8
US Department
of Transportation
Federal Aviation Administration

# MAJOR REPAIR AND ALTERATION

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
	or FAA Use Only

of Transp Federal A Administ	Viation	(Airframe	P, Powerplant,	Propeller,	or Appliance	,		For FAA Use Only
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instruct	ions and dis	nnt or type all e	ntries. See Title	14 CFR §43.9	9, Part 43 Appen	div D. and A.D.	MALO I THE PARTY TO SHARE THE PARTY OF THE P	ubsequent revision there result in a civil penalty fo
such vie	olation. (49	U.S.C. §46301(a)	) inis report is	required by la	w (49 U.S.C. §44	701). Failure to	43.9-1 (or s	ubsequent revision there
	ivation	allty and Registra	ation Mark					result in a civil penalty fo
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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.

Description of Work Accomplished (If more space is required, attach add	ditional sheets. Identify with aircraf	ft nationality and registers		
		and registration ma	ark and date work completed.)	
		N420SE	7-20-2019	
Completed the installation of the GT AML STC Installation Manual #190-0 required. ADS-B function appears no no discrepancies. PAPR flight will be	TX 335 Mount, GTX 335 LRU at 00734-10, Revision 12 dated Ap	Nationality and Registrati nd associated wiring with re oril 2019. Completed sees	on Mark Date	Part 23
required. ADS-B function appears no discrepancies. PAPR flight will be plareshield, affixed to the underside of RG-400 Coaxial cable was used and insure compliance with minimum cat 190-00734-10, Revision 12 dated Appendix	ordered to verify ADS-B minim of the composite structure. Coa the excess was coiled and see	Dieted transponder certificat num broadcast message ele xial cable routed to the GTX	ion as required by 14 CFR 9 ment. Mounted antenna bel X 335 unit. Approximately 6	s as 1.413 v hind
				THE COMMENT OF THE PARTY OF THE
				A PERSONAL PROPERTY OF PERSONS AND PERSONS ASSESSED.

Work Order: 190517/0001

Date: June 26, 2019 ADSB installation

#### A & M Aerospace

P.O. Box 610 McLoud, OK 74851 Adam Brandt • Adam@AMaerospace.biz • (409)502-7176 CRS#: 8G8R177D

**AIRCRAFT** 

N420SE

CIRRUS DESIGN CORP SR22 S/N: 2293

**BILL TO** 

CAROL ELLINGHOUSE

3038779775

# 1. Install Garmin GTX 335 w/ GPS ADSB OUT

#### Corrective Action:

 1-1. Configuration Research and Documentation: Existing Transponder Antenna Meets TSO-C74c as required by 190-00734-10\_12\_335. - Replacement not

Dual NON-WAAS Garmin GA-56 GPS antenna previously installed supporting dual GNS-430 Navigators. NEW WAAS GA-35 Antenna Required. Circuit Breaker Previously utilized for the GTX 327 is serviceable and will be reused for the GTX335. GA 35 antenna mounted under the glare shield, collocated with existing GPS #1 and GPS #2 GA 56 GPS antennas.

-- labor: 4.9 hrs @ \$95.00

1-2. Removed GTX327 transponder and all consequently unutilized wiring and connectors.

1-3. Removal of Gilliam Code Wiring to the GTX connector. Existing blind encoder was utilized by the GTX327 and STec 55x via Gilliam code. The new GAE12 is unable to supply Gilliam code and the STEC is unable to recieve serial altitude data. Accordingly, the ACK encoder will remain installed to facilitate autopilot altitude operations. GAE12 will be installed to facilitate altitude encoding at 20 ft. increments to the GTX335 ADS-B Transponder. Dual encoder installation is authorized by AC 43-6D. Only the GAE12 will require 24m certification and -- labor: 1.5 hrs @ \$95.00

1-4. Completed the installation of the GTX 335 Mount, GTX 335 LRU and associated wiring with reference to Garmin GTX 335 Part 23 AML STC Installation Manual #190-00734-10, Revision 12 dated April 2019. Completed configuration and functional checks as required. ADS-B function appears nominal via AV-15 test set. Completed transponder certification as required by 14 CFR 91.413 with no discrepancies. PAPR flight will be ordered to verify ADS-B minimum broadcast message element. -- labor: 6.7 hrs @ \$95.00

#### Parts Installed:

1 x 010-01214-40 GTX335 TRANSPONDER w/ GPS @ \$3,195.00

#### Miscellaneous:

Wiring and Connectors @ \$100.00

Shipping & Handling @ \$150.00

labor: \$1,377.50 • parts: \$3,195.00 • misc: \$250.00 • sub-total: \$4,822.50

#### 2. Install WAAS-GPS Antenna

#### Corrective Action:

2-1. Mounted antenna behind glareshield, affixed to the underside of the composite structure. Coaxial cable routed to the GTX 335 unit. Approximately 6.75 ft. of RG-400 Coaxial cable was used and the excess was coiled and secured behind the glareshield with reference to AC 43-13.1B to ensure compliance with minimum cable loss requirements with reference to Garmin GTX 335 Part 23 AML STC Installation Manual #190-00734-10, Revision 12 dated April 2019. Antenna mount rigidity and operation are satisfactory. Visibility to the GPS constellation is nominal.

-- labor: 8.0 hrs @ \$95.00

#### Parts Installed:

1 x 013-00235-00 GA35 Antenna @ \$0.00

labor: \$760.00 • parts: \$0.00 • misc: \$0.00 • sub-total: \$760.00

# 3. Install Garmin GAE 12 Altimeter Encoder

#### Corrective Action:

3-1. GAE Mounting and Plumbing installed and tested with reference to Garmin GTX 335 Part 23 AML STC Installation Manual #190-00734-10, Revision 12 dated April 2019.
 labor: 3.1 hrs @ \$95.00

#### Parts Installed:

1 x 011-03080-00 SUB-ASSY, ALTITUDE ENCODER @ \$0.00

labor: \$294.50 • parts: \$0.00 • misc: \$0.00 • sub-total: \$294.50

### 4. Complete IFR Recertification.

#### Corrective Action:

4-1. Initial run-up displayed a static system leak in excess of 6,000 ft/min. Found loose poly-flex b-nut on the back side of the pilot's primary flight display and at the "T" fitting secured to the S-tec air/ground determination switch. Secured all connections and finished the IFR certification with no further discrepancies.
 labor: 3.0 hrs @ \$95.00

labor: \$285.00 • parts: \$0.00 • misc: \$0.00 • sub-total: \$285.00

#### Miscellaneous

IFR Certification with dual altimeters/ADS-B @ \$450.00

Labor: \$2,717.00 Parts: \$3,195.00 Misc: \$700.00 Sales Tax: \$0.00 **Total: \$6,612.00** 

This invoice is still OPEN. Prices may change or additional parts or labor may be required. Contact Adam Brandt • (409)502-7176 • Adam@AMaerospace.biz.

20732 Lassen Street, Chatsworth, CA 91311 Phone: (818) 993-3842 Fax: (818) 993-4525

# CERTIFICATION OF CONFORMANCE

AAT Part Number:

AT575-93GW-TNCF-000-RG-27-NM

Customer PO Number:

283493

Customer Part Number:

013-00235-00 GA35

Serial Number:

167887

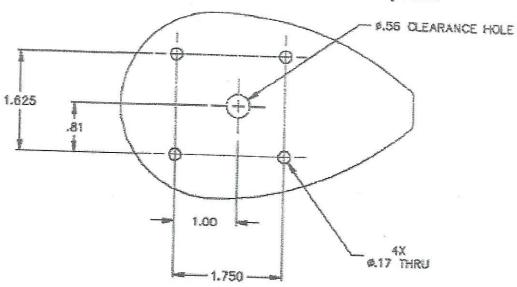
AeroAntenna Technology, Inc. certifies that the above mentioned antenna was manufactured in accordance with specifications and standard quality assurance practices and procedures, and meets all requirements as stated in the above purchase order as well as shipment and delivery instructions.

Quality Assurance: Benjamin Rubeni

Date: 5/16/2019

# CERTIFICATION OF CONFORM

NOT TO SCALE. Use an accurate measuring instrument for installation. A calibrated torque wrench must be used during installation. Torque value for mounting screws is 13-15 in lbs. The 4 supplied mounting screws must be used and no substitutes are allowed. Do not deviate from these installation methods or use alternate screws as damage to the antenna may result.



#### United States of America

# Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

Number SA01714WI

This cretificate issued to

Garmin International, Inc. .200 East 151st Street Olathe, KS 66062

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 13\* of the Federal Aviation

Griginal Broduct - Type Certificate

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

Make

-SA01714WI dated May 1, 2013 or later FAAapproved revision for list of approved aircraft models

Model

and applicable airworthiness regulations.

Lesception of Type Lesign 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

#### Data Required:

- (I) Garmin Master Drawing List (MDL) 005-00734-04, Revision I, 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 I, 2013 or later FAA-approved revision.

Similations 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
- (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 Amiatica Administration.

State of application: August 7, 2012

Late reissued

Late of issuance: May 1, 2013

Gale amended: April 29, 1014, March 8, 2016

By direction of the Alministrator

Michael Warren ODA STC Unit Administrator

ODA-240087-CE

Garmin International, Inc.

