

N6822U

1982 Cessna 414A

Airframe Logbook

#4 of 4

2012 - 2025

MSN: 414A-0808



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



**AIRFRAME
MAINTENANCE
RECORDS**

Registration No. N6822U

Serial No. 414A0808



AIRFRAME MAINTENANCE RECORDS

Log No. 6

Aircraft Registration No. N6822U

Model 414A

Serial No. 414A0808

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

254/752-8381

FAX 254-752-3307

1-800-445-9713

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| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------|---------------------------|------------------------------|---|
|------|-----------------------|---------------------------|------------------------------|---|

| Date | Total Time In Service | Recording Meter Time |
|---------|-----------------------|----------------------|
| 3-23-12 | 7873.9 | 3257.5 |



RAM Aircraft, Limited Partnership • Waco Regional Airport

Cessna S/N: 414A0808 N6822U

On above referenced aircraft installed RAM overhauled engines L-275424-R and R-290542-R and new Hartzell, ScimitarPlus propellers; left s/n EB7501, right s/n EB7513B. Slick pressurized magnetos p/n 6320 installed per STC SE4651SW-D. Replaced left and right engine EGT probes and leads. Installed red silicone impregnated fiberglass baffle material on each engine. FAA-PMA replacement baffles. C/W AD2000-01-16 by removal of the exhaust system from the slip joints aft. Installed the following exhaust system components:

| Left Engine | P/N | S/N | | Replacement due |
|--------------------|--------------|------------|-------------|-----------------|
| Wye | 1967-1 | I7B47-0003 | Reinstalled | 5-2015/8739.9 |
| Left Elbow | 1995-1 | I5T07-0004 | Reinstalled | 5-2015/8739.9 |
| Elbow Clamp | 2274-60 | N/A | Reinstalled | 5-2015/8739.9 |
| Right Elbow | 1995-2 | I5T09-0003 | Reinstalled | 5-2015/8739.9 |
| Elbow Clamp | 2274-60 | N/A | Reinstalled | 5-2015/8739.9 |
| Wastegate Elbow | 1967-3 | 243 | Reinstalled | 5-2015/8739.9 |
| Wastegate Clamp | NH1009109-10 | N/A | Reinstalled | 5-2015/8739.9 |
| Wastegate Tailpipe | 1967-7 | N/A | Reinstalled | 5-2015/8739.9 |
| Overboard Tailpipe | 9910299-31 | N/A | Reinstalled | 11-2020/9981.3 |
| Tailpipe clamp | 2274-50 | N/A | Reinstalled | 11-2020/9981.3 |
| Left Riser Assy. | K9910295-13 | 211703 | New | N/A |
| Right Riser Assy. | K9910295-14 | 213287 | New | N/A |
| Wastegate | 470908-9012 | 01696 | Overhauled | N/A |
| Turbocharger | 466412-0004 | H-PAL00130 | New | N/A |
| Slip Joint | 1001-3 | N/A | New | 3-2024/10,373.9 |

| Right Engine | P/N | S/N | | Replacement due |
|--------------------|--------------|------------|-------------|-----------------|
| Wye | 1967-1 | I7B47-0004 | Reinstalled | 5-2015/8739.9 |
| Left Elbow | 1995-1 | N/A | Reinstalled | 3-2023/10,223.1 |
| Elbow Clamp | 2274-60 | N/A | New | 3-2024/10,373.9 |
| Right Elbow | 1995-2 | N/A | Reinstalled | 3-2023/10,223.1 |
| Elbow Clamp | 2274-60 | N/A | Reinstalled | 5-2015/8739.9 |
| Wastegate Elbow | 1967-3 | 294 | Reinstalled | 5-2015/8739.9 |
| Wastegate Clamp | NH1009109-10 | N/A | Reinstalled | 5-2015/8739.9 |
| Wastegate Tailpipe | 1967-7 | N/A | Reinstalled | 5-2015/8739.9 |
| Overboard Tailpipe | 9910299-32 | N/A | Reinstalled | 11-2020/9981.3 |
| Tailpipe clamp | 2274-50 | N/A | Reinstalled | 11-2020/9981.3 |
| Left Riser Assy. | K9910295-13 | 213285 | New | N/A |
| Right Riser Assy. | K9910295-14 | 213509 | New | N/A |
| Wastegate | 470908-9012 | KE000344 | Overhauled | N/A |
| Turbocharger | 466412-0004 | H-PAL00133 | New | N/A |
| Slip Joint | 1001-3 | N/A | New | 3-2024/10,373.9 |










