



Holder Aviation, Inc.
7300 Old Acton Road
Moody, AL 35004
CRS# 9HLR596B

Reg. No.: N9341N
Model: PA-28R-200
W. O. No.: 18-0059

Tach/Hobbs:
Serial No.: 28R-35042

ON OF WORK PERFORMED—
CATE NO. OF PERSON PERFORMING WORK

Tested pitot and static system. Found several leaks in both systems. Repaired leaks. Removed Aspen PFD Internal battery and replaced with new battery. Performed transponder test I A W 14CFR 43 appendix F to comply with 14CFR 91.413. Transponder P/N 066-1062-00 S/N 17408. Aspen Battery changed I A W Aspen Manual No. 900-00003-001 Rev BU.

The aircraft or appliance (s) identified above was maintained and inspected in accordance with current F.A.A. Regulations and was found to be airworthy for return to service with respect to the work performed. Pertinent details of the work are on file at this agency under the above referenced work order number.

Date: 5/8/2018

Signature: _____

Tail # N9341N

Champion Flyers – Shelby Co. Airport (KEET)

DATE: 06/19/2018 TACH: 5528.02 HOBBS: 4507.2 AFTT: 5528.02

Customer requests carpet & seats replaced.

- Removed both front seats and rear seat. Removed existing seat covering, replaced with customer supplied seat covers.
- Removed existing carpet and sound proofing. Installed customer supplied soundproofing and carpet.

I certify this AIRFRAME has been serviced IAW applicable FAA and/or manufacturers technical information and the above aircraft returned to service
Michael L. Henderson A&P _____

Tail # N9341N

Champion Flyers – Shelby Co. Airport (KEET)

DATE: 09/05/2018 TACH: 5546.3 HOBBS: 4529.0 AFTT: 5546.3

Performed Annual AIRFRAME inspection IAW AC43.13-1b, appendix 'D' inspection check list, performed by mechanics listed on Champion Flyers annual check list. Open airframe, inspect & lube control system & hinges, service landing gear & inspect brakes. Inspect & repack all wheel bearings. See attached AD list dated 09/2018 for compliance.

- C/W AD2015-19-07, Inspection of Fuel Injector Lines & Security, per Lycoming Engines MSB 342F dated June 4, 2010, IAW diagram #2. NEXT DUE at Tach +100 hrs.
- C/W AD2017-14-04 Oil & Fuel Line Inspection, and/or Replacement.(8yr, 1000 hr on C53a, Type 'C') Next due at Tach +100 hrs.
- C/W AD2018-07-03 Verificaiton of Fuel Selector Valve Placards and Markings.
- Jack aircraft & perform complete gear operational inspection. All ops found normal, including emergency down.
- Service hydraulic power Pack w/H-5606 fluid. Cycle gear and bleed.
- Replaced air filter element w/new Brackett BA-10.
- Re-lined brakes with 66-106 brake pads.
- Battery box drain tube broken off. Removed battery box, reinstalled drain tube with A4 epoxy, and painted battery box with acid proof paint.
- EGT probe on cylinder #1 inop. Replaced with Grand Rapids 11-09533 EGT probe
- Perform **ELT inspection** IAW FAR 91.207(d).
- ELT battery **EXPIRATION: 08/05/2021.** (15 Digit Hex Code 2DC88 A81D4 FFBFF)
- Remote ELT Switch battery(DURACELL PX28L – 6v) **REPLACEMENT DUE 09/2026(10 YRS).**
- Audio Alert Indicator(AAI) battery(DURACELL CR-2 3v) **REPLACEMENT DUE 09/2026(10 YRS).**
- (12/09/15) Encoder A-30, Ser.# 14900, & Aspen Pro PFD last static/pitot cert by Mid-South Avionics - **DUE 12/2017.**

I certify this AIRFRAME has been inspected IAW an Annual inspection and is airworthy at this time.

Lonnie Moon A&P _____

TOTAL—Carry forward to next page

Tail # N9341N

Champion Flyers – Shelby Co. Airport (KEET)

DATE: 01/16/2019 TACH: 5575.16 HOBBS:4563.8

- Service right strut with nitrogen.
- Charged battery, ops check good.