(Title)

Any alteration of this certificate is positionable by a fine of not exceeding \$1,025, or imprisonment not exceeding 3 years, or both. FAA FORM SING-2(10-62) BACE L OF 3 PACES

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	thority/Country:	A der der	Maria nur nan arts, narro, cur			3. Form Tracking Number:
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4. Organi	zation Name and Address:	AND DESCRIPTION OF THE PARTY OF	FAA Form 8130-3, AIRV	YORTHINESS A	PPROVAL TAG	*
	THE SHIP (AND EASTER)	GARMIN In	nternational 1200 E. 151st S Certificate Number PT37	t. Olathe. KS	36062	5. Work Order/Contract/Invoice Number: 162033489
6. Item:	7. Description:	8	. Part Number:	9. Quantity:	10. Serial Number:	
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4. Organi	zation Name and Address:	GARMIN	International 1200 E. 151st S	St Olatha KS	SENES	5. W	ork Order/Contract/Invoice
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		Includes 011-03300-40	1	3EE424505	New
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	on-approved design data sp	ecified in Block 12.	Certifies and descr Federal R return to	legulations, part 43 and in respect to the	12, the work identified in Block 11
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# U.S. Department of Transportation Federal Aviation Administration ADS-B Performance Monitor

# **Public ADS-B Performance Report**

Broadcast ICAO: A4FD34 (51176464) Tail Number: N420SE Last Flight Id: N420SE

Period: 07-13-2019 15:05:08 to 07-13-2019 16:45:25

#### **Operation Analysis Overview**

Airborne 1090
Surface 1090
Surface RWY/Taxi 1090

Airborne UAT
Surface UAT
Surface RWY/Taxi UAT

#### Prepared By

Surveillance and Broadcast Services (SBS) Program ADS-B Performance Monitor

July 13, 2019

Note: Items high-lighted in red within this report indicate the ADS-B Out system installed on this aircraft failed to meet the corresponding performance requirement as specified in § 91.227.

For more information on this report, reference the User's Guide.

#### **Operation Summary**

**Operation Id:** 405112095

Start Time: 07-13-2019 15:05:08

End Time: 07-13-2019 16:45:25

Broadcast ICAO: A4FD34 (51176464)

Duration: 01:40:17

Mod: 01:40:17

Rule: 01:13:29

Tail Number:

N420SE

Reports: 23548

Best Msg: 6976

TIS-B Client: 0.0%

Country:

United States - Civil

Stationary: No

Baro Alt (ft):

1075 - 11625

**Detection:** 

✓ Airborne Surface

Link Version:

2

Out Capability:

1090

In Capability:

Last Flight Id: N420SE

Operator:

#### Airborne 1090 Analysis Summary

Start Time: 07-13-2019 15:05:08

End Time: 07-13-2019 16:45:25

Total Reports: 23548

Duration(s): 01:40:17

Mod: 01:40:17

Rule: 01:13:29

**Processed Reports:** 6957

**Link Version:** 

2

Out Capability: 1090

In Capability:

Emitter Category: 1 - Light (<15,500lbs)

Antenna(s): 1 - Single

Last Flight Id: N420SE

#### **Exceptions:**

NIC	NACp	NACv	SIL	SDA
No	No	No	No	No

## **Missing Elements**

Category	NACp	NACv	Vel	Flight Id	Mode 3A	Emit Cat	Baro Alt	Geo Alt
% Fail	0.04%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.00%
Max dT	00:00:01	00:00:00	00:00:02	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00
MCF	1	0	1	0	0	0	0	0

# Integrity & Accuracy

Category	NIC	NACp	NACv	SIL	SDA
% Fail	0.01%	0.00%	0.00%	0.04%	0.04%
Max dT	00:00:00	00:00:00	00:00:00	00:00:01	00:00:01
MCF	1	0	0	1	1

Category	NIC	NACp	NACv	SIL	SDA
Avg	9.0	10.0	2.0	3.0	2.0
Min	0	8	2	0	0
Max	9	10	2	3	2

# Kinematics

	Velocity	Position A	
% Fail	0.00%	0.00%	
MCF	0	0	

Baro Alt	Baro Alt A	Geo Alt	Geo Alt A
0.00%	0.00%	0.00%	0.00%
0	0	0	0

#### **Other Checks**

	Emitter Cat	Mode 3A
% Fail	0.00%	0.00%
Max dT	00:00:00	00:00:00
MCF	0	0

	Flight ID	Tail # Mismatch	Non-US	No "N"	Only "N"	Partial	Spaces	All Spaces	Illegal Char	Unavail Char	FP ID Mismatch
% Fail	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Max dT	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	
MCF	0	0	0	0	0	0	0	0	0	0	

	Air on Ground
% Fail	0.00%
Max dT	00:00:00
MCF	0

Note: The above FP ID Mismatch field can be disregarded when no flight plan was filed for the associated flight.

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Erie Municipal Airport 395 Airport Drive Erie, Colorado 80516

# **N420SE** AIRCRAFT STATUS REPORT

MAKE Cirrus MODEL SR22 S/N 2293 Hobbstime 1398.8 Date: **JAN 9 2020** FLT Hobbs Time: **1240.4** + 12.13 Annual Inspection Due: 1252.53 **JAN 2021** 50 Hour Oil change and Inspection **FLT METER** 1290.4 100 Hour Inspection FLT METER 1340.4 **ELT Battery Due MAY 2024** Transponder, Altimeter, Encoder, and Static System Certification **JUNE 2021** due every 24 months: Magneto Inspection due every 500 hours: FLT METER 1645.7 Continental Service Bulletin No. MSB645 (Impulse Coupling) due Left: **FLT METER** 1645.7 every 500 hours Alternator # 1 500 hours FLT METER 1645.7 MCU (Corrosion Inspection) SA06-06 due every Annual or 100 JAN 2021 hours: OR FLT METER 1340.4 Number 2 battery due every 24 months or every 500 hours: **JAN 2022** OR FLT METER 1740.4 TKS filter **DEC 2020** OR FLT METER 2439.8 CAPS Rocket Motoer due every 10 years: **SEPT 2026** CAPS Parachute due every 10 years: **SEPT 2026** CAPS Reefing Line Cutters due every 6 years: **OCT 2020** EMA Controller AAIR OCT 2021 Pilot seat inflator assembly Has 20902-005 10 years **OCT 2028** Co-Pilot seat inflator assembly Has 20902-005 10 years **OCT 2028** Rudder Aileron interconnect bungee Every 5 years **JAN 2025** Oxygen Bottle Assembly REG Overhaul **NOV 2023** Cylinder retirement **SEPT 2021** TAT Turbocharger system fluid hoses EACH 10 Years **AUG 2026** TAT TAILPIPE V-BAND CLAMP REPLACEMENT EACH 450HRS FLT METER 1595.7 TAT SB08-02 PRV Y-Duct inspection EACH 100HRS FLT METER 1340.4 TAT SB11-03 Support rods alignment EACH 100HRS FLT METER 1340.4 TAT SB11-04 Oil supply line screen cleaning FLT METER EACH 100HRS 1340.4 TAT SB12-02 ENG FUEL PUMP LEAK CHECK Each cowl removal TAT SI11-01 SLIP JOINTS INSPECTION Each cowl removal TAT SB09-01 EXHAUST MANIFOLD EACH 50HRS FLT METER 1290.4 TAT SI08-01 BREATHER TUBE CLEANING EACH 50HRS FLT METER 1290.4 TAT SI08-05 INDUCTION FILTER CLEANING EACH 100HRS FLT METER

TAT SI08-04 EXHAUST HEAT EXCHANGER

1340.4

1340.4

EACH 100HRS FLT METER

LIFT BUTTON FOR OFF POSITION



8/26/20



HOBBS

1 3 9 8 6 - 1

HOURS

FLIGHT

1 2 4 5 8 1

HOURS



\*URBO COMPONENTS, Inc 545 E. Acequia salia, CA 93292 -800-523-4809 7-3600 (Local / Intl.) -627-2873 (Fax)



Approved Turbo Components

Received Date:07/13/16	www.approvedturbo.com	Computation on the contraction
Received Date:0//13/16	CUSTOMER INFORMATIO	N Invoice Number: 13382
Contact Name: Terry Shafer P.O. 5659		
Shaler F.O. 3039	<i>y</i>	
Company Name: Wester A:		
Company Name: Vector Air		
Address: 205 Aims (D)		
Address: 395 Airport Drive		
Erie Municipal Airport		
City: Enio State: CO 7: 00516		
City: Erie State: CO Zip: 80516 Cour	try:	
Phone: 303-664-0633 Fax: Cell N	-	
Phone: 303-664-0633 Fax: Cell N	lo: Email:	
Drop Ship		
Company Name: Contact Name:	Phone:	
Address:	281	
City: State: Zip	): •	=
	1	
	<b>UNIT INFORMATION</b>	
Manufacturer: Hartzell Engine Technologies	Description: Absolute	C
	Description: Absolute	Controller
Part Number: 470688-0005 Alt	ternate Part Number: C1	65004 0501
	restriction. Ci	03004-0301
Serial Number: JKN00497		
Maintenance Requested: Overhaul		
Special Instructions:		
FINAL DISPOSITION OF UNIT		ADDITIONAL FORMS ATTACHED
Overhauled and returned to service		ADDITIONAL FORMS ATTACHED
<u>DOCUMENTATION</u>		1002-1 Dessiving Insurate 57
FAA Form 8130-3 Overhaul		1002-1 Receiving Inspection
DATA USED TO PERFORM MAINTE	NANCE	1002-2 Preliminary Inspection ⊠
400999-0000 Rev C/ATC/FAA Approve	d Data	1002-9 Penetrant Inspection
EA09-26   /		1002-5 Turbo Final [
Fittings: W/N Gaskets: WORK OPPERSON	V (NIConfirmed D. G	1002-6 Control Final
WORK ORDER FINAL INSPECTION	RV.	1002-7 Parts Issue 🖂
		1015 Hidden Damage
09	_Completed Date 07-19-16	
Greg Flores		

