

Service Information

Consult the Continental Motors web site at 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 documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at:

██████████ Toll free in the United States or
██████████ International

Engine Returns

Return engines for core credit with this log book to:

Continental Motors, Inc.

██████████
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:

Continental Motors, Inc.

Factory Service Center

██████████
Fairhope, Alabama 36532 USA

**USE ONLY FUEL SPECIFIED IN OPERATOR'S
MANUAL OR TYPE CERTIFICATE DATA SHEET
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors

FAA PRODUCTION CERTIFICATE NO. ██████████

Printed:07/18/2016

Test Date07/18/2016

This engine model TSI0520R11B, serial number 1032649 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.

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CONTINENTAL MOTORS, INC.

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 479121				
4. Organization Name and Address Continental Motors, Inc. [REDACTED] Mobile, Alabama 36615					PC #508		5. Work Order/Contract/Invoice Number: EPN 536197 Carton 0000206717			
6. Item:	7. Description	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:					
1	ENGINE - NEW	TSIO520R11	1	See Block 12	NEW					
12. Remarks: Airworthiness Approval - Engine Total Time: 0 Preservation: This Engine was treated 07/18/16 for one hundred eighty days corrosion protection. Serial/Batch Number(s): <table><tr><td><u>Serial</u></td><td><u>Description</u></td></tr><tr><td>1032649</td><td>ENGINE - NEW</td></tr></table>							<u>Serial</u>	<u>Description</u>	1032649	ENGINE - NEW
<u>Serial</u>	<u>Description</u>									
1032649	ENGINE - NEW									
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 12.			13b. ☐ Title 14 CFR 43.3 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.							
13b. Authorized Signature: [REDACTED]		13c. Approval/Authorization No.: [REDACTED]		14b. Authorized Signature: [REDACTED]		14c. Approval/Certificate No.: [REDACTED]				
13d. Name (Typed or Printed): Thomas Wells		13e. Date (dd/mmm/yyyy): 18/Jul/2016		14d. Name (Typed or Printed): [REDACTED]		14e. Date (dd/mmm/yyyy): [REDACTED]				
User/Installer Responsibilities										
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.										
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.										
Statements in Blocks 13a and 14a do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown										



Continental Motors

Engine Component Information Sheet

Printed: 07/18/2016

Serial: 1032649

Assembled: 07/14/2016

Spec: TSI0520R11B

Shipped: / /

New/Rebuilt: (NEW)

Packed: 07/18/2016

Customer Name: ROBERT DONAHUE

Shipping Address: [REDACTED]

Component	Serial Number
CAMSHAFT	311070
CRANKSHAFT	N16DA161
CRANKCASE	R16CA040
CONNROD	AE16EA355
CONNROD	AE16EA352
CONNROD	AE16EA362
CONNROD	AE16EA285
CONNROD	AE16EA360
CONNROD	AE16EA359
L MAGNETO	F16EA302
R MAGNETO	F16EA258
FUEL PUMP	B16FA174
MANIFOLD VALVE	C16FA044
METERING UNIT	A16EA054
STARTER	H-S-271608
CYLINDER-1	AC16EC377

Component	Serial Number
CYLINDER - 2	AC16EB543
CYLINDER - 3	AC16EC294
CYLINDER - 4	AC16EC413
CYLINDER - 5	AC16EC411
CYLINDER - 6	AC16EC304
NOZZLE - 1	1284
NOZZLE - 2	2284
NOZZLE - 3	3284
NOZZLE - 4	4284
NOZZLE - 5	5284
NOZZLE - 6	6284

Pack Inspection Stamp [REDACTED]

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.

General Aviation Modifications, Inc.

Ada, OK 74820

www.gami.com

MANUFACTURER RELEASE CERTIFICATE

KIT NO. GT14B

Product Name: turboGAMIjectors®
Fuel Injection Nozzles

STC No. SE09289SC
FAA-PMA

P/N: <u>GA199</u>	Qty. <u>1</u>	Installation Location Cylinder: <u>1</u>
P/N: <u>GA199</u>	Qty. <u>1</u>	Installation Location Cylinder: <u>2</u>
P/N: <u>GM186</u>	Qty. <u>1</u>	Installation Location Cylinder: <u>3</u>
P/N: <u>GM186</u>	Qty. <u>1</u>	Installation Location Cylinder: <u>4</u>
P/N: <u>GF176</u>	Qty. <u>1</u>	Installation Location Cylinder: <u>5</u>
P/N: <u>GF176</u>	Qty. <u>1</u>	Installation Location Cylinder: <u>6</u>