C/W para (b) by visual inspection and found to be serviceable. Next visual inspection per para (b) due in 50 hours TIS or 30 calendar days, whichever occurs later. C/W para (c) by removal and visual inspection of exhaust tailpipes and found to be serviceable at this time. Next removal and visual inspection per para (c) due each 12 calendar months. C/W para (d) by inspection of the outboard engine beams and canted bulkheads. Repaired right nacel inboard engine beam per RAM Dwg. 2847, Rev. IR. See 337. Re-inspection per para (d) due each 500 hours TIS. C/W para (e) by visual inspection and pressure test of left and right exhaust systems. System checked satisfactory at this time. Re-inspection per para (e) due each 12 calendar months. Para (f) N/A per no multi-segment V-band clamps installed. C/W para (g) by installing new and/or re-installed existing exhaust system from the slip joints aft. Repetitive compliance due at 2,500 hours TIS or 12 years from date of installation, whichever occurs first. Compliance with para (g) due 3-2024 or aircraft total time of 10,373.9 hours, whichever occurs first. AD2008-08-17 n/a to turbocharger s/n installed at this time per Kelly Aerospace Service Bulletin 030, Rev. A. Installed new Aeroquip integral firesleeved fuel and oil hoses meeting TSO-C53A Type D and TSO-C75 Typelll on each engine. C/W MEB00-9 per installation of p/n 2530-1 vent tube in crankcase breather. Installed new prop de-ice brushes p/n B40189 on right engine. AD96-12-22 N/A to oil filter adapter installed. C/W AD 84-26-02 per replacement of air filters. RAM Aircraft recommends air filters to be replaced every 300 hours or annual with mandatory log entry required. Installed vacuum pump cooling shroud on left and right engine vacuum pumps per STC SA3721SW-D. New empty weight and balance computed. Aircraft is approved for return to service for the work performed. Pertinent details on file under project no. 6104.





Stephen Wade

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

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TOTALS—Carry forward to next page

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------|---------------------------|------------------------------|---|
| | | | |  <p style="text-align: center;">GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> <p>N6822U 7-17-12 HR. MTR.: 3308.0 Replaced LH pressure control valve P/N 3D2363-01 S/N B219260 overhauled by Ametek B & S Aircraft Parts Ref. Tracking No. R12-03350. Replaced RH pressure control valve P/N 3D2363-01 S/N B218260 overhauled by Ametek B & S Aircraft Parts Ref. Tracking No. R12-03351. Installed new de-ice timer P/N 9910285-1 S/N 4347. Replaced right alternator with new P/ ALV-9610 S/N H-M041386. Paralleled both alternators. William Derrick Noble  A&P3561114</p>  |
| | | | |  <p style="text-align: center;">GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> <p>N6822U 12-6-12 HR. MTR.: 3368.1 Replaced left engine oil temp cannon plug at temp. transmitter. Function check good. William Derrick Noble  A&P3561114</p>  |
| | | | |  <p style="text-align: center;">GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> <p>N6822U 1-10-13 HR. MTR.: 3380.5 Replaced NLG actuator P/N 9910139-9 S/N 112. Rigged in accordance with Cessna 414A Maintenance Manual. Ops check good. Timothy K. Stroman  A&P3390266</p>  |
| | | | | <p>SUB-TOTALS this page</p> <p>TOTALS—Carry forward to next page</p> |

| DATE | TOTAL TIME IN SERVICE | WORK |
|------|-----------------------|---|
| | |  <p>GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> |
| | | <p>N6822U 10-22-13 HR. MTR.: 3474.2 Replaced nose landing gear actuator and rigged in accordance with C-414A Maintenance Manual. Gear swing 5 times satisfactory. Timothy K. Stroman A&P3390266 </p> |
| | |  <p>GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> |
| | | <p>N6822U 2-20-14 HR. MTR.: 3504.1 Replaced o'rings and linings in right brake caliper assembly. Replaced linings only in left brake caliper assembly. Bled brake system. Function and leak check good. Timothy K. Stroman A&P3390266 </p> |
| | | <p>FAR 91.411 The Altimeter make <u>UNITED</u> Model <u>S934PA-1</u> and S/N <u>LS69</u> I Certify the static pressure system, altimeter instrument, and Automatic pressure altitude reporting system has been tested And inspected and found to comply with FAR 43 APP.E. Test to <u>35</u> K ft. For details see W.O. <u>6562</u> Inspected by <u>Paul Grimsley</u> Date <u>6-12-2014</u> Sparrow Inspections LLC FAA CRS XX919L 477 Norwood Rd. Mansfield, La. 71052 (318)286-1152</p> |
| | | <p>FAR 91.411 The Altimeter make <u>ARC</u> Model <u>EA 201A</u> and S/N <u>2508</u> I Certify the static pressure system, altimeter instrument, and Automatic pressure altitude reporting system has been tested And inspected and found to comply with FAR 43 APP.E. Test to <u>35</u> K ft. For details see W.O. <u>6562</u> Inspected by <u>Paul Grimsley</u> Date <u>6-12-2014</u> Sparrow Inspections LLC FAA CRS XX919L 477 Norwood Rd. Mansfield, La. 71052 (318)286-1152</p> |

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#1

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

DATE **Sparrow Inspections LLC**

FAR91.413 The Transponder make Garmin

Model GTX330 and S/N 84107336

I Certify the ATC Transponder has been tested and inspected
And found to comply with FAR 43 APP.F.

For details see W.O. 6562

Inspected by _____ Date 6-12-2014

Sparrow Inspections LLC. FAA CRS XX9R919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

previous page

#2

Sparrow Inspections LLC

FAR91.413 The Transponder make ARC

Model RT-459 and S/N _____

I Certify the ATC Transponder has been tested and inspected
And found to comply with FAR 43 APP.F.

