N223DC

FAA Form 337’s
ACA’s
And STC’s
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

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

1. Aircraft
   Nationality and Registration Mark
   USA
   N223DC
   Serial No.
   C0452
   Make
   DIAMOND AIRCRAFT IND
   Model
   DA20-C1
   Series

2. Owner
   Name (As shown on registration certificate)
   Cursino, Wilson Soethe
   Address (As shown on registration certificate)
   64 Lake Ave
   City
   Bristol
   State
   CT
   Zip
   06010
   Country
   USA

3. For FAA Use Only

4. Type
   Repair
   Alteration
   Unit
   AIRFRAME

5. Unit Identification
   Unit
   Make
   (As described in Item 1 above)
   Model
   Continental
   IO-240-B
   Serial No.
   650317

6. Conformity Statement
   A. Agency’s Name and Address
   Peter Meyers
   119 Thunderbird Drive
   Naugatuck
   CT
   Zip
   06770
   Country
   USA
   B. Kind of Agency
   X U. S. Certificated Mechanic
   Manufacturer
   Foreign Certificated Mechanic
   Manufacturer
   C. Certificate No.
   Certified Repair Station
   22026210
   Certified Maintenance Organization
   D. I certify that the repair and/or alteration made to the unit(s) identified in Item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Signature/Date of Authorized Individual
February 22, 2017

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
   X Approved
   Rejected

   BY
   FAA FIt Standards Inspector
   Manufacturer

   FAA Designee
   Maintenance Organization
   Repair Station
   Inspection Authorization
   Other (Specify)

   Certificate or Designation No.
   3492553
   Signature/Date of Authorized Individual
   February 22, 2017
   Kyle S Bork
8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

USA  N223DC  02/22/2017

Nationality and Registration Mark  Date

Installed Tanis Aircraft Products Engine Preheat Kit p/n TSP4CYL-2925-115 IAW Engine Preheat Kit drawing # 02925-115 Revision D dated 1/10/2017 and FAA STC# SE03232CH. Engine is listed on the AML for this STC.

System was installed using Installation Instructions TNP2925 Revision D dated 9/10/2014 and ops checked good.

Instructions for Continued Airworthiness:

Follow the instructions contained in Document # TICA2925 Rev C dated 9/10/2014 or later accepted revision. A copy of this document has been provided to the aircraft owner.

END

□ Additional Sheets Are Attached
United States of America
Department of Transportation – Federal Aviation Administration

Supplemental Type Certificate

Number SE03232CH

This certificate issued to
Tanis Aircraft Products
2951 100th Court NE Suite 150
Blaine, MN 55449-5126

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 33 of the * Regulations.

Original Product Type Certificate Number: *See attached FAA Approved Model List (AML)
Made: *No. SE03232CH for list of approved engine models and
Model: *applicable airworthiness regulations

Description of Type Design Change:
Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-2925-115 for 115 volt application in accordance with
Engine Preheat Kit drawing # 02925-115, Revision A, dated April 25, 2013, or later FAA approved revisions or
Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-2925-230 for 230 volt application in accordance with
Engine Preheat Kit drawing # 02925-230, Revision A, dated April 25, 2013, or later FAA approved revisions.
Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-3001-115 for 115 volt application in accordance with
Engine Preheat Kit drawing # 03001-115, Revision C, dated April 10, 2014, or later FAA approved revisions or
Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-3001-230 for 230 volt application in accordance with
Engine Preheat Kit drawing # 03001-230, Revision C, dated April 10, 2014, or later FAA approved revisions.

Limitations and Conditions:
1. Compatibility of this design change with previous modifications must be determined by the installer.
2. FAA accepted Instructions for Continued Airworthiness (ICA), Document # TICA2925, Revision A, dated May 25, 2013
   FAA accepted Instructions for Continued Airworthiness (ICA), Document # TICA3001, Revision C, dated April 10, 2014,
   and Operating Guide TPG0001, Rev. F, dated April 11, 2014 or later FAA accepted revisions are required.
3. A copy of this certificate must be maintained as part of the permanent records for the modified engine.
4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall
give the other person written evidence of that permission.

