

# N13839

## 1970 Piper Turbo Aztec D

---

# LH Engine

# Logbook

## SMOH | #1 of 2

## 1990 - 1991

**MSN: 27-4480**



**RidgeAire**  
WORLDWIDE  
aviation specialists

*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*

## ENGINE LOG

11-20-90

Engine Time

Recorder

Maintenance

**BOOROM AIRCRAFT, INC.**

Since 1948

Quality Aircraft Services

816 Airport Road, Jackson, Michigan 49202

Telephone 517-784-AERO or 517-764-0485

Fax 517-784-0446

LEFT ENGINE LOG N13839 S/N L-1532-61  
 Date: 11-20-90 Tach: 1931.94 TSMOH 0.0  
 Engine removed for overhaul and disassembled. The following parts were overhauled and reinstalled:  
 2-ES10-349310-1 and 2-ES10-349290-1 Bendix magnetos; 6-76087 Cylinders; 1-2524359-10 Servo fuel injector; 1-2524223-2 Flow divider; 6-2523785 Injector nozzle; 1-RG17980 Fuel pump; 1-441CC-7 Vacuum pump; 1-406610-9021 Turbocharger; 1-LW12778 Wastegate; 1-LW10682 Controller; 1-LW10098 Controller (see yellow and overhaul tags). The following parts were replaced new: 1-76148 Camshaft; 12-72877 Follower; 12-SL13521 Rod bearing; 2-SL13884 Bearing; 1-STD-2209 Crank gear

Carry forward

# BOOROM AIRCRAFT, INC.

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816 Airport Road, Jackson, Michigan 49202

Telephone 517-784-AERO or 517-764-0485

Fax 517-784-0446

bolt; 1-SL67516 Washer; 12-74644 Rod bolt; 12-SL12186 Rod nut; 6-LW10124 Bearing; 1-73251 Washer; 1-SL61297 Oil pump gear; 1-SL61298 Oil pump impellor; 3-MS24665-151 Cotter pin; 6-MS13998-3 Cap - valve stem; 1-~~P11-4419 Air cleaner~~; 2-75845 Gasket; 4-STD-2132 Nut; 1-SL-STD-35 Washer; 1-AN6C27A bolt; 2-AN6C20A Bolt; 1-AN6C10A Bolt; 3-78246 Gasket; 2-SL67542 Mag Bearing; 1-M2792RH Mag harness; 6-SL77611 Gasket; 1 AN9248 Nut; 12-0271371 Sparkplug. All stell parts were magnafluxed and inspected, camshaft and followers reground (see yellow tags). Engine reassembled and reinstalled on

# ENGINE LOG

| Date | Engine Time | Recorder<br>Reading | Maintenance |
|------|-------------|---------------------|-------------|
|------|-------------|---------------------|-------------|

**BOOROM AIRCRAFT, INC.**

Since 1948

Quality Aircraft Services

816 Airport Road, Jackson, Michigan 49202

Telephone 517-784-AERO or ~~517-764-0485~~

784-2376

Fax 517-784-0446

aircraft. Engine was test ran and checked okay. All work done in accordance with Lycoming Parts Catalog PC-315 and Lycoming Overhaul Manual 60294-7. Engine approved for return to service after test flight.



AP371542159 FA

END

11/20/90

T  
C

# SERVICEABLE

LY-CON AVIATION, INC.

F.A.A. Approved Repair Station 3270

Customer Boorum Aircraft

Part Name \_\_\_\_\_

Mfg. By Lycoming

Part No. \_\_\_\_\_

Model T10-540-C1A Serial No. L-1532-61

Condition \_\_\_\_\_

Remarks: Cleaned and magnaflux inspected

Crankshaft, 2 counterweights, 6 connecting rods and caps, 2 idler gears, crank gear, 2 mag drive gears, fuel pump idler gear and drive gear, governor idler, shaft, and drive gear, vacuum pump drive gear, 6 piston pins, 12 rocker arms, and oil pump drive impeller.

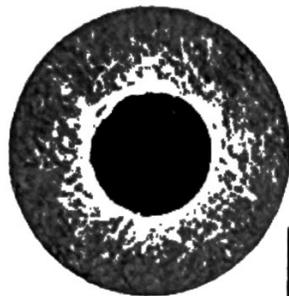
Polished and dimensionally checked crankshaft: size (std) runout (OK).

