

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 \$40.43 9 \$40.43 Ac

| | Make | | Model | _ | |
|-----------------------------|---|--|--|-----------------------|----------------------------|
| Aircente | Piper | | P471 | 2-135 | |
| . Aircraft | Serial No | | | Registration Mari | |
| | 22-1646 | | N338: | | |
| | Name (As shown on registr | ation cersificate) | | lown on registratio | n certificate) |
| Owner | | | | | |
| _ - | Frank Sperano | deo III | I | l Pear Circl | _ |
| | <u></u> | | | ttevil <u>le. AR</u> | 72704 |
| | | 3 For FAA U | | · | . |
| | | 1 | \$1.00 pt 10 | | |
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| | | 4 Unit Identi | lication | | 5 Type |
| Unit | Make | Model |] | Carrel Ma | 7 |
| | | | <u>]</u> | Secial No | Repair Asteralis |
| WED ALLE | ; | | | | T |
| BWASTRI | *************************************** | As described in Hem 1 | above) ******** | *** | |
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| OWERPLANT | | ļ | ! | | |
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| PROPELLER | | • | ! | | |
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| | Туре | | • | | - |
| APPL ANCE | <u> </u> | ! | | | |
| | Manufacturer | | | | |
| | <u> </u> | | | | |
| | Marma and Address | 6. Conformity ! | | | |
| | Vame and Address | B Kind of A | | , c c | ertilicale No |
| Robert D 14693 Wi | | | ficated Mechanic | | |
| | ille, AR 72704 | , | ertificated Mechanic | - 41 | |
| . HYVELEV | + 4 (S) MN (2 (U)) | · · · — | ed Repair Station | | 62528784 |
| 5 reader | Mallherenau seut canta co | Manufact | | 1 | |
| | | is made to the unit(s) -dentified be requirements of Part 43 of the | in item 4 above and di | escribed on the rev | erse or attachments hereig |
| lurnishe: | d herein is true and correct to | the best of my knowledge | G.a. Federal AVIAL | iibii megulations ar | on that the intormation |
| Date | | Signature of | Authorized Individua | -·· | |
| 12 | $\sum_{eo+} Oo$ | 11 | 19/11 | | |
| / ~_ | <u> </u> | | DA/ ILL | | |
| | | 7. Approval for Reti | | | |
| | | | Oldled in item 4 was | inspected in the | |
| Pursuant to Administrati | o the authority given persons for of the Federal Aviation Adr | Tenistration and is APPE | REJEC | TEO | manner prescribed by the |
| FA | o the Authority given persons for of the Federal Aviation Adr A FII Standards Manufact pector Manufact | | OVED OWEDE | TEO ther (Specify) | manner prescribed by 150 |

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 sheet | is. Identify with erroralt nationality and rec | istration mark and data work completed to |

- 1. Fabricated a 3" x 5" x .050 thk., 2024-T6 aluminum plate (door) with a MS520257P aluminum hinge attached on one side. (See Sheet A) Also affixed to top of door, is a 304 stainless steel arm/bracket fabricated and used as a cantilevered arm operated by a ratchetting, push/pull, ACS Product Co cable (See attached approved technical data for like cable pt #A-740, Sheet B) attached to the inside instrument panel. Door is fail-safed into the open position
- 2 Purpose: To regulate cooling airflow through oil cooler on cold days at altitude, enabling operator to maintain oil temperatures within green arc of indicator gage. Temperature at an ambient 53 degrees Fahrenheight OAT, with door open, indicated 160 deg. F (Top of yellow arc, below green, on oil temperature gage) With door closed, temperature at 6500 ft resulted in a stable oil temperature of 189 deg. F (center of green arc)
- 3 Installed placard on panel, above red actuating knob, in plain view of operator. Placard reads; "Oil Cooler Temp Pull Hot"
- 4. Instructions for continued airworthiness:
 - a) inspect door hinge and operating lever for condition and security.
 - b) Insure positive operation of door through range of motion.
- 5. No significant change of existing weight and balance.

