



US Department  
of Transportation  
Federal Aviation  
Administration

**MAJOR REPAIR AND ALTERATION**  
**(Airframe, Powerplant, Propeller, or Appliance)**

OMB No. 2120-0020  
Exp: 5/31/2018

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark <b>N498HP</b>	Serial No. <b>3246121</b>	
	Make <b>Piper</b>	Model <b>PA-32R-301</b> Series	
2. Owner	Name (As shown on registration certificate) <b>GRANGER E DARRON</b>	Address (As shown on registration certificate)	
		Address <b>3550 Bell Springs Rd</b>	
		City <b>Dripping Springs</b> State <b>TX</b>	
		Zip <b>78620-2175</b> Country <b>USA</b>	


**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Piper</u>	(As described in Item 1 above)	<u>3246121</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name <b>DEAN DELVALLE</b>		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address <b>1045 WILLIAMSBURG DR.</b>		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City <b>SCHERTZ</b> State <b>TX</b>		<input type="checkbox"/> Certificated Repair Station	<b>3591172</b>
Zip <b>78154</b> Country <b>USA</b>		<input type="checkbox"/> Certificated Maintenance Organization	

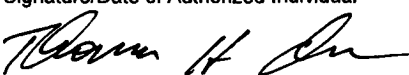
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  10/14/2019
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <b>X</b>	Inspection Authorization	Other (Specify)

Certificate or Designation No. <b>27406012 ATP</b>	Signature/Date of Authorized Individual  10/14/2019
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## 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.)

USA	Time 3050.6
N498HP	10/11/2019
Nationality and Registration Mark	Date

Removed KT76C Transponder.

Installed Garmin GTX335.

Installed and tested Garmin GTX335 ADS-B Compliant Transponder in accordance with Garmin Installation manual PN 190-01499-02 Rev 14 dated July 2019.

This installation is a follow on to STC No. SA01714WI. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14CFR part 91.227.

Inserted FAA Approved Airplane Flight Manual Supplement, Garmin PN 190-00734-15 Rev. 4 in the Pilot's Operating Handbook.

Reference Instructions for Continued Airworthiness, Garmin PN 190-00734-11 Rev. 7 Sept. 2019.

Equipment list revised to reflect changes. See the aircraft records for Weight and Balance data.

A functional test of the installation described in this 337 was performed in accordance with FAR 23.1301 and FAR 23.1431.

Operation was satisfactory and the installation did not adversely affect existing components or systems in the aircraft.

-----END-----

☐ Additional Sheets Are Attached

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA01714WI

*This certificate issued to*

Garmin International, Inc.  
1200 East 151<sup>st</sup> Street  
Olathe, KS 66062

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 23\* of the Federal Aviation Regulations.*

*Original Product Type Certificate*

*Number:*

\* See attached Approved Model List (AML) No.

*Make:*

SA01714WI dated May 1, 2013 or later FAA-

*Model:*

approved revision for list of approved aircraft models and applicable airworthiness regulations.

*Description of Type Design Change:*

Installation of a Garmin transponders: (a) GTX 330/330D/33/33D with ADS-B Out functionality; (b) GTX 335/335R/345/345R with ADS-B Out and In functionality; or (c) GTX 335R/345R with ADS-B Out functionality in select airplanes installed with G950/G1000 systems.

Data Required:

- (1) Garmin Master Drawing List (MDL) 005-00734-04, Revision 1, dated May 1, 2013 or later FAA-approved revision.
- (2) Garmin Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS), 190-00734-15, Revision 1, dated May 1, 2013 or later FAA-approved revision.

*Limitations and Conditions:*

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft installations involving the Garmin transponder GTX 33/33D/330/330D models require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.
- (3) Aircraft installations involving the Garmin transponder GTX 335/335R/345/345R models without an optional internal GPS require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* August 7, 2012

*Date received:*

*Date of issuance:* May 1, 2013

*Date amended:* April 29, 2014, March 8, 2016

*By direction of the Administrator*



(Signature)

Michael Warren  
ODA STC Unit Administrator  
ODA-240087-CE  
Garmin International, Inc.

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.



**FAA Approved Model List (AML)**

**STC Number SA01714WI**

**Installation of Garmin Transponder GTX 33X and GTX 3X5 with ADS-B**

<p><b>FAA APPROVED</b></p> <hr/> <p><b>ODA ADMINISTRATOR</b></p> <hr/> <p><b>DATE</b></p> <p><b>ODA-240087-CE</b> <b>Garmin International</b> <b>1200 E. 151<sup>st</sup> Street, Olathe KS 66062</b></p>
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Issued Date: May 1, 2013  
Revised Date: August 27, 2013,  
March 8, 2016  
July 21, 2016



**FAA Approved Model List (AML) STC SA01714WI**

**Table I: Approved Aircraft WITHOUT GX000 Equipped Flight Deck System  
for installation of GTX 33/330 or GTX 335/345 Transponders**

Airplane Make (TCDS Holder) [common name or previous make]	Airplane Model Designation	Type Certificate Number	* TC Certification Basis	Master Drawing List Revision (005-00734-04)	R
(continued)  Piper Aircraft, Inc. (Piper Aircraft, Inc.) [The New Piper Aircraft, Inc.]	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-180, PA-28-201T, PA-28-235, PA-28-236, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28R-201T, PA-28RT-201, PA-28RT-201T	2A13	CAR 3 FAR 23	1	
	PA-28-161, PA-28R-201, PA-28-181	2A13	CAR 3 FAR 23	1	
	PA-32-260, PA-32-300, PA-32-301, PA-32-301T, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T,	A3SO	CAR 3	1	
	PA-32R-301(HP), PA-32R-301(SP), PA-32-301XTC, PA-32R-301T, PA-32-301FI	A3SO	CAR 3	1	
	PA-34-200, PA-34-200T	A7SO	FAR 23	1	
	PA-38-112	A18SO	FAR 23	1	
	PA-44-180T	A19SO	FAR 23	1	
	PA-44-180	A19SO	FAR 23	1	
	PA-31 (PA-31-310), PA-31-300, PA-31-325, PA-31-350	A20SO	CAR 3 FAR 23	1	
	PA-42, PA-42-720, PA-42-1000	A23SO	FAR 23	1	

