# ENGINE LOG BOOK

## Continental Motors
## Factory Service Center
### Fairhope, Alabama

FAA Repair Station No. 9CER853B

FHP-0050

## Service Information

Consult the Continental Motors website at www.continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine instructions for Continued Airworthiness and Service Bulletins that may be pertinent to your engine model.

If internet access is not available, contact our Factory Service Department at:

- tcm.technical@continentalmotors.aero
- Toll free in the United States
  888-826-5465
- International
  251-436-8299

**USE ONLY FUEL CONFORMING TO ASTM D910**
**USE OF AUTOMOTIVE FUEL IS PROHIBITED**


**Continental Motors, Inc.**
2039 Broad Street
Mobile, Alabama 36615

**Continental Motors, Inc.**
**Factory Service Center**
8600 County Road 32
Fairhope, Alabama 36532


## *Engine Service and Maintenance Record*

| Date | Total Time | | Time Since Last Overhaul | | Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|---|---|---|---|---|---|
| | Hours | Min | Hours | Min | |
| | | | | | **O-540-J3C5D s/n L-20422-40A | 9 Jul 2015 | MOH w/o 14_084 | TT: 2096.7 TSMOH: 0.0:**<br>Disassembled, cleaned & inspected crankcase, accessory housing, oil sump & all internal parts. ***Rejected***: All main & rod bearings, rod nuts & bolts, (1) crank gear bolt, (12) hyd lifters & bodies, (6) rocker shafts, all thrubolts. (1) fuel pump shaft - replaced same w/ new except where noted. ***Magnetic Particle Inspection***: performed on (1) crankshaft gear, (6) connecting rods, (1) idler gear, (1) prop gov dr gear + shaft, (1) prop gov idler gear, (2) oil pump gears, (1) tach shaft, (1) vac pump gear, (1) mag gear, (1) fuel pump gear & (1) oil pump shaft – no defects noted. ***Installed***: (1) Crankcase m/n 813 inspected by ECI [crs AG2R689K] on w/o 141490, (1) crankshaft assy s/n 93840/S224947-1 [rods m03 & mains m03] re-certified by AC Spec [crs DD2R764K] on w/o 224947, (1) new camshaft kit, (1) magneto s/n H-M041674 re-certified by Hartzell Engine Tech [crs 1HZR769B] on w/o M928580,<br>****CONTINUED ON NEXT PAGE*** |
| | | | | | **O-540-J3C5D s/n L-20422-40A | 9 Jul 2015 | MOH w/o 14_084- Continued**<br>and (6) new Lycoming cylinders s/n 115830 | 115146 | 115139 | 116054 | 115830 | 116072 .<br>***Assembled***: Case halves, accessory housing, & sump w/ new main bearings, rod bearings, rod bolts & nuts, nose seal, gaskets, rubber hoses, & seals. Carburetor and vac pump not installed by Graham. Applicable ADs pertinent to this engine model & s/n, with regards to this maintenance evolution, c/w @ time of service..<br><br>**Graham Aircraft Engines, LLC certifies that this engine has been inspected & overhauled IAW applicable Lycoming Engine Overhaul Manual & current FAA regulations & is approved for return to service.**<br><br>Signed _____ for<br>Graham Aircraft Engines, LLC<br>350 W Aviation Way B<br>Newnan, Georgia 30263<br>Certified Repair Station X0GR358Y |
| | | | | | Engine overhaul<br><br>11/16/2015<br><br>Tach Time 5938 7<br>Total Time 2096 7<br>TSMOH 0<br><br>Removed and replaced Engine P/N O-540-L3C5D S/N L-20422-40A see previous logbook entry for details of overhaul Installed overhauled carburetor P/N [illegible] S/N [illegible] new prop governor P/N D-20893-4 overhauled magneto P/N 10-682560-11 S/N H-M041674 new spark plugs and ignition leads new starter P/N 149-NL S/N FNE-011573 weight and balance updated weight reinstalled propeller after inspection due to over speed see prop logbook entry for details Rigged engine controls I A W Cessna AMM Serviced with Aeroshell 100 oil Engine ground run and ops checks good All work I A W Cessna AMM<br><br>David Austin A&P 3635382 |