I certify this AIRFRAME has been serviced IAW applicable FAA and/or manufacturers technical information and the above repair is airworthy at this time.

Lonnie Moon A&P [REDACTED]

[REDACTED]

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page

Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455

Tail #: N9341N S/N: 28R-35042 Tach: 5580.4 Date: 02/14/2019

Serviced right main strut with air per Piper guidelines. Removed right main gear torque link, inspected and reinstalled with new carter key.

Ronald O Murphy A/P [REDACTED]

Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455

Tail #: N9341N S/N: 28R-35042 Tach: 5586.8 Date: 4/17/19

Removed right main landing gear. Disassembled, inspected and reassembled with new o'rings.

Reinstalled right main landing gear, gear retraction test satisfactory.

James D Holt A/P [REDACTED]



Er-Jin Jang
A&P and Avionics Services
Jaars-Townsend Airport (N52)

Reg #: N9341N
Tach: 5596.24

Type: Piper PA-28R-200 S/N: 28R-35042
TTAF: 5596.24

Date: 27 JUN 2019

[Signature]

Removed the following equipment:

Description	Model	Part #	Serial #
Sigtronics Intercom	SPA-400	SPA-400	65225
Genave Marker Beacon	DELTA/303	DELTA/303	84-41
King Transponder	KT-76A	066-1062-00	17408

Installed the following equipment, using the referenced data, where applicable:

Description	Model	Part #	Serial #	Reference	Installation Authority
Garmin Audio Panel	GMA340	011-00401-10	96271116	GMA340 IM Rev. L (Jun 2003)	Minor alteration
Garmin UAT Datalink	GDL82	011-03946-40	4PF003280	GDL82 TSO IM Rev. 5 (Mar 2018)	See notes below
Garmin Mode C Transponder	GTX327	011-00490-00	83733863	GTX327 IM Rev. R (May 2014)	Minor alteration
Aluminum Utility Box	N/A	N/A	N/A	AC43.13-1B	Minor alteration

The GMA340 audio panel is physically located on the top of the LH avionics rack on the instrument panel. The unit is interfaced to the #1 Nav/Com (GNS430W) and #2 Nav/Com (MX12) radios, 4 plcs mic/phone jacks, the cabin speaker, marker beacon, and an auxiliary 3.5mm audio jack, which is physically located on the RH instrument panel. The unit is circuit-protected through a 5A circuit breaker.

The GDL82 ADS-B datalink is physically located inside a custom aluminum tray which itself is located underneath the GTX327 transponder on the RH avionics rack on the instrument panel. The Garmin GNS430W supplies GPS position information for this installation. The GDL82 is also interfaced to an anonymous mode switch and an "ADS-B Fail" annunciator, both of which are located on the faceplate of the aforementioned aluminum tray. The unit is circuit-protected through the existing transponder circuit breaker. The combined load the GTX327 and GDL82 does not exceed 80% of the rated current (5A) of the C/B. The GDL82 was installed under authority of minor alteration and with reference to GDL82 TSO IM Rev. 5 dated 03/2018. Approval to install the GDL82 under "minor alteration" is given by FAA Policy Memorandum, "Installation Approval for ADS-B Out Systems" dated 03/02/2016.

The GTX327 transponder is physically located on the top of the RH avionics rack on the instrument panel. The GTX327 receives encoded altitude information from the existing ACK A-30 encoder via parallel Gillham code.

Installed avionics master switch, Tyco P/N W31-X2M1G-40, in location where the Aspen EFD1000 breakered switch used to be. The power wire for the EFD1000 was relocated to the main circuit breaker panel and reassigned to a 10A Tyco W58-series pull-type circuit breaker on the main bus labelled "PFD." The following equipment are now powered through the avionics switch: GMA340, GNS430W, MX12, GTX327, GDL82, Piper autopilot.

Repaired electric stabilator trim switch on pilot yoke. Operational test of electric trim system OK.