Issued: May 1, 2013  
Revised: 21-July-2016







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Form Approved  
OMB No. 2120-0020  
2/28/2011

Electronic Tracking Number

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1. Aircraft	Nationality and Registration Mark <b>N498HP</b>	Serial No. <b>3246121</b>	
	Make <b>Piper</b>	Model <b>PA-32R-301</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Granger, Darron E</b>	Address (As shown on registration certificate) Address <b>18903 Windsor Crest Dr</b>	
		City <b>Houston</b>	State <b>TX</b>
		Zip <b>77094</b>	Country <b>USA</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name <b>Michael Medcalf</b>		<input checked="" type="checkbox"/> U. S. Certified Mechanic	Manufacturer
Address <b>PO Box 1354</b>		<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
City <b>San Marcos</b>	State <b>TX</b>	<input type="checkbox"/> Certified Repair Station	
Zip <b>78667</b>	Country <b>USA</b>	<input type="checkbox"/> Certified Maintenance Organization	<b>2764389</b>

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <b>Michael Medcalf 6/24/2019</b>
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. <b>452760326</b>	Signature/Date of Authorized Individual <b>Kenneth Medcalf 6/24/2019</b>
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## 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.)*

N498HP

Nationality and Registration Mark

6/24/2019

Date

Installed J.P. Instruments EDM-700 engine temperature monitoring system, P/N EGT-701-6C, S/N 41620. Installation done per STC SA2586NM, using installation manual Report 103, Revision E, dated 1/20/09. Revised the weight and balance and equipment list, incorporated flight manual supplement into the aircraft flight manual.

END

☐ Additional Sheets Are Attached



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1. Aircraft	Nationality and Registration Mark <b>N498HP</b>	Serial No. <b>3246121</b>	
	Make <b>PIPER</b>	Model <b>PA-32R-301</b>	Series
2. Owner	Name (As shown on registration certificate) <b>GRANGER E DARRON</b>	Address (As shown on registration certificate) Address <b>18903 WINDSOR CREST DR</b>	
		City <b>HOUSTON</b>	State <b>TX</b>
		Zip <b>77094-3331</b>	Country <b>US</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____ Manufacturer _____		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name <b>WALTER IRVING LANSING III</b>		<input checked="" type="checkbox"/> U. S. Certified Mechanic	Manufacturer
Address <b>1317 PROGRESS ST</b>		<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
City <b>SAN MARCOS</b>	State <b>TX</b>	<input type="checkbox"/> Certified Repair Station	
Zip <b>78666</b>	Country <b>US</b>	<input type="checkbox"/> Certified Maintenance Organization	<b>A&amp;P 2784226 IA</b>

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <b>Walter Lansing</b> <b>11/3/17</b>
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)

Certificate or Designation No. <b>A&amp;P 2784226 IA</b>	Signature/Date of Authorized Individual <b>Walter Lansing</b> <b>11/3/17</b>
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**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.)*

N498HP

Nationality and Registration Mark

11/3/17

Date

INSTALLED AIRWOLF FILTER CORP. AIR/OIL SEPARATOR KIT P/N AFC-W360-G. KIT INSTALLED IN ACCORDANCE WITH AIRWOLF FILTER CORP. INSTALLATION INSTRUCTIONS, DRAWING AFC-W360 REVISION C 08/24/06, DRAWING AFC-W315 REVISION B 06/01/05 AND STC SA02268CH.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS LOCATED IN AIRCRAFT RECORDS REFERENCE AIRWOLF FILTER CORP INSTALLATION INSTRUCTIONS PAGE 26.

WALTER IRVING LANSING  
A&P 2784226 IA

\*\*\*\*\*END\*\*\*\*\*

☐ Additional Sheets Are Attached



US Department  
of Transportation  
Federal Aviation  
Administration

**MAJOR REPAIR AND ALTERATION**  
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Form Approved  
OMB No. 2120-0020  
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INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N498HP	Serial No. 3246121		
	Make PIPER	Model PA-32R-301	Series PA32	
2. Owner	Name (As shown on registration certificate) GRANGER E DARRON	Address (As shown on registration certificate) Address 18903 WINDSOR CREST DR		
		City HOUSTON State TEXAS		
		Zip 77094-3331 Country USA		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	JERRY B. PARKER	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	919 MCKEEVER ROAD	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	ARCOLA State TEXAS	<input type="checkbox"/> Certificated Repair Station	A&P2150438
Zip	77583 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 09/20/13 <i>Jerry B. Parker</i>
--	--

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. A&P2150438IA	Signature/Date of Authorized Individual 09/20/13 <i>Jerry B. Parker</i>
--	--

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.

N498HP

09/20/13

8. Description of Work Accomplished

Nationality and Registration Mark

Date

INSTALLED CHAMPION SLICKSTART MAGNETO BOOSTER SYSTEM IN ACCORDANCE WITH STC  
SA593CH.

----- END -----

SL2-96

United States of America  
Department of Transportation--Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA593CH

*This certificate issued to* Champion Aerospace LLC  
1230 Old Norris Road  
Liberty, SC 29657

*certified that the change in the type design for the following product with the limitation and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations*

*Original Product -- Type Certificate Number:* \* See Attached FAA Approved Model List (AML) No.

*Make:* \* SA593CH for list of approved engine models and

*Model:* \* applicable airworthiness regulations

*Description of Type Design Change:*

Install Champion SlickSTART™ magneto booster system in accordance with Slick Installation Instructions as listed on AML No. SA593CH or later FAA Approved revision.

*Limitations and Conditions:*

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. A copy of this Certificate and FAA Approved Model List (AML) No. SA593CH, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.
3. SlickSTART™ Model SS1001 may only be used with Slick 4200, 6200, 4300, 6300 series magnetos.
4. SlickSTART™ Model SS1002 may only be used with TCM/Bendix S-20, S-200, S-1200 series magnetos.