| | _ |
|---|---|
| 2 |) |

US Department IN THE PARTY NAMED IN

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

1464298

| | TIONS: Print or type all entries. See FA | | 41- R and AC 43.9-7 | for subsequen | at revision thereof) for ' | instructions | |
|-------------|--|---------------------------|---|--|--|--------------|--|
| and disposi | TIONS: Print or type all entries, See FA Utlan of this form. This report is require Ich viptation (Section 901 Federal Avi | red by I&w (49 U.S.C. 14: | | ri can result in a | civil penalty not to ex- | ceed \$1,000 | |
| | Make | | Model | D + 22 125 | | | |
| 1. Aircraft | Piper | | | PA-22-135 and Registratio | on Mark | | |
|). Pur- | Serial No. 22-1646 | | | N3383A | | | |
| | Neme (Az shown on registration of | ertificate) | | | distration cartificate) | | |
| 2. Owner | Frank P. Speranded | • | 15841 Pear Cir. Fayetteville, AR | | | | |
| | | 1. For FAA U | | | | | |
| | | | HE ATTENTIONS HESS REQUIREMENTS HAS NOT FRANCIST TO FAR 43.2. | AND IS APPROVED ON DECOMPORATE ON DE | COMPLES WITH APPLICABLE AFFI MAY FOR THE ABOVE DESCRIBED CTIEN BY AFFERSON AUTHORIZED THA WE PECTOR |) N | |
| | | 4. Unit Identi | liteation | | 5, Түре | - | |
| Unit | Make | Model | | Serial No. | . Repair | Alteration | |
| AIRFRAME | | (As described in Item I | EDOVE) | | | x | |
| POWERPLANT | | | | <u>-</u> . | | <u> </u> | |
| PAOPELLER | | | | | | | |
| | Туре | | | | | | |
| KPPLIANCE | Manufacturer | | | | | | |
| | | 6. Conformity 5 | - | | | | |
| Agency's Na | ame and Address | B. Kind of Ag | | | C. Certificate No. | | |
| K. V. Tu | irnev | X U.S. Curtifi | ficated Mechanic | | | | |

On Locality that the repair and/or attention 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 jumished herein is true and correct to the best of my knowledge. Signature of Authorized Individual Date

Manufacturer

25. March 1996

17654 Marshall St.

Carfield, AR 72732

7. Approval for Return To Service

Foreign Cartificated Mechanic

Certificated Repair Station

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the ☐ APPROVED Administrator of the Federal Aviation Administration and is ☐ REJECTED

| | | FAA Fit Standards Inspector | Manufacturer | 1 | Inspection Authorization | Gold (specify) |
|----|--|--------------------------------|----------------|---------------------------------|--|----------------|
| BY | | FAA Designee | Repair Station | | Person Approved by Transport Canada Airworthiness Group | |
| | | Certificate or | | Signature of Authorized Individ | luar - | |