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| Carried forward → | | | | | |

### General Maintenance

11/17/2015

Tach Time: 5941.2
Total Time: 2099.2
TSMOH: 2.5
Preformed test flight and break-in per Service Instruction No. 1427C. Serviced with 8 QT. Aeroshell 100 and filter AA48103-2
David Austin A&P 3635382
Brandon Butts ATP 3574212

### ANNUAL

1/8/2016

Tach Time: 5971.5
Total Time: 2129.5
TSMOH: 32.8
Cleaned and rotated spark plugs
Oil not service due to break-in service at tach time 5991.2
I certify this engine has been inspected I.A.W an annual inspection and determined to be in an airworthy condition
David Austin I.A. 3635382

### Oil Change

1/18/2016

Tach Time: 5986.2
Total Time: 5986.2
Removed and replace oil filter P/N 48103-2 and service with Aeroshell W100 Plus oil.
David Austin A&P 3635382



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| Carried forward → | | | | | |

### Oil Change

3/3/2016

Tach Time 6032.7
Removed and replaced oil filter P/N 48103-2 serviced with Aeroshell W100 Plus.
David Austin A&P 3635382

### 100 Hour

4/5/2016

Tach Time: 6060.7
Total Time: 2218.7
TSMOH: 122
Preformed compression #1 74/80 #2 74/80 #3 74/80 #4 74/80 #5 76/80 # 74/80
Removed spark plugs cleaned, gapped, rotated and reinstalled
Removed and replaced oil filter 480103-2 and serviced with Aeroshell w100 plus
Removed and replaced air filter
Repositioned alternator cables

Repositioned alternator cables
#2 intake clamp loose Retorqued clamp
Removed and replaced taxi light.
I certify this engine has been inspected I.A.W a 100 hour inspection and determined to be in an airworthy condition
David Austin I.A. 3635382

# Engine Service and Maintenance Record

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|---|---|---|---|---|---|
| Carried forward → | | | | | |
| | | | | | 6/8/2016<br>Tach time: 6104.3<br>Serviced with Aeroshell w 100 plus replaced oil filter AA48103-2.<br>David Austin A&P 3635382 |
| | | | | | 100 hour<br>8/19/2016<br>N737TS<br>Tach time 6156.2<br>Total time 2314.2<br>TSMOH 217.5<br>Preformed compression check #1 77/80 #2 77/80 #3 77/80 #4 77/80 #5 77/80 #6 77/80<br>Cleaned, gapped, and rotated spark plugs<br>Torqued valve cover screws<br>Torqued #2 Cylinder EGT clamp<br>Verified A/D C/W through 2016-16<br>I certify this Engine has been inspected I.A.W. a 100 hour inspection and determined to be in an airworthy condition.<br>David Austin A&P 3635382 |
| | | | | | Oil change<br>10/25/2016<br>N737TS<br>Tach time 6213.5<br>Removed and replaced oil filter P/N 48103-2 serviced with 8 QT of Phillip's X/C 20w-50<br>David Austin A&P 3635382 |