Installed counterweights on crankshaft.



**SLICK**

**FAA/PMA APPROVED**



**HIGH TEMPERATURE  
AIRCRAFT HARNESS  
PART NO. M2791LH**

*Right*

Mfg. TCM/BENDIX Part No. ES10-349290-1  
Serial No. 9110012 ESI P/N 00397  
Model S6LN-1208 MAGNETO

**MAINTENANCE RELEASE**

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was overhauled and inspected in accordance with Current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the overhaul are on file at this repair station under:

Work Order No. 7249 Date 11/01/89

Signed: *Thomas Nease*



**ELECTROSYSTEMS, INC.**

P.O. Box 273      205/227-8306      TWX 810-744-3450  
FORT DEPOSIT, AL 36032 U.S.A.

F.A.A. APPROVED REPAIR STATION NO. UT2R226L

Mfg. TCM/BENDIX Part No. ES10-349290-1  
9080143  
Serial No. 56LN-1208 MAGNETO ESI P/N 00397  
Model \_\_\_\_\_

### MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was overhauled and inspected in accordance with Current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the overhaul are on file at this repair station under:

Work Order No. 5685 Date 08/02/89

Signed: Randy Tolliver



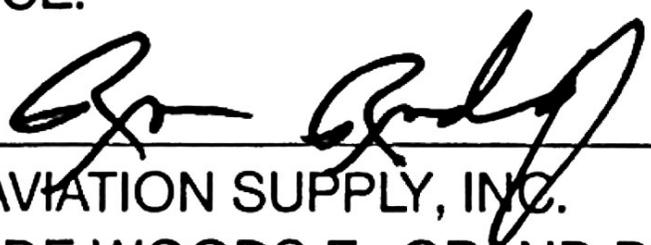
**ELECTROSYSTEMS, INC.**

P.O. Box 273 205/227-8306 TWX 810-744-3450  
FORT DEPOSIT, AL 36032 U.S.A.

F. A. A. APPROVED REPAIR STATION NO. 3779

# MAINTENANCE RELEASE

THE APPLIANCE IDENTIFIED ON THE REVERSE SIDE WAS OVERHAULED OR REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

SIGNED  328368260 FOR  
PRAIRIE AVIATION SUPPLY, INC.  
3805 VERDE WOODS E., GRAND PRAIRIE, TX. 75051

WORK ORDER # 9915 DATE 11 / 12 / 90

FAA APPROVED REPAIR STATION # 202-191

LEFT  
ENG.

  
ELECTROSYSTEMS, INC.

Airport Complex  
PO Box 273  
Fort Deposit, Alabama 36032 USA  
205/227-8306  
TWX 810-744-3450

## WARRANTY DATA CARD

The following information must be supplied when requesting warranty consideration:

BENDIX 349310-1 9080143  
MFR P/N S/N

DATE INSTALLED

DATE REMOVED

11-16-90

1931.9

TACH TIME

TACH TIME

OWNERS NAME 5 STAR AVIATION

ADDRESS P.O. Box 503

COLUMBIA CITY IN

PHONE           /          

RETAIN THIS CARD WITH AIRCRAFT LOG BOOKS

# ELECTROSYSTEMS, INC.

FORT DEPOSIT, AL 36032 U. S. A.

F. A. A. APPROVED REPAIR STATION NO. UT2R226L

## Magneto Tag



ASBY

Assembled by



INSP

Tested by

Inspected by

Packaged by



MC

INSP  
P/N

# 408

S/N

0080162

Insp./Cert.



AUG 06 1990

LIMITED  
ACCESSORIES  
FAA APPROVED  
STATION NO. TB3R861L



Serving Every State In The United States

**SERVICEABLE**

**SOUTHWEST COOLER SERVICE**

3939 PLATINUM WAY  
DALLAS, TEXAS 75237

CUSTOMER Boorum Aircraft

Part Name Controller

Mfg. By Airesearch

Part No. LW10682

Serial No. KER0140

Repaired By *[Signature]*

Date October 9, 1990

Insp. By *[Signature]*

LIMITED  
ACCESSORIES  
FAA APPROVED  
STATION NO. TB3R861L



Serving Every State In The United States  
**SERVICEABLE**  
**SOUTHWEST COOLER SERVICE**  
3939 PLATINUM WAY  
DALLAS, TEXAS 75237