ISSUED			REVISED			CHAMPION AEROSPACE LLC 1230 Old Norris Road Liberty, South Carolina, U.S.A. 29657 © 2009 Champion Aerospace www.championaerospace.com	PAGE NO.	REVISION
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**SL2-96**

5. Do not install SlickSTART™ Model SS1001 with Teledyne Continental Motors/Bendix S-20, S-200, and S-1200 series magnetos.
6. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* December 18, 1995

*Date issued:* February 10, 2009

*Date of issuance:* January 24, 1997

*Date amended:* May 2, 1997; March 9, 1998,  
April 20, 2000; March 12, 2004

*By direction of the Administrator*



Signed original on file at Champion

*(Signature)*

Thaddeus D. Krolicki, Jr.  
Manager, Propulsion Branch  
Chicago Aircraft Certification Office

*(Title)*

*This certificate may be transferred in accordance with FAR 21.47*

ISSUED			REVISED			CHAMPION AEROSPACE LLC 1230 Old Norris Road Liberty, South Carolina, U.S.A. 29657 © 2009 Champion Aerospace www.championaerospace.com	PAGE NO.	REVISION
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**SL2-96**

**FAA APPROVED MODEL LIST (AML) NO. SA593CH  
CHAMPION AEROSPACE LLC  
FOR INSTALLING SlickSTART™ MAGNETO BOOSTER SYSTEM**

Date of Issuance January 24, 1997

LINE	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		* AFM SUPP NO./DATE	AML AMEND DATE
					NUMBER	* REV. NO./DATE		
151	Piper Aircraft Inc.	PA-30, PA-39, PA-40	A1EA	CAR 3, FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
152	Piper Aircraft Inc.	PA-31, PA-31-300, PA-31-350, PA-31-325	A2050	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
153	Piper Aircraft Inc.	PA-31P, PA-31T, PA-31TT1, PA-31T2, PA-31T3, PA-31P-350	ABEA	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
154	Piper Aircraft Inc.	PA-32-260, PA-32-300, PA-32S-300, PA-32R-301(H/P), PA-32-301, PA-32-301T	A350	CAR 3	SL2-96	Rev. D 1/01/00	N/A	3/12/04
155	Piper Aircraft Inc.	PA-34-200, PA-34-200T, PA-34-220T	A750	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
156	Piper Aircraft Inc.	PA-36-285, PA-36-300, PA-36-375 (Normal Category)	A950	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
157	Piper Aircraft Inc.	PA 36-285, PA-36-300, PA-36-375 (Restricted Category)	A1050	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
158	Piper Aircraft Inc.	PA-38-112	A1850	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
159	Piper Aircraft Inc.	PA-44-180, PA-44-180T	A1950	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
160	Piper Aircraft Inc.	PA-46-310P, PA-46-350P	A2550	FAR 23	SL2-96	Rev. D 1/01/00	N/A	3/12/04
161	Pirtle, J.C.	Pirtle (Johnson) Rocket 185	776	CAR 4a	SL2-96	Rev. D 1/01/00	N/A	3/12/04
162	Interceptor Aircraft	200, 200A, 200B, 200C, 200D, 400	3A18	CAR 3	SL2-96	Rev. D 1/01/00	N/A	3/12/04
163	Joe Rankin	CP-65	A-720	CAR 4a	SL2-96	Rev. D 1/01/00	N/A	3/12/04
164	Hawker Beechcraft	19A, B19, M19A, 23, A23, A23A, A23 19, A23 24, B23, C23, A24, A24R, B24R, C24R	A1CE	CAR 3	SL2-96	Rev. D 1/01/00	N/A	3/12/04
165	Hawker Beechcraft	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777	CAR 3	SL2-96	Rev. D 1/01/00	N/A	3/12/04

ISSUED			REVISED			CHAMPION AEROSPACE LLC 1230 Old Norris Road Liberty, South Carolina, U.S.A. 29657 © 2009 Champion Aerospace www.championaerospace.com	PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR			
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US Department  
of Transportation  
Federal Aviation  
Administration

**MAJOR REPAIR AND ALTERATION**  
**(Airframe, Powerplant, Propeller, or Appliance)**

Form Approved  
OMB No. 2120-0020  
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N498HP	Serial No. 3246121	
	Make PIPER	Model PA32-32R-301	Series 32
2. Owner	Name (As shown on registration certificate) GRANGER E DARRON	Address (As shown on registration certificate) Address 18903 WINDSOR CREST DR	
		City HOUSTON	State TEXAS
		Zip 77094-3331	Country USA

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name JERRY B. PARKER		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 919 MCKEEVER ROAD		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City ARCOLA	State TEXAS	<input type="checkbox"/> Certificated Repair Station	A&P2150438
Zip 77583	Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 09/06/13 <i>Jerry B. Parker</i>
--	--

**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. A&P2150438IA	Signature/Date of Authorized Individual 09/06/13 <i>Jerry B. Parker</i>
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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

N498HP

09/06/13

Nationality and Registration Mark

Date

INSTALLED BRACKETT AERO FILTER INC. IN ACCORDANCE WITH STC SA693CE.

----- END -----

☒ Additional Sheets Are Attached

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

Number SA693CE

Brackett Aero Filters, Inc.  
7052 Government Way  
Kingman, Arizona 86401

This Certificate issued to

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 21 of the Federal Aviation Regulations under "Certification Basis" on the applicable Data Sheets or Aircraft Specifications.

Original Product Type Certificate Number: As shown on Approved Model List(s)

Make: "

Model: "

Note: FAA - Approved Model List(s) form a part of this Certificate.

Description of Type Design Change: Replace existing engine induction air filter with AC Spark Plug Division filter in accordance with Approved AC Filter List(s).

Limitations and Conditions: This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the airplanes. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until superseded, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 2, 1970

Date of issuance: March 26, 1970

Date received: February 22, 1978, March 3, 1983, June 20, 2000

Date amended:



By direction of the Administrator

*Michael W. Murphy*  
(Signature)  
Manager, Tech. and Admin. Support Staff  
Los Angeles Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA Form 8110-2 (10-68)

Page 1 of 2

This certificate may be transferred in accordance with 49 CFR 21.47.