Date of application: April 29, 2013
Date of issuance: June 26, 2013

Date reissued: April 23, 2014; December 2, 2014

By direction of the Administrator

Timothy Smyth
Manager, Propulsion and Program Management Branch
Chicago Aircraft Certification Office

(Signature)

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.
Date: Jan. 18, 2017

This letter serves as an official authorization that Tanis Aircraft Products allows the single installation of the preheat system part number: TSP4CYL-2925-115, serial number: 51447 per STC AML SE03232CH on one applicable engine.

This letter is also for reference to:
- TCCA acceptance of FAA-STC
- EASA-STC: 10054417

Retain a copy of this authorization for your records.

For any questions please contact Tanis Aircraft Products.

Regards,

[Signature]
Douglas J. Evink
President & CEO

You can obtain an optional copy of the STC cover letter and AML on our Website:
http://www.tanisaircraft.com/tsp4cyl-2925-115.html
or on the FAA RGL website:
# MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

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

<table>
<thead>
<tr>
<th>1. Aircraft</th>
<th>Nationality and Registration Mark</th>
<th>Serial No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td>People's Republic of China</td>
<td>C0452</td>
</tr>
<tr>
<td>Model</td>
<td>Diamond Aircraft Ind</td>
<td>DA20-C1</td>
</tr>
<tr>
<td>Name (As shown on registration certificate)</td>
<td>Cursino, Wilson Soethe</td>
<td></td>
</tr>
<tr>
<td>Address (As shown on registration certificate)</td>
<td>64 Lake Ave</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>Bristol</td>
<td>CT</td>
</tr>
<tr>
<td>Zip</td>
<td>06010</td>
<td>USA</td>
</tr>
</tbody>
</table>

3. For FAA Use Only

<table>
<thead>
<tr>
<th>4. Type</th>
<th>5. Unit Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair</td>
<td>Alteration</td>
</tr>
<tr>
<td></td>
<td>AIRFRAME</td>
</tr>
<tr>
<td></td>
<td>POWERPLANT</td>
</tr>
<tr>
<td></td>
<td>PROPELLER</td>
</tr>
<tr>
<td></td>
<td>APPLIANCE</td>
</tr>
<tr>
<td></td>
<td>Make</td>
</tr>
<tr>
<td>Model</td>
<td>(As described in Item 1 above)</td>
</tr>
<tr>
<td>Serial No.</td>
<td></td>
</tr>
</tbody>
</table>

6. Conformity Statement

A. Agency's Name and Address
- Name: Three Wing Aviation Group, LLC
- Address: 400 Great Meadow Rd
- City: Stratford
- State: CT
- Zip: 06615

B. Kind of Agency
- U.S. Certificated Mechanic
- Foreign Certificated Mechanic
- Certified Repair Station
- Certified Maintenance Organization

C. Certificate No.
- X Certificated Repair Station
- SL5R201N

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 here to 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: February 22, 2017
  - Jared Gowlis

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

<table>
<thead>
<tr>
<th>Person or Organization</th>
<th>Signature/Date of Authorized Individual</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAA Ft. Standards Inspector</td>
<td>February 22, 2017 Kamlesh Rana</td>
</tr>
<tr>
<td>FAA Designee</td>
<td></td>
</tr>
</tbody>
</table>

FAA Form 337 (10-08)
8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

USA N223DC  02/22/2017

Nationality and Registration Mark  Date

Removed existing Garmin GNS-430 #1 GPS/NAV/COMM and Garmin GMA-340 Audio Panel Intercom.  

Installed new Garmin GTN-750 GPS/NAV/COMM and GMA-35 Audio Panel in accordance with Garmin MDL 005-00533-C0 Revision 15 dated September 16, 2016, & GTN 6XX7XX AML STC Installation Manual PN: 190-01007-A3 Revision 10 dated September 8, 2016, and STC# SA02019S-E-D.

