

FAA APPROVED REPAIR STATION YZ8R163C
Phone (763)780-1185 E-mail: info@bolducaviation.com



AIRCRAFT ENGINE SERVICES, INC.

ANOKA COUNTY AIRPORT 8891 Airport Road Box 8A, Minneapolis, MN. 55449

WORK ORDER # 35684

NAME: Gibson Aviation

Date Received: 08-09-2023

ADDRESS:

Cust PO:

PHONE:

MAKE:

MODEL:

SERIAL #

HOBBS TIME:

Cont

O-470-R

LABOR

| | |
|--|----------|
| Disassembly and preinspect cylinder (qty 5) | \$245.00 |
| Clean and zyglo cylinder (qty 5) | \$390.00 |
| Replace and bore exhaust guide (qty 3) | \$210.00 |
| Replace and bore both guides each cylinder (qty 2) | \$168.00 |
| Hard Hone and crosshatch (qty 5) | \$340.00 |
| Grind seats, valves, lap and assemble cylinder (qty 5) | \$405.00 |
| Paint and preserve cylinder (qty 5) | \$285.00 |
| Clean and inspect piston (qty 5) | \$275.00 |
| Fit ring to cylinder and piston (qty 5) | \$230.00 |
| Test valve springs per cylinder (qty 5) | \$90.00 |

TOTAL PARTS

\$3,451.86

SUBLET REPAIRS

TOTAL SUBLET

\$0.00

PRELIMINARY INSPECTION BY

INSPECTION FOR HIDDEN DAMAGE BY

IN PROGRESS OF REPAIR & OVER HAUL INSP. COMP BY

FINAL INSPECTION COMPLETED BY

SIGNATURE

TOTAL LABOR

\$2,638.00

TOTAL PARTS

\$3,451.86

SUBLET REPAIRS

\$0.00

SHIPPING

\$146.68

TAX

TOTAL AMOUNT

\$6,236.54

THE AIRCRAFT AND/OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE
WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED
FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION.

SIGNED

Continental Motors Factory Service Ctr

Shop Order:
Acct Number:

CS-1097
3530

Opened: 5/03/2013
Closed:

Sold To: Clinton Aero Maintenance
10501 Piscataway Road
Clinton, MD 20735 United States

| | | | | | | | |
|------------------|---------|---------|-----------|--------|---------------|----------|-----------|
| Aircraft Number: | | N1649M | Type:182P | | S/N: 18264402 | | |
| Eng# | Type | S/N | Time | Cycles | Prop Type | Prop S/N | Prop Time |
| 1 | 0470S2B | 1006677 | 35.0 | | | | |

Discrepancy: 1

Problem:

REPAIR CYLINDER AND VALVE ASSEMBLY'S

Action Taken:

DISASSEMBLED, CLEANED AND EVALUATED TWO (2) CYLINDER AND VALVE ASSEMBLY'S. POLISHED AND REGROUND INTAKE AND EXHAUST VALVES TO 30 AND 45 DEG RESPECTIVELY. REGROUND INTAKE AND EXHAUST SEATS. LAPPED VALVES TO SEATS. REASSEMBLED CYLINDER AND VALVES AND PERFORMED LEAK CHECK. HONED CYLINDER BARRELS TO RING FINISH. TOUCHED UP PAINT ON ASSEMBLY'S. CLEANED AND EVALUATED PISTONS. FIT NEW STD RING SET TO PISTONS AND PLACED IN CYLINDER BARRELS. PREPPED AND PACKAGED ASSEMBLY'S FOR SHIPPING. CUSTOMER PROVIDED WITH NEW CYLINDER GASKET KITS.

Note:

This Discrepancy is covered under warranty.

| Part Number | Description | Credit | Quantity | Units | Unit Price | Extended |
|-------------|--------------------------------------|--------|----------|-------|------------|----------|
| 24802 | Key - Vlv Spr Outer Ret | | 8.00 | Each | | \$ |
| | This part is covered under warranty. | | | | | |
| 646985 | Seal - Int Valve Guide | | 2.00 | Each | | \$ |
| | This part is covered under warranty. | | | | | |
| 649226 | Ring Set - Piston | | 2.00 | Each | | \$ |
| | This part is covered under warranty. | | | | | |
| 646562A1 | Gasket Set - AV 470 SC | | 2.00 | Each | | \$ |
| | This part is covered under warranty. | | | | | |

Totals:

| | |
|----------------------|----|
| SubTotal: | \$ |
| Less Warranty Labor: | \$ |
| Less Warranty Parts: | \$ |
| Charges: | \$ |
| Amount Remaining: | \$ |

Thank you for your business! Have a good flight.

