| US Department |
|-------------------|
| of Transportation |
| Federal Aviation |
| |

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

| Form Approved OMB No. 2120-0020 2/28/2011 | Electronic Tracking Number |
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| | or FAA Use Only |

| of Transpo Federal Av Administra | viation | | (Airfran | ne, P | Powerplant, P | rop | elk | ler, o | r App | liance) | | | | |
|--|-----------|-------------------------|-----------------------------|---------------|---|----------|-------|---------|------------|--------------------------------------|--|------------------|-------------|---|
| instructi | ions ar | nd dispos . (49 U.S. | ition of this C. §46301(| form. (a)) | This report is red | | | | | | | | | bsequent revision thereof) for each |
| . , | ļ | Vationalit | y and Regis | stratio | n Mark 🌞 | | | | | Serial No. | | | | |
| 1. Aircraf | | N63983 | | | · · · · · · · · · · · · · · · · · · · | | | | | 27-785411 | 0 | | | |
| i. Anciai | יון . | Vlake | | | | | | | | Model | | | 1 | Series |
| | | Piper | | | | | | | | PA23-250 | | | | |
| | ľ | Name (As | shown on | regist | ration certificate) | | | | | Address (As s | | | - | certificate) |
| 2. Owner | 1 | | | | | | | | | Address 39050 | | jewoo | nd Ln | State OD |
| | - 1 | A | | | | | | | | City Aberd | | 14 | | State SD |
| | / | Aztec L | LC | | | | _ | | A II | Zip <u>57401</u> | 1-010 | 94 | Cou | ntry USA |
| | | | | | | |). Г | Or PA | A Use | Only | | | | |
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| 4. | Туре | • | | | | | 5. L | Unit Id | entific | ation | | | | |
| Repair | A | lteration- | Unit | | · | Mak | e | | | | Mod | iel | | Serial No. |
| | | V | AIRFRAM | E | | | | | | (As described in Item 1 above) | | | | |
| | · | | POWERP | LANT | T | | | | | | | | | |
| | | | PROPELL | .ER | | • | | | | | | | | |
| | 1 | | | | Туре | | | | | | | | | |
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| | - 1 | | APPLIAN | CE | Manufacturer | | | | | | | - | | |
| | 1 | | | | | | | | | | | | | |
| | | | | | | 6 | Ĉo | nform | ity Sta | tement | | | | <u> </u> |
| A. Agency | 's Nan | ne and A | dress | | | | | | f Agend | | | | | |
| | | vionics | | | | | Т | | · | ated Mechanic | | | Ma | nufacturer |
| | | | Guard Dr. | #73 | | <u> </u> | 7 | Fore | ign Cert | ficated Mechanic | | | C. Certi | ficate No. |
| | ux Fa | lls | ` | | _ State SD | _ [| 1 | Cert | ficated F | Repair Station | | | | |
| zip <u>57</u> | 104 | Cou | intry USA | | | | | Cert | ificated I | faintenance Organ | izatio | 1 | 2SNR2 | 224B |
| have | e been | made in | accordano | e with | on made to the ur the requirements o the best of my k | of P | art | 43 of | in iten | 15 above and de . Federal Aviatio | scrib In Re | ed on gulatio | the revers | se or attachments hereto at the information |
| Extended | • | | | | ature/Date of Auth | | | | ual | | | | | |
| per 14 CF | | | 7 4 | \ <u>`</u> | | | _ | | | | _ | /_ | | |
| Арр. В | | | → \ | | | | 4 | | | <u> </u> | // | -2/ | / >/ |) / / / |
| | | | | | 7. | Appl | OV | al for | Return | to Service | | -/- . | | |
| Pursuan | nt to the | he autho | rity given | perso | | ow, | _ | | identif | ed in item 5 v | | | | ne manner prescribed by the |
| Adminis | | Flt. Stand | | <u> </u> | ufacturer | Т | Ma | ainten | | Approved ganization | <u>' </u> | | ons Approv | red by Canadian |
| вү | Inspe | | | | | + | | **** | | | Othe | Depa r (Spe | rtment of T | ransport |
| 2045 | | Designee | ✓ | | air Station | | | • | | onzation | | | | - |
| Certificate Designatio | | | | Signa | ature/Date of Auth | ionze | | maivid | ual | | | | 7 2 | 1.0 |
| 2SNR22 | 24B | | | | 0/0 | 4 | | Z | | | | _/ | 12/ | 19 |
| FAA Fo | rm 33 | 7 (10-06) | | | | - | | | | | | | | / |

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 nat | tionality and registration mark and date | e work completed.) |
|--|--|--------------------------|
| | N63983 | 7/2/2019 |
| • | Nationality and Registration Mark | Date |
| Removed the following: Garmin GTX 327 transponder from flight station 66. To facilitate Garmin GTX 345 Transponder. | te the installation of a | |
| Installed The following item: Garmin GTX345 Transponder at FS 66, SN 3EG027097. GTX Installation: 1. The GTX 345 SN 3EG027097 system was installed at FS 6 | | |
| Rev 5. And STC# SA01714XWI, the previously installed L ban 2. Wiring: All systems were wired to the avionics buss through switches. For GPS position GTX 345 is interfaced to the previously installed by the state of the previously installed by the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of the previously installed L ban 2. Wiring the same state of t | the manufacturers recomme | nded circuit breaker |
| obtained from the previously installed altitude encoder. 3. Up dated GNS 430W software to version 5.4, and WAAS so | oftware to version 5.0. | |
| 4 Operational Flight and Ground checks: The Garmin Post ins | stallation checkout procedures | |
| installation manual was satisfactorily completed. The system of and do not interfere with the normal operation of the other equ | ipment installed nor does the | entire system cause a |
| current draw exceeding 80% of the rated generator output. It has change and any of those other previously approved modifi | nas been determined that the i | nterrelationship between |
| airworthiness of this airplane. | | , i |
| The GTX345 system configuration and check out logs were approved Flight Manual Supplement was Installed in the aircra | | |
| the FMS, Aircraft log books were updated this date and equipr | ment list was revised. | · |
| MAINTENANCE RELEASE: The aircraft and/or component id current federal aviation regulations and is approved for return | | |
| END | | - |
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| Additional Sho | nate Ara Attachad | |

Federal Aviation

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

| Form / | \ppr | oved | | |
|--------|------|------|-------|--|
| OMB | No. | 2120 | -0020 | |

For FAA Use Only

Office Identification

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) Make Piper PA-23-250 1. Aircraft Serial No. Nationality and Registration Mark 27-7854110 Name (As shown on registration certificate) Address (As shown on registration certificate) 4980 S 118TH ST **HRB Aircraft Company** 2. Owner Omaha NE, 68137-2200 3. For FAA Use Only The data identified herein complies with the applicable alloworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR Part 43, Section 43.7. 10 2007 4. Unit Identification 5. Type Unit Make Model Serial No. Repair Alteration (As described in item 1 above) Χ ... AIRFRAME 2.5 4 3.500 19.72 at werest to POWERPLANT PROPELLER Type APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address **B.** Kind of Agency C. Certificate No. Silverhawk Aviation Inc. ☐ U.S. Certificated Mechanic YQSR759U 1751 West Kearney Ave. ☐ Foreign Certificated Mechanic Lincoln, NE 68524 □ Certificated Repair Station ■ Manufacturer D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Date Signature of Authorized Individual 5/10/2007 Scotty G. Long 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED FAA Flt Standards Manufacturer Inspection Authorization Other (Specify) inspector BY FAA Designee Repair Station Person Approved by Transport Canada Airworthiness Group Date of Approval or Rejection Certificate or Signature of Authorized Individual Designation No. 5/10/2007: Scotty G. Long

FAA Form 337 (12-88)

