACORO30C

COPY

— ORIGINAL IN POH —

 U.S. Department of Transportation Federal Aviation Administration	ASSIGNMENT OF SPECIAL REGISTRATION NUMBERS	
	Aircraft Make and Model CESSNA 172S	Special Registration Number N172RV
Serial Number 172S10776	Present Registration Number N6330X	Issue Date Oct 15, 2009
ICAO AIRCRAFT ADDRESS CODE FOR N172RV - 50221046 JENTY AVIATION LLC 4 STONEBRIDGE CT DENVILLE NJ 07834-1626 		This is your authority to change the United States registration number on the above described aircraft to the special registration number shown. Carry duplicate of this form in the aircraft together with the old registration certificate as interim authority to operate the aircraft pending receipt of revised certificate of registration. Obtain a revised certificate of airworthiness from your nearest Flight Standards District Office. The latest FAA Form 8130-6, Application For Airworthiness on file is dated: Jul 28, 2008 The airworthiness classification and category: STD NORMUT
INSTRUCTIONS: SIGN AND RETURN THE ORIGINAL of this form to the Civil Aviation Registry, AFS-750, within 5 days after the special registration number is placed on the aircraft. A revised certificate will then be issued. The authority to use the special number expires: Oct 15, 2010		
CERTIFICATION: I certify that the special registration number was placed on the aircraft described above. Signature of Owner: 	RETURN FORM TO: Civil Aviation Registry, AFS-750 P.O. Box 25504 Oklahoma City, Oklahoma 73125-0504	
Title of Owner: <i>owner - sale number</i>		
Date Placed on Aircraft: <i>11-20-2009</i> 		
AC FORM 8050-64 (5/2005) Supersedes Previous Edition		

FORM APPROVED
OMB No. 2120-0040

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION AND ENFORCEMENT CENTER
AIRCRAFT REGISTRATION APPLICATION

CERT. ISSUE DATE

UNITED STATES: **N 6330X**

REGISTRATION NUMBER: **N 6330X**

AIRCRAFT MANUFACTURER'S MODEL: **Cessna 172S**

AIRCRAFT SERIAL No: **172S10776**

FOR FAA USE ONLY

TYPE OF REGISTRATION (Check one box)
 1. Individual 2. Partnership 3. Corporation 4. Co-owner 5. Gov't 6. Non-Owner Operator

NAME OF APPLICANT (Person(s) shown on evidence of ownership. If individual, give full name, last name, and middle initial)
Jenty Aviation, LLC

TELEPHONE NUMBER: **973 586 - 3164**

ADDRESS (Permanent mailing address for the applicant based on F.O. DCS is used if F.O. DCS address must also be shown)
 Number and street: **4 Stonebridge Ct.**

Read State: _____ PO Box: _____
 CITY: **Denver** STATE: **CO** ZIP CODE: **80234**

CHECK HERE IF YOU ARE ONLY REPORTING A CHANGE OF ADDRESS
ATTENTION! Read the following statement before signing this application.
 This portion **MUST** be completed.

A false or dishonest answer to any question is prohibited by law and is punishable by fine and/or imprisonment.
 (33 U.S.C. Title 18, Sec. 1075)

CERTIFICATION

I/WE CERTIFY:

(1) That the above aircraft is owned by the undersigned applicant, who is a citizen including corporations of the United States.
 (For voting trust, give name of trustee) _____

CHECK ONE ALL APPLICANTS:

A resident alien, with legal registration (Form 1-101 or Form 1-030) No. _____

A non-citizen corporation, partnership and foreign business under the laws of (state) _____ and has principal or general office in the United States. (Persons of foreign birth are ineligible for registration if _____)

(2) That the aircraft is not registered under the laws of any foreign country and

(3) That legal evidence of ownership is attached or has been filed with the Federal Aviation Administration.


NOTE: If requested for equipment all applicants must sign. Use reverse side if necessary.

TYPE OR PRINT NAME BELOW	SIGNATURE	TITLE	DATE
Applicant	<i>Ron Vandervalk</i>	Member	8/26/09
Applicant	Ron Vandervalk		
Applicant			

NOTE: Filing receipt of the Certificate of Aircraft Registration, the aircraft may be operated for a period not in excess of 90 days, during which time the FAA copy of this application must be carried in the aircraft.

AC Form 8050-1 (5/02) (2002-00-628-6007)

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

 <p>Lincoln Park Aviation Repair Station No. LKPR101K 425 Beaverbrook Road Lincoln Park, NJ 07035 Phone: 973-533-0490 Fax: 973-872-6256 Date: 3/3/2011, 8:32 AM</p>	<p>CUSTOMER INFORMATION</p> <p>Nova Aviation 1 Airport Road Suite 200 Morristown, NJ 07960 Reg. No: 1728V Cessna 172S Current A/C TT: 526.6, Tach: 505.6 A/C Serial: 10779</p>
<p>Customer Invoice Work Order: 9330</p>	

Item: 1 - Airworthy Airframe (Warranty: Cessna)

Discrepancy	Hours	Subtotal
#2 GIA 63 W INOP. #2 GPS, #2 NAV #COMM INOP.	3.70	0.00

Corrective Action
 TROUBLE SHOT: REMOVED #2 GIA 63W, S/N 88507281, INSTALLED S/N 88505180. ALL WORK PERFORMED IAW GARMIN MANUAL SECTION 4.3.1. LOADED SOFTWARE AS REQUIRED.

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1		011-81105-00	GIA 63W		0.00	0.00

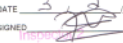

Labor: \$0.00 Parts: \$0.00 Shipping: \$0.00 Item Subtotal: \$0.00

Additional Charges							Subtotal
Pilot Services	Tire Disposal	EPA Charge	Oil Analysis	Shop Supplies	Fuel	Misc.	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Labor Summary		Total Labor:
Shop Labor: \$0.00	Outside Repair: \$0.00	\$0.00
		Total Parts: \$0.00
		Total Shipping: \$0.00

Taxes:		Additional Charges:
Shop Labor, OSR Labor, Misc. Charges, Oil Analysis, Shop Parts, OSR Parts, Shop Supplies		\$0.00
	Tax:	\$0.00
	Amount Due:	\$0.00
	Deposit:	\$0.00
	Balance Due:	\$0.00

Important Information
 THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER LISTED ABOVE.