GTN-750 is interfaced to the existing Garmin GI-106A CDI. The GTN-750/GMA-35 mounting tray was mounted to the existing radio racks using MS hardware.

Installed Garmin GA-35 GPS Antenna in place of removed Garmin GA-56 GPS antenna using the mounting provisions provided by Diamond Aircraft. 

This installation is compatible with other previously approved modifications to the aircraft. Proper operation of the newly installed equipment was confirmed by completion of the respective system post installation checkout procedures.

Printed, filled out and inserted GTN-6XX7XX AFMS PN: 190-01007-A5 Revision 5 dated September 16, 2016 into the POH Supplements Section. Placarded panel "GPS limited for VFR only".

Weight and balance and equipment list was updated. The owner was provided with the operating manuals for the installed equipment.

Instructions for Continued Airworthiness

For the GTN/GMA, follow the instructions contained within the GTN 6XX7XX Part 23 AML STC Maintenance Manual PN: 190-01007-A1 Rev. 9 dated September 16, 2016 or later FAA Approved revision. A copy of this document was filled out and placed with the aircraft permanent records.

Work was done IAW the STC Manuals as applicable and FAA AC43.13-2B Chapter 1 Par 101, 104-114; Chapter 2; Chapter 3 Par 303-312 and AC 43.13-1B Chapters 10, 11, & 12.

END

FAA Form 337 (10-06)

[ ] Additional Sheets Are Attached
# Authorized Release Certificate

**FAA Form 8130-3, Airworthiness Approval Tag**

1. **Approving Civil Aviation Authority/Country:** FAA/UNITED STATES
2. **Organization Name and Address:**
   - GARMIN International 1200 E 151st Street Olathe, KS 66062
   - PMA production approval number PQ3742CE
3. **Form Tracking Number:**
   - 11070981814
4. **Work Order/Contract/Invoice Number:**
   - 110709818

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Serial Number</th>
<th>Status/Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>WAAS Antenna, GA35, White</td>
<td>013-00235-00</td>
<td>1</td>
<td>132776</td>
<td>NEW</td>
</tr>
</tbody>
</table>

## Remarks
Airworthiness Approval: This part is a subcomponent of a PMA Article

### 13a. Certifies the items identified above were manufactured in conformity to:
- [ ] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 12.

### 13b. Authorized Signature:

Mike Sloderbeck

### 13c. Approval/Authorization No.:
- ODA-240087-CE

### 13d. Name (Typed or Printed):
- Mike Sloderbeck

### 13e. Date (dd/mmm/yyyy):
- 09/Feb/2017

### User/Installer Responsibilities

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

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

Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certificate issued in accordance with the national regulations by the user/installer before the aircraft may be flown.
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

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

1. Aircraft
   - Nationality and Registration Mark: USA
   - Registration Mark: N223DC
   - Make: Diamond Aircraft Ind
   - Model: DA20-C1
   - Serial No.: C0452
   - Series:

2. Owner
   - Name (As shown on registration certificate): Cursino, Wilson Soethe
   - Address (As shown on registration certificate): 64 Lake Ave
   - City: Bristol
   - State: CT
   - Zip: 06010
   - Country: USA

3. For FAA Use Only

4. Type
   - Repair
   - Alteration
   - Unit

5. Unit Identification
   - Make
   - Model
   - Serial No.
   - (As described in Item 1 above)

6. Conformity Statement
   - A. Agency's Name and Address
     - Name: Three Wing Aviation Group, LLC
     - Address: 400 Great Meadow Rd
     - City: Stratford
     - State: CT
     - Zip: 06615
     - Country: USA
   - B. Kind of Agency
     - U. S. Certified Mechanic
     - Foreign Certified Mechanic
     - Certificate No.
     - Manufacturer
     - C. Certificate No.
     - Certification Repair Station
     - Manufacturer
     - Certified Maintenance Organization
     - X

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.