ITEM	AIR FILTER MODEL NUMBER	TOP DRAWING		AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERT. NUMBER	CERT. BASIS	AML AMENDMENT
		NUMBER	REVISION & DATE					
3	BA-104	BA-104 (6485710)	D 10/17/85	PIPER	PA-32-260 PA-32-300 (S/N 32-7640001 and up) PA-32R-300 PA-32RT-300 PA-32-301 PA-32R-301	A3S0		
				PIPER	PA-34-200T PA-34-220T	A7S0		
				PIPER	PA-36-285 (with Continental 6-285B engine) PA-36-300 PA-36-375	A9S0		







U.S. Department  
of Transportation  
Federal Aviation  
Administration

## MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved  
OMB No. 2120-0020  
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark <b>USA N498HP</b>	Serial No. <b>3246121</b>	
	Make <b>PIPER</b>	Model <b>PA-32R-301</b>	Series
2. Owner	Name (As shown on registration certificate) <b>ARTISAN AVIATION LLC</b>	Address (As shown on registration certificate) <b>5977 WHITESVILLE ROAD, STE 2 COLUMBUS, GA 31904 USA</b>	

### 3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

### 6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	
<b>GARDNER AVIATION SPECIALIST, INC. 500 AVIATION WAY B-5 PEACHTREE CITY, GA 30269 USA</b>	<input type="checkbox"/> U. S. Certified Mechanic	Manufacturer
	<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
	<input checked="" type="checkbox"/> Certified Repair Station	<b>G3SR222J / EASA.145.5128</b>
	<input type="checkbox"/> Certified Maintenance Organization	<b>AIRFRAME</b>

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <i>Samuel M. Nipper</i> <b>SAMUEL M NIPPER</b> 18-September-2007
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### 7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport	
BY	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>G3SR222J</b>	Signature/Date of Authorized Individual <i>Samuel M. Nipper</i> <b>SAMUEL M NIPPER</b> 18-September-2007			

## 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.)

USA N498HP

Sep-18-2007

Nationality and Registration Mark

Date

#### EQUIPMENT REMOVED:

MFG	MODEL	DESCRIPTION	PART NUMBER
GARMIN	GNS530	GPS/NAV	011-00550-10
GARMIN	GA56	GPS ANTENNA	011-00134-00

#### EQUIPMENT INSTALLED:

MFG	MODEL	DESCRIPTION	PART NUMBER	PUBLICATION	P/N	REV
GARMIN	GNS530W	GPS/NAV/COM	011-01064-40	UPGRADE MANUAL	190-00357-06	B
GARMIN	GA35	GPS ANTENNA	013-00235-00	UPGRADE MANUAL	190-00357-06	B

1. VERIFIED THIS AIRCRAFT IS COVERED UNDER THE STC AML. GNS530 WAS REMOVED AND WAS UPGRADED TO A GNS530W UNIT. THE EXISTING LOCATION OF THE UNIT WAS DETERMINED TO MEET FIELD-OF-VIEW REQUIREMENTS WITHOUT THE NEED FOR EXTERNAL ANNUNCIATION. THE EXISTING WIRING AND SHIELDING WAS INSPECTED AND DETERMINED TO BE IAW THE STC AML INSTALLATION DATA. THE EXISTING GA56 ANTENNA WAS REMOVED AND REPLACED WITH GA35 USING THE APPROVED MOUNTING PREVISIONS OF THE PREVIOUS INSTALLATION.

2. REMOVED GARMIN GA56 ANTENNA AND INSTALLED NEW GA35 GPS/WAAS ANTENNA USING THE PREVISIONS LEFT BEHIND FROM THE STANDARD ANTENNA IAW THE GARMIN UPGRADE MANUAL AND STC SA01933LA.

3. REMOVED GARMIN GNS530 UNIT AND REPLACED WITH GNS530W USING THE PROVISION LEFT BEHIND FROM THE REMOVED UNIT. INSTALLATION PERFORMED IAW THE GARMIN UPGRADE MANUAL AND STC SA01933LA.

4. THE GNS530W WAS CONFIGURED IDENTICAL TO THE ORIGINAL GNS530 UNIT. EACH INTERFACE WAS CHECKED OUT IAW THE GNS530W INSTALLATION MANUAL SECTION 5.

5. REMOVED THE AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR THE GNS530 AND INSTALLED A 500W SERIES AFMS P/N 190-00357-63, REV. B OR LATER, FAA APPROVED 12/21/2006 INTO THE AIRCRAFT FLIGHT MANUAL.

6. WEIGHT AND BALANCE NEGLIGABLE. THE CURRENT ELECTRICAL LOAD ANALYSIS REMAINS VALID SINCE THE NEW UNIT CURRENT DRAW IS THE SAME OR LESS AS ORIGINAL UNIT.

7. INCLUDED GARMIN DOCUMENT P/N 190-00357-65 500W SERIES INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA) IN THE AIRCRAFT MAINTENANCE RECORDS.

REFERENCE GARDNER AVIATION SPECIALIST INC. CRS G3SR222J W.O. 22714.

-----THE END-----

☐ ADDITIONAL SHEETS ARE ATTACHED

United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA01933LA

*This Certificate issued to* **Garmin AT, Inc.  
2345 Turner Road S.E.  
Salem, Oregon 97302**

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the Regulations*

*Original Product Type Certificate Number:*

\* See attached Approved Model List (AML)

*Makes:*

No. SA01933LA for list of approved aircraft

*Model:*

models and applicable airworthiness regulations.

## *Description of Type Design*

*Change:* Installation of Garmin Model 400W / 500W Series GPS-WAAS Navigation System in accordance with FAA Approved Garmin 400W Series Master Data List, Drawing No.: 005-C0221-00, Revision "A", dated October 31, 2006, or later FAA approved revision; or FAA Approved Garmin 500W Series Master Data List, Drawing No.: 005-C0221-01, Revision "A", dated October 31, 2006, or later FAA approved revision. For Garmin 400W installations: FAA Approved Garmin 400W Series Airplane Flight Manual Supplement, Document No.: 190-00356-63, Revision "Original", dated November 6, 2006, or later FAA approved revision. For Garmin 500W installation: FAA Approved Garmin 500W Series Airplane Flight Manual Supplement, Document No.: 190-00357-63, Revision "Original", dated November 6, 2006, or later FAA approved revision.

*Limitations and Conditions:* This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator*

*Date of application:* January 31, 2006

*Date reissued:*

*Date of issuance:* November 6, 2006

*Date amended:*



*By direction of the Administrator*

*S. James H. Asher*  
(Signature)

Manager, Systems & Equipment Branch, Los Angeles Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.





February 22, 2007

Subject: STC Permission to use STC SA01933LA for  
Garmin Model 400W / 500W Series GPS-WAAS Navigation System

Consistent with Order 8110.4B and AC 21-40, Garmin AT, Inc. grants permission to Garmin dealers, installers, and owners of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System to use STC SA01933LA and the data associated with it, for the sole and express purpose of installation and approval of the installation of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System, and associated interfaces to other previously approved equipment.