CUSTOMER Boorum Aircraft

Part Name Controller

Mfg. By Airesearch

Part No. LW10098

Serial No. 00426

Repaired By *[Signature]*

Date October 9, 1990

Insp. By *[Signature]*

LIMITED  
ACCESSORIES  
FAA APPROVED  
STATION NO. TB3R861L

LEFT



Serving Every State In The United States  
**SERVICEABLE**  
**SOUTHWEST COOLER SERVICE**

3939 PLATINUM WAY  
DALLAS, TEXAS 75237

CUSTOMER Boorum Aircraft

Part Name Turbocharger

Mfg. By Airesearch

Part No. 406610-9021

Serial No. JBR0110

Repaired By *[Signature]*

Date October 9, 1990

Insp. By *[Signature]*

LIMITED  
ACCESSORIES  
FAA APPROVED  
STATION NO. TB3R861L



Serving Every State In The United States  
**SERVICEABLE**  
**SOUTHWEST COOLER SERVICE**

3939 PLATINUM WAY  
DALLAS, TEXAS 75237

CUSTOMER Boorum Aircraft

Part Name Wastegate

Mfg. By Airesearch

Part No. LW12778

Serial No. JC0223

Repaired By *Mike F.*

Date October 9, 1990

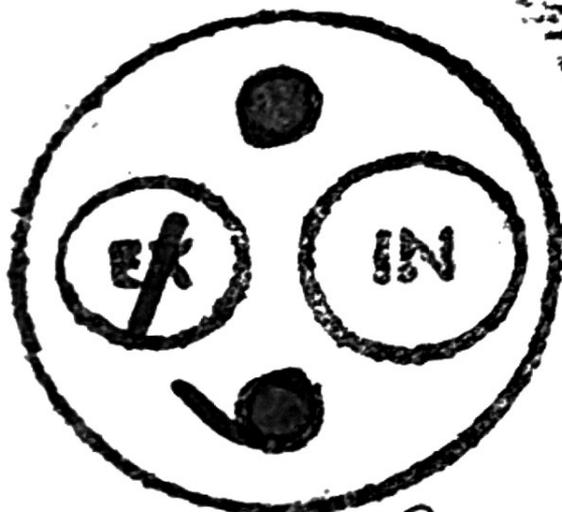
Insp. By *[Signature]*

#5

# MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No. 3251



Date 11-6-90

Signed Daniel Turner

\_\_\_\_\_ For



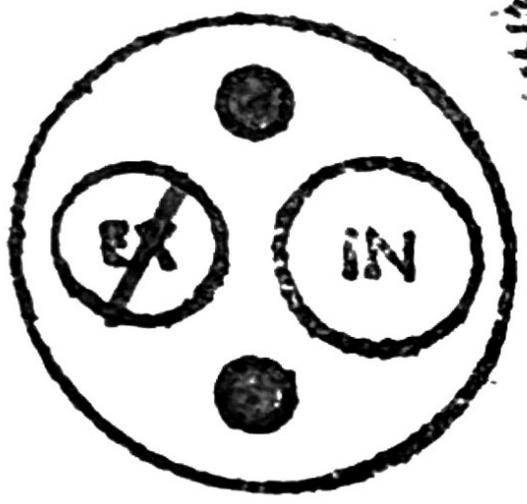
**HARRISON ENGINE SERVICE, INC.**  
Gov't. Approved Repair Station #LR2R988K

#1

# MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No. 3252



Date 11-5-90

Signed David Turner

\_\_\_\_\_ For



**HARRISON ENGINE SERVICE, INC.**

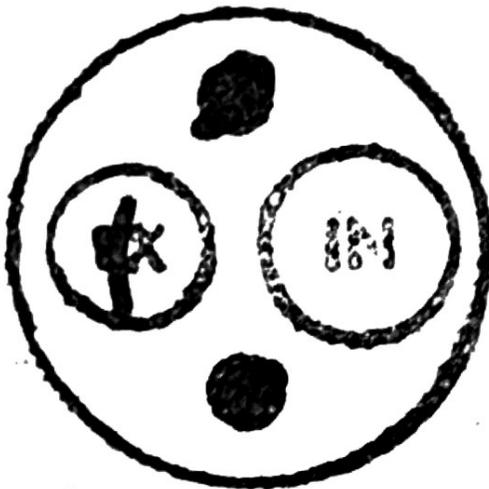
Gov't. Approved Repair Station #LR2R988K