Signature/Date of Authorized Individual
February 22, 2017
Kamlesh Rana

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
     - X Approved
     - Rejected

BY
- FAA FL/Standards Inspector
- Manufacturer
- Maintenance Organization
- Persons Approved by Canadian Department of Transport
- FAA Designee
- X
- Repair Station
- Inspection Authorization
- Other (Specify)
- Certificate or Designation No.
- SL5R201N
- Signature/Date of Authorized Individual
- February 22, 2017
- Jared Gowiis

FAA Form 337 (10-06)
NOTICE

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

8. Description of Work Accomplished
   (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

   USA N223DC  02/22/2017

   Nationality and Registration Mark  Date

   Installed Garmin GTX-330 Transponder with ADS-B Out functionality in accordance with FAA STC# SA01714WI and Garmin Master Drawing List 005-00734-04 Revision 9 dated 10/13/2016. This aircraft model is listed on the AML for this STC.

   Interfaced the GTX-330 (ES) to the existing Garmin GTN-750 as approved GPS position source and for control/display of the GTX-330. Pressure altitude is provided by the existing Trans-Cali SSD120-30A Altitude Encoder.

   The GTX-330 (ES) was configured and tested per the installation manual and FAR 43 App E App C and F. Transponder tested good. A copy of the configuration information has been placed with the aircraft permanent records. It is part of the GTX-330 ICA document.

   This installation is compatible with other previously approved modifications to the aircraft.

   Printed, marked up, and inserted GTX-330 w/ADS-B Out FAA Approved AFMS 190-00734-15 Revision 2 dated 3/8/16 and placed into the aircraft.

   Weight and balance and equipment list was updated. The owner was provided with the operating manual for the installed equipment.

   Instructions for Continued Airworthiness

   For the GTX-330, follow the instructions contained in the GTX 33X and GTX 3X5 ADS-B Maintenance Manual document 190-00734-11 Revision 5 dated October 2016 or later approved revision. A copy of this document has been filled out and placed with the aircraft permanent records.

   Work was done IAW the STC Manuals as applicable and FAA AC43-13 1B/2B as applicable.

   END

   □ Additional Sheets Are Attached

FAA Form 337 (10-06)
## AUTHORIZED RELEASE CERTIFICATE

**FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**

### Item 6. Organization Name and Address:
- **GARMIN International**
- 1200 E 151st Olathe, KS 66062
- Certificate No. G6XR582Y

### Item 7. Description:
- GTX330 ES Black, Non-Diversity, 2A, Final

### Item 8. Part Number:
- 011-00455-60

### Item 9. Quantity:
- 1

### Item 10. Serial Number:
- 84126550

### Item 11. Status/Work:
- REPAIRED

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**REMARKS:**
Upgraded unit to include ES capability. Repaired the CDU to correct non-related issue. Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Unit passes all tests and is operating within normal limits. OK to return to Service.

This unit complies with this Service Bulletin 1578. It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins. The following Mod's were installed into this unit under its previous configuration prior to it being upgraded and configuration changed to part number 011-00455-60.

This unit complies with MOD 1 per Garmin’s Service Bulletin No. 0311. This unit complies with MOD 2 per Garmin’s Service Bulletin No. 0714.

The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 199-00364-00 Rev-AQ, Revision Date 12/12/2016. Thank you for choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020. Please view Garmin’s web site at www.garmin.com for any update or product information.