FAA APPROVED REPAIR STATION NUMBER 07TR2100

# WORK ORDER NUMBER

35114

# APPROVED TURBO COMPONENTS, Inc

1545 E. Acequia Visalia, CA 93292 1-800-523-4809 559-627-3600 (Local / Intl.) 559-627-2873 (Fax)



Approved Turbo Components

Received Date:07/13/16	www.approvedturbo.com	ubbrosed intho combinency
10001/04 Date.0//15/16	CUSTOMER INFORMATION	Invoice Number: 13382
Contact Name: Terry Shafer P.O. 5659		
22. J Shalet 1.0. 3039		
Company Name: Vector Air		
All All		
Address: 395 Airport Drive		
Erie Municipal Airport		
Dire Wunterpar Airport		
City: Erie State: CO Zip: 80516 Coun		
City: Erie State: CO Zip: 80516 Coun	try:	
Phone: 303-664-0633 Fax: Cell N	o: Email:	
	c. Linan.	
Dron Chin [7]		
Drop Ship Company Name: Contact Name:	1.00000	
Company Name: Contact Name:	Phone:	
City: State: Zip	:1	
	•	
	,	
	UNIT INFORMATION	
Manufacturer: Hartzell Engine Technologies		
and the recurrences	Description: Absolute (	Controller
Part Number: 470688-0005 Alt	ernate Part Number: C16	5004.0504
111	ciliate Fait Number: C16:	5004-0501
Serial Number: JKN00497		
Maintenance Requested: Overhaul		
Special Instructions:		
FINAL DISPOSITION OF UNIT		ADDITIONAL FORMS ATTACHED
Overhauled and returned to service	*	DETITION ET ORING ATTACHED
DOCUMENTATION		1002-1 Receiving Inspection ⊠
FAA Form 8130-3 Overhaul		1002-2 Preliminary Inspection ⊠
DATA USED TO PERFORM MAINTE	NAINCH	1002-9 Penetrant Inspection
400999-0000 Rev C/ATC/FAA Approved	1 D .	1002-5 Turbo Final
EA09-26		1002-6 Control Final
Fittings: W/N Gaskets: Y/N Brackets:	V (NIConfirmed Pro C)	1002-7 Parts Issue 🛛
WORK ORDER FINAL INSPECTION	WD W7	1015 Hidden Damage
-///	_Completed Date 07-19-16	water [
Constitution To		

**Greg Flores** 

FAA APPROVED REPAIR STATION NUMBER 07TR2100

Full details of the maintenance performed on this unit are available upon request

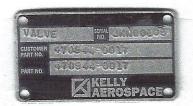
Authority/Country  FAA/United States  AUTHORIZED RELEASE CERTIFICATE  FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG						3. Form Tracking Number: 018787	
I. Organ	ization Name and Address; Approved Turbo Compo 1545 E. Acequia Visalia, CA 93292 USA USA	No	A Repair Station . 07TR2100 00)523-4809		5. Work Ord Number: 35114	der/Contract/Invoice	
. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11	1. Status/Work:	
1	HET CONTROLLER	470688-0005	1	JKN00497		OVERHAULED	
	ALTERNATE APPROVED F	DANCE WITH:Hartzell Engine Techs. Ovhl. M. VORK ORDER NUMBER 35114 PART NUMBER: C165004-0501		octive of New Bate 04/1	112015		
a. Certii	iles the items identified above were	manufactured in a few way	14a.				

13a. Certifies the items identified above were	manufactured in conformity to:	14a.	
Approved design data and are  Non-approved design data spe	in a condition for safe operation.	Certifies that unless otherwise specified in Blor and described in Block 12 was accomplished in Federal Regulations, part 43 and in respect to return to service.	n accordance with Title 14 Code of
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: O7TR210O
3d. Name (typed or Printed):	13e. Date (dd/mmm/yyyy):	14td. Name (Typed or Printed): Greg Flores	14e. Date (dd/mmm/yyyy): 19/Jul/2016

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country ness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworth rds must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA FORM 8130-3 (02-14)

MSN: 0052-00-012-9005



URBO COMPONENTS, Inc 545 E. Acequia salia, CA 93292 -800-523-4809 7-3600 (Local / Intl.) -627-2873 (Fax)



**Approved Turbo Components** 

Keceived Date: 07/13/16	HETOLER NIEGOTO.com	
_	SUSTOMER INFORMATION	Invoice Number: 13382
Contact Name: Terry Shafer P.O. 5659		
Company Name: Vector Air		
Address: 395 Airport Drive Erie Municipal Airport		
City: Erie State: CO Zip: 80516 Country:		
Phone: 303-664-0633 Fax: Cell No:	Email:	
Dron Cl		
Drop Ship Company Name: Contact Name: Ph		
Company Name: Contact Name: Ph	one:	
City: State: Zip:		
•	4	
	UNIT INFORMATION	
Manufacturer: Kelly Aerospace Descri	ption: Pressure Relief Valve	
Part Number: <b>470944-0017</b> Altern	ate Part Number: 470	944-9017
Serial Number: JKN00105		
Maintenance Requested: Overhaul Special Instructions:		
FINAL DISPOSITION OF UNIT		ADDITIONAL FORMS ATTACHED
Overhauled and returned to service		ADDITIONAL FORMS ATTACHED
<u>DOCUMENTATION</u>		1002-1 Receiving Inspection ⊠
FAA Form 8130-3 Overhaul		1002-2 Preliminary Inspection ⊠
DATA USED TO PERFORM MAINTENAN	NCE	1002-9 Penetrant Inspection
400999-0000 Rev B		1002-5 Turbo Final
EA09-26	21	1000 ( 6
Fittings: Y/O Gaskets: N Brackets: Y/	Confirmed By: 62	1002-7 Parts Issue
WORK ORDER FINAL INSPECTION BY:	100 MD Maria and Maria 100 MD Maria 100 MD	1015 Hidden Damage
Co	ompleted Date 07-19-16	

Greg Flores

#### WORK ORDER NUMBER

35115

APPROVED TURBO COMPONENTS, Inc.

1545 E. Acequia Visalia, CA 93292 1-800-523-4809 559-627-3600 (Local / Intl.)

559-627-2873 (Fax) www.approvedturbo.com Approved Turbo Components

Received Date: 07/13/16 **CUSTOMER INFORMATION** Invoice Number: 13382 Contact Name: Terry Shafer P.O. 5659 Company Name: Vector Air Address: 395 Airport Drive Erie Municipal Airport City: Erie State: CO Zip: 80516 Country: Phone: 303-664-0633 Fax: Cell No: Email: Drop Ship Company Name: Contact Name: Phone: Address: City: State: Zip:

UNI	TII	VFC	RMA	TION
410000000000000000000000000000000000000		- The second second	Contract Con	The State of the S

Manufacturer: Kelly Aerospace

Description: Pressure Relief Valve

Part Number: 470944-0017

Alternate Part Number: 470944-9017

Serial Number: JKN00105

Maintenance Requested:

Overhaul

Special Instructions:

# FINAL DISPOSITION OF UNIT

Overhauled and returned to service

#### **DOCUMENTATION**

FAA Form 8130-3 Overhaul

# DATA USED TO PERFORM MAINTENANCE

400999-0000 Rev B

EA09-26

Fittings: Y / O Gaskets: K / N Brackets: Y / O Confirmed By: \_\_\_\_\_ 1002-7 Parts Issue WORK ORDER FINAL INSPECTION BY: 1015 Hidden Damage

Completed Date 07-19-16

#### ADDITIONAL FORMS ATTACHED

1002-1 Receiving Inspection ⊠

1002-2 Preliminary Inspection ⊠

1002-9 Penetrant Inspection

1002-5 Turbo Final

1002-6 Control Final

1015 Hidden Damage

Greg Flores

FAA APPROVED REPAIR STATION NUMBER O7TR2100

Full details of the maintenance performed on this unit are available upon request

g Civil Aviation rity/Country

**FAA/United States** 

# **AUTHORIZED RELEASE CERTIFICATE**

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

018788

97.	
١.	Organization Name and Address:

Approved Turbo Components, Inc. 1545 E. Acequia Visalia, CA 93292 USA

2.

FAA Repair Station No. 07TR2100 (800)523-4809

5. Work Order/Contract/Invoice Number:

35115

. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	KAES P.R. VALVE	470944-0017	1	JKN00105	OVERHAULED
				·	
Rema	rke:				

OVERHAULED IN ACCORDANCE WITH: Kelly Aerospace Ovhl. Manual P/N 400999-0000 Rev B Rev. Date 10/22/2009 FULL DETAILS HELD ON WORK ORDER NUMBER 35115 ALTERNATE APPROVED PART NUMBER: 470944-9017

13a. Certifies the items identified above were m	anufactured in conformity to:	14a.	
Approved design data and are in  Non-approved design data specif		Certifies that unless otherwise specified in Blo and described in Block 12 was accomplished Federal Regulations, part 43 and in respect to return to service.	in accordance with Title 14 Code of
13b. Authorized Signature:  13d. Name (typed or Printed):	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: O7TR210O
ion. Value (yper or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): Greg Flores	14e. Date (dd/mmm/yyyy): 19/Jul/2016

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworth ress authority of the country specified in block 1. Statements in block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance reco must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



FURBO COMPONENTS, Inc 1545 E. Acequia isalia, CA 93292 1-800-523-4809 17-3600 (Local / Intl.) 9-627-2873 (Fax)