Applicable to:

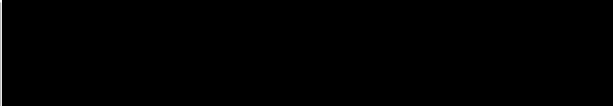
Engine Manufacturer: Continental Motors

Engine Model: TSIO-520-R

turboGAMIjectors® Kit No: GT14B

S/N: 25590

THE AERONAUTICAL PRODUCT DESCRIBED HEREON CONFORMS TO
APPROVED TYPE DESIGN AND IS IN A CONDITION FOR SAFE OPERATION


GAMI AUTHORIZED INSPECTOR

Date: 13-Jul-2016

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	

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 TT: ~~4932.4~~ ^{5262.8} TSO: 0 Date 8/18/16

- Installed engine on N1925U using new attach hardware. All new fluid hoses and scat tubing was installed. The exhaust and wastegate were overhauled. A new oil cooler was installed. The factory fuel injectors were removed and GAMI injectors were installed. The prop governor was Overhauled and reinstalled. All of the metal baffles were cleaned, repaired and painted. All rubber baffle seals were replaced with new seal. 12 Qts of Phillips 20-50 Mineral oil were added. Functional and leak check satisfactory.

I certify that this Engine has been inspected IAW an Annual Inspection and has been determined to be in Airworthy condition.

TECHNICIAN: [REDACTED] DATE: 8-18-16 CERT: [REDACTED] IA

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 Tach: 5288.9 TSO: 26.9 Date 8/30/2016

- Run up and warmed engine for testing. Drained oil, checked screen and filter. Serviced with 9 qts Phillips XC 20W-50. Checked screen and filter, no metal found.
- R&R #6 fuel injector with a new Injector supplied by G.A.M.I. Ground run Satisfactory.

TECHNICIAN: [REDACTED] DATE: 8-30-16 CERT: [REDACTED] IA

Engine – TSIO-520-R11B S/N 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 TT: 5539.0 Date: 10/27/2016

- Run up and warmed engine for testing. Drained oil, checked filter. Installed a new AA48109 Oil filter. Serviced with 9 qts Phillips XC 20W-50.
- Ground run and leak check satisfactory

TECHNICIAN: [REDACTED] DATE: 10/27/16 CERT: [REDACTED] IA

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 A.C.TT:5395.9 TSO: 133.9 Date 1/20/2017

- Run up and warmed engine for testing. Drained oil, checked screen and filter. Serviced with 9 qts Phillips XC 20W-50. Checked screen and filter, no metal found.
- Cleaned and gapped spark plugs.
- Compression #1 76/80 #2 75/80 #3 73/80 #4 77/80 #5 76/80 #6 75/80
- Cleaned the #6 fuel Injector.
- C/W AD71-09-07R1 – Heat Exchanger inspection - OK
- Ground run and leak check Satisfactory.

I certify this engine has been inspected IAW an Annual inspection and was determined to be in airworthy condition.

TECHNICIAN: [REDACTED] DATE: 1/20/17 CERT: [REDACTED] IA

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 →					

1/16/18 Tach 5635.4 Engine TT 373.4 SMOH N/A N1925U ENGINE

Performed an Annual Inspection. Compression Check. #1 75/80 #2 72/80 #3 65/80 #4 68/80 #5 65/80 #6 72/80. Changed the oil and filter. 10qt. Phillips 20W-50 was added. The plugs were cleaned, gapped and rotated. The magneto timing was checked and reset to 22 degrees. Replaced the air filter. Cleaned fuel screens and lubed controls. The engine was washed down, ran and checked for operation and leaks. AD's were checked through 2018-01.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an Airworthy Condition.

Signed

[Redacted Signature]

ZA

[Redacted Signature]

1/16/18

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 A.C.TT: 5685.1 TSO: 422.8 Date 3/22/18

- Run up and warmed engine for testing. Drained oil, checked screen and filter, no metal found. Serviced with 9 qts Phillips XC 20W-50.