# Engine Service and Maintenance Record

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|---|---|---|---|---|---|
| Carried forward → | | | | | |
| | | | | | Annual<br>12/26/2016<br>N737TS<br>Tach time 6256.0<br>Total time 2414<br>TSMOH 317.3<br>Performed compression check #1 72/8 #2 80/80 #3 76/80 #4 78/80 #5 75/80 #6 78/80<br>Removed and replaced oil filter and serviced with 8 QT Philipp's X/C 20W-50<br>Removed spark plugs cleaned, gapped, rotated and reinstalled<br>Retorqued valve cover hardware<br>Installed oil quick drain P/N S1951-5<br>I certify this Engine has been inspected I.A.W. an Annual inspection and determined to be in an airworthy condition<br>David Austin I.A. 3635382 |
| | | | | | 3/15/2017<br>N737TS<br>Tach Time: 6310.4<br>Serviced oil with 9 QT of Phillip's X/C 20W-50 and replaced oil filter P/N 48103-2<br>David Austin A&P 3635382 |
| | | | | | 100 Hour<br>05/25/17<br>N737TS<br>Tach Time: 6353.6<br>Total Time: 2511.6<br>TSMOH: 414.9<br>Cleaned, gapped and rotated spark plugs.<br>Compression check #1 71 #2 76 #3 76 #4 76 #5 77 #6 75.<br>Removed & replaced oil filter PN: 48103-2 and serviced oil with Phillip's X/C 20W-50.<br>Retorqued all valve covers.<br>Verified A/D's C/W through 05/25/17.<br>I certify this engine has been inspected I.A.W. a 100 Hour inspection and determined to be in an airworthy condition.<br>Lance Howard A&P 3673866 |

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| Carried forward → | | | | | |

08/02/17

N737TS

Tach Time 6403 3

Removed and replaced oil filter AA48103-2 and serviced oil with Phillip's X/C 20W-50

Lance Howard A&P 3673866

10/04/17

N737TS

Tach Time 6426 9

Total Time 2584 9

TSMOH 488 2

Removed magneto P/N 10-682560-11 S/N H-M041674.

500-hour inspection by Kelly Aerospace

A/D 2005-12-06 C/W by R/S 9KJR356C next due tach 6926 9

Reinstalled magneto with new lock hardware and timed to engine.

Ops check good

Removed and replace dry air pump oil seal P/N 06A19956.

Leak check good

David Austin A&P 3635382

Annual

12/06/17

N737TS

Tach Time 6452 2

Total Time 2610 2

TSMOH 513 5

Removed & replaced spark plugs PN URHM38E

Compression check #1 76 #2 71 #3 76 #4 72 #5 74 #6 71

Removed & replaced oil filter PN 48110-2 and serviced oil with Phillip's X/C 20W-50

Verified A/D's C/W through 12/06/17

I certify this engine has been inspected I.A.W. an annual inspection and determined to be in an airworthy condition.

David Austin I.A. 3635382



| Date | Total Time | | Time Since Last Overhaul | | Engine Service and Maintenance Record |
|---|---|---|---|---|---|
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| Carried forward → | | | | | |

04/30/18

N737TS

Tach Time 6508 2

Drained oil, removed & replaced oil filter PN AA48103-2, serviced oil with Phillip's X/C 20W-50

David Austin A&P 3635362

Aerohead, LLC

371 Flave Pierce Road
Mobile, AL 36608
251-604-7804

**7 Sept 2018 N737TS C-182 S/N R18200882 Tach: 6534.8**

Cleaned, inspected, gapped, tested and rotated sparkplugs. Run up and mag check was good.

Maintenance Release

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration's Regulations and is approved for return to service. Pertinent details of the repair are on file at this shop under work order No. 18-3344 , Dated 7 Sept 2018.

Signed Donald A. Ford AP 3015171 IA

100 Hour

11/1/18

N737TS

Tach Time 6551 3

Total Time 6551 3

TSMOH 612 6

Cleaned, gapped and rotated spark plugs

Compression check #1 78 #2 76 #3 75 #4 75 #5 77 #6 78

Removed & replaced oil filter PN 48110-2 and serviced engine with 9qts oil with Phillip's X/C 20W-50

Verified A/D's C/W through 11/1/18

I certify this engine has been inspected I.A.W a 100 Hour inspection and determined to be in an airworthy condition.

John McCain A&P 3364832

# Engine Service and Maintenance Record

| Date | Total Time Hours | Total Time Min | Time Since Last Overhaul Hours | Time Since Last Overhaul Min | Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|---|---|---|---|---|---|
| Carried forward → | | | | | |

02/05/2019 N737TS Engine Log Tach: 6577.6
AFTT: 6577.6 ETT: 2735.6 ETSO: 638.9 PTT: 6577.6 PTSO: 26.3

Performed a 100 Hour Inspection I/A/W FAR Part 43 Appendix D. Changed oil and filter, serviced engine with Phillips X/C 20W50. Replaced all spark plugs. Compression check results were as follows: #1 62, #2 72, #3 68, #4 71, #5 68, #6 63. Replaced all intake gaskets and rocker cover gaskets. Flushed oil cooler. All ground checks on engine were satisfactory.

