# AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

## **AIRCRAFT**

1	Nationality and Registration	N258 DS
2.	Manufacturer's Designation	DA 40
3.	Manufacturer's Serial Number	40.836
4.	Type Approval or Specification Number	A-224/A47CE
5.	Date of Manufacture	2007
6.	Aircraft Inspection Cycle	

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# ENGINEERING RECORD

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## ENGINEERING RECORD

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#### **Airframe**

Aircraft: N645WT Model: DA-40 Serial 40.836 HM: 40.4 Date July-11-08 Flat tire on taxiway. Jacked aircraft, removed wheel fairing, placed flat main on dolly and towed aircraft to hangar. Placed aircraft on jacks, removed right wheel assy and gave to owner. Owner returned with wheel assy with new tire installed by Winner Aviation CRS No. W6NR985J W.O. # 40-05768. Reinstalled wheel assy and fairing IAW DA 40 Series AMM Doc 06.02.01 Rev 4 Chapter 32-40-00 pg 201 & 202.

The aircraft/engine/component identified above was repaired and or inspected in accordance with current FAA Regulations and is approved for Return to Service. Pertinent details of the repair/Inspection are on file at this repair station under WO 08-5123 dated July 11, 2008.

MECHANIC: Di Motor

DATE: 7-//-08 CERT: J5ZR345Y

INSPECTOR: Oathelle

DATE: 7-11-08 CERT: J5ZR345Y

WILLIAMS AVIATION FBO, LLC AKRON-FULTON AIRPORT

1535 EXETER ROAD **AKRON, OH 44306** 

(330) 733-4760 P (330) 733-4766 F



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

#### **AIRFRAME** N645WT <> Diamond DA40XL <> S/N: 40.836

C/W 50 Hour Inspection.

2. Installed New Right Forward Nav Light Bulb, P/N: W1290-28.

3. AD 2008-06-51E, Superseded to AD 2008-08-14.

C/W AD 2008-08-14, Fuel Servo Plug. Per SB PRS-107. Found Satisfactory. Due Every 50 Hours or Oil Change.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 7-29-08 AFTT: 49.5 Hobbs: 73.3 W/O No: 40-05782

The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to service for discrepant items above. Details are on file at this agency under the above work order. for,

Signed: Jeffrey D. Williams

Winner Aviation Corporation Certified Repair Station W6NR985J



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 UNGSTOWN-vv/MNEL 1 No. 1444 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

N645WT <> Diamond DA40XL <> S/N: 40.836

# C/W Annual inspection in accordance with Diamond inspection guide and accomplished the following:

- C/W 1 Year Magnetic Compass Swing Calibration.
- 5. C/W 1 Year / 1000 Hour Auto Pilot System Check.

Serviced Main Aircraft Battery.

- Installed New Left Aft Nav Light Bulb, P/N: A508.
- Installed New Left Aft Nav Light Bulb, P/N: A508.
  Installed Ballast Kit I.A.W. Diamond Aircraft Drawing C41-7106-01-00. New Weight and Balance Form 9. AD 2007-26-13, MIT Propellers, IN/A per Propeller Manufacture Date.

  10. AD 2002-26-01, Fuel Injector Fuel Line Inspection, Superseded to AD 2008-14-07.

- 10. AD 2002-26-01, Fuel Injector Fuel Line Inspection, Superseded to AD 2008-14-07.

  11. C/W AD 2008-14-07, Fuel Injector Fuel Line Inspection, per SB 342E. Due Every Annual Inspection.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was accommined to be in Airworthy condition and is approved for return to service. Signed: Jeffrey D. Williams

Winner Aviation Corporation, Woods



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

#### AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

- Installed New Nose Gear Fork Bushings, P/N: BB4526DU-B (2 Each).
- 2. Repositioned Nose Wheel Pant Door Assembly.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 1-19-09 AFTT: 96.2 Hobbs: 136.1 W/O No: 40-05960 The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to service for discrepant items above. Details are on file at this agency under the above wark order.

Signed: Jeffrey D. Williams ertified Repair Station W6NR985J Winner Aviation Corporation

CARRIED FORWARD



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985)

N 645WT S/N 40.836 TOTAL 191.2 DATE 8-6-09
Tested as required by FAR 91.411, IAW 43, Appx. "E" (Para noted)  1. Static System per Para (b) To 20,000 Ft.  2. L-Airdata P/N 01/-008 82-00 S/N 47808057 L-ALT. P/N S/N  3. R-Airdata P/N S/N R-ALT. P/N S/N  4. Sby ALT. P/N 5934 PD - 3 S/N 462724
5. Line items 2,3,4 certified per Para (b) to 20,000 FT.  6. Intergrated System-per Para (c) Item No. 1, 2,1,5,6  Tested by Con GB aclo Date 8-6-09 WO. 42-03974 WINNER AVIATION W6NR985J
I certify that the ATC Transponder tests required by FAR 91.413 have been performed and found to comply with FAR 43 Appendix F  #1 make GARM Model GTX - 33 S/N 89104579  #2 make N/A Model P/A S/N N/A  Tested by Row 23000 Date 8-6-09 WO. 42-03974
WINNER AVIATION W6NR985J

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YOUNGSTOWN-WARREN REGIONAL AIRPORT · VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985)

#### AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

## C/W Annual inspection in accordance with Diamond inspection guide and accomplished the following:

- Serviced Main Aircraft Battery.
- C/W Weight Check of Hand Held Fire Extinguisher.
- C/W 1 Year Magnetic Compass Swing Calibration.
- C/W 1 Year / 1000 Hour Auto Pilot System Check.
- 5. C/W 2 Year Emergency Battery Replacement (G-1000). Installed New Battery, P/N: D60-2560-91-00, S/N: 09-128-0857.
- 6. C/W FAR 91.207 para (d) ELT Operation and Corrosion Annual Check.
- Installed New ELT Battery, P/N: MN1300 (8 Each). Batteries Expire Aug. 2011.
- 8. Installed New Exhaust Muffler Leather Strap, P/N: 05-6000.
- 9. C/W SB MSB-40-054/1, Prevent Pinching of Pitot Static Lines.
- 10. AD 2007-17-06, Nose Landing Gear Inspection, Superseded to AD 2009-10-04.
- 11. AD 2008-08-14, Precision Fuel Servo Valve, Superseded to AD 2009-02-03.
- 12. AD 2008-19-05, ECI Engine Components, N/A, No ECI Cylinders or Parts Installed.
- 13. C/W AD 2008-14-07, Fuel Injector Fuel Line Inspection, per SB 342E. Due Every 100 Hours.
- 14. C/W AD 2009-02-03, Precision Fuel Servo Valve, per SB PRS-107R4. Installed New Gasket, P/N: 2577258. Terminates Recurring AD.
- 15. C/W AD 2009-07-14, Upper Wing Skin and Spar Inspection, per SB MSB-40-060.
- 16. C/W AD 2009-10-04, Nose Landing Gear Inspection, per SB MSB40-046/3. Due Every 1 Year / 200 Hours.
- 17. All ADS checked through 2009-15.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 8-6-09 AFTT: 139.3 Hobbs: 191.2 W/O No: 40-06181 I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy condition and is approved for return to service. Signed: Jeffrey D. Williams\_\_\_\_\_\_

Winner Aviation Corporation, Winner Aviation Corporation,

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YOUNGSTOWN-WARREN REGIONAL AIRPORT · VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR9851

**AVIONICS** N645WT <> Diamond DA40XL <> S/N: 40.836

Removed T.A.S. 600 Processor 9900BX, P/N: 70-2420-(8TAS600), S/N: 0705076. Sent Out for Repair. Removed T.A.S. 600 Processor 9900BA, F/N. 70-2420-(01730-007), 6711. 07-0-0070. Sent Out for Repair.