Continental Motors Factory Service Center
8600 County Road 32
Fairhope, Alabama 36532
(251) 990-5080
Fax (251) 990-5294
Repair Station Certificate Number 9CER853B

AUTHORIZED RELEASE
FAA Form 8130-3, AIRWORTHINESS

12 Remarks: Confirmed the return issue.
Replaced keyboard and snapdome for return issue(1).
Replaced pot flex cable for return issues (2&3).
Repaired COM board and installed ECO to correct return issue(4). Updated software to the latest version. Aligned unit for optimum performance.

☐ This unit complies with Mod 1
☐ This unit complies with Mod 2.
☐ This unit complies with Mod 3.
☐ This unit complies with Mod 4.
☐ This unit complies with Mod 5.

This unit complies with Mod 4.
This unit complies with Mod 5.

The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-001111-100, Revision 1, dated 10/1/90, published by Garmin, Inc., 1200 Aviation Services Blvd., Gibsonville, NC 27039, USA.

Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department, 1-800-4-A-GARMIN, P.O. Box 100, Oshkosh, WI 54751 United States.

| Qty | Disc | Unit Price | Extended |
|-----|------|------------|-----------|
| 10 | 50 | 912.50 | \$ 912.50 |
| | | | |
| 10 | | 25.00 | \$ 25.00 |
| | | | |
| | | | \$ 937.50 |
| | | | \$ 937.50 |
| | | | \$ 937.50 |

| | | |
|---|--------------------------------|--------|
| 13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in block 12 | | 14a. |
| 13b. Authorized Signature | 13c Approval/Authorization No: | 14b. |
| 13d. Name (Typed or Printed) | 13e. Date (dd/mmm/yyyy) | 14d. N |
| User/Installer Res | | |

It is important to understand that the existence of this document alone does not automatically constitute authority to install. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different from the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/article(s) from the Airworthiness Authority. Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must be completed by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (02-14)

