

CEN23MA034

AIRWORTHINESS

Group Chair's Factual Report - Attachment 1

B-17G Maintenance Records

July 12, 2023

MONTH/YEAR Note 1

NOV/2022

PAGE Note 2

1 of

CAF AIRCRAFT FLIGHT LOG FORM 100

MAKE AND MODEL
Boeing B - 17GRegistration & Serial #
TEXAS RAIDERS N7227C / 44-77235

(HOBBS TIME and AIRCRAFT TOTAL TIME from LAST flight entry on PREVIOUS PAGE) =

DATE OF FLIGHT Note 1	FROM	TO	PURPOSE OF FLIGHT (reference 'Purpose of Flight' list)	PILOT'S NAMES LS = Left Seat RS = Right Seat	PILOT POSITION (PIC or SIC)	NO. OF LANDINGS	FE	HOBBS TIME	FLIGHT DURATION (HOURS / TENTHS)	AIRCRAFT TOTAL TIME	MATH CHECK Note 3
1	11/4	CXO	CMD	PTP	LS Ed Vesely RS Scott Williams	PIC SIC	1	796.0	3.0	9231.0	8435.0
2	11/4	CMD	CMD	RFH	LS Ed Vesely RS Scott Williams	PIC SIC	1	796.4	0.4	9231.4	8435.0 ✓
3	11/6	CMD	CMD	RFH	LS Ed Vesely RS Scott Williams	PIC SIC	1	796.7	0.3	9231.7	8435.0 ✓
4	11/6	CMD	CMD	RFH	LS Ed Vesely RS Scott Williams	PIC SIC	1	797.1	0.4	9232.1	8435.0 ✓
5	11/6	CMD	CMD	RFH	LS Ed Vesely RS Scott Williams	PIC SIC	1	797.5	0.4	9232.5	8435.0 ✓
6	11/7	CMD	CXO	PTP	LS Ed Vesely RS Scott Williams	PIC SIC	1	800.8	3.3	9235.8	8435.0
7	11/10	CXO	RBD	RBD/W-O-Dallas	LS John Cotter RS Nathan Harnagle	PIC SIC	1	802.6	1.8	9237.6	8435.0 ✓
8	11/12	RBD	RBD	RFH	LS LEN ROOT RS NATHAN HARNAGLE	PIC SIC	1	802.9	0.3	9237.9	8435.0
9	11/12	RBD	RBD	RFH #2	LS Len Root RS Nathan H	PIC SIC	1	803.3	0.4	9238.3	8435.0
10	11/12	RBD	RBD	TORA	LS Buddy Cooksey RS John Cotter	PIC SIC	1	804.0	0.7	9239.0	8435.0

Note 1 Only ONE Month to be listed. Begin a new PAGE with each new Month - even if this PAGE is not completely full..

Note 2 Each new Month begins with PAGE 1

Note 3 MATH CHECK: Subtract Hobbs Time from Aircraft Total Time after each FLIGHT The result will always be 8435.0 when the math is correct



U.S. Department
of Transportation
**Federal Aviation
Administration**

Aviation Safety

Houston Flight Standards District Office
12650 N. Featherwood Drive, Suite 230
Houston, Texas 77034-4411
281-929-7000, Fax: 281-929-7059

February 25, 2021

Mr. Terry Barker
Commemorative Air Force
Gulf Coast Wing
2257 N. Loop 336 West, Suite 140
PMB207
Conroe, Texas 77304

Dear Mr. Barker:

This letter and the attached List of Effective Pages (LOEP) for revision 1 will serve as the approval for the 14 CFR § 91.409(f) (4) inspection program submitted for the Boeing Model B-17G, Registration No. N7227C, Serial No. 77235. This program was submitted on behalf of American Airpower Heritage Flying Museum, Dallas, Texas.

The submitted copy of this inspection program will remain on file in this office. Any revisions to this program must be submitted for approval prior to incorporation.

In accordance with 14 CFR § 91.415(a), whenever the Administrator finds that revisions to an approved inspection program under 91.409(f)(4) are necessary for the continued adequacy of the program, the owner or operator must, after notification by the Administrator, make any changes in the program found to be necessary by the Administrator.

If you have any questions or concerns, my direct office telephone number is 2 [REDACTED] and cell [REDACTED]. The Houston Flight Standards District Office operating hours are from 7:30 a.m. until 4:00 p.m. Monday through Friday.

Sincerely,

CARL C THOMAS Digitally signed by CARL C THOMAS
Date: 2021.02.25 15:29:40 -06'00'

Carl C. Thomas,
Geographic Safety Inspector
Houston Flight Standards

Enclosure: N7227C Inspection Program - LOEP

Customer Feedback - In our continuing quest for improvement, Flight Standards Service would appreciate any comments you may have about our services at the following website:

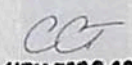
http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/afs/qms

CAF-GCW
AAIP

NOTE: Each page has a unique footer with the revision number, revision date and the page number. When a portion of any page is revised, each item revised will be indicated by a revision bar (||) next to the area affected.

[illegible][illegible]

CAF-GCW
AAIP

Revision Number	Revision Approval Date	Section / Page Number	Inserted BY	Insertion Date
1	2/24/2021	1-41	 HOU-FSD0-09	2/24/2021



Commemorative Air Force

Gulf Coast Wing

2257 N. Loop 336 West

Suite #140

PMB207

Conroe, Texas 77304

Approved Aircraft Inspection Program

Boeing B-17G

Serial #77235

Revision 1

Oct. 27, 2020



CAF-GCW
AAIP

Revision Number	Revision Approval Date	Section / Page Number	Inserted BY	Insertion Date

CAF-GCW
AAIP

NOTE: Each page has a unique footer with the revision number, revision date and the page number. When a portion of any page is revised, each item revised will be indicated by a revision bar (I) next to the area affected.

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AAIP

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CAF-GCW AAIP

Approved Aircraft Inspection Program
Boeing B-17G
Serial #77235
N7227C

I. GENERAL

The enclosed documents and inspection forms address the compliance requirements for an Approved Aircraft Inspection Program in accordance with FAR 91.409(f)(4). These procedures will be followed at the times specified in the AAIP.

II. AAIP RESPONSIBILITIES

The person responsible for scheduling these inspections is the Wing Maintenance Officer. The Maintenance Officer is an elected position with a two-year term that has no limits.

The Maintenance Officer is responsible for the accuracy and currency of the AAIP. The AAIP will be presented to anyone performing inspections, tests or checks required. The AAIP will be available, upon request, to the administrator or their designee.

III. AAIP INSPECTION STATUS

The status of the AAIP can be determined by referring to the "Status of the Aircraft Inspection Form". This form contains the type of inspections performed with dates and aircraft times, the signature and certificate number of each person who has completed an assigned task or completed the inspection. This form also contains the times, date and type of inspection that are due next. The Maintenance Officer is responsible for the accuracy and currency of this form. The "Status of the Aircraft Inspection Form" shows the current revision and revision date. This form is also located in the back of the aircraft Flight logbook.

IV. AAIP INSPECTION PROCEDURES

The AAIP details the performance of inspections, tests and checks on the Airframe, Engines, Propellers, Avionics and Appliances including emergency equipment. All procedures will be accomplished in accordance with Army Air Corp Tech Order TO 01-20E-2 & -3, manufacturer's recommendations, maintenance manuals and comply with CAF Unit Manual Section 5, Paragraph (a) (notification of overhaul vendor). Additionally, at the end of each calendar year a aircraft mechanic (A&P) with an "Inspection Authorization" (I/A) shall verify compliance with the AAIP and make a logbook entry.

CAF-GCW AAIP

V. AAIP INSPECTION FORMS

All inspections will be preformed by a “Mechanic” and an “Inspector”. Each item on these inspection forms will be checked by both individuals. Each form contains two columns, the “MECH” column is for the person’s initials who inspects the item or performs the check, test or task. The “INSP” column is for the inspector’s initials. An inspector is a person(s) assigned by the Maintenance Officer who is an appropriately rated & certified mechanic. Items in the “INSP” column marked with a “XX” may be inspected by an A & P mechanic and do not require an AAIP approved inspector’s initials. Items in the “MECH” column marked with a “XX” may only be inspected by an designated AAIP inspection person.

VI. AAIP MAINTENANCE DESCREPANCY FORM

All discrepancies noted will be entered on the “Maintenance Discrepancy and work preformed document”. This form contains boxes for the discrepancy, corrective action, date, mechanics & Inspector’s sign off.

VII. AAIP MAINTENANCE ORIGATION CHECK

The AAIP provides for an “Origination Check” to be performed prior to the first flight of each day. The Maintenance Officer will designate the person to perform the origination check. The origination check does not substitute nor modify the Pilot’s preflight check. The origination check will be recorded on the Flight Engineer preflight checklist sheet.

VIII. AAIP REVISIONS AND AMENDMENTS

The AAIP will not be changed or modified without FAA approval. There are provisions for minor changes that do not alter or modify the original inspection program. Adding to existing inspections that do not alter the AAIP will be considered minor changes. All changes will be recorded in the log of revisions, and each item revised will be indicated by a “revision bar”(|) next to the area effected. Each page revised will display the date of the revision. Any revision to the lubrication section will be considered minor.

CAF-GCW AAIP

IX. AAIP INSPECTIONS AWAY FROM BASE

When the aircraft is away from home base and an AAIP inspection is due, the Maintenance Officer will coordinate to ensure that all AAIP forms and any aircraft manual or documents are available for the person(s) performing the inspection. The inspection will be performed and/or supervised by one of the following:

1. GCW Maintenance Officer or his designee
2. FAA Approved Repair Station
3. FAA Approved A&P Mechanic / Inspection Authorization

The Maintenance Officer will be responsible for all maintenance records while the aircraft is away from base.

X. AAIP NON-ROUTINE MAINTENANCE

Any non-routine maintenance performed between scheduled inspections will be recorded in the "Maintenance Discrepancy & Work Document". All discrepancies reported by the flight crew will be documented on this form. The discrepancy will contain the Aircraft Total Time, the discrepancy and the corrective action and the maintenance personnel identification. The completed documents will be forwarded to the Maintenance Officer along with any corresponding log pages, checklist or other maintenance documentation provided.

After all inspections, tests and checks have been completed in accordance with the AAIP, the following entry will be made in the aircraft maintenance records when the aircraft is approved for return to service:

THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH CAF-GCW APPROVED INSPECTION PROGRAM INSPECTION #____ IN ACCORDANCE WITH 14 CFR PART 91.409(F)(4) AND IS APPROVED FOR RETURN TO SERVICE."

Signature

Certificate #

Date

Aircraft Total Time

SCHEDULE OF AAIP INSPECTIONS

CAF-GCW AAIP

XI. INSPECTION REQUIREMENTS

A. The APPROVED AIRCRAFT INSPECTION PROGRAM consists of four (4) sequenced inspections – Inspections #1, #2, #3 and #4 completed at a frequency of 25 hour intervals. This provides repeated inspection of critical areas. Inspections are to be completed in sequence only.

A total of four (4) sequenced inspections are the minimum to be completed every 12 months, with at least 2 inspections (1&2 or 3&4) completed every 6 months. Inspections completed within 5 hours, before or after due time, will be considered as accomplished on schedule without affecting the due time of future inspections. A variance of 5 hours before or after due time will allow inspections to be scheduled more readily while the aircraft is on tour. Any inspection can be completed prior to due date or hour. If inspection is completed earlier than 5 hours, the Time in Service or Calendar month the phase was completed creates the new timeline. If overflown, the amount of hours overflown is reduced from the next due interval.

B. The special inspections are to be completed as described in the chart below (INSPECTION FREQUENCY). Refer to Special Inspections check sheets.

XII. INSPECTION FREQUENCY

ITEM	FREQUENCY (Hours or Calendar)
Main Oil Strainer*	50 Maximum Hours
Accessory Section Visual and Pressure Check*	50 Maximum Hours
Power Section Visual*	50 Maximum Hours
Compression Check	100 Hours
Accessory Section Detailed	100 Hours
Power Section Detailed	100 Hours
Wings Detailed	100 Hours
Flaps Detailed	100 Hours
Nacelle Detailed	100 Hours
Fuselage Detailed	100 Hours
Stabilizers Detailed	100 Hours
Controls Detailed	100 Hours
Aircraft & Flight control cables	Each 12 months
Oil Changes	100 Hours /12 Months
Emergency Locator Transmitter Check	Each 12
Months	
Fire Extinguishers (4) (Cockpit, Radio Room, Aft Entry/Nav)	As Required
Landing Gear Detailed (Special Inspection #1)	Each 12
Months	
Aircraft Documents, Records & A.Ds (Special Inspection #2)	Each 12 Months
Avionics and Electrical (Special Inspection #3)	Each 12
Months	
Static, Altimeter and Transponder (Special Inspection #4)	Each 12 Months
Compressed Gas Cylinders (Special Inspection #5)	5 Years
Emergency Locator Transmitter Battery (Special Insp #6)	As Required

*As specified in Inspections #1, #2, #3 and #4

CAF-GCW AAIP

SCHEDULE OF AAIP INSPECTIONS (CONTINUED)

XIII. LUBRICATION REQUIREMENTS

- A. Lubrication will be accomplished in accordance with the specified Lubrication Schedule and Lubrication Instructions by the individual performing the inspection and will be treated as part of the inspection.
- B. Returning the aircraft to service by the individual performing the inspection indicates compliance with the lubrication requirements and endorsement thereof by that individual.
- C. Lubricants specified in the Lubrication Instructions are to be used as the primary guide for the selection of suitable substitutes. Substitution does not constitute a change of the inspection.
- D. Lubrication Inspections are specified with each inspection for #1, #2, #3 and #4 will be accomplished with those inspections.
- E. Lubrication specified for every 100 hours will be completed with Inspection #4.

CAF-GCW AAIP

MAINTENANCE ORIGINATION CHECKLIST

PAGE 1

1. _____ Entrance door-unlocked-condition
2. _____ Pitot tube and static ports-check condition
3. _____ Antennas-check condition & security
4. _____ #3 engine air inlet-check for obstruction
5. _____ Right MLG assembly:
 - a. Tire condition & inflation, approx. 9"-9.5"
 - b. Oleo strut-proper inflation
 - c. HYD lines-condition, security, chafing and leaks
6. _____ Fuel Sumps-Right Wing (5 total - 3 tanks, 2 fuel filters)
7. _____ #3 Turbo (Inop)-security and condition
8. _____ #3 Engine:
 - a. Exhaust system-leaks, condition and security
 - b. Nacelle, wheel well-oil leaks, cable security, condition, binding and abnormal wear
 - c. Nacelle and cowl flaps-condition, security, loose fasteners
 - d. Propeller, hub & dome-condition and oil leaks
 - e. Propeller blades-condition, nicks and cracks
 - f. Propeller governor-cable, condition & security
 - g. Cylinders, ignition leads and hose clamps-condition, security and oil leaks
9. _____ #4 Turbo (inop)-security & condition
10. _____ #4 Engine;
 - a. Exhaust system-leaks, condition and security
 - b. Nacelle and cowl flaps-condition, security and loose fasteners
 - c. Propeller, hub and dome-condition and oil leaks
 - d. Propeller blades-condition, nicks and cracks
 - e. Propeller governor-cable, condition and security
 - f. Cylinders & ignition leads-condition, security and oil leaks
11. _____ #4 Engine air inlet-check for obstruction
12. _____ Right Landing Light-condition of bulb & plexiglass
13. _____ Right Wing (bottom):
 - a. Fuel & oil leaks
 - b. Access panels-open or missing
 - c. Fasteners and screws-missing and loose
14. _____ Right wing tip-condition
15. _____ Right aileron-condition and security
16. _____ Right flap-condition and security
17. _____ Right wing (top)-condition, trailing edge cracks, security of gas caps
18. _____ Ball Turret-door security, proper position & locked in place

MAINTENANCE ORIGINATION CHECKLIST (CONT.)

PAGE

2

CAF-GCW AAIP

19. _____ Fuselage door (aft)-unlocked
20. _____ Tailwheel:
 - a. Tire condition and inflation (60 psi, 4 3/4")
 - b. Oleo strut- proper inflation
 - c. Shear bolt and lock pin-condition and security
21. _____ Right elevator and trim tab for security and condition
22. _____ Rudder and trim tab for security and condition
23. _____ Left elevator & trim tab for security & condition, check radio compass door-"locked down"
24. _____ Top of left wing trailing edge for condition, damage and security of gas caps
25. _____ Left flap for security and condition
26. _____ Left aileron and trim tab for security and condition
27. _____ Left wing condition
28. _____ Bottom of left wing;
 - a. Fuel and oil leaks
 - b. Open or missing access panels
 - c. Loose fasteners and screws
29. _____ Left landing light plexiglass and bulb condition
30. _____ #1 Engine air inlet condition and obstructions
31. _____ #1 Engine turbo (inop) security and condition
32. _____ #1 Engine;
 - a. Exhaust system-leaks, condition and security
 - b. Nacelle & cowl flaps-condition, security and loose fasteners
 - c. Propeller, hub & dome-condition and oil leaks
 - d. Propeller blades-condition, nicks and cracks
 - e. Propeller governor-cable, condition and security
 - f. Cylinders, ignition leads and hose clamps-condition, security and oil leaks
33. _____ Drain fuel from 5 sumps (left side)
34. _____ #2 Engine turbo (inop) security and condition
35. _____ #2 Engine;
 - a. Exhaust system-leaks, condition and security
 - b. Nacelle & cowl flaps-condition, security and loose fasteners
 - c. Propeller, hub & dome-condition and oil leaks
 - d. Propeller blades-condition, nicks and cracks
 - e. Propeller governor-cable, condition and security
 - f. Cylinders, ignition leads and hose clamps-condition, security and oil leaks

MAINTENANCE ORIGINATION CHECKLIST (CONT.)