Installed Repaired Processor same P/N, and S/N. All Work Performed I.A.W. Ryan TCAD Installation Manual Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M. and Aircraft P.O.H.

Date: 11-6-09 AFTT: 195.9 Hobbs: 261.0 W/O No: 42-04026 The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with The maintenance operations described above work order.

The maintenance operations described above work order is approved for return to service for discrepant items respect to the work preformed the aircraft and or component is approved for return to service for discrepant items. above. Details are on file at this agency under the above work order. y D. Williams
Winner Aviation Certified Repair Station W6NR985J Signed: Jeffrey D. Williams



YOUNGSTOWN-WARREN REGIONAL AIRPORT · VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]

#### **AIRFRAME** N645WT <> Diamond DA40XL <> S/N: 40.836

- 1. Installed New Nose Gear Assembly Bushing, P/N: PAF25215P11.
- 2. Installed New Nose Gear Fork Assembly, P/N: D41-3223-30-00.
- Installed New Nose Wheel Assembly, P/N: 40-77.
- Installed New Nose Tire Assembly, P/N: 505C61-8, S/N: 80127308 and Balanced as Required.
- Installed New Nose Wheel Pant Assembly, P/N: DA4-3225-91-00X01.
  Removed Propeller (MT) and Sent Out for Warranty Repair, P/N: MTV-12-B/183-59B, S/N: 070370.
- Installed Loaner Serviceable Propeller (MT), P/N: MTV-12-B/183-59B, S/N: 070205.
- Installed Overhauled Prop Spinner, P/N: B-045-1.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 11-6-09 AFTT: 195.9 Hobbs: 261.0 W/O No: 40-06268 / 40-06273 / 40-06274

The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to service for discrepant items above. Details are on file at this agency under the above work order,

Signed: Jeffrey D. Williams Winner Aviation Corporation Certified Repair Station W6NR985J



YOUNGSTOWN-WARREN REGIONAL AIRPORT · VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

#### **AIRFRAME** N645WT <> Diamond DA40XL <> S/N: 40.836

- Installed New Left Wheel Pant, P/N: DA4-3215-91-00X01.
  - Installed New Right Wheel Pant, P/N: DA4-3215-92-00X01. C/W AD 2009-10-04, Nose Landing Gear Inspection I.A.W. SB MSB40-046/3. Found New Style Nose Strut Previously Installed. Terminates Recurring AD Inspections.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 11-10-09 AFTT: 195.9 Hobbs: 261.0 W/O No: 40-06283 intenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with

to the work preformed the aircraft and or component is approved for return to service for discrepant items. Details are on file at this agency under the above work order Signed: Jeffrey D. Williams for,

Winner Aviation Cartified Repair Station W6NR985J



YOUNGSTOWN-WARREN REGIONAL AIRPORT · VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

#### AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

1. Installed New (Customer Supplied) Left Main Tire, P/N: 156E66-4, S/N: 92740174 and New (Customer Supplied) Tube, P/N: 302-246-401.

2. Installed New (Customer Supplied) Right Main Tire, P/N: 156E66-4, S/N: 92710160 and New (Customer Supplied) Tube, P/N: 302-246-401.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 1-11-10 AFTT: 208.1 Hobbs: 276.8 W/O No: 40-06344

The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to service for discrepant items above. Details are on file at this agency under the above work order for, Signed: Jeffrey D. Williams

WINNER AND CORPORATION, CRS# W6NR985J "Authorized Diamond Service Center"



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#### **AIRFRAME** N645WT <> Diamond DA40XL <> S/N: 40.836

1. Serviced Main Aircraft Battery.

2. Installed New Starter (Sky Tec), P/N: 148-24LS, S/N: F4L-390902. Removed P/N: 148-24LS, S/N: F4L-180701

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 2-18-10 AFTT: 211.2 Tach: 211.1 Hobbs: 281.5 W/O No: 40-06377

The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to service for discrepant items above. Details are on file at this agency under the above work order. Signed: Jeffrey D. Williams

WINNER AVIATION CORPORATION, CRS# W6NR985J "Authorized Diamond Service Center"



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#### AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

1. Inspected Aircraft Cockpit for Smoke. Applied Power to Aircraft, Avionics System All Found Satisfactory. Removed Glare Shield, Inspected Wiring and Components, All Found Satisfactory. Removed Access Panels Under Seats, Inspected Auto Pilot Servos and Wiring, All Found Satisfactory. Removed Access Panels Inspect Components in Tail, All Found Satisfactory. Reinstalled All Removed Items. Aircraft Found Satisfactory. Ground Ran Aircraft All Found Satisfactory. Flew Aircraft and Tested All Systems, All Found Satisfactory.

Above systems ground operational and leak checked satisfactory I.A.W Diamond DA40XL M.M.

Date: 8-27-10 Hobbs: 334.6 W/O No: 40-06570

The maintenance operations described above were inspected I.A.W. current Federal Aviation Described above were inspected II.A.W. current Federal Aviation Described above were inspected II.A.W. current Federal Aviation Described above the III.A.W. current Federal Aviation D
The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to service for discount.
above. Details are on file at this agency under the above work order.
Signed: Jeffrey D. Williams 1. 114.

WINNER AVIATION CORPORATION, CRS# W6NR985J
"Authorized Diamond Service Center"



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRSW6NR985I

for.

# AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

C/W Annual inspection in accordance with Diamond inspection guide and accomplished the following:

- 1. Serviced Main Aircraft Battery.
- 2. C/W Weight Check of Hand Held Fire Extinguisher.
- 3. C/W 1 Year Magnetic Compass Swing Calibration.
- 4. C/W 1000 Hour / 1 Year Auto Pilot System Check.
- 5. C/W 100 / 200 Hour Inspection Items.
- 6. C/W FAR 91.207 para (d) ELT Operation and Corrosion Annual Check.
- C/W Power Flow Exhaust System Instructions for Continued Airworthiness I.A.W. Report # PFS-15250-00. Due Every Annual Inspection.
- 8. Installed New Left Aft Nav Bulb, P/N: 34-0428070-64.
- 9. Installed All New Brake Linings, P/N: 066-14100 (4 Each) I.A.W. Cleveland Wheel and Brake M.M.
- 10. AD 2009-13-10, Ontic Prop Governor. N/A, Ontic Governor Not Installed.
- 11. AD 2009-26-12, ECI Engine Components. N/A, No Cylinders Replaced Since New.
- 12. C/W AD 2008-14-07, Fuel Injector Fuel Line Inspection, per SB 342E. Due Every 100 Hours.
- 13. C/W AD 2009-10-04, Nose Landing Gear Inspection, per SB MSB40-046/3. Found New Style Nose Gear Installed. Terminates Recurring Inspection of AD.
- 14. All ADS checked through 2010-17.