301 DETROIT STREET  
 LAPORTE, INDIANA 46350  
 Phone: 219-362-9707 or 219-362-9925  
 1-800-348-0257 Fax 219-324-5395

# MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No. 3253



Date 11-6-90

Signed David Turner

\_\_\_\_\_ For



**HARRISON ENGINE SERVICE, INC.**

Gov't. Approved Repair Station #LR2R988K

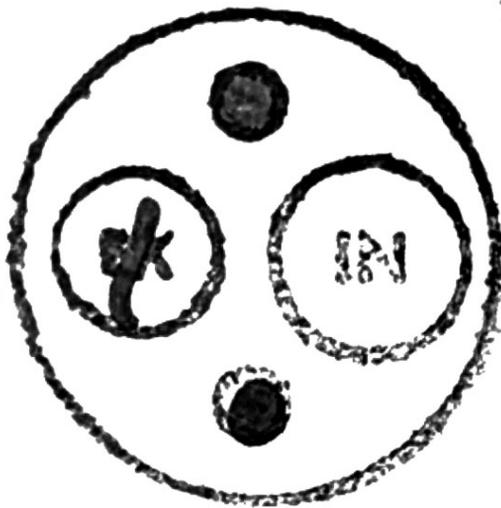
301 DETROIT STREET  
LAPORTE, INDIANA 46350  
Phone: 219-362-9707 or 219-362-9925  
1-800-348-0257 Fax 219-324-5395

#4

# MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No. 3254



Date 11-6-90

Signed David Turner

\_\_\_\_\_ For



**HARRISON ENGINE SERVICE, INC.**

Gov't. Approved Repair Station #LR2R988K

301 DETROIT STREET

LAPORTE, INDIANA 46350

Phone: 219-362-9707 or 219-362-9925

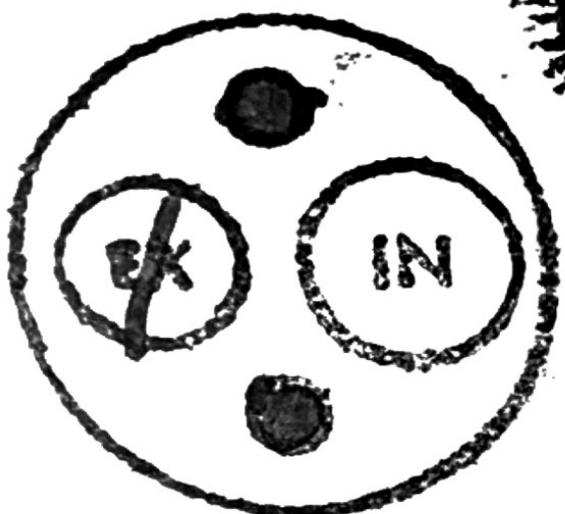
1-800-348-0257 Fax 219-324-5395

#2

# MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No. 3255



Date 11-6-90

Signed David Turner

For



**HARRISON ENGINE SERVICE, INC.**

Gov't. Approved Repair Station #LR2R988K

301 DETROIT STREET  
LAPORTE, INDIANA 46350

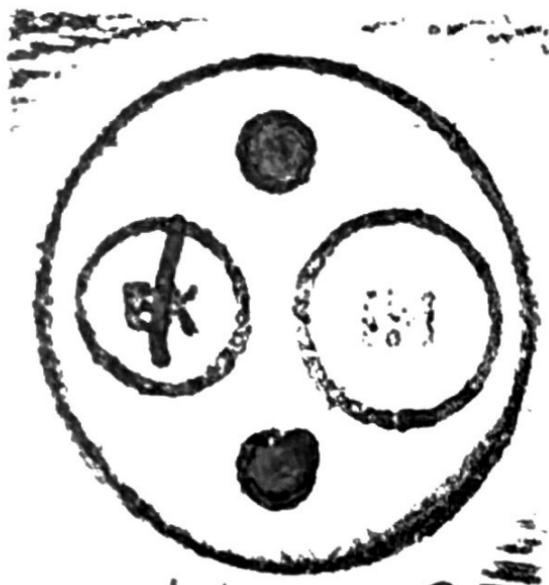
Phone: 219-362-9707 or 219-362-9925  
1 800-348-0257 Fax 219-324-5395