PAGE

3

36. _____ Left Main Landing Gear;
 - a. Tire security and condition

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AAIP

- b. Oleo strut-proper inflation
- c. Hydraulic lines-security, condition and leaks
- 37. _____ #2 Engine air inlets condition and obstructions
- 38. _____ Pre-oil all engines
- 39. _____ Pull each engine propeller blades through rotation for 9 blades
- 40. _____ Check Aircraft Documents;
 - a. Airworthiness Certificate
 - b. Registration
 - c. Limitations
 - d. Weight and Balance
 - e. Insurance
- 41. _____ Cockpit and Fuselage Interior;
 - a. Check control cables and guide blocks
 - b. Remove weather covers (if installed)
 - c. Check security of Radio Room Hatch & Latches
 - d. Check toolbox drawers are closed and locked
 - e. Check flight controls for “free & correct” movement with no binding or obstructions
 - f. Cockpit windows for no cracks & cleanliness
 - g. Loose equipment-stowed properly
 - h. Checklist availability & stowage
 - i. Hydraulic pump valve in cockpit-check in “on” position (full clockwise)
 - j. Check Landing Gear Switch-“Guard down”
 - k. Hydraulic reservoir for proper fluid level and accumulator pre-charge
 - l. Bleed HYD pressure off with toe brakes
 - m. Check landing gear “cranks”-stowed properly
 - n. Check circuit breaker panel
 - o. Check fuel transfer valve tank selectors and switches
- 42. _____ Measure fuel quantities with fuel stick and record below;
 - a. #1 main tank _____ gals.
 - b. #2 main tank _____ gals.
 - c. #3 main tank _____ gals.
 - d. #4 main tank _____ gals.

MAINTENANCE ORIGINATION CHECKLIST (CONT.)

PAGE

4

- 43. _____ Measure oil quantities & record below (service as required)
 - a. #1 Engine oil tank _____ gals.
 - b. #2 Engine oil tank _____ gals.
 - c. #3 Engine oil tank _____ gals.
 - d. #4 Engine oil tank _____ gals.

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AAIP

44. _____ Initiate new Flight Log* (enter)

- a. Enter fuel quantity
- b. Oil quantity
- c. Weight & balance
- d. Passenger load

*Present flight log to Pilot in Command for his signature and brief PIC of results of Maintenance Origination Check. All Squawks will be entered on the "Maintenance Discrepancy and Work Document".

45. _____ Maintenance Origination Check performed by:

_____	_____	_____
Signature	Date	Time

ADDENDUM - Performed 2 or 3 days prior to flight

All Engines:

1. Open cowl flaps (use SIC manual HYD. Pump)
2. Check rear of cylinders, ignition leads & hoses for security and condition
3. Check exhaust cylinders connections for security and condition

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AAIP

INSPECTION #1

PAGE 1

Date_____ Aircraft TotalTime_____

A. ENGINES #1, #2, #3 & #4

MECH / INSP

1. _____ / _____ Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair _____ cowling as necessary
2. XX / _____ Inspect cylinders, hold down studs, baffles, intake tubes, push rod covers and hoses for condition and security
3. XX / _____ Inspect exhaust system for cracks, holes and broken sections
4. XX / _____ Check cowl flaps and actuating mechanism for operation
5. _____ / _____ Inspect nose and power case for condition and security
6. XX / _____ Inspect propeller governor, controls and feathering lines for condition and security
7. XX / _____ Inspect propeller for condition of blades, hub, dome and oil leaks
8. XX / _____ Inspect accessory case, lines, attachments, vents, dishpan for oil leaks
9. _____ / _____ Operational and leak check of fuel and oil systems
10. _____ / _____ Inspect nose case thrust plate nuts, condition and security
11. _____ / _____ Pressure check of power and accessory section, check for fuel and oil leaks
12. _____ / _____ Inspect all accessories for condition and security
13. _____ / XX Inspect all lines and blast tubes for condition and security
14. _____ / XX Collect oil samples-all engines
15. _____ / _____ Remove, inspect & replace external oil filter (Airwolf)

B. NACELLES #1, #2, #3 & #4

MECH / INSP

1. XX / _____ Inspect skin stringers, bulkheads & formers for cracks, corrosion, wrinkles, damage and working rivets
2. _____ / _____ Inspect plumbing and wiring for condition and security
3. _____ / _____ Inspect engine mount, attachments and oil tank for condition, security and oil leaks
4. XX / _____ Inspect exhaust heat shields for condition and security

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AAIP

C. BATTERIES

MECH / INSP

1. _____ / XX Inspect condition, wiring and venting

INSPECTION #1 (CONT.)

PAGE 2

D. FUSELAGE, LEFT & RIGHT WINGS (Ailerons & Flaps)

MECH / INSP

1. XX / _____ Inspect skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. XX / _____ Inspect attachments at wing to fuselage, aileron attachment and outer wing panel bolts for condition and security
3. _____ / _____ Inspect fuel cells for condition and security
4. _____ / _____ Inspect fuel lines for condition and security
5. _____ / _____ Inspect fuel caps for security, proper fuel quantity and minimum octane rating placards
6. XX / _____ Inspect ailerons and fabric for condition and security

E. HORIZONTAL & VERTICAL STABILIZERS, ELEVATORS & RUDDER

MECH / INSP

1. XX / _____ Inspect skin, stringers and formers for cracks, corrosion, wrinkles, damage and working rivets
2. XX / _____ Inspect elevators and fabric (L & R) for condition and security
3. XX / _____ Inspect rudder and fabric for condition and security

F. ELECTRICAL SYSTEM

MECH / INSP

1. _____ / XX Check landing, navigation and rotating beacon bulbs for operation
2. _____ / XX Check instrument and interior lights for operation
3. _____ / _____ Check output of generators 1, 2, 3 & 4, (200 amps-max)
5. _____ / _____ Check electric hydraulic power pack pressures (Green band)

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AAIP

INSPECTION #1 (CONT.)

PAGE 3

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
3	Lube Screws	Main and Tail Landing Gear
9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature

Certificate #

Date

Aircraft Total Time

CAF-GCW
AAIP

INSPECTION #2

PAGE 1

Date _____

Aircraft Total Time _____

A. ENGINES #1 AND #3

MECH / INSP

1. ____ / ____ Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowlings as necessary.
2. ____ / XX Inspect and clean main oil strainer
3. ____ / XX Perform differential compression test;
 - a. Engine #1
*Record on cylinder compression check form
 - b. Engine #3
*Record on cylinder compression check form
4. ____ / XX Clean, gap and test all spark plugs. Replaced (y/n) ____
 - a. Record spark plug type _____
 - b. Number replaced and cylinder#'s _____
5. ____ / XX Check engine timing
6. ____ / XX Inspect magneto points, P" leads and induction vibrator
7. ____ / XX Check valve clearances as required
8. XX / ____ Inspect engine mounts for condition and security
9. XX / ____ Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. XX / ____ Inspect exhaust system for cracks, holes and broken sections
11. XX / ____ Check cowl flaps and actuating mechanism for operation
12. XX / ____ Inspect nose and power case and blower section for condition and security
13. XX / ____ Inspect propeller governor, controls and feathering lines for condition and security
14. XX / ____ Inspect propeller for condition of blades, hub, dome and oil leaks
15. ____ / ____ Inspect accessory case, oil lines, vents and dishpan for condition and security

CAF-GCW

AAIP

16. XX / ___ Check generator, starter, commutator and feathering pump motor brushes for electrical attachments and operation

INSPECTION #2 (CONT.) MECH / INSP

PAGE 2

17. XX / ___ Check fuel pump, carburetor, lines, fittings, intake elbow, internal baffle, elbow connections, primer operation, mixture idle cut off check, throttle and mixture control stop check for operation and condition
18. ___ / XX Remove, inspect & replace main oil filter (Airwolf)
19. ___ / ___ Check power and accessory section for fuel and oil leaks (pressure check)
20. ___ / XX Inspect all accessories for condition and security
21. ___ / XX Inspect all lines and blast tubes for condition and security
22. ___ / XX Inspect nose case thrust plate nuts and torque to 300/350 inch / pounds

B. NACELLE #1, #2, #3 AND #4

MECH / INSP

1. ___ / ___ Inspect skin stringers, bulkheads and formers for cracks, corrosion, wrinkles for damage and working rivets
2. ___ / XX Inspect plumbing and wiring for condition and security
3. ___ / ___ Inspect attachments, engine mount and oil tank for condition and security
4. ___ / ___ Inspect exhaust heat shields for condition and security
5. ___ / ___ Inspect Induction system ducting, joints and filters for condition and security

C. BATTERIES

MECH / INSP

1. ___ / XX Inspect batteries and wiring for condition and security

D. FUSELAGE

MECH / INSP

CAF-GCW

AAIP

1. XX / ____ Inspect skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. XX / ____ Inspect wing center section attach fittings for condition and security
3. XX / ____ Inspect stabilizers attach fittings for condition and security
4. ____ / ____ Inspect plumbing and wiring for condition and security

INSPECTION #2 (CONT.)

PAGE 3

MECH / INSP

5. ____ / ____ Inspect control cable pulleys, fairleads and cables for condition and security
6. XX / ____ Check flap motor for operation, condition and security
7. ____ / XX Check forward and aft crew doors for operation, condition and security
8. ____ / XX Check windows and nose glass for operation. condition and security
9. ____ / ____ Check passenger seats and seat belts for operation, condition and security
10. ____ / ____ Check cockpit seats and seat belts for operation, condition and security
11. XX / ____ Check flight controls for operation, clearances and limits (Control column & rudder pedals)
12. ____ / ____ Check brakes and parking brake operation
13. ____ / ____ Check engine controls, friction lock and engine switches for operation and condition
14. ____ / ____ Check instruments for operation, condition and placards
15. XX / ____ Check instrument panel for condition and security
16. ____ / ____ Check hydraulic power pack operation, fluid level and filter for condition and security
17. ____ / ____ Check instrument air filter for condition and security
18. ____ / ____ Check vacuum pump filters for condition and security
19. XX / ____ Check bombay, doors, racks and operating mechanism for operation, condition and security
20. ____ / ____ Inspect top, chin and ball turrets, for structure attachments, condition and security
21. ____ / ____ Check fuel transfer valves for operation and condition
22. ____ / XX Check electric fuse panel and wing relay panels for condition and security (spare fuses)

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- 23. ___ / XX Check battery and inverter control panel for condition and security
- 24. XX / ___ Inspect engine and cabin fire bottles for condition, security and expiration date
- 25. ___ / ___ Check radios for operation, condition and security
- 26. ___ / XX Check first aid kit for contents and security
- 27. ___ / ___ Inspect required placards for accuracy and legibility

INSPECTION #2 (CONT.)

PAGE 4

- 28. ___ / XX Check other gear installed for condition and security

E. VERTICAL STABILIZER

MECH / INSP

- 1. XX / ___ Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
- 2. XX / ___ Inspect all attachments for condition and security
- 3. ___ / ___ Inspect wiring for condition and security

F. HORIZONTAL STABILIZER (left & right)

MECH / INSP

- 1. XX / ___ Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
- 2. XX / ___ Inspect attachments for condition and security
- 3. ___ / ___ Inspect wiring for condition and security

G. ELEVATORS (left & right)

MECH / INSP

- 1. XX / ___ Inspect elevators and fabric for condition and security
- 2. ___ / ___ Inspect attachments for condition and security

H. ELECTRICAL SYSTEM

MECH / INSP

- 1. ___ / XX Check landing, navigation and rotating beacon bulbs for operation
- 2. ___ / XX Check instrument and interior lights for operation
- 3. ___ / ___ Check output of generators 1 through 4 (200 amps-max)
- 4. ___ / ___ Check main and spare inverter output (115 volts)

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5.____ / ____ Check electric hydraulic power pack pressures (Green band)

I. EMERGENCY EQUIPMENT

1.____ / ____ Check EPOS masks for condition, security and expiration date

2.____ / ____ Check crash Axe (3 locations) for condition and security

INSPECTION #2 (CONT.)

PAGE 5

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
3	Lube Screws	Main and Tail Landing Gear
9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

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Signature

Certificate #

Date

Location

INSPECTION #3

PAGE 1

Date_____ Aircraft Total Time_____

A. ENGINES #1, #2, #3 & #4

MECH / INSP

1. _____ / _____ Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair _____ cowlings as necessary
2. XX / _____ Inspect cylinders, hold down studs, baffles, intake tubes, push rod covers and hoses for condition and security
3. XX / _____ Inspect exhaust system for cracks, holes & broken sections
4. XX / _____ Inspect cowl flaps & actuating mechanism
5. _____ / _____ Inspect nose and power case, condition and security
6. XX / _____ Inspect propeller governor, controls and feathering lines
7. XX / _____ Inspect propeller for condition of blades, hub, dome and oil leaks
8. XX / _____ Inspect accessory case, lines, attachments, vents, dishpan and oil leaks
9. _____ / _____ Operational and leak check of fuel and oil systems
10. _____ / _____ Inspect nose case thrust plate nuts, condition and security
11. _____ / _____ Pressure check of power & accessory section, check for fuel and oil leaks
12. _____ / _____ Inspect security of all accessories
13. _____ / XX Inspect security of alines and blast tubes
14. _____ / XX Collect oil samples-all engines
15. _____ / _____ Remove, inspect & replace main oil filter (Airwolf)

B. NACELLES #1, #2, #3 & #4

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MECH / INSP

1. XX / _____ Inspect skin stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and rivets
2. _____ / _____ Inspect plumbing and wiring for condition and security
3. _____ / _____ Inspect engine mount, attachments and oil tank for condition, security and oil leaks
4. XX / _____ Inspect exhaust heat shields for condition and security

INSPECTION #3 (CONT.)

PAGE 2

C. BATTERIES

MECH / INSP

1. _____ / XX Inspect Condition, wiring and venting

D. FUSELAGE, LEFT & RIGHT WINGS (Ailerons & Flaps)

MECH / INSP

1. XX / _____ Inspect Skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets.
2. XX / _____ Inspect attachments at wing to fuselage, aileron attachment and outer wing panel bolts for condition and security
3. _____ / _____ Inspect fuel cells for condition and security
4. _____ / _____ Inspect fuel lines for condition and security
5. _____ / _____ Inspect fuel caps for security, proper fuel quantity and minimum octane rating placards
6. XX / _____ Inspect ailerons and fabric for condition and security

E. HORIZONTAL & VERTICAL STABILIZERS, ELEVATORS & RUDDER

MECH / INSP

1. XX / _____ Inspect skin, stringers and formers for cracks, corrosion, wrinkles, damage and working rivets
2. XX / _____ Inspect elevators and fabric (L&R) for condition and security
3. _____ / _____ Inspect rudder and fabric for condition and security

F. ELECTRICAL SYSTEM

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MECH / INSP

1. _____ / XX Check landing, navigation and rotating beacon bulbs for operation
2. _____ / XX Check instrument and interior lights for operation
3. _____ / _____ Check output of generators 1, 2, 3 & 4 (200 amps-max)
5. _____ / _____ Check electric hydraulic power pack pressures (800psi +/- 50psi)

INSPECTION #3 (CONT.)

PAGE 3

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
3	Lube Screws	Main and Tail Landing Gear
9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature

Certificate #

CAF-GCW
AAIP

Date

Aircraft Total Time

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AAIP

INSPECTION #4

PAGE 1

Date _____ Aircraft Total Time _____

A. ENGINES #2 AND #4

MECH / INSP

1. _____ / _____ Remove all engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair _____ cowling as necessary.
2. _____ / XX Inspect and clean main oil strainer
3. _____ / XX Perform differential compression test:
 - a. Engine #2
*Record on cylinder compression check form
 - b. Engine #4
*Record on cylinder compression check form
4. _____ / XX Clean, gap and test all spark plugs. Replaced (y/n) _____
 - a. Record spark plug type _____
 - b. Number replaced and cylinder#'s _____
5. _____ / XX Check engine timing
6. _____ / XX Inspect magneto points, P" leads and induction vibrator
7. _____ / XX Check valve clearances as required
8. XX / _____ Inspect engine mounts for condition and security
9. XX / _____ Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. XX / _____ Inspect exhaust system for cracks, holes and broken sections
11. XX / _____ Check cowl flaps and actuating mechanism for operation
12. XX / _____ Inspect nose and power case and blower section for condition and security
13. XX / _____ Inspect propeller governor, controls and feathering lines for condition and security
14. XX / _____ Inspect propeller for condition of blades, hub, dome and oil leaks
15. _____ / _____ Inspect accessory case, oil lines, vents and dishpan for condition and security
16. XX / _____ Check generators, starter, commutator, feathering pump motor brushes for electrical attachments and operation

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INSPECTION #4 (CONT.)

PAGE 2

MECH / INSP

17. XX / ____ Check fuel pump, carburetor, lines, fittings, intake elbow
internal baffle, elbow connections, primer
operation, mixture idle cut off check,
throttle and mixture control stop check for
operation and condition
18. ____ / XX Remove, inspect & replace main oil filter (Airwolf)
19. ____ / ____ Inspect power and accessory section for fuel and oil leaks
(pressure check)
20. ____ / XX Inspect all accessories for condition and security
21. ____ / XX Inspect all lines and blast tubes for condition and security
22. ____ / XX Inspect nose case thrust plate nuts and torque to
300/350 inch / pounds

B. NACELLE #1, #2, #3 AND #4

MECH / INSP

1. ____ / ____ Inspect skin stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. ____ / XX Inspect plumbing and wiring for condition and security
3. ____ / ____ Inspect attachments, engine mount and oil tank for
condition and security
4. ____ / ____ Inspect exhaust heat shields for condition and security
5. ____ / ____ Inspect induction system ducting, joints and filters for
condition and security

C. BATTERIES

MECH / INSP

1. ____ / XX Inspect batteries and wiring for condition and security

D. FUSELAGE

MECH / INSP

1. XX / ____ Inspect skin, stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. XX / ____ Inspect wing center section attach fittings for condition
and security
3. XX / ____ Inspect stabilizers attach fittings for condition and security

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4.____ / ____ Inspect plumbing and wiring for condition and security

INSPECTION #4 (CONT.)