All work performed I.A.W. Diamond DA40XL M.M. Operational and leak checks satisfactory.

Date: 9-9-10 AFTT: 259.2 Tach: 259.2 Hobbs: 340.0 W/O No: 40-06577

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in Signed: Jeffrey D. Williams

for

WINNER AMATION CORPORATION, CRS # W6NR985J
"Authorized Diamond Service Center"



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRSW6NR985J

# AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

1. C/W AD 2010-25-01, AFM Revision. C/W AD by Installing Revision as Needed. Service Bulletin MSB 40-070 is N/A per S/N.

Date: Aug. 16, 2011 AFTT: 348.8 Tach: 348.8 W/O No: 40-06924  The maintenance operations described above were inspected I.A.W. current Federal Aviation Regulations, and with respect to the work preformed the aircraft and or component is approved for return to somice for the second control of the second cont
respect to the work preformed the aircraft and or component is approved for return to service for discrepant items above. Details are on file at this agency under the above work order.  Signed: Jeffrey D. Williams  WINNER AVIATION CORPORATION, CRS # W6NR985J
WINNER YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE: (330) 856-5000 • FAX: (330) 856-4582 • CRSW6NR985J
N 645 WT S/N: 40.836 TOTAL: 359.8 DATE: 9-1-11  Tested as required by FAR 91.411, IAW 43, Appx. "E" (Para noted)
1. Static System per Para (b) To 20,000 Ft.  2. L-Airdata P/N 1/-00882-09/N 47808057 L-ALT. P/N N/A  3. R-Airdata P/N N/A S/N N/A R-ALT. P/N S/N N/A  4. Sby ALT. P/N 5734 FD - 3 S/N 46.2724  5. Line items 2,3,4 certified per Para (b) to 20,000 FT.
Item No. 12, 15,6 Tested by Total Date 9-1-11 WO. 12-04392.  WINNER AVIATION, CRS # W6NR985J
I certify that the ATC Transponder tests required by FAR 91.413 have been performed and found to comply with FAR 43 Appendix F  #1 make GARTIN Model GTX 33 S/N 89104579  #2 make Model P/B S/N P/B  Tested by Randback Date 9-1-1/1 WO. 423-64393
WINNER AVIATION, CRS # W6NR985J



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR9851

#### **AIRFRAME** N645WT <> Diamond DA40XL <> S/N: 40.836

# C/W Annual inspection in accordance with Diamond inspection guide and accomplished the following:

Serviced Main Aircraft Battery.

C/W Weight Check of Hand Held Fire Extinguisher.

C/W 100 / 200 Hour Inspection Items.

C/W 1 Year Magnetic Compass Swing Calibration. 4.

C/W 1000 Hour / 1 Year Auto Pilot System Check. 5.

C/W 1000 Hour / 1 Year Auto Find Systement. Installed New Battery, P/N: D60-2560-91-00, S/N: 11-153-1196.

C/W 2 Year ELT Battery Replacement. Installed New ELT Batteries, P/N: MN 1300 (6 Each). 7.

8. C/W FAR 91.207 para (d) ELT Annual Inspection. Battery Expires: Sept. 2013.

C/W Power Flow Exhaust System Instructions for Continued Airworthiness I.A.W. Report # PFS-15250-00. Due Every Annual Inspection.

10. Installed New Right Wing Aft Nav Light Bulb, P/N: 34-0428070-64.

- 11. C/W AD 2008-14-07, Fuel Injector Lines Inspection per Lycoming SB 342E. Due Every 100 Hours.
- 12. AD 2011-15-10, Superior & Lycoming Fuel Servo. N/A, Fuel Servo was Never O/H, Serviced or Diaphragm Replaced Since New.

All work performed I.A.W. Diamond DA40XL M.M. Operational and leak checks satisfactory.

Date: Sept. 16, 2011 AFTT: 361.1 Tach: 361.1 Hobbs: 461.9 W/O No: 40-06946 I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy condition and is approved for return to service. Signed: Jeffrey D. Williams for. WINNER ANIMATION CORPORATION, CRS # W6NR985J **Authorized Diamond Service Center"** 



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

**AVIONICS** N645WT <> Diamond DA40XL <> S/N: 40.836

Installed Overhauled Flight Control System GSA81 Servo, P/N: 011-00878-00, S/N: 66409141. All Work Performed and Tested Satisfactory I.A.W. Diamond DA 40 M.M. and Garmin G1000 System M.M.

D	ate: June 15, 2012	Hobbs: 507.3	W/O No: 42-04	4551
he maintenance	e operations described abov	e were inspected I.A.W. curre	ent Federal Aviation R	egulations, and with
eshect to tue M	ork preformed the aircraft air	nd or component is approved	for return to service	for discrepant items
bove. Details ar	re on file at this agency under	er the above work order		

	Authorize	ed Diamo	nd Service	Center"	
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## YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

#### AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

#### C/W Annual inspection in accordance with Diamond inspection guide and accomplished the following:

- 1. Serviced Main Aircraft Battery.
- 2 C/W Weight Check and Visual Inspection of Hand Held Fire Extinguisher.
- 3 C/W 100 / 200 Hour Inspection Items.
- 4. C/W 1 Year Magnetic Compass Swing Calibration.
- 5 C/W 1000 Hour / 1 Year Auto Pilot System Check.
- 6. C/W 3000 Hour / 5 Year Rudder Cables Replacement. Installed New Rudder Cables Kit, P/N: CSKit-07, S/N: CS0704361-1000. Rigged and Adjusted Tension as Required.
- 7. CW FAR 91.207 para (d) ELT Annual Inspection. Battery Expires: Sept. 2013.
- 8. C/W Power Flow Exhaust System Instructions for Continued Airworthiness I.A.W. Report # PFS-15250-00. Due Every Annual Inspection.
- 9. Installed New Left and Right Wing Stub Seals, P/N: 1110762 (2 Each).
- 10. Installed New Alternate Air Valve Body, P/N: D41-7166-20-30.
- 11. C/W AD 2011-26-04, Fuel Injector Lines Inspection per Lycoming SB 342F. Due Every 100 Hours.
- 12. AD 2011-21-10, VCS STC Air Condition System. N/A, Air Condition STC Not Installed.
- 13. AD 2012-19-01, Lycoming Crankshaft. N/A, Engine Model and S/N Not Listed in SB MSB569A.
- 14. AD 2012-03-06C, AVSTAR Fuel Servo. N/A, Fuel Servo was Not Repaired, Overhauled or Replaced in Time Specified in SB AFS-SB6 R2.

All work performed I.A.W. Diamond DA40XL M.M. Operational and leak checks satisfactory.