John Macnab  
General Manager  
Garmin AT, Inc.



# FAA COPY

<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>		Form Approved OMB No. 2120-0020	
		For FAA Use Only	
		Office Identification <b>ATL FSDO-11</b> <i>abb</i>	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$ 1000 for each such violation (Section 901 Federal Aviation Act of 1958).			
1. Aircraft	Make <b>PIPER</b>		Model <b>PA-32R-301</b>
	Serial No. <b>3246121</b>		Nationality and Registration Mark <b>N498HP</b>
2. Owner	Name (As shown on registration certificate) <b>BLUE RIDGE AIR SERVICE, INC</b>		Address (As shown on registration certificate) <b>SUITE 300 CITIZENS BANK PLAZA ELIZABETHTON, TN 37643 USA</b>
3. For FAA Use Only			
The data herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43. Date <b>AUG 25 2005</b> Signature <i>Anthony B. Browne</i> <b>ANTHONY B. BROWNE</b>			
4. Unit Identification			
Unit	Make	Model	Serial No.
AIRFRAME	(As described in Item 1 above)		
POWERPLANT			
PROPELLER			
APPLIANCE	Type		
	Manufacturer		
Repair	Alteration		
	<b>X</b>		
5. Type			
6. Conformity Statement			
A. Agency's Name and Address		B. Kind of Agency	
<b>GARDNER AVIATION SPECIALIST, INC.</b> <b>500 AVIATION WAY B-5</b> <b>PEACHTREE CITY, GA 30269</b> <b>G3SR222J</b>		C. Certificate No.	
		<input type="checkbox"/> U. S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	
		<b>G3SR222J / EASA.145.5128</b> <b>AIRFRAME</b> <b>RADIO CLASS I, II, III</b> <b>INSTRUMENT I, II, III, IV</b>	
D. I certify that the repair and/or alteration made to the unit(s) 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 <b>25-August-2005</b>		Signature of Authorized Individual <i>Samuel M. Nipper</i> <b>SAMUEL M. NIPPER</b>	
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 Administration 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
Other (Specify)			
Date of Approval or Rejection <b>25-August-2005</b>		Certificate or Designation No. <b>G3SR222J</b>	Signature of Authorized Individual <i>Samuel M. Nipper</i> <b>SAMUEL M. NIPPER</b>

1944



## 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.)

**N498HP PIPER PA-32R-301 3246121**

THE FOLLOWING WORK WAS ACCOMPLISHED ON WO # 20634

### EQUIPMENT REMOVED:

MFG	MODEL	DESCRIPTION	PART NUMBER	LOC
KING	KN72	VOR/LOC CONVERTER	066-4009-00	FS217.4
KING	KX155A	NAV/COM	069-01032-0101	FS63.0
KING	KLN89B	GPS	066-01148-0101	FS63.1

### EQUIPMENT INSTALLED:

MFG	MODEL	DESCRIPTION	PART NUMBER	MANUAL	REV	LOC
RYAN	9900B, TCAD	XPDR COUPLER	70-2040	32-2301	4	FS59.6
RYAN	9900B, TCAD	REMOTE PROCESSOR	70-2400	32-2301	4	FS215.6
RYAN	9900B, TCAD	ANTENNA,BOTTOM	S72-1750-32L	32-2301	4	FS115.6
RYAN	9900B, TCAD	ANTENNA,TOP	S72-1750-31L	32-2301	4	FS116.6
RYAN	9900B, TCAD	DISPLAY	70-2500	32-2301	4	FS63.4
GARMIN	GDL69	XM SATE RADIO	011-00986-00	190-00355-02	B	FS39.6
DAC	GDC31	DATA CONVERTER	1049-4000-01	1049-2510-01	G	FS41.6
GARMIN	GNS530	GPS/NAV/COM	011-00550-10	190-00181-02	N	FS63.0
GARMIN	GA56	ANTENNA	011-00134-00	190-00181-02	N	FS100.6
GARMIN	GS55	WX ANTENNA	001-01033-00	190-00355-02	B	FS100.6

\*\*\*\*\* GNS530 \*\*\*\*\*  
>INSTALLED THE GARMIN GNS530 UNIT & GA56 ANTENNA PER: INSTALL MANUALS LISTED ABOVE, AND AS A FOLLOW-ON TO STC: SA00864WI. THIS SYSTEM HAS BEEN EVALUATED IN ACCORDANCE WITH THE CRITERIA CONTAINED IN AC 20-138A FOR IFR FLIGHT. SYSTEM ACCURACY IS WITHIN SPECIFIED LIMITS.

### 2. Description of the Alteration:

Installation of the Garmin (GNS530), as a follow-on to STC:SA00864WI, with interface to external altitude encoder and CDI or HSI. Refer to section 4 of this manual for interconnect information. Antenna installation, removal and replacement should be in accordance with applicable provisions of AC43.13-1B and 34.13-2A. THIS SYSTEM HAS BEEN EVALUATED IN ACCORDANCE WITH THE CRITERIA CONTAINED IN AC 20-138A FOR IFR FLIGHT. SYSTEM ACCURACY IS WITHIN SPECIFIED LIMITS.

### 3. Control, Operation Information Refer to the (GNS530) Pilot's Guide.

### 4. Servicing Information N/A.

### 5. Maintenance Instructions: Maintenance of the (GNS530) is "on condition" only. Periodic maintenance is not required. Refer to the (GNS530) Maintenance Manual.

### 6. Troubleshooting Information: Refer to the (GNS530) Maintenance Manual.

### 7. Removal and Replacement Information: Refer to section 3.8 of this manual. If the unit is removed and reinstalled, a functional check of the equipment should be conducted in accordance with section 5.3 of this manual.

### 8. Diagrams: Refer to section 3 & 4 of this manual.

### 9. Special Inspection Requirements: N/A

### 10. Application of Protective Treatments: N/A

### 11. Data: Relative to Structural Fasteners: Antenna installation, removal and replacement should be in accordance with applicable provisions of AC43.13-1A and 43.13-2A. Also, refer to section 3.7 of this manual.

