



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N5702J

Engine Manufacturer Continental

Model TSTD-520-M

Serial No. 532085

Date installed on aircraft _____

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

☐ Right ☐ Left

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2012 Feb 20	1825.1	0	5259.1	TOTALS brought forward from previous page
				Installed this engine in N5702J.
				Installed using new engine mounts and
				hardware. Serviced engine with
				Phillips 20W50. performed ground run.
				Take off fuel flow is high but
				within safe operating limits. Recommended
				operator to take to a facility to
				fine tune fuel settings.
				— end —
				TC Gant IA2745080.

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time
3/26/12	1825.1	0	5259.1



RAM Aircraft, Limited Partnership • Waco Regional Airport

CONTINENTAL TSIO-520-M Engine S/N 532085

The above referenced engine was disassembled due to sudden stoppage. The engine was cleaned, inspected and reassembled to service limits per TCM Overhaul Manual X-30575A-sandcast, SB96-11B prop strike and AC 43.13-1B, Chapter 8 Section 1, 8-2, Para B, C, D and E as required. Reused crankcase, crankshaft, camshaft, lifters, main and rod bearings. C/W MSB96-10A ultrasonic inspection. New bolts and nuts installed in rods. Reinstalled cylinder assemblies. Installed new vacuum pump and overhauled prop governor. Installed accessories in their respective positions with existing time in service with the exception of the alternator which was not installed per this work order. Installed new Slick magnetos p/n 6320, left s/n 12020547, right s/n 12020548. Cleaned and flushed lifters, starter adapter and oil pump. Serviced engine with 20W50 mineral oil and ran in test cell for one (1) hour. Engine is approved for return to service for work performed. Engine preserved per Service Bulletin SIL99-1 temp. storage up to ninety (90) days. Pertinent details on file under Project No. 6177.

ENGINE MODEL:
TSIO-520-R
ENGINE S/N: 269984-R
REG. NO: 5702J
WORK ORDER: 5841

**Tennessee Aircraft Services, Inc.**

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 11 April, 2012
A/C TSN: 10024
ENG TT: 2.5
TACH: 5261.6

Engine Entries

- Installed repaired engine s/n 532085 received from RAM after prop strike inspection as per SB96-11B. Project work order No. 6177. Serviced engine with 12 quarts of Aeroshell 100 straight mineral oil. Performed ground run for leak and ops check.
- Performed engine fuel system setup per CMI SID 97-3E.
- Work performed by David Carter, Doug Kail, and Robert Batterman.


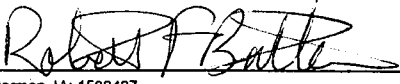
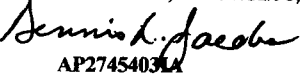

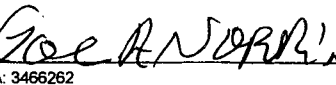

DATE: 11 April, 2012

SIGNED:

Robert Batterman, IA: 1588427

Work Order: 5841

Printed by EBis 3 (datcomedia.com)