I certify that this engine has been inspected in accordance with a 100 Hour Inspection and is determined to be in an airworthy condition at this time.

Bryant Hamm A&P 3508729

Coastal Aircraft Services
Gulf Shores, AL

06/04/2019 N737TS Engine Log Entry Tach: 6637.6

C/W an oil and filter change. Serviced engine with Phillips X/C 20W50. Ground checks on engine were satisfactory.

Bryant Hamm A&P 3508729

Coastal Aircraft Services
Gulf Shores, AL



Aerohead, LLC

371 Flave Pierce Road
Mobile, AL 36608
251-604-7804

ENGINE IN ERROR

**25 July 2019 N737TS Cessna R182 S/N R18200882 AFTT: 6674.6 TACH: 6674.6 PropTT: 6674.6 PropTSO: 123.3**
This propeller was inspected IAW Cessna checklist in Cessna R182 Series Service Manual. All repairs were IAW Cessna R182 Series Service & Maintenance Manual and Standard Practices. I certify that this propeller was inspected IAW a 100 hour inspection and has been determined to be in Airworthy Condition.
**Maintenance Release**
The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration's Regulations and is approved for return to service. Pertinent details of the repair are on file at this shop under work order No 19-3572. Dated 10 July 2019
Signed Donald A. Ford AP 3015171 IA

Aerohead, LLC

371 Flave Pierce Road
Mobile, AL 36608
251-604-7804

**25 July 2019 N737TS Cessna R182 S/N R18200882 AFTT: 6674.6 TACH: 6674.6 EngTT: 2832.6 EngTSO: 735.9**
This engine was inspected IAW Cessna checklist in Cessna R182 Series Service Manual. All repairs were IAW Cessna R182 Series Service & Maintenance Manual, Lycoming O-540 publications and Standard Practices. Changed oil and filter. Serviced with 8 quarts Phillips 20W50 and a CH48103-1 oil filter. No metal found in old filter or strainer. Leak check was good. Engine compression check #1 68/80, #2 78/80, #3 72/80, #4 76/80, #5 74/80, #6 72/80. Performed IAW Standard Practices. Cleaned, inspected, gapped, tested and rotated sparkplugs. Removed left exhaust manifold. Repaired hole in left manifold IAW Standard Practices. Installed manifold. Tightened hose clamps on cylinder oil scavenge lines. Replaced oil cooler drain cap with safety hole and safety wired to oil cooler tee fitting. I certify that this engine was inspected IAW a 100 hour inspection and has been determined to be in Airworthy Condition.
**Maintenance Release**
The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration's Regulations and is approved for return to service. Pertinent details of the repair are on file at this shop under work order No 19-3572. Dated 10 July 2019
Signed Donald A. Ford AP 3015171 IA

| | | | | | |
|---|---|---|---|---|---|
| 9/25/19 | | 6702.2 (TACH) | | | ENGINE REMOVED FROM N737TS AND SENT FOR REPAIR. |

A&P 3508729

# Engine Service and Maintenance Record

| Date | Total Time Hours | Total Time Min | Time Since Last Overhaul Hours | Time Since Last Overhaul Min | Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|---|---|---|---|---|---|
| Carried forward → | | | | | |

This engine has been disassembled, cleaned, inspected, and reassembled in accordance with the manufacturer's instructions: Form #: 60294-7 Revision dated July 2011. With respect to the work performed, this engine is airworthy and approved for return to service. Pertinent details of the work accomplished are on file under the following work order.

