

Engine Log

Serial #

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature
BROUGHT FORWARD				
3-24-20	Tech	5018.2	Install this engine IO-540-AB2A5 ser. L-28451-48E into Cessna 182 N3537L. Install new engine mount rubbers - install overhauled prop & prop governor. Service with Phillips 20-50 Mineral oil. Ground run up and check RPM - idle - full power. Check oil pressures and temperatures - all OK.	

OIL CHANGE
Date 4-6-20 **Tach** 5042.3
Service with Amsoil 1550
Signature [Redacted]

OIL CHANGE
Date 5-11-20 **Tach** 5068
Service with Phillips 20-50
Signature [Redacted]

OIL CHANGE
Date 6-22-20 **Tach** 5114
Service with Phillips 20-50
Signature [Redacted]

Date 8-3-20 **100hr inspection Tach** 5114 **TSN** 96.
Change oil & filter
B - Check & clean fuel screens - Clean gap & test sparkplugs
A - Check Mags, Starter & Alternator - Check Exhaust system for leaks & cracks
A - Check & lube all engine controls - wash engine & cowl down - run up and leak
check. Repair fuel filter under new element.
S [Redacted]

Compression

1 73 3 77 5 26
2 73 4 74 6 71

OIL CHANGE
Date 8-12-20 **Tach** 5152
Service with Phillips 20-50
Signature [Redacted]

OIL CHANGE
Date 9-23-20 **Tach** 5187.
Service with Phillips 20-50
Signature [Redacted]

Signature must be
mechanic,
date number

Signature to Date:

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

USA N3537C	Oct-27-2020
Nationality and Registration Mark	Date

Removed the existing Sigma-Tek 50008-67 Attitude Gyro & Bendixking KCS 55A HSI System.

The following equipment was installed in the aircraft:

Make	Model	Description	Location	Approval basis/Installation Data
Garmin	G5 Attitude	EFI	Pilot Panel	STC SA01818W1
Garmin	G5 HSI	EFI	Pilot Panel	STC SA01818W1
Garmin	GMU 11	Magnetometer	LH wing Tip	STC SA01818W1
Garmin	GAD 298	Data Bus Converter	RH panel area	STC SA01818W1

The Garmin Dual G5 Electronic Flight Instruments were interfaced to the existing pitot-static system, Garmin GNS 430w Com/Nav/GS/WAAS GPS and Bendixking KAP 140 Autopilot. The Garmin G5 Attitude is protected by a 5 amp CB "ATT" main buss and the G5 HSI and GMU 11 are protected by a 5 amp CB "HSI" and GAD 298 is protected by a 5 amp CB "GAD" both supplied by the avionics buss. The FAA Approved Airplane Flight Manual Supplement for the G5 has been placed aboard the aircraft.

Instructions for continued Airworthiness can be found at www.garmin.com.

Advisory Circulars AC 43.13-18 (Chapters 10, 11, and 12), AC 43.13-28 (Chapters 1, 2, 3 and 11) and AC 20-138A were used as reference as applicable.

Aircraft weight & balance, equipment listing and logbook entries completed to reflect this installation. Reference Cincinnati Avionics Work Order #10431.END

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)						Form Approved OMB No. 2120-0030 11/2020 Electronic Tracking Number For FAA Use Only
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)).						
1. Aircraft	Nationality and Registration Mark USA N3537C		Serial No. 16260966			
	Make CESSNA		Model 162T		Series	
2. Owner	Name (As shown on registration certificate) Flying Neutrons LLC		Address (As shown on registration certificate) Lebanon, OH 45036-0157 USA			
	3. For FAA Use Only					
4. Type						
Repair	Alteration	Unit	Make	Model	Serial No.	
☐	☒	AIRFRAME		(As described in item 1 above)		
☐	☐	POWERPLANT				
☐	☐	PROPELLER				
☐	☐	APPLIANCE	Type			
			Manufacturer			
5. Unit Identification						
6. Conformity Statement						
A. Agency's Name and Address			B. Kind of Agency			
Cincinnati Avionics			U. S. Certified Mechanic			
[Redacted]			Foreign Certified Mechanic			
[Redacted]			☒ Certified Repair Station			
45103 USA			Certified Maintenance Organization			
			Radio Class 1 & 2			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto 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 ☐			Signature/Date of Authorized Individual [Redacted] Scott Cole 27-October-2020			
7. Approval for Return to Service						
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: ☒ Approved ☐ Rejected						
	FAA FR Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport		
BY	FAA Designee	☒ Repair Station	Inspection Authorization	Other (Specify)		
Certificate or Designation No. VTTB380B			Signature/Date of Authorized Individual [Redacted] Scott Cole 27-October-2020			

Cincinnati Avionics [REDACTED] Clermont County Airport Batavia, OH 45103 VYTR380B
LOG ID# 3745 27-October-2020 WO# 10431/1
N3537C S/N 18280966 CESSNA 182T

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**** ITEM # 10431-1. Install GS EFI's A.I. & HSI ****

DISCREPANCY: Install GS EFI's A.I. & HSI
ACTION: Removed existing Bendix/KC's SSA HSI System & SigmaTek 5000B-67 Attitude Gyro. Installed Dual Garmin Electronic Flight Instruments - Attitude Indicator & HSI System. See FAA Form 337 for Return To Service. Removed vacuum system and rewired intercom jacks as requested. Operational check of the system was performed with no discrepancies noted.

Useful Load: 1144.69

Empty Weight: 1955.31

Arm: 37.13

Moment: 72596.91

Performed inspections required by FAR's 91.411 and 91.413 in accordance with FAR 43 Appendixes E and F. No discrepancies noted.

Altimeter Make: United Model: 5934P-3 S/N: 417647 to 20,000 ft.

GS Att Make: Garmin Model: GS S/N: 430044124 to 20,000 ft.

GS HSI Make: Garmin Model: GS S/N: 1CM012915 to 20,000 ft.

Encoder Make: TCI Model: SSD-120 S/N: SRA-100607 to 20,000 ft.

Transponder Make: Garmin Model: 330ES S/N: 84128616.

VYTR380B

For Cincinnati Avionics