Date: Oct. 15, 2012	AFTT: 431.9	Tach: 431.9	Hobbs: 549.6	W/O No: 40-07402
I certify that this aircraft ha	as been inspected in a	accordance with an A	Annual Inspection and v	was determined to be in
Airworthy condition and is	approved for return to	o service.	1	
Airworthy condition and is Signed: Jeffrey D.	Williams	2. O asless	2	tor,
	AUDITO NUMBEROS	CODDODATION	CDS # W6NR985.1	

WINNER AWATION CORPORATION, CRS # W6NR985J
"Authorized Diamond Service Center"



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

# AIRFRAME N645WT <> Diamond DA40XL <> S/N: 40.836

1. Installed Rebuilt Starter, P/N: 149-24LS, S/N: F4L-060504. All Work Performed I.A.W. Sky Tec Installation Instructions and Diamond DA40XL M.M.

		Tach: 476.4	AFTT: 476.4	W/O No. 40-07 020
Date: April 15, 2013	Hobbs: 603.6		current Federal Avia	tion Regulations, and with
Date: April 15, 2013 The maintenance operations respect to the work preforme	described above were	e inspected i.A.vv.	roved for return to se	ervice for discrepant items
above. Details are on file at the	nis agency under the	above work order.	-/)	for,
above. Details are on me	"" ////	11/1/1/1/10		

Signed: Jeffrey D. Williams

WINNER AND CORPORATION, CRS # W6NR985J

"Authorized Diamond Service Center"

WINNER	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J
645WT SN	: 40, 836 Holds 661.0 DATE: 10-15-13
2. L-Airdata P/N	S/N 452724
4. Sby ALT. P/N  Line items 2.3.4 certified per P	Para (b) to 30,000 FT
Item No.	WINNER AVIATION, CRS # WOING955
I certify that the ATC Transpo	ander tests required by FAR 91.413 have comply with FAR 43 Appendix F  Model 67X - 3.3  S/N 89104579
#1 make 6 A R M P	Model 67X-3.3 S/N 87104579  Model 10-15-13 WO. 42-04838
	Date 10-13 W. 17-13-14
Tested by Soine	WINNER AVIATION, CRS # W6NR985J



YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR9851

**AIRFRAME** 

N645WT <> Diamond DA40XL <> S/N: 40.836

## C/W Annual inspection in accordance with Diamond inspection guide and accomplished the following:

Service Main Aircraft Battery.

2. CM Weight Check and Visual Inspection of Hand Held Fire Extinguisher.

C/W 100 / 200 Hour Inspection Items.

- 4. C/W 1000 Hour / 1 Year Auto Pilot System Check.
- 5. C/W 1000 Hour / 2 Year Altimeter Indicator for Correct Indication with FAR 91-411 and -413.
- 6. CW 1000 Hour /2 Year Vertical Speed Indicator for Correct Indication with FAR 91-411 and -413.
- 7. C/W 1000 Hour / 2 Year Airspeed Indicator for Correct Indication with FAR 91-411 and -413.
- 8. C/W 2 Year Emergency Battery Replacement. Installed New Battery Pack, P/N D60-2560-91-00, S/N: 13-227-8. Battery Expires: Oct. 2015.
- 9. C/W 2 Year ELT Batteries Replacement. Installed New ELT Batteries, P/N: MN1300 (8 Each).

10. C/W FAR 91.207 para (d) ELT Annual Inspection.

- 11. C/W Power Flow Exhaust System Instructions for Continued Airworthiness I.A.W. Report # PFS-15250-00. Due Every Annual Inspection.
- 12. C/W AD 2011-26-04, Fuel Injector Lines Inspection per Lycoming SB 342F. Due Every 100 Hours.

All work performed I.A.W. Diamond DA40XL M.M. Operational and leak checks satisfactory.

I certify that this aircraft has been inspected in a Airworthy condition and is approved for return to Signed: Jeffrey D. William	Tach: 523.8	Hobbs: 661.0	W/O No: 40-07862
Airworthy condition and is approved for return to Signed: Jeffrey D. Williams	service	Annual Inspection and	was determined to be in
WINNER AVALON	COPPORATION	in	for,

CORPORATION, CRS # W6NR985J "Authorized Diamond Service Center"



Registration #: N645WT

Total AC Time: 632.1

Total AC Cycles:

Manufacturer: Diamond Aircraft

Part/Model number: DA40XL Work Order No: PST5410

Aircraft Serial Number: 40.836

Date: 11/10/2014

Squawk	
1.1	CW ANNUAL INSPECTION USING INSPECTION FORM OUTLINED IN DA40-180 MM, CH 5 AS A GUIDELINE.
1.2	CW 100 HOUR INSPECTION ITEMS USING INSPECTION FORM OUTLINED IN DA40-180 MM, CH 5 AS A GUIDELINE.
1.3	CW 200 HOUR INSPECTION ITEMS USING INSPECTION FORM OUTLINED IN DA40-180 MM, CH 5 AS A GUIDELINE.
1.4	CW MAIN AIRCRAFT BATTERY REMOVAL, SERVICE AND REINSTALLATION
1.5	CWI.A.R. 91.207, PARA (D) OPERATIONAL AND CORROSION CHECK
1.6	CW ONE FEAR MAGNETIC COMPASS CALIBRATION
1.7	CW WEIGHT CHECK OF HAND-HELD FIRE EXTINGUISHED WITH SATISFA
1.8	TEM AUTOPILOT SYSTEM CHECK
1.9	CW POWER FLOW EXHAUST SYSTEM ICA LAW INSTRUCTIONS FOR
1.10	THOSE COLON OF FILE INTECTOR I DIEC DED COLO
1.11	REMOVED #3 EXHAUST AND SENT OUT FOR REPAIR, REINSTALLED SERVICEABLE EXHAUST POSSIBLE CRACK LH WING I/B TRAILING FROM BOOK AND SERVICEABLE EXHAUST
1.12	POSSIBLE CRACK LH WING I/B TRAILING FROM POSSIBLE CRACK LH WING I/B TRAILING F
	POSSIBLE CRACK LH WING I/B TRAILING EDGE - FOUND TO BE COSMETIC PAINT, PREPPED, FILLED, RESECURED LH AND RH WING ANTI SEID WALK PROPERTY OF PAINT IAW AC43.13-1B/2B.
1.13	RESECURED LH AND RH WING ANTI-SKID WALK AREA LEADING EDGES AS NEEDED  AD2014-13-08 IS DUE AT OR REFORE 2000 Market
1.14	AD2014-13-08 IS DUE AT OR BEFORE 2000 HOURS OF STATES
	AD2014-13-08 IS DUE AT OR BEFORE 2000 HOURS OR 02-27-24, THIS SUPERCEDES AD2013-24-14.

All Work Performed I.A.W. Diamond Aircraft DA40XL Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST5410.

