

Nevada Department of Transportation

MAINTENANCE LOG #8

N777NV

TCAC 690C

s/n 11680

Starting March 2013

Ending _____



REVISED WEIGHT AND BALANCE AND EQUIPMENT LIST

MAKE: GULFSTREAM AM C

Model: 690C

REG: 777NV

S/N: 11680

Tach: 2333.7

Previous Aircraft W/B
Date 09/25/18

PART NUMBER	SERIAL NUMBER	MODEL NUMBER/DESCRIPTION	WEIGHT 7054.10	ARM 215.26	MOMENT 1518460.9
REMOVED			WEIGHT	ARM	MOMENT
011-00779-30	89125147	GTX33 Transponder	(3.90)	375.00	(1462.50)
INSTALLED					0.00
011-03303-00	3EH022154	GTX345R	2.54	44.50	113.03
TOTAL			(1.36)	XXX	(1349.47)

Old Moment / New Empty Weight = EWCG
1517111.4 7052.7

215.11

Gross Weight = 10375

Empty Weight = 7052.7

New Useful Load = 3322.3

New Moment = 1517111.4

New EWCG = 215.11

The above work was completed
in accordance with current FAA
regulations. Details on file at
this repair station under
Work Order # 15158
Repair Station # E5VR306N.
Date 12/19/18

Technician: *[Signature]*

Inspector: *[Signature]*

This weight and balance re calculation is accurate only to the extent of the accuracy of the data
from the previous weight and balance figures provided by the aircraft owner.



U.S. Department
of Transportation
**Federal Aviation
Administration**

WESTERN-PACIFIC REGION
Reno Flight Standards District Office

5466 Longley Lane
Reno, Nevada 89511
Phone: 775-858-7700
FAX: 775-858-7737

SPECIAL FLIGHT PERMIT & OPERATING LIMITATIONS

Registered owner of aircraft:	Nevada Department of Transportation	Phone:	775-888-7440
Agent-owner/person applying:	same as above	Phone:	775-888-7440
Manufacturer:	Gulfstream America	Model:	690C
Registration No.:	N777NV	Serial No.:	11680

1. These Operation Limitations must be carried in the aircraft and constitute a Special Flight Permit and must be displayed in accordance with Federal Aviation Regulation 91.203(b).
2. This aircraft is authorized flight from CXP to HIO via Direct, for the purpose of Maintenance.
3. Pilot must hold at least a valid Private and be rated in the type equipment.
4. The carriage of cargo, or persons other than the crew necessary for the flight is prohibited.
5. Flight must be conducted under Day Visual Flight Rules or as addressed in limitation #7, and a flight plan must be filed with the appropriate Flight Service Station.
6. The aircraft will be inspected by a Certificated Airframe and Powerplant Mechanic, or Repair Station. A notation which includes the appropriate certificate number and signature will be made in the aircraft maintenance records to certify that the aircraft is safe for the intended flight, and that no Airworthiness Directives that prohibit the ferry flight are outstanding.
7. The following special operating limitations apply:

IFR operations authorized when the aircraft is appropriately equipped and certified and the pilot is rated and current.

8. This authorization is effective on 03/13/2013, and expires on 03/22/2013, or upon landing at HIO.

Donald F. Morgan

Donald F. Morgan
Aviation Safety Inspector, Reno FSDO

03/12/2013
(date)

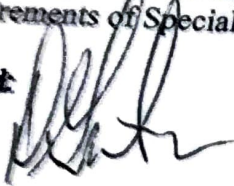
N777NV, Commander 840, S/N 11080

W.O. MPROP 4871

March 12, 2013

I have inspected this aircraft and determined it is safe for the intended flight per the requirements of Special Flight Permit dated 3-12-13.

Signed:

A handwritten signature in black ink, appearing to be 'R. H. H.', written over the 'Signed:' label.

Inspection Aero Air LLC
CRS# 091R003Y



GARMIN INTERNATIONAL INC * 1200 E. 151st St * Olathe.KS.66062 USA * TEL (913) 397-8200 * FAX (913) 397-8282

CONTAINER Packing List

Page 1 of 1

ier: FEDEX-Air-NEXT DAY BY 10:30 AM
king #: 564561467321
#:
#:
very ID: 79761057

CONTAINER #: 00007537590082579191
LPN #: G1.5806564000
DIM#: 8"x6"x5"

Order No: 58998420
PO #: 13-03947
Trading Partner #: 7767270001
On Pallet:

To:
AIR LLC
NE 25TH AVE

Ship To:
AERO AIR LLC
2050 NE 25TH AVE
AERO AIR LLC

SBORO OR 97124

HILLSBORO OR 97124

Please Refer To The Order Packing List For Complete Order Details ***

r Dat 08/12/2013

Ship Date: 08/13/2013

Weight: 0.3650

Packed UOM

Item No /
Cust Ref No

Description /
Cust Description

UPC No

1.00 EA

011-02545-00

GWX70 Mounting Adapter

FAA TSO or PMA PART - FOR APPLICABILITY SEE DEALERS
ONLY WEB SITE AT WWW.GARMIN.COM

Complied With
Quality Control Procedures


AUG 14 2013

QCP-001 AERO AIR

1. Approving National Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: SO30972-06/05/2013RK				
4. Organization Name and Address: TWIN COMMANDER AIRCRAFT LLC , 1176 TELECOM DRIVE, CREEDMOOR, NC 27522		5. Work Order/Contract/Invoice Number: SO: 30972				
6. Item: 1	7. Description: SHAFT	8. Part Number: 330165-21	9. Eligibility:* N/A	10. Quantity: 1 EA	11. Serial/Batch Number: N/A	12. Status/Work: NEW

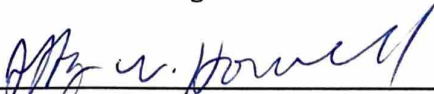
13. Remarks:
AIRWORTHINESS APPROVAL
The parts conform to the applicable FAA approved design data.
The parts shipped under this approval were produced by Twin Commander Aircraft LLC under Production Certificate 345CE.
Use appropriate Twin Commander Aircraft Manuals for parts installation.

DOMESTIC ONLY

4. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.		19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.	
Authorized Signature: 	16. Approval/Authorization No.: DMIR-810220-CE	20. Authorized Signature:	21. Approval/Certificate No.:
Name (Typed or Printed): Raymond A. Kaess	18. Date (m/d/y): Jun 05 2013	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
re the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified
ock 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country
fied in Block1.
ments in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with
nal regulations by the user/installer before the aircraft may be flown.

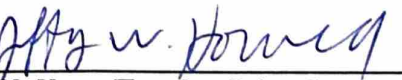
1. Approving National Aviation Authority/Country: UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: AAL-33248#2	
4. Organization Name and Address: NDE Professionals, Inc. 13339 NE Airport Way Suite 100 Portland, OR. 97230						5. Work Order/Contract/Invoice Number: AAL-33248	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Clevis Pin	ED12526	N/A	2	N/A	Inspected	
13. Remarks: Performed Magnetic Particle inspection on per ASTM-1444 Rev 05 and NPI NDT Manual FAA-MT-103.0 Rev 0. No Cracks found at this time.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: 9DSR786B	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): Jeffrey W. Howell		23. Date (m/d/y): May 20, 2013	

User/Installer Responsibilities

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	Clevis	ED12756	N/A	2	N/A	Inspected

13. Remarks:

Performed Magnetic Particle inspection on per ASTM-1444 Rev 05 and NPI NDT Manual FAA-MT-103.0 Rev 0.
No Cracks found at this time.

14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.		19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature: 	21. Approval/Certificate No.: 9DSR786B
17. Name (Typed or Printed):	18. Date:	22. Name (Typed or Printed): Jeffrey W. Howell	23. Date (m/d/y): May 20, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

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

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: SO31642-09/23/2013RK	
4. Organization Name and Address: TWIN COMMANDER AIRCRAFT LLC , 1176 TELECOM DRIVE, CREEDMOOR, NC 27522						5. Work Order/Contract/Invoice Number: SO: 31642	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	DUCT	NW2W2S6-40-6	N/A	1 EA	N/A	NEW	
3. Remarks: AIRWORTHINESS APPROVAL The parts conform to the applicable FAA approved design data. The parts shipped under this approval were produced by Twin Commander Aircraft LLC under Production Certificate 345CE. Use appropriate Twin Commander Aircraft Manuals for parts installation. DOMESTIC ONLY							
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.				
15. Authorized Signature: 		16. Approval/Authorization No.: DMIR-810220-CE		20. Authorized Signature:		21. Approval/Certificate No.:	
Name (Typed or Printed): Raymond A. Kaess		18. Date (m/d/y): Sept 23 2013		22. Name (Typed or Printed):		23. Date (m/d/y):	

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/assembly. Where the user/installer performs work in accordance with this document, the user/installer is responsible for ensuring that the work is performed in accordance with the applicable FAA approved design data and that the work is performed in accordance with the applicable FAA approved design data.

Quality Aircraft Accessories Inc. (QYIR334Y)
5746 East Apache
Tulsa, OK 74115

Phone: 918-835-6948
Fax: 918-835-2804

WO1170007977

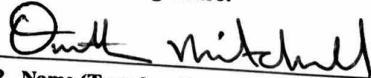
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	HYDRAULIC PUMP	105HBG-275A	N/A	1	00AA42	OVERHAUL

13. Remarks:

MANUAL # 302831 ISSUE DATE: 02/03/81

Certifies that the work specified in Block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 approval no EASA 145.5982.

See Attached Work Order Summary for details. (2) pages

14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.		19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature: 	21. Approval/Certificate No.: QYIR334Y
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): Oretta Mitchell	23. Date (m/d/y): APR 11, 2013

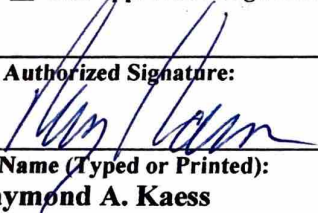
User/Installer Responsibilities

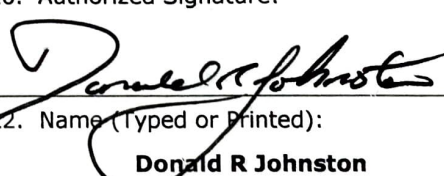
It is important to understand that the existence of this document alone does not automatically constitute authorization. Where the user/installer performs work in accordance with the instructions, it is essential that the user/installer is qualified to perform the work.

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG						3. Form Tracking Number: SO30587-04/8/2013RK	
4. Organization Name and Address: TWIN COMMANDER AIRCRAFT LLC , 1176 TELECOM DRIVE, CREEDMOOR, NC 27522								5. Work Order/Contract/Invoice Number: SO: 30587	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:			
1	DOOR AND DOUBLER KIT	SB223-501	N/A	1 EA	N/A	NEW			
13. Remarks: AIRWORTHINESS APPROVAL DOMESTIC ONLY									
The parts conform to the applicable FAA approved design data. The parts shipped under this approval were produced by Twin Commander Aircraft LLC under Production Certificate 345CE. Use appropriate Twin Commander Aircraft Manuals for parts installation.									
14. Certifies the items identified above were manufactured in conformity to:				19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13					
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.					
5. Authorized Signature: 		16. Approval/Authorization No.: DMIR-810220-CE		20. Authorized Signature:			21. Approval/Certificate No.:		
7. Name (Typed or Printed): Raymond A. Kaess		18. Date (m/d/y): Apr 08 2013		22. Name (Typed or Printed):			23. Date (m/d/y):		

User/Installer Responsibilities

is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 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

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: SO30664-04/16/2013RK-PG2	
4. Organization Name and Address: TWIN COMMANDER AIRCRAFT LLC , 1176 TELECOM DRIVE, CREEDMOOR, NC 27522						5. Work Order/Contract/Invoice Number: SO: 30664	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	RIB FATIGUE MOD KIT	SB213-1	N/A	1 EA	N/A	NEW	
2	WING FATIGUE MOD KIT	SB213-2	N/A	1 EA	N/A	NEW	
13. Remarks: AIRWORTHINESS APPROVAL DOMESTIC ONLY The parts conform to the applicable FAA approved design data. The parts shipped under this approval were produced by Twin Commander Aircraft LLC under Production Certificate 345CE. Use appropriate Twin Commander Aircraft Manuals for parts installation.							
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.				
15. Authorized Signature: 		16. Approval/Authorization No.: DMIR-810220-CE		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): Raymond A. Kaess		18. Date (m/d/y): Apr 16 2013		22. Name (Typed or Printed):		23. Date (m/d/y):	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 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.							

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: Same as Block 5	
4. Organization Name and Address: Memphis Propeller Service, Inc. 11098 Willow Ridge Drive Olive Branch, MS. 38654 (PI4R441M)						5. Work Order/Contract/Invoice Number : SG0313047	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Starter-Generator	23079-000-1	N/A	1	2549	Overhauled	
13. Remarks: FAA/PMA Brushes and Bearings Installed All work specified has been performed IAW Manufacturer's and FAA approved data and complies with Goodrich 23079 Series Rev. 10 TSN: unk CSN: unk TSO: 0.0 CSO: 0.0 All pertinent work history is kept on file at Memphis Propeller Service Inc. on Work Order SG0313047 "Certification that the work specified in blocks 12 /13 was carried out in accordance with EASA part 145 , and with respect to that work, the component is considered ready for release to service under EASA part 145 Approval No.: EASA.145.6144							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation <input checked="" type="checkbox"/> Non approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.:	
						PI4R441M	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed):		23. Date (m/d/y):	
				Donald R Johnston		Mar/21/2013	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 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.</p>							

4. Organization Name and Address:



Ameritech Industries dba American Propeller Service
20208 Charianne Drive
Redding, CA 96002

5. Work Order/Contract/Invoice Number:

16554-05-2013

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	Hartzell	Prop: Hartzell Hub: HC-B3TN-5FL Blade: LT10876ANSB-2Q	To be determined by installer.	1	Blade: K65016, K65017, K65018 Hub: BVA7910	OVERHAULED

13. Remarks:

Overhauled propeller as per Service Manual 118F, 133C and 202A. Complied with Service Bulletins SB-137A, 61-097A R1, 136 R1, 261 and 260.