W/O#: 19_037

Date: 23/Oct/2019

Make/Model: Lycoming / O-540-J3C5D

Serial Number: L-20422-40A

Time in service: TT: 2860.2 / 763.5

PINNACLE AIRCRAFT ENGINES
20421Bohemian Hall Road
Silverhill, AL 36576

Authorized Signature

8PCR980B
Certificate Number

October 9, 2019 HUB: DC290D1F/T4 SN: 140436
Bench checked governor in accordance with McCauley Manual: 780401.
NOTICE: An Airworthiness Directive may apply to the installation of the propeller described hereon. The installer is responsible for ensuring complete compliance with any applicable installation Airworthiness Directive.

Maintenance Release: (Flush Reseal)
The aircraft propeller or appliance identified above was serviced in accordance with Regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the inspection are on file at this repair station under Work Order Number 19-0238.

Signed _____, for AIR PROP SPECIALISTS, INC.
Certificate Number 1X4R274M, 3671 Industrial Park Drive, Marianna, FL 32446



# Engine Service and Maintenance Record

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| Carried forward → | | | | | |
| | | | | | 11/01/2019 N737TS R182 S/N: 18200882 Tach: 6702.2 AFTT: 6702.2 ETT: 2860.2 ETSO: 763.5 PTT: 0.00<br>Installed engine O-540-J3C5D S/N: L-20422-40A after repair by Pinnacle Aircraft Engines, LLC CRS# 8PCR980B. Replaced engine isolator mounts with new. Installed propeller governor after repair by Air Prop Specialists, Inc. Replaced propeller with new Hartzell HC-C3YR-1RF/F8068 S/N: PA1763B I/A/W STC Number SA03078CH. Replaced spinner with new. Flushed oil cooler. Transferred vacuum pump, alternator, exhaust and baffling. Replaced exhaust gaskets, and attaching hardware. Serviced engine with Phillips X/C 20W50 and performed ground runs I/A/W Lycoming service instructions. All ground checks on engine were satisfactory. Aircraft is to be test flown.<br>Bryant Hamm A&P 3508729<br>Coastal Aircraft Services Gulf Shores, AL |
| 11/15/19 | 6727 | 9 | | | C/W AN OIL & FILTER CHANGE. AA48105-2. SERVICED ENGINE WITH PHILLIPS X/C 20W50. LEAK CHECK SATISFACTORY.<br>A&P 3508729 |

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| Carried forward → | | | | | Comp. ① 78/80 ② 77/80 ③ 75/80 ④ 80/80 ⑤ 78/80 ⑥ 80/80 |
| 3-1-20 | T.T. | 6767.4 | | | Cleaned, gapped & tested spark plugs. Lubricated all engine controls and changed engine oil & filter. Serviced engine with 8 qts Phillips 20W50 X/C and new CH103-2 filter. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in an Airworthy Condition |
| | AFTT | 6767.4 | | | Steve H. Anderson A&P/IA 42372003 |
| 4-10-20 | T.T. | 6768.8 | | | Cleaned and gapped plugs. |
| | AFTT | 6770.2 | | | Steve H. Anderson A&P 42372003 |

Engine O540J3C5D l-20422-40A

4/2/21 Tach time 6813.2 total 6811.8 TT SMOH 0.0 Overhauled engine to factory new limits using Direct Drive Overhaul Manual 60294-7. I Completed 100hr inspection. installed engine on Airframe aircraft N737TS. The following yellow tagged overhauled parts were used: Cylinders by Gibson Aviation on W/O 112602- S/N 112602-1 through –6. Crankshaft overhauled by Aircraft Engine and Accessory w/ o 135252, Crankshaft counter weights and propeller bushings installed by Aircraft specialty W/O 264449, Camshaft, Connecting rods, 3 accessory gears, 1 miss. Hardware, 12 hydraulic units overhauled, on W/O264449by Aircraft Specialties Services. Crankcase overhauled on W/O csi-33260 by CSI, See respective Yellow tags in back of log. The following new parts were used, 1 an565b1032h5 Set screw, 2 FT bearing 13884 m6, 6 Main 18D25099 bearing m6, 12 lw13521 Rod bearings m3, 1 1028-bB ball' 6 lw1821 Drain back hoses, 6 71699 Intake hoses, 1 Gasket Set Major Overhaul, 1 std2209 Crank bolt, 12 75061 Rod bolts, 12 lw-12186 nuts, 1 set 61297 / 61296 Oil pump gears, 6 lw-13790 Rocker shafts , 12 lw12892 buttons, 12 72887 Lifters, 2 lw13641 mag cushion, 12 14D23916 Pistons, 6 Ring set nitrated cycl std (ael74241pl,252577cc, 252578cc, 6 sl13444-1 pins, 1 Champion Oil Filter, Repaired and painted baffling replaced all seals Installed 9 quarts Aero shell 80 non det (first 50 hr.) Engine ground run with all normal indication. Above approved for return to service.