Signature

North Coast Air Care Inc. 1600 Triplett Blvd Akron, Ohio 44306 (330) 734 0282

02-17-2015 686.0 Hobbs (airframe) N645WT

Complied with the following this date; Auto pilot system is getting a uncommand auto pilot disconnect. Trouble shot system and found pitch servo to be inop. Removed and replaced pitch servo with overhauled unit p/n 011-00878-00 s/n 66409334 as required. Updated G1000 system software with current version 0321.22 per SI-40-113. Ground checked system for operation; no defects noted at this time.END----

Ken Gohlke AP 2758310 For North Coast Air Care Inc.

1.9	NSTALLED NEW SEAT RESTRAINT ELECTRONIC MODULE P/N 508358-421 IAW AMSAFE ICA OVERHAUL MANUAL.  ADJUSTED ELEVATOR TRIM SERVO CIVILINIONE MODULE P/N 508358-421 IAW AMSAFE ICA
	INSTALLED NEW SEAT RESTRAINT ELECTRONIC MODULE P/N 508358-421 IAW AMSAFE ICA INSTALLED FOUR NEW BRAKE LININGS P/N 066-14100 IAW CLEVELAND WHEEL AND BRAKE ICA OVERHAUL MANUAL.  ADJUSTED ELEVATOR TRIM SERVO CHAIN TENSION AS NEEDED IAW DA40-180 ND AS INSTALLED EIGHT NEW ELT BATTERIES DAME.
1.10	INSTALLED FOUR NEW BRAKE LININGS PALOGE
	OVERHAUL MANUAL.  ADJUSTED ELEVATOR TRIM SERVO CHAIN TENSION AS NEEDED IAW DA40-180 MM, CH 25 - NO DEFECTS POOR AUTOPILOT SYSTEM CHECK IAW DA40.
1.11	ADJUSTED ELEVATOR TRIM SERVO CHARLES
2.12	CW F.A.R. 91.207, PARA (D) ELT ANNIJAL CUE
2.13	INSTALLED EIGHT NEW ELT BATTERIES
	BATTERY REPLACEMENT DUE DE COLLEGE P/N MN1300 ALL WILLIAM CH 25 NO MM CITA
2.14	ADJUSTED ELEVATOR TRIM SERVO CHAIN TENSION AS NEEDED IAW DA40-180 MM, CH 25 - NO DEFECTS FOUND CW F.A.R. 91.207, PARA (D) ELT ANNUAL CHECK IAW DA40-180 MM, CH 25 - NO DEFECTS FOUND CW AUTOPILOT SYSTEM CHECK IAW DA40-180 MM, CH 25.  CW EMERGENCY BATTERY REPLACEMENT INSTALLS  DA40-180 MM, CH 24.
2.15	CW EMERGENCY BATTERY PRODUCTION AND CHES.
	DA40-180 MM, CH 24
AHXX	NEW BATTERY DAY
- All W	CW AUTOPILOT SYSTEM CHECK IAW DA40-180 MM, CH 5 & 22.  CW EMERGENCY BATTERY REPLACEMENT INSTALLED NEW BATTERY P/N D41-2560-93-00 IAW  Cork Performed I.A.W. Diamond Aircraft DA40XL Appropriate Data.  In the service of these repairs are on file at the repair station under Work Order Number PST6060
_ These is	tems identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are on file at the repair station under Work Order Number PST6060.
approve	ed for return to service. Pertinent details a coordance with
	details of these repairs are on file at the
	at the repair station under Work of the
_/	Work Order Number period are
<ul><li>Signat</li></ul>	ure 1310060.
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AT WIN	NER
AVIA	VOI II I
	PHONE (330) 856-5000
	PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J
N 6	System per Para (b) To 20,000 Ft. (530) 856-4582 • CRS W6NR985J
Tested a	S required by EAD OL 444
1. Static S	System per Para (b) To 20,000 Ft. (Para noted)
2. L-Aird	ata P/N 0/1-00882-005/N 4780 8057 L-ALT. P/N S/N 5/N 5/N 5/N 5/N 5/N 5/N 5/N 5/N 5/N 5
3. R-Aird	ata PNI 00882-00SN 4780 8057 1 ALT
4. Sby AI	LT. P/N 5934PD-3 S/N 4527244 R-ALT. P/N N/A S/N N/A
5. Line ite	ems 23 A averign N/A
6. Intergra	ems 2,3,4 certified per Para (b) to 20,000 FT.  R-ALT. P/N N/A S/N N/A  S/N N/A  S/N N/A
Item No	winner Aviation, CRS # W6NR9851
	Tested by Jaun Moore Date 12
	WINNER AVIATION, CRS # W6NR985J
1 CCILIIV	Inal the ATC T
been per	formed and found to
"I make	Appendix F
#2 make	ALLA MODEL G TX 33
Tested h	Wodel A//
	Date 12-01-2015
	WINNER AVIATION, CRS # W6NR985J
	AVIATION, CRS # W6NR985J
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	North C
-	Total Coast Air Care Inc. 1600 Triplet Di
	North Coast Air Care Inc. 1600 Triplett Blvd Akron, Ohio 44306 (330) 734 0282
May 10 a	(550) 154 0282
7 19, 20	016 1200 HORRS (-: c
SALACE	Complied with the following this date; Battery inop. Replaced battery with new P/N RG24-11M
40790	omplied with the following this date; Battery inop. Replaced battery with new P/N RG24-11M
Dh.	Julied. END Lattery Inop. Replaced battery with new P/N RG24-11M
L L W.	Sparth AP3722212
or North	Co. AP3722212
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	Coast Air Care Inc.