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation.
- ☐ Not approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.

15. Authorized Signature:

16. Approval/Authorization No.:

20. Authorized Signature:

21. Approval/Certificate No.:

NO3R717L

17. Name (Typed or Printed):

18. Date:

22. Name (Typed or Printed):

Tony Marinkovich

23. Date (m/d/y):


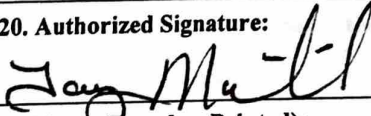
Jun 28 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

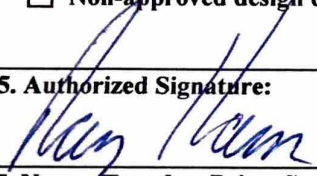
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements: Blocks 14 and 19 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.

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number:	
4. Organization Name and Address:  Ameritech Industries dba American Propeller Service 20208 Charianne Drive Redding, CA 96002				5. Work Order/Contract/Invoice Number: 16553-05-2013			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Hartzell	Prop: Hartzell Hub: HC-B3TN-5FL Blade: LT10876ANSB-2Q	To be determined by installer.	1	Blade: K76063, K76066, K76067 Hub: BVA7911	OVERHAULED	
13. Remarks: Overhauled propeller as per Service Manual 118F, 133C and 202A. Complied with Service Bulletins SB-137A, 61-097A R1, 136 R1, 261 and 260.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: NO3R717L	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): Tony Marinkovich		23. Date (m/d/y): Jun 28 2013	

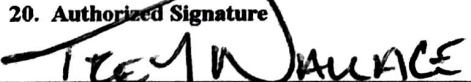
1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. <h1>AUTHORIZED RELEASE CERTIFICATE</h1> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: SO30973-06/05/2013RK	
4. Organization Name and Address: TWIN COMMANDER AIRCRAFT LLC , 1176 TELECOM DRIVE, CREEDMOOR, NC 27522						5. Work Order/Contract/Invoice Number: SO: 30973	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	ROD END ASSY	S-0382-503	N/A	1 EA	N/A	NEW	

13. Remarks:
AIRWORTHINESS APPROVAL **DOMESTIC ONLY**
 The parts conform to the applicable FAA approved design data.
 The parts shipped under this approval were produced by Twin Commander Aircraft LLC under Production Certificate 345CE.
 Use appropriate Twin Commander Aircraft Manuals for parts installation.

14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.		19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.	
15. Authorized Signature: 	16. Approval/Authorization No.: DMIR-810220-CE	20. Authorized Signature:	21. Approval/Certificate No.:
17. Name (Typed or Printed): Raymond A. Kaess	18. Date (m/d/y): Jun 05 2013	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
 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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.
 Statements in Blocks 14 and 19 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.

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: HP4442	
4. Organization Name and Address HIGHER PLANES 513 BRYANT ROAD CONROE, TEXAS 77303 (CRS HG0R145Y)				5. Work Order/Contract/Invoice Number: R6241			
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1.	Nose Landing Gear Upper Body	9920	N/A	1	218	OVERHAULED	
13. Remarks: Overhauled per Higher Planes FAA Approved Repair Process Specification HP322013R Rev. H. Dated 9/17/12. "Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and with respect to that work the aircraft component is considered ready for release to service under EASA Part-145 Approval Certificate Number: EASA.145.5500."							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature 		21. Approval/Certificate No.: CRS HG0R145Y	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): Trey Wallace		23. Date (m/d/y): Mar 26, 2013	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 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.</p>							

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 13-4889	
4. Organization Name and Address: EAGLE INDUSTRIES, INC. FAA REPAIR STATION WP1R592K 10901 SE 29TH STREET MIDWEST CITY, OK 73130					5. Work Order, Contract, or Invoice Number: 13-9481	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	OXYGEN REGULATOR	8883-00	N/A	1EA	5712	TEST
13. Remarks OVERHAULED IN ACCORDANCE WITH OVERHAUL H-144 AND SIL 35-76 FULL DETAILS ARE HELD ON WORK ORDER 13-9481						
14. Certifies the item identified above were manufactured in conformity to: Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.		
15. Authorized Signature:		16. Approval Authorization No:		20. Authorized Signature:		21. Approval/Certificate No:
				<i>Joanne Salmon</i>		WP1R592K
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed):		23. Date (m/d/y):
				JOANNE SALMON		FEB. 11, 2013
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs works 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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.</p>						
FAA Form 8130-3 (6-01)				* Installer must cross check eligibility with applicable technical data		NSN: 0052-00-012-9005

WARRANTY

Overhaul / Repair and exchange of all emergency equipment conditional 90 days from date of shipment on parts and labor. Warranty limited to specific parts used.

SERVICEABLE

PART NAME Oxygen Regulator		MFG. SCOTT
PART NO. 8883-00		SERIAL NO. 5712
W/O NO. 13-9481	CONTRACT PO13-00011	CUSTOMER AERO AR MC
THIS UNIT CHECKED AND APPROVED FOR SERVICE		
OVERHAUL BY MS	INSP. BY JS	DATE 2-13-13
REMARKS		
OVER		

E1-T1



TOLL FREE 800.448.2376 **N777NV, TCAC 690C, S/N 11680** W.O. MPROP-4871/4943/5000/5100 **Oct. 11, 2013**
TEL 503.640.3711 ACTT: 5911.8 hours/hobbs: 1080.4 hours
FAX 503.681.6513 Left engine S/N P-79682; TSO: 2499.6 hours/TSHSI: 0.0 hours
WWW.AEROAIR.COM Right engine S/N P-79683; TSO: 2499.6 hours/TSHSI: 0.0 hours
Note: hobbs ran 7.3 hours during maintenance

Complied with the following Technical Bulletins:

- **AD2012-02-06** "First Turbines" is not applicable by turbine serial numbers.
- **AD2011-11-05** "Oxygen Cylinders" is not applicable by part number of the installed cylinder.
- **AD2010-04-16** "SICLI Fire Extinguishers" is not applicable by manufacturer of the installed fire extinguisher.
- **AD2010-01-03** "Fire Fighter Fire Extinguishers" is not applicable by manufacturer of the installed fire extinguisher.
- **AD2006-15-08** "Fuel Control Splines"- performed 1000 hour left and right engine fuel control splines/fuel pump splines inspection per MM and AD2006-15-08 Alternate Means of Compliance letter No. 140L-11-346 dated Oct. 6, 2011. Next spline inspection due by ACTT: 6911.8 hours.
- **AD98-08-19** "Wing Attachment"- complied with Commander SB223, Rev. 3, Part 1 by installing inboard wing leading edge inspection doors and performing fluorescent penetrant inspection of straps per SB223, Part 1 instructions. No defects found. Next AD98-08-19 inspection due by ACTT: 6911.8 hours.
- **AD95-12-23** "Wing Fatigue Inspection and Modification"-complied with Commander SB213 Part 1 and Part 2 using Commander Kits No. SB213-1 and SB213-2. No defects found. This is terminating action for this AD EXCEPT for SB213, Part 1, Item 10 which is due each 1000 hours (next due by ACTT: 6911.8 hours).
- **Commander SB 213** "Wing Fatigue Inspection and Modification"- complied with Part 1 and Part 2. Inspection per Part 1, Item 10 is due each 1000 hours per AD95-12-23.
- **Commander SB 223, Rev. 3** "Wing Attachment"- complied with initial modification and inspection of wing root area per Part 1. Installed inboard wing leading edge inspection panels using Commander Kit No. SB223-501. Part 1 inspection is due each 1000 hours per AD98-08-19.
- **Commander SL 376** "Inspection of Main Landing Gear Clevis and Drag Brace Installations"- performed 500 hour recurring fluorescent penetrant inspection of main gear drag braces and magnetic particle inspection of clevis pins (clevis pins 8130-3 provided by NDE Professionals, CRS# 9DSR786B dated 5/20/2013).

Complied with the following scheduled maintenance:

- **150 hour/annual inspection** per Commander Periodic Inspection. AD's researched through 2013-20.
- **100 hour airframe lubrication.**
- **150 hour engine SOAP's.**
- **150 hour cabin pressure controller filter/orifice/screen cleaning.**
- **150 hour start/generator brush inspection.**
- **450 hour engine fuel nozzles** cleaned and flow checked- see engine logs for details.
- **900 hour right starter/generator overhaul** (replaced with an *overhauled* unit P/N 23079-000-1, S/N 2549, form 8130-3 provided by Memphis Propeller Service, CRS# PI4R441M dated 3/21/2013).
- **1000 hour propeller dynamic balance.**
- **2500 hour engine Hot Section Inspections-** see engine logs for details.
- **6 month/400 hour batteries capacity check.**
- **Annual/450 hour high pressure bleed air leak check.**
- **Annual ELT inspection** per FAR 91.207 (ELT battery expires 4-14).
- **Annual landing gear control ass'y lubrication.**
- **Annual portable fire extinguisher weight check.**
- **Annual elevator/rudder trim tab mechanism inspection/reseal.**
- **Annual engine magnesium housings corrosion inspection.**
- **Annual/450 hour cabin door latch and locking mechanism inspection.**
- **Annual/450 hour emergency exit latching mechanism inspection.**
- **Annual/500 hour Keith air conditioner inspection** per Keith ICA's.
- **2 year altimeter certifications** per FAR 91.411.
- **2 year transponder certifications** per FAR 91.413.
- **2 year compass swing.**
- **5 year/3000 hour landing gear and landing gear actuators inspection** per Commander Major Inspection Guide III and IV. Landing gear reassembled with cold weather seals.
- **5 year oxygen regulator inspection/test-** replaced oxygen regulator with an *overhauled* unit P/N 8883-00, S/N 5712 (form 8130-3 provided by Eagle Industries, CRS# WP1R592K dated 2/11/2013).

- 5 year **re-weight**- computed new weight and balance and inserted in POH.
- 5 year/3000 **propeller overhauls**, left propeller S/N BVA-7911 and right propeller S/N BVA-7910 *overhauled* by American Propeller Service, CRS# N03R717L.
- 6 year portable **fire extinguisher** valve overhaul- replaced fire extinguisher with a *new* Amerex extinguisher P/N C352TS, S/N Y-362963 with a manufactured date of Feb. 2013.
- 12 year portable **fire extinguisher** hydrostatic check- replaced fire extinguisher, see above for details.

Performed the following avionics upgrades (see Equipment List Supplement dated Sept. 26, 2013 for removed equipment):

Replaced pilot's and copilot's flight instruments with *new* dual Garmin **G600 Primary Flight Display (PFD)/Multi-Function Display (MFD) systems** per Garmin STC SA02153LA-D and Garmin Master Drawing List No 005-C0313-00, Rev. 10-2012, Garmin G600 Installation Manual No. 190-00601-06, Rev. K and Aero Air drawing No. 5000.2.2.1.

The following equipment was installed:

Dual Garmin GDU-620 displays P/N 011-01264-00, S/N 165002665 and S/N 165002671; #1 in the pilots instrument panel, the #2 in the copilot's instrument panel.

Dual Garmin GRS77 AHRS's P/N 011-00868-10, S/N 42023481 and S/N 01237-1326-00358AA located on an existing avionics rack in the aft equipment bay.

Dual Garmin GDC74A ADC's P/N 011-00882-10, S/N 20615319 and S/N 20615325; located on an existing avionics rack in the aft equipment bay.

Dual Garmin GTP59 OAT probes P/N 011-00978-00, S/N 47922702 and S/N 47922695; located in the aft lower fuselage at approximately FS 294.

Dual Garmin GMU44 magnetometers P/N 011-00870-00, S/N 47521813 and S/N 47521855; #1 located in the left outboard wing and #2 located in the right outboard wing.

A new instrument panel was fabricated per AC43.13-2B, Chapter 2, Para. 203 from 2024T3 aluminum (same as original) that utilizes the existing instrument panel mounts.

The #1 GDU620 display is connected to aircraft power system utilizing a 5 amp Klaxon circuit breaker labeled 'PFD 1' and connected to the DIST buss. The #1 GDU620 display is interfaced with the #2 GDU620 display, the GTN650 GPS/NAV/COMM, the GTN750 GPS/NAV/COMM, the S-Tec autopilot/flight director system, the TRC899 traffic system, the GMA35 audio panel, the #1 GRS77 AHRS and the #1 GDC74A ADC. The #1 GRS77 AHRS is connected to aircraft power system utilizing a 5 amp Klaxon circuit breaker labeled 'AHRS 1' and connected to the DIST buss. The #1 GRS77 AHRS is interfaced to the #1 GDU620 display, #1 GMU44 magnetometer and the #1 GDC74A ADC. The #1 GDC74A ADC is connected to aircraft power utilizing a 5 amp Klaxon circuit breaker labeled 'ADC 1' and connected to the DIST buss. The #1 GDC74A ADC is interfaced to the #1 GDU620 display, #1 GTP59 OAT probe and the #1 GRS77 AHRS.

The #2 GDU620 display is connected to aircraft power system utilizing a 5 amp Klaxon circuit breaker labeled 'PFD 2' and connected to the RADIO 2 buss. The #2 GDU620 display is interfaced with the #1 GDU620 display, the GTN650 GPS/NAV/COMM, the GTN750 GPS/NAV/COMM, the S-Tec autopilot/flight director system, the TRC899 traffic system, the GMA35 audio panel, the #2 GRS77 AHRS and the #2 GDC74A ADC. The #2 GRS77 AHRS is connected to aircraft power system utilizing a 5 amp Klaxon circuit breaker labeled 'AHRS 2' and connected to the RADIO 2 buss. The #2 GRS77 AHRS is interfaced to the #2 GDU620 display, #2 GMU44 magnetometer and the #2 GDC74A ADC. The #2 GDC74A ADC is connected to aircraft power utilizing a 5 amp Klaxon circuit breaker labeled 'ADC 2' and connected to the RADIO 2 buss. The #2 GDC74A ADC is interfaced to the #2 GDU620 display, #2 GTP59 OAT probe and the #2 GRS77 AHRS.