DATE: 3-3-11
 SIGNED:  (signature of authorized representative)
 Nova Aviation or Authorized Representative:  Date: 3-3-11

The Pennsylvania State University Airport W/O RA16218

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

The Pennsylvania State University
University Park Airport Page # 1 of 1
FAA CRS # OU1R387K DISCREPANCY SHEET
FORM #103

PSU Work Order # RA16218
Customer Job # _____

Aircraft # <u>172RV</u>	AC Reg # <u>472810776</u>	AC Type <u>6197</u>	AC Make <u>Cessna</u>	AC Model <u>172</u>
Item # <u>1</u>	W/O # <u>6197</u>	Corrective Action <u>Gained access to Pilot</u>		
Discrepancy <u>Pilot Push To Talk switch Engage</u>		Discrepancy <u>Push To Talk switch checked switch with multimeter. Found switch open. Replaced switch with new. Performed radio check with tower and good.</u>		
PSN/CRS # <u>82870-1</u>		PSN/CRS # <u>82870-1</u>		
SN/CRS # _____	Discrepancy By <u>AW</u>	SN/CRS # _____	Corrected By <u>AW</u>	Inspected By <u>AW</u>
Date Discovered _____	DATE _____	Date Corrected _____	DATE _____	Date Inspected _____
SN/CRS # _____	Discrepancy By _____	SN/CRS # _____	Corrected By _____	Inspected By _____
Date Discovered _____	DATE _____	Date Corrected _____	DATE _____	Date Inspected _____
SN/CRS # _____	Discrepancy By _____	SN/CRS # _____	Corrected By _____	Inspected By _____
Date Discovered _____	DATE _____	Date Corrected _____	DATE _____	Date Inspected _____
SN/CRS # _____	Discrepancy By _____	SN/CRS # _____	Corrected By _____	Inspected By _____
Date Discovered _____	DATE _____	Date Corrected _____	DATE _____	Date Inspected _____

WHITE COPY CUSTOMER CANARY MAINTENANCE PINK ACCOUNTING

Expiration Date 01/30/2017

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



See how? I pilot your beacon online at: www.beaconregistration.noaa.gov

Official 406 MHz ELT Registration Form

Mail or Fax to:
NOAA/SARSAT
NSOP, E-SP053
1315 East West Hwy
Silver Spring, MD 20910
Fax No. 301-617-4565

ELT Information

Beacon ID (Unique Identifier Number) **2DC843A93AFFBFF** (15 digit character ID provided by ELT manufacturer)

ELT Manufacturer Adax Model No. ME 806 Decal Expiration Date 01/30/2017

Owner/Operator Information

Name Jenty Aviation, LLC Telephone (973) 5833364 Home Work Cell Fax Other
Mailing Address 4 Stonebridge Ct. (973) 5833633 Home Work Cell Fax Other
City Denville (973) 5833633 Home Work Cell Fax Other
State/Province NJ (973) 5400106 Home Work Cell Fax Other
Zip (Postal Code) 07834 Home Work Cell Fax Other
Country USA
E-mail javy@belstatamic.com

Aircraft Information

Registration Number N322EV Survival Equipment
Usage Government Military Government Non-military Deployable (Describe and List Quantity)
 Commercial Non-commercial Fixed (Describe and List Quantity)
Type Single-engine Propeller Single-engine Jet Multi-engine Propeller Multi-engine Jet Helicopter Principal Airport MMU State: NJ
 Other _____ City: Morristown
Seating Capacity 4 Radio Equipment (Check all that apply)
Color White/Orange VHF MF HF SSB
Aircraft Manufacturer Cessna Aircraft Other _____
Model 172S Skyhawk
Additional Data _____

Emergency Contact Information (Please indicate someone other than the owner)

Name of Primary 24-Hour Emergency Contact: Angel Cortes Name of Alternate 24-Hour Emergency Contact: Melaine VanderValk
(973) 7690557 Home Work Cell Fax Other (973) 586-3363 Home Work Cell Fax Other
(973) 5400106 Home Work Cell Fax Other (201) 572-9421 Home Work Cell Fax Other
Home Work Cell Fax Other Home Work Cell Fax Other

If you have any questions about this form or with ELT registration in general, please call 1-888-212-SAVE or 301-617-4515. OMB Aest-0648-0293
For information on the U.S. Search and Rescue Satellite-Aided Tracking system, please visit www.sarsat.noaa.gov esp. 30A-X2014



SARSAT Beacon Registration
NOAA/SARSAT
NSOP, E-SP053
1315 East West Hwy
Silver Spring MD 20910

February 2, 2015

Jenty Aviation, LLC,
4 Stonebridge Ct.
Denville NJ 07834

Beacon ID:
2DC843A93AFFBFF

Dear Jenty Aviation, LLC,

Thank you for submitting an update for your 406 MHz emergency beacon registration, renewing your registration, or requesting a replacement decal.

A 15 character Unique Identifier Number (UIN) has been programmed into your 406 MHz emergency beacon by the manufacturer or an installer. The UIN is part of the message transmitted by the beacon when activated. The UIN is also referred to as the Beacon ID in NOAA's Registration Database. Please verify that the 15 character Beacon ID registered with NOAA is identical to the 15 character manufacturer-installer programmed UIN. The Beacon ID registered with NOAA is found on the upper right hand corner of this letter and the attached decal. Decals are no longer provided for emergency locator transmitters (ELTs). For most beacons the manufacturer-installer programmed UIN can be found on an exterior or an interior surface of the beacon itself. It is also on the documentation provided by the manufacturer or installer. Please contact the manufacturer or installer if you cannot find or determine the manufacturer-installer programmed UIN. If the Beacon ID registered with NOAA is not identical to the manufacturer-installer UIN, please contact us immediately at one of the phone numbers listed below.

In the event that your beacon is activated the information you provided will be appended to the distress message transmitted to a Rescue Coordination Center. This information is critical for Search and Rescue (SAR) forces locating you, your vessel, or your aircraft in a timely manner and could possibly save your life. This letter is the proof-of-registration for your beacon.

The registration information you have provided has been entered into our database and a printout of this information is enclosed. Log on to your beacon registration account to review and/or update your registration information at: www.beaconregistration.noaa.gov. Ensure that all your information is correct, especially the emergency point of contact information. If you do not have internet access, you may also make the changes on the enclosed printout and return it to us at the address shown below or by fax at: 301-617-4565.

This letter is the proof-of-registration for your beacon. For all beacons except ELTs, a decal is enclosed that should be affixed to the registered beacon. Decals are no longer provided for Emergency Locator Transmitters (ELTs). It is recommended that you affix the decal to the beacon in such a way that it is visible when the beacon is properly mounted. Be sure the area is clean and dry when affixing the decal. It will take 48 hours for the decal adhesive to properly bond. A template is provided to protect the decal from exposure to the weather. Place this template over your decal.

Registration of 406 MHz emergency beacons is mandatory and must be renewed every two years. We will email, mail or fax you a reminder approximately two months prior to the expiration of your beacon registration.

Please read the beacon owner's manual carefully for instructions on proper installation, operation, maintenance, testing, removal, storage, and disposal of your beacon. Following the instructions in the owner's manual ensures that the beacon works properly when needed and eliminates false alerts which waste valuable Search and Rescue resources. If you have questions about information in the owner's manual please contact the beacon manufacturer.

The expiration date on the NOAA beacon registration decal does not refer to the beacon battery or hydrostatic release expiration. If you have any questions regarding beacon registration please contact the NOAA Beacon Registration team at beacon.registration@noaa.gov (please write "Beacon Registration" in the subject line), or call (888) 212-7283 or (301) 617-4515.