Textron (Cessna) 182P**Airworthiness Directive
Compliance Report**

Date: 07/12/2022

Tail: N1649M

S/N: 182-64402

Hours: 6208.4

Misc: Tach:516.4
Hobbs:556.9

Engine: Continental O-470-S

S/N: 1006677

Hours: 920.4

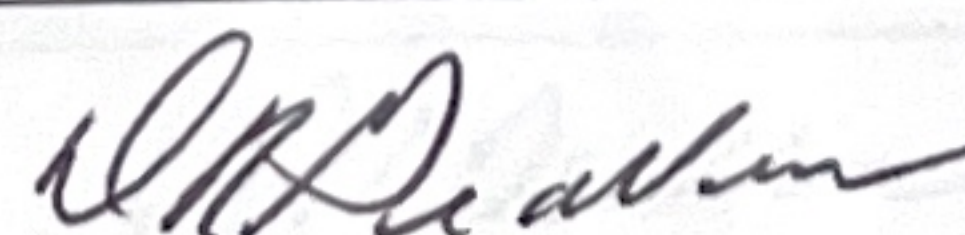
Propeller: McCauley D3A32C(4--) Series

S/N: 150044

Hours: 414.8

Airframe: Textron (Cessna) 182P

| AD# | Category | Subject | Amdt # | Eff Date | Recurring |
|---------------------------|----------|-----------------------------------|---------|------------------------|-----------|
| 71-22-02 | Airframe | Nose Gear Fork Cracks | 39-1327 | 11/09/71 | Yes* |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A by Part No. | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 72-07-09 | Airframe | Fin Spar Attachment Bolts | 39-1988 | 10/17/74 | Yes |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A by Serial No. | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 73-17-01 | Airframe | Fuel Transfer Pump Operation | 39-1701 | 08/16/73 | |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A Not installed | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 73-23-07 | Airframe | Spar Attachment Fitting | 39-1744 | 11/19/73 | |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A by Serial No. | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 75-05-02 | Airframe | Engine Oil | 39-2095 | 02/21/75 | Yes* |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A Not installed | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 75-16-01 | Airframe | Fuel System Placards | 39-2273 | 07/30/75 | |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A by Serial No. | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 76-04-03 | Airframe | Autopilot ARC PA-500A Actuators | 39-2519 | 02/26/76 | Yes |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A Not installed | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 77-02-09 | Airframe | Wing Flap Actuator | 39-2820 | 02/03/77 | |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| Next Due Date/Hours: | | N/A by Serial No. | | Cert#: 1974666 IA | |
| | | Signature | | | |
| 77-04-05 | Airframe | Carburetor Air Intake | 39-2838 | 03/01/77 | |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| 05/05/1982 | | Previously Complied With | | Cert#: 1974666 IA | |
| Next Due Date/Hours: | | Signature | | | |
| 77-12-08 | Airframe | External Ground Power Receptacles | 39-2918 | 06/27/77 | |
| Date/Hours at Compliance: | | Method of Compliance: | | Name: Dan Giallourakis | |
| 01/04/1978 | | Previously Complied With | | Cert#: 1974666 IA | |
| Next Due Date/Hours: | | Signature | | | |

 1974666 IA

EQUIPMENT SERIAL NUMBERS

AIRCRAFT MODFL 182 SERIAL 64402 REGISTRATION 11644M
 ENGINE F 463521 R PROPELLER F 755633 R

AVIONICS

NO.1

NO.2 842

INSTRUMENT
TURN COORDINATOR

17510287

NAV/COM TRANCVR. 8520

TURN & BANK

NAV. INDICATOR

1151

HORIZON GYRO

43579

COMM. TRANCVR.

DIRECTIONAL GYRO

36314

NAV. RECEIVER

SLAVE GYRO

NAV/COM VOLT. CONV.

ALTIMETER

5085

ACCESSORY UNIT

SENS. ALT. F/T DATE

10/16/55

H.F. ANTENNA LOAD BOX

VERT. SPEED IND.

83458

H.F. CONTROL HEAD

AIRSPEED IND.

2314

ADF RECEIVER

10239

CAB. PRESS. GUAGE

ADF LOOP ANTENNA

12857

CAB. RATE OF CHANGE

ADF IND.

10255

ENCODING ALTIMETER

GLIDESLOPE RECEIVER 3631

AUTOPILOT

MKR. BCN. RECEIVER

1656

ROLL ACTUATOR

TRANSPONDER R/T UNIT

6436

PITCH ACTUATOR

DME R/T UNIT

PITCH TRIM ACTUATOR

DME INDICATOR

COMPUTER AMPLIFIER

E. L. T.

157.013

CONTROLLER

1347

OMNI-COUPLER

PITCH TRIM SENSOR

MODE SELECTOR

FLUX DETECTOR

LM 8508



US Department
of Transportation
Federal Aviation
Administration

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

VORTEX

Generators

f) for
each

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to such violation. (49 U.S.C. §46301(a))

| | | | |
|-------------|---|--|--------|
| 1. Aircraft | Nationality and Registration Mark N1649M | Serial No. 182-64402 | Series |
| | Make Cessna | Model 182P | |
| 2. Owner | Name (As shown on registration certificate) David Benton | Address (As shown on registration certificate) Address 1252 Monticello Rd. City Gray State GA Zip 31032 Country United States | |

3. For FAA Use Only

| 4. Type | | 5. Unit Identification | | | |
|--------------------------|-------------------------------------|------------------------|----------------------|--------------------------------|------------|
| Repair | Alteration | Unit | Make | Model | Serial No. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | AIRFRAME | | (As described in Item 1 above) | |
| <input type="checkbox"/> | <input type="checkbox"/> | POWERPLANT | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | PROPELLER | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | APPLIANCE | Type Manufacturer | | |