A complete operational test was performed per Garmin G600 Installation Manual No. 190-00601-06, Rev. K. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft. An FAA approved Airplane Flight Manual Supplement for the G600 system No. 190-00601-01, Rev. H has been inserted in the Flight Manual. A Garmin G600 Pilot's Guide No. 190-00601-02, Rev. F has been placed in the aircraft. The aircraft was reweighed after this installation and an Equipment List Supplement has been prepared and inserted in the Flight Manual.

This installation is recorded on FAA form 337 dated Sept. 26, 2013.

Replaced #1 Comms and Nav with a *new* Garmin **GTN-750 Touch Screen GPS/NAV/COMM system** per Garmin STC SA02019SE-D, Garmin Installation Manual 190-01007-A3, Rev. 5, Garmin MDL 005-00533-C0 and Aero Air drawing No. 5000.2.2.2. The new Garmin GTN-750 GPS/NAV/COMM P/N 011-02282-00, S/N 1ZA011983 is mounted in the center instrument panel. A new Garmin GA-37 GPS/WAAS/XM antenna P/N 013-00245-00, S/N 10862 is mounted on top the fuselage at approximately FS 130 per Strong Aero Engineering drawing No. N777NV-061113-1. This drawing is FAA approved on form 8110-3 prepared by Trevor Strong, DERT-605818-NM dated June 11, 2013.

The GTN-750 GPS/NAV/COMM is integrated into the GTN-650 GPS/NAV/COMM, #1 GDU-620 PFD/MFD's, GMA-35 audio panel, #1 and #2 GTX-33 transponders, GDL-69 XM satellite receiver, GWX-70 weather radar, DME-40, VOR/Localizer/Glideslope antennas, Comm antenna and GPS/WAAS/XM antenna. The GTN-750

and FG400A.

A placard stating "GPS Not Approved for IFR" was installed next to the GTN-650 pending satisfactory completion of flight evaluation. Upon completion of a flight evaluation in accordance with Advisory Circular AC20-138B, Para. 20-2 and AAL GPS Flight Test Report, Doc. No. 477-437, and aircraft log book entry by an appropriately rated pilot, the placard "GPS Not Apporved for IFR" may be removed.

The GTN-750 series systems are approved for VFR/IFR enroute, terminal, and non-precision approach operations including 'GPS', 'or GPS', and 'RNAV'; approaches, and approach procedures with vertical guidance including 'NAV/VNAV' and 'LPV'. The system is also approved for primary means of Class II navigation in oceanic and remote airspace, when used in conjunction with WAAS Garmin Prediction Program P/N 006-A0154-03.

A POH Supplement No. 190-01007-A2, Rev. 3 is inserted in the POH. A Pilot's Guide No. 190-01004-03, Rev. E is placed in the airplane.

The aircraft was reweighed following this installation and an Equipment List Supplement has been inserted in the POH. This installation is documented on FAA form 337 dated Sept. 26, 2013.

Replaced existing #2 Comms and Navs with a **new Garmin GTN-650 Touch Screen GPS/NAV/COMM system** per Garmin STC SA02019SE-D, Garmin Installation Manual 190-01007-A3, Rev. 5, Garmin MDL 005-00533-C0 and Aero Air drawing No. 5000.2.2.2. The new Garmin GTN-650 GPS/NAV/COMM P/N 011-02256-00, S/N 1Z8012273 is mounted in the center instrument panel. A new Garmin GA-35 GPS/WAAS antenna P/N 013-00235-00, S/N 95117 is mounted on top the fuselage at approximately FS 130 per Strong Aero Engineering drawing No. N777NV-061113-1. This drawing is FAA approved on form 8110-3 prepared by Trevor Strong, DERT-605818-NM dated June 11, 2013.

The GTN-650 GPS/NAV/COMM is integrated into the GTN-750 GPS/NAV/COMM, #1 and #2 GDU-620 PFD/MFD's, GMA-35 audio panel, #1 and #2 GTX-33 transponders, GDL-69 XM satellite receiver, DME-40, VOR/Localizer/Glideslope antennas, Comm antenna and GPS/WAAS antenna. The GTN-650 GPS/NAV/COMM is powered through a 5 amp Klaxon circuit breaker labeled 'GPS 2' on the RADIO 2 buss and a 5 amp Klaxon circuit breaker labeled 'Comm 2' on the RADIO 2 buss. Wiring conforms to MIL-W-22759, MIL-C-27500 and FG400A.

A placard stating "GPS Not Approved for IFR" was installed next to the GTN-650 pending satisfactory completion of flight evaluation. Upon completion of a flight evaluation in accordance with Advisory Circular AC20-138B, Para. 20-2 and AAL GPS Flight Test Report, Doc. No. 477-437, and aircraft log book entry by an appropriately rated pilot, the placard "GPS Not Apporved for IFR" may be removed.

The GTN-650 series systems are approved for VFR/IFR enroute, terminal, and non-precision approach operations including 'GPS', 'or GPS', and 'RNAV'; approaches, and approach procedures with vertical guidance including 'NAV/VNAV' and 'LPV'. The system is also approved for primary means of Class II navigation in oceanic and remote airspace, when used in conjunction with WAAS Garmin Prediction Program P/N 006-A0154-03.

A POH Supplement No. 190-01007-A2, Rev. 3 is inserted in the POH. A Pilot's Guide No. 190-01004-03, Rev. E is placed in the airplane.

The aircraft was reweighed following this installation and an Equipment List Supplement has been inserted in the POH. This installation is documented on form FAA form 337 dated Sept. 26, 2013.

Installed a **Garmin GDL-69 XM Satellite receiver** per Garmin STC SA01487SE-D, Garmin Installation Manual P/N 190-00355-02, Rev. K, STC MDL 005-C0217-00, Rev. N and Aero Air drawing No. 5000.2.2.5. XM weather data from the GDL-69 satellite receiver is controlled and displayed on the GTN-650 and GTN-750 GPS/NAV/COMM touch screens. The GDL-69 satellite receiver is interfaced to the GTN-750 GPS/NAV/COMM, the GTN-650 GPS/NAV/COMM and a GPS/XM antenna.

The GDL-69 satellite receiver P/N 011-00986-00, S/N 47708236 is located on an existing avionics shelf in the aft equipment bay at approximately FS 323. A Garmin GA37 GPS/XM antenna P/N 013-00235-00, S/N 10862 is installed on top of the fuselage at approximately FS 130 per Strong Aero Engineering drawing No. N777NV-061113-1. This data is FAA approved on form 8110-3 prepared by Trevor Strong, DERT-505818NM dated June 6, 2013.

The GDL-69 satellite receiver is connected to aircraft power using a Klaxon 5 amp circuit breaker labeled "XM" and connected to the Radio 2 buss. Wiring conforms to MIL-W-22759 and MIL-C-27500. An electrical load analysis was performed and found that the continuous load of the generator does not exceed 80% of capacity.

A complete operational test was performed per Garmin GDL-69 Installation Manual. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft.

There is no Flight Manual Supplement or Pilot's Guide for this installation. See the GTN-650/750 Pilot's Guide 190-01007-03 and GTN-650/750 Flight Manual Supplement 190-01007-A2 for operational information.

The aircraft was reweighed after this installation and an Equipment List Supplement has been prepared and inserted in the Flight Manual.

This installation is documented on form 337 dated Sept. 26, 2013.

Replaced existing radar with a **Garmin GWX-70 Weather Radar** per Garmin Installation Manual No. 190-00829-01, Rev. C and Aero Air wiring diagram No. 5000.2.2.6. This system is certified to meet the requirements of TSO-C63d. The Garmin GWX-70 weather radar system consists of a Garmin antenna/receiver/transmitter P/N 010-00676-00, S/N 1DP005176 with a 10" antenna mounted on the fuselage forward bulkhead at FS -32.5 in the space vacated by the

Purchase Order No.		Customer ID		Salesperson	Shipping Method	Payment Terms	
08715		18060		RYAN	SO	1% 10 NET 30	
Ordered	Shipped	B/O	Item Number	Description	Model Number	Type of Sale	W/O Number
1	1	0	23-501-06-16	ATTITUDE GYRO	5000B-36	NEW	OUTRIGHT
				Int'l Ship Info: Schedule B: 9014.20.8040 ECCN: 7A994 S/N: T98413N			

Freight Acct: 124485320

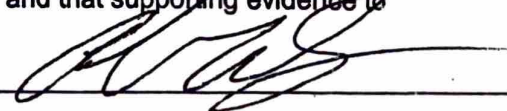
Please notify your customer in advance that a 5% Recertification Fee will be charged on all returned units.

Insufficient fund checks will be charged a service fee of \$35.00.

Thank you for doing business with Mid-Continent Instruments!

CERTIFICATE OF CONFORMANCE - It is hereby certified that all articles included in this shipment are in conformance with the requirements, specifications, and drawings applicable to the above listed order and that supporting evidence to this effect is on file at this office.

Authorized Signature _____



previous radar antenna and a Garmin GWX-70 weather radar configuration module P/N 011-00979-20 that is mounted to the Antenna/Receiver/Transmitter. The GWX-70 Weather Radar is controlled and displayed on the previously installed Garmin GTN-750 NAV/COM/GPS Touch Screen located in the center instrument panel. Operation of the Garmin GWX-70 Weather Radar is described in the Garmin GTN-750 Pilot's Guide, Document No. 190-01007-03, Rev. E or later revision.

Two vertical aluminum adapter channels fabricated from .062" 2024-T8511 P/N AND10137-0605 are mounted to the fuselage forward bulkhead utilizing the existing radar antenna mount provisions, the new Garmin GWX-70 antenna/receiver/transmitter is bolted to these vertical channels with four AN4 bolts.

The radar antenna/receiver/transmitter is interfaced only to the previously installed Garmin GTN-750 NAV/COM/GPS Touch Screen mounted in the instrument panel and is powered from the Radio 1 buss through a 5 amp Klixon circuit breaker P/N 7277-2-5 labeled 'RDR'. The interface wiring between the Garmin GWX 70 weather radar and the Garmin GTN-750 NAV/COM/GPS is FAA approved as part of Garmin STC SA2019SE-D "Garmin GTN-6XX/-7XX Navigation System Installation". Wiring from the GWX-70 radar antenna/receiver/transmitter passes through the forward pressure bulkhead utilizing spare pins in an existing connector No. P2/J2.

RFI/EMI tests were performed per AC43.13-1B, Para. 11-107 and AC43.13-2B, Para. 2-209 by energizing the Garmin GWX-70 weather radar and individually operating other electrically operated equipment and systems on the airplane and determined that no significant conducted or radiated interference exists. Evaluated all reasonable combinations of control settings and operating modes. Operated communication and navigation equipment on one low, one medium and one high-band frequency with no defects.

A complete operational test was performed per Garmin GTN-750 TSO Installation Manual Document No. 190-01007-02 as directed by the GWX-70 Weather Radar Installation Manual 190-00829-01, Para. 3.5. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft.

There is no Airplane Flight Manual Supplement for this installation because the previously installed Garmin GTN-750 Flight Manual Supplement (Document 190-01007-A2, Rev. 3 or later revision) includes the Garmin GWX-70 weather radar. The Garmin GTN-750 Pilot's Guide (Document 190-01007-03, Rev. E or later revision) has additional operating information pertaining to the Garmin GWX-70 weather radar.

The aircraft was reweighed after this installation and an Equipment List Supplement has been prepared and inserted in the Pilot's Operating Handbook.

This installation is documented on FAA field approved form 337 date Sept. 26, 2013.

Replaced original audio panels with a new **Garmin GMA-35 remote audio panel** per Garmin STC SA02019SE, Garmin GTN-6XX/7XX Installation Manual P/N 190-01007-A3, Rev. 5, STC MDL 005-00533-C0 and Aero Air drawing No. 5000.2.2.4. The GMA-35 remote audio panel is controlled and displayed on the GTN-650 and GTN-750 GPS/NAV/COMM touch screens. The GMA-35 remote audio panel is interfaced to the GTN-750 GPS/NAV/COMM, the GTN-650 GPS/NAV/COMM, overhead speakers, crew and passenger phones/mics, S-Tec digital flight control system, KGP-560 ground proximity and TRC899 Skywatch traffic.

The GMA-35 remote audio panel P/N 011-02299-00, S/N 1T6005855 is located behind the instrument panel mounted to the GTN-750 GPS/NAV/COMM rack.

The GMA-35 remote audio panel is connected to aircraft power using a Klixon 5 amp circuit breaker labeled "AUDIO" and connected to the DIST 2 buss. Wiring conforms to MIL-W-22759 and MIL-C-27500. An electrical load analysis was performed and found that the continuous load of the generator does not exceed 80% of capacity.

A complete operational test was performed per Garmin GTN-6XX/7XX Installation Manual. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft.

There is no Flight Manual Supplement or Pilot's Guide for this installation. See the GTN-650/750 Pilot's Guide 190-01007-03 and GTN-650/750 Flight Manual Supplement 190-01007-A2 for operational information.

The aircraft was reweighed after this installation and an Equipment List Supplement has been prepared and inserted in the Flight Manual. This installation is documented on FAA form 337 dated Sept. 26, 2013.

Replaced King transponders with new dual **Garmin GTX-33ES Mode S transponders** per Garmin STC SA01714WI, MDL 005-00734-04, Rev. 1, Garmin Installation Manual No. 190-00734-10, Rev. 2 and Aero Air drawing No. 5000.2.2.3. The GTX-33ES transponders P/N 011-00779-30, S/N 89125143 and S/N 89125147 are controlled through the GTN-750 touch screen GPS/NAV/COMM and the GTN-650 touch screen GPS/NAV/COMM. The GTX-33ES transponders are located on an existing avionics shelf in the aft equipment bay at FS 323. The GTX-33ES transponders are interfaced to each other, the GTN-750 touch screen GPS/NAV/COMM, the GTN-650 touch screen GPS/NAV/COMM, the GMA-35 audio panel and the existing transponder antennas. The #1 GTX-33ES transponder is connected to aircraft power using a Klixon 5 amp circuit breaker labeled 'XPDR1' connected to the Radio 1 buss. The #2 GTX-33ES transponder is connected to aircraft power using a Klixon 5 amp circuit breaker labeled 'XPDR2' connected to the Radio 2 buss. Wiring conforms to MIL-W-22759 and MIL-C-27500. An electrical load analysis was performed and found that the continuous load of the generator does not exceed 80% of capacity.