For details see W.O. 6562

Inspected by [Signature] Date 6-12-2014

Sparrow Inspections LLC. FAA CRS XX9R919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152



GREGG AIRCRAFT SERVICES, INC.
EAST TEXAS REGIONAL AIRPORT
155 DOVEL ROAD
LONGVIEW, TX 75603
903-643-0980



N6822U 6-18-14 HR. MTR.: 3540.0 AFTT: 8160.1



Performed annual inspection. Complied with AD2001-01-16 Para. (b)(c) and (e). No defects noted. Complied with AD2004-21-05 by pressure decay test of heater and test of combustion air pressure switch. Complied with AD2004-25-16R1 by inspection of heater fuel regulator shut-off valve. Complied with AD84-26-02 by replacement of paper induction air filter. Replaced central vacuum filter. Replaced vacuum regulator filters. Cleaned fuel filters. Paralleled alternators. Replaced nose gear door close ramp. Re-sealed shimmy dampener. Complied with CE-14-11 and MEB88-5 by dye-pen inspection of nose gear trunnions, LH & RH. No cracks noted.

Replaced right main landing gear actuator rod end. Complied with MEB02-12 by installing S1450-5H12-063 washers on each side of main landing gear torque links. Replaced Davtron clock battery P/N 811BATT1. Replaced left wing locker lift strut. Re-attached cable to right precooler door. Re-lamped right nav and right wing ice light.

Secured spoiler hydraulic line support in left wing. Replaced pulled rivets in fairing behind left engine. Replaced fuel cap o'rings. Tightened loose hardware in right aileron yoke. Replaced 2 dome nuts in panel aft of nose gear. Replaced heater combustion air blower P/N CD21402. Ops check. Serviced air conditioner with freon. Ops check good.

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

Timothy K. Stroman
IA3390266 [Signature]

| DATE | TOTAL TIME IN SERVICE |  <p style="text-align: center;">GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p>  <p style="text-align: right;">LOG WORK</p> |
|------|-----------------------|---|
| | | <p>N6822U 12-4-14 HR. MTR.: 3615.8 Replaced right alternator with new unit P/N ALV-9610 S/N H-0100529. Replaced right voltage regulator with overhauled unit P/N B-00296-3 S/N 80D34002. Paralleled alternators. Function check good. Todd Feenstra A&P3013894 <i>Todd Feenstra</i></p> |
| | | <p>N6822U 2-9-15 HR. MTR.: 3626.3 Serviced up new G246 battery S/N G02855052 in accordance with TBP Dwg. No. 1555 Rev. G., and installed. Phillip Guidry A&P3544634 <i>PG</i></p> |
| | | <p>N6822U 7-13-15 HR. MTR.: 3636.2 AFTT: 8256.3 HEATER: 1627.8 Performed annual inspection in accordance with FAR 43 App. (d). Complied with AD2004-25-16R1 by inspection of heater fuel regulating and shut-off valve. Complied with AD2000-01-16 (b) visual inspection. Next due 8-13-15 or TT 8306.3. (c) removed tailpipes, cleaned and inspected. Next due 7-2016. (e) pressure test. Next due 7-2016. (g) by replacing left and right engine wye P/N 1967-1, left elbow P/N A9910377-11, right elbow P/N A9910377-2I and clamps P/N 2274-60, left and right wastegate elbow P/N 1967-3 and clamp P/N 2163-1, left and right wastegate tailpipe P/N 1967-7 and right engine right elbow clamp P/N 2274-60. Removed oxygen bottle for hydrostatic test by Aerospace Turbine Rotables. Next due 7-2020. Reinstalled and serviced. Removed landing gear blowdown bottle and valve assembly for overhaul by Aerospace Turbine Rotables, reinstalled and serviced. Next due 7-2020. Replaced vacuum regulator filters. Re-lamped door warning annunciator. Replaced left and right pre-cooler to dump valve hoses and left pre-cooler to nacelle pressurization ducts. <i>Cont. Next Page</i></p> |

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Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y
LOG ID# 1073 28-July-2016 WO# 3018 SA 20 HOBBS 3689.3
N6822U S/N 414A0808 CESSNA 414A

Removed the following equipment:

- Garmin GA 56 GPS Antenna P/N 011-00134-00
- Garmin GA 56 GPS Antenna P/N 011-00134-00
- Century NSD 360 HSI P/N 520137-2331
- Century Slaving Accessory P/N ID 755
- ARC RT 895A Transponder P/N 42260-1028
- ARC IN 1004A Nav Indicator P/N 46450-0000
- ARC IN 1049C Nav Indicator P/N 46880-2310
- ARC C-1046A ADF Controller P/N 45680-0000
- Airspeed Indicator P/N EA-5173-0216-CES
- King KN 64 DME P/N 066-1088-00
- IVSI P/N C661009-0101
- OAT Indicator P/N 500-23

Installed the following equipment:

