

N80RS
RIGHT ENGINE



CONTINENTAL

A E R O S P A C E T E C H N O L O G I E S

RIGHT
ENGINE
LOG
BOOK

Publication ELB-01

JUN 2019



Return engines for overhaul with this log book to:
Continental Services
Factory Service Center
8600 County Road 32
Fairhope, Alabama 36532 USA



This engine model GTSI0520H2B, serial number 1042536 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.

CONTINENTAL MOTORS, INC.

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 CamScanner™

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

Customer Copy



Form No. QA-85A
(Rev Sept 2014)

Continental Motors

Engine Component Information Sheet

Printed: 12/09/2021

Serial: 1042536

Spec: GTSI0520H2B

New/Rebuilt: (NEW)

Assembled: 12/03/2021

Shipped: / /

Packed: 12/09/2021

Customer Name: AIR POWER, INC

Shipping Address: 4900 SOUTH COLLINS

Component	Serial Number
CAMSHAFT	417096
CRANKSHAFT	N21CA007
CRANKCASE	R21KA162
DRIVE GEAR	376
DRIVEN GEAR	26
CONNROD	AE21FF156CP
CONNROD	AE21FF270CP
CONNROD	AE21FF159CP
CONNROD	AE21GG298CP
CONNROD	AE21GG228CP
CONNROD	AE21GG233CP
L MAGNETO	F21GA018
R MAGNETO	F21LA013
FUEL PUMP	B21AA143
MANIFOLD VALVE	C21IA125
METERING UNIT	A20KA252

Component	Serial Number
STARTER	H-I-202103
STARTER ADAPTER	H-V070971
CONTROLLER	H-XEN00058
OIL COOLER	F21-6474-04
CYLINDER-1	AC21EB002
CYLINDER - 2	AC21EB021
CYLINDER - 3	AC21EA939
CYLINDER - 4	AC21EA891
CYLINDER - 5	AC21EA927
CYLINDER - 6	AC21EA946
NOZZLE - 1	1488
NOZZLE - 2	2488
NOZZLE - 3	3488
NOZZLE - 4	4488
NOZZLE - 5	5488
NOZZLE - 6	6488



Pack Inspection Stamp

All of the information provided herein is subject to verification by the user. Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.

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Carried forward →					

Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with CM standard engine testing specifications as approved by the FAA.

Engine Model GTSIO520H2B

Engine Serial Number 1042536

Testing Completed

Standard Acceptance Test:

Date of Completion DEC 08 2021 Test Operator (Signature)



Form No 98344

Continental Motors, Inc.



THE OIL PRESSURE ON THIS ENGINE WAS ADJUSTED DURING THE ENGINE ACCEPTANCE TEST AT THE FACTORY. ONLY MINOR ADJUSTMENTS MAY BE NECESSARY TO ASSURE THE PROPER INDICATION ON THE COCKPIT GAUGE.

FACTORY SETTINGS:
RPM 2273 OIL TEMP 202 OIL PRESSURE 43-4
OIL PRESSURE PICK UP POINT: MAIN OIL GALLERY
BETWEEN #2 AND #4 CYLINDERS



655305 Rev. C

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

N80RS (Right Engine Logs)

Continental GTSIO-520H2B S/N 1042536

Inspected engine per 100 hr. checklist meeting requirements of FAR 43 App. D. in conjunction with Annual Inspection on

Cessna 421B, s/n 421B0895 this date. Performed post inspection operational checks per FAR43.15 (c)

-Installed this factory "NEW" engine in left side of Cessna 421B s/n 421B0895

With installed components listed on Engine Component Information Sheet #QA-85A 12/09/01.

-Installed Wastegate #470830-9020 s/n H-ZDO00011 and returned to service by Hartzell Engine Technologies (CRS#PQ1383CE-D w.o.# M369330.

-Installed Press. Relief valve #470930-5 s/n EA0137 OVH and returned to service by RAM Aircraft CRS# (VA1R551K) w.o.# 1006960.

-Installed wet vac pump #39207JA s/n 5756 OVH and returned to service by Aircraft Acc. Of Okla. (CRS#TM2R192L) w.o. # 92745R.

-Installed OVH turbo #637374-1 s/n DEL42575 OVH and returned to service by Main Turbo Systems CRS#(MAMR190K) w.o.# 58898.

Replaced broken turbo support bracket with new RAM Aircraft FAA/PMA#2253-4-NP.

-Installed new ALV9610 s/n H-W010796 Hartzell alternator

Installed new cleasotmeric clutch # 646655 and new thrust washer # 658715. Installed Alternator front mount gear drive and Drive Coupling installation per Continental M-O Procedures manual 10-4.1 through 10-4.1.5 (torque to 300-450 inch lbs.) and Hartzel Service Information letter A-140.