### 12. Special Tools: N/A

### 13. This section is for Computer Category Aircraft Only

### A. Electrical loads: Refer to section 1.3.2 of this manual.

### B. Methods of balancing flight controls: N/A

### C. Identification of primary and secondary structures: N/A

### D. Special Repair methods applicable to the airplane: Antenna installation, removal, and replacement should be in accordance with applicable provisions of AC43.13-1B and 43.13-2A.

### 14. Overhaul Period: No additional overhaul time limitations

### 15. Airworthiness Limitation Section: Refer to the (GNS530) Sample Flight Manual Supplement.

### 16. Revision: To revise this ICA, a letter must be submitted to the local FSDO with a copy of the revised FAA Form 337, and revised ICA.

\*\*\*\*\* 9900B \*\*\*\*\*  
>INSTALLED THE RYAN 9900B & (2) ANTENNAS PER INSTALL MANUALS LISTED ABOVE, AND AS A FOLLOW-ON TO STC: SA1763GL.

☒ ADDITIONAL SHEETS ARE ATTACHED



## 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.)

**N498HP PIPER PA-32R-301 3246121**

2. Installation of the Ryan 9900B TCAD, with interface to an onboard altitude encoder, transponder(s), audio system, and aircraft power. See block diagram in the Installation Manual for interconnect information. Antenna Installation, removal and replacement should be in accordance with applicable provisions of AC43.13-1B and 43.13-2A.
3. Control, Operation Information See Pilot's Operating Handbook.
4. Servicing Information /None.
5. Maintenance Instructions: See Ryan TCAD Instructions for Continued Airworthiness.
6. Troubleshooting Information: If any error indications are displayed on the TCAD, or if the TCAD fails to detect traffic for reasons that could include a malfunction of the equipment, discontinue use of the TCAD and seek avionics assistance.
7. Removal and Replacement Information: See Instructions in the Ryan TCAD Installation Manual. If the unit is removed and reinstalled, a simple functional check of the equipment should be conducted using targets of opportunity. This is accomplished by turning the system on, pressing the ENRT mode button, and verifying traffic in the area is displayed on the TCAD, and the traffic indication agrees with visual estimates. If any work has been done on the aircraft that could affect the TCAD wiring, antenna cables or any interconnected equipment, a thorough checkout in accordance with the Installation Manual should be conducted. Antenna Installation, removal and replacement should be in accordance with applicable provisions of AC43.13-1A and 43.13-2A.
8. Diagrams: See Ryan TCAD Installation Manual
9. Special Inspection Requirements: None, N/A
10. Application of Protective Treatments: None, N/A
11. Data: Relative to structural fasteners, Antenna Installation, removal and replacement should be in accordance with applicable provisions of AC43.13-1A and 43.13-2A.
12. Special Tools: A transponder test set is necessary for a thorough checkout of the Ryan TCAD. See Ryan TCAD Installation Manual.
13. This section is for Commuter category aircraft only:
  - A. Electrical loads: See Ryan TCAD Installation Manual
  - B. Methods of balancing flight controls: N/A
  - C. Identification of Primary and Secondary Structures:
  - D. Special Repair Methods applicable to the airplane: Antenna Installation, removal and replacement should be in accordance with applicable provisions of AC43.13-1B and 43.13-2A.
14. Overhaul Period: No additional overhaul time limitations.
15. Airworthiness Limitation Section: See Ryan TCAD Flight Manual Supplement
16. Revision: To revise this ICA, a letter must be submitted to the local FSDO with a copy of the revised FAA form 337, and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement:

>INSTALLED THE DAC GDC31 GPS CONVERTER, GARMIN GDL69 DATA LINK WITH GA55 WX ANTENNA, ALL PER INSTALL MANUALS LISTED ABOVE. THE UNITS LISTED IN THIS ALTERATION WERE INSPECTED, CALIBRATED AND TESTED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS AND FOUND TO OPERATE AS INTENDED. ALL FUNCTIONS ARE COMPATIBLE TO OTHER AIRCRAFT SYSTEMS.

WEIGHT & BALANCE AND LOGBOOK ENTRIES MADE PER FAR 43.9 AND 91.407

-----THE END-----

☒ ADDITIONAL SHEETS ARE ATTACHED



United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA1763GL

*This certificate issued to* Ryan International Corporation  
4800 Evanswood Drive  
Columbus, OH 43229

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*  
(See Type Certificate Data Sheet No. A7CE for complete certification basis)

*Original Product - Type Certificate Number :* A7CE

*Makes :* Cessna

*Model :* 414A

*Description of Type Design Change:*

Installation of a Ryan International Corporation Traffic and Collision Alert Device (TCAD) Model ATS-9000, in accordance with Ryan TCAD Installation Manual, 32-2101, Rev. 2, dated December 6, 1993, or as applicable, Ryan TCAD Installation Manual 32-2101, Rev. 4, dated April 14, 1997. Installation of a Ryan International Corporation TCAD Model 9900, Model 9900A, or Model 9900B, in accordance with Ryan TCAD Installation Manual, 32-2301, Rev. 4, dated December 17, 1998, or later FAA approved revision. Installation of Ryan International Corporation Traffic Advisory System (TAS) Model 9900BX, in accordance with Ryan TCAD Installation Manual, 32-2351, Rev. 2, dated July 26, 2001 and drawing SA.0213.01, Rev -, dated August 15, 2001, or later FAA approved revisions.

*Limitations and Conditions:*

1. Compatibility of this design change with previously approved modifications must be determined by the installer.

(See continuation sheet 3 of 3)

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application :* April 19, 1992

*Date of issuance :* June 19, 1992

*Date reissued :*

*Date amended :* June 13, 1994, June 2, 1997,  
October 31, 1997, September 19, 2001



*By direction of the Administrator*

*Charles L Smalley*  
(Signature)

Charles L. Smalley  
Manager, Systems and Flight Test Branch  
Chicago Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

FAA Form 8110-2(10-68) PAGE 1 of 3 PAGES

This certificate may be transferred in accordance with FAR 21.47.



United States of America  
Department of Transportation — Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA00864WI

*This certificate is issued to*

GARMIN International  
1200 E 51st St.  
Olathe, KS 66062

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*

*Original Product - Type Certificate Number:* A3S0

*Make:* Piper

*Model:* PA-32

*Description of Type Design Change:* Installation of the Garmin GNS 530, 530A, or GPS 500 (GNC 500 Series TAWS Option) in accordance with the installation data and FAA Approved Airplane Flight Manual Supplements (AFMS) listed on the Continuation Sheet (See page 2 of 2).