PAGE 3

MECH / INSP

5.____ / ____ Inspect control cable pulleys, fairleads and cables for
condition security

6. XX / ____ Check flap motor for operation, condition and security

7.____ / XX Check forward and aft crew doors for operation, condition
and security

8.____ / XX Check windows and nose glass for operation, condition and
security

9.____ / ____ Check passenger seats and seat belts for operation,
condition and security

10.____ / ____ Check cockpit seats and seat belts for operation, condition
and security

11. XX / ____ Check flight controls for operation, clearances and limits
(control column and rudder pedals)

12.____ / ____ Check brake and parking brake operation

13.____ / ____ Check engine controls, friction lock and engine switches for
operation and condition

14. XX / ____ Check instruments for operation, condition and placards

15.____ / ____ Check instrument panel for condition and security

16.____ / ____ Check hydraulic power pack operation, fluid level and filter
for condition and security

17.____ / ____ Check instrument air filter for condition and security

18.____ / ____ Check vacuum pump filters for condition and security

19. XX / ____ Check bombay, doors, racks and operating mechanism for
s operation, condition and security

20.____ / ____ Inspect top, chin and ball turrets for structure attachments,
condition and security

21.____ / ____ Check fuel transfer valves for operation, condition

22.____ / XX Check electric fuse panel and wing relay panels for
condition and security (spare fuses)

23.____ / XX Check battery and inverter control panel for condition and
security

24. XX / ____ Inspect engine and cabin fire bottles for condition, security
and expiration date

25.____ / ____ Check radios for operation, condition and security

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- 26. / XX Check first aid kit for contents and security
- 27. / Inspect required placards for accuracy and legibility
- 28. / XX Check other gear installed for condition and security

INSPECTION #4 (CONT.)

PAGE 4

E. VERTICAL STABILIZER

MECH / INSP

- 1. XX / Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
- 2. XX / Inspect all attachments for condition and security
- 3. / Inspect wiring for condition and security

F. HORIZONTAL STABILIZER (left & right)

MECH / INSP

- 1. XX / Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
- 2. XX / Inspect all attachments for condition and security
- 3. / Inspect wiring for condition and security

G. ELEVATORS (left & right)

MECH / INSP

- 1. XX / Inspect for security, fabric & condition
- 2. / Inspect attachments for condition and security

H. ELECTRICAL SYSTEM

MECH / INSP

- 1. / XX Check landing, navigation and rotating beacon bulbs for operation
- 2. / XX Check instrument and interior lights for operation
- 3. / Check output of generators 1 through 4 (200 amps-max)
- 4. / Check main and spare inverter output (115 volts)
- 5. / Check electric hydraulic power pack pressures (800 psi +/- 50 psi)

I. EMERGENCY EQUIPMENT

- 1. / Check EPOS masks for condition, security & expiration date

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2.____ / ____Crash Axe (3 locations), check condition

INSPECTION #4 (CONT.)

PAGE 5

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
3	Lube Screws	Main and Tail Landing Gear
9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

_____	_____	Signature
	Certificate #	
_____	_____	
Date	Location	

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AAIP

CYLINDER COMPRESSION CHECK RECORD

Date_____ Engine Total Time_____

Engine #_____

Cylinder No.	Reading (in PSI)	Comments
--------------	------------------	----------

1		
---	--	--

2		
---	--	--

3		
---	--	--

4		
---	--	--

5		
---	--	--

6		
---	--	--

7		
---	--	--

8		
---	--	--

9		
---	--	--

Reason for compression check:

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Performed by: _____

SPECIAL INSPECTION #1 (EVERY 12 CALENDAR MONTHS)

Date _____ Aircraft Total Time _____

LANDING GEAR

MECH / INSP

1. XX / ____ Attach fittings and structure for cracks, corrosion and damage
2. XX / ____ Attach points and retraction components for wear, looseness and lubrication
3. XX / ____ MLG screw jacks for condition and lubrication. Attach fitting bolts for condition and wear (special bolts)
4. XX / ____ MLG electrical components, limit switches, wiring, motor, relays for condition. Electrical connections for security, brushes and commutators.
5. ____ / ____ Wheels and tires for condition and inflation. Bearings and braces for condition. Brake drums for condition and wear.
6. ____ / ____ Brake pad blocks for thickness, spring clips and leaks
7. ____ / ____ Spindels
8. XX / ____ Tail wheel condition, tail wheel lock assembly (cable and pulleys), tail wheel lock switch, centering switch, boot, shear bolt, structure & attach fitting & trunnion assembly
9. XX / ____ Tail wheel retract mechanism for security, condition and lubrication (lube emergency crank shaft)
10. XX / ____ Landing gear retraction & extension check, gear warning, gear indications, centering switch operation and tail wheel; lock operation & indication
11. ____ / ____ MLG & Tail Wheel, Emergency / manual retraction & extension (Hand Cranking)
12. ____ / ____ Struts for fluid level and proper inflation
13. ____ / XX Lubrication as required

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This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

_____ Certificate #	Signature
_____ Location	Date

SPECIAL INSPECTION #2 (EVERY 12 CALENDAR MONTHS)

Date _____ Aircraft Total Time _____

DOCUMENTS AND COMPLIANCE

MECH / INSP

1. XX / ____ Airworthiness Directives (AD's), current and next due
(hours and/or calendar)
2. XX / ____ Aircraft flight manual, check revision currency and
condition
3. ____ / ____ Aircraft checklist, check revision currency and condition
4. XX / ____ FAA Aircraft registration, check for presence and
expiration date
5. XX / ____ FAA Airworthiness Certificate, check for presence
6. ____ / ____ Aircraft Insurance certificate, check for presence and
expiration date
7. ____ / ____ Status of Aircraft Inspection Program, check for
presence and accuracy
8. ____ / ____ Aircraft flight log, check for presence, currency and
appropriate maintenance entries
9. ____ / ____ Type Specification, check for conformity

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

CAF-GCW
AAIP

Certificate #

Location

Date

Signature

SPECIAL INSPECTION #3 (EVERY 12 CALENDAR MONTHS)

Date _____ Aircraft Total Time _____

AVIONICS AND ELECTRICAL SYSTEMS

AVIONICS SYSTEM

MECH / INSP

1. ____ / ____ Radio racks, security and condition
2. ____ / ____ Radio wiring and circuitry, security and condition
3. ____ / ____ Antennas & coaxial cables, security and condition

ELECTRICAL SYSTEM

MECH / INSP

1. ____ / ____ Functional check;
 - a. Cockpit instruments and lights
 - b. DC powered instruments
 - c. Emergency electrical disconnect switch
 - d. Flap switch and position indicator
 - e. Fuel and oil indication systems
 - f. Ground power relay
 - g. Ignition vibrators
 - h. Inverters and AC system
 - i. Landing lights
 - j. Position lights and strobes
2. ____ / ____ Batteries, connections, security and condition
3. ____ / XX Spare light bulbs, replenish as required

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AAIP

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Certificate # _____ Signature

Location _____ Date

INSPECTION #4

(EVERY 24 CALENDAR MONTHS)

Date _____ Aircraft Total Time _____

PITOT STATIC SYSTEM, ALTIMETER AND TRANSPONDER

MECH / INSP

1. XX / ____ Static pressure system test (14 CFR Part 91.411)
 - a. Date tested _____
2. XX / ____ Aircraft altimeter test;
 - a. Date tested _____
 - b. Maximum altitude _____
3. XX / ____ Transponder test
 - a. Date tested _____
 - b. Next test due date _____

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

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Certificate #

Signature

Location

Date

INSPECTION #5

(EVERY 5 CALENDAR YEARS)

Date_____

Aircraft Total Time_____

COMPRESSED GAS CYLINDERS (2)

MECH / INSP

1. XX / ____ Compressed Gas Cylinders will be inspected and
maintained in accordance with 49 CFR, Subtitle B,
Chapter I, Part 180.209*

*Part 180.209 "Requirements for re-qualifications of
specification cylinders"

Next Due Date _____

CAF-GCW

AAIP

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409 (f) (4) and is approved for return to service.

Signature

Certificate #

Date

Location

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AAIP

INSPECTION #6

(Maintained I/A/W FAR 91.207D)

Date _____

Aircraft Total Time _____

EMERGENCY LOCATOR BATTERY

MECH / INSP

1. XX / ____ Replace ELT at or before due date
a. Removed battery p/n _____
b. Installed battery p/n _____
*Replace battery by (date) _____

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Certificate #

Signature

Location

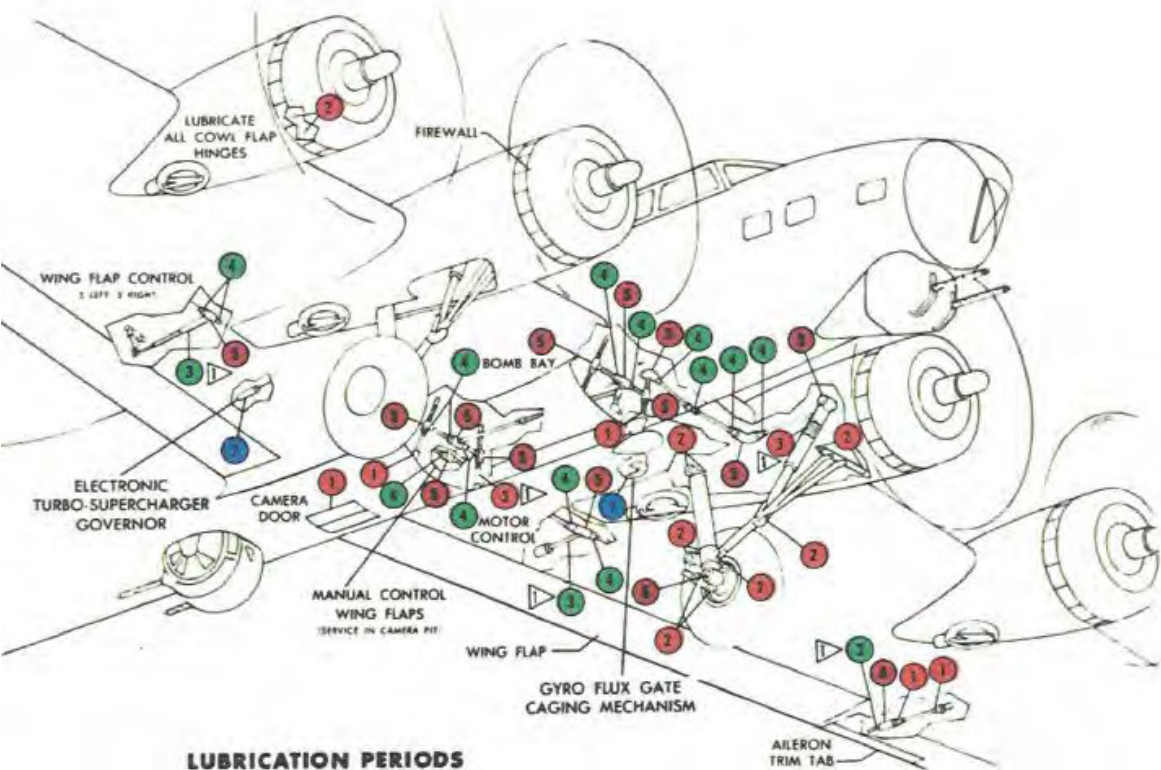
Date

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LUBRICATION SCHEDULE (INSPECTIONS: 1, 2, 3 & 4)

Date _____ Aircraft Total Time _____

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LUBRICATION PERIODS

SYMBOL	PARTS	LOCATION
25 HOURS ●		
1	EXPOSED UNIVERSALS	AILERON TRIM TAB CONTROL
1	TERMINAL ASSEMBLY	BOMB DOOR RETRACTING SCREWS
1	FOOT PEDAL STIRRUPS	CONTROL CABIN (NOT SHOWN)
1	PEDAL AND BRAKE ROD CONTROLS	CONTROL CABIN (NOT SHOWN)
1	PEDAL ADJUSTMENT GUIDE	CONTROL CABIN (NOT SHOWN)
1	HANDLE ASSY. STARTER CONTROL	CONTROL CABIN (NOT SHOWN)
1	RUDDER AND ELEVATOR LOCK PINS	CONTROL CABIN (NOT SHOWN)
1	(CAUTION: DO NOT LUBRICATE ENGAGING AREAS OF LOCK PIN.)	
1	DOOR HINGES AND LOCKS	
1	AILERON, RUDDER AND TAB INDICATOR	TAIL ASSEMBLY
1	ALL OTHER EXPOSED UNIVERSALS	
2	PINNED JOINTS AND LATCHES	
2	ZERK FITTINGS	
3	RETRACTING SCREWS	BOMB BAY
3	RETRACTING SCREWS	MAIN LANDING GEAR
3	RETRACTING SCREWS	TAIL WHEEL GEAR

SYMBOL	PARTS	LOCATION
100 HOURS ●		
5	GEAR BOXES	SEE DIAGRAM
6	BEARINGS	SEE DIAGRAM
200 HOURS ●		
7	TACHOMETER SHAFTS	NACELLE 1, 2, 3, AND 4
8	CABLES (NOT SHOWN)	PULLEY GROOVES AND FAIRLEADS
500 HOURS ●		
3	RETRACTING SCREWS	WING FLAP
3	RETRACTING SCREWS	AILERON TRIM TAB
3	RETRACTING SCREWS	ELEVATOR TRIM TABS
4	ENCASED UNIVERSALS	SEE DIAGRAM
7	CONTROL INSTALLATION	BOMB RACKS AND DOORS

Figure 43—Lubrication Chart (Sheet 2 of 2)

CAF-GCW AAIP

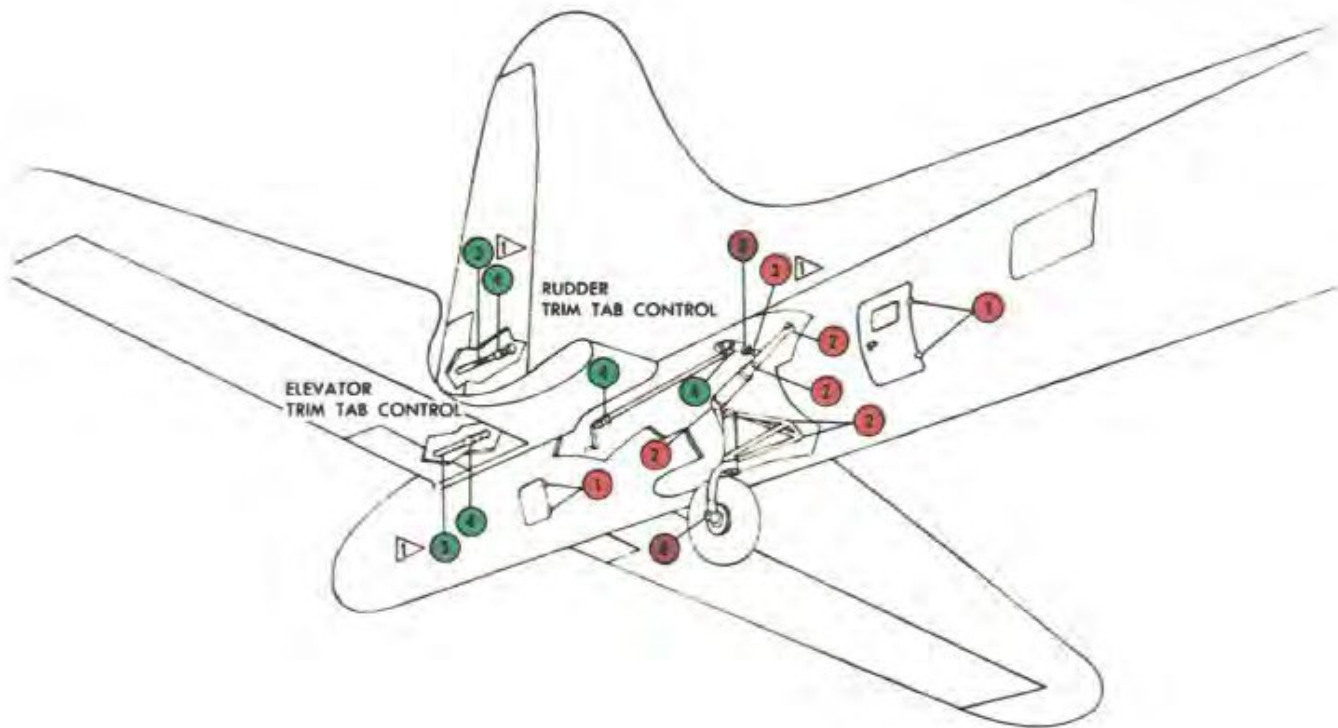
LUBRICATION INSTRUCTIONS

- 1-PINNED JOINTS, EXPOSED UNIVERSALS, DOOR HINGES AND LATCHES, SPLINES, ETC. LUBRICATE WITH LOW TEMPERATURE OIL SPECIFICATION NO. AN-O-6.
- 2-ZERK FITTINGS-APPLY LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION NO. AN-G-3, SPARINGLY. DO NOT LUBRICATE GEAR BOXES BY ZERK FITTINGS, FOLLOW INSTRUCTION FIVE.
- 3-RETRACTING SCREWS-INSPECT MECHANISM FOR DIRT AND OTHER FOREIGN MATTER IN LUBRICANT, AND FOR SUFFICIENT LUBRICATION. WHERE NECESSARY, CLEAN THOROUGHLY AND APPLY A LIGHT COAT OF LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION AN-G-10.
- 4-ENCASED UNIVERSALS-CLEAN THOROUGHLY AND RE-LUBRICATE WITH LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION AN-G-3, TO 1/3 CAPACITY.
- 5-GEAR BOXES-INSPECT REPRESENTATIVE GEAR BOXES FOR LOSS OF AND GENERAL DETERIORATIONS OF THE LUBRICANT AND FOR EVI-

DENCE OF MOISTURE. WHEN NECESSARY, CLEAN AND RE-LUBRICATE TO 1/3 CAPACITY WITH LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION AN-G-3.

- 6-BEARINGS-CLEAN THOROUGHLY AND RELUBRICATE TO 1/3 CAPACITY AS FOLLOWS. LUBRICATE ROLLER BEARINGS IN WHEELS WITH GREASE, SPECIFICATION NO. 3560, MEDIUM GRADE. LUBRICATE ALL OTHER BALL AND ROLLER BEARINGS WITH GREASE SPECIFICATION AN-G-3.
- 7-FLEXIBLE SHAFTING-DISASSEMBLE, CLEAN THOROUGHLY AND IF EXPOSED TO LOW TEMPERATURES APPLY A LIGHT COAT OF GREASE, SPECIFICATION AN-G-3.
- 8-CLEAN THOROUGHLY AND COAT PARTS LIGHTLY WITH GREASE AN-G-3.

▶ IT IS IMPORTANT THAT THE EXCESS GREASE BE REMOVED FROM THE ACTUATING SCREWS TO PREVENT FREEZING AND STICKING AT EXTREME LOW TEMPERATURES.