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1	Registration #: N645WT	Total AC Time: 830.6 Total AC Cycles:
	Anufacturer: Diamond Aircraft	
Part/M	lodel number: DA40XL	Aircraft Serial Number: 40.836
W	ork Order No: PST6725	Date: 02/07/2017
Squawk 1.1	CW ANNUAL INSPECTION	ON USING INSPECTION FORM OUTLINED IN DA40-180 MM, CH 5 AS A GUIDELINE, CW
1.1	COMPRESSION CHECK	WITH SATISFACTORY RESULTS AS FOLLOWS: #1 - 76/80 #2 - 75/80 #3 - 77/80 #4 - 74/80
	AD'S CHECKED THRU 2	017-02.
1.2	CW 200 HOUR INSPECT	ION ITEMS USING DA40-180 INSPECTION FORM OUTLINED IN CHAPTER 5 AS A GUIDELINE
1.3		RAFT BATTERY, SERVICED AND REINSTALLED, ALL WORK ACCOMPLISHED IAW DA40-180
	MM, CH 12.	TO THE OPEN ATTOMAL AND CORDOLON DISPLACTION NO DEFECTS FORDING AT THE TRACE
1.4	CW F.A.R. 91.207, PARA	(D), ELT OPERATIONAL AND CORROSION INSPECTION, NO DEFECTS FOUND AT THIS TIME
1.5		F HAND-HELD FIRE EXTINGUISHER IAW BOTTLE INSTRUCTIONS, BOTTLE SERVICEABLE A
	THIS TIME.	TA CANDON LAW DAMO 190 MM CH 22 NO DECECTS NOTED
1.6	CW AUTOPILOT SYSTE	M CHECK IAW DA40-180 MM, CH 22. NO DEFECTS NOTED.
1.7	CW POWER FLOW SYS	TEMS ICA PER INSTRUCTIONS, ALL FOUND TO BE IN SERVICEABLE CONDITION AT THIS
	TIME.	RNOR AND SENT OUT FOR OVERHAUL, INSTALLED OVERHAULED PROP GOVERNOR P/N
1.8	REMOVED PROP GOVE	ILL WORK ACCOMPLISHED IAW DA40-180 MM, CH 61.
	P-860-23 S/N 0/G380-E, A	INJECTION LINE INSPECTION, PER SB342G INSTRUCTIONS, NO DEFECTS NOTED AT THIS
1.9		, INJECTION LINE INDI ECTION, LEXISE US IN THE CHIEF TO THE COLOR OF T
	TIME.	CO DETECTOR AND INSTALLED NEW DETECTOR P/N 452-201-010 S/N 96891, ALL WORK
1.10	ACCOMPLICATED IVA L	DA40-180 MM, CH 31.
	ACCOMPLISHED IAW E	W CHADWICK-HELMUTH VIBREX RACK AND BALANCE SYSTEM INSTRUCTIONS, BALANCE
1.11	TO .08 IPS.	W CILLS
	These items identified above w for return to service. Pertinent	details of these repairs are on the at the repair station under work order Number 1919/25.
	These items identified above w for return to service. Pertinent	vere repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are appropriate of these repairs are on file at the repair station under Work Order Number PST6725.
	These items identified above w for return to service. Pertinent	vere repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are appropriate of these repairs are on file at the repair station under Work Order Number PST6725.
	These items identified above we for return to service. Pertinent	vere repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are appropriate of these repairs are on file at the repair station under Work Order Number PST6725.
	These items identified above we for return to service. Pertinent	vere repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are appr details of these repairs are on file at the repair station under Work Order Number PST6725.
W Y	These items identified above we for return to service. Pertinent Signature For Winner Aviation Rep.  WINNER	Provided and/or inspected in accordance with current Federal Aviation Regulations and the repairs are apprehensional of these repairs are on file at the repair station under Work Order Number PST6725.  air Station #W6NR985J  YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985
W Y	These items identified above we for return to service. Pertinent Signature For Winner Aviation Rep.  WINNER	Provided and/or inspected in accordance with current Federal Aviation Regulations and the repairs are apprehensional of these repairs are on file at the repair station under Work Order Number PST6725.  air Station #W6NR985J  YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985
N G	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Rep.  WINNER  AVIATION  S/N: 4	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  DATE: 7MARIS
N G	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  AVIATION  S/N: 4  Ed as required by FAR 91.41	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B36  TOTAL: 858.7  DATE: 744818
N G	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  AVIATION  S/N: 4  Ed as required by FAR 91.41	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B36  TOTAL: 858.7  DATE: 7MARIX  1, IAW 43, Appx. "E" (Para noted)
N G Teste 1. Sta 2. L	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Rep.  WINNER AVIATION  Ed as required by FAR 91.41  atic System per Para (b) To 20  Airdata P/N 01-00802-0	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  DATE: 7MARIS  1, IAW 43, Appx. "E" (Para noted)
N G	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  VINNER  VINNER  VIATION  S/N: 4  das required by FAR 91.41  tic System per Para (b) To 20  Airdata P/N 011-00802-0	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B.36  TOTAL: 858. 7  DATE: 7MARIS  1, IAW 43, Appx. "E" (Para noted)  0,000 Ft.  S/N 47808057 L-ALT. P/N 44AT. S/N 14A  R-ALT. P/N 41A  R-ALT. P/N 41A  R-ALT. P/N 41A  S/N 14A  S/N 14A  S/N 14A  R-ALT. P/N 14A  S/N 14A  S
N <u>G</u> Teste  1. Sta  2. L  3. R-	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  VINNER  VIATION  Add as required by FAR 91.41  tic System per Para (b) To 20  Airdata P/N 011-00802-0  Airdata P/N 79.34P0-3	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B.36  TOTAL: BSB. 7  DATE: 7MARIB  1, IAW 43, Appx. "E" (Para noted)  0,000 Ft.  0S/N 47808057 L-ALT. P/N 14 S/N 14 S/
N G Teste 1. Sta 2. L 3. R- 4. Sb 5. Li	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  VINNER  VIATION  Add as required by FAR 91.41  tic System per Para (b) To 20  Airdata P/N 011-00802-0  Airdata P/N 79.34P0-3	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B.36  TOTAL: BSB. 7  DATE: 7MARIB  1, IAW 43, Appx. "E" (Para noted)  0,000 Ft.  0S/N 47808057 L-ALT. P/N 14 S/N 14 S/
N G Teste 1. Sta 2. L 3. R- 4. Sb 5. Li 6. In	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  VINNER  VIATION  Add as required by FAR 91.41  tic System per Para (b) To 20  Airdata P/N 011-00802-0  Airdata P/N 79.34P0-3	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B.36  TOTAL: BSB. 7  DATE: 7MARIB  1, IAW 43, Appx. "E" (Para noted)  2, 000 Ft.  S/N 47808057 L-ALT. P/N 44878 S/N 47848
N G Teste 1. Sta 2. L 3. R- 4. Sb 5. Li 6. In	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Report  VINNER  VINNER  VIATION  Add as required by FAR 91.41  tic System per Para (b) To 20  Airdata P/N 011-00802-0  Airdata P/N 79.34P0-3	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B.36  TOTAL: BSB. 7  DATE: 7MARIB  1, IAW 43, Appx. "E" (Para noted)  0,000 Ft.  0S/N 47808057 L-ALT. P/N 14 S/N 14 S/
N G Teste 1. Sta 2. L 3. R- 4. Sb 5. Li 6. In Item	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Rep.  WINNER  Ed as required by FAR 91.41  titic System per Para (b) To 20  Airdata P/N 011-00802-0  Airdata P/N 5934P0-3  re items 2,3,4 certified per Para tergrated System-per Para (c)  No. 1,2,4 Testeo	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.836  TOTAL: 858. 7  DATE: 7MARINE  1, IAW 43, Appx. "E" (Para noted)  2, ,000 Ft.  3 S/N 47808057 LALT. P/N PLA  S/N PLA  R-ALT. P/N PLA  S/N PLA  BY  (b) to 20, ,000 FT.  d by C: the 48184 W6NR985J
N G Testa 1. Sta 2. L 3. R- 4. Sb 5. Li 6. In Item	These items identified above we for return to service. Pertinent  Signature For Winner Aviation Rep.  VINNER  VINNER  VIATION  Add as required by FAR 91.41  Atic System per Para (b) To 20  Airdata P/N 011-00802-0  Airdata P/N 5934P0-3  The items 2,3,4 certified per Para lergrated System-per Para (c)  No. 1,2,4  Testect  Tester  Test	YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985]  O.B.36  TOTAL: BSB. 7  DATE: 7MARIB  1, IAW 43, Appx. "E" (Para noted)  2, 000 Ft.  S/N 47808057 L-ALT. P/N 44878 S/N 47848

Model GTX33

Model

N14 PST7300

S/N\_

WO.