TECHNICIAN:

[Redacted Technician Name]

DATE: 3/22/18

CERT: [Redacted] IA

IA

CERT

6/28/18

DATE:

[Redacted Technician Name]

TECHNICIAN

- Run up and warmed engine for testing. Drained oil, checked screen and filter, no metal found. Serviced with 9 qts Phillips XC 20W-50.

AIRCRAFT: N1925U Model T210N Serial 21064750 A.C.TT: 5745.8 TSO: 483.5 Date 6/28/18

Engine – TSIO-520-R11B SN – 1032649

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 Tach 5774.5 Date 8/16/18

Removed the turbocharger P/N 406610-9005, S/N BK038144 and installed overhauled exchange Hartzell turbocharger P/N 406610-9005 with S/N XGO11124. Removed the wastegate P/N 470908-9011, S/N B0018910E and installed overhauled exchange Hartzell Wastegate P/N 470908-9001 with S/N B0013910E. The engine was ran and operation tested. Checked ok.

TECHNICIAN:

[Redacted Technician Name]

DATE: 8/16/18

CERT: A&P

[Redacted Signature]

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

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 A.C.TT: 5793.0 TSO: 530.7 Date 9/12/18

- Run up and warmed engine for testing. Drained oil, checked filter for metal, no metal found. Serviced with 10 qts Phillips XC 20W-50. Ground run and leak check Satisfactory.

TECHNICIAN: [REDACTED] DATE: 9/12/18 CERT: [REDACTED] IA

2/01/19 Tach 5866.8 TT 604.8 SMOH N/A N1925U ENGINE

Performed an Annual Inspection. Compression Check. #1 72/80 #2 66/80 #3 40 /80 #4 68/80 #5 20/80 #6 68/80. Removed the #3 and #5 cylinders and sent to HYFAST Aerospace LLC for repair. Reinstalled the repaired cylinders. Changed the oil and filter. 10qt. Phillips 20W-50 M mineral oil was added. The plugs were cleaned, gapped and rotated. Removed both magnetos and sent to Professional Aircraft Accessories for the 500 hr magneto inspection. The magnetos were inspected and repaired as necessary. Reinstalled the inspected magnetos and timed to the engine. Magneto inspection is due again at 6366.8 hrs. Removed the turbocharger controller and pop off valve and sent to Main Turbo for bench testing. Both checked ok. Reinstalled the controller and relief valve. Replaced the gasket for the oil cooler adapter plate. Replaced the intake hose for the turbocharger. Replaced all of the intake gaskets. Removed the oil cooler and resealed the inboard fitting. Reinstalled the oil cooler. Tightened the left vacuum pump fitting. Replaced the air filter. Cleaned fuel screens and lubed controls. The engine was washed down, ran and checked for operation and leaks. Adjusted the idle. AD's were checked through 2019-02.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an Airworthy Condition.

Signed [REDACTED] IA [REDACTED] 2/6/19

5863 Hrs 2/14/19 [REDACTED]



N1925U Engine Log Date 2/14/2019 Hobbs 2122.2

CHANGED OIL AND FILTER. INSTALLED 10 QTS PHILLIPS 20W50 AND CH48109-1 FILTER, WASHED DOWN ENGINE. REPLACED BREEZE CLAMP ON TURBO INLET DUCT.

Work performed by Tiffin Aire, Inc.

Signature [REDACTED] IA [REDACTED]

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 A.C.TT: 5949.4 Date 5/01/19

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 9 qts. Of Phillips XC 20W-50. The exhaust collector was found cracked. Replaced the turbocharger inlet collector with a new collector P/N K1250860M-105 with S/N 270363. Replaced the center stack assembly with a new assembly P/N K1250860-100 with S/N 268741. Also installed 4 new exhaust clamps P/N CS055-2. Tested the waste gate operation. Checked ok. The waste gate is fully closed at the proper oil pressure. The engine was washed down, ran and checked for leaks.

TECHNICIAN: [REDACTED] DATE: 5/6/19 CERT: A&P [REDACTED]

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

Carried forward →

Engine – TSIO-520-R11B SN – 1032649

AIRCRAFT: N1925U Model T210N Serial 21064750 Tach Time 6001.9 Date 8/20/19

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 9 qts. Of Phillips XC 20W-50. The engine was washed down, ran and checked for leaks.