YQŠR759U

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 | e is required, attach additional shee | its. Identify with a | aircraft nationality a | nd registration n | ark and date w | ork completed.) |
|----------------------------------|--|--|--|---|-----------------------|--|
| | | 1,21 (1) | | | | |
| Date 05/09/07 | Registration:N63983 | · San Andrews | , . | | | and the second s |
| Installation of a G | DL-69 XM Weather Data Receiver. | | | | | |
| Installation of the | following equipment: | | | | | |
| | -69 XM Data Receiver P/N 011-00 | 986-00 | | ** | | , |
| | 55 Antenna P/N 011-01033-00 | | | | | |
| | | | • | i ji Sarejeya e. Ma | | |
| The GDL-69 syst 1.Garmin 430\ | em is interfaced to the following eq W | uipment: | | e en fant it in. Gestraan Fransk in Fran | | |
| | DL-69 (P/N 011-00986-00) system 2 Rev. E dated June 2006 and AC | | | stallation manual | for GDL-69 XN | Weather Data Receiver |
| 2. Satellite signal | was accomplished with a Garmin (| GA-55 (P/N:011-0 | 01033-00) antenna | installed. | • | ٠, |
| 3. Power for the u | ınit was interfaced through the exis | ting avionics buss | s using a 5 amp cire | cuit breaker. | | e in producti |
| 4. The interfacing | wire was selected and installed in | Accordance with | the Manufacturers | installation manu | al and AC 43.1 | 3-1B Chapter 11 Section 6. |
| 5. Electrical load | analysis completed and equipment | does not exceed | 80% of the Avionic | s Bus capacity. | e supremble to an | en e |
| 7. Installed GDL | tures instructions manual PN.190-69 rack assy PN. 115-00658-00 w FS27.62, 4 inches right of aircraft of | ith 4 ea. screws F | PN. MS35206-246, | 4 ea. washers P | . 1 | d 4 ea. nuts PN. |
| Weight and Balar | nce and Aircraft equipment list upda | ated to reflect inst | tallation. | | | |
| | | | | | , | 30. |
| | ontinued Airworthiness: | | | | | · · · · · · · · |
| 1. See attached is | CA for maintenance instructions. | | | | | . • |
| | 1 | | TND | • | | |
| | <u>.</u> | | END | | | |
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| | And the second second | | | ari Z | | er e |
| | | . Naddina | onal Sheets Are Attached | | • • | Marketine Company of the State |

U.S Department of Transportation

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

| Form Appr | oved- |
|-----------|-----------|
| OMB No. | 2120-0020 |

For FAA Use Only

Office Identification

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| and a | disposit | ONS: Print or type all on of this form. This his violation (Section 9 | repoi | it is required l | oy law (49 | U.S.C | ppendix B, and C. 1421). Failu | I AC 43.9-1 (cre to report c | or subsequent revis an result in a civil pi | ion thereof) for inst enalty not to exceed | I \$1,000°°° °° ' | ofs up to the | | |
| | | Make Piper | 7 Y | ger vill gest filk g | er er er u | 1, 1 | MANUS ARTS. | Model | | | | | | |
| 1. Aircra | Serial No. 27-7854110 | | | | | | | Nationali N6398 | ty and Registration | Mark` , ;;;; ; | | , est | | |
| 2. Own | er | Name (As shown HRB AIRCRA | | | | | | Address (As shown on registration certificate) 4980 S 118 TH ST OMAHA NE, 68137-2200 | | | | | | |
| | | | | | | 3 | . For FAA Us | e Only | | | | | | |
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| | | | | | | 4 | I. Unit Identif | ication | | | 5. Type | | | |
| Ur | nit | Mai | ke | | | | Model | . , | Seria | ł No. , | Repair | Alteration . | | |
| AIRFRA | ME. | - | | | (As d | escri | bed in item 1 | l above) | nanananananananananananananananananana | المستنسل المستنسلة المستنسلة | | Χ | | |
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| POWER | PLANT | · | | | | | | - | • | | | | | |
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| AFFLIA | NCE | Manufacturer | | | | | | | | •• | | | | |
| | | | | | | 6 | . Conformity | Statement | | | | | | |
| A. Ager | ncy's Na | me and Address | | | | В. к | and of Agency | | | C. Certificate No. | | | | |
| | | Aviation Inc. | | | | H | U.S. Certifica Foreign Certi | | | YQSR759U | | | | |
| | | Kearney Ave. 68524 | | | | H | Certificated F | | | | | | | |
| | | | | | | | Manufacturer | | | | | | | |
| h | ave bee | at the repair and/or a n made in accordand true and correct to th | e with | the requiren | ents of Pa | | | | | | | | | |
| Date 5/10/0 |)7 | | | | | | Signature of | Authorized In | dividual | 1199 | | | | |
| | | | | | | | | G. LONG | | 1 /1 ho | 4/ | | | |
| | | | | | | | proval for Re | | | | | | | |
| ì | | ne authority given per of the Federal Aviati | | - | | | PROVED | REJECTED | | scribed by the | | | | |
| | | AA Fit Standards spector | | Manufacture | r | | Inspection A | uthorization | O | ther (Specify) | | ! | | |
| BY | F | AA Designee | х | Repair Station | on . | | Person Appro Canada Airw | | | • | | ; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ; | | |
| Date of 5/10/0 | | I or Rejection | Desi | ificate or gnation No. SR759U | | · | Signature of SCOTTY | | dividual / | 87 | 0 | | | |

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 s | pace is required; | attach addition | ial sheets. Ide | entify with aircraft | nationality an | d registration mark | and date work c | ompleted.) |
|--|---|---|--|---|---|--|---|--|
| O5/10/2007 N63983 27-7854110 WAAS Upgrade Validated that the previous installation of one GNS 430 was installed IAW Garmin instructions and approved via FAA-stamped field approval document on FAA-form 337 Dated 3/27/2001. Verified this aircraft and all interfaced equipment are covered under STC AML. Unit was removed an upgraded to GNS 430W. The existing location of the unit was determined to meet the field-of-view requirements without the need for external annunciation. The existing wiring and shielding was inspected and determined to be IAW the STC AML installation data. The existing GA56 anteni was removed and replaced with one GA35 antenna using the approved mounting previsions of the previous installation. A summary of the modification done to the aircraft is as follows: 1. Removed one (1) Garmin GA 56 antenna, P/N 011-00134-00 and installed one (1) new GA 35 antennas P/N 013-00235-00 using the provision left behind from the standard antenna IAW Garmin upgrade manual P/N 190-00357-06 Rev B and STC no. SA01933LA 2. Removed Garmin GNS 430 P/N 011-00280-10 unit and installed Garmin GNS 430W P/N 011-01060-40, using the provisions left behind from the standard 430 unit. Installation done IAW Garmin upgrade installation manual P/N 190-00357-06 Rev. B and STC no. SA01933LA. 3. The GNS 430W was configured identical to the original 430 unit. Each interface was checked out IAW the 430W Installation Manual P/N 190-00356-02 Section 5. A copy of the checkout log was completed and included with the aircraft maintenance records. 4. Removed the Aircraft Flight Manual Supplement for the GNS 430 and installed a GNS 430W AFMS. P/Ñ 150-00356-63 Rev. B, FAA Approved Date December 21, 2006 into the Aircraft Flight Manual. | | | | | | | | |
| document on upgraded to Cannunciation. | the previous inst FAA-form 337 D SNS 430W. The The existing wiri | tallation of one ated 3/27/2001 existing locatio ng and shieldin | GNS 430 was . Verified this n of the unit was inspec | s installed IAW G aircraft and all in as determined to ted and determine | armin instructi terfaced equip meet the field ed to be IAW t | ons and approved ment are covered u-of- view requirements of STC AML insta | via FAA-stamped Inder STC AML Ints without the n Ilation data. The | Unit was removed and eed for external |
| A summary of | f the modification | done to the air | rcraft is as fol | lows: | | | | • |
| Removed Garmin GNS 430 P/N 011-00280-10 unit and installed Garmin GNS 430W P/N 011-01060-40, using the provisions left behind from | | | | | | | | |
| 2. Removed the standard | Garmin GNS 43 430 unit. Installat | 0 P/N 011-002 tion done IAW | 280-10 unit an Garmin upgra | d installed Garmi de installation ma | n GNS 430W anual P/N 190- | P/N 011-01060-40 00357-06 Rev. B a | , using the provis nd STC no. SA0 | ions left behind from 1933LA. |
| 3. The GNS 00356-02 Sec | 430W was confiction 5. A copy of | igured identica f the checkout | I to the origina log was comp | ıl 430 unit. Each i leted and include | nterface was o | checked out IAW the aft maintenance re | e 430W Installat cords. | ion Manual P/N 190- |
| 4. Removed | the Aircraft Fligh | nt Manual Süpp | element for the | GNS 430 and in | stalled a GNS | .430W AFMS::- | all with the first of the first | इ.स.चेट्राल सर्वेट |
| P/N 1904 | 00356-63 Rev. B | FAA Approve | d Date Decen | nber 21, 2006 into | the Aircraft F | light Manual. | No. 1 & | |
| since the new | the aircraft Equip v.units draw the s or Continued Air | same or less cu | irrent than the | lance to reflect the original units. | ie new WAAS | units. The current | electrical load an | alysis remains valid |
| | | | | | | * ** | | |
| | W- Included Gardess in the aircraf | | • | 6-65 Rev. A, GN | S 430W Instru | ictions for Continue | ed Sto | • |
| Note: These | supercede ICAW | / data for the p | reviously insta | illed GNS 430 END | - · · · | | | * ***** |
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| | | -t . | | Additional She | eets Are Attached | • | | |