WINNER AVIATION, CRS # W6NR985J

#1 make GARNIN

#2 make NIA
Tested by C. HARRY

**Total AC Cycles:** 



Registration #: N645WT Manufacturer: Diamond Aircraft

Part/Model number: DA40XL

Total AC Time: 858.7

Aircraft Serial Number: 40.836

Date: 03/14/2018

Ma	ber: DA40XL
Part/Mod Work	order No: PST7300  Order No: PST7300  ORDER OUTLINED IN DA40-180 MM, CH 5 AS A GUIDELINE. AD'S CHECKED THRU
Squawk	ANNUAL INSPECTION USING FORM OF THE USE ANNUAL INSPECTION FORM, OUTLINED IN CH. 13.
1.1	CW 200 HOUR INSPECTION ITEMS CON AND REINSTALLED, IN THE PARTIERY, SERVICED AND REINSTALLED, IN THE PARTIERY, SERVICED AND REINSTALLED, IN THE PARTIERY SERVICED AND REINSTALLED AND REI
1.2	REMOVED AIRCRAFT BATTELT ANNUAL CHECK IAW DA40-100 MM. CH 34-22.
1.3	CIVIE A R. 91.207, PARA (D) ELI 741
1.4	CW 200 HOUR II.  REMOVED AIRCRAFT BATTERY, SERVICED
1.5	CW INTO
1.6	CH 25. MARCH 2020 CHECKED GOOD FALILTS FOUND, OPERATIONAL CHECKED GOOD
1.7	- DICTALLED NEW TIRE - COMPLICATIONS
1.8	TICEACTORY WEIGHT
1.9	CW ANNUAL EXHAUST STOTED.  CW ANNUAL EXHAUST STOTED.  NOTED.
1.10	REMOVED EMERGENCY BATTERTY THE REMOVED EMERGENCY BATTERTY BA
1.11	CW AD2013-19-07, TOES IN G1000/DA40 SYSTEM MM TO MATCH RESULT ON ALL CHECKED SATISFACTORY.
1.12	CW AD2015-19-07, FUEL INJECTION OF THE CONTROL OF T
1.13	REPLACED RH POSITION BULB WITH A Property of the Property of t

All Work Performed I.A.W. Diamond Aircraft DA40XL Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are appropriately approximately approx for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST7300.



Signature

For Winner Aviation Repair Station #W6NR985J



DRA

Repair Station #: W6NR985J

June 07, 2019

NII

Registration #: N645WT Total AC Time: 885.8 **Total AC Cycles:** Manufacturer: Diamond Aircraft Part/Model number: DA40XL Aircraft Serial Number: 40.836 Work Order No: PST7811 Date: 06/07/2019 Squawk CW ANNUAL INSPECTION USING INSPECTION FORM OUTLINED IN DIAMOND DA40-180 MM, CH 5 AS A GUIDELINE. CW COMPRESSION CHECKS WITH SATISFACTORY RESULTS AS FOLLOWS #1 - 75/80 #2 - 76/80 #3 - 75/80 #4 - 74/80. AD'S CHECKED THRU 2019-11 COMPLIED WITH 100 HOUR INSPECTION ITEMS USING INSPECTION FORM OUTLINED IN DIAMOND DA40-180 MM, 1.2 CH 5 AS A GUIDELINE COMPLIED WITH 200 HOUR INSPECTION ITEMS USING INSPECTION FORM OUTLINED IN DIAMOND DA40-180 MM, 1.3 CH 5 AS A GUIDELINE SERVICED AND CHARGED MAIN AIRCRAFT BATTERY AS REQUIRED IAW DA40-180 MM, CH 12 AND 24. COMPLIED WITH F.A.R. 91.207, PARA (D) ELT OPERATIONAL AND CORROSION INSPECTION WITH SATISFACTORY 1.5 RESULTS IAW DIAMOND DA40-180 MM. ELT BATTERY DUE DATE - MARCH 2027 COMPLIED WITH WEIGHT CHECK OF HAND-HELD FIRE EXTINGUISHER WITH SATISFACTORY WEIGHT OF 2.4 LBS, 1.6 ALL WORK ACCOMPLISHED IAW MFG INSTRUCTIONS COMPLIED WITH AUTOPILOT SYSTEM CHECK IAW DA40-180 MM, CH 22. 1.7 REMOVED ELECTRICAL FUEL PUMP AND SENT OUT FOR OVERHAUL, INSTALLED NEW PUMP P/N 5100-00-9 S/N 1.8 211679 IAW DA40-180 MM, CH 28 COMPLIED WITH ICA POWER FLOW EXHAUST SYSTEM INSPECTION IAW POWER FLOW ICA FOR KIT PFS-15102, NO 19 **FAULTS FOUND** 1.10 REMOVED BROKEN/BURNT BULB FROM LEFT WING TIP AFT POSITION LIGHT AND INSTALLED NEW BULB P/N 34-0428070-64 1.11 REMOVED BROKEN EGT PROBE FROM #1 CYLINDER AND INSTALLED A NEW PROBE P/N A002BG-WIP IAW DA40-180 MM. CH 77 REMOVED FUEL PUMP SWITCH AND INSTALLED NEW SWITCH P/N K I ACAAAAAA IAW DIAMOND DA40-180 MM, 1.12 All Work Performed I.A.W. Diamond Aircraft DA40XL Appropriate Data These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST7811.



Signature

For Winner Aviation Repair Station #W6NR985J

#### MAINTENANCE ENTRY 17 January 2020 DIAMOND AIRCRAFT IND INC, DA 40, N645WT, S/N 40.836

ITEMS REMOVED: Garmin GTX33 Transponder P/N 011-00779-10, EDO DM GPS Antenna P/N C63-1/A.

ITEMS INSTALLED: Garmin GTX345 Transponder P/N 011-03302-00, Comant COM GPS WAAS Antenna P/N CI-2580-200.

REPAIR: The PFD Direct To button is intermittent. Removed GDU1040 Display unit p/n 011-00972-03 s/n 88904516 from aircraft and sent to Garmin for repair. Received overhauled exchange replacement unit p/n 011-00972-03 s/n 88902403. See Garmin 8130-3 # SO15030223. Reinstalled display. Confirmed software levels and configuration settings. System ground checks good.

MAJOR ALTERATION: A Garmin GTX345R transponder was installed in the same location as the removed GTX33 Transponder and interfaced to MAJOR ALTERATION: A Garmin GTX345R transponder was installed in the same location as the removed GTX33 Transponder and interfaced the existing G1000 and Audio Panel. The existing transponder circuit breaker was removed. The newly installed GTX345R was connected to the avionics buss using a new 3 amp push pull type re-settable circuit breaker labeled Xpdr installed in the same location. Installed fuse holder next to avionics buss using a new 3 amp push pull type re-settable circuit breaker labeled Xpdr installed in the same location. Installed fuse holder next to avionics buss using a new 3 amp push pull type re-settable circuit breaker labeled Xpdr installed in the same location. Installed and through aircraft harness for GPS keep alive. A new Comant CI-2580-200 COM/GPS antenna battery with 3 amp fuse, ran wire into behind panel and through aircraft harness for GPS keep alive. A new Rofl42 GPS coax cable was installed in the same location as the removed COM GPS antenna using the existing Com antenna coax. A new Rofl42 GPS coax cable was installed in the same location as the removed COM GPS antenna using the existing Com antenna coax. A new Rofl42 GPS coax cable was installed under the guidelines and in reference to fabricated and installed connecting the GTX345R to the new antenna. The Garmin GTX345R was installed under the guidelines and in reference to AC43.13-2B Chapter 3. The installed ADS-B OUT system was shown to meet the equipment was installed under the guidelines and in reference to AC43.13-2B Chapter 3. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227.