#6

# MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No. 3256



Date 11-6-90

Signed David Turner

\_\_\_\_\_ For

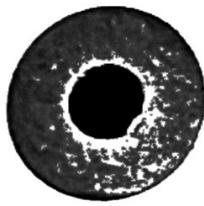


**HARRISON ENGINE SERVICE, INC.**

Gov't. Approved Repair Station #LR2R988K

301 DETROIT STREET  
LAPORTE, INDIANA 46350

Phone: 219-362-9707 or 219-362-9925  
1-800-348-0257 Fax 219-324-5395



# SERVICEABLE

MFGR. NAME Lycoming  
COMPONENT Camshaft  
MODEL 76148  
SERIAL NO. 545424-4

## ENGINE

THE AIRCRAFT/COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER

WORK ORDER NO. 45424

DATE 9-19-10

SIGNED [Signature]

**AIRCRAFT  
SPECIALTIES  
SERVICES**

FAA CERTIFIED REPAIR  
STATION NO. DD2R764K

272

Customer Boorum A/c P/O Letter Date Rec'd 9-19-90

Address \_\_\_\_\_ Date Wanted \_\_\_\_\_

Attention \_\_\_\_\_ Phone \_\_\_\_\_ Promised \_\_\_\_\_

Item Servo Mfr. \_\_\_\_\_

Model RSA 5 ADI P/L 2524359-10 S/N 30621

Cond. as Rec'd \_\_\_\_\_ HOH (AAZAW)

Attachments: Fittings (2) Levers (2) Brackets (-) Hose (-)

Other (2) F/D 25242232 S/N 728T (3) 6 Nozzles 2523753

Missing Parts \_\_\_\_\_

Work to be Done: OVERHAUL ( OK ) IRAN ( ) BENCH TEST ( )

Special Instructions \_\_\_\_\_

Disassy. Notes \_\_\_\_\_

|       |                       | Parts Replaced |     |     |        |
|-------|-----------------------|----------------|-----|-----|--------|
| ✓ Qty | Part Number           | Name           | "R" | "C" | Price  |
| 1     | 100% PARTS KIT        |                | ✓   |     | 763    |
| 2     | 367925                | BEARING 6102   | ✓   |     | 222    |
| 1     | 2526413               | STOP           | ✓   |     | 19.5   |
| 1     | 2537608               | STRAPPER       | ✓   |     | 111.30 |
| 1     | 2520852               | SCREW          | ✓   |     | 16.30  |
| 1     | 2521636               | WASHER         | ✓   |     | 7      |
| 1     | 2526388               | DIAPH          | ✓   |     | 94.91  |
| 1     | 2538998               | GASKET         | ✓   |     | 2.34   |
| 1     | 2522021               | PIH            | ✓   |     | 950    |
| 1     | 2522022               | PIH            | ✓   |     | 8.91   |
| 1     | T-LEVER BUSHING 24462 | LOCAL 24462    | ✓   |     | 8.00   |
|       | 951291                | prop. 110      |     |     | 0      |

- "R" - Reason for Replacing
- A - Standard Replacement
  - B - Bulletin
  - C - Conversion
  - D - Damaged
  - F - Failure
  - M - Modification
  - P - Precautionary
  - R - Rust or Corrosion
  - S - Specification
  - U - Update
  - W - Worn
- Mis- Missing
- "C" - Cond. of Repl. Parts
- Code: N - NEW  
US - USED
- BILLING INSTRUCTIONS
- SALE ( ) EXCHANGE ( )  
OVERHAUL ( ) IRAN ( )  
BENCH TEST & ADJUST ( )  
Other \_\_\_\_\_