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| US Department of Transportation | n |
| Federal Aviation | |

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

| Form Appr | roved |
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Office Identification

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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

| · IUI | each | Such violation (S | ection s | 901 Federal Aviatio | MI ACLO | 195 | 0). | | | | | * |
|------------|-------------|---------------------------------------|----------------------|--|---------------------|--|---|------------------------------|---------------------------------|------------|--------------|------------|
| | | 1 | PIPER Model PA23-250 | | | | | | | • | | |
| 1. Ai | ircraft | Senal No. | 7-785 | 4110 | | Nationality and Registration Mark N63983 | | | | | | |
| 2. O | wner | Name (As a | shown o | on registration cert CORPORATION | ificate) | | | | | | | |
| | | | | | | 3. F | or FAA U | se Only | | | | |
| | | | | | | | | | | | | |
| | | | | | Ī | 4. U | nit Identi | fication | | | 5. Type | |
| | Unit | | Ma | ke | | | Model | | Serial No |) , | Repair | Alteration |
| AIRFI | RAME | | | | (As des | cribe | d in Item | 1 above) ——— | | | | × |
| POW | ERPLA | NT | | | ** | | | | | F | RECEI | VED |
| PROF | PELLER | | Marc 1988 1 | | ٠٠, | | | : | | | FEB 27 | |
| APPI | LIANCE | Type Manufactur | er | • | | | | - | | LIN | COLN, NE | E, FSDO |
| | | | | | 6. | | | Statement | | | | |
| | | s Name and Add | ress | | | `\ | Kind of Ag | | | C. Certif | icațe No. | |
| 5935 | sou | I. WILLEY TH 132ND STI IE 68137 | REET | | | × | Foreign Certificated Mechanic 21965 Certificated Repair Station | | | | | |
| | | | | | | | | e and described | on the reverse or attact | | | |
| Date | ! | 2/16 | /07 | | | 5 | Coline | Authorized Indi | ly | | | |
| | | | | | | | | ırn To Service | | | | |
| Pui Adi | ministr | ator of the Feder | al Avia | ersons specified be tion Administration | elow, the and is | e unit | identified APPRO | in item 4 was i | nspected in the mar REJECTED | nner presc | ribed by the | |
| BY . | | AA Flt. Standard espector | ls | Manufacturer | × | Ins | pection Au | thorization | Other (Specify) | | | |
| | | AA Designee | | Repair Station | | Car | nada Airwo | oved by Transporthiness Grou | p · | | | |
| Date | of App | oroval or Rejection 2/16/07 | on | Certificate or Designation No. 2196554 | <u> </u> | Sign | nature of the | Authorized Indi | vidual | | | |

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 appicable airworthiness requirements.

8. Description of Work Accomplished

INSTALLED BOB FIELDS AEROCESSORIES INFLATABLE DOOR SEAL CERTIFIED UNDER STC #SA4237WE DATED 9/25/1980. INSTALLED IN ACCORDANCE WITH BOB FIELDS AEROCESSORIES REPORT - BFA 310 DATED 3/27/1980, REVISION #2 DATED 2/26/1993 AND DRAWING #3950. INSTALLED WITH OPTIONAL MANUAL PRESSURE BULB I/A/W REVISION B DATED 8/12/1981. WEIGHT AND BALANCE NEGLIGIBLE.

----- END -----

| US Department of Transportation | |
|------------------------------------|--|
| Federal Aviation | |

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

| Form Approved | |
|-------------------|--|
| OMB No. 2120-0020 | |

For FAA Use Only

Office Identification

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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

| | | | n 901 Federal Aviatio | | | | andie 10 | report carriesum III | oran bendi | iy not to exce | -cu ψ1,000 · | |
|---------------|--------------------------|---|--|---------------------|-------------|--|-----------------|----------------------|--------------|--------------------|-------------------|--|
| 4 | 5' | Make PIPER | | | | | Model PA | A23-250 | | | * | |
| 1. Airc | cran | Serial No. 27-78 | 54110 | | | Nationality and Registration Mark N63983 | | | | | | |
| 2. Ow | ner | Name (As shown H.R.B. AIRCRAI | on registration cert FT CORPORATION | ificate) | | Address (As shown on registration certificate) 4980 SOUTH 118TH STREET OMAHA, NE 68137 | | | | | | |
| | | | | | 3. F | or FAA Use Or | ly | | | | | |
| | | | | | | | | | | | | |
| | | | | | 4. U | nit Identification | n | | | 5. Type | | |
| ι | Jnit | N | /lake | | | Model | | Serial No |). | Repair | Alteration | |
| AIRFRA | ·ME | | | (As des | cribe | d in Item 1 abov | /e) | _ | | | × | |
| POWER | RPLANT | | ings Significant | | | | | | | | | |
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| APPLIA | ANCE | Type Manufacturer | | | | | | | LIN | FEB 27 COLN, N | 7 2007 E, FSDO | |
| A A | | | | 6. | | formity State | nent | | | | | |
| | | ame and Address | | | | Kind of Agency | | | C. Certifi | cate No. | | |
| | RT J. W | TILLEY 132ND STREET | | | × | U.S. Certificated Foreign Certifica | | | | - 4 | | |
| | IA, NE | | | | | Certificated Rep | | 21965 | 04 | | | |
| | | | | | | Manufacturer | | - | | | | |
| | | | teration made to the unit | | | | | | | | | |
| | ance with | the requirements of F | Part 43 of the U.S. Feder | al Aviatio | | | | | e and correc | t to the best of r | ny knowledge. | |
| Date | | 2/16/07 | | | Sigi | Solut | | idual Wey | | | | |
| | | | | | | l for Return To | | | | | | |
| Pursi Admi | uant to th inistrator | e authority given pof the Federal Avi | persons specified be ation Administration | elow, the and is | e unit | identified in item APPROVED | 4 was in □ R | EJECTED | | ibed by the | | |
| вү _ | FAA Inspe | Flt. Standards ector | Manufacturer | × | Insp | pection Authoriza | ation | Other (Specify |) | | | |
| | | Designee | Repair Station | | | son Approved b nada Airworthine | | | | م مست | | |
| Date of | | al or Rejection 16/07 | Certificate or Designation No. 2196554 | • | | Solut | | _ | | | | |