SARSAT Beacon Registration
NSOP, E-SP053
1315 East West Hwy
Silver Spring MD 20910

Tel: 301-617-4515
Tel: 1-888-212-SAVE (7283)
Fax: 301-617-4565

Sincerely,

Christopher O' Connors,
SARSAT Program Manager

Expiration Date 03/29/2015

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



Save time! Update your beacon online at: www.beaconregistration.noaa.gov

Mail or Fax to:
NOAA-SARSAT
NSOP, E/SPO3
1315 East West Hwy
Silver Spring, MD 20910
Fax No. 301-817-4565

Official 406 MHz ELT Registration Form

ELT Information

Beacon ID (Unique Identifier Number) **2DC843A93A FFBFF** (15 digit character ID provided by ELT manufacturer)

ELT Manufacturer **Atis** Model No. **ME 406** Decal Expiration Date **03/29/2015**

Owner/Operator Information

Name **Jenty Aviation, LLC** Telephone (973) 2833364
Mailing Address **4 Stonebridge Ct.** (973) 2833363 Home Work Cell Fax Other
City **Denville** (973) 2833363 Home Work Cell Fax Other
State/Province **NJ** (973) 2833363 Home Work Cell Fax Other
Zip (Postal Code) **07834** Home Work Cell Fax Other
Country **USA**
E-mail **jon@jentalternative.net**

Aircraft Information

Registration Number **N172BY** Survival Equipment
Usage Government Military Government Non-military Deployable (Describe and List Quantity)
 Commercial Non-commercial Fixed (Describe and List Quantity)
Type Single-engine Propeller Single-engine Jet Principal Airport **MMU** State **NJ**
 Multi-engine Propeller Multi-engine Jet City **Morristown**
 Helicopter
Seating Capacity **4** Radio Equipment (Check all that apply)
Color **White/Orange** VHF MF HF SSR
 Other _____
Aircraft Manufacturer **Cessna Aircraft**
Model **172S Skyhawk**
Additional Data _____

Emergency Contact Information (Please indicate someone other than the owner)

Name of Primary 24-Hour Emergency Contact: **Angel Cortes** (973) 7690357 Home Work Cell Fax Other
(973) 5400106 Home Work Cell Fax Other
Home Work Cell Fax Other
Name of Alternate 24-Hour Emergency Contact: **Melanie VanderVal** (973) 586-3363 Home Work Cell Fax Other
(201) 572-9421 Home Work Cell Fax Other
Home Work Cell Fax Other

If you have any questions about this form or with ELT registration in general, please call 1-888-212-SAVE or 301-817-4515. OMB Auth: 0648-0293 / For information on the U.S. Search and Rescue Satellite-Aided Tracking system, please visit www.sarat.noaa.gov esp. 30A057001-4



SARSAT Beacon Registration
NOAA-SARSAT
NSOP, E/SPO3
1315 East West Hwy
Silver Spring MD 20910
April 1, 2013

Jenty Aviation, LLC.
4 Stonebridge Ct.
Denville NJ 07834
Beacon ID:
2DC843A93A FFBFF

Dear Jenty Aviation, LLC,
Thank you for submitting an update for your 406 MHz emergency beacon registration, renewing your registration, or requesting a replacement decal.
A 15 character Unique Identifier Number (UIN) has been programmed into your 406 MHz emergency beacon by the manufacturer or an installer. The UIN is part of the message transmitted by the beacon when activated. The UIN is also referred to as the Beacon ID in NOAA's Registration Database. Please verify that the 15 character Beacon ID registered with NOAA is identical to the 15 character manufacturer/installer programmed UIN. The Beacon ID registered with NOAA is found on the upper right hand corner of this letter and the attached decal. Decals are no longer accepted for Emergency Locator Transmitters (ELTs). For most beacons the manufacturer/installer programmed UIN can be found on an exterior or an interior surface of the beacon itself. It is also on the documentation provided by the manufacturer or installer. Please contact the manufacturer or installer if you cannot find or determine the manufacturer/installer programmed UIN. If the Beacon ID registered with NOAA is not identical to the manufacturer/installer UIN, please contact us immediately at one of the phone numbers listed below.
In the event that your beacon is activated the information you provided will be appended to the distress message transmitted to a Rescue Coordination Center. This information is critical for Search and Rescue (SAR) forces locating you, your vessel, or your aircraft in a timely manner and could possibly save your life. This letter is the proof-of-registration for your beacon.
The registration information you have provided has been entered into our database and a printout of this information is enclosed. Log on to your beacon registration account to review and/or update your registration information at www.beaconregistration.noaa.gov. Ensure that all your information is correct, especially the emergency point of contact information. If you do not have internet access, you may also make the changes on the enclosed printout and return it to us at the address shown below or by fax at 301-817-4565.
This letter is the proof-of-registration for your beacon. For all beacons except ELTs, a decal is enclosed that should be affixed to the registered beacon. Decals are no longer accepted for Emergency Locator Transmitters (ELTs). It is recommended that you affix the decal to the beacon in such a way that it is visible when the beacon is properly mounted. Be sure the area is clean and dry when affixing the decal. It will take 48 hours for the decal adhesive to properly bond. A laminata is provided to protect the decal from exposure to the weather. Place this laminata over your decal.
Registration of 406 MHz emergency beacons is mandatory and must be renewed every two years. We will email, mail or fax you a reminder approximately two months prior to the expiration of your beacon registration.
Finally, we ask that you carefully read your owner's manual for instructions on installation and self-testing, as well as on proper removal and storage of your beacon. There are important factors in ensuring the beacon works correctly when needed and reducing false alerts which needlessly tie up SAR forces and waste valuable resources. If you have any questions regarding your registration or wish to provide registration updates via email, contact NOAA's Beacon Registration Database team at beacon.registration@noaa.gov or by phone at 1-888-212-7283 or at 301-817-4515. If email is used, type: Beacon Registration for Subject

Sincerely,

Christopher O'Connors,
SARSAT Program Manager
Tel: 301-817-4515
Tel: 1-888-212-SAVE (7283)
Fax: 301-817-4565
SARSAT Beacon Registration
NSOP, E/SPO3
NOAA
1315 East West Hwy
Silver Spring MD 20910-3282

Expiration Date 03/28/2013

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



Save time! Update your beacon online at: www.beaconregistration.noaa.gov

Official 406 MHz ELT Registration Form

Mail or Fax to:
NOAA/SARSAT
NSOP, E/SPP3
4231 Sullitland Road
Sullitland, MD 20746
Fax No. 301-817-4565

ELT Information

Beacon ID (Unique Identifier Number) **2DC843A93AFFBF** (15 digit character ID provided by ELT manufacturer)
ELT Manufacturer **Ates** Model No. **ME-408** Decal Expiration Date **03/28/2013**

Owner/Operator Information

Name **Jenty Aviation, LLC** Telephone (973) 5863364 Home/Work Cell Fax Other
Mailing Address **4 Stonebridge Ct** (973) 5863363 Home/Work Cell Fax Other
City **Denville** (973) 5400106 Home/Work Cell Fax Other
State/Province **NJ** Home/Work Cell Fax Other
Zip (Postal) Code **07834** Home/Work Cell Fax Other
Country **USA**
E-mail **javy@bellatlantic.net**

Aircraft Information

Registration Number **N172EV** Survival Equipment
Deployable (Describe and List Quantity)
Fixed (Describe and List Quantity)
Usage Government Military Government Non-military
 Commercial Non-commercial
Type Single-engine Propeller Single-engine Jet
 Multi-engine Propeller Multi-engine Jet Helicopter Principal Airport **MMBU**
Other _____
Seating Capacity **2** Radio Equipment (Check all that apply)
 VHF MF HF SSB
 Other _____
Color **White/Bluegray**
Aircraft Manufacturer **Cessna Aircraft**
Model **172S Skyhawk**
Additional Data _____