A complete operational test was performed per Garmin GTX-33ES Installation Manual. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft.

The GTX-33ES Flight Manual Supplement No. 190-00734-15, Rev. 1 or later version must be in the Flight Manual. The GTN-650 or GTN-750 Pilot's Guide provides operational information for the GTX-33ES transponders.

The aircraft was reweighed after this installation and an Equipment List Supplement has been prepared and inserted in the Flight Manual.

Refer to Garmin Maintenance Manual/TCA document No. 199-00734-11, Rev. 1 or later version for inspection and maintenance information.

This installation is documented on form 337 dated Sept. 26, 2013.

Replaced existing autopilot with a new S-TEC 2100 digital flight control system per S-TEC Corporation STC SA9928AC-D in accordance with Master Data List 931128, Rev. 11 and S-TEC Installation Instructions ST-901-3, Rev. A. The wiring interface to the Garmin G-500 PFD/MFD system is FAA approved as part of the Garmin G-500 PFD/MFD installation (STC SA82153LA-D). The S-TEC 2100 autopilot system consists of a programmer/computer P/N 01364-04-01-008, S/N 01364-1331-00 mounted in the center instrument panel per S-TEC drawing No. 761124, P/N 01364-01-01-008, S/N 01364-1331-00 mounted in the center instrument panel per S-TEC drawing No. 761124, roll servo P/N 01237-R3, S/N 01237-1328-00339AA mounted between F.S. 209 and F.S. 223 per S-TEC drawing No. 761433, elevator trim servo P/N 0186-16-T9, S/N 0106-1326-28644DCEPHJ mounted between F.S. 308 and F.S. 326 per S-TEC drawing No. 761435, pitch servo P/N 01230-P9, S/N 01230-1326-00290AA mounted just forward of F.S. 346 per S-TEC drawing No. 761434, yaw servo P/N 01237-Y6, S/N 01237-1326-00358AA mounted just forward of F.S. 346 per S-TEC drawing No. 761436, yaw damper amplifier P/N 0121-11, S/N 00121-1328-04176 mounted F.S. 433 per S-TEC drawing No. 76843 and a 429 interface converter P/N 03976, S/N 03976-1315-11486 mounted inside the pedestal per S-TEC drawing No. 761126.

The S-TEC 2100 digital flight control system is connected to aircraft power using a Kilian 5 amp circuit breaker labeled "AUTOPILOT" connected to the Radio 1 buss and a Kilian 2 amp circuit breaker labeled "TRIM" connected to the Radio 1 buss.

Wiring conforms to MIL-W-22759 and MIL-C-27500. An electrical load analysis was performed and found that the continuous load of the generator does not exceed 80% of capacity.

A complete operational test was performed per S-TEC ground check procedure No. 97-2001-016. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft. EMI tests were performed per S-TEC EMI test document No. 97-2001-07, Rev. 1.

The S-TEC 2100 digital flight control system Flight Manual Supplement No. 892134, Rev. 2 or later version must be in the Flight Manual. The Pilot's Operating Handbook, Magic 2100, Programmer/Computer P/N 01304, Software Code L or later, WAAS Capable, Document No. 87201, Rev. 2 provides operational information for the S-TEC digital flight control system.

The aircraft was reweighed after this installation and an Equipment List Supplement has been prepared and inserted in the Flight Manual.

Refer to S-TEC Instructions for Continuous Airworthiness report No. 81684, Rev. 5 or later version for inspection and maintenance information (the components are "on-condition" with no overhaul requirements).

This installation is documented on form 337 dated Sept. 26, 2013.

Complied with the following additional maintenance:

- Engines and propellers removed and reinstalled in the same position following engine inspections and propeller overhauls.
- Replaced left engine hydraulic pump with an overhauled pump P/N 105HBG-275A, S/N 00A42 (form 8130-3 provided by Quality Aircraft Accessories, CRSF QYTR334Y dated 4/11/2013).
- Replaced both wing position light lamps with new lamps P/N W1290-28.
- Repaired inoperative gear horn silencer by repairing wiring at switch and replacing both power lever gear warning microswitches with a new switches P/N 15X1H58.
- Replaced instrument panel post lights as needed.
- Replaced right exhaust seal with a new seal P/N 610683-1.
- Adjusted rudder and flap cable tensions to specifications.
- Replaced broken rivet in left engine compartment at bottom of angle that connects the wing spar to the inboard engine support beam.
- Cleaned right battery terminal and connector.
- Replace nose landing gear upper body with an overhauled unit P/N 9920, S/N 218 (form 8130-3 provided by Higher Planes, CRSF HG/R145Y dated 3/26/2013).
- Replaced nose landing gear forward torque tube and bellcrank with a new shaft P/N 330165-21 and a serviceable bellcrank P/N 330035-3 (serviceable tag provided this agency dated 6/5/2013).
- Replaced left main landing gear snubber spring with a new spring P/N ED11285.
- Replaced left main landing gear lower scissors link flange bushings with new bushings P/N ED11061.
- Dressed scoring from left main landing gear gland.
- Replaced left main landing gear auxiliary actuator elbow with a new elbow P/N AN2082204D.

- Replaced left main landing gear inboard door operating arm bearing with a *new* bearing P/N MS27644-4.
- Replaced left main landing gear primary actuator zerk fitting replaced with a *new* zerk P/N LU-640.
- Replaced right main landing gear lower body nitrogen service port forward bushing with a *new* bushing P/N ED13265-1.
- Removed, realigned and reinstalled right main landing gear outboard trunnion bushing to enable proper greasing.
- Replaced right main landing gear lower scissors link flange bushings with *new* bushings P/N ED11061.
- Replaced right main landing gear outboard door connecting link with a *serviceable* link P/N 330085-31 (Serviceable tag provided by this agency dated 6/5/2013).
- Replaced left and right main gear bungees with *new* bungees P/N 9044.
- Replaced landing gear standard hardware as needed.
- Rearranged baggage liner around the new roll servo to provide adequate clearance.
- Re-calibrated right fuel quantity indication system to specification.
- Right exhaust flange P/N 610656-65 removed, *repaired* and reinstalled (Serviceable tag provided by this agency dated 7-22-2013).
- Replaced right engine lower igniter with a *new* igniter P/N CH31547C.
- Replaced tail position light bulb with a *new* bulb P/N 34-0428070-64.
- Replaced the 'cabin depress' CB with a *new* CB P/N 7277-5-5 and replaced the 'dist buss tie' CB with a *new* CB P/N 7277-8-20.
- Replaced pilot's defrost hose with a *new* hose P/N NW2W2S6-40-6.
- Replaced standby altimeter with a *new* altimeter P/N 5934PA-3A.122, S/N 5015-10.
- Adjusted 'traffic' audio volume as needed.
- Relocated wing position light grounds from the wing tip to trailing edge ribs approximately 24" inboard from the wing tips due to electrical interference.
- Replaced Davtron clock with a *serviceable* clock P/N M811B, S/N 26295 (Serviceable tag provided by this agency dated Oct. 3, 2013).
- Replaced left fuel flow indicator clamp with a *serviceable* clamp P/N MS28042-1A (Serviceable tag provided by this agency dated Oct. 8, 2013).

APPROVAL FOR RETURN TO SERVICE

Aero Air LLC certifies that this aircraft has been inspected IAW a 150 hour Periodic/Annual Inspection and has been determined to be in an airworthy condition on the above date per the requirements of FAR91.409(f).

Signed, 

Inspector, Aero Air LLC, CRS# 09IR003Y
2050 NE 25th Ave. Hillsboro, OR 800-448-2376

N777NV, TCAC 690C, S/N 11680

Oct. 11, 2013

This aircraft is now being maintained per the manufacturer's 150 hour Periodic Inspection program.

Signed, 

Inspector, Aero Air LLC, CRS# 09IR003Y
2050 NE 25th Ave. Hillsboro, OR 800-448-2376

N777NV, TCAC 690C, S/N 11680

W.O. AVI5000/5100

Oct. 15, 2013

ACTT: 5914.2 hours/hobbs: 1080.4 hours

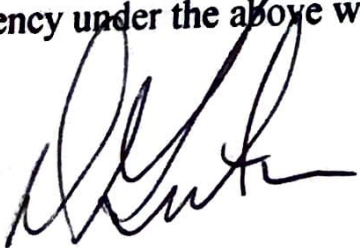
Performed the following miscellaneous maintenance:

- Replaced standby attitude gyro with a *new* gyro P/N 23-501-06-16, S/N T98413N.
- Corrected DME not receiving stations from Nav1 or Nav 2 by correcting defective serial channeling at KDI-572. Removed strapping IAW KDM-706 installation instruction manual. Functional tested per same. DME system operation satisfactory.
- Adjusted autopilot alert message volume by adjusting GMA-35 audio panel alert input #2.
- Replaced two cabin Bose headset jacks and reconnected a third Bose jack.
- Disabled the glareshield autopilot annunciator per STEC autopilot STC.

APPROVAL FOR RETURN TO SERVICE

Aero Air LLC certifies that the above identified aircraft/engine has been inspected and repaired in accordance with current FAR's is approved for return to service only for the work performed. Pertinent details are on file at this agency under the above work order.

Signed,



Inspector, Aero Air LLC, CRS# 09IR003Y
2050 NE 25th Ave. Hillsboro, OR 800-448-2376

N777NV

Date: 10-12-13

Performed a flight evaluation in accordance with Advisory Circular AC20-138B, Para. 20-2 and AAL GPS Flight Test Report, Doc. No. 477-437. The flight evaluation was satisfactory and the placard "GPS Not Approved for IFR" has been removed.

Pilot's Signature:

Marcus H. Thomason

License No. : 2753489

ACTT: 5935.2 hours/hobbs: 1161.4 hoursComplied with the following Technical Bulletins:

- **Garmin SB 1367A** "Garmin GDU-620 Software Upgrade to Version 6.21".
- **Garmin SB 1368A** "Garmin GDU-620 New Interfaces and Software Upgrade to Version 6.21- STC SA02153LA-D".

Performed the following miscellaneous maintenance:

- Installed bose headset jacks into left cabin sidewall (2 places). These jacks are interfaced to the existing intercom system (previously provisioned for these jacks).
- Adjusted position of pilot's G-600 PFD left side knob for easier operation.
- GTN650/GTN750 backlight dimming corrected by repairing wiring so dimming is controlled by the overhead instrument light dimmer.
- Repaired camera door switch wiring in center pedestal.
- Adjusted gyro pressure regulator to specification.
- Replaced autopilot controller (removed S/N 01304-1331-00356) with a *repaired* unit P/N 01304-01-01-001, S/N 01304-1331-00358 (form 8130-3 provided by S-TEC Corp., CRS# FF2R818K dated 12/16/2013).
- Troubleshoot radar altimeter reading 20-40 feet high (within published limits). Determined radar altimeter antennas are the cause of the slight error. No further action per customer request.

APPROVAL FOR RETURN TO SERVICE

Aero Air LLC certifies that the above identified aircraft has been inspected and repaired in accordance with current FAR's is approved for return to service only for the work performed. Pertinent details are on file at this agency under the above work order.

Signed, 

Inspector, Aero Air LLC, CRS# O9IR003Y
2050 NE 25th Ave. Hillsboro, OR 800-448-2376

**DUNCAN AVIATION**Reg. #: **N777NV**Date: **3/3/2014**Work Order#: **2UCAA**Make: **TWIN
COMMANDER**Model: **690C**S/N: **11680**TAT: **1141.8**

Landings:

Performed Chart Configuration Enablement to display Jeppesen charts using ChartView feature. Performed system functional test and found good in accordance with GARMIN System maintenance Manual GTN 6XX/7XX. Reference Garmin Order Number 66171158.

-----END-----

The maintenance described above has been functional tested and is approved for return to service. A detailed record is on file under Work Order #2UCAA.

Inspected By: for **DUNCAN AVIATION**, Sacramento, Ca. 916-231-0943**DUNCAN**
Q11082Greg Gancarz
(printed)Date: **March 3, 2014**

CRS #JQ0D194F

REG N777NV MODEL TWIN COMMANDER 690C S/N 11680 TAT 6012.7 LANDINGS 2384

THE FOLLOWING WAS PERFORMED BY DUNCAN AVIATION.

ACTIVATED GARMIN CHARTVIEW ON PILOT AND COPILOT GDU IAW GARMIN G600 STC AML
INSTALLATION MANUAL. FUNCTION CHECK CHARTVIEW FUNCTION GOOD.

PILOT GDU S/N 165002670 COPILOT GDU S/N 165002665

THE ABOVE DESCRIBED REPAIR OR MAINTENANCE IS APPROVED FOR RETURN TO SERVICE.
PERTINENT DETAILS OF THIS REPAIR/MAINTENANCE ARE ON FILE AT THIS REPAIR STATION UNDER
WORK ORDER 2VLUA.

DUNCAN AVIATIONSigned 

Jerald M. Johnson

DUNCAN
Q11051Date **3-24-2014**

For Duncan Aviation CRS JG0R164N McCarran Airport Las Vegas, NV 89169 702-262-6142



Aero Air, LLC

20520 1st Ave. Hillsboro, OR 97123-4488 503-448-2376

N777NV, TCAC 690C, S/N 11680

W.O. MPROP-5497

April 18, 2014

ACTT: 6052.6 hours/hobbs: 1221.2 hours

Left engine S/N P-79682; TSO: 2640.4 hours

Right engine S/N P-79683; TSO: 2640.4 hours

Complied with the following Technical Bulletins:

- **Garmin SB 1406A** "GTN Software Update"- updated the GTN-650 and the GTN-750 COMM software to version 2.13 per SB instructions.
- **Garmin Software Service Bulletin 1360, Rev. A** "Software Upgrade ...GMA35 Audio Software Version 3.07"- updated the GMA35 audio panel audio software to version 3.07 per SB instructions as authorized by Garmin STC Service Bulletin 1374, Rev. A.

