

### INSTRUCTIONS

This record should be completed and maintained in accordance with FAA Federal Aviation Regulations:

- 91.411 Altimeter system and altitude reporting equipment tests and inspections,
- 91.413 ATC transponder tests and inspections,

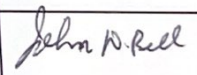


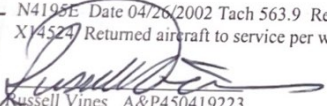
and

43.9, 43.11 and 91.215, and/or other prevailing government regulations.



NOTE: Record required tests in the back of this record  
Record Service Letters and Airworthiness Directives in the back of this record as well as the Airframe Maintenance Record.

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### MAINTENANCE RECORD

DATE 19 <u>99</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
11-8	250	.1	Removed ADF Radio Part# 066-1072-14, Ser# 69888. Replaced with same model KR87, part# 066-1072-14 Ser# 71287. Checked System, good. Return aircraft Back to service! -END-	 AP# 462085248
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 <a href="mailto:parts@howellsaircraft.com">parts@howellsaircraft.com</a></p> </div> <div style="text-align: center;">  </div> </div>				
<p>N4195E Date 04/26/2002 Tach 563.9 Removed comm radios, KX155A. Installed new comm radios, KX155A. Serial #s ON 23303, X/4524 Returned aircraft to service per work performed.</p>				
 Russell Vines A&P450419223				

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19			<p>MAKF Cessna MODEL 182S S/N 18280363 REG NO N4195E WORK ORDER 1370</p> <p align="center">  <b>Aero Tech Services</b>                      4689 Eddie Rickenbacker Drive                      Addison, TX 75001                      Phone: 214-728-9007                 </p> <p align="right">DATE 4/9/2018 A/C TSN: TACH: 19624</p> <p><b>Airframe Entries</b></p> <p>Troubleshoot Turn Coordinator Intermittent... Troubleshoot Turn Coordinator is intermittent and found to be faulty. Removed turn coordinator P/N 1394T100-10RARX S/N D04-10610 for repair by Outside Vendor. Installed overhauled turn coordinator P/N 1394T100-10RARX S/N D04-10610. Function Check Satisfactory.- Replace missing Interior Trim screws.... Replaced 2 Interior screws as needed.- Service Nose Strut... Serviced Nose Strut per Cessna Manual Chapter 12 as needed.</p> <p>The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1370.</p> <p>DATE: 4/9/2018      SIGNED:  #P3058066      Work Order: 1370</p> <p align="right">Printed by EBis 3 (datcomedia.com)</p>	

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19			<p>FLITE ELECTRONICS, INC. 4786 AIRPORT PKWY ADDISON, TX 75001-3363 DG2R767K LOG ID# 5050 09-October-2018 WO# 19035/1 REF# 19035 Document# FL13 AC TT 2251.4 N4195E S/N 18280363 CESSNA 182S</p> <p align="right">Pg 1 / 1</p> <p>**** ITEM # 19035-1 KAP-140 **** DISCREPANCY: Gives pitch trim fail. Model: KAP-140 Part#: n/a Serial#: N/A ACTION: Ramp checked autopilot. System gives constant message "check pitch trim" then fail. Traced problem to bad pitch servo. Removed servo from aircraft (task 2). Reinstalled exchange servo in aircraft. Ramp check of autopilot normal.</p> <p>**** ITEM # 19035-2 KS-270C **** DISCREPANCY: Pitch trim fail. Model: KS-270C Part#: 065-00178-2200 Serial#: 1742 ACTION: Bench checked servo, confirmed problem. Found bad strain gauge output. Replaced servo KS-270C p/n 065-00178-2200 s/n 1742 with factory overhauled exchange servo KS-270C p/n 065-00178-2200 s/n 7966. Servo check normal.</p> <p>The aircraft identified was repaired and/or inspected in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.</p> <p align="center">       10-9-18                      DG2R767K      MARK PLEDGER      Date                 </p>	



MAINTENANCE RECORD

DATE 9 TC IN HOU



**DFW INSTRUMENT, LLC**  
 16445 ADDISON ROAD  
 2<sup>ND</sup> FLOOR HANGAR 2  
 ADDISON, TX 75001

TEL: # 214-217-7600  
 FAX: # 214-217-8307  
 FAA CRS #DZMR112L  
 EASA 145.6555

SIGNATURE,  
 E TYPE  
 ER

MAINTENANCE RECORD

CUSTOMER: MIKE EFTING  
 A/C REG: N4195E      A/C MAKE: CESSNA      MODEL: 182S      A/C S/N: 18280363  
 A/C TOTAL TIME:      A/C TOTAL CYCLE:      HOBBS: 2099.7      TACH: 1871.3

INSTALLED APPAREO STRATUS ESG TRANSPONDER P/N 153410-005017 S/N 071198 WITH ADS-B OUT  
 REF FAA 337 DATED 11/18/2016.