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Lubrication Chart Symbol	Part description	Location
MECH / INSP		
1.____ / ____ #2	Grease zerk fittings	MLG & Tail Gear Assy
2.____ / ____ #3	Lube jack screws	MLG & Tail Gear

In addition to items listed above on Inspection #4 Lubricate:

3.____ / ____ #3	Retraction screws	MLG & tail wheel
4.____ / ____ #6	Tail wheel bearings	Tail wheel
5.____ / ____ #1	Exposed universals	Aileron trim tab
6.____ / ____ #1	Foot pedal stirrups	Cockpit
7.____ / ____ #1	Rudder pedal & brake rods	Cockpit
8.____ / ____ #1	Rudder pedal adjustment guide	Cockpit
9.____ / ____ #1	Rudder & elevator lock pins	Cockpit
	*caution-do not lube engaging areas of lock pin	
10.____ / ____ #1	Door hinges & locks	Below cockpit (left) & aft fuselage
	(right)	
11.____ / ____ #1	Aileron, rudder & elevator tab indicators	Cockpit
12.____ / ____ #1	All other exposed universal pinned joints & latches	(not shown)

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LUBRICATION SCHEDULE (CONT.) (INSPECTIONS: 1, 2, 3 & 4)

13.____ / ____#3	Extension & retraction screws	Wing flaps
14.____ / ____#5	Gear boxes	(see diagram)
15.____ / ____#6	Bearings	(see diagram)
16.____ / ____#8	Cables (not shown)	Pulley grooves & fairlead
17.____ / ____#3	Actuating screws	Aileron & elevator
trim tabs		
18.____ / ____#4	Encased universals	(see diagram)

**B-17G Texas Raiders
N7227C
2019 Flying Season MAINTENANCE STATUS & RECAP**

CONTINUOUS INSPECTIONS: FAR 91.409 (f) (4)	Hobbs Time Last Performed	TTA Last Performed	Date Last Completed	Next Due Hobbs Time	Next Due Tot. Time Airframe	Inspections Due @ 30 Hr. Intervals (+ 5/-5 Hrs.; Max. 120 Hrs. For All 4 Inspections)
No. 1	425.7 Hrs.	8,860.7 Hrs.	03/26/19	455.7 Hrs.	8,890.7	#1 Next Due After 30 add'l. Flt. Hrs.
No. 2	425.7	8,860.7	03/26/19	485.7	8,920.7	#2 Next Due After 60 add'l. Flt. Hrs.
No. 3	425.7	8,860.7	03/26/19	515.7	8,950.7	#3 Next Due After 90 add'l. Flt. Hrs.
No. 4	425.7	8,860.7	03/26/19	545.7	8,980.7	#4 Next Due After 120 add'l. Flt. Hrs.
A.D. NOTES:	Description		Frequency		Notes / Comments	
2001-22-06	Wing spar Cords – Inspec.		03/01/18	Complete per FAA app' d. AMOC No additional follow-up required.	Ref. FAA Ltr. # 782-17-1773, dated 17-Nov.- 2107 for approval of MOC.	
77-17-11	Rear Spar Lwr. Cap – NDI		02/16/16	Every 60 mos. or 750 Flt Hrs.	Ref. FAA Ltr. # 782-17-1872 dated 17-Nov.-2017 for approval of AMOC.	
73-20-02	Front Spar Lwr. Cap - NDI		02/16/16	Every 60 mos. or 750 Flt Hrs.		
81-13-06 R2	Ham. Std. Hydromatic Prop.		See Notes/ Comments	Every 60 calendar months	Eng # 1 – 11/23/21 Eng # 2 – 02/06/25 Eng # 3 – 09/21/22 Eng # 4 – 02/22/20 ^{3/24}	
ENGINE OIL CHANGE:	Last Performed @ Hours		Date Last Performed	Next Due @ Hours		Notes / Comments
	Total Time Airframe	Act. Engine Time [SMOH]		Total Time Airframe	Engine Time	Oil Change Due @ 90 Hr. intervals. New cartridge oil filters installed @ each 30 Hr. Inspection. Oil type W120
Engine No. 1	8,839.1 Hrs.	388.8 Hrs.	09/18/18	8,929.1 Hrs.	478.8 Hrs.	Change with Eng. # 1 @ + 90 Hrs.
Engine No. 2	8,839.1	242.2	09/18/18	8,929.1	332.2	Change with Eng. # 2 @ + 90 Hrs.
Engine No. 3	8,839.1	700.9	09/18/18	8,929.1	790.9	Change with Eng. # 3 @ + 90 Hrs.
Engine No. 4	8,809.7	90.4	07/23/18	8,899.7	180.4	Switched to W120 oil after "break-in" complete.
"SPECIAL" INSPECTIONS: FAR 91.409 (f) (4)	Inspection Frequency		Date Last Performed	Notes / Comments		Special Inspection Description
No. 1	Every 12 Mos.		03/23/19	Chk'd./Maint. Verification Flt.		Landing Gear Inspection
No. 2	Every 12 Mos.		03/25/19	Checked		A.D. Notes and All Inspec. & Maint. Check
No. 3	Every 12 Mos.		03/27/19	Chk'd. during Maint. Verif. Flt.		Elec. Sys. & Avionics Check
No. 4	Every 24 Mos.		4/4 & 6/18	Altimeters chk'd. to 20,000'		Pitot Static, Altimeter & Transponder Check.
No. 5	Every 60 Mos.		01/16/19	Per CFR 49 180.205; Due 01/16/24		Hydro. Test CO ₂ Gas Cylinders (Fire Bottles)
No. 6	Every 24 Months		03/13/18	New battery due April 2020		Replace ELT Battery

Certificate Special Airworthiness Serial No. 77235
Boeing Serial No. 44-83872
Approved Continuous Inspection Program Per: FAR 91.409 (f) (4)

Updated: 03/26/19

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INSPECTION #1

PAGE 1

Date 11-01-2022

Aircraft Total Time 9,228.0

A. ENGINES #1, #2, #3 & #4

MECH / INSP

1. TS / TB Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowling as necessary
2. TS / TB Inspect cylinders, hold down studs, baffles, intake tubes, push rod covers and hoses for condition and security
3. TS / TB Inspect exhaust system for cracks, holes and broken sections
4. TS / TB Check cowl flaps and actuating mechanism for operation
5. TS / TB Inspect nose and power case for condition and security
6. TS / TB Inspect propeller governor, controls and feathering lines for condition and security
7. TS / TB Inspect propeller for condition of blades, hub, dome and oil leaks
8. TS / TB Inspect accessory case, lines, attachments, vents, dishpan for condition and security
9. TS / TB Operational and leak check of fuel and oil systems
10. TS / TB Inspect nose case thrust plate nuts for condition and security
11. TS / TB Pressure check of power and accessory section, check for fuel and oil leaks
12. TS / TB Inspect all accessories for condition and security
13. TS / TB Inspect all lines and blast tubes for condition and security
14. DC / XX Collect oil samples-all engines
15. AM / TB Remove, inspect & replace external oil filter (Airwolf)

B. NACELLES #1, #2, #3 & #4

MECH / INSP

1. TS / TB Inspect skin stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS / TB Inspect plumbing and wiring for condition and security
3. TS / TB Inspect engine mount, attachments and oil tank for condition, security and oil leaks
4. TS / TB Inspect exhaust heat shields for condition and security

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AAIP

INSPECTION #1 (CONT.)

PAGE 2

C. BATTERIES

MECH / INSP

1. TS / TB Inspect condition, wiring and venting

D. FUSELAGE, LEFT & RIGHT WINGS (Ailerons & Flaps)

MECH / INSP

1. TS / TB Inspect skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TB / TB Inspect attachments at wing to fuselage, aileron attachment and outer wing panel bolts for condition and security
3. TS / TB Inspect fuel cells for condition and security
4. TS / TB Inspect fuel lines for condition and security
5. LB / TB Inspect fuel caps for security, proper fuel quantity and minimum octane rating placards
6. TS / TB Inspect ailerons and fabric for condition and security
7. TB / TB Inspect flaps for condition and security

E. HORIZONTAL & VERTICAL STABILIZERS, ELEVATORS & RUDDER

MECH / INSP

1. TS / TB Inspect skin, stringers and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS / TB Inspect elevators and fabric (L & R) for condition and security
3. TS / TB Inspect rudder and fabric for condition and security

F. ELECTRICAL SYSTEM

MECH / INSP

1. TS / XX Check landing, navigation and rotating beacon bulbs for operation
2. TS / XX Check instrument and interior lights for operation
3. TS / TB Check condition of generators (4)
4. TS / TB Check electric HYD pump operation, (800 psi +/-25)

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AAIP

INSPECTION #1 (CONT.)

PAGE 3

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
<i>B</i> 2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
<i>TS</i> 3	Lube Screws	Main and Tail Landing Gear
<i>AM</i> 9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

[Redacted Signature]

Signature

A+F [Redacted] *IA*

Certificate #

11-1-2022
Date

9,228.0
Aircraft Total Time

Hobbs 793.0

#1 177.4
#2 630.2
#3 246.8
#4 498.8

SPARK PLUG LOG

FOR N7227C - B-17G

ENGINE #1

DATE 10/13/22 INSP #

PLUG TYPE: TEMPEST

UREB 37E

	A	B	C	D	E	F	G	H
1F							K	
1B	✓	✓	✓	✓	✓	X	0.99	K
2F							K	
2B	✓	✓	✓	✓	✓	X	1.11	K
3F							K	
3B	✓	✓	✓	✓	✓	X	1.50	K
4F							K	
4B	✓	✓	✓	✓	✓		0.97	K
5F							K	
5B	✓	✓	✓	✓	✓	X	1.22	K
6F							K	
6B	✓	✓	✓	✓	✓	X	1.02	K
7F							K	
7B	✓	✓	✓	✓	✓		1.02	K
8F							K	
8B	✓	✓	✓	✓	✓		0.95	K
9F							K	
9B	✓	✓	✓	✓	✓		1.01	K

NEW

NEW

NEW

NEW

NEW

KEY

- A: Wash, paper towel dry, air blast
- B: Inspect insulator, threads, egg shape of center terminal
- C: Clean terminal well
- D: Grit blast (40 psi max)
- E: Check Gap (.016-.018)
- F: Spark test (pressure test 80 to 90 psi)
- G: Resistance test (< 5000 ohms)
- H: Retest (E and or F)

Notes: E1 BR

(1) WEAK ~~SPARK~~ SPARK UNSERVICABLE

(2) " " "

(3) " " "

(5) NOT WORKING

(6) WEAK ~~SPARK~~ SPARK UNSERVICABLE

NEW PLUGS R (1) 0.99

(2) 1.11

(3) 1.50

(5) 1.22

(6) 1.02

DENNIS YOTAW

CAF-GCW
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INSPECTION #4

PAGE 1

Date 2-12-2022

Aircraft Total Time 9,206.2

A. ENGINES #2 AND #4

MECH / INSP

1. DM / JMB Remove all engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowlings as necessary.
2. DM / JMB Inspect and clean main oil strainer
3. JMB / JMB Perform differential compression test:
 - a. Engine #2
*Record on cylinder compression check form
 - b. Engine #4
*Record on cylinder compression check form
4. DM / JMB Clean, gap and test all spark plugs. Replaced (y/n) Y
 - a. Record spark plug type VRHB 37E
 - b. Number replaced and cylinder#'s ENG # 2 - 1, 2, 3, 4, 5, 6, 7, 8, 9 FRONT & REAR
ENG # 4 - 1, 2, 3, 4, 5, 6, 7, 8, 9 FRONT & REAR
5. DM / JMB Check engine timing
6. DM / JMB Inspect magneto points, "P" leads and induction vibrator
7. JD / JMB Check valve clearances as required
8. JD / JMB Inspect engine mounts for condition and security
9. JD / JMB Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. JD / JMB Inspect exhaust system for cracks, holes and broken sections
11. JD / JMB Check cowl flaps and actuating mechanism for operation
12. JD / JMB Inspect nose and power case and blower section for condition and security
13. JD / JMB Inspect propeller governor, controls and feathering lines for condition and security
14. JD / JMB Inspect propeller for condition of blades, hub, dome and oil leaks
15. JD / JMB Inspect accessory case, oil lines, vents and dishpan for condition and security
16. DM / JMB Check ^{42-DC} generators, starter, commutator, ^{42-DC} feathering pump ^{44-DC} motor brushes for electrical attachments and operation
17. JD / JMB Check fuel pump, carburetor, lines, fittings, intake elbow connections, internal baffles, primer operation, mixture idle cut off check, throttle and mixture control stop check for operation and condition

Date 2-12-2022Aircraft Total Time 9,206.2

A. ENGINES #2 AND #4

MECH / INSP

1. DM / Smb Remove all engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowlings as necessary.
2. DM / Smb Inspect and clean main oil strainer
3. Smb / Smb Perform differential compression test:
 - a. Engine #2
 - *Record on cylinder compression check form
 - b. Engine #4
 - *Record on cylinder compression check form
4. DM / Smb Clean, gap and test all spark plugs. Replaced (y/n) Y
 - a. Record spark plug type URHB 37E
 - b. Number replaced and cylinder #'s ENG # 2-1, 2, 3, 4, 5, 6, 7, 8, 9 FRONT & REAR
ENG # 4-1, 2, 3, 4, 5, 6, 7, 8, 9 FRONT & REAR
5. DM / Smb Check engine timing
6. DM / Smb Inspect magneto points, "P" leads and induction vibrator
7. gD / Smb Check valve clearances as required
8. gD / Smb Inspect engine mounts for condition and security
9. gD / Smb Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. gD / Smb Inspect exhaust system for cracks, holes and broken sections
11. gD / Smb Check cowl flaps and actuating mechanism for operation
12. gD / Smb Inspect nose and power case and blower section for condition and security
13. gD / Smb Inspect propeller governor, controls and feathering lines for condition and security
14. gD / Smb Inspect propeller for condition of blades, hub, dome and oil leaks
15. gD / Smb Inspect accessory case, oil lines, vents and dishpan for condition and security
16. DM / Smb Check generators, starter, commutator, feathering pump motor brushes for electrical attachments and operation
17. gD / Smb Check fuel pump, carburetor, lines, fittings, intake elbow connections, internal baffles, primer operation, mixture idle cut off check, throttle and mixture control stop check for operation and condition

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INSPECTION #4 (CONT.)

PAGE 2

MECH / INSP

18. AS / JMB Remove, inspect and replace main oil filter (Airwolf)
19. CD / JMB Check power and accessory section for fuel and oil leaks
(pressure check)
20. JMB / gD Inspect all accessories for condition and security
21. JMB / gD Inspect all lines and blast tubes for condition and security
22. JMB / gD Inspect nose case thrust plate nuts and torque to 300/350
inch/ lbs
23. AS / XX Collect oil samples-all engines

B. NACELLE #1, #2, #3 AND #4

MECH / INSP

1. JMB / gD Inspect skin stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. JMB / gD Inspect plumbing and wiring for condition and security
3. JMB / gD Inspect attachments, engine mount and oil tank for condition
and security
4. JMB / gD Inspect exhaust heat shields for condition and security
5. JMB / gD Inspect induction system ducting, joints and filters for
condition and security

C. BATTERIES

MECH / INSP

1. DM / JMB Inspect batteries and wiring for condition and security

D. FUSELAGE

MECH / INSP

1. JMB / gD Inspect skin, stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. JMB / JMB Inspect wing center section attach fittings for condition and
security
3. DM / JMB Inspect stabilizers attach fittings for condition and security
4. gD / JMB Inspect plumbing and wiring for condition and security
5. JMB / JMB Inspect control cable pulleys, fairleads and cables for
condition security
6. DM / JMB Check flaps and motor for operation, condition and security

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INSPECTION #4 (CONT.)

PAGE 3

- MECH / INSP
7. JMB / JMB Check forward and aft crew doors for operation, condition and security
 8. JMB / XX Check windows and nose glass for operation, condition and security
 9. JMB / JMB Check passenger seats and seat belts for operation, condition and security
 10. JMB / JMB Check cockpit seats and seat belts for operation, condition and security
 11. DM / JMB Check flight controls for operation, clearances and limits (control column and rudder pedals)
 12. JMB / JD Check brakes and parking brake operation
 13. JMB / JD Check engine controls, friction lock and engine switches for operation and condition
 14. JMB / JD Check instruments for operation, condition and placards
 15. DM / JMB Check instrument panel for condition and security
 16. CTR / JMB Check hydraulic power pack operation, fluid level and filter for condition and security
 17. DM / JMB Check instrument air filter for condition and security
 18. DM / JMB Check vacuum pump filters for condition and security (cleaned screens)
 19. DM / JMB Check bomb bay, doors, racks and operating mechanism for operation, condition and security
 20. DM / JMB Inspect top, chin and ball turrets for structure attachments, condition and security
 21. DM / JMB Check fuel transfer valves for operation, condition
 22. CTR / XX Check electric fuse panel and wing relay panels for condition and security (spare fuses)
 23. JD / JMB Check battery and inverter control panel for condition and security
 24. DM / JMB Inspect engine and cabin fire bottles for condition, security and expiration date
 25. CTR / JMB Check radios for operation, condition and security
 26. AS / XX Check first aid kit for contents and security
 27. CTR / JMB Inspect required placards for accuracy and legibility
 28. CTR / XX Check other gear installed for condition and security

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INSPECTION #4 (CONT.)

PAGE 4

E. VERTICAL STABILIZER

MECH / INSP

1. QAD / LMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. QAD / LMB Inspect all attachments for condition and security
3. QAD / LMB Inspect wiring for condition and security

F. HORIZONTAL STABILIZER (left & right)

MECH / INSP

1. QAD / LMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. QAD / LMB Inspect all attachments for condition and security
3. QAD / LMB Inspect wiring for condition and security

G. ELEVATORS (left & right)

MECH / INSP

1. QAD / LMB Inspect elevators and fabric for condition and security
2. QAD / LMB Inspect attachments for condition and security

H. ELECTRICAL SYSTEM

MECH / INSP

1. DM / XX Check landing, navigation and rotating beacon bulbs for operation
2. LMB / XX Check instrument and interior lights for operation
3. JD / LMB Check conditions of generators (4)
4. JD / LMB Check main and spare inverter output (115 volts)
5. JD / LMB Check electric HYD pump pressures (800 psi +/- 25)

I. EMERGENCY EQUIPMENT

MECH / INSP

1. AS / LMB Check Crash Axe (3 locations), check condition and security

COMPRESSION CHECK

ENGINE # 4

Engine 2

CYL 1 78

77

2 80

78

3 80

77

~~4~~ 68

65

5 75

80

6 64

80

7 80

80

8 72

75

9 80

78

CAF-GCW
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INSPECTION #4 (CONT.)