A functional EMI/RFI check was completed and no interference was noted between any of the installed equipment, and each piece of installed equipment performed its intended function. An electrical load analysis was completed and the maximum continuous electrical load is less than 80% of the rated output of the alternator (60A). Issued updated Weight and Balance, dated 27 Jun 2019, to reflect changes described in this logbook entry. All work performed with reference to AC43.13-1B Chapter 11 and AC43.13-2B Chapters 2-3.

Er Jin Jang

A&P [REDACTED]

DATE	IN SERVICE	METER TIME	SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK													
TOTAL brought forward from previous page																
 Er-Jin Jang A&P and Avionics Services Jaars-Townsend Airport (N52)		Reg #: N9341N Tach: 5596.24	Type: Piper PA-28R-200 S/N: 28R-35042 TTAF: 5596.24	Date: 27 JUN 2019 												
The Garmin GNS430W GPS/Nav/Comm, P/N 011-001040-00, S/N 23421903, was repaired at Garmin due to an inoperative main board. Reinstalled GNS430W to aircraft. Operational check of GNS430W OK.																
Er Jin Jang		A&P														
 JAARS JAARS, INC. Box 248, Waxhaw, NC 28173 FAA Repair Station EVGR735D 27 Jun 2019 AFFT: 5596.24 Hour Meter: 5596.24 N9341N Inspected the installation of a Garmin GDL-82 ADS-B Compliant UAT consisting of UAT s/n 4PF003280 interfaced with a Garmin GNS430W as its position source. This installation is a follow on to Garmin STC No. SA02573SE. Reference also Garmin I/M 190-01810-00 Rev. 5 and Garmin STC S.B. 1769 Rev A. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR part 91.227. See Form 337 dated 27 JUN 2019. A copy of the AFMS, p/n 190-01810-12 Rev. 1, was placed in the aircraft. I certify that the transponder inspection required by 91.413 has been performed. <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Model</td> <td style="text-align: center;">s/n</td> <td style="text-align: center;">Certified by</td> <td style="text-align: center;">W.O #</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">DUE</td> </tr> <tr> <td style="text-align: center;">Transponder. GTX 327</td> <td style="text-align: center;">83733863</td> <td style="text-align: center;">EVGR735D</td> <td style="text-align: center;">AVR3161-AA</td> <td style="text-align: center;">06-27-19</td> <td style="text-align: center;">JUN 2021</td> </tr> </table> Details on file under Work Order AVR3161-AA Signed: _____ Repair Station # _____					Model	s/n	Certified by	W.O #	Date	DUE	Transponder. GTX 327	83733863	EVGR735D	AVR3161-AA	06-27-19	JUN 2021
Model	s/n	Certified by	W.O #	Date	DUE											
Transponder. GTX 327	83733863	EVGR735D	AVR3161-AA	06-27-19	JUN 2021											
Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455 Tail #: N9341N S/N: 28R-35042 Tach: 5606.08 Airframe TT: 5606.08 Date: 08/29/2019 Performed annual inspection per AC43.13-1b, appendix D and Piper guidelines. Performed ELT inspection IAW FAR 91.207(d). ELT operational check satisfactory, battery next due 08/2021. C/W AD 2017-16-01, ACK ELT, per visual and operational inspection (next due 08/29/2019). Replaced right fuel drain with new p/n CCA-1550. Replaced right main gear retract rod with new p/n 452-368. Replaced right flap rod-end bolt. Replaced throttle rod-end at servo with new p/n 452-606. Replaced Brackett air filter p/n BA10 to c/w AD 96-09-06 (next due at TACH 5706.08). Replaced vacuum regulator filter p/n ARB3-5-1. Replaced cracked nose gear trunnion with new p/n 67054-803. Replaced nose gear springs with new p/n's 487-483 and 487-484. Replaced trim tab links with two (2) new p/n 6523-000 and new hardware. Jacked airplane, performed retraction tests. All systems function satisfactorily. C/W AD 76-07-12 R1, Bendix Ignition Switch, per Para. 1(a-c), results satisfactory (next due at TACH 5706.08). Lubricated airframe and checked all functionality. All operations satisfactory. I certify this airframe has been inspected in accordance with an annual inspection and was determined to be in airworthy condition James D Holt A/P _____ IA																
Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455 Tail #: N9341N S/N: 28R-35042 Tach: 5633.92 Date: 12/11/2019 Leveled airplane. Rigged stabilator trim per Piper service manual. Ronald O Murphy A/P _____																
SUB-TOTAL this page																
TOTAL—Carry forward to next page																