Complied with the following scheduled maintenance:

- **150 hour/annual inspection** per Commander Periodic Inspection. AD's researched through 2014-07.
- 100 hour **airframe lubrication**.
- 150 hour engine **SOAP's**.
- 150 hour **cabin pressure controller** filter/orifice/screen cleaning.
- 150 hour **start/generator** brush inspection.
- 6 month/400 hour **batteries** capacity check (replaced both batteries with *new* batteries P/N G6381E, S/N G02796046 and S/N G02800632).
- 200 hour **airframe lubrication** items.
- 2 year **aft fuselage thermal switch** check per Maintenance Manual Chapter 26.
- **ELT battery** replacement, installed *new* battery P/N 452-3063, S/N 363029-123 with an expiration date of July 2017.
- 300 hour engine **fuel manifold purge** filter cleaning.
- 300 hour engine **fuel flow divider** filter cleaning.
- 300 hour engine **plenum drain** valve operational check.
- 300 hour engine **igniters** inspection.
- 300 hour **torque limiter** filter cleaning.
- 900 hour **fuel quantity** indication system calibration.
- 5 year **oxygen bottle** hydrostatic test (form 8130-3 provided by HRD Aero Systems, CRS# YN2R325L dated April 11, 2014).
- 5 year **nitrogen bottle** hydrostatic test (form 8130-3 provided by HRD Aero Systems, CRS# YN2R325L dated Apr. 10, 2014).

Performed the following maintenance:

- Adjusted gyro pressure regulator to within specifications.
- Verified proper operation of nose wheel steering.
- Sealed leaking rivets in right wing leading edge and installed *new* Goodrich right wing deice boot P/N P25S-7D5015-15, S/N NAO3490.
- Replaced flap position transmitter with an *overhauled* unit P/N 8TJ9PAV, S/N 1633 (form 8130-3 provided by Pacific Southwest Instruments, CRS# KD3R627L dated Sept. 19, 2012).
- Replaced left landing light lens with a *new* lens P/N 310958-3.
- Resealed all four brake calipers and bled brakes.
- Replaced lamp in upper anti-collision light with a *new* lamp P/N 040-0003.
- Replaced all three right propeller deice brush modules with *new* modules P/N 3E2011-1, -2 and -3.
- Replaced left aileron trim tab actuator access panel with a *new* panel fabricated per AC43.13-1B, Chapter 4, Section 4.
- Adjusted elevator cable tension and aileron cable tensions to specification.
- Replaced fluorescent lamp over entry door with a *new* lamp P/N 5113WW.
- Resealed left and right main landing gear priority valves using Commander Kits No. 185-O.
- Replaced left fuel shut-off valve with an *overhauled* valve P/N AV16B1159B, S/N J96792 (form 8130-3 provided by Southwind Aviation, CRS# UO9R076Y dated April 10, 2014).
- Replaced left main tire with a *new* tire P/N P/N 021-350-0, S/N 5049W00149.
- Replaced right ram air check valve ducting with a *new* duct P/N NW2W2S8-124-6.
- Replaced a nut plate at access panel at power brake valves and a nut plate at rudder hinge closeout.
- Replaced clevis on divan backrest support tube with a *new* clevis P/N MS21252-5RS.

Installing a *new* Garmin G1000 in the left equipment bay and a *serviceable* switching relay 171 in the instrument panel on the left side of the center pedestal. These units are wired into the zero Air wiring diagrams No. 5497.2.2 and 5497.2.2.1 utilizing existing spare wires through the aft pressure bulkhead. Prepared amended weight and balance report and Equipment List Supplement to reflect this modification.

Reconfigured GMA35 audio system to increase the headset alert volume and decrease the speaker alert volume.

Replaced camera door amber annunciator with a *new* amber annunciator P/N 25F990.

Resecured DME knob.

Replaced missing nut on first officer's yoke TCS switch.

Replaced hood on post light at fuel pressure indicator.

Replaced pilot GDU620 PFD connector (P6203) with a *new* connector P/N 60K7407.

Replaced both left engine igniters with *new* igniters P/N CH31547C.

Replaced right engine inboard igniter with a *new* igniter P/N CH31547C.

Clamped oil cooler door control cable in right engine compartment to prevent chaffing.

Verified all Garmin equipment is at latest software.

APPROVAL FOR RETURN TO SERVICE

Zero Air LLC certifies that this aircraft is
maintained to be

A/C Make:	<u>Gulfstream</u>	EL AERO SERVICES, INC.	Engine Make:	<u>N/A</u>
A/C Model:	<u>690C</u>	815 Murray Way	Engine Model:	<u>N/A</u>
Reg. No.:	<u>N777NV</u>	Elko, NV 89801	S/N:	<u>N/A</u>
S/N:	<u>11680</u>	F.A.A. Certificated Repair Station #AQHR225C	Engine TT:	<u>N/A</u>
Tach:	<u>1223.3</u>	F.A.A. Certificated Repair Station #AQHD225C	S.M.O.H.:	<u>N/A</u>
A/F TT:	<u>6054.7</u>	AIRFRAME/ENGINE LOGBOOK INSERT	W.O. #:	<u>13825</u>

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is authorized for return to service. Pertinent details are on file at this agency.

Installed gyro pressure indicator (P/N 3-310-22 S/N B2136). Operational check satisfactory.

Inspector *Shatt Petheridge*
For repair station of El Aero Services, Inc.

4/22/2014
Form EA-13

COMMANDER LOG BOOK ENTRY

7-8-14 TWIN COMMANDER#N777NV HOBBS TIME 1257.1
INTERIOR EXECUTIVE AIRCRAFT MAINTENANCE (REMOVED)
ALL PARTS.TWO FRONT SEATS INSERTS COVERED IN
GARRET S507 GRAY SHEEPSKIN LOT#81043.PO#81078
TEST#4568.DOUGLASS INTERIOR LEATHER ON TRIM.
BALMORAL CASTLE LL3412.SATEEN HIDES FR.PO#28924
REF#17663/65125.SAME LEATHER HIDES USED ON ALL
REAR SEATS.FOAM USED ON SEATS PHOENIX TRIM SUPPLY
YELLOW 1/2 REF#089194 TESTED BY SKANDIA WO#272893-14
ID#H-301063 PART#1651.SIDE LOWER PANELS COVERED IN
BAKER STEEVES CORP CLOTH TOYSTORE TRAINS PIECE#T8463
DL#44107 PO#7401 UPPER SIDE PANELS COVERED IN SAME
LEATHER HIDES.HEADLINER COVERED IN DOUGLASS INTERIOR
PRODUCTS ULTRA LEATHER COLUMBIA ADAMS PART#DEF-CD204
LOT#28981.CARPET USED DOUGLASS INTERIOR PRODUCTS DK
GREY.PART#DEC-5055/10 TEST REPORT#022714.PO#29075.ALL
SEATBELTS SENT OUT TO AVIATION SAFETY PRODUCTS INC.
FOR REWEBBING AND INSPECTEING APPROVAL/CERTIFICATE#
XWJR831X.EXECUTIVE AIRCRAFT MAINTENANCE (REINSTALLED)
ALL INETERIOR PARTS.AFTER RECOVERING.WORK PREFORMED
BY FRANK SILVAS.6841 N GLEN HARBOR GLENDALE AZ
85307 ~~XXXXXXXXXX~~ REF#4027413 FOR EAM WO INFO.
EAM GIVEN ALL BURN CERTIFACTES AND ALL 8130-3
ON SEAT BELTS.

Approved by: *Frank Silvas*
Jan A. Burt 2833700 ap/14

AIRFRAME
Twin Commander 690C

7/30/2014
S/N: 11680

N777NV

HOBBS: 1275.6 AFTT: 6115.9

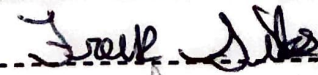
Cleaned ground for R/H fuel quantity indicator post light and ops checked with no defects noted.
Lubricated co-pilot armrest for proper operation.
Removed co-pilot USB port P/N 6430102-1, C14-11236 and installed new P/N 6430102-1, S/N E14-10408. Performed ops checks IAW Mid-Continent Instrument TA102 installation manual 9017942 Rev. F.
Removed and reinstalled lav seat cushion after adjustment of foam for proper fit.
Removed and re-installed L/H side interior trim after re-securing headset strap and repainting trim.
Removed and re-installed cockpit lower side wall for proper fit.
Removed and re-installed plastic window panels after paint touch up.
Updated GTN650 database IAW Garmin IM 190-01007-A3 Rev. 7.
Verified G600 configuration IAW Garmin IM 190-00601-06 Rev.1.
Removed ALT55B Rad Alt R/T P/N 622-2855-001, S/N 2518 and installed overhauled P/N 622-2855-001, S/N 5136 by Duncan Aviation under WO#2YTVA dated 6/6/2014. Cleaned corrosion from grounding point and replaced grounding hardware with new. Work performed IAW Collins IM 523-0775918-104118 1" Rev.
Replaced A/C receiver dryer with new P/N ES43030-2 and qty (2) expansion valves with new P/N ES26104-1. Serviced system with 2.0 lbs. R-134a. Work performed IAW Keith Products TR-134 system service manual Rev. H.
Performed ops and leak checks as required with no defects noted.
Work performed IAW Twin Commander 690C/690D Maintenance Manual M690004-2 Rev 4 and above references.

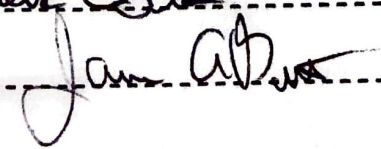
THIS AIRCRAFT WAS INSPECTED AND/OR REPAIRED IN ACCORDANCE WITH CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED. PERTINENT DETAILS ARE ON FILE UNDER THIS FAA APPROVED REPAIR STATION WORK ORDER 4028143.

INSPECTOR: 
EXECUTIVE AIRCRAFT MAINTENANCE FAA APPROVED REPAIR STATION E27R1730
7920 E. GREENWAY ROAD SCOTTSDALE, AZ 85260

TOILET SEAT

8-1-14 TWIN COMMANDER #N777NV HOBBS TIME 1275.6
TWO REAR SEATBELT EXTENDERS SENT OUT FOR RE-WEB
AT AVIATION SAFETY PRODUCTS BLAIRSVILLE, GA WO#
072814-18 PART#57-52-24-36 RESTRAINT. ONE EXTRA
BELT EXTENDER ADDED TOTAL OF THREE. RESTRAINT.
OWNERS GIVEN 8130-3 FORM FOR REAR BELTS REPAIR.
REMOVED TOILET SEAT CUSHIN FOAM AND RPLACED IT
WITH PHOENIX TRIM SUPPLY. YELLOW 1/2" FOAM#08914
TESTED BY SKANDIA WO#272893-14 ID#H-301063.
EXECUTIVE AIRCRAFT MAINTENANCE (REINSTALLED)
SEAT CUSHIN. WORK PREFORMED FRANK SILVAS.
6841 N. GLEN HARBOR GLENDALE AZ 85307.
OWNERS GIVEN COPIES OF BURN CERTIFICATES.



 2833700 LA af

Aces Aircraft Maintenance

102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 8/22/14

**N777NV
S/N 11680
MODEL 690C
AFTT 6118.8
HOBBS 1287.4**

1. REPLACED L/H OIL PRESSURE TRANSDUCER WITH NEWLY O/H UNIT P/N ON 123607-1, S/N ON 27535

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed _____

Daniel J. Hoban AP2670646

Aces Aircraft Maintenance

102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 10/3/14

N777NV
S/N 11680
MODEL 690C
HOBBS 1331.1

1. REPOSITIONED L/H UPPER IGNITION LEAD TO PREVENT SIDE LOADING OF POWER LEVER CABLE

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J. Hoban AP2670646

Aces Aircraft Maintenance

102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 10/24/14

N777NV
S/N 11680
MODEL 690C
HOBBS 1331.1

1. REPLACED R/H OIL PRESSURE TRANSDUCER WITH NEWLY O/H UNIT P/N ON 123607-1, S/N ON 21273
2. REPLACED COCKPIT OXYGEN REGULATOR WITH NEWLY O/H UNIT P/N ON 8883-00, S/N ON 5464

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Aces Aircraft Maintenance
102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 1/2/15

**N777NV
S/N 11680
MODEL 690C
HOBBS 1372.9
AFTT 6204.4**

**LEFT ENGINE
S/N P-79682
LETT 7782.0
LETC 7212**

**RIGHT ENGINE
S/N P-79683
RETT 7672.0
RETC 7102**

1. COMPLIED WITH 150 HR / ANNUAL AIRFRAME INSPECTION
2. COMPLIED WITH 150 HR L/H AND R/H ENGINE INSPECTIONS
3. COMPLIED WITH 12 MOS L/H AND R/H MAG HOUSING CORROSION INSPECTION
4. COMPLIED WITH L/H AND R/H ENGINE SOAP SAMPLING
5. COMPLIED WITH 6 MOS MAIN AIRCRAFT BATTERIES CAP CHECK
6. COMPLIED WITH 12 MOS FAR 91.207 (d) ELT FUNTIONAL TEST, BATTERY DUE 7/2017
7. COMPLIED WITH 12 MOS COCKPIT PORTABLE FIRE EXTINGUISHER VISUAL / WEIGHT CHECK
8. COMPLIED WITH 12 MOS LANDING GEAR CONTROL ASSY LUBE
9. COMPLIED WITH 12 MOS / 100, 200, 500 AND 1,000 HR AIRFRAME LUBRICATION
10. COMPLIED WITH 12 MOS / 400 HR L/H AND R/H PROPELLER INSPECTION
11. COMPLIED WITH 12 MOS / 450 HR BLEED AIR SYSTEM HIGH PRESSURE LEAK CHECK
12. COMPLIED WITH 12 MOS / 450 HR CABIN DOOR LATCHING AND LOCKING MECHANISM INSPECTION AND OPERATIONAL CHECK
13. COMPLIED WITH 12 MOS / 450 HR EMERGENCY EXIT HATCH INSPECTION AND OPERATIONAL CHECK
14. COMPLIED WITH 12 MOS / 500 HR KEITH AIR CONDITIONER ICA INSPECTION
15. COMPLIED WITH 24 MOS AFT FUSELAGE THERMAL SWITCH CHECK
16. COMPLIED WITH 150 HR CABIN PRESSURE CONTROLLER INSPECTION
17. COMPLIED WITH 450 HR SUNSTRAND ACM OIL CHANGE, SERVICED WITH MOBIL 254
18. COMPLIED WITH 450 HR SUNSTRAND ANTI-ICE VALVE FILTER CHANGE, FILTER P/N 26016030
19. COMPLIED WITH 450 HR SUNSTRAND REGULATING VALVE FILTER CHANGE, FILTER P/N 26016030
20. COMPLIED WITH 450 HR HYDRAULIC RESERVOIR FILTER REPLACEMENT, FILTER P/N AN6236-2
21. COMPLIED WITH 450 HR L/H AND R/H ITT / EGT SYSTEM CHECK AND CALIBRATION
22. COMPLIED WITH 500 HR L/H AND R/H STARTER GENERATOR BRUSH INSPECTION
23. COMPLIED WITH 900 HR FUEL QUANTITY INDICATION SYSTEM CALIBRATION
24. REPLACED L/H AND R/H LANDING LAMPS WITH NEW LED FAA PMA APPROVED LAMPS P/N 01-0790623-20
25. REPLACED NOSE LANDING GEAR DOOR SEAL WITH NEW P/N BA-1900010
26. REMOVED CORROSION FROM FUSELAGE BELLY AND BATTERY BOX DUE TO BATTERY LEAKAGE, TREATED AND REPAINTED
27. REPLACED 3 L/H PROP DE-ICER BRUSH BLOCK MODULES WITH NEW P/N RA2111U-ROD
28. ADJUSTED AND TIGHTENED CONNECTORS AT R/H PROP DE-ICER BRUSH BLOCK ASSY
29. TROUBLESHOOT AND REPLACED FUSE FOR CABIN LIGHTING
30. TROUBLESHOOT AND REPLACED FUSE FOR FASTEN SEATBELT LIGHT