THE TESTS AND INSPECTIONS REQUIRED BY 14 CFR 91.411 HAVE BEEN PERFORMED AND THE EQUIPMENT LISTED BELOW  
 HAS BEEN FOUND TO MEET THE REQUIREMENTS OF 14 CFR 43, APP E.

PILOT ALTIMETER: P/N 5934P-3      S/N 395407      CERT. TO 20 K FT.

THE TESTS AND INSPECTIONS REQUIRED BY 14 CFR 91.413 HAVE BEEN PERFORMED AND THE EQUIPMENT LISTED BELOW  
 HAS BEEN FOUND TO MEET THE REQUIREMENTS OF 14 CFR 43, APP F.

TRANSPONDER #1 P/N 153510-000017      S/N 071198  
 ENCODING ALTIMETER #2 P/N SSD120      S/N 19130

AIRCRAFT IS APPROVED FOR RETURN TO SERVICE FOR THE ABOVE WORK.

INSPECTOR SIGNATURE: *Marcus Culbert*      DATE: 11/18/2016      W/O: DF43240  
 FAA CRS #DZMR112L

MAINTENANCE RECORD

DATE 19 TOTAL IN SER HOURS

FLITE ELECTRONICS, INC. 4786 AIRPORT PKWY ADDISON, TX 75001-3363 DG2R767K  
 LOG ID# 5148 31-January-2019 WO# 19133/1 REF# 19133 Document# FL13 AC TT 2265.0 Pg 1 / 1  
 N4195E S/N 18280363 CESSNA 182S

SIGNATURE,  
 IDENTIFY TYPE  
 & NUMBER

DISCREPANCY: Autopilot Does not pitch down.  
 Model: KAP-140 Part#: n/a Serial#: N/A  
 ACTION: Ramp checked autopilot. Found pitch servo weak and slow to respond. Gained access to pitch servo. Servo responding to up/down commands. Removed pitch servo (task 3) and servo mount (task 2) from aircraft for bench check. Reinstalled servo mount and servo after repair. Autopilot system ramp check normal.

DISCREPANCY: Check slip clutch torque.  
 Model: KM-275 Part#: 065-0030-00 Serial#: 42503  
 ACTION: Bench checked servo mount. Found clutch slipping at approximately 15 in/lbs. Disassembled capstan/servo mount. Cleaned clutch pads. Cleaned housings. Reassembled, set slip clutch torque to 26 in/lbs. Servo mount check normal.

DISCREPANCY: Bench check servo.  
 Model: KS-270C Part#: 056-00178-2200 Serial#: 7966  
 ACTION: Bench checked servo. No problems found. Function check normal.

The aircraft identified was repaired and/or inspected in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.

1-31-19

DG2R767K MARK PLEDGER Date

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19				

**MAINTENANCE RECORD**

**WRISTON AVIATION**

(214) 212-0499  
C.R.S. R2FR683J

Customer Name:	N4195E
Date:	8/16/2019
ALT. P/N:	RFD-1000
ALT. Make:	Ayer
ALT S/N:	24844
CHECKED BY:	<i>[Signature]</i>

W/O# 190813

**ALTIMETER SCALE CORRECTION CARD**

ALTITUDE FEET	ALTIMETER READS UP	TOLERANCE	ALTITUDE FEET	ALTIMETER READS UP	TOLERANCE
-1000	-1010	± 20	12000	11995	± 90
0	-10	± 20	14000	13990	± 100
500	495	± 20	16000	15990	± 110
1000	995	± 20	18000	17990	± 120
1500	1495	± 25	20000	19990	± 130
2000	1995	± 30	22000		± 140
3000	2995	± 30	25000		± 155
4000	3995	± 35	30000		± 180
6000	5995	± 40	35000		± 205
8000	7995	± 60	40000		± 230
10000	9995	± 80	45000		± 255
			50000		± 280