FAA Form 337 (12-88)

Electronic Version (Adobe)

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 INSTALLED BOB FIELDS AEROCESSORIES INFLATABLE DOOR SEAL CERTIFIED UNDER STC #SA4237WE DATED 9/25/1980. INSTALLED IN ACCORDANCE WITH BOB FIELDS AEROCESSORIES REPORT - BFA 310 DATED 3/27/1980, REVISION #2 DATED 2/26/1993 AND DRAWING #3950. INSTALLED WITH OPTIONAL MANUAL PRESSURE BULB I/AW REVISION B DATED 8/12/1981. WEIGHT AND BALANCE NEGLIGIBLE. ----- END -----

[.] Additional Sheets Are Attached

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| US Departm of Transport | atioi | า |
| Federal Avi Administra | | |

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

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification
CE-09 DCD

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 of 1958).

| for each | such violation (Secti | on 901 Federal Aviat | ion A | ct of 1958). | andre to re | port can result in | a civii pena | iity not to exc | eed \$1,000 | | |
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| 1. Aircraft | PIPER | ` | | | | PA 23-25 | | | | | |
| | Serial No. 27-785 | 4110 | | - | Nationality and Registration Mark N63983 | | | | | | |
| | Name (As show | n on registration cer | tificat | e) | Address (As shown on registration certificate) | | | | | | |
| 2. Owner | HRB AII | RCRAFT COMPAN | Y | | PREET | | | | | | |
| | | | | | | | 68137 | | | | |
| | | | | 3. For FAA Use O | <u> </u> | LARRY END | 00137 | | | | |
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| | | | | 4. Unit Identificati | on | | | 5. Type | | | |
| Unit | , N | lake | | Model | | Serial No | ·· | Repair | Alteration | | |
| | | - <u></u> <u>}</u> | | | | | | перап | Alteration | | |
| AIRFRAME | | A)(A | s des | cribed in Item_1 abov | (e) | ····· | • • • • | | x. | | |
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| PROPELLER | | | | | | | | | | | |
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| APPLIANCE | Manufacturer | | | | | 1 | FEB 1. | B 2002 | | | |
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| A Agamayla | Non | | 6 | . Conformity Statem | | | | 1 | <u>., </u> | | |
| A. Agency s | Name and Address | | | B. Kind of Agency | | | C. Certi | licate No. | | | |
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| | 5 V STREET | | | Certificated Rep | | nic | - | | | | |
| | A, NE 6813 | | | Manufacturer . | | | 5 | 06804599 |) | | |
| | | or alteration made to ince with the requirer correct to the best of | | | 4 above a 5. Federal / | nd described on t Aviation Regulation | | | | | |
| Date | | | <u></u> | Signature of Author | rized Indiv | ridual | | | | | |
| 24_ J | ANUARY_2002 | | • | Down | - " | - clar | ; | | 4 ~ . | | |
| 11 1 1 | | | 7. Ap | proval for Return To | Service | 7 | | | | | |
| Pursuant t Administra | o the authority give tor of the Federal Av | n persons specified viation Administration | belov and | v, the unit identified is | in item 4 | was inspected in | the man | ner prescribe | ed by the | | |
| | AA FII. Standards spector | Manufacturer | x | Inspection Authoriza | | Other (Specify) | | | | | |
| l I | A Designee | Repair Station | | Person Approved by Canada Airworthines | Transport s Group | 1 | | | | | |
| Date of Appro | oval or Rejection | Certificate or | • | Signature of Author | | idual | | · | | | |
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| AA Form 33 | 7 (12-88) | 1 | | | =(| 1 | | | · | | |

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

| Description of Work Accomplished | 1 1 | · · · · · · · · · · · · · · · · · · · |
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REPLACE FILTERS EVERY 200 HRS OR 1 YEAR OR WHEN ELEMENT IS 50 % COVERED WITH FOREIGN MATERIAL.

| U.S. Department |
|-------------------|
| of Transportation |
| Federal Aviation |
| Administration |

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

Form Approved OMB No.2120-0020

For FAA Use Only

Office Identification

ACE-FSDO-09

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| instruction | is and dis | sposition of this | s for | ries. See FAR 43 m. This report is a (Section 901 Fe | requirea | by lav | W (49 U.S.C. 14 | AC 43. 21). F | .9-1 (or sub ailure to rep | sequent revoort can res | rision the ult in a c | ereof) for // ivil penalty n | ot to | |
| 1. Aircra | | Make PIPE | | · | , . | | | Model | PA-23-2 | 50 | | | | |
| | | Serial No. 27 | -785 | 4110 | <u>-</u> | | | | | | | | | |
| | | Name (As show | on re | gistration certificate) | | | | Addre | ss (As shown | on registration | certificate | e) | | |
| 2. Owne | er | HRB AIRCR | | | | 800 KAHL BLDG DAVENPORT IA 52801 | | | | | | | | |
| <u> ······</u> | | l | | | A 3. | ·For | FAA Use Only | | | | | | | |
| The data identi described aircr | fied herein att, suject t | complies with the o | applica ction b | able airworthiness rect y a person authorized futur LLA | rements and FAR Part | nd is ap 143, Se | oproved for the above | , | 20NO EOD CO | UTINI JED AR | 194]] | SS DATED 4 | 10/61 | |
| Date | | | | Inspector, CE09/LN | IK FSDO | | THE ATTACHED IN HAVE BEEN ACCE | PTED B | Y THE FAA | Tipled | Ellison | SS DATED | | |
| | | | | 4. Un | it Identif | icatio | on | | <u></u> | <i></i> | | 5. T | | |
| Unit | | | Mak | e , | | | Model | | S | erial No. | | Repair | Alteration | |
| AIRFRAME | | ~~~~~~ (A | ibed | in item 1 abov | ı) ~~ ~ | ~~~~~~ | ~~~~~ | | 5. P*** | х | | | | |
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| APPLIANC | E | Type Manufacturer | | | | APR 23 | | | | | 9 | | | |
| | | | | | 6. (| Confo | ormity Stateme | nit . | | | | | | |
| A. Agend | y's Nam | e and Address | ; | | | | B. Kind of Ag | ency | | | C. Ce | rtificate No. | | |
| DOUGLA | S R. HIL | L | | | | X | U.S. Certificated | Mechan | nic | | 21275 | 00 | | |
| C/O HILL | AERO M | 10D CENTER | | | | Г | Foreign Certifica | ed Med | hanic | | | | | |
| MUNICIF LINCOLN | | | | | | | Certificated Rep | ir Static | on | | | | | |
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| have | been ma | de in accordar | nce v | ration made to th vith the requirement of to the best of n | ents of Pa ny knowl | art 43 edge. | of the U.S. Fed | eral A | viation Reg | d on the revulations and | erse or I that the | attachments information | hereto | |
| Date | dla | D/n/ | | | S | ignat | ure of Authorize | d Indiv | vidual / | ~ | | | | |
| | -// | 0 0 / | | | 7. App | roval | for Return To | Servic | e | | | | | |
| Pur Adr | suant to | the authority g | iven | persons specified | d below, | the u | | tem 4 v | was inspec | ed in the m | nanner p | rescribed by | the | |
| ву | | t. Standards | | Manufacturer | | х | Inspection A | uthoriz | zation | Other (Sp | ecify) | | | |
| | FAA | Designee | | Repair Station | | | Person Appove Canada Airwor | | | | | | | |
| Date of Ap | proval o | r Rejection | | Certificate or Des 2127500 | signation | No. | Signature of A | / _ | ed Individu |] | | | | |

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.)