- Garmin GA 35 GPS Antenna P/N 013-00235-00
- Garmin GA 35 GPS Antenna P/N 013-00235-00
- Aspen EFD 1000 C3 PFD P/N 910-00001-004
- Aspen EFD 1000 MFD P/N 910-00001-002
- Aspen ACU P/N 910-00004-001
- Aspen RSM P/N 910-00003-001
- Aspen RSM P/N 910-00003-002

Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y
LOG ID# 1073 28-July-2016 WO# 3018 SA 20 HOBBS 3689.3
N6822U S/N 414A0808 CESSNA 414A

- Aspen EBB 58 Battery P/N 413-00002-001
- Aspen Config Module P/N 920-00004-014
- Aspen Config Module P/N 920-00004-002
- Garmin GTX 345 Transponder P/N 011-03302-00

Aspen Evolution 2000 C3 Installation was done as per STC SA10822SC. Garmin GTX 345 Installation was done as per STC SA01714WI. GNS 530W and GNS 430W Installation was done as per STC SA01933LA-D. All equipment installed as per Manufacturer's Instructions and in accordance with AC 43.13-18/28. The following manuals were used for reference: Aspen EFD 1000 Installation Manual P/N 900-00003-001 Rev BH March 2016, and Garmin GTX 345 Installation Manual P/N 190-00734-10 Rev 6 June 2016.

Garmin GNS 530 and Garmin GNS 430 were upgraded to WAAS under Garmin RMA 88343266. Removed GA 56 GPS Antennas and installed GA 35 GPS Antennas. GNS 530W/430W Installation was done as per STC SA01933LA-D.

All wiring meets requirements of AC 43.13-1B chapter 11. Wiring was routed and secured as per AC 43.13-1B chapter 11. Circuit protection was used as per AC 43.13-1B chapter 11. Electrical load does not exceed limits as per AC 43.13-1B chapter 11. Wiring also meets requirements of AC 43.13-2B chapter 2. All installed equipment was checked for EMI interference as per AC 43.13-1B chapter 11. All effected systems were tested accordingly to show compliance with 14 CFR 23.1301.

Recomputed weight and Balance and entered into aircraft records.

FAA Approved Flight Manual Supplement for the Evolution 2000 C3 P/N 900-00008-001 Rev AB March 2016

Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y
LOG ID# 1073 28-July-2016 WO# 3018 SA 20 HOBBS 3689.3
N6822U S/N 414A0808 CESSNA 414A

has been provided to the aircraft owner/operator and must be on board the aircraft for this installation. FAA Approved Flight Manual Supplement for the Garmin GTX 345 P/N 190-00734-15 Rev 2 March 2016 has been provided to the aircraft owner/operator and must be on board the aircraft for this installation. FAA Approved Flight Manual Supplement for the GNS 530W P/N 190-00357-03 Rev E November 2014 has been provided to the aircraft owner/operator and must be on board for this installation. FAA Approved Flight Manual Supplement for the GNS 430W P/N 190-00356-03 Rev E November 2014 has been provided to the aircraft owner/operator and must be on board for this installation.

Continued Airworthiness for this installation should be performed as per attached Instructions for Continued Airworthiness P/N 900-00012-001 Rev Y for the Aspen Evolution 2000 C3 System, P/N 190-00734-11 Rev 4 July 2016 for the Garmin GTX 345 System, P/N 190-00357-65 Rev D November 2014 for the GNS 530W System, and P/N 190-00356-65 Rev D November 2014 for the GNS 430W System. Copies have been provided to the aircraft owner/operator for inclusion into the aircraft maintenance records.

The aircraft/appliance identified above was repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service with respect to work performed.

 7/28/16
5ECR951Y Jerry Hentley Date

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Autopilots Central, Inc.
 3112 North 74th East Avenue
 Hangar 23, Tulsa International Airport - Tulsa, OK 74115
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Autopilots Central, Inc.
 3112 North 74th East Avenue

Sold To: KW Aircraft, LLC
 P.O. Box 628
 Judson, TX 75660

Work Order: AV16-04722
 Acc# Number: (903)399-4078
 Opened: 11/07/2016
 Closed: 11/18/2016

Aircraft Number: N6822U Type: CESSNA 414A S/N: 414A0808
 Eng# Type S/N Time Cycles Prop Type Prop S/N Prop Time

Discrepancy: 1

Action Taken:

Flew a/c on Nov. 9th. Autopilot flew well on HDG and NAV. HDG and NAV were centered on VOR, GPS, and LOC. Checked Nav intercept and they were fine. The autopilot does oscillate in HDG and NAV. It has an intermittent pitch oscillation at times. The altitude alerter levels off 80 to 100 feet above the selected altitude. No flight director indication on the Aspen. Your gear hydraulic pressure light in the annunciation is very dim and hard to see.

Discrepancy: 2

Action Taken:

Removed pitch actuator, pitch actuator mount, computer amplifier, control unit, mode selector and FDI for bench check.