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Robert J Trier AP2848063

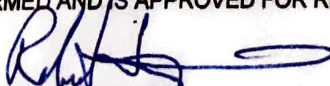
Aces Aircraft Maintenance
102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 3/17/15

**N777NV
S/N 11680
MODEL 690C
AFTT 6295.1**

1. LENGTHENED AFT 3 PLACE SEATING SEAT BELTS
2. REPLACED L/H ENGINE SPEED SWITCH WITH NEWLY O/H UNIT P/N 305538-6-1, S/N P-140

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Robert J Trier AP2848063

Aces Aircraft Maintenance
102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 2/24/15

N777NV
S/N 11680
MODEL 690C
AFTT 6277.2
HOBBS 1445.7

1. REPLACED G600 FAN ASSY WITH NEW P/N K00-00683-10

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance
102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 3/24/15

N777NV
S/N 11680
MODEL 690C
AFTT 6306.5

1. REPLACED L/H AND R/H MAIN TIRES AND ORINGS WITH NEW, TIRE P/N 850T06-3, ORING P/N 101-241100.
L/H S/N 41002307, R/H S/N 41002026

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Robert J Trier AP2848063

Aces Aircraft Maintenance
102 Wass Way, Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 4/18/15

N777NV
S/N 11680
MODEL 690C
HOBBS 1535.3
AFTT 6364.1

LEFT ENGINE
S/N P-79682
LETT 7983.6
LETC 7346

RIGHT ENGINE
S/N P-79683
RETT 7873.6
RETC 7232

1. COMPLIED WITH 150 HR / ANNUAL AIRFRAME INSPECTION
2. COMPLIED WITH 150,200,300,400 HR L/H AND R/H ENGINE INSPECTIONS
3. COMPLIED WITH LEFT AND RIGHT ENGINE SOAP SAMPLING
4. COMPLIED WITH L/H & R/H ENGINE 450 HR FLOW CHECK OF FUEL NOZZLES
5. COMPLIED WITH 100 & 200HR AIRFRAME LUBE ITEMS
6. COMPLIED WITH L/H & R/H 150HR STARTER/GENERATOR BRUSH INSPECTION
7. COMPLIED WITH 150HR CABIN PRESSURE CONTROLLER INSPECTION
8. COMPLIED WITH MAIN AIRCRAFT BATTERY CAPACITY CHECK
9. REPLACED LEFT AND RIGHT ENGINE IGNITORS WITH NEW P/N CH31547C

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646



FAA CRS NA3R703L
Reno-Stead Airport
4825 Texas Avenue
Reno NV 89506

PH (775) 972-5540

AVIATION CLASSICS, LTD.
FAA REPAIR STATION
NA3R703L
ALTIMETER CALIBRATION

Date: 12/14/2015; Aircraft: N777NV; Type: GULFSTREAM AMERICAN; S/N: 11680;
Hobbs:
Static System tested to 30,000 ft. in accordance with Appendix E of Part 43, as required
by FAR 91.411 No. 1 & No. 2 Transponders tested to comply with Appendix F of Part 43,
FAR 91.413. Pertinent details of work accomplished on file at this Agency.

Signed: [Signature] Inspector: [Signature]
Work Order #19631

for AVIATION CLASSICS Ltd. FAA CRS: NA3R703L DD/9

Test Point	Ind. Error	Test Point	Ind. Error	Test Point	Ind. Error
0	0	8000	+5	30000	+10
500	0	10000	0	35000	
1000	0	12000	0	40000	
1500	0	14000	+5	45000	
2000	0	15000	+5	50000	
2500	0	16000	0	55000	
3000	+5	18000	0	60000	
4000	+5	20000	0	70000	
5000	+5	22000	0	80000	
6000	+5	25000	+10		

DATE 10 DEC 15 SIGNED [Signature]

W.O. # 19631

AVIATION CLASSICS, LTD.
FAA REPAIR STATION
NA3R703L
ALTIMETER CALIBRATION

Test Point	Ind. Error	Test Point	Ind. Error	Test Point	Ind. Error
0	0	8000	+5	30000	+10
500	0	10000	+5	35000	
1000	0	12000	+5	40000	
1500	0	14000	+5	45000	
2000	0	15000	+5	50000	
2500	0	16000	0	55000	
3000	+5	18000	0	60000	
4000	+5	20000	0	70000	
5000	+5	22000	0	80000	
6000	+5	25000	+10		

DATE 10 DEC 15 SIGNED [Signature]

W.O. # 19631

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 2/03/2016

N777NV
S/N 11680
MODEL 690C
AFTT 6480.0
HOBBS 1658.1

LEFT ENGINE
S/N P-79682
LETT 8061.5
LETC 7417

RIGHT ENGINE
S/N P-79683
RETT 7951.3
RETC 7303

1. REPLACED NOSE GEAR STEERING COLLAR WITH NEW P/N 750077-501
2. REMOVED & REINSTALLED R/H RPM INDICATOR AFTER OVERHAUL PERFORMED BY - INSTRUMENT SPECIALTIES CO.
3. REMOVED & REINSTALLED R/H FCU AFTER REPAIR PERFORMED BY - TURBINE STANDARD
4. REPLACED NOSE LANDING GEAR TIRE WITH NEW P/N 156E66-4, S/N 41832314
5. COMPLIED WITH "6 MO" CAP CHECK MAIN AIRCRAFT BATTERIES - REPLACED WITH NEW P/N 9750W0370, S/N 1350015 & S/N 151350017 - SEE FAA FORM 337 DATED 01/14/2016 FOR DETAILS
6. COMPLIED WITH "FAR 91.207 (D)" 12 MO ELT FUNCTION TEST
7. PERFORMED 24 MO COMPASS SWING
8. COMPLIED WITH "12 MO" KEITH AIR CONDITIONER I.C.A. INSPECTION
9. COMPLIED WITH 450 HR OPERATION CHECK OF CABIN DOOR LATCHING & LOCKING MECHANISM
10. COMPLIED WITH COCKPIT POTTABLE FIRE EXTINGUISHER INSPECTION
11. COMPLIED WITH 12 MO L/H & R/H MAGNESIUM HOUSING INSPECTION
12. COMPLIED WITH 1000 HR / 12 MO AIRFRAME LUBRICATION
13. COMPLIED WITH BLEED AIR SYSTEM HIGH PRESSURE LEAK CHECK
14. COMPLIED WITH 450 HR EMERGENCY EXIT OPERATION CHECK
15. REPLACED CAMERA GPS ANTENNA WITH NEW - SEE FAA FORM 337 DATED 01/14/2016 FOR DETAILS

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed [Signature]
DANIEL J. HOBAN AP2670646

Aces Aircraft Maintenance
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 03/29/2016

N777NV
S/N 11680
MODEL 690C
AFTT 6502.2
HOBBS 1670.7

LEFT ENGINE
S/N P-79682
LETT 8079.8
LETC 7417

RIGHT ENGINE
S/N P-79683
RETT 7963.9
RETC 7303

1. PERFORMED 150 HR AIRFRAME INSPECTION
2. COMPLIED WITH 150 HR/200 HR -L/H & R/H ENGINE INSPECTION ITEMS
3. COMPLIED WITH L/H & R/H ENGINE SOAP SAMPLINGS
4. COMPLIED WITH "12 MO", 100 HR, 200 HR AIRFRAME LUBE ITEMS
5. INSTALLED NEW STATIC WICKS P/N D/G15330
6. REPAINT RADOME & INSTALL NEW RADOME BOOT P/N PM-210

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed

DANIEL J. HOBAN AP2670646

Aces Aircraft Maintenance
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 05/16/2016

N777NV
S/N 11680
MODEL 690C
AFTT 6540.4
HOBBS 1708.9

LEFT ENGINE
S/N P-79682
LETT 8118.0
LETC

RIGHT ENGINE
S/N P-79683
RETT 8002.1
RETC

1. INSTALLED "OVERHAULED" AIR CYCLE MACHINE - P/N 7367781, SN 0568

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed

DANIEL J. HOBAN AP2670646

Aces Aircraft Maintenance
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 05/18/2016

N777NV
S/N 11680
MODEL 690C
AFTT 6540.4
HOBBS 1708.9

LEFT ENGINE
S/N P-79682
LETT 8118.0
LETC

RIGHT ENGINE
S/N P-79683
RETT 8002.1
RETC

1. INSTALLED "OVERHAULED" TEMP CONTROLLER, OP CHECK NORMAL - P/N HYL250340, S/N 733J

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed

DANIEL J. HOBAN AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 09/27/2016

N777NV
S/N 11680
MODEL 690C
AFTT 6653.9
HOBBS 1815.2

LEFT ENGINE
S/N P-79682
LETT 8280.9
LETC 7604

RIGHT ENGINE
S/N P-79683
RETT 8167.3
RETC 7490

1. COMPLIED WITH 150 HR ANNUAL INSPECTION
2. COMPLIED WITH 150, 200, 300 & 400 HR, L/H & R/H ENGINE INSPECTION
3. REPLACED L/H & R/H ENGINE IGNITORS WITH NEW P/N CH31547C
4. REPLACED R/H ENGINE EGT COMPENSATING RESISTOR WITH OVERHAULED P/N897476-78, S/N 997-N
5. COMPLIED WITH L/H & R/H ENGINE SOAP SAMPLINGS
6. COMPLIED WITH L/H & R/H ENGINE OIL CHANGE
7. COMPLIED WITH 600 HR L/H & R/H ENGINE "FWD & AFT" PLENUM DRAIN INSPECTION
8. REPLACED L/H & R/H FUEL FILTER S WITH NEW P/N 038493-12
9. REMOVED & REINSTALLED L/H ENGINE STARTER GENERATOR AFTER OERHAULED - OVERHAUL PERFORMED BY THE ZEE COMPANY
10. INSTALLED NEW HYDRAULIC RESERVOIR FILTER P/N AN6236-2 & GASKET P/N 790073
11. COMPLIED WITH 450 HR SUNSTRAND ANTI ICE VALVE & REGULATING VALVE FILTER CHANGE - FILTER P/N 26016030
12. REMOVED & REPLACED ALL STATIC WICKS WITH NEW P/N 16320

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
DANIEL J. HOBAN AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 11/02/2016

N777NV
S/N 11680
MODEL 690C
AFTT 6685.5
HOBBS 1846.8

LEFT ENGINE
S/N P-79682
LETT 8312.5
LETC 7640

RIGHT ENGINE
S/N P-79683
RETT 8202.5
RETC 7526

1. REPLACED PILOT & CO-PILOT L/H & R/H RUDDER PEDAL BOOTS WITH NEW - PILOT L/H BOOTS P/ N 862324-3, R/H P/N 862324-1 - CO-PILOT BOOTS L/H P/N 862324-4, R/H P/N 862324-2
2. REPLACED BEACON LENS WITH NEW P/N 68-2170604-60
3. REPLACED L/H ENGINE COMPRESSOR SEAL - PERFORMED BY TURBINE STANDARD
4. REMOVED & REPLACED FUEL QUALITY INDICATOR AFTER RTEPAIR - REPAIR PERFORMED BY TECH-AIRE INSTRUMENTS
5. REPLACED CAMERA DOOR ELECTRIC MOTOR WITH NEW P/N M4090344

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 11/09/2016


N777NV
S/N 11680
MODEL 690C
AFTT 6691.1
HOBBS 1852.4

LEFT ENGINE
S/N P-79682
LETT 8318.1
LETC 7647

RIGHT ENGINE
S/N P-79683
RETT 8206.1
RETC 7533

1. REMOVE & REPLACED L/H & R/H R.P.M. GAUGES AFTER REPAIR - REPAIR PERFORMED BY AERO-MACH LABS, INC
2. REPLACED CAMERA DOOR OPEN LIMIT MICRO SWITCH WITH NEW P/N DT-2RV23-A7
3. REPLACED DAVTRON CLOCK BATTERY WITH NEW P/N 811-BATT-1