Approved Turbo Components

Received Date:07/13/16	www.upproveuturoo.com	
DEC.0713/10	CUSTOMER INFORMATIO	N Invoice Number: 13382
Contact Name: Terry Shafer P.O. 5659		
Company Name: Vector Air		
Address: 395 Airport Drive		
Erie Municipal Airport		
City: Fwig States CO 7: 00546		
City: Erie State: CO Zip: 80516 Country:		
Phone: 303-664-0633 Fax: Cell No:	Email.	
Con No.	Email:	
Drop Ship 🗌		
Company Mama	r	
Address:	none:	
City: State: Zip:		
	UNIT INFORMATION	
Manufacturer: Hartzell Engine Technologies	Description: Wastega	ite
Don't March and 4700 42 000 4	-	
Part Number: 470842-0004 Altern	nate Part Number: C1	65006-0304
Serial Number: JHN00480		
Serial I tallioof. SIRITUU40U		
Maintenance Requested: Overhaul		
Special Instructions:		
FINAL DISPOSITION OF UNIT		ADDITIONAL FORMS ATTACHED
Overhauled and returned to service		ESSITION DI ORMS ATTACHED
<u>DOCUMENTATION</u>		1002-1 Receiving Inspection ⊠
FAA Form 8130-3 Overhaul		1002-2 Preliminary Inspection ⊠
DATA USED TO PERFORM MAINTENA	NCE	1002-9 Penetrant Inspection
400999-0000 Rev C/AFC/FAA Approved D EA09-26	ata	1002-5 Turbo Final
77 // 01	000 c 1-	1002-6 Control Final 🖂
WORK ORDER FINAL INSPECTION BY	OConfirmed By.4	1002-7 Parts Issue 🛛
		1015 Hidden Damage
	ompleted Date 07-19-16	

FAA APPROVED REPAIR STATION NUMBER
07TR2100

Greg Flores

Full details of the maintenance performed on this unit are available upon request

# WORK ORDER NUMBER

35112

# APPROVED TURBO COMPONENTS, Inc

1545 E. Acequia Visalia, CA 93292 1-800-523-4809 559-627-3600 (Local / Intl.) 559-627-2873 (Fax) www.approvedturbo.com



Approved Turbo Components

Received Date:07/13/16		www.approvedturbo.com	
10001700 Date:0//13/16		CUSTOMER INFORMATIO	N Invoice Number: 13382
Contact Name: Terry Sha	fer P () 5650		A A A O O M
	1.0.3037		
Company Name: Vec	ctor Air		
	T T T T T T T T T T T T T T T T T T T		
Address: 395 Airport Dri	ve		
Erie Municipal	Airport		
		and the second s	
City: Erie State: CO Zip:	80516 Country	**	M a disconnection
Phone: 303-664-0633 Fax:	~		
1 Hone. 303-004-0033 Fax:	Cell No:	Email:	
Drop Ship			
Company Name: Conta	act Name: P	hone:	
City: State:	Zip:		
	Zip.		ar a
		UNIT INFORMATION	
Manufacturer: Hartzell Engine	Technologies	2.11.100.11.11.1	
		Description: Wastega	te
Part Number: 470842-0	0004 Alter	nate Part Number: C10	65006-0304
C . 137 1		The Training of Car	05000-0504
Serial Number: JHN00	480		
Maintenance Requested: Ove	whanl		
Special Instructions:	rhaul		•
FINAL DISPOSITION OF	TINIT		
Overhauled and returned to	service		ADDITIONAL FORMS ATTACHED
<b>DOCUMENTATION</b>			1000 4 7
FAA Form 8130-3 Overhau	1		1002-1 Receiving Inspection ⊠
DATA USED TO PERFOR	RM MAINTENA	NCE	1002-2 Preliminary Inspection ⊠
400999-0000 Rev C/ATC/F	AA Approved D	ata	1002-9 Penetrant Inspection
EA09-26	1 -		1002-5 Turbo Final   1002-6 Control Final
Fittings: W/N Gaskets: Y/	WBrackets: Y/	OConfirmed By LE	1002-0 Control Final 🔀
WORK ORDER FINAL IN	SPECTION BY	0	1015 Hidden Damage
-14/		ompleted Date 07-19-16	
Greg Flores			
- B I WILD			

FAA APPROVED REPAIR STATION NUMBER
07TR2100

Full details of the maintenance performed on this unit are available upon request

#### **AUTHORIZED RELEASE CERTIFICATE** 3. Form Tracking Number: VUnited States 018786 FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: Approved Turbo Components, Inc. 5. Work Order/Contract/Invoice FAA Repair Station Number 1545 E. Acequia No. 07TR2100 Visalia, CA 93292 USA 35112 (800)523-4809 USA 6. Item: 7. Description: Part Number: 9. Quantity: 10. Serial Number: 11 Status/Work: HET WASTEGATE 470842-0004 JHN00480 **OVERHAULED** 12. Remarks: OVERHAULED IN ACCORDANCE WITH:Hartzell Engine Techs.Ovhl. Manual P/N 400999-0000 Rev C Rev. Date 04/17/2015 FULL DETAILS HELD ON WORK ORDER NUMBER 35112 ALTERNATE APPROVED PART NUMBER: C165006-0304 13a. Certifies the items identified above were manufactured in conformity to: 14a Approved design data and are in a condition for safe operation. 14 CFR 43.9 Return to Service Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 Non-approved design data specified in Block 12.

and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. 13b. Authorized Signature: 13c. Approval/Authorization No.: 14b. Authorized Signature 14c. Approval/Certificate No.: 07TR2100 13d. Name (typed or Printed): 13e. Date (dd/mmm/yyyy): 146. Name (Typed or Printed): 14e. Date (dd/mmm/yyyy): **Greg Flores** 19/Jul/2016

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority accepts aircraft engine(s)/article(s) from the airworthiness authority accepts a aircraft engine(s)/article(s)/article(s)/article(s)/article(s)/article(s)/article(s)/ ness authority of the country specified in block 1. Statements in block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance reco rds must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



TURBO COMPONENTS, Inc 1545 E. Acequia 'isalia, CA 93292 1-800-523-4809 ?7-3600 (Local / Intl.) 9-627-2873 (Fax)



Approved Turbo Components

Possin ID . OF US		www.approvedturbo.com	ubbioard ining ratibalifilf	,5
Received Date:07/13/16	C	USTOMER INFORMATIO	N Invoice Number: 13382	
Contact Name: Terry Shafe			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	1.0.3037			
Company Name: Vector	or Air			
Address: 395 Airport Drive	<b>;</b>			
· Erie Municipal A	irport			
City: Erie State: CO Zip: 80	E16 G .			
	516 Country:			
Phone: 303-664-0633 Fax:	Cell No:	Email:		
8		management of the second of th	,	
Drop Ship			,	
Company Name: Contact	Name: Pho	one:		
Address: City: State:				
City: State:	Zip:	ě	8	
	***			
		UNIT INFORMATION		_
Manufacturer: Hartzell Engine Te	chnologies	Description: Turboch		
Part Number: 466304-00	03 Alterna	ate Part Number: 646	6677	
Serial Number: UFR011	n.			
orial Panioer. Of Rull	U			
Maintenance Requested: Overh	auled Exchange			
Special Instructions:				
FINAL DISPOSITION OF U Overhauled and returned to se	UNIT		ADDITIONAL FORMS ATTACHED	ل
<b>DOCUMENTATION</b>	ervice			
FAA Form 8130-3 Overhaul			1002-1 Receiving Inspection ⊠	
DATA USED TO PERFORM	MAINTENAN	ice	1002-2 Preliminary Inspection ⊠	
400600-0000 Rev B/ATC/FA	A Approved Dat	C.E.	1002-9 Penetrant Inspection ⊠	
EAU9-26 X	1 1		1002-5 Turbo Final 🖂	
Fittings V/N Gaskets: Y/N	Brackets: Y/N	Confirmed Ruch	1002-6 Control Final	
WORK ORDER FINAL ANSI	PECTION BY:	- right inch Dy. 4	1002-7 Parts Issue	
		mpleted Date 07-19-16	1015 Hidden Damage	

**Greg Flores** 

FAA APPROVED REPAIR STATION NUMBER 07TR2100

Full details of the maintenance performed on this unit are available upon request

# WORK ORDER NUMBER

35110

APPROVED TURBO COMPONENTS, Inc.

1545 E. Acequia Visalia, CA 93292 1-800-523-4809 559-627-3600 (Local / Intl.) 559-627-2873 (Fax) www.approvedturbo.com



Approved Turbo Components

CUSTOMER INFORMATIO	Invoice Number: 13382
9	mvoice Number: 13382
ntry:	
No: Email:	
Phone:	
ip:	
<u>UNIT INFORMATION</u>	
Description: Turboc	harger
lternate Part Number: 64	6677
ange	
	ADDITIONAL FORMS ATTACHED
	1002-1 Receiving Inspection ⊠
	1002-2 Preliminary Inspection ⊠
<u>ENANCE</u>	1002-9 Penetrant Inspection ⊠
ed Data	1002-5 Turbo Final ⊠
· V/A Confirmed D. C.	1002-6 Control Final
BY:	_ 1002-7 Parts Issue ⊠ 1015 Hidden Damage □
Completed Date 07-19-16	5
	Phone:  Description: Turboc lternate Part Number: 64  ENANCE ed Data  EVANCE ENANCE ENANCE ENANCE ENANCE ENANCE ENANCE ENANCE

**Greg Flores** 

Full details of the maintenance performed on this unit are available upon request

ving Civil Aviation 2. uthority/Country **AUTHORIZED RELEASE CERTIFICATE** 3. Form Tracking Number: **FAA/United States** 018784 FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: Approved Turbo Components, Inc. 5. Work Order/Contract/Invoice FAA Repair Station Number: 1545 E. Acequia No. 07TR2100 Visalia, CA 93292 USA 35110 (800)523-4809 USA 6. Item: 7. Description: Part Number: 9. Quantity: 10. Serial Number: 11. Status/Work: HET TURBOCHARGER 466304-9003 1 UFR0110 **OVERHAULED** 12. Remarks: OVERHAULED IN ACCORDANCE WITH: Hartzell Engine Techs. Ovhl. Manual P/N 400600-0000 Rev B Rev. Date 09/12/2014 & Garrett Manual TP20-0128, FULL DETAILS HELD ON WORK ORDER NUMBER 35110 ALTERNATE APPROVED PART NUMBER: 646677 IMPORTANT NOTICE FOR TURBOCHARGERS In accordance with Hartzell Engine Technologies Service Bulletin No. 23 the "TURBOCHARGER SYSTEM OPERATIONAL TESTS MUST BE PERFORMED A copy of Service Bulletin No.23 can be obtained from us or the web @ http://hartzell.aero/wp-content/uploads/2014/10/SB-023.pdf