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### Item 13a. Certifies the items identified above were manufactured in conformity to:
- [ ] Approved design data and are in condition for safe operation
- [ ] Non-approved design data specified in block 12

### Item 13b. Authorized Signature:
- N / A

### Item 13c. Approval/Authorization No.:
- N / A

### Item 13d. Name (Typed or Printed):
- N / A

### Item 13e. Date (dd/mmm/yyyy):
- N / A

### Item 14a. 14 CFR 43.9 Return to Service
- [X] Other regulations specified in Block 12

### Item 14b. Authorized Signature:
- [Signature]

### Item 14c. Approval/Certificate No.:
- G6XR582Y

### Item 14d. Name (Typed or Printed):
- [Name]

### Item 14e. Date (dd/mmm/yyyy):
- 08 Feb 2017

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**User/Installer Responsibilities**

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

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

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

* Installer must cross-check eligibility with applicable technical data.
SouthTec Aviation  
Mobile (334) 728-6806

Date: July 29, 2016  DA20 C1 S/N: C0452  Reg: N223DC  
Tach: 0.0 TTAF: 2025.0hrs.

Annual / 1000 hr Inspection completed this date IA&W Diamond Aircraft DA20 AMM.  
The ELT was tested IA&W Appendix G of the airworthiness manual and FAR 91.207(d).  
ELT battery was replaced. Next replacement due July 2021. Replaced Teflon bushings  
And replaced bushing in NLG fork. Replaced bent alternator bracket. Removed exhaust,  
Repaired, weld crack and reinstalled with new gaskets. Replaced starter vibrator battery  
(P/n: LC-P1211R30), Replaced both LH & RH brake linings (RA66-108). Replaced  
NLG tire (5.00x4 GYFS II) and RH MLG tire (5.00x5 GYFS II). Repaired broken brake line  
brackets in LH & RH gear legs. Repaired crack in LH side engine baffle. Replaced scat  
hose from AirBox to heater muff. Removed old wing tape and installed new. Installed new  
Tempest Vacuum air filter (AAD9-18). Removed old tachometer and installed new  
(SL1010-55003-13-H05)

All work complied with IA&W Diamond DA20 AMM. Aircraft returned to service.

Glenn M. Lawler  
AP 2151929 IA

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**FAR 91.413**

**THE ATC TRANSPONDERS AND INSPECTIONS AS REQUIRED BY FAR 91.413 WERE PERFORMED THIS DATE AND FOUND TO COMPLY WITH PART 43 APPENDIX F, AND APPENDIX E PARAGRAPH C.**

**TRANSPONDER MAKE:**  
#1  
Garmin GTX330  
S/N: 84126550

**TRANSPONDER MAKE:**  
#2  
S/N: 84126550

**DATE:**  
8-3-2016

**WO:**  
2576  
INSPECTOR:  
Richard Ellington  
CAROLINA AVIONICS GROUP, LLC

**N223DC FAA APPROVED REPAIR STATION # QCCR-389K**

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Date: 2/22/2017  Aircraft: N223DC  Type: DA20-C1  S/N: C0452  Tach: 38.00


Installed Garmin G5 s/n: 4JQ006639 IAW Garmin Master Drawing List 005-01112-01 Rev 4 dated 1/08/17 and FAA STC
SJ01818WI. Aircraft model is on the AML for this STC. Installed using Garmin STC Installation Manual 190-01112-10 Rev 4 dated 1/15/17.

Installed G5 unit in pilots instrument panel in place of removed air driven attitude gyro. Configured the G5 using the speeds in the POH and per the STC Install Manual. Tested G5 to 20,000 feet per FAR 43 App E. Tested good. G5 checked good per the post installation tests of the STC Installation Manual.

Inserted Garmin G5 AFMS 190-01112-13 Rev 1 dated 7/22/2016 into POH supplements section.

Updated weight and balance and equipment list. Filed FAA Form 337

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

Work Order #: AV-17-1996

The aircraft, airframe, engine, or appliance identified was repaired and inspected in accordance with current regulations of the
Federal Aviation Administration and is approved for return to service. Repair Station No. SL8R201N.

J. DHL  
Date: 2/22/17
Date: 2/22/2017  Aircraft: N223DC  Type: DA20-C1  S/N: C0452  Tach: 38 00


installed new Garmin GTN-750 GPS/NAVICOMM SN: 12A020232 and GMA-35 Audio Panel SN: 1T6008011 in accordance with Garmin MDL 005-00533-C0 Revision 15 dated September 16, 2016 & GTN 6XX/7XX AML STC Installation Manual PN: 190-01007-A3 Revision 10 dated September 8, 2016, and STC# SA02019SE-D.