Fabricated fold down tables that are installed onto the aluminum Piper p/n 52910-004 back shrouds of the pilot and copilot seats at F.S. 97.00 . The tables hinge off of the seat back shroud using MS 20257-3 piano hinge secured with MS24693S28 #6 screws and MS 21083C-06 lock nuts in 5 locations. Double bullet catches secure the table in the down lock position. The tables are placarded "Table must be stowed for take off and landing "visible to the passengers at all times. All of the material specifications and mounting methods are specified in Hillaero drawing number 10489-27-7854110-01.

Structural integrity for this installation was determined by static load testing as specified in AC43.13-2A. Static loads were determined in accordance with Chapter 1, Paragraph 2d of this standard. The independent mounting of each component as well as the combined loads of the attaching items were tested using a calibrated spring scale. Test procedure accomplished in accordance with Chapter 1, Paragraph 3.

All materials used in this installation were burn tested and certified through Skandia 8110-3 dated 4-16-01.

Weight and balance and equipment list were amended to reflect these alterations.

Refer to the attached sheet for Continued Air Worthiness dated 4-12-01.

Reg #: N6983

Aircraft: Piper Aztec

Work performed by: Hillaero Mod. Center

S/N: 27-7854110

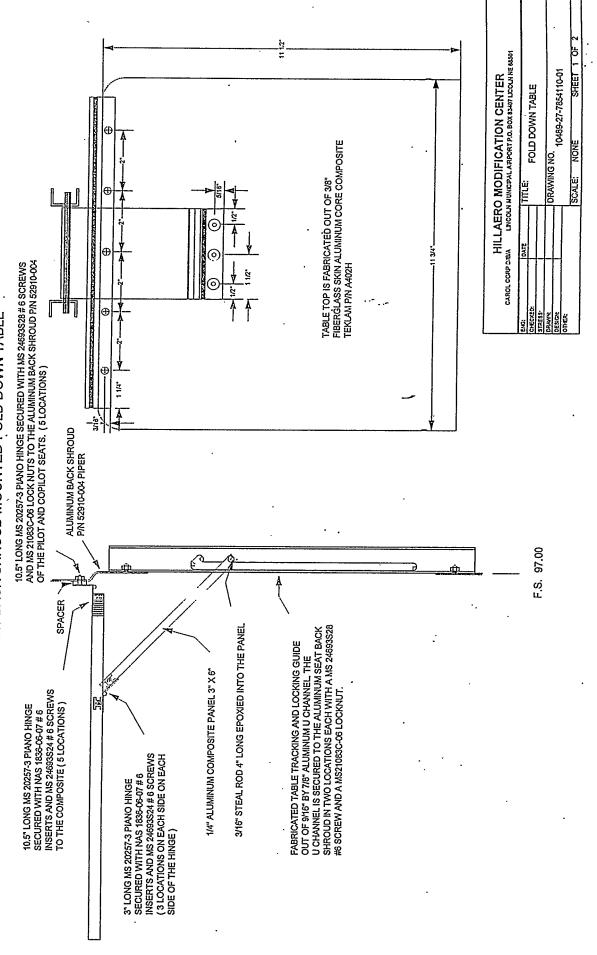
4-12-01

CONTINUED AIR WORTHINESS CHECKLIST

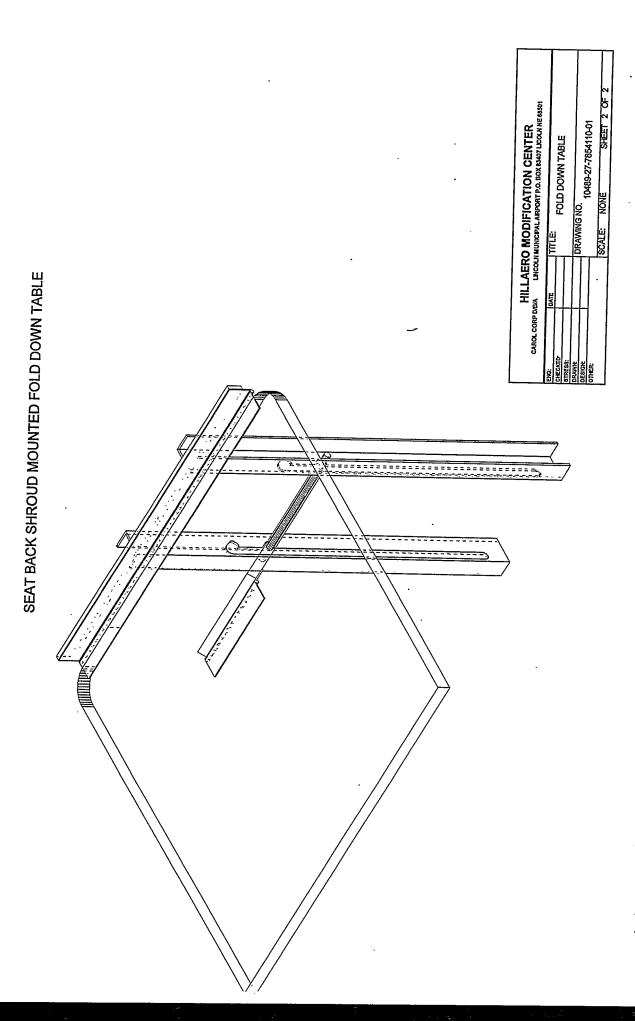
- 1. Introduction: The fabrication and installation of two fold down tables
- Description: The fabrication and installation of two fold down tables witch are secured to the pilot and copilot seat back shrouds.
- 3. Control, operation information: N/A
- 4. Servicing information: N/A
- Maintenance Instruction:
 General aircraft maintenance practices.
- Trouble shooting information:
 General aircraft maintenance practices.
- 7. Removal and replacement information: N/A
- 8. Diagrams: Refer to Hillaero drawing number 10489-27-7854110-01.
- 9. Special inspection requirements: N/A
- Application of protective treatments: N/A
- 11. Data: Hillaero drawing number 10489-27-7854110-01.
- 12. List of special tools: N/A
- 13. For commuter category aircraft: N/A
- Recommended overhaul periods:
 No additional overhaul time limitations.
- Air worthiness limitation selection: N/A
- 16. Revision: N/A