Emergency Contact Information (Please indicate someone other than the owner)

Name of Primary 24-Hour Emergency Contact: Name of Alternate 24-Hour Emergency Contact:
Angela Cortes **Melanie VanderValk**
(973) 7690557 Home/Work Cell Fax Other (973) 586-3363 Home/Work Cell Fax Other
(973) 5400106 Home/Work Cell Fax Other (201) 572-9421 Home/Work Cell Fax Other
Home/Work Cell Fax Other Home/Work Cell Fax Other
Home/Work Cell Fax Other Home/Work Cell Fax Other

If you have any questions about this form or with ELT registration in general, please call 1-888-212-SAVE or 301-817-4515. OMB 0648-0290
For information on the U.S. Search and Rescue Satellite-Aided Tracking system, please visit www.sarsat.noaa.gov exp. 03/06/2011



SARSAT Beacon Registration
NOAA/SARSAT
NSOP, E/SPP3
4231 Sullitland Road
Sullitland MD 20746

March 29, 2011

Jenty Aviation, LLC
4 Stonebridge Ct.
Denville NJ 07834

Beacon ID:
2DC843A93AFFBF

Dear Jenty Aviation, LLC.,
Thank you for submitting your 406 MHz emergency beacon registration.

A 15 character Unique Identifier Number (UN) has been programmed into your 406 MHz emergency beacon by the manufacturer or an installer. The UN is part of the message transmitted by the beacon when activated. The UN is also referred to as the Beacon ID in NOAA's Registration Database. Please verify that the 15 character Beacon ID registered with NOAA is identical to the 15 character manufacturer/installer programmed UN. The Beacon ID registered with NOAA is found on the upper right hand corner of this letter and the attached decal. For most beacons the manufacturer/installer programmed UN can be found on an exterior or an interior surface of the beacon itself. It is also on the documentation provided by the manufacturer or installer. Please contact the manufacturer or installer if you cannot find or determine the manufacturer/installer programmed UN. If the Beacon ID registered with NOAA is not identical to the manufacturer/installer UN, please contact us immediately by phone at one of the phone numbers listed below.

In the event that your beacon is activated the information you provided will be appended to the distress message transmitted to a Rescue Coordination Center. This information is critical for Search and Rescue (SAR) forces locating you, your vessel, or your aircraft in a timely manner and could possibly save your life. This letter constitutes proof of beacon registration.

The registration information you have provided has been entered into our database and a printout of this information is enclosed. Log on to your beacon registration account to review and/or update your registration information at: www.beaconregistration.noaa.gov. Ensure all your information is correct, especially the emergency point of contact information. If you do not have internet access, you may also make changes by hand on the enclosed printout and return it to us at the address shown below or by fax at 301-817-4565.

Enclosed is a proof-of-registration decal that may be used to provide proof of registration. It is recommended that you affix the decal to the beacon in such a way that it is visible when the beacon is properly mounted. Be sure the area is clean and dry when affixing the decal. It will take 48 hours for the decal adhesive to properly bond. A laminate is provided to protect the decal from exposure to the weather. Place the laminate over your decal. Now that either this letter or the enclosed decal may be used as proof of beacon registration.

Registration of 406 MHz emergency beacons is mandatory and only valid for two years. You are required to re-register your beacon with NOAA in two years. We will email, mail or fax you a request for confirmation approximately two months prior to the expiration of your beacon registration.

Finally, we ask that you carefully read your owner's manual for instructions on installation and self-testing, as well as on proper removal and storage of your beacon. These are important factors in ensuring the beacon works correctly when needed and reducing false alerts which needlessly tie up SAR forces and waste valuable resources. If you have any questions regarding your registration or wish to provide registration updates via email, contact NOAA's Beacon Registration Database team at beacon.registration@noaa.gov or by phone at 1-888-212-7285 or at 301-817-4515. If email is used, type "Beacon Registration" for Subject.



SARSAT Beacon Registration
NSOP, E/SPP3
NOAA
4231 Sullitland Road
Sullitland MD 20746-4304

Tel: 301.817-4515
Tel: 1-888-212-SAVE (7283)
Fax: 301-817-4565

Sincerely,

Christopher O'Connors,
SARSAT Program Manager

Aircraft Order System

[User Login](#) | [Cert Data - List](#)
[Aircraft Order - List](#) | [Firm SER List](#)
[Aircraft Schedule](#) | [Marketing Spec](#)
[Inquiry List - Unit - Search](#) | [Post Delivery](#)
[Phone Setup](#) | [EK Usage](#)



Phone Service/Setup - 172S, 010776

Technical Service/Setup	Value
ELT 15 Digit Unique Number	2dc843e93affbf USA

Model: Serial:

[AOS Home Page](#)

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Flite Level Warranty

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



January 26, 2011

Angel Cortes
Jenty Aviation LLC
4 Stonebridge Ct
Denville, NJ 07834

Dear Angel,

Thank you for choosing FliteLevel Extended Warranty™ to provide a complete support package for your Garmin Integrated Avionics System. FliteLevel supplies you with world class Garmin factory technical assistance supported by a global network of authorized service centers. This is designed to give you piece of mind and comprehensive protection against the unexpected.

You have selected the FliteLevel Extended Warranty™ program for LRU's plus Labor.

Enclosed you will find the following:

- Terms and Conditions
- Warranty Card (2)

Garmin recommends that you keep one Warranty card for yourself, and one with the aircraft log book.



For your convenience, listed below are coverage points for Garmin FliteLevel Extended Warranty™:

Included

- No charge 24/7 AOG coverage
- Priority Service – Unit exchange of LRU's for quick turn around
- Recommended Garmin Service Bulletins
- GDC74(X) recalibration (up to 2.5 hrs)
- Warranty Transfer upon sale of aircraft.

Not Included

- Data such as update cards (Jeppesen, Terrain, TAWS, FliteCharts, SafeTaxi, Chartview, and Obstacle).
- Optional or OEM Service Bulletins.
- Labor in excess of recommended troubleshooting, removal, or installation of the LRU.
- FAA Regulatory inspections and regular maintenance items
- Squeech or volume adjustments
- Chemicals, sealant, paint, or electrical supplies
- Travel and mileage expenses related to labor
- Other incidental or consequential damages, loss of use
- Failures due to abuse, misuse, accident, natural disasters or unauthorized alteration or repairs, improper installation or modification
- Damage to the product caused by other equipment installed on the aircraft

Please feel free to contact Garmin should questions arise concerning FliteLevel Extended Warranty™ coverage or system operation at techsupp@garmin.com or via phone at:

US: 1-866-739-5687
Canada: 1-866-429-9296

Regards,
Garmin Aviation Warranty Administration

TERMS & CONDITIONS
Garmin FitLevel Extended Warranty™

This Contract is not an insurance contract.