PAGE 5

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

MECH / INSP	SYMBOL	PART DESCRIPTION	LOCATION
DM	JMB2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
JD	JMB3	Lube Screws	Main and Tail Landing Gear
JD	JMB9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature

Certificate #

Date 9-15-2022

Location KBJC Broomfield, CO.

ENG #4	OIL	SAMPLE	(TAKEN),	NEW	OIL FILTER	INSTALLED	JMB
ENG #3	"	"	"	"	"	"	JMB
ENG #2	"	"	"	"	"	"	JMB
ENG #1	"	"	"	"	"	"	JMB

ENG #4 REAR SPARK PLUGS REMOVED & REPLACED

ENG #2 REAR SPARK PLUGS REMOVED & REPLACED

ENG HOBBS

#1	3156.3
#2	4637.6
#3	4694.8
#4	4547.8

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CYLINDER COMPRESSION CHECK RECORD

Date 9-14-2022

Engine Total Time #2 4437.6 (501.9)
#4 4567.8 (380.3)

Engine # 2

#4

Cylinder No. Reading (in PSI) Comments

1	77	78
2	78	80
3	77	80
4	65	68
5	80	75
6	80	64
7	80	80
8	75	72
9	78	80

Reason for compression check:

AAIP INSPECTION #4

Performed by:

GREG DOWNING, TERRY BARKE & CURT ROWE

CAF-GCW
AAIP

INSPECTION #3

PAGE 1

Date 11 AUG 2022 Aircraft Total Time 9189.7

A. ENGINES #1, #2, #3 & #4

MECH / INSP

1. SW JMB Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowling as necessary
2. TS JMB Inspect cylinders, hold down studs, baffles, intake tubes, push rod covers and hoses for condition and security 1,2,3,4
3. TS JMB Inspect exhaust system for cracks, holes & broken sections 1,2,3,4
4. TS JMB Check cowl flaps & actuating mechanism for operation 1,2,3,4
5. TS JMB Inspect nose and power case, condition and security 1,2,3,4
6. TS JMB Inspect propeller governor, controls and feathering lines for condition and security 1,2,3,4
7. TS JMB Inspect propeller for condition of blades, hub, dome and oil leaks 1,2,3,4
8. TS JMB Inspect accessory case, lines, attachments, vents, dishpan for condition and security 1,2,3,4
9. TS JMB Operational and leak check of fuel and oil systems
10. TS JMB Inspect nose case thrust plate nuts for condition and security 1-2,3,4
11. TS JMB Pressure check of power & accessory section, check for fuel and oil leaks
12. TS JMB Inspect all accessories for condition and security 1,2,3,4
13. TS JMB Inspect all lines and blast tubes for condition and security 1-2,3,4
14. DO / XX Collect oil samples-all engines
15. TS JMB Remove, inspect & replace main oil filter (Airwolf)

B. NACELLES #1, #2, #3 & #4

MECH / INSP

1. RW JMB Inspect skin stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS JMB Inspect plumbing and wiring for condition and security
3. TS JMB Inspect engine mount, attachments and oil tank for condition, security and oil leaks
4. TS JMB Inspect exhaust heat shields for condition and security

CAF-GCW
AAIP

INSPECTION #3 (CONT.)

PAGE 2

C. BATTERIES

MECH / INSP

1. SA / SMB Inspect Condition, wiring and venting

D. FUSELAGE, LEFT & RIGHT WINGS (Ailerons & Flaps)

MECH / INSP

1. RW / SMB Inspect Skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets.
2. RW / SMB Inspect attachments at wing to fuselage, aileron attachment and outer wing panel bolts for condition and security
3. RW / SMB Inspect fuel cells for condition and security
4. RW / SMB Inspect fuel lines for condition and security
5. RW / SMB Inspect fuel caps for security, proper fuel quantity and minimum octane rating placards
6. RW / SMB Inspect ailerons and fabric for condition and security
7. RW / SMB Inspect flaps for condition and security

E. HORIZONTAL & VERTICAL STABILIZERS, ELEVATORS & RUDDER

MECH / INSP

1. RW / SMB Inspect skin, stringers and formers for cracks, corrosion, wrinkles, damage and working rivets
2. RW / SMB Inspect elevators and fabric (L&R) for condition and security
3. RW / SMB Inspect rudder and fabric for condition and security

F. ELECTRICAL SYSTEM

MECH / INSP

1. SA / XX Check landing, navigation and rotating beacon bulbs for operation
2. SA / XX Check instrument and interior lights for operation
3. SA / SMB Check condition of generators (4)
4. SA / SMB Check electric HYD pump pressure (800psi +/- 25)

CAF-GCW
AAIP

INSPECTION #3 (CONT.)

PAGE 3

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
SW 2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
AA 3	Lube Screws	Main and Tail Landing Gear
TD 9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature

11 AUG 20 22
Date

AAIP [Redacted] IA
Certificate #

9189.7
Aircraft Total Time

DUPLICATE COPY

INSPECTION #2

PAGE 1

Date 6-21-2022

Aircraft Total Time 9165.3

Hobb 730.3

A. ENGINES #1 AND #3

AAIP

1. TS / JMI Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowlings as necessary.

3. TS / JMB Perform differential compression test;

a. Engine #1 [#]1-76, 2-72, 3-78, 4-66, 5-77, 6-18, 7-77, 8-64, 9-60
*Record on cylinder compression check form

b. Engine #3 ¹1-70, ²2-71, ³3-73, ⁴4-74, ⁵5-74, ⁶6-68, ⁷7-68, ⁸8-64, ⁹9-74
*Record on cylinder compression check form

4. DV/_____ Clean, gap and test all spark plugs. Replaced (y/n) y

a. Record spark plug type TEMPEST UREG 37E

b. Number replaced and cylinder #'s E1C8BR, C5BR E3 C1FR C9FR

5. B / _____ Check engine timing

6. 13 / ____ Inspect magneto points, "P" leads and induction vibrator

7. 1/11/13 Check valve clearances as required — winter

8. T5 17/13 Inspect engine mounts for condition and security

9. B & M B Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and

security

10. ~~a~~ ~~1~~ ~~4~~ ~~1~~ ~~3~~ Inspect exhaust system for cracks, holes and broken sections

11. 05 / ____ Check cowl flaps and actuating mechanism for operation

12. 13 / ___ Inspect nose and power case and blower section for
condition and security

13. TS / ____ Inspect propeller governor, controls and feathering lines
for ____ condition and security

14. 17 15MB inspect propeller for condition of blades, hub, dome and oil leaks

15. TS / JMD inspect accessory case, oil lines, vents and dishpan for condition and security

16. LB / ____ Check generator, starter, commutator and feathering pump motor brushes for electrical

17. B / Check fuel pump, carburetor, lines, fittings, intake elbow connections, internal baffles, primer operation, mixture

idle	cut off check, throttle and mixture control
stop check for	operation and condition

LB: TO
ENG #3

B #1 ENG

PRE-OIL

LB
#1 ENG

LB: TO
ENG #3

CAF-GCW

AAIP

INSPECTION #2 (CONT.)

PAGE 2

MECH / INSP

18. TD / Remove, inspect and replace main oil filter (Airwolf)
19. B / Check power and accessory section for fuel and oil leaks
(pressure check)
20. TS / JMB Inspect all accessories for condition and security
21. TS / JMB Inspect all lines and blast tubes for condition and security
22. TS / Inspect nose case thrust plate nuts and torque to
300/350
inch / pounds
23. BG / XX Collect oil samples-all engines

B. NACELLE #1, #2, #3 AND #4

MECH / INSP

1. TS / JMB Inspect skin stringers, bulkheads and formers for cracks,
corrosion, wrinkles for damage and working rivets
2. TS / JMB Inspect plumbing and wiring for condition and security
3. TS / JMB Inspect attachments, engine mount and oil tank for
condition and security
4. DS / JMB Inspect exhaust heat shields for condition and security
5. / JMB Inspect Induction system ducting, joints and filters for
condition and security

C. BATTERIES

MECH / INSP

1. BG / JMB Inspect batteries and wiring for condition and security

D. FUSELAGE

MECH / INSP

1. TS / JMB Inspect skin, stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. TS / JMB Inspect wing center section attach fittings for condition
and security
3. TS / JMB Inspect stabilizers attach fittings for condition and
security
4. TS / Inspect plumbing and wiring for condition and security
5. TS / JMB Inspect control cable pulleys, fairleads and cables for
condition and security
6. LB / Check flap motor for operation, condition and security

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INSPECTION #2 (CONT.)

PAGE 3

MECH / INSP

7. TS / SMB Check forward and aft crew doors for operation, condition and security ✓
8. TS / XX Check windows and nose glass for operation. condition and security ✓
9. TS / SMB Check passenger seats and seat belts for operation, condition and security
10. TS / SMB Check cockpit seats and seat belts for operation, condition and security
11. B / SMB Check flight controls for operation, clearances and limits (Control column & rudder pedals)
12. MG / Check brakes and parking brake operation
13. BK / Check engine controls, friction lock and engine switches for operation and condition
14. BG / Check instruments for operation, condition and placards
15. / SMB Check instrument panel for condition and security ✓
16. BG / Check hydraulic power pack operation, fluid level and filter for condition and security ✓
17. TS / Check instrument air filter for condition and security
18. TS / Check vacuum pump filters for condition and security
19. TS / SMB Check bomb bay, doors, racks and operating mechanism for operation, condition and security
20. TS / SMB Inspect top, chin and ball turrets, for structure attachments, condition and security ✓
21. BG / Check fuel transfer valves for operation and condition ✓
22. TS / XX Check electric fuse panel and wing relay panels for condition and security (spare fuses)
23. B / Check battery and inverter control panel for condition and security
24. LB / Inspect engine and cabin fire bottles for condition, security and expiration date — OK LB (6) @ OK LB
25. / SMB Check radios for operation, condition and security
26. TS / XX Check first aid kit for contents and security
27. TS / Inspect required placards for accuracy and legibility
28. TS / XX Check other gear installed for condition and security

CAF-GCW
AAIP

INSPECTION #2 (CONT.)

PAGE 4

E. VERTICAL STABILIZER

MECH / INSP

1. TS / AMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS / AMB Inspect all attachments for condition and security
3. TS / AMB Inspect wiring for condition and security

F. HORIZONTAL STABILIZER (left & right)

MECH / INSP

1. TS / AMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS / AMB Inspect attachments for condition and security
3. TS / AMB Inspect wiring for condition and security

G. ELEVATORS (left & right)

MECH / INSP

1. TS / AMB Inspect elevators and fabric for condition and security
2. TS / AMB Inspect attachments for condition and security

H. ELECTRICAL SYSTEM

MECH / INSP

1. LB/BG / XX Check landing, navigation and rotating beacon bulbs for operation OK
2. LB/BG / XX Check instrument and interior lights for operation OK
3. / Check condition of generators (4) OK
4. LB/BG / Check main and spare inverter output (115 volts)
5. LB/BG / Check electric HYD pump pressure (800 psi +/-25)

ACC. CHARGE PRESS = 325 PSI ✓

I. EMERGENCY EQUIPMENT

MECH / INSP

1. TS / AMB Check crash Axe (3 locations) for condition and security

ENG	IND	VIB
1	OK	
2	-	Replaced
3	OK	
4	OK	

CAF-GCW
AAIP

INSPECTION #2 (CONT.)

PAGE 5

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2 <i>FS</i>	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
3 <i>TS</i>	Lube Screws	Main and Tail Landing Gear
9 <i>JE</i>	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

[REDACTED]

TERRY M. BARKER
Signature

MAINTENANCE OFFICER

A&P [REDACTED] IIA
Certificate #

6-30-2022
Date

KCXO
Location

ENGINE COMPRESSION

1

3

1 80/76
2 80/72
3 80/78
4 80/66
5 80/77
6 80/78
7 80/77
8 80/64
9 80/60

1 80/70
2 80/71
3 80/78
4 ~~80/74~~
5 80/74
6 80/68
7 80/68
8 80/64
9 80/74

LIGHTS

L. LANDING	OK
R. LANDING	OK
L. WING POSITION	OK
L. WING STROBE	OK
R. WING POSITION	OK
R. WING STROBE	OK

TR FIRE EXT.

	GREEN	TAG LAST INSPECTION
1) WAIST DOOR	OK	1/2022
2) RADIO R. REAR	NO GAGE	1/2021
3) RADIO R. FWD	OK	1/2022
4) PIC SEAT	OK	2/2022
5) SW SEAT	OK	2/2022
6) NOSE	NO GAGE	1/2022

PAGE 1

Aircraft Total Time 9165.3

Hobb 730.3

A. ENGINES #1 AND #3

14

- a. Record spark plug type TEMPEST UREB 37C
- b. Number replaced and cylinder #'s E1C 8 BR, C5BR E3 C1FR C9FR
5. B 15MB Check engine timing
6. TS 15MB Inspect magneto points, "P" leads and induction vibrator
7. TS 15MB Check valve clearances as required — Winter
8. TS 15MB Inspect engine mounts for condition and security
9. TS 15MB Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. TS 15MB Inspect exhaust system for cracks, holes and broken sections
11. TS 15MB Check cowl flaps and actuating mechanism for operation
12. TS 15MB Inspect nose and power case and blower section for condition and security
13. TS 15MB Inspect propeller governor, controls and feathering lines for condition and security
14. TS 15MB Inspect propeller for condition of blades, hub, dome and oil leaks
15. TS 15MB Inspect accessory case, oil lines, vents and dishpan for condition and security
16. LB 15MB Check generator, starter, commutator and feathering pump motor brushes for electrical attachments and operation
17. TS 15MB Check fuel pump, carburetor, lines, fittings, intake elbow connections, internal baffles, primer operation, mixture cut off check, throttle and mixture control operation and condition

15

CAF-GCW AAIP

MECH / INSP

1. TS / JMB Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowling as necessary.
2. DW / LMB Inspect and clean main oil strainer
3. TS / JMB Perform differential compression test;
 - a. Engine #1 #1-76, 2-72, 3-78, 4-60, 5-77, 6-18, 7-77, 8-64, 9-60
*Record on cylinder compression check form
 - b. Engine #3 #1-70, 2-71, 3-78, 4-74, 5-74, 6-68, 7-68, 8-64, 9-74
*Record on cylinder compression check form
4. DV / JMB Clean, gap and test all spark plugs. Replaced (y/n) Y
 - a. Record spark plug type TEMPEST URE B 37C
 - b. Number replaced and cylinder #'s E1C 8 BR, C5BR E3 C1FR C9FR
5. B / JMB Check engine timing
6. TS / JMB Inspect magneto points, "P" leads and induction vibrator
7. TS / JMB Check valve clearances as required — WINTER
8. TS / JMB Inspect engine mounts for condition and security
9. B / JMB Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. TS / JMB Inspect exhaust system for cracks, holes and broken sections
11. TS / JMB Check cowl flaps and actuating mechanism for operation
12. TS / JMB Inspect nose and power case and blower section for condition and security
13. TS / JMB Inspect propeller governor, controls and feathering lines for condition and security
14. TS / JMB Inspect propeller for condition of blades, hub, dome and oil leaks
15. TS / JMB Inspect accessory case, oil lines, vents and dishpan for condition and security
16. LB / JMB Check generator, starter, commutator and feathering pump motor brushes for electrical attachments and operation
17. B / JMB Check fuel pump, carburetor, lines, fittings, intake elbow connections, internal baffles, primer operation, mixture cut off check, throttle and mixture control operation and condition

LB TD ENG #3
LB #1 ENG
PRE-OIL
LB #1 ENG
LB TD ENG #3

CAF-GCW

AAIP

INSPECTION #2 (CONT.)

PAGE 2

MECH / INSP

18. TD / ~~AMB~~ Remove, inspect and replace main oil filter (Airwolf)
19. B / ~~AMB~~ Check power and accessory section for fuel and oil leaks
(pressure check)
20. TS / ~~AMB~~ Inspect all accessories for condition and security
21. TS / ~~AMB~~ Inspect all lines and blast tubes for condition and security
22. TS / ~~AMB~~ Inspect nose case thrust plate nuts and torque to
300/350
inch / pounds
23. BG / XX Collect oil samples-all engines

B. NACELLE #1, #2, #3 AND #4

MECH / INSP

1. TS / ~~AMB~~ Inspect skin stringers, bulkheads and formers for cracks,
corrosion, wrinkles for damage and working rivets
2. B / ~~AMB~~ Inspect plumbing and wiring for condition and security
3. TS / ~~AMB~~ Inspect attachments, engine mount and oil tank for
condition ~ and security
4. DS / ~~AMB~~ Inspect exhaust heat shields for condition and security
5. TS / ~~AMB~~ Inspect Induction system ducting, joints and filters for
condition and security

C. BATTERIES

MECH / INSP

1. BG / ~~AMB~~ Inspect batteries and wiring for condition and security

D. FUSELAGE

MECH / INSP

1. TS / ~~AMB~~ Inspect skin, stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. TS / ~~AMB~~ Inspect wing center section attach fittings for condition
and security
3. TS / ~~AMB~~ Inspect stabilizers attach fittings for condition and
security
4. TS / ~~AMB~~ Inspect plumbing and wiring for condition and security
5. TS / ~~AMB~~ Inspect control cable pulleys, fairleads and cables for
condition and security
6. LB / ~~AMB~~ Check flap motor for operation, condition and security

CAF-GCW
AAIP

INSPECTION #2 (CONT.)