Discrepancy: 3

Action Taken:

PRELIMINARY INSPECTION: Bench tested actuator. Motor bearing bad.
 WORK PERFORMED: Cleaned and lubed motor assembly and replaced bearing. Set torque and overcurrent interlock. Repaired and tested using ARC service manual #7010434-4 change 2 dated 1 November 1983 as a reference.

| Part Number | Description | Credit | Quantity | Units | Unit Price | Extended |
|-------------|-------------|--------|----------|-------|------------|----------|
| SSR-42ZR | Bearing | | 1.00 | Each | | \$ |

Discrepancy: 4

Action Taken:

PRELIMINARY INSPECTION: Bench tested actuator mount. Torque 25-30 in/lbs and ratchety (20 in/lbs). Missing plastic cap.
 WORK PERFORMED: Cleaned capstan and clutch assembly. Replaced 3 clutch discs. Set clutch torque to specs (20 in/lbs). Repaired and tested using ARC service manual #7010434-4 change 2 dated 1 November 1983 as a reference.

| Part Number | Description | Credit | Quantity | Units | Unit Price | Extended |
|-------------|-------------|--------|----------|-------|------------|----------|
| 455030000 | Disc | | 3.00 | Each | | \$ |
| 508420000 | Cap Plastic | | 1.00 | Each | | \$ |

Discrepancy: 5

Action Taken:

PRELIMINARY INSPECTION: Bench tested computer amplifier. Roll PWM erratic around null.
 WORK PERFORMED: Troubleshoot and replaced ABR3, ABR4, ABR7, ABR11, ABR14 and ABR15. Aligned and tested using ARC service manual #7010434-3 change 3 dated 15 July 1986 as a reference.

| Part Number | Description | Credit | Quantity | Units | Unit Price | Extended |
|-------------|-----------------|--------|----------|-------|------------|----------|
| 2595495110 | Diode | | 2.00 | Each | | \$ |
| 2828301220 | 1K Trimmer Pot | | 2.00 | Each | | \$ |
| 2828301230 | 10K Trimmer Pot | | 4.00 | Each | | \$ |

Discrepancy: 6

Action Taken:

PRELIMINARY INSPECTION: Bench tested mode selector. No problem found.
 WORK PERFORMED: Tested using ARC service manual #7010434-4 change 2 dated 1 November 1983 as a reference.

Discrepancy: 7

Action Taken:

Printed: 11/18/2016

Work Order: AV16-04722

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PRELIMINARY INSPECTION: Bench tested control unit. No problem found.
 WORK PERFORMED: Tested using ARC service manual #7010434-4 change 2 dated 1 November 1983 as a reference.

Discrepancy: 8

Action Taken:

Wired Aspen and set up for flight director.

Discrepancy: 9

Action Taken:

Warranty repair.
 Description: Disassembled, cleaned and inspected unit. Cleaned vanes as needed. Reassembled, static balanced and calibrated unit. Functional tested unit IAW manufacturer's specifications. Overhauled unit IAW manufacturer's specifications 86M003. Performed By: DFW Instrument, LLC.

Discrepancy: 10

Action Taken:

Reinstalled pitch actuator, pitch actuator mount, control unit, mode selector, computer amplifier and FDI.

Discrepancy: 11

Action Taken:

Flew aircraft on 11/17/16. Tracked heading, nav and gps. Pitch ok. Flew an ILS approach to runway 18R.

Miscellaneous Charges:

| Totals: | Mac Suppl: IS |
|-----------|---------------|
| SubTotal: | \$ |
| Charges: | \$ |

The articles and/or work hereon described is/are certified airworthy (unless otherwise specified).

Autopilots Central, Inc.
 FAA CRS CM2R747K

Authorized Signature:

Parts installed may be FAA/PMA'd or STC's parts and not of "Original Equipment Manufacture" (OEM) and as such are not covered by the OEM's Warranty.

Printed: 11/18/2016

Work Order: AV16-04722

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YORK

HARTSELL AVIONICS INC. 325 CORPRATE ROAD LONGVIEW, TEXAS 75603 H9TR858J
LOG ID# 284 23-August-2019 WO# 8916/1
N6822U S/N 414A0808 CESSNA 414A

**** ITEM # 8916-1 BIENNIAL TRANSPONDER CERTIFICATION ****

DISCREPANCY: BIENNIAL TRANSPONDER CERTIFICATION

Model: GTX 345 Part#: 011-03302-00 Serial#: 3EG000971

ACTION: PRELIMINARY INSPECTION OKAY. BIENNIAL TRANSPONDER. THE ATC TRANSPONDER WAS TESTED AND INSPECTED IAW FAR 43 APPD F AND FOUND TO COMPLY WITH FAR 91.413. ALSO IAW FAR 43 APPD E PARA C.

**** ITEM # 8916-2 BIENNIAL ALTIMETER CERTIFICATION ****

DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION

Model: EFD 1000 Part#: 910-00001-002 Serial#: 121478R

ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER OUT OF CALIBRATION. ALTIMETER CALIBRATED USING TECHNOTE TN 2009-09 REV. F. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND STATIC LEAK TEST PERFORMED.

**** ITEM # 8916-3 BIENNIAL ALTIMETER CERTIFICATION ****

DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION

Model: EFD 1000 Part#: 910-00001-004 Serial#: 23549

ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER FOUND OUT OF CALIBRATION. ALTIMETER CALIBRATED USING TECHNOTE T 2009-09 REV. F. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND STATIC LEAK TEST PERFORMED.