The newly installed transponder was evaluated and tested using IFR ATC6000 equipment and found to be within the parameters of the IM

performance requirements of 14 CFR section 91.227.

The newly installed transponder was evaluated and tested using IFR ATC6000 equipment and found to be within the parameters of the IM

Operation/Performance Ground Check. Satisfactorily performed tests and inspections as required by FAR 91.413, Part 43 Appendix F and Altitude

Operation/Performance Ground Check. Satisfactorily performed ADS-B Checks.

Reporting Correlation Test per FAR Part 43 Appendix E (c). Satisfactorily performed ADS-B Checks.

Additionally Referenced AC43.13-1B Chapter 11 Sect. 1-3; Chapter 12 Sect. 1,2,3,12 and AC43.13-2B Chapter 11 for the work described above.

See FAA Form 337 dated 17 January 2020.

The work described above has been inspected and found airworthy for return to service.

The work described above has been inspected and found airworthy for return to service. Weight and balance/supplemental equipment list updated.

Weight and balance/supplemental equipment Work Order #011779.

Signed for Carpenter Avionics, Inc. Repair Station RH4R492M

Page 1 of 1

WINTON	PHONE (33	30) 856-5000 • F	AX: (330) SEPORT	T • V/ID.
		30) 856-5000 • F	(330) 856-458	OF VIENNA, OH 4.  CRS W6NR9
sted as required by FAR 91.41	0,836 TO	OTAL: 12/ =	>	V6NR9
245 WI - FAR OLD	1 11111111	1AL	DATE: O	7.5
sted as required by FAR 91.41 Static System per Para (b) To 20 Static System pN 011-00562-00	1, IAW 43, Appx. "E"	'(Para noted)		JUNE JOSO
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WINNER				June 08, 2020
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Registration #: N645WT				
Manufacturer: Diamond Aircraft Part/Model number: DA40XL		Total AC Time: 919.4	Total AC Cyc	
Work Order No: PST8228	Airc	raft Serial Number: 40.836	Total AC Cyc	les:
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COMPLIED WITH REPLACE	OWER FLOW EXHAUST SYST MENT OF EMERGENCY BAT 248. -07 PER LYCOMPIG SPANS	TEM IAW ICA INSTRUCTION	ONIC	
D41-2560-9300 S/N 19-205-00	VIENT OF EMERGENCY BAT	TERY IAW DA40-180 MM	CH 24 NEW DAG	
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DIAMOND DA40 SERVES AND	ND TESTED, STATIC LEAV	TION INTO ADC WAS NO	T PROPERLY TIGHTEN	ED
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All Work Performed I.A.W. I These items identified above were repa for return to service. Performent	ired and/or inspected.	ppropriate Data.		
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	at the re	yall station under Work Order	Number PST8228.	
Signature				
For Winner Aviation Repair Stati				
Repair Stati	on #W6NR985I	Maria Property		NO THE PARTY OF TH
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ENCINEEDING DECODO NOVEMBER 14, 2020 HOBBS: 1366 (AF) NG45WT Complied with THE FOLLOWING. BATTERY INOP- REPLACED P/N: 11-04951 CONCORDE SEALED BATTERY RG24-15M SERIAL # 41102307 : 20-19168 RICHARD E. MAY NNSK - #3295405 November 18, 2020 HOOBS - 1366 N645WT MAID WHEEL KYSY TO REPLACE TUBE PIN G2-528 ALL WORKED ACCOMPLISHED IAW DA-40-180 AMM, CH. 32. # 3295405 Repair Station #: W6NR985J July 20, 2021 Registration #: N645WT Manufacturer: Diamond Aircraft Total AC Time: 929.7 Total AC Cycles: Part/Model number: DA40XL Work Order No: PST8685 Aircraft Serial Number: 40.836 Date: 07/20/2021 Squawk 1.1 COMPLIED WITH ANNUAL INSPECTION USING INSPECTION FORM OUTLINED IN DA40-180 MM, CH 5, AS A REMOVED MAIN AIRCRAFT BATTERY, SERVICED AS REQUIRED IAW DA40-180 MM, CH 12 AND 24. 1.2 COMPLIED WITH F.A.R. 91.207, PARA (D) OPERATIONAL AND CORROSION CHECK IAW DA40-180 MM, CH 25, 1.3 COMPLIED WITH HAND-HELD FIRE EXTINGUISHER WEIGH CHECK IAW BOTTLE INSTRUCTIONS BOTTLE DATE -1.4 1.5 COMPLIED WITH AUTOPILOT SYSTEM CHECK COMPLIED WITH ICA POWER FLOW EXHAUST SYSTEM INSPECTION IAW POWER FLOW INSTALLATION MANUAL 1.6 PFS-15250-00, REV E. 1.7 COMPLIED WITH AD93-05-06 IGNITION SWITCH INSP PER SB 92-01-ACS, NO DEFECTS FOUND AT THIS TIME. 1.8 COMPLIED WITH AD2015-19-07, INSPECT FUEL INJECTOR LINES PER LYCOMING SB342G INSTRUCTIONS, NO **DEFECTS FOUND AT THIS TIME** 1.9 REMOVED EXISTING MUFFLER INSERT AND INSTALLED NEW WRAPPED MUFFLER INSERT P/N 8016 IAW DA40-XL COMPLIED WITH RSB 40-083 IAW RSB INSTRUCTIONS AND DA40-XL MM 52-10. 1.10 All Work Performed I.A.W. Diamond Aircraft DA40XL Appropriate Data. These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST8685. For Winner Aviation Repair Station #W6NR985J

D	MFG: Diamond Aircraft         Steiner Aviation International         Date: 12-3-2021           Model: DA 40         WO #: 14011           A/C S/N: 40.836         CRS V4NR896Y           A/C N #: N645WT         CIA 63 #2
BR(FO	A/C N#: N645WT  GIA 63 #2  Removed failed #2 GIA 63 P/N-011-00781-01, S/N-48106476 and sent to Garmin for repair.  Installed repaired #2 GIA 63 P/N, S/N-SAME.  Updated G1000 system software and options.  Reconfigured GTX-345 Transponder as req'd.  Ramp tested G1000 system normal in all modes.
	Maintenance Release  The aircraft or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order Number  Date: 12-3-2021 Time: 1380.9
	Steiner Aviation International, Inc V4NR896Y