Signed:

Date:

8/20/19

CERT: A&P

11/07/19 Tach 6051.5**N1925U****ENGINE**

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 9 qts. Of Phillips XC 20W-50. **C/W AD 71-09-07R1** Heat exchanger Inspection. Checked Ok. Due again 6101.5 hrs. The engine was washed down, ran and checked for leaks.

Signed:

Date:

11/07/19

CERT: A&P

12/04/19**Tach 6070.4****N1925U****ENGINE**

Replaced the #1 Alternator belt. Ran and tested operation. Checked ok.

Signed:

A&P**1/24/20 Tach 6099.0 TT 837.0 SMOH N/A N1925U ENGINE**

Performed an Annual Inspection. Compression Check. #1 72/80 #2 68/80 #3 71/80 #4 42/80 #5 66/80 #6 40/80. Removed the #4 and #6 cylinders and installed new Continental cylinder stud assemblies with existing pistons and new rings fitted by Hyfast Aerospace. Changed the oil and filter. 10qt. Phillips 20W-50 M mineral oil was added. The plugs were cleaned, gapped and rotated. Replaced one spark plug. Cleaned and back flushed the controller and waste gate. Replaced the air filter. Cleaned fuel screens and lubed controls. The engine was washed down, ran and checked for operation and leaks. Adjusted the idle. AD's were checked through 2020-02.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an Airworthy Condition.

Signed:

T.A.1/24/20

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

Carri

02/11/2020 Tach 6112.5

N1925U

ENGINE

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 9 qts. Of Phillips XC 20W-50. The engine was washed down, ran and checked for leaks.

Signed: [REDACTED]

Date: 2/11/20

CERT: A&P [REDACTED]

06/02/2020 Tach 6163.1

N1925U

ENGINE

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 10 qts. of Phillips XC 20W-50. CW AD 71-09-07R1 Heat exchanger Inspection. Checked Ok. Due again 6213.1 hrs. The engine was washed down, ran and checked for leaks.

Signed: [REDACTED]

Date: 6/02/20

CERT: A&P [REDACTED]

10/01/2020 Tach 6216.5

N1925U

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 10 qts. Of Phillips XC 20W-50. CW AD 71-09-07R1 Heat exchanger Inspection. Checked Ok. Inspection is due again at 6266.5 hrs. The engine was washed down, ran and checked for leaks.

Signed: [REDACTED]

Date: 10/01/20

CERT: A&P [REDACTED]

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					

Carri 1/15/21 Tach 6272.1 TT 1010.0 SMOH N/A N1925U ENGINE
 Performed an Annual Inspection. Compression Check. #1 66/80 #2 53/80 #3 57/80 #4 66/80 #5 50/80 #6 66/80. The compression check was C/W I/A/W Continental Service Bulletin SB03-3 Differential Pressure Test and Borescope Procedures. The low reading allowed is 45/80. Borescoped the #2 & #5 cylinder. Checked ok. Ok for continued service. Changed the oil and filter. 10qt. Phillips 20W-50 oil was added. The plugs were cleaned, gapped and rotated. Replaced the #3 EGT probe. Removed the turbo controller and sent to Main Turbo for testing. Reinstalled the overhauled controller P/N 470688-7, S/N FL0115. Cleaned and back flushed the controller and waste gate. Resecured the baffling over the #3 cylinder. Repaired the manifold drain. Replaced the air filter. Cleaned fuel screens and lubed controls. The engine was washed down, ran and checked for operation and leaks. AD's were checked through 2021-01.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an Airworthy Condition.

Signed

04/30/21 Tach 6316.9

ENGINE

Changed the oil and filter. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 9 qts. of Phillips XC 20W-50. C/W AD 71-09-07R1 Heat exchanger Inspection. Checked Ok. Inspection is due again at 6356.9 hrs. The engine was washed down, ran and checked for leaks. Serviced the nose strut with nitrogen.

Signed:

Date:

4/30/21

CERT: A&P

08/16/21

Tach 6375.6

N1925U

ENGINE

Changed the oil and filter. An oil sample was taken. The oil filter was cut open and inspected. Checked ok, no metal found. The engine was serviced with 9 qts. Of Phillips XC 20W-50. C/W AD 71-09-07R1 Heat exchanger Inspection. Checked Ok. Inspection is due again at 6425.6 hrs. The engine was washed down, ran and checked for leaks.

Signed:

Date:

8/16/21

CERT: A&P