**** ITEM # 8916-4 BIENNIAL ALTIMETER CERTIFICATION ****

DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION

Model: EA-801A Part#: 43300-6128 Serial#: 2508

ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND STATIC LEAK TEST PERFORMED.

**** ITEM # 8916-5 BIENNIAL ALTIMETER CERTIFICATION ****

DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION

Part#: 5934PA-1 Serial#: L569

ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND STATIC LEAK TEST PERFORMED.

THE ATC TRANSPONDER WAS TESTED AND INSPECTED IAW FAR 43 APPD.F AND FOUND TO COMPLY WITH FAR 91.413 MODEL GTX 345 S# 3EG000971 V.O. # 8916 DATE 8-20-19 INSPECTOR [Signature] HARTSELL AVIONICS, INC. CRS H9TR858J

[Signature]
H9TR858J DAVID HARTSELL

ALTIMETER S# 121478R HAS BEEN TESTED TO 35 KFT IAW FAR 43 APPD. E ON 8-20-19 THE STATIC SYSTEM HAS BEEN TESTED AND COMPLYS WITH FAR 91.411 ON 8-20-19 HARTSELL AVIONICS, INC. INSPECTOR [Signature] DATE 8-20-19 CRS H9TR858J

ALTIMETER S# 23549 HAS BEEN TESTED TO 35 KFT IAW FAR 43 APPD. E ON 8-20-19 THE STATIC SYSTEM HAS BEEN TESTED AND COMPLYS WITH FAR 91.411 ON 8-20-19 HARTSELL AVIONICS, INC. INSPECTOR [Signature] DATE 8-20-19 CRS H9TR858J

ALTIMETER S# 2508 HAS BEEN TESTED TO 35 KFT IAW FAR 43 APPD. E ON 8-20-19 THE STATIC SYSTEM HAS BEEN TESTED AND COMPLYS WITH FAR 91.411 ON 8-20-19 HARTSELL AVIONICS, INC. INSPECTOR [Signature] DATE 8-20-19 CRS H9TR858J

ALTIMETER S# 1569 HAS BEEN TESTED TO 35 KFT IAW FAR 43 APPD. E ON 8-20-19 THE STATIC SYSTEM HAS BEEN TESTED AND COMPLYS WITH FAR 91.411 ON 8-20-19 HARTSELL AVIONICS, INC. INSPECTOR [Signature] DATE 8-20-19 CRS H9TR858J

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3 WORK

GREGG AIRCRAFT SERVICES, INC.
EAST TEXAS REGIONAL AIRPORT
155 DOVEL ROAD
LONGVIEW, TX 75603
903-643-0980

N6822U 12-2-19 HR. MTR.: 3963.0 TTAF: 8583.1
HEATER HOBBS: 1653.0

Performed annual inspection in accordance with FAR 43 Appendix D. Complied with AD2004-25-16R1 by inspection of heater fuel PRSOV. No leaks noted. Complied with AD2016-07-24 by visual inspection of elevator trim tab hardware. AD200-01-16 exhaust inspection as noted in engine logbooks. Replaced PTT switch and re-pinned yoke wiring to spare wires. Ops check good. Cleaned and lubed alternate static valve. Installed used serviceable diode assembly on right alternator, P/N S118335-10. Installed new tailpipes P/N HWS-340414-1 S/N 775 left hand and P/N HWS-340414-2 S/N 779 right hand. Shimmed right torque link. Shimmed right landing gear trunnion fitting. Left landing light repaired by Aircraft Electrical Components, CRS# S7HR883J. P.O.# 281573. Ops check good. Repaired wire at left strobe. Ops check good. Cleaned, treated, primed and painted on top leading edge aft of boots on horizontal stabilizers. Replaced fluid and filter from air conditioning hydraulic system. Replaced left and right hydraulic filters. Replaced vacuum regulator filters. Replaced Aspen EBB58 emergency backup battery P/N 413-00002-001, S/N 2228 and P/N 409-00003-001 internal battery. Next due 12-2-22. Installed halon portable fire extinguisher. Lubed airframe and landing gear. Landing gear swung. ELT tested in accordance with FAR91.207(d). New battery installed. Due Nov. 2021. I certify this aircraft has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.

Timothy K. Stroman
IA3390266



GREGG AIRCRAFT SERVICES, INC.
EAST TEXAS REGIONAL AIRPORT
155 DOVEL ROAD
LONGVIEW, TX 75603
903-643-0980

N6822U 12-2-19 HR. MTR.: 3984.1 TTAF: 8583.1
Hobbs ran while aircraft on jacks 21.1 hours. Above are the corrected times for current hour meter.