-Reinstalled time continued tach generator Globe 22A667 s/n 8629 previously installed 6/10/21 at acft TT 5192.9 current TIS 33.1 hr.

-Installed with new attach bolts AN7-33A, Motor mounts #J-9613-54, lock tabs #MC0851559-1 and torque per Cessna 421B MM requirements. .

-Installed new flex fuel/oil lines with new TSO C53A type D :C75 Type III assy. Fabricated by Herber Aircraft Services (Aeroquip Prod App#PT2084CE)

-Replaced vacuum/air/reference lines with new Mil. H 6000 hose of required size. Installed new oil fitting adapter #630119

-New turbo to fuel control coupler RAM FAA/PMA coupling #1125-6. Replaced Oil temp cannon plug wire strain relief #97-3057-1004.

-Repaired/replaced oil temp and tach gen cannon plugs with new "cannon electrical parts"

-Fabricated fuel spider inlet line from ASTM-A-269-08 SS tubing same a original and installed.

-Inspected/repaired baffling, replaced all flex baffle with new silicon baffle material sealed areas as needed per Continental M-O Manual section 6-4.11.5

Engine Service with new oil filter CH48-111-1 and Phillips 20W50 MINERAL oil. (Next oil change due at 3 months or 25 hr.) at that time oil can be changed to Ashless Dispersant oil of proper viscosity of owners choice.

-Soaked with carbon remover and Cleaned air/oil separator. Pre-oiled engine and turbo as required per Continental "Standard Practice Maintenance Manual" M-O section 5-2.9

-Installed all new spark plugs (Champion RHB32E). installed spark plugs per CMI M-O Manual section 6-4..9.2

-Set engine fuel flow/manifold pressure/RPM per Continental M-O Manual section 6-4.10.2 (SID97-3) and 6-4.7.

-CW AD84-26-02 Effective Date - 01/29/85 Paper induction air filters Installed P10-8421 filter (due again in 500 hr. at acft TT 5726.0)

-AD2020-16-11 eff. 9/21/2020 (GTSIO-520) Cylinder cracks due to remaining slag. (Cessna Service Letter MEL-71-03 and Continental MSB18-08C)

Inspected cylinders and found NA to per Fig. 1 of SB. No further action required.

-AD2007-05-15 eff. 4/16/2007(Supersedes 2005-20-04) (GTSIO520 only) (TCM MSB94-4F) Starter adapter reoccurring inspection

(g) Unscheduled Inspection following engine rough-Running

(h) 100 hr/ or annual Starter drive backlash inspection per MSB94-4F part 2 (max .06") inspection due Acft TT 5326.0 or June 2023

(i) 400 hr. Removal inspection per MSB94-4 Left due TT 5626.0

DATE 6/1/2022 HOBBS 2336.3 AIRCRAFT TOTAL TIME 5226.0 Engine Total time "0"

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

"I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 Hr. INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."



Anthony R. Saxton AP32537461A

Anthony R. Saxton

N80RS (Right Engine Logs)

Continental GTSIO-520H2B S/N 1042536

This entry is to correct wording in Engine Maintenance record entry completed on 6/1/2022.

On the third line of the entry, it was stated "Installed this factory "NEW" engine in left side of Cessna 421B s/n 421B0895"

The record should have read, and is now corrected to state:

"Installed this factory "NEW" engine in right side of Cessna 421B s/n 421B0895"

DATE 3/26/2025 HOBBS: Unreported AIRCRAFT TOTAL TIME: unreported



Anthony R. Saxton AP32537461A

Anthony R. Saxton

FOLEY'S AIRCRAFT

13362 Edinburgh Dr. Westminster, CA 92683

1-562-595-4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: 2357.6
Aircraft TT: 5248.9 Engines: Continental Engine Model#: RH&LH GTSIO-520-H
Engine Serial#:s: RH: 1042536 LH: 1042575 Engine SNEW: RH: 21.3 (6-22-2022) Engine TT:
21.3 Propellers: McCauley Model: 3AF37C516 Ser#s (RH) 170125 (LH) 016433
Propellers SNEW: (RH) 205.2 (2-15-2008) SMOH: (LH) 344.3 (8-8-2016) Propellers TT:
(RH) 205.2 (LH) Unknown

1) (RH Engine) Changed oil and filter. Serviced with Aeroshell 100W plus and
Champion CH48111-1 filter. Cut open filter and inspected. AOA taken. Strained oil per
TCM# 07-01A.

All work done using Cessna and Continental manuals as a reference and guide. I
certify that this aircraft has been inspected and repaired in accordance with current
Federal Aviation Regulations and was determined to be in airworthy condition.