Craig Easter A&P 3555683



N7371S YR:1979 Cessna R182 s n R18 '00882
Date: 9-15-2021 Tach: 6828.3
R&R air filter with new PN# BA250.
Carlos E Santos III A&P 3534160
x
ATTITUDE AVIATION, Inc , 299 W. Jack London Blvd, Livermore, CA 94551 Ph 925-456-2276 Email info@attitudeaviation.com

N737TS YR:1979 Cessna R182 s/n R18200882
Date: 1-3-22 Tach: 6830.2
Adjusted Carburetor throttle Arm to increase throw to 2" on throttle. Adjusted microswitch Cam for landing gear warning horn. All work was performed IAW Cessna Service Manuals. Ops Check Good!
Carlos E Santos III A&P 3534160
x
ATTITUDE AVIATION, Inc , 299 W Jack London Blvd, Livermore CA 94551 Ph 925-456-2276 Email info@attitudeaviation.com

Date: 12/20/2022

N737TS 1979 Cessna TR182 SN#R18200882
Tach: 6830.9 Lycoming 0-540-L3C5D s/n L-20422-40A
SMOH: 17.7 ETT: 2988.9 TTAF: 6830.9
Prop: Hartzell 3-Bladed Propeller Part Number: HC-C3YR-1RF/F8068 SN-DY5698B PSMOH 17.7

Inspected IAW FAR43 appendix D Checklist. Compressions #1-75, #2-79, #3-78, #4-78, #5-77, #6-75/80psi.. Drained oil & filled w 7qts. 100 Mineral Oil, Replaced oil filter with new P/N 48103-2. Cut open oil filter and inspected with no abnormal metal particles. Cleaned, gapped, inspected, and spark tested spark plugs. Installed new Scat tubing for Cabin heat and carburetor heat.

500 Hr. Mag Inspection completed by Aero Accessories on Magneto D6LN-3000 PN: 10-682560-11 SN: H-07820 work order #54391
Installed Magneto and timed to engine.

Ops check good!
"I certify this Engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition."
Carlos E Santos III
AP 3534160 IAx
ATTITUDE AVIATION, Inc., 299 W. Jack London Blvd, Livermore, CA 94551 Ph. 925-456-2276 Email: info@attitudeaviation.com

N737TS Engine log

4/23/24 TT 6841.9 Complete 100hr inspection, Compression #1 78/80 #2 80/80 #3 80/80 #4 80/80 #5 80/80 #6 80/80, Repair #5 EGT, Balance propeller . Above approved for return to service.

Craig Easter A&P 3555683

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| Carried forward → | | | | | |
| 09/09/24 | 6848 | 8 | 37 | 00 | N737TS YR:1979 Cessna R182 s/n R18200882<br>Date: 09/09/2024 Tach: 6850.2<br><br>Replaced Cyl#3 and Cyl#6 CHT Probes with new JPI Instruments CHT Bayonet Kit FAA TSO-C43/AS8005 P/N1260.<br>Work was performed IAW Cessna R182 Service Manual.<br><br>John B Reed 2766865 AP x<br>**ATTITUDE AVIATION, Inc.**, 2990 W. Jack London Blvd, Livermore, CA 94551 Ph. 925-456-2276 Email: info@attitudeaviation.com |
| (T.T.E & TACH HAVE DIFFERANCE OF 1.4.) | | | | | |



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