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 02/22/2017

N777NV
S/N 11680
MODEL 690C
AFTT 6743.4
HOBBS 1904.7

LEFT ENGINE
S/N P-79682
LETT 8370.4
LETC 7702

RIGHT ENGINE
S/N P-79683
RETT 8260.4
RETC 7588

1. COMPLIED WITH 12 MO L/H & R/H ENGINE MAG HOUSING INSPECTION
2. COMPLIED WITH "FAR 91.207 (d)" 12 MO ELT FUNCTION TEST
3. COMPLIED WITH 24 MO AFT FUSELAGE THERMAL SWITCH INSPECTION
4. COMPLIED WITH 12 MO / 500 HR KEITH AIR CONDITIONER ICA INSPECTION
5. COMPLIED WITH 12 MO / 450 HR CABIN DOOR LATCHING & LOCKING MECH INSPECTION
6. COMPLIED WITH 12 MO LANDING GEAR CTL ASSEMBLY LUBE
7. COMPLIED WITH 12 MO COCKPIT PORTABLE FIRE EXT VISUAL / WEIGHT CHECK
8. COMPLIED WITH 12 MO / 1000 HR AIRFRAME LUBE
9. COMPLIED WITH 12 MO / 450 HR EMERGENCY EXIT OPERATION CHECK
10. COMPLIED WITH 12 MO / 450 HR BLEED AIR SYSTEM HIGH PRESSURE LEAK CHECK

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 CT - Ste 200 Minden, NV 89423
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 02/22/2017

N777NV
MODEL 690C
S/N 11680

THIS AIRCRAFT HAS BEEN INSPECTED AND HAS BEEN FOUND SAFE FOR INTENDED FLIGHT FROM KMEV TO KDWH IN ACCORDANCE WITH SPECIAL FLIGHT PERMIT DATED 02/22/2017.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 08/09/2017

N777NV
S/N 11680
MODEL 690C
AFTT 6805.0
HOBBS 1967.6

LEFT ENGINE
S/N P-79682
LETT 8432.0
LETC 7752

RIGHT ENGINE
S/N P-79683
RETT 8322.0
RETC 7638

1. COMPLIED WITH 150 HR AIRFRAME INSPECTION
2. COMPLIED WITH 100 HR & 200 HR AIRFRAME LUBRICATION
3. COMPLIED WITH 150, 200, 300 HR L/H & R/H ENGINE INSPECTIONS
4. COMPLIED WITH 450 HR L/H & R/H ENGINE FUEL NOZZLES CLEAN & TESTING - PERFORMED BY TENNESSEE AIRCRAFT CO. NOZZLE SET P/N 3103235-11
5. COMPLIED WITH L/H & R/H ENGINE SOAP SAMPLINGS
6. COMPLIED WITH "AD 95-12-23 (SB213)" 1000 HR FLUORESCENT PENETRANT INSPECTION OF DOUBLERS AT FS144 FRAME AT WING ATTACH FITTINGS PER TWIN COMMANDER, PART1, ITEM 10 PERFORMED BY LEVEL III NDT, INC - DOUBLERS S/N 690C-11680 - NEXT DUE 7805.0 AFTT
7. COMPLIED WITH "FAR 91.411 & 91.413" 24 MO L/H & R/H ALTIMETERS, TRANSPONDERS & PITOT STATIC TEST - PERFORMED BY AVIATION CLASSICS
8. COMPLIED WITH 24 MO ELT BATTERY REPLACEMENT WITH NEW P/N 452-3036 - NEXT REPLACEMENT DUE 08/2020
9. COMPLIED WITH 18 MO L/H & R/H MAIN AIRCRAFT BATTERY CAPACITY CHECK
10. REMOVED AND REPLACED R/H STARTER GENERATOR AFTER OVERHAUL - OVERHAUL PERFORMED BY THE ZEE COMPANY STARTER GENERATOR P/N 23079-000-1, S/N 2549
11. COMPLIED WITH L/H & R/H STARTER GENERATOR BRUSH INSPECTION
12. COMPLIED WITH 1950 HR MAIN CABIN DOOR INSPECTION
13. COMPLIED WITH 1950 HR EMERGENCY EXIT DOOR INSPECTION
14. COMPLIED WITH 150 HR CABIN PRESSURIZATION CONTROLLER INSPECTION
15. REMOVED & REPLACED L/H & R/H MLG TIRES WITH NEW - TIRES P/N 850T06-3, O-RINGS P/N MS28775-266
16. REMOVED & REPLACED R/H POSITION LIGHT BULB WITH NEW P/N 75-12-14
17. REMOVED, CLEANED & RESEALED PARKING BRAKE VALVE - O-RING KIT P/N 139-0
18. INSTALLED NEW RADOME BOOT P/N PM-210
19. REPLACED ALL 4 MLG BUNGIES WITH NEW - P/N 9044

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed [Signature]
Daniel J Hobart AP2670646



FAA CRS NA3R703L
Reno-Stead Airport
4625 Texas Avenue
Reno NV 89506

PH: (775) 972-5540

Date: 8/01/2017; Aircraft: N777NV; Type: GULFSTREAM AMERICAN; S/N: 11680
Pilot's & Co-Pilot's Altimeters, & Single Static System tested to 30,000 ft. in accordance with Appendix E of Part 43, as required by FAR 91.411. No. 1 & 2 Transponders tested to comply with Appendix F of Part 43, FAR 91.413. Pertinent details of work accomplished on file at this Agency.

Signed: [Signature] Inspector: [Signature]
Work Order #20588
for AVIATION CLASSICS Ltd. FAA CRS: NA3R703L DD/9

Test Point	Ind. Error	Test Point	Ind. Error	Test Point	Ind. Error
-1000	0	6000	0	22000	20
0	0	8000	0	25000	20
500	0	10000	0	30000	20
1000	0	12000	0	35000	20
1500	0	14000	0	40000	20
2000	0	16000	0	45000	20
3000	0	18000	0	50000	20
4000	0	20000	0		

DATE 8/13/17 SIGNED [Signature]
W.O. # 20588

AVIATION CLASSICS, LTD.
FAA REPAIR STATION
CO-PILOT NA3R703L
ALTIMETER CALIBRATION

Test Point	Ind. Error	Test Point	Ind. Error	Test Point	Ind. Error
-1000	0	6000	0	22000	20
0	0	8000	0	25000	20
500	0	10000	0	30000	20
1000	0	12000	0	35000	20
1500	0	14000	0	40000	20
2000	0	16000	0	45000	20
3000	0	18000	0	50000	20
4000	0	20000	0		

DATE 8/13/17 SIGNED [Signature]
W.O. # 20588

Aces Aircraft Maintenance
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 10/02/2017


N777NV
S/N 11680
MODEL 690C
AFTT 6857.9
HOBBS 2019.1

LEFT ENGINE
S/N P-79682
LETT 8484.9
LETC 7806

RIGHT ENGINE
S/N P-79683
RETT 8374.9
RETC 7692

1. REPLACED #1 LOW PRESSURE FUEL PUMP WITH NEW - P/N 3B74, INSTALLATION KIT P/N CK186
2. TIGHTEN FRICTION CONDITION LEVERS
3. SECURED SIDE CAMERA DOOR ANNUNCIATION PANEL
4. REPAIR CABIN TABLE & INTERIOR SIDE PANELS

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 01/04/2018

N777NV
S/N 11680
MODEL 690C
AFTT
HOBBS

LEFT ENGINE
S/N P-79682
LETT
LETC

RIGHT ENGINE
S/N P-79683
RETT
RETC

1. REPLACED L/H FUEL PRESSURE TRANSDUCER WITH NEW P/N 850493-509, S/N 362951-1
2. REPLACED L/H SPEED SWITCH WITH OVERHAULED P/N 305538-6-1, S/N P-282

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 02/12/2018

N777NV
S/N 11680
MODEL 690C
AFTT 6965.8
AFTC 845
HOBBS 2126.3

LEFT ENGINE
S/N P-79682

LETT 8592.8
LETC 7915

RIGHT ENGINE
S/N P-79683

RETT 8482.8
RETC 7801

1. REPLACED R/H MAIN LOWER GEAR FORK WITH OVERHAULED - P/N ES12423-1
2. REPLACED WHEEL & TIRE ASSEMBLY WITH NEW - TIRE P/N 850T06-3, WHEEL ASSEMBLY P/N 40-107A

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 02/23/2018

N777NV
S/N 11680
MODEL 690C
AFTT 6965.3
HOBBS 2126.4

LEFT ENGINE
S/N P-79682
LETT 8592.3
LETC 7908

RIGHT ENGINE
S/N P-79683
RETT 8482.3
RETC 7794

1. COMPLIED WITH 150 HR AIRFRAME INSPECTION
2. COMPLIED WITH 150, 200, 300 & 400 HR L/H & R/H ENGINE INSPECTIONS
3. COMPLIED WITH L/H & R/H SOAP SAMPLINGS
4. COMPLIED WITH 12 MO / 500 HR KEITH AIR CONDITIONER ICA INSPECTION
5. COMPLIED WITH 12 MO / 450 HR CABIN DOOR LATCHING & LOCKING MECH INSPECTION
6. COMPLIED WITH 12 MO / 450 HR EMERGENCY EXIT OPERATION CHECK
7. COMPLIED WITH 450 HR L/H & R/H ENGINES ITT & EFT SYSTEM CALIBRATION & CHECK
8. COMPLIED WITH 12 MO LANDING GEAR CTL ASSEMBLY LUBE
9. COMPLIED WITH "FAR 91.207 (d)" 12 MO ELT OPERATIONAL CHECK
10. COMPLIED WITH 12 MO COCKPIT PORTABLE FIRE EXT VISUAL / WEIGHT CHECK
11. COMPLIED WITH 12 MO / 1000 HR AIRFRAME LUBE
12. COMPLIED WITH 12 MO / 450 HR BLEED AIR SYSTEM HIGH PRESSURE LEAK CHECK
13. COMPLIED WITH 12 MO L/H & R/H MAG HOUSING CORROSION INSPECTION
14. COMPLIED WITH 24 MO COMPASS SWING
15. COMPLIED WITH 200 HR AIRFRAME LUBRICATION
16. COMPLIED WITH 400 HR L/H & R/H PNEUMATIC LINES & SLEEVES INSPECTION
17. COMPLIED WITH 150 HR CABIN PRESSURIZATION CONTROLLER INSPECTION
18. COMPLIED WITH L/H & R/H ENGINE STARTER GENERATOR BRUSH INSPECTIONS
19. REBONDED RADOM
20. REMOVED & REINSTALLED OVERHAULED FUEL FLOW TRANSMITTER AT #1 ENGINE OPS LEAK PERFORMED BY TECH
AIR INSTRUMENTS P/N 850590-513
21. OXYGEN SERVICE
22. REMOVED FAILED GYRO PRESSURE GAUGE. INSTALLED NEW GYRO PRESSURE GAUGE P/N 6001-100-2
23. RECENTERED YAW ACCELEROMETER
24. FOUND CENTER BOLT OF NOSE SCISSOR LOOSE. TIGHTENED BOLT/CASTLE NUT, REINSTALLED COTTER PIN
25. FOUND LOOSE INTERCONNECT VENT LINE AT OUTBOARD FUEL BLADDER, TIGHTENED LOOSE LINE, CLOSED FUEL
TANK
26. INSTALLED NEW ENGINE IGNITORS ON R/H & L/H ENGINES P/N CH31547C
27. INSTALLED NEW L/H & R/H POSITION LIGHT LENSES P/N 23009-24 & 23009-23
28. REPLACE BRAKE LININGS WITH NEW P/N 066-09000
29. REPLACED BEARINGS ON L/H MLG WHEEL AND NOSE WHEEL
30. REPLACED R/H TAIL PIPE SHROUD WITH NEW
31. REPLACED R/H WING INSPECTION BULB WITH NEW P/N 7079B-24

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY
AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK
PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

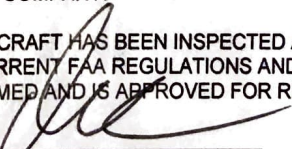
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 11/06/2018

N777NV
S/N 11680
MODEL 690C
AFTT 7152.9

1. REMOVED & REINSTALLED R/H STARTER GENERATOR P/N 23079-000-1 S/N 2549 AFTER OVERHAUL BY THE ZEE
COMPANY.

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY
AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK
PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 09/25/2018

**N777NV
S/N 11680
MODEL 690C
AFTT 7119.1**

**LEFT ENGINE
S/N P-79682
LETT 8746.1
LETC 8052**

**RIGHT ENGINE
S/N P-79683
RETT 8636.1
RETC 7938**

1. COMPLIED WITH 150 HR / 12 MO AIRFRAME INSPECTION
2. COMPLIED WITH 150, 200 & 300 HR L/H & R/H ENGINE INSPECTIONS
3. COMPLIED WITH 600 HR L/H & R/H FWD AND AFT PLENUM DRAIN VALVE INSPECTION & CLEANING
4. COMPLIED WITH "AD 2018-13-05" 150 HR ENGINE SOAP SAMPLING - RESULTS NORMAL - NEXT DUE ON OR BEFORE 7269.1 AFTT
5. COMPLIED WITH 200 HR & 500 HR AIRFRAME LUBRICATION
6. COMPLIED WITH 150 HR CABIN PRESSURIZATION CONTROLLER INSPECTION
7. COMPLIED WITH 5 YR LANDING GEAR MAJOR INSPECTION
8. REPLACED L/H & R/H PROPELLERS WITH NEW MT-5 BLADE PROPS - SEE FAA FORM 337 DATED 9/25/18 FOR DETAILS
9. PERFORMED L/H & R/H PROPELLER DYNAMIC BALANCE TO .03 IPS
10. COMPLIED WITH FUEL QUANTITY INDICATION SYSTEM CALIBRATION
11. COMPLIED WITH L/H & R/H ITT/EGT CALIBRATION AND CHECK
12. COMPLIED WITH L/H & R/H FUEL CONTROL PUMP INTEGRITY INSPECTION
13. COMPLIED WITH L/H & R/H STARTER GENERATOR BRUSH INSPECTION
14. COMPLIED WITH NITROGEN BOTTLE EMERGENCY GEAR HYDROSTATIC INSPECTION - PERFORMED BY OBRIEN ENTERPRISES
15. COMPLIED WITH O2 BOTTLE HYDROSTATIC INSPECTION - PERFORMED BY OBRIEN ENTERPRISES
16. COMPLIED WITH O2 REGULATOR OVERHAUL - PERFORMED BY COMPRESSED GAS SYSTEMS
17. REPLACED PILOT G600 FAN MODULE P/N K00-00683-10
18. READJUSTED CAMERA DOOR OPEN LIGHT SWITCH
19. REMOVED & INSTALLED NEW WINGTIP NAV BULB, OP CHECKED NORMAL - P/N 7512-24
20. REMOVED & INSTALLED NEW TAIL NAV BULB - OP CHECKED NORMAL - P/N A508-28
21. REPLACED L/H & R/H ENGINE BETA PRESSURE SWITCHES WITH OVERHAULED - P/N 865956-6
22. REPLACED L/H & R/H ENGINE TAIL PIPE SEALS WITH NEW - P/N 610683-1