*Limitations and Conditions:* Compatibility of this design change with previously approved modifications must be determined by the installer. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* November 10, 1998

*Date received:*

*Date of issuance:* March 21, 2000

*Date awarded:* April 13, 2001; July 25, 2002;  
November 22, 2004



*By direction of the Administrator*

*Harvey E. Nero*  
(Signature)

Harvey E. Nero  
Program Manager  
Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8130-2 (10-68)

PAGE 1 of 3 PAGES

This certificate may be transferred in accordance with FAR 21.47.





<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>				Form Approved OMB No. 2120-0020 <hr/> <b>For FAA Use Only</b> <hr/> Office Identification <div style="text-align: right; font-size: 1.2em;">SO-FSDO-15</div>	
US Department of Transportation Federal Aviation Administration					
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This form is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
<b>1. Aircraft</b>	Make	Piper		Model	PA-32R-301
	Serial No.	3246121		Nationality and Registration Mark	N498HP
<b>2. Owner</b>	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	AMR Combs, Inc.			4050 SW 11th Terrace Ft. Lauderdale, Fl. 33315	
3. For FAA Use Only					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
Sun Aviation, Inc. 3106 Cherokee Dr. Vero Beach, Fl. 32960			U.S. Certificated Mechanic		ECWR470D
			Foreign Certificated Mechanic		
			X Certificated Repair Station		
			Manufacturer		
D. I certify that the repair and/or alteration made to the unit(s) 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 10-31-1998			Signature of Authorized Individual 		
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 Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization		Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canadian Airworthiness Group		
Date of Approval or Rejection 10-31-1998		Certificate or Designation No. ECWR470D		Signature of Authorized Individual 	

## 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.)*

N498HP PIPER PA-32R-301 S/N 3246121

Installed BFGoodrich WX-1000+ Weather Mapping System and Avionics Innovations AI-CD Audio Player w/Comant CI-222 FM Antenna.

The WX-1000+ is protected by a 2A Circuit Breaker and the AI-CD by a 3A Circuit Breaker, both from the Avionics Buss.

The WX-1000+ Display was mounted in the Pilot's Instrument Panel, lower LH side below the Turn Coordinator and the AI-CD in the RH Avionics Stack. A shelf was fabricated and attached to the aircraft aft of the aft Avionics shelf. The WX-1000+ Processor was then mounted on this shelf. The MKR BCN Ant was repositioned 16" Fwd and the WX-1000+ Antenna mounted in the position vacated by the MKR BCN Ant. The CI-222 FM antenna was mounted in the Wing Spar box, Pilot side.

All work was performed in accordance with the Airframe and Equipment Manufacturer's installation instructions, AC43.13-1A Chapter 5 Section 1, Chapter 11 Sections 2,3,4,5 and 7, and AC43.13-2A Chapters 2 and 3.

Aircraft Weight and Balance and Equipment List were amended to reflect this installation.

Instructions for continuing airworthiness: None.

----- E N D -----

☒ Additional Sheets Are Attached

# SUN AVIATION AVIONICS

3106 Cherokee Dr.  
Vero Beach, Fl. 32960  
(561)567-0603

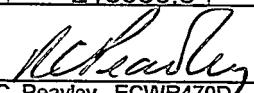
## UPDATED WEIGHT & BALANCE/EQUIPMENT LIST

Reg. Number: N498HP  
Make/Model: Piper PA-32R-301  
Year: 1998  
Serial Number: 3246121

Date: 11-02-1998  
Hobbs: 6.8  
Max Weight: 3615  
Work Order: 08918

New A/C Empty Weight: 2465.9  
New A/C Empty C.G.: 87.98  
New A/C Useful Load: 1149.1

Description	Serial Number	Weight	Arm	Moment	Installed	Removed
Previous Aircraft Empty	3246121	2450.4	87.49	214376.9	n/a	n/a
<b>Removed</b>						
<b>Installed</b>						
FM/CD Player	2352	3.50	64.00	224.0	X	
WX-1000+ Display	JSD09804161	2.30	64.00	147.2	X	
WX-1000+ Processor	JXP09803915	6.67	235.00	1567.5	X	
WX-1000+ Antenna	JSA08802348	2.00	256.00	512.0	X	
CI-222 FM Antenna		1.00	123.00	123.0	X	
<b>New Aircraft Values</b>		<b>2465.9</b>	<b>87.98</b>	<b>216950.6</b>		

  
R. C. Peavley, ECWR470D





# APPLICATION FOR AIRWORTHINESS CERTIFICATE

INSTRUCTIONS — Print or type. Do not write in shaded areas, these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.