13a. Certifies the items identified above were manu	factured in conformity to:	14a.	
Approved design data and are in a c	condition for safe operation.	14 CFR 43.9 Return to Service	Other regulation specified in Block 12
Non-approved design data specified	l in Block 12.	Certifies that unless otherwise specified in Bloc and described in Block 12 was accomplished in Federal Regulations, part 43 and in respect to return to service.	accordance with Title 14 Code of
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: O7TR210O
13d. Name (typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): Greg Flores	14e. Date (dd/mmm/yyyy): 19/Jul/2016
	User/Installe	r Responsibilities	N

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworth rds must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



"URBO COMPONENTS, Inc '545 E. Acequia isalia, CA 93292 1-800-523-4809 ?7-3600 (Local / Intl.) 9-627-2873 (Fax)



Approved Turbo Components

Received Date:07/13/16	approvedturbo.com	n apploted ining Gu	imhaneur?
Contact Name: Town Cl. 4	CUSTOMER INFORMATION	ON Invoice Number: 13382	-
Contact Name: Terry Shafer P.O. 5659			
Company Name: Vector Air			
Address: 395 Airport Drive Erie Municipal Airport			
City: Erie State: CO Zip: 80516 Country	:		
Phone: 303-664-0633 Fax: Cell No:	Email:		
Varient Cop.	hone:		
City: State: Zip:	* ,		
Manufacturer: Howevall B	UNIT INFORMATION		
Manufacturer: Hartzell Engine Technologies	Description: Turbock	narger	
Part Number: 466304-0003 Altern	nate Part Number: 646	6677	
Serial Number: JIL00995			
Maintenance Requested: Overhaul Special Instructions:			
Overhouled and International Control of UNIT		ADDITIONAL FORMS	
Overhauled and returned to service DOCUMENTATION		ADDITIONAL FORMS ATTACHED	
FAA Form 8130-3 Overhaul		1002-1 Receiving Inspection ⊠	
DATA USED TO PERFORM MAINTENA	NOE	1002-2 Preliminary Inspection ⊠	
700000-0000 Rev B/AIC/FAA Approved Do	ata	1002-9 Penetrant Inspection	
LAU3-20		1002-5 Turbo Final 🖂	
Fittings: TN Gaskets: TN Brackets: Y (1)	DConfirmed Ry. C.	1002-6 Control Final	
WORK ORDER FINAL INSPECTION BY:	Dy.	10000 🖂	
	ompleted Date 07-19-16	1015 Hidden Damage	<u>න</u>

Greg Flores

# FAA APPROVED REPAIR STATION NUMBER 07TR2100

### WORK ORDER NUMBER

35111

# APPROVED TURBO COMPONENTS, Inc

1545 E. Acequia Visalia, CA 93292 1-800-523-4809 559-627-3600 (Local / Intl.) 559-627-2873 (Fax) www.approvedturbo.com



Approved Turbo Components

Desci ID : OF GOVE		www.approvedturbo.com	
Received Date:07/13/16		<b>CUSTOMER INFORMATION</b>	Invoice Number: 13382
Contact Name: Terr	v Shafer P O 5650		
	J ~ 11.0. 505)		
Company Name:	Vector Air		
	V JOUGH I MAR		
Address: 395 Airpor	t Drive		
	icipal Airport		
City: Erie State: CO	Zip: 80516 Country	y:	
Phone: 303-664-0633	Provide Call N		
1 110110. 303-004-003;	3 Fax: Cell No:	: Email:	
D			
Drop Ship	1		
Company Name: Address:	Contact Name:	Phone:	
City:	State: Zip:		
		,	
		UNIT INFORMATION	
Manufacturer: Hartzell E	ngine Technologies	Description: Turbocha	Витон
Part Number: 4663	304-0003 Alter	rnate Part Number: 646	677
Comiol March III			
Serial Number: JI	L00995		
Maintenance Requested:	Overhaul		
Special Instructions:	O voi maur		
FINAL DISPOSITIO	ON OF UNIT	National Control of the Control of t	ADDITIONAL FORMS ATTACKED
Overhauled and return	ned to service		ADDITIONAL FORMS ATTACHED
DOCUMENTATION	_		1002-1 Receiving Inspection ⊠
FAA Form 8130-3 Ov			1002-1 Receiving Inspection ⊠
DATA USED TO PE	RFORM MAINTEN	ANCE	1002-9 Penetrant Inspection ⊠
400600-0000 Rev B/A	ATC/FAA Approved 1	Data	1002-5 Turbo Final
EA09-26 \( \)	10000		1002-6 Control Final
WODE OPER TO	ts: V/N Brackets: Y	(D)Confirmed By:	1002-7 Parts Issue ⊠
WORK ORDER FEN	AL INSPECTION B	<i>Y</i> :	1015 Hidden Damaga

Greg Flores

Completed Date 07-19-16

Approving Civil Aviation Authority/Country  FAA/United States  AUTHORIZED RELEASE CERTIFICATE  FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG					3. Form	3. Form Tracking Number: 018785		
	nization Name and Address: Approved Turbo Component 1545 E. Acequia Visalia, CA 93292 USA USA	ts, Inc.	FAA Repair No. 07TR2 (800)523-4	100		5. Work Number: 3511		
. Item:	7. Description:	8. Part Number:	-	9. Quantity:	10. Serial Number:		11. Status/Work:	
1	HET TURBOCHARGER	466304-9003		1	JIL00995		OVERHAULED	
. Rema	OVERHAULED IN ACCORDANG EA09-26 FULL DETAILS HELD ON WOR ALTERNATE APPROVED PART IMPORTANT NOTICE FOR TURN accordance with Hartzell Engin PRIOR TO RETURN TO SERVI	MI IMPED: 646677	o. 23 the "TUR	BOCHARGE	ER SYSTEM OPERATIO	NAI TESTS N		
. Certif	lies the items identified above were manu	factured in conformity to:	14a.					
	Approved design data and are in a c		unic	tifies that unl described ir	DIOCK 12 was accomplis	n Block 12, the	egulation specified in Bloc e work identified in Block 11 lance with Title 14, Code of k, the items are approved to	

return to service. 13b. Authorized Signature: 13c. Approval/Authorization No.: 14b. Authorized Signature 14c. Approval/Certificate No.: 07TR2100 13d. Name (typed or Printed): 13e. Date (dd/mmm/yyyy): 14d. Name (Typed or Printed): 14e. Date (dd/mmm/yyyy): Greg Flores 19/Jul/2016 User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworth ness authority of the country specified in block 1. Statements in block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance reconstitute installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



1615 W. NASA Blvd., Melbourne, FL 32901 USA • Phone: (321) 254-1500 • Fax: (321) 259-4122

Prod	Pack	Slip:	19	915

# Production Posting Clin

Blip	Page: 1 of 1
: Jason tor Air Airport Dr. CO 80516	
Pack Slip Dat Shipped Qty 1 1.00	e: 5/10/16 Rev

Sales Order: 13998 Special Shipping

☐Test Data Requirements: First Article

☐ Export License FAR/Repair Report

☐ CSI

☑ 8130 □ EASA

# CERTIFICATE OF COMPLIANCE

We certify that the workmanship on the articles listed above, shipped in satisfaction of your Purchase Order mentioned, have been inspected and/or tested and found to be in full conformance to the requirements of said Purchase Order and all drawings or specifications applied to the order, and that all pertinent inspection and/or test data is on file available for review.

0 MAY 2016

1. Appro Au	ving Civil Aviation thority/Country:	2.				3. Form Tracking Number:
FAA/United States AUTHORIZED RELEASE CERTIFICATE						13998-7919RS
	zation Name and Address:		FAA FORM 8130-3, AIRV	VORTHINESS A	APPROVAL TAG	
Symetri	ics Industries, 1615 W.	. NASA Blvd, Me	elbourne, FL. 32901 (5S5R93	34B)		5. Work Order/Contract/Invoic Number:
6. Item:	7. Description:	8. P	art Number:	9. Quantity:	10. Serial Number:	13998-7919RS
1	Multi-Function D	Display	700-00004-008	1	20007446	11. Status/Work:  Repaired
"Certific consideration of the	ired, Inspected, and Telertinent Service Bulleti	ified in blocks 11 se to service unde	1/12 was carried out in accorder EASA Part-145 Approval I	lance with EAS.  Number EASA.  14a.  14 CI  Certifies and descr		work the component  Other regulation specified in Block 12  12, the work identified in Block 11
3b. Author	ized Signature:	l t	3c. Approvat/Authorization No.:	14b. Authorize		14c. Approval/Certificate No.:
id. Name (	Typed or Printed):	i:	Je. Date (dd/mmm/yyyy):		ped or Printed):	5S5R934B 14e. Date (dd/mmm/yyyy):
agree to the second of	atayan sa mengangan dan pengahangan da			Steven A. Sı	nith	10 May 2016
			User/Installer	Responsibilitie	S	
ock 1, it is e ecified in Bl	ssential that the user/instal ock 1.	ller ensures that his/	nent alone does not automatically the national regulations of an airw her airworthiness authority accep	constitute authorit orthiness authorit ts aircraft engine(s	y to install the aircraft engine/propeller y different than the airworthiness autho )/propeller(s)/article(s) from the airwor cords must contain an installation certi	ority of the country specified in
A Eorn 012	0.2702.143		V			accordance with the

\*\*\*Note: This is an Electronic Work Order. All Names and Stamp Numbers You See On this Document Were Applied Electronically, And Then Acknowledged By the Individuals Represented.