LOWE AVIATION SERVICES,LLC 2178 FLIGHTLINE DR MACON,GA.31216 ETER699D
LOG ID# 2468 03-February-2020 WO# 3883/1
N9341N S/N 28R-35042 PIPER PA-28R-200 TACH 5649.6

Pg 1 / 1

T/S ALTERNATOR

VERIFIED NO ALTERNATOR OUTPUT DURING GROUND RUN. REMOVED COWLING TO GAIN ACCESS TO ALTERNATOR. FOUND NO VOLTAGE ON ALTERNATOR FIELD WIRE. FOUND NO BUSS VOLTAGE ON FIELD CIRCUIT BREAKER. ALTERNATOR CIRCUIT 60 AMP BREAKER DEFECTIVE, BREAKER OPEN WITH BREAKER IN THE CLOSED POSITION. REMOVED ALTERNATOR CIRCUIT BEAKER AND INSTALLED NEW 60 AMP BREAKER. FUNCTION CHECK CHARGING SYSTEM NORMAL. INSTALLED COWLING. WORK PERFORMED IAW PIPER PA-28R-200 SERVICE MANUAL 753-586 REVISION PR191130 DATED NOVEMBER 19,2019.

T/S G/S ON ASPEN

TROUBLESHOT NO GLIDESLOPE DISPLAY ON ASPEN EFD1000 DURING LPV APPROACHES. REPROGRAM GNS430W TO SEND VNAV LABELS TO EFD1000. SYSTEM RAMP CHECKED OPERATIONAL. WORK DONE IAW ASPEN DOCUMENT # 900-00003-001 REV CA DATED JUNE 2019.

MAINTENANCE RELEASE / RETURN TO SERVICE CRS# ETER699D

THE AIRCRAFT,ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE.

INSPECTOR / AUTHORIZED SIGNATURE

CERTIFICATE #

2/3/2020
DATE

Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455

Tail #: N9341N S/N: 28R-35042 Tach: 5656.59 Date: 3/31/2020

Replaced left main tire tube with new LeakGuard 6.00x6 tube. Replaced nose wheel tire with new Condor 5.00x5 tire. Cleaned, inspected, repacked bearings and reinstalled nose wheel.

James D Holt A/P

DA

Tail # N9341N Champion Flyers – Shelby Co. Airport (KEET)**DATE: 12/07/2017 TACH: 5462.26 HOBBS: 4425.7 AFTT: 5462.26 TSMO: 1100.21**

Perform 50 Hr Engine inspection. Check induction air filters, check for leaks, damage and security of attachment of engine and accessories.

- Warmed engine, drained oil, replaced filter with new CH48111-1 Champion filter.
- C/W Lyc SB460F, Internal Filter Inspection. Cut old filter and found it clean.
- Service engine with 8qts Phillips 20W50 oil.
- Perform post inspection run-up; all temps, pressures and RPM targets are normal.
- Set tire pressures IAW airframe placards.
- Check all exterior lamps. Found landing lamp inop. Troubleshoot system, found broken wire @.lamp.
- Set Rt. main strut to 2-1/4" w/nitrogen.(service cap found slightly loose)
- ELT last inspected 08/07/2017 @ 5406.0(T).

I certify this ENGINE has been serviced IAW applicable FAA and/or manufacturers technical information and the above aircraft returned to service.

Kenneth Miller A&P [REDACTED]

Tail # N9341N Champion Flyers – Shelby Co. Airport (KEET)**DATE: 05/04/2018 TACH: 5514.59 HOBBS: 4490.1 AFTT: 5514.59 TSMO: 1152.4**

Perform 50 Hr Engine inspection. Check induction air filters, check for leaks, damage and security of attachment of engine and accessories.