SEAT BACK SHROUD MOUNTED FOLD DOWN TABLE











U.S. Department of Transportation Foderal Aviation Administration

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

Form Approved OMB No.2120-0020

For FAA Use Only
Office Identification

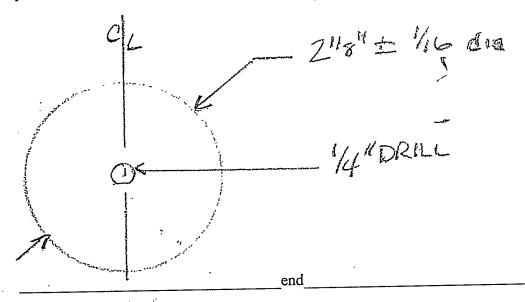
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| 1. Aircraft | Make PIPER | | | | | Mode | PA-23-2 | 250 | | | * |
| | Serial No. 27-78 | 54110 | | | | | | | | | |
| | Name (As shown on a | registration certificate) | | | | Addre | ss (As show | on registratio | n certifica | ale) | |
| -2. Owner | HRB AIRCRAF | • | | | | | KAHL BLD | _ | | • | |
| | | | | | | | ENPORT I | | | | |
| | | • | • | | | | | | | | |
| | | | 3. | For | FAA Use Only | | | | | | |
| The data identified herein described aircraft, suject | n complies with the application | cable airworthinoss/regu by a person authorized | nopledis an | d is a 43, Sc | pproved for the above oction 43.7 | e | | | | | |
| Dalo | • | Inspector, CE09.21 | K FSDO | | • | | | Ĺ | | | |
| | | 4. Uni | it Identifi | catio | on | ·· · | | | | 5. T | ype |
| Unit | Ma | ke . | , | | Model ' | | 2 | Serial No. | | Repair | Alteration |
| AIRFRAME | | ~~~~~~ (A | s descri | bed | in item 1 above | e) ~~~~ | ~~~~~ | | | | х |
| POWERPLANT | | | | | APR 2: | | | | ied | | |
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| PROPELLER | | | | | | | * * | APR 23 | S ZUU | (P. | |
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| APPLIANCE | Manufacturer | | | | | | Marie De la | | | | |
| | | | | | | | | | • | | |
| | | | 6. C | onfo | ormity Statemen | nt | | | | l | |
| A. Agency's Nam | e and Address | | | | B. Kind of Age | | | | C. C | ertificate No. | |
| | ****** | | ······································ | X | U.S. Certificated I | | ic | | | | |
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| MUNICIPAL AIRE | | | | _ | Foreign Certificate | | | | | | |
| LINCOLN, NE 68 | 524 | • | | <u> </u> | Certificated Repa | ir Statio | n | | | | |
| | | | | \bot | Manufacturer | | | • | · | | |
| have been ma | ne repair and/or alte ade in accordance v ein is true and corre | with the requireme | nts of Par | rt 43 | of the U.S. Fed | ove ar eral Av | nd describe viation Reg | d on the revulations and | erse or that th | r attachments lee information | nereto |
| Date /// | | | Sig | gnali | ure of Authorizo | d Indiv | idual | , , , , , , , , , , , , , , , , , , , | | | |
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| Administrate | the authority given or of the Federal A | | | | X APPRO | | vas inspec | REJECT | ED | prescribed by | .ne |
| BY FAA FI | II. Standards | Manufacturer | ļ | Х | Inspection Au | ulhoriza | ation | Other (Sp | ecity) | | Į. |
| B1 | Designee . | Repair Station | | | Person Appoved Canada Airworth | l by Tran niness G | nsport Froup | | | | |
| Date of Approval o | r Rejection | Certificate or Desi 2127500 | ignation I | VO. | Signature of Au | | ed Individu Model | 31 | | | |
| ENA Enmission | (12km) | | ALTERIA MANAGEMENTA | | | | Section 1 | NAME AND POST OFFICE AND POST | والمناد المنادية | CONTRACTOR COM | OR PROGRAMMENT AND A STREET |

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.)

Fabricated and installed 6 each, 30 gram, stabilator trim weights made of 0.090 thickness MIL-S-18729C Normalized 4130 steel sheet. Compatibility of these trim weights was determined by weight, size, and strength verified by a Rockwell "C" hardness test; all in accordance with FAA AC43.13-1B Chapter 4 Section 1. paragraphs 4-1.a., b, 4-2., a., b., 4-3a., Section 2. 4-16, 4-17, and 4-22. Weights conform to the dimensions below and are corrosion proofed with MIL-P-23377F chromate epoxy primer.



U.S. Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification

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 \$1,000.00

| | 501 | Federal Aviation A | ACT OF T | 958). | | | | | | |
|---|---|--|---|--|--|--|---|---|--|---|
| Make Piper | | | • | | | Model ~ | A-23-250 | | | |
| Serial No. 27-785 | 5411 | 0 | | | | Nationali | ty and Registration | Mark | N63983 | |
| | | | tificate) |) | | 800 Kal | hl BLDG | gistration ce | ertificate) | |
| - | The de | 3. Fo | r FAA | Use (| Only | | | | | |
| 1111 | 111 6 | 1 2001 Conspector | r, CE09, | , LNK | FSDO | | | | | |
| | | 4. Un | it Iden | tifica | tion | | 1 | | 5. Type | |
| | Mak | е | | | Model | · · · [] : | | о. | Repair | Alteration |
| | ~ . | ~~~~~(| As de | scribe | ed in Item 1 abov | re) ~~~ | ~~~~ | | | Х |
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| | | | | PECETVED MAR | | | S & TIP | FSDO | | |
| Type Manufacturer | | | ī.Il | ACC ACC | DLN, NE, F | SDO. | LINGO | M. 14- | | |
| | | | | 6. C | | | | | | |
| | s | | | | Kind of Agency | | | C. Certific | cate No. | |
| Aviation, Inc. Kearney Aver icipal Airport 68524 | nue | | | Foreign Certificated Mechanic X Certificated Repair Station YQSR759U | | | | | | |
| iade in accordar | nce w | vith the requirement | ts of Pa | art 43 | ified in item 4 ab | ove and deeral Aviation | escribed on the rev on Requlations and | l rerse or atta that the inf | chments here formation | eto |
| 0/2001 | | | | Sign | ature of Authoriz | ed Individe | úaj | | | |
| | | | 7. F | Appro | oval For Return | To Servic | e | | | |
| Pursuant to the authority given persons specified below, the Administrator of the Federal Aviation Administration and is | | | | | | | | er prescribe | ed by the | |
| Flt Standards ector | | Manufacturer | | Inspection Authorization Other (Specify) | | | | | | |
| Designee | x | Repair Station | | 1 | • • | • | | | | |
| I or Rejection の一 <i></i> る(| | Certificate or Designation No. YQSR759U | ., | Sign | nature of Authoriz | ed Individ | ual | | | |
| | Piper Serial No. 27-785 Name (As si HRB Aircra HRB Aircra Tad A Tad Tad | Piper Serial No. 27-785411 Name (As shown HRB Aircraft Co The data dirworth describe MR 2 Date Make Type Manufacturer Manufa | Piper Serial No. 27-7854110 Name (As shown on registration cert HRB Aircraft Company) 3. Fo The data identified herein or airworthiness requirements: described aircraft, subject to person authorized in FAR Part MAR 2 7 2001 Company Make 4. Un Make Type Manufacturer Designee x Repair Station Or Rejection Certificate or Designation No. | Piper Serial No. 27-7854110 Name (As shown on registration certificate), HRB Aircraft Company 3. For FAA The data Identified herein compiles almorthiness requirements and is a described aircraft, subject to confidence of the person authorized in FAR Part 43, MAR 2 7 2001 (Inspector, CE09, 4. Unit Iden) Make Make Type Manufacturer Designaee X Repair Station Or Rejection Certificate or Designation No. | Piper Serial No. 27-7854110 Name (As shown on registration certificate) HRB Aircraft Company 3. For FAA Use of The data identified herein complies with altworthiness requirents and is approving described aircraft, subject to conformity in person authorized in FAR Part 43, Section MAR 2 7 2001 (Inspector, CE09, LNK) 4. Unit Identificated Make Type Manufacturer Manufacturer Manufacturer Manufacturer 6. Come and Address Aviation, Inc. (Cearney Avenue cipal Airport S8524 The repair and/or alteration made to the unit(s) identificated in accordance with the requirements of Part 43 rein is true and correct to the best of my knowledge D/2001 7. 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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.

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

 Evaluated Garmin GNS-430 Global Rositioning System (GPS) previously installed under FAA Form 337 dated AR 2 7 200 for VFR use only. This system was found to meet the requirements of TSO C129(A1), AC 20-138 and is approved for IFR enroute, terminal and non-precision approach operations (GPS,Loran C,VOR,NDB,NDB/DME,VOR/DME,TACAN,RNAV). Test results are on file at this repair station under W.O.# 01-4648.

- 2. The Garmin GNS-430 NAV/COM/GPS is mounted in the avionics stack in clear view of the pilot.
- 3. The Garmin GNS-430 is displayed on the #1 CDI, a Garmin GI-106A and will annunciate VLOC mode or GPS mode as selected on the GNS-430 system.
- 4. The Garmin GNS-430 Pilot's Operating Guide, p/n 190-00140-00 Rev.A dated August 1998 (or later applicable version) and FAA Approved Flight Manual Supplement Dated/IAP 2 7 20 must be available and used when flight navigation is pedicated on the GNS-430 GPS.
- 5. Manufactures requirements for continued airworhtiness do not change with this installation.