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

R2FR683J

METER AND STATIC  
 RED BY FAR 91.411  
 IN ACCORDANCE WITH  
 ALTIMETER WAS  
 FEET ON 8/13/2019  
 THE TEST ARE ON FILE  
 WORKORDER NO. 190813  
 ID *[Signature]* FOR  
 C.R.S. No. R2FR683J

SPONDER MAKE Ayer  
 21198 AS INSTALLED IN  
 TESTED AS REQUIRED  
 NCE WITH FAR 43  
 8/13/2019 TACH 2066.6  
 E TEST ARE ON FILE  
 ORKORDER NO. 190813  
*[Signature]* FOR  
 C.R.S. No. R2FR683J



Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y  
LOG ID# 1784 10-May-2021 WO# 4435 SA 20  
N4195E S/N 18280363 CESSNA 182S TACH 2187.8

Pg 1 / 2

Removed the following equipment:

King KMA 26 Audio Panel  
King KLN 94 Gps Receiver  
King KX 155A Nav/Com  
King KA 92 Gps Antenna  
SigmaTek 5000B-67 Attitude Indicator

Installed the following equipment:

Garmin GMA 35C Audio Panel P/N 011-02299-40  
Garmin GTN 750XI Nav/Com/Gps P/N 011-04634-00  
Garmin GDL 69A XM Receiver P/N 011-00987-00  
Garmin GA 55 XM Antenna P/N 011-00133-00  
Garmin GA 35 GPS Antenna P/N 013-00235-00  
Garmin GI 275 Electronic Standby Instrument P/N 011-04489-20  
Garmin GMU 11 Magnetometer P/N 011-04349-01  
Garmin GTP 59 Temp Probe P/N 011-00978-00

Garmin GTN 750XI was done as per STC SA 02019SE-D. Garmin GI 275 was done as per STC SA02658SE.  
Garmin GDL 69A Installation was done as per STC SA01487SE-D. All equipment installed as per  
Manufacturer's Instructions and in accordance with AC 43.13-1B/2B. The following manuals were used  
for reference: Garmin GTN 750XI / 650XI Installation Manual P/N 190-01007-C0 Rev 3 March 2021,  
Garmin GI 275 Installation Manual P/N 190-02246-10 Rev 8 April 2021, and Garmin GDL 69A Installation  
Manual P/N 190-00355-02 Rev N February 2020.

Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y  
LOG ID# 1784 10-May-2021 WO# 4435 SA 20  
N4195E S/N 18280363 CESSNA 182S TACH 2187.8

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Recomputed weight and balance and entered into aircraft records.

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.

FAA Approved Flight Manual Supplement for the GTN 750XI P/N 190-01007-C2 Rev 3 December 2020 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 GI 275 P/N 190-02246-12 Rev 4 December 2020 has been provided to the aircraft owner/operator and must be on board the aircraft for this installation.

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.

5/10/21  
5ECR951Y Jerry Huntley

Date

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE
19	HOURS		CERTIFICATE TYPE NUMBER
		<div style="border: 1px solid black; padding: 5px;">                     Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y                      LOG ID# 1843 07-October-2021 WO# 4541 SA 20                      N4195E S/N 18280363 CESSNA 182S TACH 2244.5                 </div>	Pg 1 / 3
		Removed the following equipment: Aspen EFD 1000 Pro PFD P/N 910-00001-001 Aspen Analog Converter Unit P/N 910-00004-001 Aspen Remote Sensor Module P/N 910-00003-001 Aspen Config Module P/N 910-00005-004 King KR 87 ADF Receiver P/N 066-1072-14 King KI 227 ADF Indicator P/N 066-3063-00 King KA 44B ADF Antenna P/N 071-1234-00 King KAP 140 Autopilot Computer P/N 065-00176-5403 King KS 272C Trim Servo P/N 065-00181-2700 King KS 270C Pitch Servo P/N 065-00178-2200 King KS 271C Roll Servo P/N 065-00179-0100 JPI EDM 700 Engine Monitor P/N EGT701-C-F Sigma-Tek Airspeed Indicator P/N EA5175-20PTL-CES Davtron Clock P/N 803 Cessna Tachometer P/N SL1010-004-1-1 Cessna F/F Man Press Indicator P/N MD-180 Cessna Fuel Quantity Indicator P/N FQ4044-12013 Cessna Oil Temp/Press Indicator P/N EG5045-06011 Cessna EGT/CHT Indicator P/N EG2850-04028 Cessna Vac/Amp Indicator P/N EG2707-06014 Turn Coordinator P/N 139T100-10RA Hobbs Meter P/N C664503-0103 TCI SSD 120 Blind Encoder	