- Warmed engine, drained oil, replaced filter with new CH48111-1 Champion filter.
- C/W Lyc SB460F, Internal Filter Inspection. Cut old filter and found it clean.
- Serviced engine with 8qts Phillips 20W50 oil.
- Perform post inspection run-up; all temps, pressures and RPM targets are normal.
- Set tire pressures IAW airframe placards.
- Tail nav light inop – relamped with GE1156, ops ck good.
- Landing light inop – T/S to loose terminal. Secured, ops ck good.

I certify this ENGINE has been serviced IAW applicable FAA and/or manufacturers technical information and the above aircraft returned to service.

Michael L. Henderson A&P [REDACTED]

Tail # N9341N Champion Flyers – Shelby Co. Airport (KEET)**DATE: 09/05/2018 TACH: 5546.3 HOBBS: 4529.0 TTIS: 1185.26 TSMO: 1185.26**

Performed Annual ENGINE inspection IAW AC43.13-1b, appendix 'D' inspection check list performed by mechanics listed on Champion Flyers annual check list. Warm engine & remove spark plugs, oil filter & drain oil. Clean, inspect, gap, rotate and reinstall plugs. Inspect and service fuel strainers. Perform post inspection run up; all temps, pressures and RPM targets are normal.

See attached AD list dated 09/2018 for compliance.

- C/W AD2015-19-07, Inspection of Fuel Injector Lines & Security, per Lycoming Engines MSB 342F, dated June 4, 2010, IAW diagram #2. NEXT DUE at Tach +100 hrs.
- Compression check. #1-72/80 #2-74/80 #3-70/80 #4-72/80.
- Service engine serviced w/8qts Phillips 20W50 oil & CH48111-1 filter.
- Perform run-up. No leaks noted, all engine performance pressures & targets reached.

I certify this ENGINE has been inspected IAW Annual inspection and is airworthy at this time.

Lonnie Moon A&P [REDACTED] I/A

Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455

Tail #: N9341N S/N: 28R-35042 Tach: 5580.9 Date: 02/14/2019

Removed #4 cylinder fuel injector, inspected and reinstalled. Replaced propeller governor rod end with new p/n 452-606 and new bolt, washers and carter keys. Operation check satisfactory.

Ronald O Murphy A/P [REDACTED]

SUB-TOTALS this page

Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455

Tail #: N9341N S/N: 28R-35042 Tach: 5606.08 Engine TT: 1245.08 Date: 08/29/2019

Performed annual inspection per AC43.13-1b, appendix D and Lycoming guidelines. Performed compression check, results 1) 74/80 2) 75/80 3) 74/80 4) 75/80. Changed oil and filter. Serviced with 7qts of Phillips 20W-50 oil, Camguard and new filter p/n AA48110-2. Replaced Brackett air filter p/n BA10 to c/w AD 96-09-06 (next due at TACH 5706.08). Cleaned, gapped and inspected all spark plugs. C/W AD 2015-19-07 per visual inspection of lines and security clamps (next due at TACH 5706.08). C/W AD 71-05-02 R4 (02/13/1973) by oil analysis and filter inspection. Washed engine, ran on ground; all operations satisfactory.

I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

James D Holt A/P [REDACTED] IA [REDACTED]

Tail # N9341N

Champion Flyers – Shelby Co. Airport (KEET)

DATE: 09/05/2018 TACH:5546.3 HOBBS:4529.0 PropTT:5546.3 TSPOH:1185.26

Performed Annual PROPELLER inspection IAW AC43.13-1b, appendix 'D' inspection check list, performed by mechanics listed on Champion Flyers annual check list. Perform run-up, check tip tracking, all ground ops appear normal.

- Remove spinner dome, inspect bulkheads & safety wires.
- Perform run-up. No leaks noted, all propeller & governor performance targets reached.

I certify this PROPELLER has been inspected IAW Annual inspection and is airworthy at this time.

Lonnie Moon A&P [REDACTED] A

Murphy Aviation 150 Air Harbor Rd Greensboro, NC 27455

Tail #: N9341N S/N: 28R-25042 Tach: 5606.08 TT: 5606.08 SMOH: 297.07 Date: 08/29/2019

Inspected propeller IAW Piper guidelines.

I certify this propeller has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

James D Holt A/P [REDACTED]

IA [REDACTED]