4. V. Turner

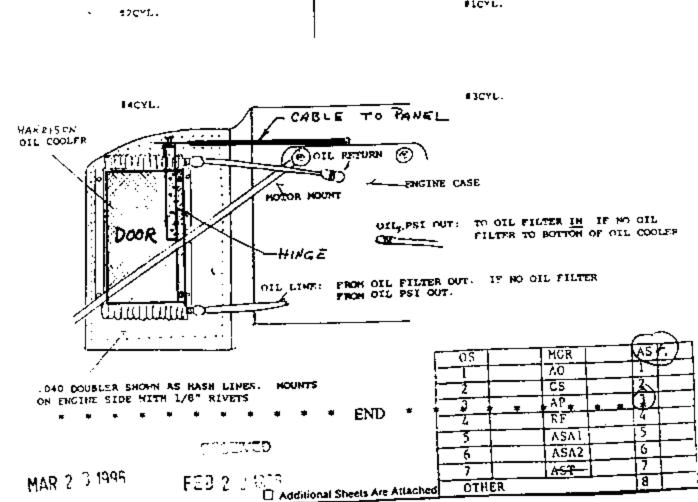
NOTICE

Weight and balance or operating limitation changes shall be antered in the appropriate aircraft record. An alteration must be compatible with all previous afterations 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.) 6. Description of Work Accomplished
 - Factory installed oil cooler was removed and baffeling was fabricated to eliminate old 1. opening.
 - Install Harrison Oil Cooler, model #APO07AU06-03, P/N8526250, Serial number on left rea€engine baffle. Oil cooler was removed from a Piper Cherokee 140 and will be installed 2. in this installation in a similar manner using acceptable methods, techniques, and practices. The cooler was cleaned, inspected, and tested to 120 psi and submerged in water to check for leaks. Previous approved data on PA-22, registration number N9684D (FAA form 337 field approved 8-2-89, SAT FSDO) was used as a guideline for this installation.
 - A new left rear engine baffle was fabricated and reinforced using the original as a pattern. New Aeroquip 601 hoses have been installed and secured as necessary. This alteration was 3. done exactly as the above field approval in every detail. The engine was run and all temperature and pressure readings were normal.
 - This alteration did not change existing weight and balance. 4

FROME OF AIRCRAFT

PICYL.



Atten: Frank

Ta: Frank Sperandeo

15841 Pear Circle

Fayetteville, AR 72704

A C S PRODUCTS CO., INC. -P.O. BOX 152 LOKE HOURSU CITY, AZ 88403 (520) \$55-84 (3

No. 5032

CERTIFICATE οí COMPLIANCE

4/15/97

| | P.O. NoOf |
|---------------------------------------|--------------------------------------|
| Attention: Quality Control Department | |
| A-750-10-0480 Our Part No | • |
| | Customer Part No. |
| Description Vernier control cables | Quantity Shipped2 |
| Other Information ACS Products is a | manufacturer of several FAA approved |
| controls are manufactured using the | |

controls are manufactured using the same materials, pull test and

inspection proceedures. We feel the mentioned controls are as good as or better than the originals that these are replacing. Pull tested to 150LBS

We certify that all parts furnished are of the specified materials and conform to applicable specifications and / or standards. Tast reports are on file and available for review

A C S PRODUCTS CO., INC.



U.S. Department of Transportation

Federal Aviation Administration

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ('For Field Approvals-FAA Form 337)

| | The Control of the Co |
|--------------|--|
| Rev | Make <u>Proc</u> Model: <u>PA-72-160</u> S/N: <u>22-1646</u> Reg. #: <u>N3383 A</u> Vision: Date: <u>/2 Sep-00</u> |
| 1 161 | s sixteen item checklist are Instructions for Continued Airworthiness (ICA), to comply with FAA adbook Bulletin for Airworthiness (HBAW 98-18 Dated October 7, 1998), are applicable to the raft listed above when the following equipment is installed: |
| | SYSTEM |
| ITF-M | CHECKLIST INFORMATION ———— |
| 1. | Introduction: This section briefly describes the aircraft, engine, propeller, or component that has been altered. Include any other information on the content, scope, purpose, arrangement, applicability, definitions, abbreviations, precautions, units of measurement, referenced publications, and distribution of the ICA as applicable. |
| | Madification to our mit on probations / A-320828 S. a. 12-22 120 |
| 2. | Comments: 17 1 They #2 white "Purpose" on 337 |
| 3. | Control: Operation information: Or special procedures, if any. Comments: Oil Cooler door to be operated to manten Oil temperature wigner orc. |
| 4. | Servicing information: Such as types of fluids used, servicing points, and location of access panels, as appropriate. Comments: 2007 http://doi.org/10.1007 |
| [| alteration components are inspected, cleaned, lubricated, adjusted, tested, including applicable wear tolerances and work recommended at each scheduled maintenance period. This section refers to the manufacturers' instructions for the equipment installed where appropriate (e.g., functional checks, repairs, inspections.) It should also include any special notes, cautions, or warnings, as applicable. Comments: 545444 Should be juspecked at 100ky with the 5 |
| 6. | Trouble shooting information: Information describing possible malfunctions, how to recognize those malfunctions, and the remedial actions to be taken. Comments: replace and faulty or danged parts as required. |
| | |