Timothy K. Stroman
A&P3390266

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FAR 91.411 The Altimeter make ASPEN
Model EFD 1000 and S/N 23549
I Certify the static pressure system, altimeter instrument, and
Automatic pressure altitude reporting system has been tested
And inspected and found to comply with FAR 43 APP.E.
Test to 30 K ft. For details see W.O. 9044
Inspected by Paul L. Henry Date 9/21/21
Sparrow Inspections LLC FAA CRS XX9R919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

FAR 91.411 The Altimeter make ASPEN
Model EFD 1000 and S/N 121478R
I Certify the static pressure system, altimeter instrument, and
Automatic pressure altitude reporting system has been tested
And inspected and found to comply with FAR 43 APP.E.
Test to 30 K ft. For details see W.O. 9044
Inspected by Paul L. Henry Date 9/21/21
Sparrow Inspections LLC FAA CRS XX9R919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

FAR 91.411 The Altimeter make ARC
Model E801A and S/N 2508
I Certify the static pressure system, altimeter instrument, and
Automatic pressure altitude reporting system has been tested
And inspected and found to comply with FAR 43 APP.E.
Test to 30 K ft. For details see W.O. 9044
Inspected by Paul L. Henry Date 9/21/21
Sparrow Inspections LLC FAA CRS XX9R919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

FAR 91.411 The Altimeter make UNITED
Model 5934PA-1 and S/N 2569
I Certify the static pressure system, altimeter instrument, and
Automatic pressure altitude reporting system has been tested
And inspected and found to comply with FAR 43 APP.E.
Test to 30 K ft. For details see W.O. 9044
Inspected by Paul L. Henry Date 9/21/21
Sparrow Inspections LLC FAA CRS XX9R919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

Sparrow Inspections LLC

FAR91.413 The Transponder make GARMIN
Model GTX 345 and S/N 3EG000971

I Certify the ATC Transponder has been tested and inspected
And found to comply with FAR 43 APP.F.

For details see W.O. 9044
Inspected by Richard Hernandez Date 9/21/21
Sparrow Inspections LLC. FAA CRS XX9R919L

477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

Sparrow Inspections LLC

FAR91.413 The Transponder make GARTIN
Model GTX 330 and S/N 84107336

I Certify the ATC Transponder has been tested and inspected
And found to comply with FAR 43 APP.F.

For details see W.O. 9044
Inspected by Richard Hernandez Date 9/21/21
Sparrow Inspections LLC. FAA CRS XX9R919L

477 Norwood Rd. Mansfield, La. 71052 (318)286-1152



GREGG AIRCRAFT SERVICES, INC.
 EAST TEXAS REGIONAL AIRPORT
 155 DOVEL ROAD
 LONGVIEW, TX 75603
 903-643-0980



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 NO. OF PERSON PERFORMING WORK

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N6822U 10-5-2021 AIRFRAME
HR.MTR.:3992.1
HTR.MTR.:1653.4 TTAF:8591.1

Replaced ELT battery with new P/N: BP1020. Function test in accordance with FAR 91.207(d) satisfactory. Battery next due 09/2023. Hydrostatic test of oxygen bottle accomplished Ref FAA Form 8130-3, CRS NV2R045L, tracking # 500302. Overhaul of oxygen regulator Ref: FAA Form 8130-3, CRS NV2R045L, Tracking # 500303. Hydrostatic test of blow down bottle P/N: 9910154-3, S/N: 24 accomplished, Ref FAA Form 8130-3 CRS NV2R045L, tracking # 500304. Next hydro due 08/2026. Hydrostatic test of left engine fire bottle, S/N:0395A1 accomplished, Ref FAA Form 8130-3 CRS NV2R045L, tracking # 500305. Hydrostatic test of right engine fire bottle, S/N: 00579A1 accomplished, Ref FAA Form 8130-3 CRS NV2R045L, tracking # 500330. New cartridges installed LH & RH P/N: AR13083-5, lot # AEN1-241, load date 07/2021 on RH and

LH. Complied with AD2000-01-06(b), (c), (e) on left and right engine exhaust systems. Replaced left and right engine waste gate clamps with new P/N: 2274-50 due to scheduled time change. Complied with AD2016-17-08 by inspection of elevator trim hardware, satisfactory. Complied with AD2004-21-05 by pressure decay test of heater combustion tube and combustion air pressure switch calibration, satisfactory. Replaced main battery with new P/N: G244, S/N: GO3015336, in accordance with TBP DWG No. 1555, Rev. 1. Replaced crossfeed valve control with new P/N: 9910245-6. Replaced crossfeed valve P/N: 9910201-2 with new surplus unit purchased from Preferred Airparts Inc Ref Material Certification information on Invoice 330876 dated 8-12-2021. Leak check good. Replaced left main landing gear actuator with overhauled exchange unit P/N: 9910136-8, S/N: 541A Ref FAA Form 8130-3 CRS 7AIR6534, tracking # 12625. Function and leak check good. Replaced seals in right main gear uplock in accordance with P/N: 572110-201 seal kit. Replaced both vacuum regulator filters with new P/N: B3-5-1. Replaced right fuel cap lanyard with new P/N: MS27380-3. Replaced left and right fuel cap O-rings P/N: MS29513-338. Replaced two O-rings P/N: 2-010V835-75 in two fuel sump drains in right wing. Replaced fuel sump drain P/N: 79C1 and o-ring P/N: MS29513-020 in left wing. Fabricated left engine outboard exhaust support bracket at firewall heat shield. Replaced core wire in right precooler control. Lubricated

and rigged both LH & RH for proper operation. Replaced landing gear safety switch with new P/N: 1CH1-6. Function test good. Replaced Davtron clock battery with new P/N: 811-BATT. Replaced Schrader valve in right MLG with new P/N: AN6287-1. All work accomplished in accordance with Cessna 414A Maintenance Manual.