Date: July 19, 2022**Ward Foley, 32476481A****END****FOLEY'S AIRCRAFT**

13362 Edinburgh Dr. Westminster, CA 92683

1-562-595-4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: 2362.7
Aircraft TT: 5254.0 Engines: Continental Engine Model#: RH&LH GTSIO-520-H
Engine Serial#:s: RH: 1042536 LH: 1042575 Engine SNEW: RH: 27.9 LH: 27.9 (6-22-2022)
Engines TT: 27.9

1) (RH Engine) CW AD 2022-16-03. Removed LH mag Pt# 10-349220-4 Ser#
F21GA018. Installed Pt# 10-349220-4 Ser# F22FA056 Timed per TCM SB# 94-8D.

All work done using Cessna and Continental manuals as a reference and guide. I
certify that this aircraft has been inspected and repaired in accordance with current
Federal Aviation Regulations and was determined to be in airworthy condition.

Date: Aug.15, 2022**Ward Foley, 32476481A****END**

FOLEY'S AIRCRAFT

13362 Edinburgh Dr. Westminster, CA 92683

1 562 595 4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: 7.6
Aircraft TT: 5281.9 Engines: Continental Engine Models #: RH&LH GTSIO-520-H
Engine Serial#s: RH: 1042536 LH: 1042575 Engine SNEW: RH: 55.8 LH: 55.8 (6-22-2022)
Engines TT: 55.8

Propellers: McCauley Models: RH&LH 3AF37C516 Ser#s: RH 170125 LH 016433

Propeller SNEW: RH 238.2 (2-15-2008) SMOH: LH 377.3 (8-8-2016)

Propellers TT: RH 238.2 LH Unknown

1) RH Engine: Changed oil and filter. Serviced with aeroshell 100W plus and Champion CH48111-1 filter. Cut open filter and inspected. AOA taken. Strained oil per TCM SB# 07-01A.

2) Removed turbo controller pt# 633388-9 Ser# H-XEN00058. Installed pt# 470836-9003 Ser# XAO00021, see 8130 (Main Turbo).

All work done using Cessna and Continental manuals as a reference and guide. I certify that this aircraft has been inspected and repaired in accordance with current Federal Aviation Regulations and was determined to be in airworthy condition.

Date: Jan 19, 2022

Ward Foley, 32476481A

END

FOLEY'S AIRCRAFT

13362 Edinburgh Dr. Westminster, CA 92683

1-562-595-4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: Tach 10.6
Aircraft TT: 5284.9 Engines: Continental Model #s: GTSIO-520-H
Engine Serial#s: (RH) 1042536 (LH) 1042575 Engine SNEW RH: 58.8 LH: 58.8 (6-22-2022)
Engines TT: 58.8

1) CW AD 2023-05-16 Crankshaft Assy. counter weight retaining rings, per TCM MSB#23-01A on RH&LH engines.

2) AD 2023-02-12 Superior Air Parts intake valves NA per SAP MSB#22-01A (No superior valves installed).

All work done using Cessna and Continental manuals as a reference and guide. I certify that this aircraft has been inspected and repaired in accordance with current Federal Aviation Regulations and was determined to be in airworthy condition.

Date: Apr. 5, 2023

Ward Foley, 32476481A

END

Total Time

Time Since Last
Overhaul**Engine Service and Maintenance Record****FOLEY'S AIRCRAFT**

13362 Edinburgh Dr. Westminster, CA 92683

1-562-595-4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: 51.8

Aircraft TT: 5326.1 Engines: Continental Engines RH&LH Models:

GTSIO-520-H Ser#s: (RH) 1042536 (LH) 1042575 Engines SNEW: (RH) 100.0 (LH)

100.0 (6-22-2022). Engines TT: 100.0 Propellers: McCauley Models: RH&LH

3AF37C516 Ser#s (RH) 170125 (LH) 016433 Propeller SNEW: (RH) 282.4
(2-15-2008) SMOH: (LH) 421.5 (8-8-2016) Propellers TT: (RH) 282.4 (LH) Unknown

- 1) RH Engine Changed oil and filter. Serviced with Aeroshell 100W plus and Champion CH48111-1 filter. Cut open filter and inspected. CW TCMCSB# 07-01A strained oil. Oil sample taken.

All work done using Cessna and Continental manuals as a reference and guide. I certify that this aircraft has been inspected and repaired in accordance with current Federal Aviation Regulations and was determined to be in airworthy condition.

Date: Dec.13, 2023**Ward Foley, 32476481A****END****FOLEY'S AIRCRAFT**

13362 Edinburgh Dr. Westminster, CA 92683

1-562-595-4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: 66.5

Aircraft TT: 5340.8 Engines: Continental Model (RH&LH): GTSIO-520-H

Engines Serial #s: (RH) 1042536 (LH) 1042575 Engines SNEW: (RH&LH) 114.7

(6-22-2022) Engines TT: (RH&LH) 114.7 Propellers: McCauley Model: (RH&LH)

3AF37C516 Serials#: (RH) 170125 (LH) 016433 Propeller SNEW: (RH) 297.1

(2-15-2008) (SMOH): (LH) 436.2 (8-18-2016) Propeller TT: (RH) 297.1 (LH)
Unknown

- 1) (RH) Engine changed oil and filter. Serviced with aeroshell 100W plus and Champion CH48111-1 filter. Cut open filter and inspected. CW TCM CSB# 07-01A strained oil. Oil sample taken.