PAGE 3

MECH / INSP

7. TS / SMB Check forward and aft crew doors for operation, condition ✓ and security ✓
8. TS / XX Check windows and nose glass for operation. condition and security ✓
9. TS / SMB Check passenger seats and seat belts for operation, condition and security
10. TS / SMB Check cockpit seats and seat belts for operation, condition and security
11. B / SMB Check flight controls for operation, clearances and limits (Control column & rudder pedals)
12. BG / SMB Check brakes and parking brake operation
13. BG / SMB Check engine controls, friction lock and engine switches for operation and condition
14. BG / SMB Check instruments for operation, condition and placards
15. TS / SMB Check instrument panel for condition and security ✓
16. BG / SMB Check hydraulic power pack operation, fluid level and filter for condition and security ✓
17. TS / SMB Check instrument air filter for condition and security
18. TS / SMB Check vacuum pump filters for condition and security
19. TS / SMB Check bomb bay, doors, racks and operating mechanism for operation, condition and security
20. TS / SMB Inspect top, chin and ball turrets, for structure attachments, condition and security ✓
21. BG / SMB Check fuel transfer valves for operation and condition ✓
22. TS / XX Check electric fuse panel and wing relay panels for condition and security (spare fuses)
23. B / SMB Check battery and inverter control panel for condition and security
24. LB / SMB Inspect engine and cabin fire bottles for condition, security and expiration date — OK LB (G) OK LB
25. TS / SMB Check radios for operation, condition and security
26. TS / XX Check first aid kit for contents and security
27. TS / SMB Inspect required placards for accuracy and legibility
28. TS / XX Check other gear installed for condition and security

CAF-GCW AAIP

INSPECTION #2 (CONT.)

PAGE 4

E. VERTICAL STABILIZER

MECH / INSP

1. TS / JMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS / JMB Inspect all attachments for condition and security
3. TS / JMB Inspect wiring for condition and security

F. HORIZONTAL STABILIZER (left & right)

MECH / INSP

1. TS / JMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS / JMB Inspect attachments for condition and security
3. TS / JMB Inspect wiring for condition and security

G. ELEVATORS (left & right)

MECH / INSP

1. TS / JMB Inspect elevators and fabric for condition and security
2. TS / JMB Inspect attachments for condition and security

H. ELECTRICAL SYSTEM

MECH / INSP

1. LB/BG / XX Check landing, navigation and rotating beacon bulbs for operation OK
2. LB/BG / XX Check instrument and interior lights for operation OK
3. RW / JMB Check condition of generators (4) OK
4. LB/BG / JMB Check main and spare inverter output (115 volts) OK
5. LB/BG / JMB Check electric HYD pump pressure (800 psi +/-25) OK

ACC. CHARGE PRESS = 325 PSI ✓

I. EMERGENCY EQUIPMENT

MECH / INSP

1. TS / JMB Check crash Axe (3 locations) for condition and security

ENG	IND	VIB
1	OK	
2	-	Replined
3	OK	
4	OK	

CAF-GCW
AAIP

INSPECTION #2 (CONT.)

PAGE 5

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2 <i>FS</i>	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
3 <i>TS</i>	Lube Screws	Main and Tail Landing Gear
9 <i>EV</i>	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.


TERRY M. BARKER
Signature

MAINTENANCE OFFICER
A & P  IIA
Certificate #

6-30-2022
Date

KCXD
Location

ENGINE COMPRESSION

1

3

1 80/76
2 80/72
3 80/78
4 80/66
5 80/77
6 80/78
7 80/77
8 80/64
9 80/60

1 80/70
2 80/71
3 80/78
4 ~~80/74~~
5 80/74
6 80/68
7 80/68
8 80/64
9 80/74

LIGHTS

L. LANDING	OK
R. LANDING	OK
L. WING POSITION	OK
L. WING STAB	OK
R. WING POSITION	OK
R. WING STAB	OK

TR FIRE EXT.

	GREEN	TAG LAST INSPECTION
1) WAIST DOOR	OK	1/2022
2) RADIO R. REAR	NO GAGE	1/2022
3) RADIO R. FWD	OK	1/2022
4) PIC SEAT	OK	2/2022
5) SW SEAT	OK	2/2022
6) NOSE	NO GAGE	1/2022 1/2022

Commemorative Air Force / Gulf Coast Wing
B-17G / Tussock Raiders
N722/C
WINTER MAINTENANCE 2020 - 2021

Item No.	Work Item Description	Lead	Start Date	Complete Date	Status / Comments
19.					
20.	Grease all "lube" fittings.				Ref.: T.O. AN 01-20EG-2, Fig. 43, pgs. 52 & 53, Rev. 08/25/44.
21.	Remove all floor boards and clean, reinstall (after application of Corrosion-X)				Vacuumed, wiped clean. Apply Corrosion-X with paint brush ~ 1/3 up each interior sidewall of fuselage.
22.	Apply Corrosion-X to all surfaces:				"Paint", fog, or pour application
A.	Fuselage underneath floor boards				Apply with paint brush (see 19. above)
B.	Inside of all enclosed surfaces				Fogging - Wings, including flaps, horizontal & vertical stabilizers
C.	Wing spars				Pour - into wing spar @ connection joints.
D.	Other areas				As required
23.	Fog all 4 Engines with MMO				
24.	Repair/rework/replace Cowl flaps as needed.	Dennis Votaw			
25.	Annual replacement of vacuum system air filter.				Replaced vacuum system air filter; P/N: Rapco Fltr. RAB3-5-1
26.	Check/replace bonding straps as required.				Especially Eng's. # 2 & 4
27.	Inspect all engine I/L air system, especially blow-out panels.	David Madden			
28.	Inspect engine air I/L filters.	Dave Madden			Filters will not be changed unless found to require change-out (due to limited flying during 2020 @ < 35 hours total)
29.	Diagnose/repair LG (all 3) transitioning lights				Requires TR to be on jacks to cycle LG

CAF-GCW AAIP



Texas Raider
B17 N7227G

Maintenance Discrepancy
And Work Document



Discrepancy:

Date: 1/1/22Initials: PDW

AAIP Inspections
#1, 2, 3, 4

AAIP Special Due
Inspections 1-6 Due

Corrective Action:

Date: 3/31/22Initials: PDW

Completed AAIP Inspections
#1, 2, 3, 4 and AAIP Special
Inspections #1, 2, 3, 4, 5, 6
Maint. flight. Reg'd

Item:

P/N:

S/N:

IAW: CAF B17 AAIP

Removed: Initials: _____

Date: _____

Part #: NA

Serial #: _____

This aircraft has been inspected in accordance with the CAF-GCW approved aircraft inspection program and in accordance with 14 CFR Part 91.409(F)(5) is approved for return to service.

A&P # [REDACTED] A&P # [REDACTED] AFTT
3/31/22 A&P ETT: 9/16.7

Discrepancy:

Date: 4/3/22Initial: PDW

Required
Maintenance
Flight

Corrective Action:

Date: 4/3/22Initials: [Signature]

Maintenance flight completed
All systems operating within
limits, aircraft OK for return
to service. AFTT

Item:

P/N:

S/N:

IAW:

Removed: Initials: _____

Date: _____

Part #: NA

Serial #: _____

This aircraft has been inspected in accordance with the CAF-GCW approved aircraft inspection program and in accordance with 14 CFR Part 91.409(F)(5) is approved for return to service.

A&P # [REDACTED] A&P # [REDACTED] AFTT
A&P ETT: 9/16.7

CAF-GCW AAIP



Texas Raider
B17 N7227G

Maintenance Discrepancy
And Work Document



Discrepancy: Date: <u>1/4/2022</u> Initials: <u>PLB</u> DAMAGED LORDE MOUNTS DISCOVERED DURING WINTER MAINTENANCE ON ENGINE #1.	Corrective Action: Date: <u>1/4/2022</u> → <u>1/8/2022</u> Initials: <u>PLB / TS / JW</u> ENGINE #1 TO BE REMOVED TO REPLACE LORDE MOUNTS AND ASSOCIATED MAINTENANCE OF 200 DYNAFOLDS, ALL HOSES MARKED IN PREPARATION OF ENGINE #1 REMOVAL. HOSES DISCONNECTED AND CAPPED. ALL LINKAGES REMOVED. ENGINE #1 AND MOUNT REMOVED 1/8/2022. Item: _____ P/N: _____ S/N: _____
Removed: _____ Initials: _____ Date: _____ Part #: _____ Serial #: _____	IAW: <u>AN 01-20EG-2 SEC IV</u> Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____

Discrepancy: Date: <u>1/20/22</u> Initial: <u>RW / DW</u> Removed both fuel psi gages for overhaul. Eng 1+2 P/N 6007 S/N 200363 Eng 3+4 P/N 6007 S/N 200392	Corrective Action: Date: _____ Initials: _____ Item: _____ P/N: _____ S/N: _____
Removed: _____ Initials: _____ Date: _____ Part #: _____ Serial #: _____	IAW: _____ Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____

CAF-GCW AAIP



Texas Raider
B17 N7227G

Maintenance Discrepancy
And Work Document



Discrepancy: Date: <u>2/15/2022</u> Initials: <u>PLB</u> GENERATOR #3 NOT FUNCTIONING	Corrective Action: Date: <u>2/15/2022</u> Initials: <u>PLB</u> REPLACED VOLTAGE REGULATOR FOR ENGINE #3
	Item: P/N: <u>1589-1-D</u> S/N: <u>FB3436</u>
Removed: _____ Initials: _____ Date: <u>2/15/2022</u> Part #: <u>AAF SPEC 94-32276-B</u> Serial #: <u>Y-79887</u>	IAW: <u>AN 01-20EG-4</u> <u>PAGE 182</u> Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____

Discrepancy: Date: <u>2/10/2022</u> Initial: <u>LB</u> INSPECT ALL CONTROL CABLES & PULVEYS	Corrective Action: Date: <u>2/15/2022</u> Initials: <u>LB</u> - CABLES OK - LUBRICATED ALL PULVEYS
	Item: P/N: _____ S/N: _____
Removed: _____ Initials: _____ Date: _____ Part #: _____ Serial #: _____	IAW: _____ Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____

CAF-GCW AAIP



Texas Raider
B17 N7227G

Maintenance Discrepancy
And Work Document



Discrepancy: Date: <u>Feb 17, 2022</u> Initials: <u>DSC</u> Air filter elements in service one per	Corrective Action: Date: <u>Feb 17, 2022</u> Initials: <u>DSC</u> Air filter elements - 3 each on all four engines replaced - BA-184, element Also replaced blow-out panels with thiner panels and shrouds Flapper doors Item: P/N: BA-184 S/N:
Removed: _____ Initials: _____ Date: _____ Part #: _____ Serial #: _____	IAW: _____ Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____

Discrepancy: Date: <u>3/30/2022</u> Initial: <u>PLB</u>	Corrective Action: Date: <u>3/30/2022</u> Initials: <u>PLB</u> INSTALLED NEW LANDING GEAR MOTOR FOR TAIL GEAR Item: P/N: 1227-1-A S/N: BG2838
Removed: _____ Initials: <u>PLB</u> Date: <u>3/30/2022</u> Part #: <u>1227-1-A</u> Serial #: <u>169</u>	IAW: _____ Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____

Texas Raiders
B-17G N7227C



MAINTENANCE DISCREPANCY and WORK DOCUMENT



REV. 2/24/2019

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
6/18/22	DL		6/18/22	JR/DL	JR
DISCREPANCY BROKEN TAIL WHEEL LOCK PIN			CORRECTIVE ACTION REMOVED & REPLACED TAIL WHEEL LOCK PIN W/ SERVICEABLE UNIT [REDACTED] M/P [REDACTED]		

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
DISCREPANCY			CORRECTIVE ACTION		

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
DISCREPANCY			CORRECTIVE ACTION		

NOTES:

1. Reference = Technical / Maintenance Manual Page number and Paragraph
2. If disassembly is involved, list temporary storage location of removed parts

Commemorative Air Force / Gulf Coast Wing
B-17G
N7227C

FLIGHT CONTROL SURFACE RIGGING REQUIREMENTS

Performed By: Terry Barker

Date: 2-17-2022

Ambient Temp.: 73°F

CONTROL SURFACE	CABLE SIZE (DIA.)	*CABLE TENSION			TRAVEL UP – DEGREES / IN.		TRAVEL DOWN – DEGREES / IN.	
		SPEC.	ACTUAL		SPEC.	ACTUAL	SPEC.	ACTUAL
			L/H	R/H				
Aileron - Sngl. Cable	3/16"	160 Lbs. +/- 10	166	167				
Aileron – Dbl. Cable # 1	3/16"	80 Lbs. +/- 10	81	79	12° / 4"		12° / 4"	
Aileron – Dbl. Cable # 2	3/16"	80 Lbs. +/- 10	86	84	NA		NA	
Trim Tab	3/32"	40 Lbs. +/- 10	TOP 38	30 TOP 36	15° / 1-13/16"		15° / 1-13/16"	
Rudder -	3/16"	130 Lbs. +/- 10	138	140	22° / 17-5/16"	Left	22° / 17-5/16"	Right
Trim Tabs	3/32"	40 Lbs. +/- 10	38	42	22° / 3-13/16"	Left	22° / 3-13/16"	Right
Elevator – Dbl. Cable # 1	3/16"	140 Lbs. +/- 10	148	147	23° / 14-½"		14° / 8-7/8"	
Elevator – Dbl. Cable # 2	3/16"	140 Lbs. +/- 10	150	150				
Trim Tabs	3/32"	40 Lbs. +/- 10	42	42	22° / 4-15/16"		22° / 4-15/16"	
Flaps -	Torque Tube	~	~	~	~	~	45°	

Source: T.O. AN 01-20EG-2, Rev. 08/25/44, Pg. 3, Pg. 223 & Fig. 241, Pg. 227 & Fig. 246, Pg. 229 & Fig. 249, and Pg. 230 & Fig. 250.

NOTES: Type Tensiometer: PACIFIC SCIENTIFIC T-5

Last Calibrated: APR/09/2021 Next Cal. Due: APR/09/2022

Control surfaces movement tolerance @ +/- 2°

*Cable Tensions Set @ 70° F (21° C)

Cable # 1 taken as upper, or outboard cable; Cable # 2 taken as lower, inboard cable.

CAF-GCW
AAIP

INSPECTION #1

PAGE 1

Date 3-3-2022

Aircraft Total Time 9140.1

A. ENGINES #1, #2, #3 & #4

MECH / INSP

1. TS Land Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowling as necessary
2. TS Land Inspect cylinders, hold down studs, baffles, intake tubes, push rod covers and hoses for condition and security
3. TS Land Inspect exhaust system for cracks, holes and broken sections
4. TS Land Check cowl flaps and actuating mechanism for operation
5. TS Land Inspect nose and power case for condition and security
6. TS Land Inspect propeller governor, controls and feathering lines for condition and security
7. TS Land Inspect propeller for condition of blades, hub, dome and oil leaks
8. TS Land Inspect accessory case, lines, attachments, vents, dishpan for condition and security
9. TS Land Operational and leak check of fuel and oil systems
10. TS Land Inspect nose case thrust plate nuts for condition and security
11. TS Land Pressure check of power and accessory section, check for fuel and oil leaks
12. TS Land Inspect all accessories for condition and security
13. TS Land Inspect all lines and blast tubes for condition and security
14. TS Land / XX Collect oil samples-all engines
15. TS Land Remove, inspect & replace external oil filter (Airwolf)

B. NACELLES #1, #2, #3 & #4

MECH / INSP

1. TS Land Inspect skin stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS Land Inspect plumbing and wiring for condition and security
3. TS Land Inspect engine mount, attachments and oil tank for condition, security and oil leaks
4. TS Land Inspect exhaust heat shields for condition and security

CAF-GCW
AAIP

INSPECTION #1 (CONT.)

PAGE 2

C. BATTERIES

MECH / INSP

1. PAW / PAW Inspect condition, wiring and venting

D. FUSELAGE, LEFT & RIGHT WINGS (Ailerons & Flaps)

MECH / INSP

1. PAW / JMB Inspect skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. PAW / JMB Inspect attachments at wing to fuselage, aileron attachment and outer wing panel bolts for condition and security
3. PAW / JMB Inspect fuel cells for condition and security *
4. PAW / JMB Inspect fuel lines for condition and security
5. PAW / JMB Inspect fuel caps for security, proper fuel quantity and minimum octane rating placards
6. PAW / JMB Inspect ailerons and fabric for condition and security
7. PAW / JMB Inspect flaps for condition and security

E. HORIZONTAL & VERTICAL STABILIZERS, ELEVATORS & RUDDER

MECH / INSP

1. PAW / JMB Inspect skin, stringers and formers for cracks, corrosion, wrinkles, damage and working rivets
2. PAW / JMB Inspect elevators and fabric (L & R) for condition and security
3. TS / JMB Inspect rudder and fabric for condition and security

F. ELECTRICAL SYSTEM

MECH / INSP

1. PAW / XX Check landing, navigation and rotating beacon bulbs for operation
2. TS / XX Check instrument and interior lights for operation
3. AB / PAW Check condition of generators (4)
4. PAW / JMB Check electric HYD pump operation, (800 psi +/-25)

ENG #1 GEN - elect. cleaned OK, LB 12/16/21	ENG #2 GEN - Replaced worn BRUSHES - elect. cleaned OK LB, 14 12/14/21	ENG #3 GEN - elect. cleaned OK LB, 12/14/2021	ENG #4 - elect. cleaned OK fB 1/6/2022
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AAIP

INSPECTION #1 (CONT.)