6. Conformity Statement

| | | | |
|---------------------------------|--|---|----------------|
| A. Agency's Name and Address | | B. Kind of Agency | |
| Name Dan Giallourakis | | <input checked="" type="checkbox"/> U. S. Certificated Mechanic | Manufact |
| Address 155 Lake Wildwood Dr. | | <input type="checkbox"/> Foreign Certificated Mechanic | C. Certificate |
| City Macon State GA | | <input type="checkbox"/> Certificated Repair Station | |
| Zip 31220 Country United States | | <input type="checkbox"/> Certificated Maintenance Organization | |

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

| | |
|--|---|
| Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/> | Signature/Date of Authorized Individual Dan Giallourakis 06/01/2021 1974666 IA |
|--|---|

| | | | | | |
|---|---------------------------------|---------------------------------------|--|---------------------|--|
| Pursuant to the authority given persons specified Administrator of the Federal Aviation Administration are | | | | r prescribed by the | |
| BY | FAA Flt. Standards Inspector | Manufacturer | | adian | |
| | FAA Designee | Repair Station | | | |
| Certificate or Designation No. 1974666 IA | | Signature/Date of Dan Giallourakis | | | |



**MICRO
AERODYNAMICS**

Vortex Generator Technology

Anni Brogan
President

4000 Airport Road, Suite D
Anacortes, WA 98221
(360) 293-8082
(800) 677-2370
(360) 293-5499 FAX
<http://www.microaero.com>
anni@microaero.com



30 N. Gould Street, Suite 7491
Sheridan, WY 82801
Toll Free +1 (888) 465-8038

Cessna 172/182 & 170/180 series Prebuy Examination—Scope and Detail

NOTE: This is a two-phase checklist. Please perform "Phase 1" items first and report results before proceeding with "Phase 2" items. If there are any high-cost issues noted during Phase 1, we may need to terminate the prebuy examination early.

NOTE: Estimated labor hours to complete both phases of this checklist:

- 8-10 hours for normally aspirated airplanes.

PHASE 1

1.1 Operational and Functional Check

- 1.1.1 ✓ Perform "Airplane Operational and Functional" check in accordance with Cessna Airplane Maintenance Manual.

1.2 Engine and Propeller

- 1.2.1 NA Check cylinder compressions hot. Report compression orifice reading, and location of audible air leakage.
- 1.2.2 NA Check cylinder heads for cracks.
- 1.2.3 NA Check pushrod housing seals, cylinder base

36 fu

Compressions

#1 68/80

#2 52/80

#3 62/80

#4 54/80

#5 64/80

#6 73/80

AIRCRAFT PARTS STORE

7403 PHILIPS HWY
JACKSONVILLE, FLORIDA 32256



STORE, LLC
904-998-9101

NOTICE

The installer of this part is responsible for the final determination of airworthiness of this part and the compatibility with other installed equipment or modifications.

| | | | | | | |
|--|-----------------|--|--------------|---|--|--|
| 1. Approving Civil Aviation Authority/Country: FAA / UNITED STATES | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 26349-22 | |
| 4. Organization Name and Address: Concorde Battery Corporation 2009 San Bernardino Rd. West Covina, CA 91790 | | | | | 5. Work Order/Contract/Invoice Number: 38525-04 | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: | |
| 1 | Battery | RG-25XC | 4 | 41248977-41248979 41250480 | New | |
| 2 | Battery | RG-35AXC | 86 | 41251531-41251550 41252866, 41253192 41253193-41253195 41253260-41253262 41253264-41253279 41253281-41253299 41253323, 41253337 41253753-41253767 41253838, 41254141 41254142-41254145 | New | |
| 12. Remarks: | | | | | | |

| | | | |
|--|-----------------|--|--------------|
| 1. Approving Civil Aviation Authority/Country: FAA/United States | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | |
| 4. Organization Name and Address: J.P. Instruments, Inc. 3185-B Airway Ave. Costa Mesa, CA 92626 PT1274NM | | | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: |
| 1 | EDM 900 | 790000-A-5144 | 1 |

at www.concordebattery.com)

☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

Authorized Signature:

14c. Approval/Certificate No.:

Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

Responsibilities

Institute authority to install the aircraft engine/propeller/article.

Is the authority different than the airworthiness authority of the country specified in aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country

Maintenance records must contain an installation certification issued in accordance with the

1 of 3

NSN: 0052-00-012-9005