- Parties.** Garmin International, Inc., 1200 East 151st Street, Olathe, Kansas 66062 ("Garmin"), is the obligor under this Extended Warranty. "You" and "Your" means the purchaser of the product(s) covered under the Extended Warranty and any authorized transferee/assignee of the purchaser. "Product(s)" means only those certain products covered under the Extended Warranty.
- Contract.** These terms and conditions ("Terms and Conditions"), Your application which includes the part number list for the Extended Warranty ("Application") and the confirmation of Your Extended Warranty received from Garmin ("Confirmation"), if any, shall constitute the entire Extended Warranty contract ("Contract"). Your Application shall constitute an offer for the Contract, and Garmin's Confirmation, if given by Garmin, shall constitute an acceptance of the Contract. No such Contract shall be binding until Garmin's Confirmation is given. The Confirmation describes the Product(s), the type of Extended Warranty purchased, the purchase price of the Extended Warranty ("Contract Price"), and when the Contract starts and how long it lasts. The Contract provides coverage only for the Product(s) listed on the Confirmation.
- Extended Warranty.** Garmin agrees to extend Garmin's Limited Warranty for the Product(s) to You for the additional time period or aircraft takeoff time noted on the Application, whichever comes first. You will be required to produce written evidence of Your Extended Warranty in order for the Extended Warranty to be honored. Within the Extended Warranty period, Garmin will, at its sole discretion, replace or repair upon Your request any components that fail in normal use. Such replacement or repairs will be made at no charge to You for parts and/or labor incidental to the direct repair of the Product(s) covered under this Extended Warranty. Garmin may, at its discretion with prior approval, reimburse an authorized Garmin Service Authorized Center ("Authorized Service Center") for associated labor costs incurred for removal and replacement of the Product(s). You shall be responsible for any transportation or other costs necessary to get the Product(s) to an Authorized Service Center. This Extended Warranty does not cover failures due to abuse, misuse, natural disasters or weather, accident, unauthorized alterations or repairs, damage caused by faulty or improperly installed batteries, and the specific Exclusions referenced in Section 8 below. **Some program features will not be available for aircraft located outside of the continental United States or Canada.**

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS EXTENDED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL GARMIN BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE A PRODUCT OR FROM DEFECTS IN THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to You.

Garmin retains the exclusive right to replace or repair the Product(s). SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF THIS EXTENDED WARRANTY.

- Details of Service.** You will need to take the Product(s) to an Authorized Service Center for Extended Warranty service. If You cannot locate an Authorized Service Center, please contact Garmin at www.garmin.com. Neither Garmin nor the Authorized Service Center will be responsible for delays or failure in performing service caused by acts of nature, acts of any government, or causes beyond their control. Any repairs made to the Product(s) by someone other than an Authorized Service Center will not be honored or reimbursed under the Extended Warranty.
- Non-Repairable Products and Replacement Products.** If the Authorized Service Center is notified that the Product is non-repairable, or if repair parts become unavailable, You may receive a new or reconditioned product of like kind and quality as Your remedy under the Extended Warranty, to be determined at Garmin's discretion. Garmin will attempt to provide a replacement product with equal or similar features and functionality.
- Rejection or Cancellation by Garmin.** Garmin may reject Your request for Extended Warranty if You provide false or incomplete information. Garmin may cancel the Contract for breach of contract by You, misrepresentation by You, or fraud or material misrepresentation by You in attempting to obtain or obtaining the Contract or presenting a claim for service. If Garmin rejects or cancels the Contract during the first thirty (30) days of the Contract, Garmin will deduct a ten percent (10%) cancellation fee and You will receive the remaining amount You paid for the Extended Warranty except there will be no refund of any functionality test fees. If Garmin cancels the Contract after the first thirty (30) days for any contractual reason except fraud or misrepresentation, You will receive a refund equal to a prorated amount of the Contract Price (based on the duration of the Contract) less claims paid. If Garmin cancels the Contract after the first thirty (30) days because of fraud or misrepresentation by You, Garmin shall, in its sole discretion, determine what, if any amount, will be returned to you. Notice of the cancellation by Garmin will be sent to You at least thirty (30) days before cancellation, and will state the effective date and reason for cancellation.

M02-10202-00 Rev A

- Transfer of Contract.** You may transfer this Contract for the Product to another person or entity by writing to the Garmin Extended Warranty Administrator, Garmin International, Inc., 1200 East 151st Street, Olathe, KS 66062. The notice must include the name, address and telephone number of the person or entity to whom the Contract is being transferred. As long as Your Contract is valid, Your transfer takes effect as soon as the Garmin Extended Warranty Administrator receives Your written notice, processes such request, and sends Confirmation to the new person or entity.

8. EXCLUSIONS FROM SERVICE. YOUR CONTRACT DOES NOT COVER LOSS OR DAMAGE RESULTING FROM:

- Use of the Product(s) in a manner other than normal use and operation in accordance with Garmin's specifications and instructions for use, lack of Garmin-specified regular maintenance, improper equipment modifications and improper installations.
- Theft, negligence, accident and subsequent damage, misuse or abuse.
- Pre-existing conditions that exist prior to the Contract effective date and are known to You.
- Unauthorized alterations or repairs by third parties.
- Damage to the Product caused by natural disasters, weather, or other equipment installed on the aircraft.

- Your Duties under the Contract.** For the Contract to remain active, You must maintain the Product in accordance with Garmin's service requirements as specified in all applicable manuals and documents accompanying or relating to Your Product(s). In addition, You must and assume full cooperation with the Authorized Service Center and its authorized designees, in providing such Extended Warranty service.

10. Limitation of Liability.

- To the extent permitted by applicable law, Garmin's total liability under the Contract, and that of Authorized Service Center, for any allegedly defective Product(s) or components shall be limited to repair or replacement of the Product(s) or components.
- To the extent permitted by applicable law, neither Garmin nor Authorized Service Center or its designees shall have any liability for special, indirect, incidental or consequential damages, including lost revenues or profits, related to any service provided under the Contract, including, but not limited to, any delay in rendering service, loss of data, fuel costs or other expenses or damages, or loss of aircraft use during the repair period of the product(s) or while otherwise awaiting parts.
- Garmin does not assume any responsibility or liability for their agents and assignees other than as specifically described in this Contract.
- The Contract does not create any additional rights against Garmin or the Authorized Service Center.

- Governing Law.** Unless otherwise governed by applicable state law, the Contract shall be interpreted and enforced in accordance with the laws of Kansas. Any action or proceeding seeking to enforce any provision of, or based on any right arising out of, this Contract shall be brought in the federal or state courts located in the State of Kansas and each party consents to the jurisdiction of such courts and waives any objection to venue laid therein.

- Entire Agreement.** This Contract contains the entire understanding between the parties with the respect to the matters contemplated by this Contract and supersedes all prior written or oral communications, negotiations, understandings or agreements of any kind with respect to such matters. If there is a conflict between the Contract and information communicated either orally or in writing by Garmin, Authorized Service Center, or their respective employees or agents, the provisions of this Contract shall control.

- Subrogation.** If Your Product is replaced under the terms of this Contract, You agree to subrogate and assign Your rights of recovery to Garmin. You will be reimbursed for any reasonable costs and expense You may incur in connection with the subrogation and assignment of Your rights. You will be made whole before Garmin retains any amounts which may be recovered.

- Severability.** The invalidity or unenforceability of any provision of this Contract shall not affect the validity or enforceability of any other provisions hereof. If any of the covenants or agreements in this Contract are determined to be unenforceable by reason of extent, scope, duration or otherwise, then the parties contemplate that the court making such determination shall reduce such extent, scope, duration or other provision and enforce them in their reduced form.