Robert E Sutton
 A&P 3194823

Robert E. Sutton

Timothy K Stroman
 A&P 3390266

Timothy K Stroman

Ronald Kampert
 A 3281776

Ronald Kampert

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1. OF PERSON PERFORMING WORK

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GREGG AIRCRAFT SERVICES, INC.
EAST TEXAS REGIONAL AIRPORT
155 DOVEL ROAD
LONGVIEW, TX 75603
903-643-0980



N6822U 10-5-2021 HM: 3992.1 TTA: 8591.1
I certify that this aircraft has been inspected in accordance with
an annual inspection and was found to be in airworthy condition.

Todd Feenstra
A&P 3013894

Todd Feenstra

HARTSELL AVIONICS INC. 325 CORPRATE ROAD LONGVIEW, TEXAS 75603 H9TR858J
LOG ID# 686 25-February-2022 WO# 9289-0
N6822U S/N 414A0808 CESSNA 414A

Pg 1 / 2

**** ITEM # 9289-1 PERFORM INCOMING INSPECTION ****
DISCREPANCY: PERFORM INCOMING INSPECTION ACTION: PERFORMED INCOMING INSPECTION

**** ITEM # 9289-2 BIENNIAL TRANSPONDER CERTIFICATION ****
DISCREPANCY: BIENNIAL TRANSPONDER CERTIFICATION
MODEL: GTX 345 PART#: 011-03302-00 SERIAL#: 3EG000971
ACTION: PRELIMINARY INSPECTION OKAY. BIENNIAL TRANSPONDER. THE ATC TRANSPONDER WAS TESTED AND
INSPECTED IAW FAR 43 APPD F AND FOUND TO COMPLY WITH FAR 91.413. ALSO IAW FAR 43 APPD E PARA C.

**** ITEM # 9289-3 BIENNIAL ALTIMETER CERTIFICATION ****
DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION
MODEL: EFD 1000 PART#: 910-00001-004 SERIAL#: 23549
ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND
STATIC LEAK TEST PERFORMED AND COMPLIES WITH FAR 91.411.

**** ITEM # 9289-4 BIENNIAL ALTIMETER CERTIFICATION ****
DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION
MODEL: EFD 1000 PART#: 910-00001-002 SERIAL#: 121478R
ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND
STATIC LEAK TEST PERFORMED AND COMPLIES WITH FAR 91.411.

**** ITEM # 9289-5 BIENNIAL ALTIMETER CERTIFICATION ****
DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION
MODEL: EA 801 PART#: 43300-6128 SERIAL#: 2508

HARTSELL AVIONICS INC. 325 CORPRATE ROAD LONGVIEW, TEXAS 75603 H9TR858J
LOG ID# 686 25-February-2022 WO# 9289-0
N6822U S/N 414A0808 CESSNA 414A

Pg 2 / 2

ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND
STATIC LEAK TEST PERFORMED AND COMPLIES WITH FAR 91.411.

**** ITEM # 9289-6 BIENNIAL ALTIMETER CERTIFICATION ****
DISCREPANCY: BIENNIAL ALTIMETER CERTIFICATION
MODEL: 5934PA-1 PART#: 5934PA-1 SERIAL#: L569
ACTION: PRELIMINARY INSPECTION OKAY. ALTIMETER WAS TESTED AND FOUND TO MEET FAR 43 APPD. E AND
STATIC LEAK TEST PERFORMED AND COMPLIES WITH FAR 91.411.

**** ITEM # 9289-7 UPDATE DATABASES IN 430w AND 530w ****
DISCREPANCY: UPDATE DATABASES IN 430w AND 530w
ACTION: UPDATED DATABASES IN BOTH CARDS OF BOTH THE GNS530w AND GNS430w

**** ITEM # 9289-8 BIENNIAL TRANSPONDER CERTIFICATION ****
DISCREPANCY: BIENNIAL TRANSPONDER CERTIFICATION
MODEL: GTX 330ES PART#: 011-00455-60 SERIAL#: 84107336
ACTION: PRELIMINARY INSPECTION OKAY. BIENNIAL TRANSPONDER. THE ATC TRANSPONDER WAS TESTED AND
INSPECTED IAW FAR 43 APPD F AND FOUND TO COMPLY WITH FAR 91.413. ALSO IAW FAR 43 APPD E PARA C.

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TOTALS brought forward from pre

N6822U 11/15/2024

- Install Rt mag on Rt engine after check out for E-gap setting.
- Install new Concorde RG24-20 battery.
- Service nose strut.
- Service Rt main strut.
- Install new brake bleeder valve Lt brake caliper.
- Bleed brakes.
- Return to service.



Charles H. Souder
IA3268858A&P