Torres Alle Marie State

U.S. Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification



Administration

INSTRUCTIONS: Print or type all entries, See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000.00

| for e | ach such v | violation (Section | 901 | Federal Aviation A | ct of 19 | 958). | | | | | | | |
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| | | airworth describe person a | iness ed airc author | 3. For tiffed herein compiler requirements and is traft, subject to conforzed in FAR Part 43, 2001 Inspector, CEO | approve ormity in Section | ed for spect 143.7 | the above ion by a | | | | | | |
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| Date | of Approv | al or Rejection | · | Certificate or Designation No. | | Signature of Authorized Individual | | | | | | | |
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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.)

Removed the following equipment:

- 1. KMA 20 AUDIO AMP. P/N 066-1024-03
- 2. KA 39 VOLT CONVERTER P/N 071-1041-01
- KA 39 VOLT CONVERTER P/N 071-1041-01
- KI 201C NAV. INDICATOR P/N 066-3008-01
- KI 214 NAV. INDICATOR P/N 066-3025-01
- 6. KT76A TRANSPONDER P/N 066-1062-00
- 7. KX 170B NAV/COM P/N 069-1020-00
- 8. KX170B NAV/COM P/N 1069-1020-00

Installed the following equipment:

- 1. GMA 340 AUDIOPANEL INTERCOM P/N 010-00152-11
- 2. GNS-430 NAV/COM GPS P/N 011-00280-10
- 3. GI-106A GPS/NAV P/N 013-00049-00
- 4. GTX-327 TRANSPONDER P/N 010-00188-01
- 5. KX-155A WITH KI-209 P/N 069-1032-01
- 6. KA-120 DME CODE CONVERTER P/N 066-01089-00

Installed equipment in accordance with AC 43-13-1B chapters 4, 7, 11 and 12; AC 43.13-2A chapters 3, 11 and 2 sections 21, 22, 23, 24, 25 and 27.

Installed all equipment in accordance with manufactures' installation manuals Garmin P/N 190-00140-02 Rev H, P/N 190-00149-01 Rev F, P/N 190-00187-02 Rev D, P/N 190-00180-00 Rev B, Bendix/King P/N 006-10542-0003 Rev. 3, P/N 006-00140-0003 rev 3, P/N006-00549-0001 Rev 1.

Installed GNS-430 in accordance with AC 20-138 and reference to Garmin STC# SA00705WI (similar installation).

Fabricated new wiring harnesses and interfaced into existing aircraft wiring.

All equipment was functional tested per manufactures' installation manuals and interference tested with existing systems.

Additional Sheets are Attached

Complied with FAR 91-411, 91-413 transponder, encoder and static system tests.

Installed placard "GPS FOR VFR USE ONLY".

Updated wieght and balance and equipment list.

Manufactures' instructions for continued airworthiness do not change with this installation.

754105 8 1,

RECEIVED

U.S. Department of Transportation Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) Office Identification CE-01

Form Approved

OMB No. 2120-0020

For FAA Use O For FAA Use Only

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| 2. Owne | er | 27-78541 Name (As si HRB A/C | hown | on registration ce pany | rtificate | USA - N63983 e) Address (As shown on registration certificate) 800 Kahl Building Davenport, IA 52801 | | | | | | | |
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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.

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FAA Form 337 (12-88)

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

Description of Work Accomplished

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

- 1. Installed wiring harness for RDR-150 System previously installed on 337 dated March, 8, 1993.
- 2. All work was performed in accordance with AC43.13-1A Chapters 11, 13 and 15 and AC43.13-2A Chapters 1, 2 and 3.
- System installed and wired in accordance with RDR-150 Weather Radar System Installation Manual I.B. 2150-1 APR/78 and IN-152A Weathervision Radar Indicator Maintenance Manual I.B. 2152A.
- System powered off the avionics buss and protected by a 5A circuit breaker.
- See 337 dated March 8, 1993 for further detail. (Attached)
- Removed "INOP" placard from radar indicator.
- Revised Weight and Balance and Equipment List to reflect this installation. Made logbook entry to reflect this installation.

End

nor another transacti

Additional Sheets Are Attached

ATTACHMENT

| <u> </u> | <u> </u> | | | 7 . | | Form A | | od 20-0020 | | | | |
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| Aircraft | Serial No. | | | | Nationality and Registration mark N63983 Address (As shown on registration certificate) | | | | | | | |
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FAA Form 337 (12-88)

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

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

- 1. Removed existing Weatherscout II Weather Radar System.
- Installed used serviceable RDR-150 Weather Radar System consisting of DA-144A antenna drive, RT-131A receiver/transmitter, and IN-152A indicator.
- System installed in accordance with RDR-150 Weather Radar System installation manual I.B. 2150-1 Apr/78 and IN-152A Weathervision Radar Indicator maintenance manual I.B. 2152A.
- 4.. Indicator was installed in the same location the Weatherscout indicator was removed from. The antenna drive was installed in the same location the Weatherscout R/T/A was removed from. The RDR-150 R/T was located on the existing shelf just aft of the antenna drive mounting location.
- All work was performed in accordance with AC43.13-1A Chapters 11, 13 and 15 and AC43.13-2A Chapters 1, 2 and 3.
- System components were installed without wiring harness at this time per customers request. Pulled radar circuit breaker and tied off. Placarded radar indicator "inop."
- Revised Weight and Belance and Equipment List to reflect this installation. Made logbook entry to reflect this installation.

Additional Sheets Are Attached

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FAA Form 337 (12-88)

March 8, 1993

Certificate or Designation 2C

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.) 1. Removed existing Weatherscout II Weather Radar System. Installed used serviceable RDR-150 Weather Radar System consisting of DA-144A antenna drive, RT-131A receiver/transmitter, and IN-152A indicator. System installed in accordance with RDR-150 Weather Radar System installation manual I.B. 2150-1 Apr/78 and IN-152A Weathervision Radar Indicator maintenance manual I.B. 2152A. 4.. Indicator was installed in the same location the Weatherscout indicator was removed from. The antenna drive was installed in the same location the Weatherscout R/T/A was removed from. The RDR-150 R/T was located on the existing shelf just aft of the antenna drive mounting location. All work was performed in accordance with AC43.13-1A Chapters 11, 13 and 15 and AC43.13-2A Chapters 1, 2 and 3. System components were installed without wiring harness at this time per customers request. Pulled radar circuit breaker and tied off. Placarded radar indicator "inop." Revised Weight and Balance and Equipment List to reflect this installation. Made logbook entry to reflect this installation. hilogetelä ghanel et) is mostly to their कोवहारिकारी । यह जनसङ्ख्या । इस Sorgio (Control de La Cara de cudedonist [and in care to that the left of the partition of the care in the configuration burdges, a care is care in the configuration of Figure 13 of the U.S. Form it is building that the final tree tallors are in the configurations and that the tallors are in the configurations. Tagain that the test and a recommendation of the test 48 Camerall Church and belongen to a factor of bloomers of received a comment of received and entered to the comment of the co marencab and ned with the grand of 2.

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

Description of Work Accomplished
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UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS

2. MANUFACTURER AND MODEL

AIRCRAFT SERIAL

N63983

PIPER PA-23-250 (6PCLM)

27-7854110

NORMAL

5. AUTHORITY AND BASIS FOR ISSUANCE
This alreachiness contribute is resulted pursuant to the Federal Aviation Act of 1958 and certifies "ia", as of the date of issuance, the aircraft or which issued has been inspected and found to conform to the type certificate cerefor to be in condition for safe operand, and has been shown to meet the requirements of the applicable comprehensive and detailed airworkinness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions.