PAGE 3

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
TS 2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
TS 3	Lube Screws	Main and Tail Landing Gear
TSB 9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

[Redacted Signature]

Signature

AAIP [Redacted] IA
Certificate #

3-3-2022
Date

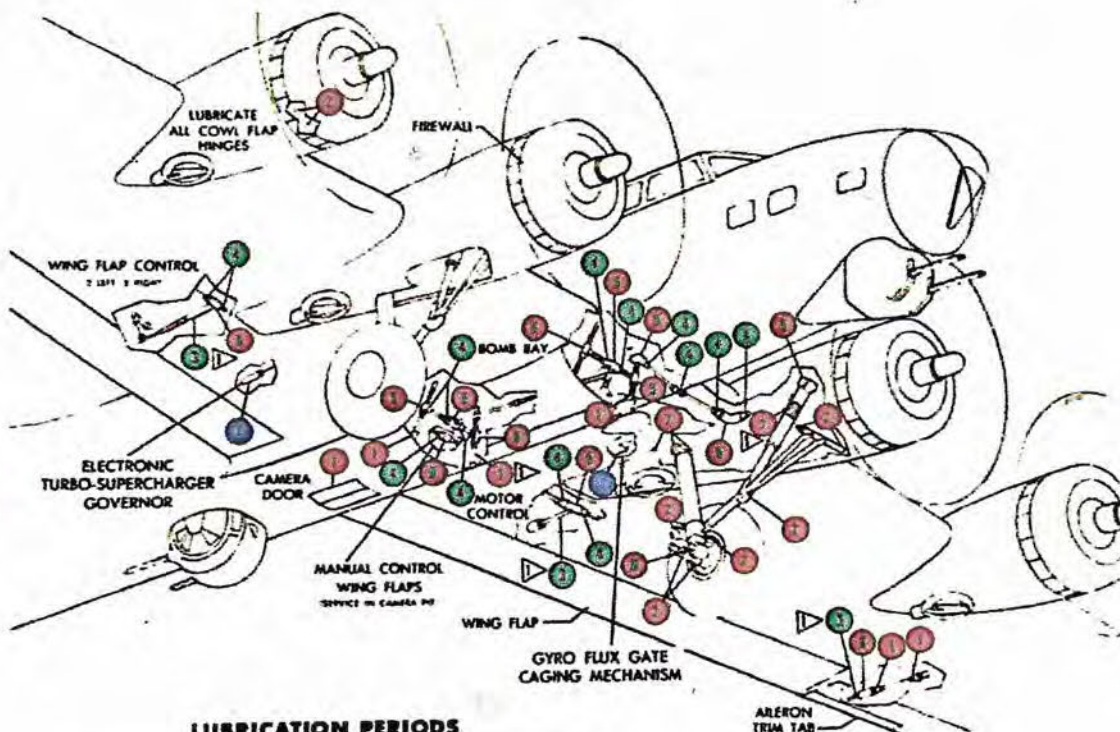
9140.1
Aircraft Total Time

CAF-GCW AAIP

LUBRICATION SCHEDULE (INSPECTIONS: 1, 2, 3 & 4)

Date 3-19-2022

Aircraft Total Time 9140.1



LUBRICATION PERIODS

SYMBOL	PARTS	LOCATION
25 HOURS		
1	EXPOSED UNIVERSALS	AILERON TRIM TAB CONTROL
1	TERMINAL ASSEMBLY	BOMB DOOR RETRACTING SCREWS
1	FOOT PEDAL STIRRUPS	CONTROL CABIN (NOT SHOWN)
1	PEDAL AND BRAKE ROD CONTROLS	CONTROL CABIN (NOT SHOWN)
1	PEDAL ADJUSTMENT GUIDE	CONTROL CABIN (NOT SHOWN)
1	HANDLE ASSY. STARTER CONTROL	CONTROL CABIN (NOT SHOWN)
1	RUDDER AND ELEVATOR LOCK PINS	CONTROL CABIN (NOT SHOWN)
1	(CAUTION: DO NOT LUBRICATE ENGAGING AREAS OF LOCK PIN.)	
1	DOOR HINGES AND LOCKS	
1	AILERON, RUDDER AND TAB INDICATOR	TAIL ASSEMBLY
1	ALL OTHER EXPOSED UNIVERSALS	
1	PINNED JOINTS AND LATCHES	
2	ZERK FITTINGS	BOMB BAY
3	RETRACTING SCREWS	MAIN LANDING GEAR
3	RETRACTING SCREWS	TAIL WHEEL GEAR
3	RETRACTING SCREWS	

SYMBOL	PARTS	LOCATION
100 HOURS		
3	GEAR BOXES	SEE DIAGRAM
6	BEARINGS	SEE DIAGRAM
200 HOURS		
7	TACHOMETER SHAFTS	NACELLE 1, 2, 3, AND 4
8	CABLES (NOT SHOWN)	PULLEY GROOVES AND FAIRLEADS
500 HOURS		
3	RETRACTING SCREWS	WING FLAP
3	RETRACTING SCREWS	AILERON TRIM TAB
3	RETRACTING SCREWS	ELEVATOR TRIM TABS
4	ENCASED UNIVERSALS	SEE DIAGRAM
7	CONTROL INSTALLATION	BOMB RACKS AND DOORS

Figure 43—Lubrication Chart (Sheet 2 of 2)

CAF-GCW AAIP

LUBRICATION INSTRUCTIONS

- 1-PINNED JOINTS, EXPOSED UNIVERSALS, DOOR HINGES AND LATCHES, SPLINES, ETC. LUBRICATE WITH LOW TEMPERATURE OIL SPECIFICATION NO. AN-O-6.
- 2 ZERK FITTINGS-APPLY LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION NO. AN-G-3, SPARINGLY. DO NOT LUBRICATE GEAR BOXES BY ZERK FITTINGS, FOLLOW INSTRUCTION FIVE.
- 3-RETRACTING SCREWS-INSPECT MECHANISM FOR DIRT AND OTHER FOREIGN MATTER IN LUBRICANT, AND FOR SUFFICIENT LUBRICATION. WHERE NECESSARY, CLEAN THOROUGHLY AND APPLY A LIGHT COAT OF LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION AN-G-10.
- 4-ENCASED UNIVERSALS- CLEAN THOROUGHLY AND RE-LUBRICATE WITH LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION AN-G-3, TO 1/3 CAPACITY.
- 5-GEAR BOXES-INSPECT REPRESENTATIVE GEAR BOXES FOR LOSS OF AND GENERAL DETERIORATIONS OF THE LUBRICANT AND FOR EVI-

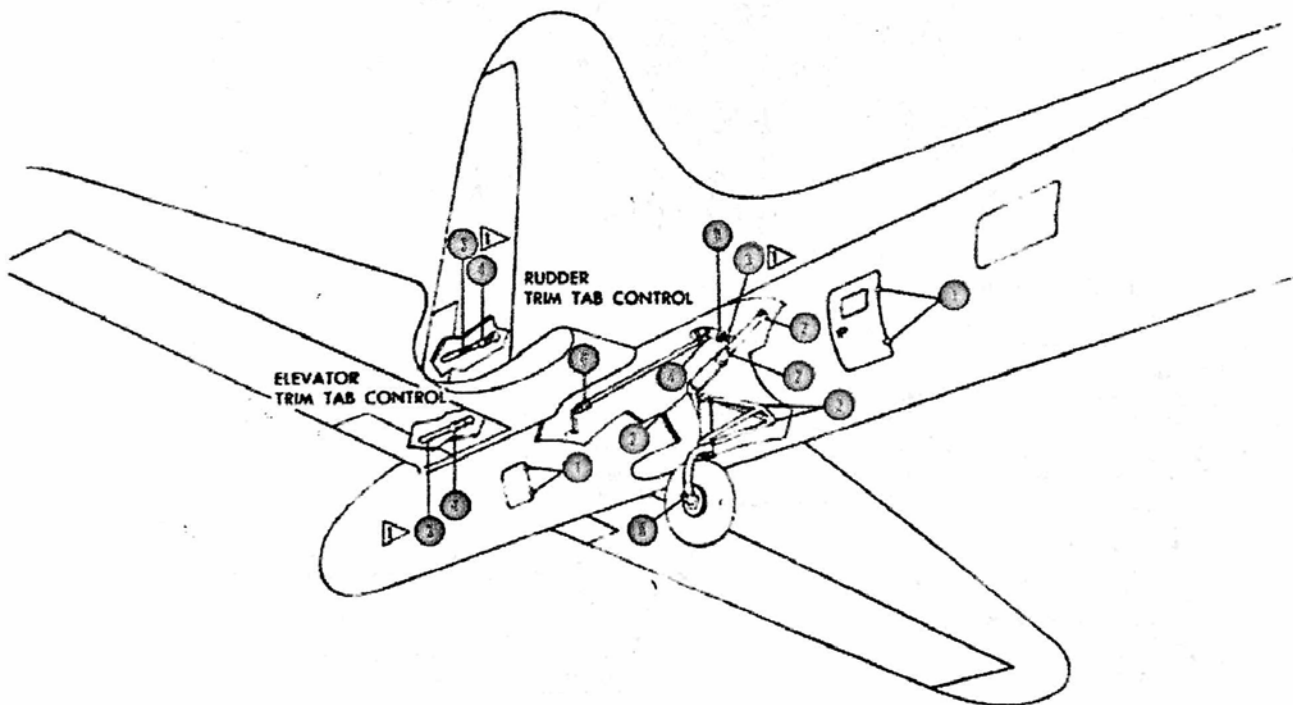
DENCE OF MOISTURE. WHEN NECESSARY, CLEAN AND RE-LUBRICATE TO 1/3 CAPACITY WITH LOW TEMPERATURE LUBRICATING GREASE, SPECIFICATION AN-G-3.

- 6-BEARINGS- CLEAN THOROUGHLY AND RELUBRICATE TO 1/3 CAPACITY AS FOLLOWS. LUBRICATE ROLLER BEARINGS IN WHEELS WITH GREASE, SPECIFICATION NO. 3560, MEDIUM GRADE. LUBRICATE ALL OTHER BALL AND ROLLER BEARINGS WITH GREASE SPECIFICATION AN-G-3.

- 7-FLEXIBLE SHAFTING-DISASSEMBLE, CLEAN THOROUGHLY AND IF EXPOSED TO LOW TEMPERATURES APPLY A LIGHT COAT OF GREASE, SPECIFICATION AN-G-3.

- 8- CLEAN THOROUGHLY AND COAT PARTS LIGHTLY WITH GREASE AN-G-3.

▶ IT IS IMPORTANT THAT THE EXCESS GREASE BE REMOVED FROM THE ACTUATING SCREWS TO PREVENT FREEZING AND STICKING AT EXTREME LOW TEMPERATURES.



CAF-GCW AAIP

Lubrication Chart Symbol	Part description	Location
MECH / INSP 1. <u>RB/JW</u> TS #2	Grease zerker fittings	MLG & Tail Gear Assy
2. <u>TS</u> TS #3	Lube jack screws	MLG & Tail Gear

In addition to items listed above on Inspection #4 Lubricate:

3. <u>TS</u> TS #3	Retraction screws	MLG & tail wheel
4. <u>TS</u> TS #6	Tail wheel bearings	Tail wheel
5. <u>TS</u> TS #1	Exposed universals	Aileron trim tab
6. <u>TS</u> TS #1	Foot pedal stirrups	Cockpit
7. <u>RB</u> TS #1	Rudder pedal & brake rods	Cockpit
8. <u>TS</u> TS #1	Rudder pedal adjustment guide	Cockpit
9. <u>TS</u> TS #1	Rudder & elevator lock pins	Cockpit
	*caution-do not lube engaging areas of lock pin	
10. <u>TS</u> TS #1	Door hinges & locks	Below cockpit (left) & aft fuselage (right)
11. <u>TS</u> TS #1	Aileron, rudder & elevator tab indicators	Cockpit
12. <u>TS</u> TS #1	All other exposed universal pinned joints & latches	(not shown)

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LUBRICATION SCHEDULE (CONT.) (INSPECTIONS: 1, 2, 3 & 4)

- | | | |
|----------------------------------|-------------------------------|---------------------------------|
| 13. <u>RB/JW</u> <u>1/1/1</u> #3 | Extension & retraction screws | Wing flaps |
| 14. <u>RB/JW</u> <u>1/1/1</u> #5 | Gear boxes | (see diagram) |
| 15. <u>RB/JW</u> <u>1/1/1</u> #6 | Bearings | (see diagram) |
| 16. <u>TS</u> <u>1/1/1</u> #8 | Cables (not shown) | Pulley grooves
& fairlead |
| 17. <u>TS</u> <u>1/1/1</u> #3 | Actuating screws | Aileron &
elevator trim tabs |
| 18. <u>TS</u> <u>1/1/1</u> #4 | Encased universals | (see diagram) |

NO. 2 COWL FLAP HINGERS JW —
NO. 1, 3, 4 COWL FLAP HINGERS — —

CAF-GCW

AAIP

SPECIAL INSPECTION #1 (EVERY 12 CALENDAR MONTHS)

Date 3/31/22Aircraft Total Time 9116.7

LANDING GEAR

MECH / INSP

1. TS / RW Attach fittings and structure for cracks, corrosion and damage
2. TS / RW Attach points and retraction components for wear, looseness and lubrication
3. PLB / RW MLG screw jacks for condition and lubrication. Attach fitting bolts for condition and wear (special bolts)
4. PLB / RW MLG electrical components, limit switches, wiring, motor, relays for condition. Electrical connections for security, brushes and commutators.
5. TS / RW Wheels and tires for condition and inflation. Bearings and braces for condition. Brake drums for condition and wear.
6. TS / RW Brake pad blocks for thickness, spring clips and leaks
7. TS / RW Spindles, check condition and security
8. TS / RW Tail wheel condition, tail wheel lock assembly (cable and pulleys), tail wheel lock switch, centering switch, boot, shear bolt, structure & attach fitting & trunnion assembly
9. TS / RW Tail wheel retract mechanism for security, condition and lubrication (lube emergency crank shaft)
10. TS / RW Landing gear retraction & extension check, gear warning, gear indications, centering switch operation and tail wheel; lock operation & indication
11. PLB / RW MLG & Tail Wheel, Emergency / manual retraction & extension (Hand Cranking)
12. TS / RW Struts for fluid level and proper inflation
13. TS / RW Lubrication as required

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service

Signature

Date

3/31/22

Certificate #

Location

APKCxo

CAF-GCW
AAIP

SPECIAL INSPECTION #2

(EVERY 12 CALENDAR MONTHS)

Date 3/31/22

Aircraft Total Time 9516.7

DOCUMENTS AND COMPLIANCE

- MECH / INSP
1. YMB / RSW Airworthiness Directives (AD's), current and next due (hours and/or calendar)
 2. YMB / RSW Aircraft flight manual, check revision currency and condition
 3. YMB / RSW Aircraft checklist, check revision currency and condition
 4. YMB / RSW FAA Aircraft registration, check for presence and expiration date
 5. YMB / RSW FAA Airworthiness Certificate, check for presence
 6. YMB / RSW Aircraft Insurance certificate, check for presence and expiration date
 7. YMB / RSW Status of Aircraft Inspection Program, check for presence and accuracy
 8. YMB / RSW Aircraft flight log, check for presence, currency and appropriate maintenance entries
 9. YMB / RSW Type Specification, check for conformity
 10. YMB / RSW Weight & Balance, check for presence & accuracy

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature [Redacted]

Date 3/31/22

Certificate # [Redacted]

Location KCKO

CAF-GCW

AAIP

SPECIAL INSPECTION #3

(EVERY 12 CALENDAR MONTHS)

Date 3/31/22

Aircraft Total Time 9116.7

AVIONICS AND ELECTRICAL SYSTEMS

AVIONICS SYSTEM

MECH / INSP

1. D / PMW Radio racks for condition and security
2. TS / PMW Radio wiring and circuitry for condition and security
3. TS / PMW Antennas & coaxial cables for condition and security

ELECTRICAL SYSTEM

MECH / INSP

1. TS / AMP Functional check;
 - a. Cockpit instruments and lights
 - b. DC powered instruments
 - c. Emergency electrical disconnect switch
 - d. Flap switch and position indicator
 - e. Fuel and oil indication systems
 - f. Ground power relay
 - g. Ignition vibrators
 - h. Inverters and AC system
 - i. Landing lights
 - j. Position lights and strobes
2. TS / PMW Batteries, connections, security and condition
3. TS / XX Spare light bulbs, replenish as required
4. TS / AMP Check output of Generators 1,2,3 & 4 (200 amps-max)

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature [Redacted]

Certificate # [Redacted]

Date 3/31/22

Location KC XO

CAF-GCW
AAIP

INSPECTION #4

(EVERY 24 CALENDAR MONTHS)

Date 2/31/22

Aircraft Total Time 9116.7

PITOT STATIC SYSTEM, ALTIMETER AND TRANSPONDER

MECH / INSP

1. AV / PAW Static pressure system test (14 CFR Part 91.411)
a. Date tested 3/31/22
2. AV / PAW Aircraft altimeter test;
a. Date tested 3/31/22
b. Maximum altitude 20,000
3. AV / PAW Transponder test
a. Date tested 3/31/22
b. Next test due date 3/24

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.

Signature

Date

Certificate #

Location

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AAIP

INSPECTION #5

(EVERY 5 CALENDAR YEARS)

Date 3/31/22

Aircraft Total Time 9116.7

COMPRESSED GAS CYLINDERS (2)

MECH / INSP

1. PSU / PSU Compressed Gas Cylinders will be inspected and maintained in accordance with 49 CFR, Subtitle B, Chapter I, Part 180.209*

*Part 180.209 "Requirements for re-qualifications of specification cylinders"

Next Due Date 01/24

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409 (f) (4) and is approved for return to service.

[Redacted Signature]
Signature

3/30/22
Date

[Redacted Signature] AIP
Certificate #

KCVO
Location

CAF-GCW
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INSPECTION #6

(Maintained I/A/W FAR 91.207D)

Date 3/31/22

Aircraft Total Time 9116.7

EMERGENCY LOCATOR BATTERY

MECH / INSP

1. SAW/SAW Replace ELT at or before due date
a. Removed battery p/n R42KE
b. Installed battery p/n RTA1
*Replace battery by (date) APR 24

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.