Parts \$ 1624.31

10% 102.43 Net \$ 921.88

Labor: 45N

Std. \$ 170.5

Extra 75F Total \$ \_\_\_\_\_

NET TOTAL \$ 1097.38

INV. No. \_\_\_\_\_ Date \_\_\_\_\_

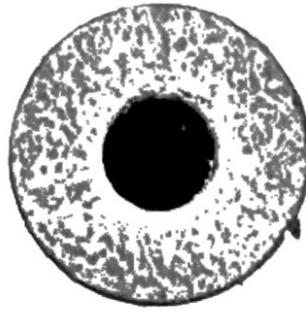
Disassy. by 9/21/90 PAI-1A Rev. 8/5

INSPECTED + ASSEMBLED 15/10 S/N 728T J. IAW BENCH

MANUAL 15-54013 12/15/90 STAFF 2/1/90 9/25/90

INSPECTED + ASSEMBLED 16 FA 2523255 12/15/90 JAW

BENCH MANUAL 15-54116 6/1/95 JAW 7/15/90



**ELECTROSYSTEMS, INC.**

**FORT DEPOSIT, AL 36032 U. S. A.**

F. A. A. APPROVED REPAIR STATION NO. UT2R226L

# Magneto Tag

 **3**  
Assembled by

 **2**  
MSP  
Tested by

 **2**  
Inspected by  
MSP

Packaged by  
*mc*

P/N # 397

S/N 9080143

Insp./Cert..

 **2**  
AUG 02 1989

# SERVICEABLE

|   |                |   |
|---|----------------|---|
| ITEM DESCRIPTION  |                | MFG.  |
| Servo Fuel Injector   |                | BX  |
| MODEL OR TYPE   | PART NO.       | SERIAL NO.  |
| RSA5AD1   | 2524359-10     | 30624   |
| TYPE REPAIR ACCOMPLISHED  |                | DATE  |
| <b>MAJOR OVERHAUL</b>   |                | 9/25/90   |
| INSP.   | WORK ORDER NO. | <b>PRECISION AIR INC.</b><br>F.A.A. AIR AGENCY No. 2029<br>BENDIX FUEL METERING CONTROLS<br>FACET (MARVEL-SCHEBLER) CARBURETORS<br>CENTRAL DISTRIBUTOR<br>SALES & SERVICE<br>3610 N. W. 41 ST.<br>MIAMI, FLA. 33142<br>(305) 635-5293 |
|  | 57961          |   |
| INSP. OR TEST IS REQUIRED<br>IF IN STORAGE AFTER:                                 |                |   |
| CUSTOMER:   |                |   |
| Boorum Aircraft   |                |   |
| CUSTOMER ORDER NO.  |                |   |

# S E R V I C E A B L E

Also OHC 6 ea Nozzles  
P/L 2523785  
137

|   |                |  |
|---|----------------|--|
| ITEM DESCRIPTION  |                | MFG.   |
| Flow Divider  |                | BX   |
| MODEL OR TYPE   | PART NO.       | SERIAL NO.   |
| ---   | 2524223-2      | 728T   |
| TYPE REPAIR ACCOMPLISHED  |                | DATE   |
| MAJOR OVERHAUL  |                | 9/25/90  |
| INSP.   | WORK ORDER NO. | <b>PRECISION AIR INC.</b><br>F.A.A. AIR AGENCY NO. 2029<br>BENDIX FUEL METERING CONTROLS<br>FACET (MARVEL-SCHEBLER) CARBURETORS<br>CENTRAL DISTRIBUTOR<br>SALES & SERVICE<br>3610 N. W. 41 ST.<br>MIAMI, FLA. 33142 (305) 635-5293 |
|  | 57962          |  |
| INSP. OR TEST IS REQUIRED<br>IF IN STORAGE AFTER:                                 |                |  |
| CUSTOMER:<br>Boorum Aircraft  |                |  |
| CUSTOMER ORDER NO.  |                |  |

| and Remarks   | Signature | Certificate No. |
|---|-----------|-----------------|
| <p>JAN 5, 1991 C/W ANNUAL Insp<br/> Piper Maintenance MANUAL, FCC<br/> Cylinders <math>\frac{78}{80}</math> or BETTER @ 12 HRS SMOH.<br/> Changed oil 65-30 - Now Oct. 10 qts<br/> Inspected Left Prop TT 1940.<sup>0</sup><br/> ADS All To Date, Run up + Checked<br/> Satisfactory                      END</p> |           |                 |
| <p>I certify that This Engine + Prop<br/> HAS been inspected in accordance<br/> with <u>ANNUAL</u> Inspection and was<br/> determined to be in AIRWORTHY Condition<br/> Date: <u>1-5-91</u> Signature <u>Philip A [Signature]</u><br/> Certificate # <u>316525369 FA</u></p>                                      |           |                 |