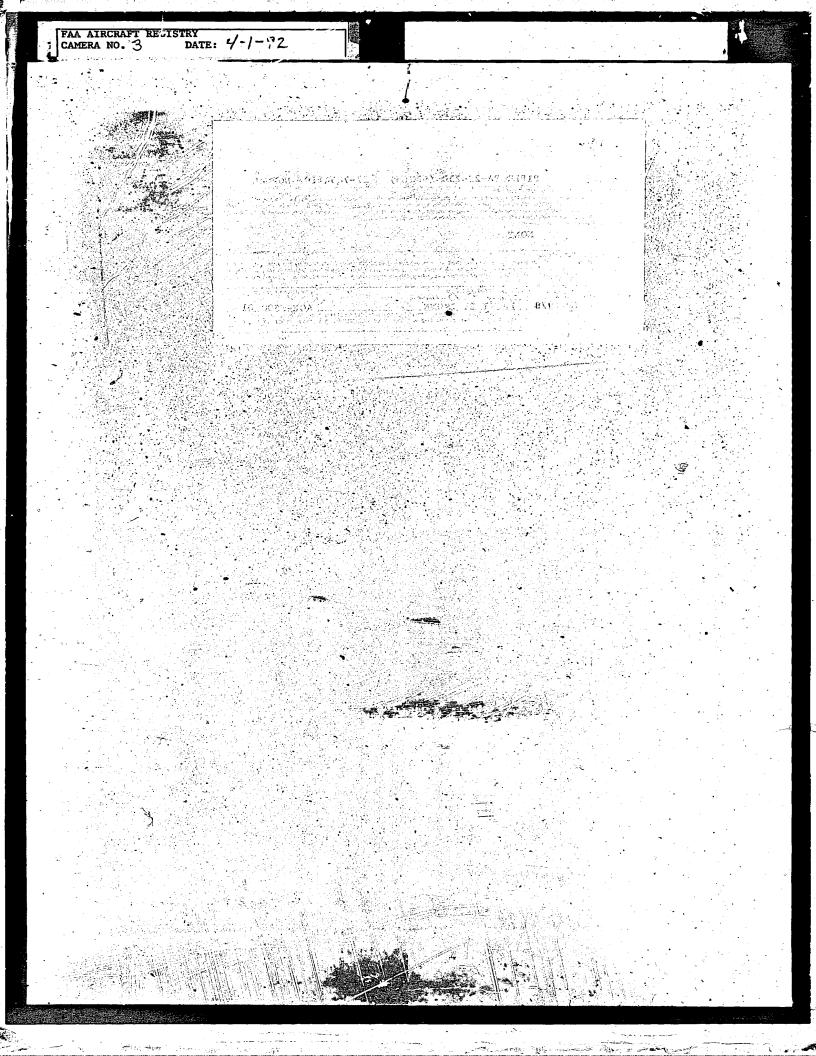
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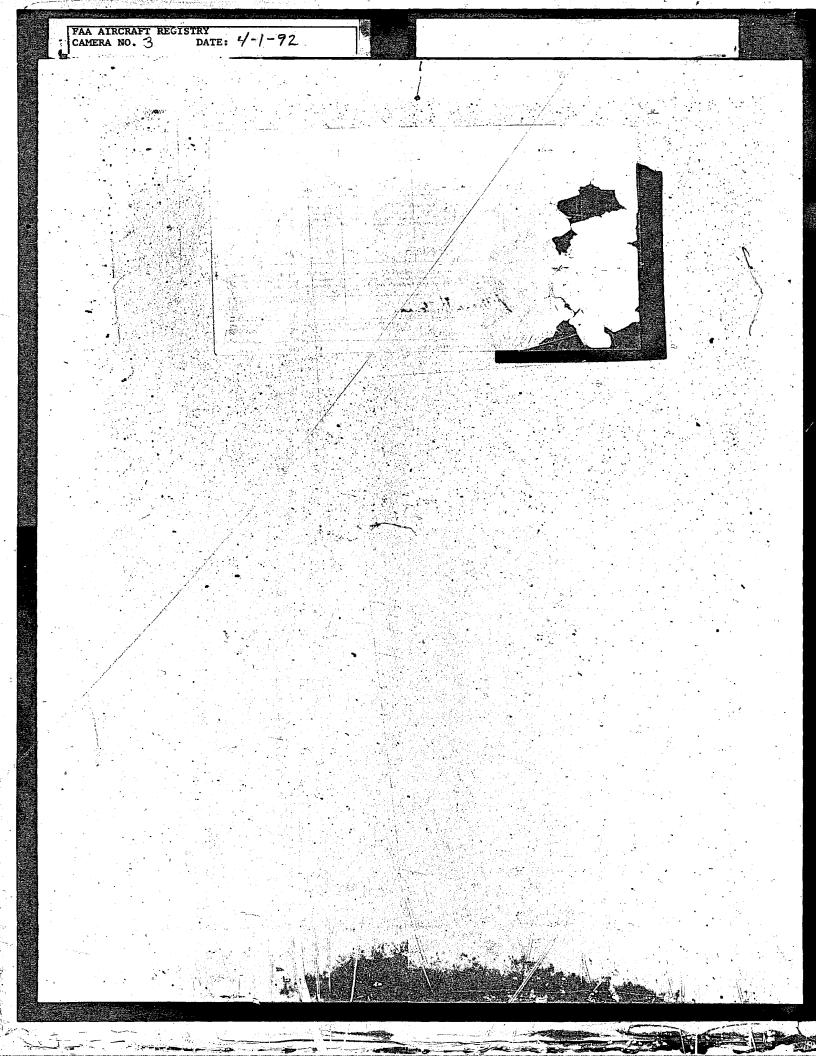
6. TERMS AND CONDITIONS
Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43,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

DATE OF A DECRESSION AT IVE AND A DESIGNATION NUMBER ACE—FSDO—01

Any alteration, reproduction, or missue of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding \$1,000, or impri

FAA Form 8100-2 (8-82)





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FAA Form 337 (12-88)

NOTICE

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| | DEPARTMENT OF TRANSPORTATION |
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| _ | FEDERAL AVIATION ADMINISTRATION |
| • | MAJOR REPAIR AND ALTERATION |
| (Air | frame, Powerplant, Propeller, or Appliance) |

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE-TSDO-01

| for instructi | ons and disposition of this form. | 43 Appendix B, and AC 45.9-1 (of subsequent levision thereof |
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| | MAKE | PA-23-250 |
| 1. AIRCRAFT | Piper SERIAL NO. | NATIONALITY AND REGISTRATION MARK |
| | 27-7854110 | N63983 |
| 2. OWNER | NAME (As shown on registration certificate) HRB Aircraft Company | ADDRESS (As shown on registration certificate) 800 Kahl Bldg. Davenport, Iowa 52801 |

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NOTICE

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

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) Installed Phillips X/C II 20w-50 oil in engine in accordance with STC_SE5879SW. END ADDITIONAL SHEETS ARE ATTACHED

★U.S. GOVERNMENT PRINTING OFFICE: 1977-771-021/344

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| AUTHORITY AND BASIS FOR This airworthiness certific date of issuance, the dir therefor, to be in condif- comprehensive and detail Aviation, except as noted Exceptions. | ote Missued pursuant of the craft/10 which issued has A confloor for safe operation, 684 ed, airwatthiness code as a publication. | Resident Aviation feer manufeled and host been shown owided by Annex | Att of TPSB and found to conform the require B to the Convention | certifies that, as of the to the type certificate ments of the applicable n on International Civi |
| this airworthiness certifica | , suspended, revoked, or a thin the state of the state of the state of the united affairs. | e-maintenance, pre | ventative maintena | ice, and alterations are |
| DATE OF ISSUANCE | FAA WANEENIATINE | the open | // Di | SIGNATION NUMBER |
| June 22, 1978 | William Hall | Tan | r | OA No. EA- |
| A Is a state of the state | or misuse of this certificate | May be punishab | e by a fine not ex | ceeding \$1,000, or im- |

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