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed


Daniel J Heban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 12/04/2018

N777NV
S/N 11680
MODEL 690C
HOBBS 2333.2

1. INSTALLED REPAIRED ELEVATOR TRIM X-MITTER INSTR P/N 850633
2. INSTALLED NEW TEMP SENSOR ON R/H ENGINE P/N 3101728-8 S/N
3. REPLACED R/H & L/H GENERATOR INLET HEAT ELEMENTS WITH NE
4. REPLACED SPEED SWITCH P/N 305538-6-1 S/N P-782
5. REPLACED ELEVATOR TRIM ANNUNCIATOR SWITCH PERFORMED I

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTH PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 01/03/2019

N777NV
S/N 11680
MODEL 690C
HOBBS 2334.3

1. RIGGED R/H ENGINE TO PROP PITCH CONTROL & RESET FLIGHT IDLE
2. WELDED R/H GENERATOR COOLING DUCT ATTACHMENT TAB

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646



REG: N777NV SN:11680 HOBBS:2333.7 DATE:12/19/2018

Removed: GTX33 Transponder PN:011-00779-30 SN:89125147

Installed: GTX345 Transponder PN011-03303-00 SN:3EH022154;

Flighstream510 PN:010-01322-01 SN:402007111

Provided a FAA approved 337, revised Wt & Balance and Equipment List, ICA and Pilots Guide. Installed, configured, and performed a full ground and flight operational check IAW FAR 91.407. W.O. 15158


David DeCant CRS# E5VR306N



REG:N777NV SN:11680 HOBBS:233.7 DATE:12/21/18

GTN 650/750

UPDATE GTN 650 AND 750 SOFTWARE. Updated both GTN's software from V6.21 to 6.51 as per STC SB 1876 Rev A Dated October 25, 2018.

GDU-620 #1 AND #2

UPDATE BOTH GDU-620 SOFTWARE. Updated both PFD's software from V7.0 to V7.30 as per SB 1861 Rev A dated August 28, 2018.

GDL69

UPDATE GDL69 SOFTWARE. Updated GDL69 software from V4.01 to V4.02 as per SB 1329 Rev A dated May 15, 2013.

WO:15158


David DeCant CRS# E5VR306N



REG:N777NV SN:11680 HOBBS:2333.7 DATE: 12/21/2018

DESCRIPTION OF WORK:

Static cert: I certify that the Altimeter and Static System Test required by FAR 91.411 was performed and found to comply with FAR 43, Appendix E, Par. (a), (b), and (c). The installed system meets the requirements of FAR 91.217. The altimeter was tested to 30K ft. on 12/21/18.

P/N:GDU-620 S/N:165002665

P/N:GDU-620 S/N:165002675

P/N:A-122 S/N:501510

I certify that the Transponder was tested per FAR 91.413 and found to comply with FAR 43, Appendix F.

Transponder Model:GTX345R S/N:3EH022154

Transponder Model #2:GTX330R S/N:89125143

ADC Model:GDC74A S/N:20615325

W.O:15158


David DeCant CRS# E5VR306N

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 01/14/2019

N777NV

S/N 11680

MODEL 690C

AFTT 7177.6

HOBBS 2338.7

1. REPLACED EMERGENCY HYDRAULIC PRESSURE SWITCH WITH NEW P/N P10M47 S/N 2898

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed


Daniel J Hoban AP2670646



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 FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Nationality and Registration Mark N777NV	Serial No. 11680	Series
	Make GULFSTREAM AM CORP COMM DIV	Model 690C	
2. Owner	Name (As shown on registration certificate) NEVADA DEPARTMENT OF TRANSPORTATION	Address (As shown on registration certificate) 1263 S STEWART ST City CARSON CITY State NV Zip 89701-5229 Country USA	

3. For FAA Use Only

4. Type

5. Unit Identification

Repair	Alteration	Unit	Make	Model	Serial Number
<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 **Executive AutoPilots**

Address **5839 Freeport Blvd.**

City **Sacramento**

State **CA**

Zip **95822**

Country **USA**

☐ U.S. Certificated Mechanic

☐ Foreign Certificated Mechanic

☒ Certificated Repair Station

☐ Certificated Maintenance Organization

☐ Manufacturer

C. Certificate No.

E5VR306N

RAD-1, L-RAD, L-INS, L-AF

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 ☐

Signature/Date of Authorized Individual

Andrey Kalchenko

Andrey K

12/21/18

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	Person Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or
Registration No. **E5VR306N**

Signature/Date of Authorized Individual

Andrey Kalchenko

Andrey K

12/21/18

NOTICE

Receipt and balance of operating facilities charges shall be entered in the appropriate account - account. An attention must be
 completed with all previous documents to ensure compliance with the applicable documentation requirements.

3. Description of Work Accomplished

If work space is required, attach additional sheets. Identify with correct category and organization (state and local agency, non-profit, etc.)

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Indicating and Organization Name

Date

Page 20000

The purpose of the document is to provide a clear and concise description of the work accomplished under the contract. The document is organized into sections that describe the work accomplished, the results achieved, and the conclusions reached. The document is organized into sections that describe the work accomplished, the results achieved, and the conclusions reached.

Summary

Summary

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Summary

Summary

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Summary 000000 is the first section of the document. It provides a brief overview of the work accomplished under the contract. The summary is organized into sections that describe the work accomplished, the results achieved, and the conclusions reached. The summary is organized into sections that describe the work accomplished, the results achieved, and the conclusions reached.

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000000

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 2/25/2019

N777NV
S/N 11680
MODEL 690C
AFTT 7215.8
AFTC 7752

1. COMPLIED WITH 500 HR, 12 MO KEITH AIR CONDITIONAL ICA
2. COMPLIED WITH 12 MO / 450 HR CABIN DOOR LOCKING/LATCH MECHANISM INSPECTION CHECK
3. COMPLIED WITH 12 MO LUBRICATION OF LANDING GEAR CONTROL ASSEMBLY
4. COMPLIED WITH FAR 91.207(d), 12 MO ELT OPERATIONAL CHECK
5. COMPLIED WITH 12 MO COCKPIT FIRE EXTINGUISHER INSPECTION
6. COMPLIED WITH 24 MO AFT FUSELAGE THERMAL SWITCH INSPECTION
7. COMPLIED WITH 12 MO L/H & R/H MAG HOUSING CORROSION INSPECTION
8. COMPLIED WITH 1000 HR / 12 MO AIRFRAME LUBRICATION
9. COMPLIED WITH 12 MO /450 HR BLEED AIR SYSTEM HIGH PRESSURE LEAK CHECK
10. COMPLIED WITH 18 MO MAIN AIRCRAFT BATTERY CAPACITY CHECK
11. COMPLIED WITH 12 MO / 450 HR / EMERGENCY EXIT OPERATIONAL CHECK
12. REATTACHED COUCH ARM REST INTERIOR BRACKET COVER

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 3/21/2019

N777NV
S/N 11680
MODEL 690C
AFTT 7240.6
HOBBS 2401.7

LEFT ENGINE
S/N P-79682
LETT 8866.6
LETC 8169

RIGHT ENGINE
S/N P-79683
RETT 8757.6
RETC 8055

1. REPLACED L/H START PRESSURE REGULATOR WITH OVERHAULED 3167174-5
2. REPLACED L/H SPR CHECK VALVE WITH SERVICEABLE P/N 394312-12-2 S/N P-1254C
3. REPLACED R/H START PRESSURE REGULATOR WITH OVERHAULED P/N 3167174-5
4. REPLACED R/H SPR CHECK VALVE WITH SERVICEABLE P/N 394312-12-1 S/N P-3068
5. RE-SEALED & CLEANED R/H FWD BRAKE CALIPER, OPS CHECKED NORMAL P/N MS28775-227 & P/N MS 28775-110

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 5/8/2019

N777NV
S/N 11680
MODEL 690C
AFTT 7273.2
HOBBS 2434.3

LEFT ENGINE
S/N P-79682
LETT 8900.2
LETC 8200

RIGHT ENGINE
S/N P-79683
RETT 8790.2
RETC 8084

1. COMPLIED WITH 150 HR AIRFRAME INSPECTION
2. COMPLIED WITH 150 HR CABIN PRESSURIZATION CONTROLLER INSPECTION
3. COMPLIED WITH 200 HR AIRFRAME LUBRICATION
4. COMPLIED WITH 150, 200 & 400 HR ENGINE INSPECTION ON L/H & R/H ENGINES
5. COMPLIED WITH "AD 2018-13-05" 150 HR ENGINE SOAP SAMPLING - RESULTS NORMAL - NEXT DUE ON OR BEFORE 7423.2 AFTT
6. REMOVED L/H & R/H FUEL NOZZLES & REPLACED WITH OVERHAULED NOZZLES P/N 3103235-9-11
7. INSTALLED NEW L/H MLG TIRE & WHEEL ORING P/N 850T06-3 & MS28775-266
8. CLEANED & INSTALLED NEW ORINGS ON L/H AFT BRAKE CALIPER P/N MS28775-110 & MS28775-227
9. ADJUSTED NOSE STEERING COLLAR & TESTED
10. RESEALED OUTBOARD WET WING FUEL BAYS
11. REMOVED & INSTALLED OVERHAULED R/H ENGINE SPR FUEL VALVE P/N 394312-12-1 S/N P-5005
12. REPLACED STROBE LIGHT ON LOWER BEACON P/N 01-0770029-31

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200

PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 6/11/2019

N777NV
S/N 11680
MODEL 690C
AFTT 7298.3
HOBBS 2459.4

LEFT ENGINE
S/N P-79682
LETT 8925.3
LETC 8221

RIGHT ENGINE
S/N P-79683
RETT 8815.3
RETC 8105

1. REPAIRED FUEL LEAKS AT R/H OUTBOARD FWD WET WING BAY
2. WARRANTY REPLACEMENT OF L/H & R/H SPR VALVES P/N 394312-12-1 S/N P-3068 & P-3737

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 12/23/19

N777NV
S/N 11680
MODEL 690C
AFTT 7401.1
HOBBS 2562.2

LEFT ENGINE
S/N P-79682
LETT 9027.1
LETC 8302

RIGHT ENGINE
S/N P-79683
RETT 8918.1
RETC 8198

1. COMPLIED WITH 150 HR AIRFRAME INSPECTION IAW AMM 5-10-00
2. COMPLIED WITH "AD 2018-13-05" 150 HR ENGINE SOAP SAMPLING - RESULTS NORMAL - NEXT DUE ON OR BEFORE 9177.1 LETT & 9068.1 RETT
3. COMPLIED WITH "FAR 91.207 (d) 12 MO ELT INSPECTION & TEST
4. COMPLIED WITH 150, 200 & 300 HR ENGINE INSPECTION ON L/H & R/H ENGINES IAW EMM 72-00-00
5. COMPLIED WITH 150 HR CABIN PRESSURIZATION CONTROLLER INSPECTION IAW AMM 21-30-00
6. COMPLIED WITH 150 HR L/H & R/H STARTER GENERATOR INSPECTION IAW AMM 24-30-00
7. COMPLIED WITH 200 HR AIRFRAME LUBRICATION IAW AMM 5-10-00
8. COMPLIED WITH 450 HR / 12 MO BLEED AIR SYSTEM HIGH PRESSURE LEAK CHECK IAW AMM 21-60-01
9. COMPLIED WITH 450 HR CABIN DOOR LOCKING/LATCH MECHANISM INSPECTION CHECK IAW AMM 52-10-00
10. COMPLIED WITH 500 HR / 12 MO KEITH AIR CONDITIONING
11. COMPLIED WITH 1000 HR / 12 MO AIRFRAME LUBRICATION IAW AMM 5-10-00
12. COMPLIED WITH 12 MO COCKPIT PORTABLE WEIGHT FIRE EXTINGUISHER INSPECTION IAW AMM 25-20-00
13. COMPLIED WITH 12 MO LUBRICATION OF LANDING GEAR CONTROL ASSEMBLY IAW AMM 5-10-00
14. COMPLIED WITH 12 MO L/H & R/H MAG HOUSING CORROSION INSPECTION IAW EMM 72-00-00
15. COMPLIED WITH 18 MO MAIN AIRCRAFT BATTERY CAPACITY CHECK IAW AMM 24-30-00
16. COMPLIED WITH 24 MO COMPASS SWING INSPECTION IAW GARMIN ICA
17. COMPLIED WITH 72 MO COCKPIT FIRE EXTINGUISHER VALVE OVERHAUL IAW NFPA 10 - PERFORMED BY ABC FIRE

THIS AIRCRAFT HAS BEEN INSPECTED AND OR REPAIRED IN ACCORDANCE WITH TWIN COMMANDER SUPPORT LIBRARY AND CURRENT FAA REGULATIONS AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Signed 
Daniel J Hoban AP2670646

Aces Aircraft Maintenance

CRS#: 441R632D
2323 P-51 Court - STE 200
PH (775) 783-4883 Fax (775) 783-4889

AIRFRAME LOG ENTRY DATE 05/26/2020

N777NV
S/N 11680
MODEL 690C
AFTT 7418.1
HOBBS 2579.3

LEFT ENGINE
S/N P-79682
LETT
LETC

RIGHT ENGINE
S/N P-79683
RETT
RETC

1. CHANGED TAIL NUMBER TO N885LV - PERFORMED BY ROSSER ENTERPRISES
2. REPROGRAMMED #1 & #2 TRANSPONDERS TO DISPLAY N885LV

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Signed 
CRS # 441R632D
Daniel J. Hoban