# Repair Station Work Order

ASM: 0

Job: 13998-7919RS

Page: 1 of 2 Date: 5/10/2016

Job: 13998-7919RS

Repair Station: 5S5R934B 

ASM: 0

Part: 700-00004-008

MFD, 10.4, LANDSCAPE, 429, 800 NIT

010Excha

S/N: 20007446

Comments:

Job: PO NUMBER: 5590

> CUSTOMER: Vector Air Serial Number: 20007446

Reason for return: Cannot upload data through USB port. Screen display has failed possibly overheat?

WARRANTY= YES X

SERVICE BULLETINS REQUIRED = YES

X NO

Funding Not Required; RS License Warranty

Seq Operation

Signoff

Date

10 RS - Incoming Inspection

sandrews

4/27/2016

PERFORM PRELIMINARY INSPECTION. VERIFY ARTICLE IS IN REPAIR STATION CAPABILITY LIST. VERIFY AD'S ARE APPLICABLE AND RECORD.

NOTIFY CUSTOMER SERVICE IF BEZEL IS DAMAGED.

Activity Performed:

Performed preliminary inspection and found no issues. No AD's found. Note: Unit has Rev. 01, No Mods indicated. RCVD with warranty/quality seal. (Performed FOD test).

20 RS - Evaluation

rhaas

5/9/2016

PERFORM EVALUATION AND VERIFICATION OF FAILURE PER PMM. RUN EVALUATION TEST USING UNITS CURRENT REVISION ON LABEL. VERIFY AND RECORD LATEST REVISION OF PMM.

VERIFY SOFTWARE AND MOD STATUS.

Activity Performed:

Performed evaluation per PMM 600-00130-004, Rev.13, Date: 5 Apr. 2016. Received with software version: 530-00201-100 Rev. 00 (Cirrus) installed. Unit requires Mods 17 and 19. Was not able to verify that the "USB Port can't upload data and that Screen display has failed possibly to overheating". Was able to load Loopback Test software without any issues and heated the unit up to approximately 60° C and had no issues show. Bezel window is De-Bonded and Left Knob cracked. Battery has expired.

#### 7.0 Test Data Sheet

The following page is a blank test data sheet that is to be used to record the required data contained within this document. The pass/fail criteria for the tests are included on each data sheet. The format of this sheet can be modified to fit the appropriate travelers etc., but the content and pass/fail criteria must remain consistent.

#### TEST DATA SHEET

Part Number: 700-00004-008		Date: 9 May 2016
Serial Number: 2000 7446		Technician: 233
Test Action: Pre Burn In Post Bu	rn In	Field Return To Service
Title	Pass	
Mechanical Inspection	-	0
BIOS Time/Date	7	
Serial Number Entry	4	
Viewing Angle	×	
Pixel and Initialization	×	
Key Function	+	
Dimming Functionality	*	
Fan Test	بد	
Bezel Light Dimming	~	
System Time (Universal time military format and Serial Number	<	
Loopback Test	×	
Broadcast, Narrowcast, TAWS, and CMAX activated	×	





03ace1077717

UNIFORM STRAIGHT BILL OF LADING ORIGINAL---NOT NEGOTIABLE SUBJECT TO THE TERMS AND CONDITIONS OF THE UNIFORM BILL OF LADING --- QUESTIONS? CALL 1.866.393.4585

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FedEx Freight

C0202/711-FXF

# UNIFORM STRAIGHT BILL OF LADING Terms & Conditions

- Sec. 1. (a) The carrier or the party in possession of any of the property described in this Bill of Lading shall be liable as at common law for any loss thereof or damage thereto, except as hereinafter provided.
- (b) No carrier shall be liable for any loss or damage to a shipment or for any delay caused by an Act of God, the public enemy, the authority of law, or the act or default of shipper. Except in the case of negligence of the carrier or party in possession, the carrier or party in possession shall not be liable for loss, damage or delay which results: when the property is stopped and held in transit upon request of the shipper, owner or party entitled to make such requests; or from faulty or impassible highway, or by lack of capacity of a highway bridge or ferry; or from a defect or vice in the property; or from riots or strikes. The burden to prove freedom from negligence is on the carrier or the party in possession.
- Sec. 2. Unless arranged or agreed upon, in writing, prior to shipment, carrier is not bound to transport a shipment by a particular schedule or in time for a particular market, but is responsible to transport with reasonable dispatch. In case of physical necessity, carrier may forward a shipment via another carrier.
- Sec. 3. (a) As a condition precedent to recovery, claims must be filed in writing with: any participating carrier having sufficient information to identify the shipment.
- (b) Claims for loss or damage must be filed within nine months after the delivery of the property (or, in the case of export traffic, within nine months after delivery at the port of export), except that claims for failure to make delivery must be filed within nine months after a reasonable time for delivery has elapsed.
- (c) Suits for loss, damage, injury or delay shall be instituted against any carrier no later than two years and one day from the day when written notice is given by the carrier to the claimant that the carrier has disallowed the claim or any part or parts of the claim specified in the notice. Where claims are not filed or suits are not instituted thereon in accordance with the foregoing provisions, no carrier shall be liable, and such claims will not be paid.
- (d) Any carrier or party liable for loss of or damage to any of said property shall have the full benefit of any insurance that may have been effected, upon or on account of said property, so far as this shall not avoid the policies or contracts of insurance, PROVIDED, that the carrier receiving the benefit of such insurance will reimburse the claimant for the premium paid on the insurance policy or contract.
- Sec. 4. (a) If the consignee refuses the shipment tendered for delivery by carrier or if carrier is unable to deliver the shipment, because of fault or mistake of the consignor or consignee, the carrier's liability shall then become that of a warehouseman. Carrier shall promptly attempt to provide notice, by telephonic or electronic communication as provided on the face of the Bill of Lading, if so indicated, to the shipper or the party, if any, designated to receive notice on this Bill of Lading. Storage charges, based on carrier's tariff, shall start no sooner than the next business day following the attempted notification. Storage may be, at the carrier's option, in any location that provides reasonable protection against loss or damage. The carrier may place the shipment in public storage at the owner's expense and without liability to the carrier.
- (b) If the carrier does not receive disposition instructions within 48 hours of the time of carrier's attempted first notification, carrier will attempt to issue a second and final confirmed notification. Such notice shall advise that if carrier does not receive disposition instructions within 10 days of that notification, carrier may offer the shipment for sale at a public auction and the carrier has the right to offer the shipment for sale. The amount of sale will be applied to the carrier's invoice for transportation, storage and other lawful charges. The owner will be responsible for the balance of charges not covered by the sale of the goods. If there is a balance remaining after all charges and expenses are paid, such balance will be paid to the owner of the property sold hereunder, upon claim and proof of ownership.

- (c) Where carrier has attempted to follow the procedure set forth in subsections 4(a) and (b) above and the procedure provided in this section is not possible, nothing in this section shall be construed to abridge the right of the carrier at its option to sell the property under such circumstances and in such manner as may be authorized by law. When perishable goods cannot be delivered and disposition is not given within a reasonable time, the carrier may dispose of property to the best advantage.
- (d) Where a carrier is directed by consignee or consignor to unload or deliver property at a particular location where consignor, consignee, or the agent of either, is not regularly located, the risk after unloading or delivery shall not be that of the carrier.
- Sec. 5. (a) In all cases not prohibited by law, where a lower value than the actual value of the said property has been stated in writing by the shipper or has been agreed upon in writing as the released value of the property as determined by the classification or tariffs upon which the rate is based, such lower value plus freight charges if paid shall be the maximum recoverable amount for loss or damage, whether or not such loss or damage occurs from negligence.
- (b) No carrier hereunder will carry or be liable in any way for any documents, coin money, or for any articles of extraordinary value not specifically rated in the published classification or tariffs unless a special agreement to do so and a stipulated value of the articles are endorsed on this bill of lading.
- Sec. 6. Every party, whether principal or agent, who ships explosives or dangerous goods, without previous full written disclosure to the carrier of their nature, shall be liable for and indemnify the carrier against all loss or damage caused by such goods. Such goods may be warehoused at owner's risk and expense or destroyed without compensation.
- Sec. 7. (a) The consignor or consignee shall be liable for the freight and other lawful charges accruing on the shipment, as billed or corrected, except that collect shipments may move without recourse to the consignor when the consignor so stipulates by signature or endorsement in the space provided on the face of the Bill of Lading. Nevertheless, the consignor shall remain liable for transportation charges where there has been an erroneous determination of the freight charges assessed, based upon incomplete or incorrect information provided by the consignor.
- (b) Notwithstanding the provisions of subsection (a) above, the consignee's liability for payment of additional charges that may be found to be due after delivery shall be as specified by 49 U.S.C. \$13706, except that the consignee need not provide the specified written notice to the delivering carrier if the consignee is a for-hire carrier.
- (c) Nothing in this Bill of Lading shall limit the right of the carrier to require the prepayment or guarantee of the charges at the time of shipment or prior to delivery. If the description of articles or other information on this Bill of Lading is found to be incorrect or incomplete, the freight charges must be paid based upon the articles actually shipped.
- Sec. 8. If this Bill of Lading is issued on the order of the shipper, or his agent, in exchange or in substitution for another Bill of Lading, the shipper's signature on the prior Bill of Lading or in connection with the prior Bill of Lading as to the statement of value or otherwise, or as to the election of common law or Bill of Lading liability shall be considered a part of this Bill of Lading as fully as if the same were written on or made in connection with this Bill of Lading.
- Sec. 9. If all or any part of said property is carried by water over any part of said route, such water carriage shall be performed subject to the terms and provisions and limitations of liability specified by the "Carriage of Goods By Sea Act" and any other pertinent laws applicable to water carriers.



Hose Shop 7285 S. Revere Pkwy. Ste 703 Phone 303-460-7708 Fax303-460-1190

#### **TSO CERTIFICATION**

It is hereby certified that (A) The parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control system/methods as set forth in the FAA issued technical standard order authorizations (TSOA) issued to Stratoflex and (B) such part and/or materials are new and are in condition for safe operation.