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE
19	HOURS		CERTIFICATE TYPE NUMBER
		<div style="border: 1px solid black; padding: 5px;">                     Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y                      LOG ID# 1843 07-October-2021 WO# 4541 SA 20                      N4195E S/N 18280363 CESSNA 182S TACH 2244.5                 </div>	Pg 2 / 3
		Installed the following equipment: Garmin GDU 1060 Display P/N 011-03308-20 Garmin GSU 75 ADAHRS P/N 011-03094-00 Garmin GMU 44 Magnetometer P/N 011-00870-10 Garmin GTP 59 Temp Probe P/N 011-00978-00 Garmin GMC 507 Autopilot Computer P/N 011-04548-01 Garmin GSA 28 Autopilot Servo ( 3 ) P/N 011-02927-11 JPI EDM 930 Engine Monitor P/N 790000C-302 L3 WX 500 Processor P/N 805-11500-001 L3 WX 500 Antenna P/N 805-10930-001 Stratus Charging Port P/N 153010-000122	
		Garmin G500TXI Installation was done as per STC SA02571SE. Garmin GFC 500 Installation was done as per STC SA01866WI. All equipment installed as per Manufacturer's Instructions and in accordance with AC 43.13-1B/2B. The following manuals were used for reference: Garmin G500TXI Installation Manual P/N 190-01717-B3 Rev 12 July 2021, Garmin GFC500 Installation Manual P/N 190-02291-00 Rev 17 February 2021, and L3 WX 500 Installation Manual P/N 002-11503-001 Rev M July 2021.	
		Recomputed weight and Balance and entered into aircraft records.	
		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	



Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y  
LOG ID# 1843 07-October-2021 WO# 4541 SA 20  
N4195E S/N 18280363 CESSNA 182S TACH 2244.5

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DATE	TOTAL IN SE HOURS
19	

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.

FAA Approved Flight Manual Supplement for the G500 TXI P/N 190-01717-B2 Rev 6 July 2021 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 GFC 500 P/N 190-02291-06 Rev 6 September 2020 has been provided to the aircraft owner/operator and must be on board the aircraft for this installation.

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.

*Jerry Huntley* 10/7/21  
5ECR951Y Jerry Huntley Date

SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y  
LOG ID# 1845 07-October-2021 WO# 4541 SA 20  
N4195E S/N 18280363 CESSNA 182S TACH 2244.5

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\*\*\*\*\* IFR CERTIFICATION LOGBOOK ENTRY \*\*\*\*\*  
(PLACE IN AIRCRAFT LOG -- VALID FOR 24 MONTHS)

The aircraft Altimeter was tested to an altitude of 20,000 feet and found to comply with FAR 91.411.

The automatic pressure altitude reporting equipment was tested and found to comply with FAR 91.411.

The ATC Transponder was tested and found to comply with FAR 91.413.

The aircraft static system was tested in accordance with Appendix E of Part 43.

*Jerry Huntley* 10/7/21  
5ECR951Y Jerry Huntley Date

BNAero Services LLC 4148 Greenfield Drive Richardson, TX 75082  
LOG ID# 1844 07-October-2021 WO# 4541 SA 20  
N4195E S/N 18280363 CESSNA 182S TACH 2244.5

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DATE

19

Removed the following equipment:  
Cessna Engine Instrumentation  
Vacuum System  
Standby Vacuum System  
Vacuum Regulator  
Suction Gage  
Air Filter

Installed the following equipment:  
JPI EDM 930 Engine Monitor

EDM 930 Installation was done as per STC SA01435SE. All equipment installed as per Manufacturer's Instructions and in accordance with AC 43.13-1B/2B. The following manuals were used for reference:  
EDM 930 Installation Manual P/N 908 Rev M July 2021.

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.

FAA Approved Flight Manual Supplement for the EDM 930 P/N 930-0001 Rev D March 2016 has been provided to the aircraft owner/operator and must be on board the aircraft for this installation.

BNAero Services LLC 4148 Greenfield Drive Richardson, TX 75082  
LOG ID# 1844 07-October-2021 WO# 4541 SA 20  
N4195E S/N 18280363 CESSNA 182S TACH 2244.5

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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.

*Norman Lindsey* A&P 2817156 7 Oct 2021  
2817156 Norman Lindsey Date

SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