I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK <b>N498HP</b>		2. AIRCRAFT BUILDER'S NAME (Make) <b>PIPER</b>		3. AIRCRAFT MODEL DESIGNATION <b>PA-32R-301</b>		4. YR. MFR <b>98</b>	FAA CODING <b>1103218</b>		
	5. AIRCRAFT SERIAL NO <b>3246121</b>		6. ENGINE BUILDER'S NAME (Make) <b>LYCOMING</b>		7. ENGINE MODEL DESIGNATION <b>IO-540-K1G5</b>		41530			
	8. NUMBER OF ENGINES <b>1</b>		9. PROPELLER BUILDER'S NAME (Make) <b>HARTZELL</b>		10. PROPELLER MODEL DESIGNATION <b>HC-13YR-1RF</b>		11. AIRCRAFT IS (Check if applicable) <b>IMPORT</b>			
II. CERTIFICATION REQUESTED	APPLICATION IS HEREBY MADE FOR: (Check applicable items)									
	A	1	<input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERTIFICATE (Indicate category) <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON							
	B		SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)							
		2	LIMITED							
		5	PROVISIONAL (Indicate class)							
		3	RESTRICTED (Indicate operation(s) to be conducted)							
		4	EXPERIMENTAL (Indicate operation(s) to be conducted)							
		8	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)							
			1. CLASS I 2. CLASS II 3. AGRICULTURE AND PEST CONTROL 4. FOREST (Wildlife conservation) 7. CARRIAGE OF CARGO 0. OTHER (Specify) 1. RESEARCH AND DEVELOPMENT 4. RACING 0. TO SHOW COMPLIANCE WITH FAR 1. FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE 2. EVACUATE FROM AREA OF IMPENDING DANGER 3. OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT 4. DELIVERING OR EXPORT 5. PRODUCTION FLIGHT TESTING 6. CUSTOMER DEMONSTRATION FLIGHTS							
	C	6	MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE Restricted Operation and Standard or Limited as applicable)							
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration) IF DEALER, CHECK HERE <input checked="" type="checkbox"/>									
	NAME <b>THE NEW PIPER AIRCRAFT, INC.</b>					ADDRESS <b>2926 PIPER DRIVE, VERO BEACH, FL 32960</b>				
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)									
	<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No) <b>A3SO REV. 25</b>					<input checked="" type="checkbox"/> AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No) <b>98-21</b>				
	AIRCRAFT LISTING (Give page number(s)) <b>N/A</b>					SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) <b>N/A</b>				
	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS									
	<input checked="" type="checkbox"/> CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.417					TOTAL AIRFRAME HOURS <b>613</b>				
						3. EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) <b>N/A</b>				
	D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.									
	DATE OF APPLICATION <b>OCT 26 1998</b>					NAME AND TITLE (Print or type) <b>WM. R. MOREU</b>				
					AGENT SIGNATURE <b>WM. R. MOREU</b>					
IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete if FAR 21.183(d) applies)									
	2	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)			3	CERTIFICATED MECHANIC (Give Certificate No.)			6	CERTIFICATED REPAIR STATION (Give Certificate No.)
	5	AIRCRAFT MANUFACTURER (Give name of firm)								
	DATE		TITLE				SIGNATURE			
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks in items A and B)									
	A. I find that the aircraft described in Section I or VII meets requirements for					THE CERTIFICATE REQUESTED 4. AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE				
	B. Inspection for a special flight permit under Section VII was conducted by					FAA INSPECTOR CERTIFICATE HOLDER UNDER FAA DESIGNEE FAR 65 FAR 121 127 or 135 FAR 145				
	DATE <b>OCT 26 1998</b>		DISTRICT OFFICE <b>CE44</b>		DESIGNEE'S SIGNATURE AND <b>K.S. MC GLOTHLIN DOA S0-1</b>			FAA INSPECTOR'S SIGNATURE <b>1</b>		

<b>VII. AIRWORTHINESS DOCUMENTATION</b> <small>(FAA use only)</small>		<b>VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST</b>			
<input checked="" type="checkbox"/>	<b>A. Operating Limitations and Markings in Compliance with FAR</b> 91.9 <span style="float: right;">XXX As Applicable</span>	<b>F. CERTIFICATION</b> — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described			
<input checked="" type="checkbox"/>	<b>B. Current Operating Limitations Attached</b>				
<input checked="" type="checkbox"/>	<b>C. Data, Drawings, Photographs, etc. (Attach when required)</b>				
<input checked="" type="checkbox"/>	<b>D. Current Weight and Balance Information Available in Aircraft</b>				
<input checked="" type="checkbox"/>	<b>E. This Inspection Recorded in Aircraft Records</b>				
<b>G. Statement of Conformity, FAA Form 8130-9 (Attach when required)</b>		<b>E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)</b>			
<b>H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)</b>					
<b>I. Previous Airworthiness Certificate Issued in Accordance with</b> FAR <span style="float: right;">CAR</span> <span style="float: right;">(Original Attached)</span>					
<b>J. Current Airworthiness Certificate Issued in Accordance with</b> FAR <span style="float: right;">21.183 (a) per 21.273</span> <span style="float: right;">(Copy attached)</span>					
<b>NAME AND TITLE (Print or type)</b> <span style="float: right;">SIGNATURE</span>					
<b>D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS</b>		<b>C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT.</b> PILOT <span style="float: right;">CO-PILOT</span> <span style="float: right;">NAVIGATOR</span> <span style="float: right;">OTHER (Specify)</span>			
				<b>B. DESCRIPTION OF FLIGHT</b> CUSTOMER DEMONSTRATION FLIGHTS <input type="checkbox"/> (Check if applicable)	
				FROM <span style="float: right;">TO</span>	
				VIA <span style="float: right;">DEPARTURE DATE</span> <span style="float: right;">DURATION</span>	
				<b>A. DESCRIPTION OF AIRCRAFT</b> REGISTERED OWNER <span style="float: right;">ADDRESS</span>	
				BUILDER (Make) <span style="float: right;">MODEL</span>	
				SERIAL NUMBER <span style="float: right;">REGISTRATION MARK</span>	
				<b>C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS</b>	
				<b>DATE OF APPLICATION</b> <span style="float: right;">NAME AND TITLE (Print or type)</span> <span style="float: right;">SIGNATURE</span>	
				<b>A. MANUFACTURER</b> <span style="float: right;">ADDRESS</span>	

## UNITED STATES OF AMERICA

## DEPARTMENT OF TRANSPORTATION--FEDERAL AVIATION ADMINISTRATION

**STANDARD AIRWORTHINESS CERTIFICATE**

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4. CATEGORY
N498HP	PIPER PA-32R-301	3246121	NORMAL

## 5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

NONE

## 6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
OCT 26 1998	 K.S. MC GLOTHLIN	DOA SO-1

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

6. 2. 1.

1.

2.

3. 4. 5.

6.





OCTOBER 28, 1998

FAA AIRCRAFT REGISTRY  
CENTRAL RECORDS UNIT  
ATTN: AFS-753  
P.O. BOX 25504  
OKLAHOMA CITY, OK 73125

**AIRCRAFT STANDARD PAPERWORK**

ISSUED: 10/26/98  
MODEL: PA-32R-301  
SERIAL #: 3246121  
REGISTRATION #: N498HP  
ISSUED BY: K.S. McGLOTHLIN

**PACKAGE CHECKLIST**

X STANDARD AIRWORTHINESS CERTIFICATE (8100-2)  
N/A REGISTRATION ASSIGNMENT CARD (8050-56)  
X APPLICATION FOR AIRWORTHINESS CERTIFICATE (8130-6)

FAACoverLetterStandard  
Revised: 4/21/97  
148-10  
500.15.003

100