All work done using Cessna and Continental manuals as a reference and guide. I certify that this aircraft has been inspected and repaired in accordance with current Federal Aviation Regulations and was determined to be in airworthy condition.

Date: March 19, 2024**Ward Foley, 32476481A****END**

FOLEY'S AIRCRAFT

13362 Edinburgh Dr., Westminster, CA 92683, 1-562-595-4264

Airframe: Cessna Model: 421B Serial #: 0895 N80RS Hobbs: 81.3 Aircraft TT: 5375.0 Engines: Continental Engine Models #: GTSIO-520-H Engine Serial #: (RH) 1042536 (LH) 1042575 Engines SNEW: (RH) 148.9 (LH) 148.9 (6-22-2022). Engines TT: 148.9 Propellers: McCauley Models: RH&LH 3AF37C516 Propeller Ser#: (RH) 170125 (LH) 016433 (RH) Propeller SNEW: 331.3 (2-15-2008) (LH) Propeller SMOH: 470.4 (8-8-2016) Propeller TTs: (RH) 331.3 (LH) Unknown

This (RH) engine was inspected and serviced in accordance with Cessna and Continental service manuals. The following work was performed: Changed oil filter. Serviced with Aeroshell 100W plus and Champion CH48111-1 filter. Cut open filter and inspected. CW TCM CSB# 07-01A strained oil. Performed compression test per TCM SB# 948A using 0.060 orifice tester per AC4313-1B, paragraph 8-14(B)-1: #1) 77/80; #2) 78/80; #3) 79/80; #4) 79/80; #5) 76/80; #6) 75/80. Performed bore scope inspection per TCM SB# 03-3. Replaced spark plugs. Installed Tempest URHB32Es, RH&LH engines. Check mag timing per TCM SB# 948E, 500hr mag inspection RH&LH **Due at Hobbs 451.4**. Cleaned and inspected fuel metering unit finger screen. Inspected and pressure tested exhaust system. Inspected all fuel and oil hoses. Inspected and checked engine control cables per TCM SB#95-2, lubed as needed. Inspected engine mounts. PCW AD 2023-05-16 Crankshaft assemblies - counterweight retaining snap rings per TCM SB# 23-01A. AD 2023-02-12 Superior Air Parts cylinder assemblies or intake valves installed, N/A per SAP MSB# 22-01A, Not installed. PCW AD 2022-16-03 TCM mags roller bearings. CW AD 2007-05-25 Starter adapter assemblies RH&LH, per TCM# 94-46, part 2 Visual inspection, **Due every 100hrs**, part 3 **Due at hobbs 351.4 every 400hrs**. See AD list for all current ADs. Wash engine and test run. I certify that this engine has been inspected and repaired IAW FAR43, Apex D using current Cessna and Continental service manuals as a checklist and guide. I certify this engine has been inspected and repaired with a 100hr Inspection and current Federal Aviation Administration Regulations and was determined to be in airworthy condition.

Date: June 21, 2024

Ward Foley, 32476481A

END

FOLEY'S AIRCRAFT

13362 Edinburgh Dr., Westminster, CA 92683

1-562-595-4264

Airframe: Cessna Model #: 421B Ser#: 0895 N80RS Hobbs: 123.8 Aircraft TT: 5398.1 Engines: Continental Model: (RH&LH): GTSIO-520-H Engines Serial #: (RH) 1042536 (LH) 1042575 Engines SNEW: (RH&LH) 172.0 (6-22-2022) Engines TT: (RH&LH) 172.0 Propellers: McCauley Model: (RH&LH) 3AF37C516 Serial#: (RH) 170125 (LH) 016433 Propeller SNEW: (RH) 354.4 (2-15-2018) Propeller SMOH (LH) 493.5 (8-18-2016) Propeller TTs: (RH) 354.4 (LH) Unknown

1) (RH) Engine changed oil and filter. Service with Aeroshell 100W plus and Champion CH48111-1 filter. Cut open filter and inspected. CW TCM CSB# 07-01A Strained oil. Sample taken.

All work done using Cessna and Continental manuals as a reference and guide. I certify that this aircraft has been inspected and repaired in accordance with current Federal Aviation Regulations and was determined to be in airworthy condition.

Date: Jan. 14, 2025

Ward Foley, 32476481A

END