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
<div style="display: flex; justify-content: space-between;"> <div> <p>ENGINE MODEL: TSIO-520-R ENGINE S/N: 269984-R REG. NO: 5702J WORK ORDER: 5841</p> <p>Engine Entries</p> <ul style="list-style-type: none"> Installed repaired engine s/n 532085 received from RAM after prop strike inspection as per SB96-11B. Project work order No. 6177. Serviced engine with 12 quarts of Aeroshell 100 straight mineral oil. Performed ground run for leak and ops check. Performed engine fuel system setup per CMI SID 97-3E. </div> <div style="text-align: center;">  <p>Tennessee Aircraft Services, Inc. 2313 Technology Center Drive Jackson, TN 38301 Phone: 731-424-7227</p> </div> <div> <p>DATE: 11 April, 2012 A/C TSN: 10124 ENG TT: 165.0 2.5 TSMOH: 1643.2 TACH: 5361.6</p> </div> </div>				
<div style="display: flex; justify-content: space-between;"> <div>DATE: 11 April, 2012</div> <div>SIGNED: </div> <div>Work Order: 5841</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Robert Batterman, IA: 1588427</div> <div>Printed by EBis 3 (datcomedia.com)</div> </div>				
<p>N#: 5702J DATE: 4/26/2012 MAKE: TCM MODEL: TSIO-520-M S/N: 269984-R TACH: 5271.2 SMOH: 532085</p> <p>DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/W AD96-12-22, EFF: 7/31/96, PARA (3)(2), DUE AGAIN @ OIL FILTER R&R. END</p> <div style="display: flex; justify-content: space-between;"> <div>  <p>Dennis L. Jacobs AP27454031A</p> </div> <div style="text-align: center;"> <p>Is Airworthy With Respect To Work Performed</p> </div> </div>				
<div style="display: flex; justify-content: space-between;"> <div> <p>ENGINE MODEL: TSIO-520-M ENGINE S/N: 532085 REG. NO: 5702J WORK ORDER: 5901</p> <p>Engine Entries</p> <ul style="list-style-type: none"> Installed serviceable cooler p/n 8000545 s/n 1366349 and 7th stud adapter p/n 652618. </div> <div style="text-align: center;">  <p>Tennessee Aircraft Services, Inc. 2313 Technology Center Drive Jackson, TN 38301 Phone: 731-424-7227</p> </div> <div> <p>DATE: 23 May, 2012 A/C TSN: 10037.5 ENG TT: 16 TSMOH: TACH: 5275.1</p> </div> </div>				
<div style="display: flex; justify-content: space-between;"> <div>DATE: 23 May, 2012</div> <div>SIGNED: </div> <div>Work Order: 5901</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Joe Norris, IA: 3466262</div> <div>Printed by EBis 3 (datcomedia.com)</div> </div>				
<p>N#: 5702J DATE: 7/10/2012 MAKE: TCM MODEL: TSIO-520-M S/N: 269984-R TACH: 5315.1 SMOH: 532085</p> <p>DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/W AD71-09-07R1, EFF: 11/26/86, PARA (a)(i)(ii)(iii), DUE AGAIN @ 5365.1(T). C/W AD96-12-22, EFF: 7/31/96, PARA (3)(2), DUE AGAIN @ OIL FILTER R&R. CLEANED ENGINE, PERFORMED GND, OPS NORMAL, NO LEAKS NOTED. END</p> <div style="display: flex; justify-content: space-between;"> <div>  <p>Dennis L. Jacobs AP27454031A</p> </div> <div style="text-align: center;"> <p>Is Airworthy With Respect To Work Performed</p> </div> </div>				

SUB-TOTALS this page

TOTALS—Carry forward to next page

**Is Airworthy With Respect To
Work Performed**

-END-

Is Airworthy With Respect To
Work Performed

RANDY GAUT

				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

N#: 5702J DATE: 7/17/2013 MAKE: TCM MODEL: TSIO-520-M
S/N: 532085 TACH: 5596.0 SMOH: 344.9 ETT: 1954.7

DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/W AD71-09-07R1, EFF: 11/26/86, PARA (a)(i)(ii)(iii), DUE AGAIN @ 5646.0(T). CLEANED ENGINE, PERFORMED GND RUN, OPS NORMAL, NO LEAKS NOTED.

END

**Is Airworthy With Respect To
Work Performed**

Dennis J. Jacobs
AP2745403LA

N#: 5702J DATE: 10/14/2013 MAKE: TCM MODEL: TSIO-520-M
S/N: 532085 TACH: SMOH: ETT:

DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/W AD71-09-07R1, EFF: 11/26/86, PARA (a)(i)(ii)(iii), DUE AGAIN @ 50hrs. CLEANED ENGINE, PERFORMED GND RUN, OPS NORMAL, NO LEAKS NOTED.

END

**Is Airworthy With Respect To
Work Performed**

Randy Gaut
RANDY GAUT

1 of 1

ENGINE MODEL:
TSIO-520-M
ENGINE S/N: 532085
REG. NO: 5702J
WORK ORDER: 6120



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
 Jackson, TN 38301
 Phone: 731-424-7227

DATE: 27 November, 2013
 A/C TSN: 10414.2
 ENG TT: 392.7
 TSMOH:
 TACH: 5651.8

Engine Entries

- Performed 100 hour inspection with reference FAR 43 appendix D.
- Removed left & right Magnetos, reset drive gears to change angle of magnetos for correct position for maximum ventilation and service. Timed to 22 degrees per engine plate and TCM MSB94-8D.
- Compressions: (master orifice 48/80) 1-#74 2-#73 3-#74 4-#71 5-#63 6-#74
- Accomplished a bore-scope inspection of the valves & cylinder barrels & piston tops. All appear normal.
- DraINED oil and took sample for analysis. Removed old filter and opened for inspection with no discrepancies noted. Installed new filter p/n AA48108-2 and serviced engine with 11 quarts of Phillips 20W50 XC oil. Engine ground check run satisfactory.
- Inspected throttle & mixture control levers in accordance with TCM- CSB 08-3. Found levers are not stainless steel. Checked existing control levers and found secure and good for continued service per the bulletin.
- Fuel control inlet screen removed, inspected, cleaned, and re-installed with new gasket p/n 649983. Leak checked o.k.
- Installed new spark plugs Tempest p/n URHB32E.
- Work performed by Doug Kail and Robert Batterman.