Aviall Order Number: 1002307898 Item Line Numbers:

1) 124J012E0200C180

2) 124J001-4CR0080

3) 124J002-6CR0100

4) 124J001-8CR0190

5) 124J001-8CR0190

6) 124J002-8CR0120

7) 124J003-8CR0226

8) 124J003-4CR0360

9) 124J002-4CR0140

10) 124J002-4CR0226 X2

11) 124J002-6CR0100

12) 124J002-6CR0200

Signed:

Date: 7-20-2016

If applicable, satisfactory compliance with the conditions and tests required for TSO approval indicates the hose assembly has met the minimum performance standards as stated in the TSO. Furthermore, it is the responsibility of the installer to determine the installation eligibility and that it will not cause the hose assembly to be subjected to conditions in excess of those for which it has been approved Form# CERT-001

<sup>\*</sup>Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR



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Aviall Order Number: Item Line Numbers:	1002307898
13) 124J002-4CR0080	1
14) 124J003-3CR0100	19)
<b>■</b> 15) 124J001-6CR0080	20)
16)	21)
17)	22)
18)	23)
	24)
Signed:	hodeldel
Date:	7-20-2016

<sup>\*</sup>Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR

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WORK ORDER

CUSTOMER

JOB DESCRIPTION

ENGINE MODEL

ENGINE SERIAL NUMBER

1. Approv	ving National Aviation   2							****			
	thority/Country:	A 1 1-T-	1100175						3. F	orm Trackir	g Number:
FA	A/United States	AUI	HORIZE	D REL	EASE	CERTI	FICATE		30693		
1						INESS APPRO				300	193
1	zation Name and Address:								5. W	ork Order	/Contract/Invoice
Wai	rner Propeller and Gover	nor Co. L.L.C	. 5102 S. Coun	try Club Ro	d. Tucso	n, AZ 85706	FAA CRS W59i	R659N		nber: 798	
6. Item:	7. Description:	8. Pa	art Number:	9,	Eligibi	ility: *	10. Quantity:	11. Serial/Batch Nur	nber:	12.	Status/Work:
1	Propeller	PHC-J3Y	'F-1N		N/A		1	FP5297B	***************************************	Repair	
13. Remar	ks: RETURN TO SERVI	CE	ž.							L	
			ete								
Repair	using Hartzell manual 11	3R Revision	30 dated Cont	ombor/201	10 D-f-						
	J	JO NEVISION.	32 dated Septi	ember/20	ro. Refer	to work ord	ier listed in bloc	ck 5 for details			
		5.80									
14. Certifies	s the items identified above w	ere manufactur	red in conformity	to:		10 177 11					
							CFR 43.9 Return	_ 0.			ecified in Block 13
	pproved design data and are i					Certifie 12 and	s that unless other	rwise specified in Block ck 13 was accomplishe	13, the	work iden	tified in Block
	lon-approved design data spe	cified in Block 1	13.		ĺ	Code of	Federal Regulation	ons, part 43 and in rest	ect to	ccordance that work,	the items are
15. Authori:	zed Signature:	$\overline{}$	1 45 4 1			approve	a for return to se	rvice.			
7.000	acco signature.		16. Approval/	Authorizatio	n No.:	20. Authorize	d Signature:	1	21. <i>F</i>	Approval/Ce	rtificate No.:
17 Name (T	yped or Printed):					45	Bank l	In		W59R65	9N
17. Name (1	yped of Filited):		18. Date (m/d/	/ <del>y</del> ):		100	ped or Printed):		23. [	Pate (m/d/y)	:
							J. Warner		J	un 14, 20	11
				User/Inst	taller Res	ponsibilitie:	5				
specified in the country	tant to understand that user/installer performs work Block 1, it is essential that the specified in Block 1.	ne user/install	er ensures that I	his/her airw	orthiness	authority acc	epts parts/compo	rent than the airworth nents/assemblies from	iness a the air	uthority of worthiness	f the country sauthority of
national regu	n Blocks 14 and 19 do not cor ulations by the user/installer be	fore the aircra	ft may be flown.	ın all cases,	aircraft m	naintenance re	cords must contair	n an installation certificat	ion issu	ied in accor	dance with the
											1

## FAA/PMA ELIGIBILITY REPORT

# BARRY CONTROLS Aerospace

PMA No. PQ0524NM

Part Number: 96301-01

FAA-PMA approved for use on the following type certificated aircraft as of March 22, 2016

Aircraft Mfr Aircraft Model Engine Mfr Engine Model Serial Number Eligibility

Cirrus Design SR22, SR22T

1. Approving Civi Authority/Cou	3. Form Tracking Number:							
FAA/United S	States	FAA FORM 8130-3, AIRWORTH	IINESS APPROV	AL TAG			450043	
	me and Address ontinental Motors, Inc. 2039 Broad S	Street, Mobile, Alabama 36615			FAA/PMA:PQ1269CE	5. Work Order/Contract/Invoice Number: 496509 0000190639		
6. Item:	7. Description	8. Part Number:		9. Quantity:	10. Serial Number:		11. Status/Work:	
1	HARNESS, YELLOW, S6-20/20	0, 10-423674-19Y		1	N/A		NEW	
12. Remarks: AIR WORTH	HINESS APPROVAL							
X Approved o	dentified above were manufactured in conformit design data and are in condition for safe operatio ved design data specified in Block 12.							
3b. Authorized Signatu	Thomas H Howard	13c. Approval/Authorization No.: 937042831						
13d. Name (Typed or Pr Thomas H. H	rinted):	13e. Date (dd/mmm/yyyy): 10/Feb/2016						
		User/Installer	Responsibilities	3				
Where the user/inst Block 1, it is essenti pecified in Block 1 Statements in Block	taller performs work in accordance w ial that the user/installer ensures that ss 13a and 14a do not constitute instal	ocument alone does not automatically co with the national regulations of an airwoi his/her airworthiness authority accepts	onstitute authority rthiness authority of aircraft engin(s)/p	to install the aircr lifferent than the a ropeller(s)/article(	airworthiness authority s) from the airworthine	of the cou ss authori	ty of the country	
ational regulation	s by the user/installer before the aircr	aft may be flown.					CONTRACTOR OF THE PROPERTY OF	



		ALISTIADI								
Approving Civil Aviation		2. AUTHORIZED RELEASE CERTIFICATE						3. Form Tracking Number:		
Authority/Country		FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG						WO: 7716		
FAA/United State	S		,							
4. Organization Name and Add	ress:	Poplar Gro	ve Airmotive, Inc				5. Work Ord	er/Contract/Invoice Number		
		11619 Rou	ıte 76					WO: 7716		
		Poplar Gro	ve , IL 61065	CF	RS: YYBR6	64L				
6. Item:	7. Description:		8. Part Number		9. Quantity	10. Serial Numbe	er:	11. Status/Work:		
1		Magneto	10-500556-	-101	1	D06k	A068	Repaired		
12. Remarks										
500 hour insp	ection.							6,		
		een accomplished in a 12-06 wear less than		1 manua	P/N X42002-	-3.				
Poplar Grove Airmotive cei	rtifies that th	e work specified in bloc	ck 11/12 was carried cu	it in accor	dance with EA	SA Part - 145 an	d in respect	to that work the		
Magneto is considered rea			Control of the Contro							
	above were ma	nulactured in comormity to:		14 CFR 43.9 Return to Service x Other regulation specified in Block 12						
Approved desig	n data and are i	n a condition for safe operati		Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code						
						and in respect to that				
Non-approved d	esign data speci	fied in Block 13			eturn to service.	ind in respect to tha	t work, the iter	iis are		
13b. Authorized Signature:		13c. Approval Authorization I	Number: 14	b. Authorize	ed Signature	fr	14c. Approva	I/Certificate No.:  YYBR664L		
13d. Name (Typed or Printed)		13e. Date (dd/mmm/yyyy)	14	d. Name (T	yped or Printed):	- 44:	14e. Date (dd	l/mmm/yyyy):		
			User/Installer Respo	neibilitie	Andrew Fals	etti		9-May-2016		
t is important to understand that	the existence of	this document alone does no				ngino/propeller/est	ala			
Where the user/installer performs ountry specified in Block 1, it is es irworthiness authority of the country of the country in the country of the country	work in accorda sential that the ntry specified in	ance with the national regula user/installer ensures that hi Block 1. Statements in Block	tions of and airworthiness au is/her airworthiness authority s 13a and 14a do not constitu	ithority diffe y accepts aii ute certificat	erent than the airw craft engine(s)/pro tion. In all cases, ai	orthiness authority opeller(s)/article(s) f rcraft maintenance	of the			



Approving Civil Aviation     Authority/Country  FAA/United States		2. AUTHORIZ	ED RELEASE	3. Form Tra	3. Form Tracking Number: WO: 7716				
4. Organization Name and Addre		Poplar Grov 11619 Rout Poplar Grove		C	RS: YYBR6	6 <b>4</b> I	5. Work Order/Contract/Invoice Number WO: 7716		
6. Item: 7	7. Description:	-	8. Part Number		9. Quantity	10. Serial Number	:	11. Status/Work:	
1 12. Remarks		Magneto	10-500556-	101	1	D06K	A069	Repaired	
Poplar Grove Airmotive cert Magneto is considered read	tifies that the ly for release	e to service under EASA I	k 11/12 was carried ou Part - 145 Approval Nu	ımber: E	ASA,145.6472		l in respect	to that work the	
Non-approved de	data and are in	n a condition for safe operation	n: Cei and of i	14a x 14 CFR 43.9 Return to Service x Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.					
13b. Authorized Signature:	1	3c. Approval Authorization Nu	umber: 14b	Authori	zed Signature		14c. Approva	l/Certificate No.:  YYBR664L	
13d. Name (Typed or Printed)	1	3e. Date (dd/mmm/yyyy)			Typed or Printed): Andrew Fals	etti	l4e. Date (dd	/mmm/уууу): 9-May-2016	
t is important to understand that the	he existence of	this document alone does not	User/Installer Respo	nsibilitie	es		50		
Where the user/installer performs vocuntry specified in Block 1, it is essified in Block 1 and the count in t	work in accordai sential that the u try specified in E	nce with the national regulation user/installer ensures that his/ Block 1. Statements in Blocks 1	ons of and airworthiness aut her airworthiness authority 13a and 14a do not constitut	thority diff accepts a te certifica	erent than the airwircraft engine(s)/pro	orthiness authority opeller(s)/article(s) fr	of the		