- Headings.** The headings in this Contract are provided for convenience only and shall not affect the construction or interpretation of this Contract.

M02-10202-00 Rev A

Extended Warranty Program for Cessna Aircraft

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

INTRODUCTORY OFFER
Includes some aircraft out of warranty*

LYCOMING
The power of choice.

Extended Warranty Program for Cessna Aircraft

Lycoming is now offering an Extended Warranty program for Lycoming powered Cessna aircraft. The program is offered for 2008 and newer aircraft: models 172, 182 and 206. It is available as a one (1), two (2) or three (3) year extension to the original two (2) year warranty.

The extended warranty program will provide:

- The same coverage as the original Lycoming engine warranty
- Full parts & labor (excluding accessories)

Eligible aircraft include:

- Aircraft currently within the original two year warranty
- All aircraft, regardless of mission or location. No exclusion for fleet or flight school aircraft, both domestic and international.

* **Introductory Offer:** Through December 31, 2010, eligible aircraft include those that are up to one (1) year outside of the original warranty - act quickly!

Application		1 Year	2 Year	3 Year
172R/S IO-360-L2A	Part Number	LXW172-1	LXW172-2	LXW172-3
	List Price	\$1,237.00	\$2,822.00	\$4,215.00
182T IO-540-AB1A5	Part Number	LXW182-1	LXW182-2	LXW182-3
	List Price	\$1,379.00	\$2,924.00	\$4,701.00
T182T TIO-540-AK1A	Part Number	LXW182T-1	LXW182T-2	LXW182T-3
	List Price	\$2,053.00	\$4,352.00	\$6,996.00
206H IO-540-AC1A5	Part Number	LXW206-1	LXW206-2	LXW206-3
	List Price	\$1,788.00	\$3,790.00	\$6,092.00
T206H TIO-540-AJ1A	Part Number	LXW206T-1	LXW206T-2	LXW206T-3
	List Price	\$2,557.00	\$5,420.00	\$8,713.00

Please subject to change

Contact your nearest Cessna Authorized Service Facility

Cessna Service Parts & Programs
Quality Products • Exceptional Service • The Best Overall Value

Renewal Notice



Cessna Revision Service Renewal Form

D: 10/1/2010
 C: 172S Unit: 172S10778 Serial: 172S10776 Subscription ID: 157583
 Your Revision Service(s) will expire on 11/30/2010. Please check your ADDRESS below, make any changes necessary in the blanks to the right and then send this renewal notice and your payment to us at the address below.

Name & Address are correct as shown below: Change Name and/or address as shown below:

Mr. Ron Vandervalk
 Jently Aviation, Inc.
 4 Stonebridge Ct
 Denville NJ 07834

Phone: _____
 Fax: _____
 Email: _____

This subscription will automatically transfer with the change of ownership of the aircraft unless otherwise notified. No refund will be made for unused portion.

QTY	NUMBER	DESCRIPTION	UNIT COST	TOTAL COST
1	OA-DUPSERG100-Owner Advisory Dup. Sub. for Restart G1000		\$41.00	41.00
			Revision Service Subtotal: US \$	41.00
U.S. Subscribers - Add your local Sales/Use Tax (or supply your Exemption Certificate) _____%			US \$	
			One Year Renewal - Total Due: US \$	

Method of Payment

Open Account No: _____ Authorized Signature: _____ PO No: _____

Check No: _____ Money Order Enclosed Wire Transfer

Credit Card Type - (Please circle one) Visa / MasterCard / American Express Expiration Date: _____

Card # _____ Card Holder: _____ Signature: _____

Special Notice to International Customers who desire to pay via wire transfer: SUBSCRIPTIONS TO BE PAID IN U.S. DOLLARS ONLY. Bank transfer should be made to: JP Morgan Chase Bank, 1 Chase Manhattan Plaza, New York, New York, 10081 U.S.A., payable to Cessna Aircraft Company account number 110-338643. ABA/Routing No. 0210-0001, Swift Code CCHAUS33. Please attach a copy of the bank transfer notice with name and description of subscription to this order form and forward both items directly to Cessna Aircraft Company at the address listed below. PLEASE REFERENCE THE ABOVE SUBSCRIPTION ID NUMBER ON ALL WIRE TRANSFERS.

All revision service shipments are F.O.B. Wichita. Domestic shipments will be sent United Parcel Service, parcel post or surface freight collect, export shipments will be sent air freight collect.

PRICE AND CONTENT SUBJECT TO CHANGE WITHOUT NOTICE
 Visit our web site, www.cessnasupport.com, for additional information!

Renewal Notice



Cessna Revision Service Renewal Form

Date: 12/10/2009

Cust No: 1728 Unit: 172S10776 Serial: 172S10776 Subscription ID: 166186

Your Revision Service(s) will expire on 01/31/2010. Please check your ADDRESS below, make any changes necessary in the blanks to the right and then send this renewal notice and your payment to us at the address below.

Name & Address are correct as shown below: Change Name and/or address as shown below:

Mr. Ron Vandervalk
Jenty Aviation, Inc.
4 Stonbridge Ct
Denville NJ 07834

Phone: _____
Fax: _____
E-mail: _____

This subscription will automatically transfer with the change of ownership of the aircraft unless otherwise notified. No refund will be made for unused portion.

QTY	NUMBER	DESCRIPTION	UNIT COST	TOTAL COST
1	172SCLBUSGSW	172S GFC700 Electronic Checklist	\$147.00	147.00
			Revision Service Subtotal: US \$	147.00
U.S. Subscribers - Add your local Sales/Use Tax (or supply your Exemption Certificate) _____ %			US \$	
One Year Renewal - Total Due: US \$				

Method of Payment

Open Account No: _____ Authorized Signature: _____ PO No: _____

Check No: _____ Money Order Enclosed Wire Transfer

Credit Card Type - (Please circle one) Visa / MasterCard / American Express Expiration Date: _____

Card # _____ Card Holder: _____ Signature: _____

Special Notice to International Customers who desire to pay via wire transfer: SUBSCRIPTIONS TO BE PAID IN U.S. DOLLARS ONLY. Bank transfer should be made to: JP Morgan Chase Bank, 1 Chase Manhattan Plaza, New York, New York, 10051 U.S.A., payable to Cessna Aircraft Company account number 316-386543, ABA Routing No. 0210-00021, Swift Code Chas333. Please attach a copy of the bank transfer notice with name and description of subscription to this order form and forward both items directly to Cessna Aircraft Company at the address listed below. PLEASE REFERENCE THE ABOVE SUBSCRIPTION ID NUMBER ON ALL WIRE TRANSFERS.

All revision service shipments are F.O.B. Wichita. Domestic shipments will be sent United Parcel Service, parcel post or surface freight collect, export shipments will be sent air freight collect.

PRICE AND CONTENT SUBJECT TO CHANGE WITHOUT NOTICE

Visit our web site, www.cessnasupport.com, for additional information!