GTN-750 is interfaced to the existing Garmin GI-106A CDI. The GTN-750/GMA-35 mounting tray was mounted to the existing radio racks using MS hardware.

Installed Garmin GA-35 GPS Antenna SN: 132776 in place of removed Garmin GA-56 GPS antenna using the mounting provisions provided by Diamond Aircraft.

Shipped existing GTX-330 Transponder SN: 84126550 to Garmin for ES Upgrade. Installed Garmin GTX-330 Transponder with ADS-B Out functionality SN: 84126550 in accordance with FAA STC# SA0174WI and Garmin Master Drawing List 005-00734-04 Revision 9 dated 10/13/2016. This aircraft model is listed on the AML for this STC.

Interface the GTX-330 (ES) to the existing Garmin GTN-750 as approved GPS position source and for control/display of the GTX-330. Pressure altitude is provided by the existing Trans-Cal SSD120-30A SN: A87750 altitude encoder.

The GTX-330 (ES) was configured and tested per the installation manual and FAR 43 App E App C and F Transponder tested good. A copy of the configuration information has been placed with the aircraft permanent records. It is part of the GTX-330 ICA document.

This installation is compatible with other previously approved modifications to the aircraft. Proper operation of the newly installed equipment was confirmed by completion of the respective system post installation checkout procedures.

Printed, filled out and inserted GTN-6XX/7XX AFMS PN: 190-01007-A5 Revision 5 dated September 16, 2016 into the POH Supplements Section Placarded panel "GPS limited for VFR only".

Printed, marked up, and inserted GTX-330 w/ ADS-B Out FAA Approved AFMS 190-00734-15 Revision 2 dated 3/9/16 and placed into the POH supplement section.

Weight and balance and equipment list was updated. The owner was provided with the operating manuals for the installed equipment. Filed FAA Form 337's.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615.

Work Order # AV-17-1965

The aircraft, airframe, engine, or appliance identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Repair Station No. SL5R201N.
Date: 8/6/2015

TACH/HOBBS 2002.4
ESMOH 16.1
ETT 2002.4

Eng Entry
Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs. Cleaned all air and fuel filters. Changed oil and filter. Serviced with 6 quarts Aerospace 15w50 and A-48108-2 filter. Checked magneto points and timing. Performed compression check as follows: #1 78/80, #2 78/80, #3 78/80, #4 78/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Continental service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G03104 on file at Dillon's Aviation, Inc.

Ernest D. Rawls
For Dillon's Aviation, Inc.
AP238764345IA

South Tec Aviation
Mobile (334) 728-68006
Date: July 26, 2016 TCM IO-240 S/N: 650317
Tach: 0.0 TSOH: 38.7 TTE: 2026.0

Annual / 1000 hr Inspection completed this date IAW DA20 AMM and TCM Manuals.
Compression: #1 76/80 #2 68/80 #3 78/80 #4 69/80.
Drained engine oil. Checked filter for metal, none found at this time. Sample sent to BlackStone Labs. Filled engine with 6 quarts of Aerospace 15w50 oil and installed new Tempest Oil Filter (AA48010). Installed 8 new spark plug gaskets (P1003).

Engine checks complete. All Checks good at this time.

Glenn M. Lawler
AP 2151929 IA

Date: 2/22/2017; Aircraft: N223DC; Type: DA20-C1; S/N: C0452; Hobbs: 2793.60; Tach: 38.00

1. Installed Tanis engine heat system p/n TSPYCYL-2925-115 s/n 51447 IAW STC # SE03232CH. Ops checked good. Filed FAA Form 337. Weight and Balance negligible.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Shop Order MA-17-3746.

Kyle S. Bork A&P IA 3492553

Date: 2-22-17