The second second second		2									
	ving Civil Aviation hority/Country:		UTHORIZED RE	T T		3. Form	n Tracking Number:				
	United States		GPFM 16-353								
			FAA Form 8130–3, AIF	RWORTHINESS A	PPROVAL TAG						
4. Organiz			p.d			5. Wor	k Order/ Contract/ Invoice				
Great Pl	anes Fuel Metering, Inc	740	South 142 <sup>nd</sup> East Ave,   Tulsa 0	Oklahoma 74108	CRS # 1GPR022B	Number:					
6. Item:	7. Description:		8. Part Number:	100			16-353				
1	Fuel pump		ETI-SR22-2-11	9. Quantity:	10. Serial Number:		11. Status/Work:				
'	ruei pump		E11-5R22-2-11	1	026	Overhau	uled				
				7							
				i i							
					1	1					
			8	1							
40.5											
12. Rema	rks:										
Drawing	ETI-SR22-2-11	Rev G	6 4/29/09.	CMI CDOO	10 TAT CD40 00						
Drawing	L11-01(22-2-11	Nev C	4/23/03.	CIVII 2B00-	10. TAT SB12-02.						
10											
13a. Certi	fies the items identified abo	ove were	e manufactured in conformity to:	14a. 🛛 14 CFR 4	3.9 Return to Service	☐ Other regu	lation specified in Block 12				
	poroved design data and a	ere in a	condition for safe operation.	Cortifice that	unloss othonuise emerification D						
	lon-approved design data	specifie	d in Block 13	and describe	unless otherwise specified in B d in Block 12 was accomplished	lock 12, the wo	rk identified in Block 11				
11 12-0-0-0-1		/	a in a sport to	Federal Regu	lations, part 43 and in respect t	o that work the	titems are approved for				
		$\sim$		return to serv	ice.	is and morn, and	nome are approved for				
13b. Autho	orized Signature:	11	3c. Approval Authorization No:	14b. Authorized S							
1.5.00. 1.30.00.		'	so. Approval Authorization No.	14b. Authorized S	ignature.		14c. Approval/Certificate No: 1GPR022B				
13d Name	(Typed or Printed):	1	3e. Date (dd/mmm/yyyy):	14d. Name (Typed	Ato aleanell		ECOLUM ELMACON EMPLOYEES				
Tour Humb	ypea of timeay.	'	se. Date (dd/iiiiii/i/yyy):	David A. De			14e. Date (dd/mmm/yyyy):				
				David A. De	well		25 May 2016				
			User/Ins	staller Responsi	hilities						
It is impo	tant to understand that t	he exist	tence of this document alone do	es not automatica	ally constitute authority to ins	tall the aircraft	engine/propellor/articlo				
Where the	user/installer performs	work in	accordance with the national re	gulations of an ai	my and bin and another side of the		engine/propener/article.				
the count	ry specified in Block 1, it	is esse	ntial that the user/installer ensur	guiations of an at res that his/her ai	worthiness authority ameren	it than the airw	orthiness authority of				
engine(s)/	propeller(s)/article(s) from	m the ai	rworthiness authority of the cou	untry specified in	Block 1.	anciail					
			constitute installation certification				T. I. II				
issued in	accordance with the natio	onal red	ulations by the user/installer be	fore the aircraft n	ioran mannenance records m iav he flown	iust contain ar	installation certification				

1. Approving Civil Aviation 3. Form Tracking Number: AUTHORIZED RELEASE CERTIFICATE Authority/Country: 470789 FAA/United States FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address PC #508 5. Work Order/Contract/Invoice Number: Continental Motors, Inc. 2039 Broad Street, Mobile, Alabama 36615 524299 0000200301 6. Item: 7. Description 8. Part Number: 9. Quantity: 10. Serial Number: 11. Status/Work: THROTTLE & CONT. ASSY. R-653353-5A1 1 See Block 12 See Block 12 12. Remarks: Rebuilt to Original PAH's Specifications in accordance with 14 CFR §43.3(j). Serial/Batch Number(s): Serial Description A16EA300R THROTTLE & CON 14a. X Other regulation specified in Block 12 14 CFR 43.9 Return to Service Certifies that unless otherwised specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. 14b. Authorized Signature: 14c. Approval/Certificate No.: Thomas H Howard PC #508 14d. Name (Typed or Printed): 14e. Date (dd/mmm/yyyy):

User/Installer Responsibilities

Thomas H. Howard

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

23/May/2016

1. App	proving Civil Aviation orthority/Country:		3	3. Form Tracking Number:						
	\/United States	AUTH	ORIZED RE	CLEASE C		95101				
Ametek A	Aero-Defense dba Drak	e Air				***************************************	5 N	. Work Order/Contract/Invoice		
6. Item:	7. Description:	. 74107, 918-445-5106 (f	ax), 918/445-3545 (II2R8	99K)			4	96313 / 006394		
o. acm.	7. Description:		8. Part Number:		9. Quantity:	10. Serial Num	ber:	11. Status/Work:		
1	ALT DRIVE COU	PLING ASSY	646655	10	SEE BLOCK	OCK 12 OVERHAULED				
REF S/N's	s: DRK112212, DRK1	n block 11/12 was carrie	d out in accordance with Eservice under EASA Part	ASA Part 145 and in	wo gw o o t t o		12, DRK1189	13.		
13a. Certifie	es the items identified above	were manufactured in confo	rmity to:	14a. 🛛 14CFR	43.9 Return to So	ervice 🛛 Ot	her regulation s	pecified in Block 12		
📗 🔲 Арј	proved design data and are	in a condition for safe operati	on.	14a.   14CFR 43.9 Return to Service  Other regulation specified in Block 12  Certifies that unless otherwise specified in Block 12, the work identified in Block 11						
☐ Nor	1-approved design data spe	rified in Block 12.		and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.						
	ized Signature:	13c Approval/	Authorization No.:	14b. Authorized S	Signature	Line	14c. Approval	l/Certificate No.:		
13d. Name (	Typed or Printed):	13e. Date (dd/n	nmm/yyyy):	14d. Name (Typed Jason Sanders	d or Printed):		14e. Date (dd/			
	· ·		User/Instal	ller Responsibilities			-2/1/14/12010	×		
It is importa	nt to understand that the ex	istence of this document alone	e does not automatically constit	ute authority to install the	e giroraft anging	nmanallam/auti-1-	W.H. Smart W.			
Where the us	ser/installer performs work	in accordance with the notion	al regulations of an airworthin epts aircraft engine(s)/propelle				ne country specif	fied in Block 1, it is essential		
Statements in by the user/in	: Blocks 13a and 14a do not estaller before the aircraft r	constitute installation certific nay be flown.	ation. In all cases, aircraft mai	intenance records must co	ontain an installa	tion certification i	ssued in accorda	ock 1.  ance with the national regulations		
DAA D-	0100 0 (00 11)									

Aut	thority/Country:  A/United States	2. <b>A</b> [	THORIZED RE	L	EASE	CERTIFICATE	3. Form Tracking Number:
4. Organiz	zation Name and Address:		AIRCRAFT ACCESSORIES OF OKLAI 2740 North Sheridan Rd	/Oŀ	RITHINESS	CRS# RV3R829L	061016  5. Work Order/Contract/Invoice Number:
6. Item:	7. Description:		Tulsa, OK 74115  8. Part Number:	Γ		ORSH RVSR029L	WO 17004
1			o. Part Number:	9.	Quantity:	10. Serial Number:	11. Status/Work:
	SCAVENGE PUN	1P	CF101633-0031		1	SP1006053	REPAIRED
12. Remar.	ks:						
			16			JAL WORK PERFORMED IS O	N FILE AT THIS FACILTY
3a. Gertifie	es the items identified above	were manufa	actured in conformity to:		14a. 🗸 14 CF	R 43.9 Return to Service	Othornal
	oproved design data and are on-approved design data spo zed Signature:	e in a conditio	k 12.	Transplant pages 1 to 1 to 10	Certifies t	hat unless otherwise specified in Bloc ibed in Block 12 was accomplished in egulations, part 43 and in respect to	Other regulation specified in Block 12 k 12, the work identified in Block 11 accordance with Title 14, Code of hat work, the items are approved for
	Super or Printed):		13c. Approval/Authorization No.:	1	4b. Authorize	d Signature:	14c. Approval/Certificate No.: RV3R829L
	,		13e. Date (dd/mmra/yyyy):	14	4d. Name (Ty	ped or Printed):	14e. Date (dd/mmm/yyyy):
						Richard Popplewell	10-Jun-2016
is important	to	200 200 20	User/Installer	Res	ponsibilitie	S	
ock 1, it is es ecified in Blo	sential that the user/installenck 1.	er ensures tha	document alone does not automatically c with the national regulations of an airwo t his/her airworthiness authority accept	rth air	iness authority craft engine(s)	different than the airworthiness aut h/propeller(s)/article(s) from the airw	hority of the country specified in
tional regula	tions by the user/installer b	efore the airc	allation certification. In all cases, aircra raft may be flown.	ft m	aintenance rec	ords must contain an installation cer	tification issued in accordance with the

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005