NOT RENEWED

ALL REVISION SERVICE SHIPMENTS ARE F.O.B. WICHITA. DOMESTIC SHIPMENTS WILL BE SENT UNITED PARCEL SERVICE, PARCEL POST OR SURFACE FREIGHT COLLECT, EXPORT SHIPMENTS WILL BE SENT AIR FREIGHT COLLECT.

Cessna Aircraft Co., Publications - Dept. 754, P.O. Box 7706, Wichita, KS 67277, U.S.A.
Telephone: 316-517-6215, FAX: 316-517-5802

Renewal Notice



Cessna Revision Service Renewal Form

Date: 2/25/2010

Cust No: 1728 Unit: 172S10776 Serial: 172S10776 Subscription ID: 166186

Your Revision Service(s) will expire on 01/31/2010. Please check your ADDRESS below, make any changes necessary in the blanks to the right and then send this renewal notice and your payment to us at the address below.

Name & Address are correct as shown below: Change Name and/or address as shown below:

Mr. Ron Vandervalk
Jenty Aviation, Inc.
4 Stonbridge Ct
Denville NJ 07834

Phone: _____
Fax: _____
E-mail: _____

This subscription will automatically transfer with the change of ownership of the aircraft unless otherwise notified. No refund will be made for unused portion.

QTY	NUMBER	DESCRIPTION	UNIT COST	TOTAL COST
1	172SCLBUSGSW	172S GFC700 Electronic Checklist	\$147.00	147.00
			Revision Service Subtotal: US \$	147.00
U.S. Subscribers - Add your local Sales/Use Tax (or supply your Exemption Certificate) _____ %			US \$	
One Year Renewal - Total Due: US \$				

Method of Payment

Open Account No: _____ Authorized Signature: _____ PO No: _____

Check No: _____ Money Order Enclosed Wire Transfer

Credit Card Type - (Please circle one) Visa / MasterCard / American Express Expiration Date: _____

Card # _____ Card Holder: _____ Signature: _____

Special Notice to International Customers who desire to pay via wire transfer: SUBSCRIPTIONS TO BE PAID IN U.S. DOLLARS ONLY. Bank transfer should be made to: JP Morgan Chase Bank, 1 Chase Manhattan Plaza, New York, New York, 10051 U.S.A., payable to Cessna Aircraft Company account number 316-386543, ABA Routing No. 0210-00021, Swift Code Chas333. Please attach a copy of the bank transfer notice with name and description of subscription to this order form and forward both items directly to Cessna Aircraft Company at the address listed below. PLEASE REFERENCE THE ABOVE SUBSCRIPTION ID NUMBER ON ALL WIRE TRANSFERS.

All revision service shipments are F.O.B. Wichita. Domestic shipments will be sent United Parcel Service, parcel post or surface freight collect, export shipments will be sent air freight collect.

PRICE AND CONTENT SUBJECT TO CHANGE WITHOUT NOTICE

Visit our web site, www.cessnasupport.com, for additional information!

Cessna Aircraft Co., Publications - Dept. 754, P.O. Box 7706, Wichita, KS 67277, U.S.A.
Telephone: 316-517-6215, FAX: 316-517-5802

Configuration Statement letter

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

CONFIGURATION STATEMENT



Model: 172S Skyhawk
Serial Number: 172S10776
Registration Number: N6330X
Date of Airworthiness: 28 July, 2008

There have been no major modifications, changes, or other alterations accomplished subsequent to manufacture and original airworthiness certification of this aircraft.


Douglas L. Thompson
Quality Assurance / FAA ODAR
Cessna Aircraft Company
Independence, KS 67301

Noise Compliance Statement

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



NOISE COMPLIANCE STATEMENT
CESSNA MODEL 172S Skyhawk
S/N 172S10776

The aircraft identified on this document was produced in compliance with the approved Type Design identified in FAA Aircraft Type Certificate No. 3A12 and Type Certificate Data Sheet No.3A12, Revision 77, dated 06/18/2008

The Federal Aviation Authority of the United States of American does not issue certificates for compliance with noise limitations identified in Chapter 14, Section 1, Subpart 36, of the Code of Federal Regulations, generally referred to as FAR Part 36. The current requirements of ICAO Annex 16, Chapter 10, are identical to the noise limitations set forth in FAR Part 36.

The Cessna Model 172S Skyhawk has demonstrated compliance to the noise limitation requirements of FAR Part 36 and was granted Type Approval with issue of Type Certificate Number 3A12 to Cessna Aircraft Company.

At the time of Original Airworthiness Certification on 28 July, 2008, the aircraft identified on this document was in compliance with FAR 36 and ICAO Annex 16, Chapter 10 with a demonstrated noise signature (per FAR 36, Appendix G) of 82.7 dBA. Any subsequent alterations or modifications to this aircraft may invalidate this compliance.


Douglas L. Thompson ODARF100129CE
Quality Assurance \ FAA ODAR

28 July, 2008
Date

Certificate of United States of America Origin

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)



Certificate of United States of America Origin

The aircraft identified on this document was produced by Cessna Aircraft Company, Independence, Kansas, U.S.A., under authority of FAA Production Certificate No. 4. This aircraft was fabricated and completed at manufacturing facilities of Cessna Aircraft Company in Independence, Kansas, U.S.A.

Subject Aircraft

Description: High-wing, all metal, tri-cycle gear, conventional configuration, unpressurized cabin, single reciprocating engine.

Design Approval: FAA Aircraft Type Certificate No. 3A12 and Type Certificate Data Sheet No.3A12, Revision 77.
Certification Basis: FAA FAR Part 23, Normal/Utility Category

Model Designation: 172S

Model Name: Skyhawk

Serial Number: 172S10776

Registration: N6330X

Manufacturer: Cessna Aircraft Company

Date of Manufacture: 28 July, 2008

Place of Manufacture: Independence, Kansas, U.S.A.


Douglas L. Thompson
ODARF100129CE
Quality Assurance | FAA ODAR
Cessna Aircraft Company
Independence, KS 67301

28 July, 2008
Date



**AIRWORTHINESS DIRECTIVES and SERVICE BULLETINS
COMPLIANCE STATEMENTS
CESSNA MODEL 172S Skyhawk
S/N 172S10776**

The aircraft identified on this document was produced by Cessna Aircraft Company, Independence, Kansas, USA, under the authority of FAA Production Certificate No. 4. This aircraft was manufactured in accordance with the approved Type Design identified in FAA Aircraft Type Certificate Number 3A12, Type Certificate Data Sheet Number 3A12, Revision 77, dated 08/18/2008.

The aircraft identified on this document is a new aircraft that has been inspected and found in compliance with:

- a. all applicable FAA Airworthiness Directives (Ads) issued through Sequence Number 2008-15, and
- b. all applicable mandatory Service Bulletins and Service Letters issued through 28 July, 2008, and
- c. the recommended Service Bulletins and Service Letters incorporated at the request of the purchaser.

Except as identified and approved in the Production Limitation Record for Production Certificate Number 4, as of the date of this document there are no alterations from the approved Type Design embodied in this aircraft.