I certify this aircraft has been inspected in accordance with an Annual Inspection and found airworthy.

DATE: 27 November, 2013

SIGNED: *Doug Kail*

Doug Kail, IA: 3360806

Work Order: 6120

Printed by EBis 3 (datcomedia.com)

SUB-TOTALS this page

TOTALS—Carry forward to next page

TOTALS—Carry forward to next page



CESSNA TP206A THRU TP206E

CESSNA TU206A THRU TU206F

SUPPLEMENTAL FLIGHT MANUAL

I. GENERAL

- | | |
|--------------|------------------------------|
| 1. ENGINE | Continental TSIO-520-M |
| 2. PROPELLER | McCaughey D3A34C402/90DFA-10 |

II. LIMITATIONS

1. ENGINE LIMITS

Maximum continuous:
275 HP - 2600 RPM - 34.0" Hg. S.L.
260 HP - 2600 RPM - 34.0" Hg. 18,000 ft.
160 HP - 2600 RPM - 22.0" Hg. 30,000 ft.
Straight Line Variation between points
given.
Take-off: (Five (5) minutes)
310 HP - 2700 RPM - 36.5" Hg. S.L.
310 HP - 2700 RPM - 36.5" Hg. 17,000 ft.

2. PROPELLER
LIMITS

Diameter: Maximum 80.0 inches
Minimum 78.5 inches
Pitch Settings: Low $12.4^{\circ} + .5^{\circ}$
High $28.5^{\circ} \pm .5^{\circ}$
Measured at 30 inch station

3. ENGINE
INSTRUMENT
MARKINGS

Fuel Flow (if installed):
Redline: 4 psi; 0 GPH or 0 PPH
Green Arc: 6-21 GPH or 36-126 PPH
White Arc: 21-27 GPH or 126-162 PPH
Redline: 19.5 psi; 31 GPH or 186 PPH

Manifold Pressure:
Green Arc: 15.0 - 34.0 in. Hg.
Yellow Arc: 34.0 - 36.5 in. Hg.
Redline: 36.5 in. Hg.

F.A.A. Approved

Date: May 1, 1981

S.T.C. No. SA2782SW

Page 2 of 3 pages



F.A.A. APPROVED

AIRPLANE SUPPLEMENTAL FLIGHT MANUAL

FOR

CESSNA MODELS TP206A, TP206B, TP206C, TP206D,
TP206E, TU206A, TU206B, TU206C,
TU206D, TU206E and TU206F

WITH

CONTINENTAL TSIO-520-M ENGINE INSTALLED

MODEL NUMBER TP206D
REGISTRATION NUMBER N5702J
SERIAL NUMBER P206-0602

This Supplemental Flight Manual is F.A.A. approved material and must be in the airplane for all operations when the aircraft has been modified by the installation of Continental TSIO-520-M engines in accordance with STC Number SA2782SW. The information contained herein supplements or supercedes the information in the form of placards, markings, and approved manual material. For limitations, procedures and performance not contained in this Supplemental Flight Manual consult the basic airplane placards, markings, and approved manual material.

F.A.A. Approved

Jack E. Owens
for Don P. Watson, Chief
Engineering & Manufacturing Branch
FEDERAL AVIATION ADMINISTRATION
Southwest Region
Fort Worth, Texas 76101

Date: May 1, 1981

S.T.C. No. SA2782SW

Page 1 of 3 pages

RAM

AIRCRAFT MODIFICATIONS INC.

CESSNA TP206A THRU TP206E

CESSNA TU206A THRU TU206F

SUPPLEMENTAL FLIGHT MANUAL

3. ENGINE
INSTRUMENT
MARKINGS
(Continued)

Tachometer:
Green Arc: 2150-2600 RPM
Yellow Arc: 2600-2700 RPM
Yellow Arc: 1850-2150 RPM
Redline: 2700 RPM

4. REQUIRED
PLACARD

On instrument
panel in plain
view near manifold
pressure instrument

M.P. LIMITATIONS	
Alt. x 1000	Max. M.P.
18.0	34.0
20.0	32.0
22.0	30.0
24.0	28.0
26.0	26.0
28.0	24.0
30.0	22.0

Or equivalent
Cessna placard
as supplied by
RAM

On instrument panel
in plain view near
tachometer and M.P.
gauge

AVOID CONTINUOUS OPERATION BETWEEN
1850 and 2150 RPM ABOVE 24 IN. M.P.

III. EMERGENCY PROCEDURES

No Change

IV. NORMAL PROCEDURES

No Change

V. PERFORMANCE

The performance of this airplane equipped with a Continental TS10-520-M engine is equal to or better than the original published performance.

F.A.A. Approved

Date: May 1, 1981

S.T.C. No. SA2782SW

Page 3 of 3 pages