| | Removal and replacement information: This section describes the order and method of removing and replacing |
|-----|---|
| 7. | products, parts and any necessary precautions. This section should also describe or sefer to manufacturer's instance. |
| | phase required tests, trun cheeks, angument, calibrations, center of gravity changes, lifting or shoring, etc. if any |
| | Comments: 548 tem Checked for complete and free opening and closing. |
| 8. | Diagrams: Of access plates and information, if needed, to gain access for inspection. |
| | Comments: N/A |
| 9. | Special inspection requirements: Such as X-ray, ultrasonic testing, or magnetic particle inspection, if required. |
| | Comments: |
| 10. | Application of protective treatments: To the affected area after inspection and/or maintenance, if any. |
| | Comments: Compared to parts are (process) product as / 7/20 ch mante and any of |
| 11. | Data: Ketalive to structural rasteners such as type, torque, and installation requirements, if any |
| | K. omments: 15th to 86.437/3-13 for Standard James 15 |
| 12. | List of special tools: Special tools that are required, if any. |
| | Comments: D/A |
| 13. | For commuter category aircraft: The following additional information must be furnished, as applicable: |
| | M. Electrical loads |
| | B. Methods of balancing flight controls |
| | C. Identification of Primary and secondary structures |
| | D. Special repair methods applicable to the airplane. |
| | Comments: D/A |
| ι4. | Recommended overhaul periods: Are required to be noted on the ICA when an overhaul period has been set by the |
| | inandiactorer of a component, or equipment. If there is no overhaul period, the ICA should state for item 14: No. |
| | additional overhaul time limitations. |
| | Comments: V/A |

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15. Airworthiness Limitation Section: Include any "approved" airworthiness limitations identified by the manufacturer or FAA Type Certificate Holding Office (e.g., An STC incorporated in a larger field approved major alteration may have an airworthiness limitation.) The FAA inspector should not establish, alter, or cancel airworthiness limitations without coordinating with the appropriate FAA Type Certificate Holding Office. If there are no changes to the airworthiness limitations, the ICA should state for item 15: "No additional airworthiness limitations" or "Not Applicable." Comments: UD additional / metations are imposto 16. Revision: This section should include information on how to revise the ICA. For example, a letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date) for the above aircraft or component major alteration have been accepted by the FAA. superseding the Instructions for Continued Airworthiness (date)," Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 337.

Note: Implementation and Record Keeping: For major alterations performed in accordance with FAA Field

Comments:

is made part of the applicable section 91,409 inspection program for their aircraft. This is accomplished when a maintenance entry is made in the aircraft's maintenance record in accordance with section 43.9. This entry records the major alteration and identifies the original ICA location (e.g., Block 8 of FAA Form 337, dated 5/28/98) along with a statement that the ICA is now part of the aircraft's inspection/maintenance requirements. For major alterations performed in accordance with a field approval on air carrier aircraft, the air carrier operator is

Approval policy, the owner/ operator operating under part 91 is responsible for ensuring that the ICA

Responsible for ensuring that the ICA is made part of the applicable inspection/maintenance program for their aircraft. If a procedure is not currently included in the operator's manual to incorporate ICA. this process will need to be appropriately addressed (i.e. the operator submits a revision to its maintenance program to the applicable certificate-holding district office (CHUDO).

For aircraft inspected under an Approved Aircraft Inspection Program (AAIP), the operator will submit a change to the CHDO in accordance with section 135.419 b).

For air carrier aircraft inspected using an annual/100 hour inspection program, a reference to the new ICA will be made in the aircraft's maintenance record in accordance with section 43.9. This entry records the major alteration and identifies the original ICA location (e.g., ICA is located/attached to Block 8 of FAA Form 337, dated 5/28/98). In addition, the operator will request a revision to the operator's Operations Specifications, additional maintenance requirements, which incorporates the ICA into the inspection program.