Douglas L. Thompson ODARF100129CE
Quality Assurance \ FAA ODAR

28 July, 2008
Date

Statement of Conformity

[Airframe Index](#) [Engine Index](#) [Propeller Index](#) [AD Index](#)

STATEMENT OF CONFORMITY	
CMB 2120-0018	
Section I - Aircraft	
1. Make: Cessna	2. Model: 172B
3. Serial No.: 172810776	4. Registration No.: N6330X
Section II - Engine	
1. Make: Lycoming	2. Model: IO-360-L2A
3. Serial No.: L34243-61E	
Section III - Propeller	
1. Make: McCauley	2. Model: TAITOEJHA760
3. Hub Serial No.: ACD2006	4. Blade Serial Nos.:
Section IV - Certification	
I hereby certify that:	
<input checked="" type="checkbox"/> A. I have complied with Section 21.33(a). <input checked="" type="checkbox"/> B. The aircraft described above, produced under type certificate only (FAI 21 Subpart F), conforms to its type certificate, is in a condition for safe operation, and was flight checked on <u>28 July, 2008</u> (Date). <input checked="" type="checkbox"/> C. The engine or propeller described above, presented herewith for type certification, conforms to the type design therefor. <input checked="" type="checkbox"/> D. The engine or propeller described above produced under type certificate only (FAI 21 Subpart F), conforms to its type certificate and is in a condition for safe operation. The engine or, if applicable, the variable pitch propeller was subjected by the manufacturer to a final check on <u>28 July, 2008</u> (Date).	
Deviations:	
Signature of Certifier <i>Douglas L. Thompson</i> Douglas L. Thompson Organization: Cessna Aircraft Company	Title: Quality Assurance I/FAA ODAR Date: 28 July, 2008



A WORD ABOUT LEATHER

Real leather is a natural product, and as such will always bear the markings of its natural origin. It is these "marks of life" that make each hide entirely unique.

These marks in no way detract from the finished product - in fact, they enhance it by providing it with character and individuality. Combined with its amazingly graceful aging properties, leather can actually improve with time and wear.

Because no two hides are alike and textures vary, dye and finish penetrations will differ, however carefully applied. It takes two hides for Model 172, three hides for Model 182, and four hides for Model 206. While every attempt is made to achieve uniformity, some variation in color may occur: but this, like many natural marks and features on a hide, forms part of the natural charm of the finished seat.

Serial Number Log

Teledyne Battery Products
840 W. Brockton Avenue
Redlands, CA 92374

Printer Name: James Eilon
Signature: 

#130-J System Tracking No: 23074
FAA Designation Number: DMR 830633-AM

Model	Qty	Serial Number(s)
G-335	40	02729951, 02729952, 02729953, 02729954, 02729955, 02729956, 02729957, 02729958, 02729959, 02729960, 02729961, 02729962, 02729963, 02729964, 02729965, 02729966, 02729967, 02729968, 02729969, 02729970, 02729971, 02729972, 02729973, 02729974, 02729975, 02729976, 02729977, 02729978, 02729979, 02729980, 02729981, 02729982, 02729983, 02729984, 02729985, 02729986, 02729987, 02729988, 02729989, 02729990, 02729991, 02729992, 02729993, 02729994, 02729995, 02729996, 02729997, 02729998, 02729999, 02730000
G-336	72	02730001, 02730002, 02730003, 02730004, 02730005, 02730006, 02730007, 02730008, 02730009, 02730010, 02730011, 02730012, 02730013, 02730014, 02730015, 02730016, 02730017, 02730018, 02730019, 02730020, 02730021, 02730022, 02730023, 02730024, 02730025, 02730026, 02730027, 02730028, 02730029, 02730030, 02730031, 02730032, 02730033, 02730034, 02730035, 02730036, 02730037, 02730038, 02730039, 02730040, 02730041, 02730042, 02730043, 02730044, 02730045, 02730046, 02730047, 02730048, 02730049, 02730050, 02730051, 02730052, 02730053, 02730054, 02730055, 02730056, 02730057, 02730058, 02730059, 02730060, 02730061, 02730062, 02730063, 02730064, 02730065, 02730066, 02730067, 02730068, 02730069, 02730070, 02730071, 02730072, 02730073, 02730074, 02730075, 02730076, 02730077, 02730078, 02730079, 02730080, 02730081, 02730082, 02730083, 02730084, 02730085, 02730086, 02730087, 02730088, 02730089, 02730090, 02730091, 02730092, 02730093, 02730094, 02730095, 02730096, 02730097, 02730098, 02730099, 02730100
G-341	2	02730101, 02730102
G-342	8	02730103, 02730104, 02730105, 02730106, 02730107, 02730108, 02730109, 02730110, 02730111
G-343	18	02730112, 02730113, 02730114, 02730115, 02730116, 02730117, 02730118, 02730119, 02730120, 02730121, 02730122, 02730123, 02730124, 02730125, 02730126, 02730127, 02730128, 02730129, 02730130, 02730131, 02730132, 02730133, 02730134, 02730135, 02730136, 02730137, 02730138, 02730139, 02730140, 02730141, 02730142, 02730143, 02730144, 02730145, 02730146, 02730147, 02730148, 02730149, 02730150, 02730151, 02730152, 02730153, 02730154, 02730155, 02730156, 02730157, 02730158, 02730159, 02730160, 02730161, 02730162, 02730163, 02730164, 02730165, 02730166, 02730167, 02730168, 02730169, 02730170, 02730171, 02730172, 02730173, 02730174, 02730175, 02730176, 02730177, 02730178, 02730179, 02730180, 02730181, 02730182, 02730183, 02730184, 02730185, 02730186, 02730187, 02730188, 02730189, 02730190, 02730191, 02730192, 02730193, 02730194, 02730195, 02730196, 02730197, 02730198, 02730199, 02730200
SP2718M	2	02730201, 02730202
Total:	923	

AVIALL - TRUE CERTIFIED COPY - 02/16/2012 - 25496 - AVIALL2502011

TELEDYNE BATTERY PRODUCTS
REDLANDS, CALIFORNIA 92375


CERTIFICATE OF COMPLIANCE

ISSUE TO: AVIALL CENTRAL WAREHOUSE
ADDRESS: 2750 REGENT BLVD
CITY, STATE, ZIP: DFW AIRPORT, TX 75261-9048
COUNTRY: USA

PART NUMBER	QUANTITY	P.O. NUMBER	SHIPPER NO.
1. ACID PACK, 1.2855G, 2QT, GILL, CONSUMER COMMODITY ORM-D	448	1701485	BP50023074
2. ACID PACK, 1.2855G, 3QT, GILL, CONSUMER COMMODITY ORM-D	480	1701485	BP50023074
3. CHRGR. BATTERY, TSC-01V, 24V, ASSY 120V W/ ALLIGATOR CLIPS	2	1701485	BP50023074
4. CHARGER, TDMC DUAL MODE	3	1701485	BP50023074
5. HYDROMETER 1.100-1.300, Fress#1, SPECIFIC GRAVITY 8080F	8	1701485	BP50023074

APPLICABLE SPECIFICATIONS: MIL-8-53709
OTHER PER TELEDYNE DWG
 PER TELEDYNE DWG
 ELECTROLYTE DOES NOT HAVE SHELF LIFE LIMITATIONS

This is to certify that all conditions pertaining to quality and performance as specified in your purchase order have been attended to, and that reports thereof are on file in the department.

TELEDYNE BATTERY PRODUCTS

Title: Quality Engineer
Date: 02/02/2012

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