Signature

 A+P
Certificate #

3/31/22
Date

KCRO
Location

CAF-GCW AAIP



Texas Raider
B17 N7227G

Maintenance Discrepancy
And Work Document



Discrepancy: Date: <u>12/14/2021</u> Initials: <u>L. B.</u> ELECTRICAL INSPECTIONS: PRE-OIL _____ FEATHER _____ STARTER _____ GENERATOR _____ ENG #2	Corrective Action: Date: <u>12/14/2021</u> Initials: <u>L. B.</u> CLEANED BRUSHES/COM OK " " " OK " " " OK BRUSHES WORN, REPLACED BRUSHES, CLEANED COM. Item: P/N: S/N:
Removed: _____ Initials: _____ Date: _____ Part #: <u>NA</u> Serial #: _____	IAW: <u>AN01-20EG-2 Sec 4 par 7 p 272ff</u> Aircraft Approved for Return to Service <u>OK</u> A&P: _____ AFTT: _____ ETT: _____ Date: <u>1/14/21</u>

Discrepancy: Date: <u>12/14/2021</u> Initial: <u>LB</u> ELECTRICAL INSP, PRE-OIL _____ FEATHER <u>oily</u> _____ STARTER _____ GENERATOR _____ ENG #3	Corrective Action: Date: <u>12/14/2021</u> Initials: <u>L. B.</u> CLEANED BRUSHES/COM OK CLEANED BRUSHES/COM OK " " " OK " " " OK Item: P/N: S/N:
Removed: _____ Initials: _____ Date: _____ Part #: <u>NA</u> Serial #: _____	IAW: <u>AN01 20EG-2 sec 4 par 7 p 272ff</u> Aircraft Approved for Return to Service _____ A&P: _____ AFTT: _____ ETT: _____ Date: _____

IAW = IN ACCORDANCE WITH
 AFTT = AIRCRAFT TOTAL TIME
 ETT = ENGINE TOTAL TIME

ff = FORM FOLLOWING

CAF-GCW AAIP



Texas Raider
B17 N7227G

Maintenance Discrepancy
And Work Document



Discrepancy: Date: <u>12/16/2021</u> Initials: <u>LB</u> ELECT. INSPECTIONS PRE-OIL _____ FEATHER _____ STARTER _____ GENERATOR _____ ENG # 1		Corrective Action: Date: <u>12/16/2021</u> Initials: <u>LB</u> CLEANED BRUSHES & COM. OK " " " OK " " " OK " " " OK Item: _____ P/N: _____ S/N: _____	
Removed: _____ Initials: _____ Date: _____ Part #: <u>N/A</u> Serial #: _____		IAW: <u>AN01 REG-2 Sec 4 Par 7 p.272 ff</u> Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____	

Discrepancy: Date: <u>12/21/2010</u> Initial: <u>LB</u> ELECT INSPECTIONS 12/21/21 PRE-OIL <u>BRUSH BROKEN WIRE</u> 1/18/22 FEATHER _____ 1/6/22 STARTER _____ 1/6/22 GENERATOR _____ ENG # 4		Corrective Action: Date: <u>12/21/2014</u> Initials: <u>LB</u> ONE BRUSH CHANGED, CLEANED BRUSH, & COM. OK CLEANED BRUSHES & COM. OK CLEANED BRUSHES & COM. OK " " " OK Item: _____ P/N: _____ S/N: _____	
Removed: _____ Initials: _____ Date: _____ Part #: <u>N/A</u> Serial #: _____		IAW: <u>AN01 REG-2 Sec 4 Para. 7 p.272 ff</u> Aircraft Approved for Return to Service _____ A&P _____ AFTT: _____ ETT: _____ Date: _____	

CAF-GCW
AAIP

INSPECTION #4

PAGE 1

Date 9/28/21

Aircraft Total Time 9099.7

A. ENGINES #2 AND #4

MECH / INSP

1. CW / PW Remove all engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowling as necessary.
2. JW #2 / PW Inspect and clean main oil strainer
3. TS / PW Perform differential compression test:
 - a. Engine #2
*Record on cylinder compression check form
 - b. Engine #4
*Record on cylinder compression check form
4. DV / ONPW Clean, gap and test all spark plugs. Replaced (y/n) 2
 - a. Record spark plug type URAB 37E
 - b. Number replaced and cylinder#'s E2 C1 BR / E4 C4 BR
5. TS / PW Check engine timing #2 #4
6. TS / PW Inspect magneto points, "P" leads and induction vibrator #2 #4
- * 7. TS / PW Check valve clearances as required Winter
8. TS / PW Inspect engine mounts for condition and security
9. TS / PW Inspect cylinders, hold down studs, baffles, intake pipes, push rod covers and hoses for condition and security
10. TS / PW Inspect exhaust system for cracks, holes and broken sections
11. TS / PW Check cowl flaps and actuating mechanism for operation
12. TS / PW Inspect nose and power case and blower section for condition and security
13. TS / PW Inspect propeller governor, controls and feathering lines for condition and security
14. TS / PW Inspect propeller for condition of blades, hub, dome and oil leaks
15. TS / PW Inspect accessory case, oil lines, vents and dishpan for condition and security
16. PLB / PW Check generators, starter, commutator, feathering pump motor brushes for electrical attachments and operation
17. TS / PW Check fuel pump, carburetor, lines, fittings, intake elbow connections, internal baffles, primer operation, mixture idle cut off check, throttle and mixture control stop check for operation and condition

LB
#4 GEN
#4 START

✓ LB
#4 FEATHER PMP
HYDRAULIC ARM

PROON ✓
LB
#4

TAC. GEN
#4
LB

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INSPECTION #4 (CONT.)

PAGE 2

MECH / INSP

18. TW / RW Remove, inspect and replace main oil filter (Airwolf)
19. TS / RW Check power and accessory section for fuel and oil leaks
(pressure check)
20. TS / RW Inspect all accessories for condition and security
21. TS / RW Inspect all lines and blast tubes for condition and security
22. TS / RW Inspect nose case thrust plate nuts and torque to 300/350
inch/ lbs
23. MB / XX Collect oil samples-all engines

B. NACELLE #1, #2, #3 AND #4

MECH / INSP

1. TS / RW Inspect skin stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. TS / RW Inspect plumbing and wiring for condition and security
3. TS / RW Inspect attachments, engine mount and oil tank for condition
and security
4. TS / RW Inspect exhaust heat shields for condition and security
5. TS / RW Inspect induction system ducting, joints and filters for
condition and security

C. BATTERIES

MECH / INSP

1. TS / RW Inspect batteries and wiring for condition and security

D. FUSELAGE

MECH / INSP

1. TS / RW Inspect skin, stringers, bulkheads and formers for cracks,
corrosion, wrinkles, damage and working rivets
2. TS / RW Inspect wing center section attach fittings for condition and
security
3. TS / RW Inspect stabilizers attach fittings for condition and security
4. TS / RW Inspect plumbing and wiring for condition and security
5. TS / RW Inspect control cable pulleys, fairleads and cables for
condition security
6. TS / RW Check flaps and motor for operation, condition and security

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INSPECTION #4 (CONT.)

PAGE 3

- MECH / INSP
7. Bef / RW Check forward and aft crew doors for operation, condition and security
 8. Bef / XX Check windows and nose glass for operation, condition and security
 9. Bef / RW Check passenger seats and seat belts for operation, condition and security
 10. Bef / RW Check cockpit seats and seat belts for operation, condition and security
 11. Bef / RW Check flight controls for operation, clearances and limits (control column and rudder pedals)
 12. Bef / RW Check brakes and parking brake operation
 13. Bef / RW Check engine controls, friction lock and engine switches for operation and condition
 14. Bef / RW Check instruments for operation, condition and placards
 15. Bef / RW Check instrument panel for condition and security
 16. Bef / RW Check hydraulic power pack operation, fluid level and filter for condition and security - *Need to add hyd. fluid.*
 17. Bef / RW Check instrument air filter for condition and security
 18. Bef / RW Check vacuum pump filters for condition and security
 19. Bef / RW Check bomb bay, doors, racks and operating mechanism for operation, condition and security
 20. Bef / RW Inspect top, chin and ball turrets for structure attachments, condition and security
 21. Bef / RW Check fuel transfer valves for operation, condition
 22. Bef / XX Check electric fuse panel and wing relay panels for condition and security (spare fuses)
 23. Bef / RW Check battery and inverter control panel for condition and security
 24. Bef / RW Inspect engine and cabin fire bottles for condition, security and expiration date
 25. Bef / 1 Check radios for operation, condition and security
 26. Bef / XX Check first aid kit for contents and security
 27. Bef / RW Inspect required placards for accuracy and legibility
 28. Bef / XX Check other gear installed for condition and security

CAF-GCW
AAIP

INSPECTION #4 (CONT.)

PAGE 4

E. VERTICAL STABILIZER

MECH / INSP

1. RW / SMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. RW / SMB Inspect all attachments for condition and security
3. RW / SMB Inspect wiring for condition and security

F. HORIZONTAL STABILIZER (left & right)

MECH / INSP

1. RW / SMB Inspect skin, strings, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. RW / SMB Inspect all attachments for condition and security
3. RW / SMB Inspect wiring for condition and security

G. ELEVATORS (left & right)

MECH / INSP

1. RW / SMB Inspect elevators and fabric for condition and security
2. RW / SMB Inspect attachments for condition and security

H. ELECTRICAL SYSTEM

MECH / INSP

1. TS / XX Check landing, navigation and rotating beacon bulbs for operation
2. SMB / XX Check instrument and interior lights for operation
3. TS / XX Check conditions of generators (4)
4. TS / RW Check main and spare inverter output (115 volts)
5. TS / RW Check electric HYD pump pressures (800 psi +/- 25)

I. EMERGENCY EQUIPMENT

MECH / INSP

1. TS / RW Check Crash Axe (3 locations), check condition and security

CAF-GCW
AAIP

INSPECTION #4 (CONT.)

PAGE 5

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly <i>EW</i>
3	Lube Screws	Main and Tail Landing Gear <i>EW</i>
9	All four engines	Check oil levels <i>oil checked 1,2,4 & filters</i>

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.


Signature


Certificate #

10-5-2021
Date

KC XO
Location

CAF-GCW
AAIP

CYLINDER COMPRESSION CHECK RECORD

Date 9-21-21

Engine Total Time 501.9

Engine # 2

Cylinder No. Reading (in PSI) Comments

1 72 / 80

2 78 / 80

3 75 / 80

4 76 / 80

5 78 / 80

6 78 / 80

7 73 / 80

8 76 / 80

9 75 / 80

Reason for compression check:

4/ Insp

Performed by:

T. Sparks C. Rowe

CAF-GCW
AAIP

CYLINDER COMPRESSION CHECK RECORD

Date 9-21-21

Engine Total Time _____

Engine # 4

Cylinder No. Reading (in PSI) Comments

1 72 / 80

2 58 / 80

3 76 / 80

4 68 / 80

5 77 / 80

6 62 / 80

7 74 / 80

8 62 / 80

9 70 / 80

Reason for compression check:

4 Insp.

Performed by:

Tim Search C Rowe

Texas Raiders
B-17G N7227C



MAINTENANCE DISCREPANCY and WORK DOCUMENT



REV. 2/24/2019

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
	Tim		9-30-21	TM	
DISCREPANCY #3 Ex Studs working #4 #1 Cyl out			CORRECTIVE ACTION Replaced 3 Ex Studs #4 - #1 Cyl		

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
9/29/2021	T. Seals		9/29/2021	L. Brown	
DISCREPANCY #4 TACK GEN CANNON PLUG Loose			CORRECTIVE ACTION #4 TACK GEN ROTATED DOWN 90° to help w/ wire flexibility to cannon PLUG & TIGHTENED		

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
10/2/2021	T. SEARLS		10/2/2021	L. Brown	
DISCREPANCY CHECK ON ENG #4 CUNO FILTER			CORRECTIVE ACTION PULLED ENG #4 CUNO FILTER, CHECKED FOR DEBRIS - OK CLEANED & RE-INSTALLED RE-SAFETY WIRED.		

NOTES:

1. Reference = Technical / Maintenance Manual Page number and Paragraph
2. If disassembly is involved, list temporary storage location of removed parts

Texas Raiders
B-17G N7227C



MAINTENANCE DISCREPANCY and WORK DOCUMENT



REV. 2/24/2019

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
	Tim Seach			Tim Seach	
DISCREPANCY #4 Insp Mags #2 #4			CORRECTIVE ACTION Inspect Points + Seal Gap Check Timing #2 + #4/ Help Install Plugs F #4/		

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
DISCREPANCY			CORRECTIVE ACTION		

Date Discovered	Discovered By	Reference	Date Corrected	Corrected By	Inspected By
DISCREPANCY			CORRECTIVE ACTION		

NOTES:

1. Reference = Technical / Maintenance Manual Page number and Paragraph
2. If disassembly is involved, list temporary storage location of removed parts

CAF-GCW
AAIP

INSPECTION #3

PAGE 1

Date 20 AUG 2021 Aircraft Total Time 9074.0

A. ENGINES #1, #2, #3 & #4

MECH / INSP

1. TS LMB Remove engine and accessory section cowlings and nacelle inspection plates and covers. Inspect and repair cowlings as necessary
2. TS LMB Inspect cylinders, hold down studs, baffles, intake tubes, push rod covers and hoses for condition and security
3. TS LMB Inspect exhaust system for cracks, holes & broken sections
4. TS LMB Check cowl flaps & actuating mechanism for operation
5. TS LMB Inspect nose and power case, condition and security
6. TS LMB Inspect propeller governor, controls and feathering lines for condition and security
7. TS LMB Inspect propeller for condition of blades, hub, dome and oil leaks
8. TS LMB Inspect accessory case, lines, attachments, vents, dishpan for condition and security
9. TS LMB Operational and leak check of fuel and oil systems
10. TS LMB Inspect nose case thrust plate nuts for condition and security
11. TS LMB Pressure check of power & accessory section, check for fuel and oil leaks
12. TS LMB Inspect all accessories for condition and security
13. TS LMB Inspect all lines and blast tubes for condition and security
14. PB XX Collect oil samples-all engines
15. TS LMB Remove, inspect & replace main oil filter (Airwolf)

B. NACELLES #1, #2, #3 & #4

MECH / INSP

1. TS LMB Inspect skin stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets
2. TS LMB Inspect plumbing and wiring for condition and security
3. TS LMB Inspect engine mount, attachments and oil tank for condition, security and oil leaks
4. TS LMB Inspect exhaust heat shields for condition and security

CAF-GCW
AAIP

INSPECTION #3 (CONT.)

PAGE 2

C. BATTERIES

MECH / INSP

1. JAG / RDW Inspect Condition, wiring and venting

D. FUSELAGE, LEFT & RIGHT WINGS (Ailerons & Flaps)

MECH / INSP

1. RDW / JMIB Inspect Skin, stringers, bulkheads and formers for cracks, corrosion, wrinkles, damage and working rivets.
2. RDW / JMIB Inspect attachments at wing to fuselage, aileron attachment and outer wing panel bolts for condition and security
3. RDW / JMIB Inspect fuel cells for condition and security
4. RDW / JMIB Inspect fuel lines for condition and security
5. RDW / JMIB Inspect fuel caps for security, proper fuel quantity and minimum octane rating placards
6. RDW / JMIB Inspect ailerons and fabric for condition and security
7. RDW / JMIB Inspect flaps for condition and security

E. HORIZONTAL & VERTICAL STABILIZERS, ELEVATORS & RUDDER

MECH / INSP

1. RDW / JMIB Inspect skin, stringers and formers for cracks, corrosion, wrinkles, damage and working rivets
2. RDW / JMIB Inspect elevators and fabric (L&R) for condition and security
3. TS / JMIB Inspect rudder and fabric for condition and security

F. ELECTRICAL SYSTEM

MECH / INSP

1. JMP / XX Check landing, navigation and rotating beacon bulbs for operation
2. JMP / XX Check instrument and interior lights for operation
3. LB / RDW Check condition of generators (4)
4. _____ / _____ Check electric HYD pump pressure (800psi +/- 25)

12/16/21
ENG #1 GEN
- elect. cleaned
OK L.B.

12/14/21
ENG #2 GEN
- Replaced Worn
BRUSAGS
- elect. cleaned
OK L.B.

12/14/21
ENG #3 GEN
- elect. cleaned
OK L.B.

ENG #4 GEN
- elect. cleaned
OK L.B. 1/6/22

CAF-GCW
AAIP

INSPECTION #3 (CONT.)

PAGE 3

LUBRICATION SCHEDULE (SEE LUBRICATION CHART)

SYMBOL	PART DESCRIPTION	LOCATION
<i>75</i> 2	Grease Zerk Fittings	Main and Tail Landing Gear Assembly
<i>75</i> 3	Lube Screws	Main and Tail Landing Gear
<i>75</i> 9	All four engines	Check oil levels

This Aircraft has been inspected in accordance with an approved inspection program as required by FAR 91.409(f)(4) and is approved for return to service.


Signature

8-20-2021
Date

AIP  *IA*
Certificate #

9074.0
Aircraft Total Time

MONTH/YEAR 11/2020	MODEL BOEING B-17G	SERIAL NO. 44-77235	REGISTRATION NO. N7227C	UNIT CAF GULF COAST KING	PAGE NO. 1
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APPLIED TECHNOLOGIES INSPECTION SERVICES (A.T.I.S.)

20802 STUEBNER AIRLINE RD

HANGAR X2

SPRING TX 77379

E-mail: 

INSPECTION REPORT & LOGBOOK ATTACHMENT

CUST: HOUSTON C.A.F.
CONROE REGIONAL AIRPORT
CONROE TX

DATE: 1/2/2021

WO: 7735

PO: N7227C-1-21

MODEL: B-17G

REG: N7227C

SN: 77235

TTA: 9000.5

LDGS: UNK

ATTN: Chief Inspector

LOCATION: ~~TOMBALL HOOKS~~ → *Conroe - Cxo*

Item Description:

AIRPLANE: BOEING B-17

Description of Work

PERFORM NDT INSPECTIONS ONLY, AS FOLLOWS:

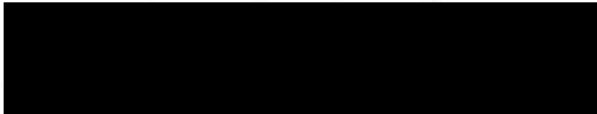
- 1) EDDY-CURRENT OF FRONT MAIN SPAR LOWER CAP (LEFT AND RIGHT SIDE)
PER AD 73-20-02
- 2) EDDY-CURRENT LOWER AFT SPAR (LEFT AND RIGHT SIDE)
PER AD 77-17-11

Results:

NO DISCONTINUITIES FOUND AT THE TIME OF THIS INSPECTION

I certify that this AIRPLANE has been inspected IAW the items listed above and has been found to be in an AIRWORTHY condition with respect to those items only.

FAA CRS# NQ9R840Y


Wallace W. Warren
Chief Inspector

2020/2021

WINTER MAINTENANCE

MONTH/YEAR JAN	MODEL B-17G	SERIAL NO. 77235	REGISTRATION NO. N 7227C	UNIT CAF/ GULF COAST	PAGE NO. 1
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		PERFORM CONTINUOUS INSPECTIONS #2, 3 & 4 FOR WINTER MAINTENANCE	COMPLETED CONTINUOUS INSPECTIONS 2, 3 & 4 IN ACCORDANCE WITH AN APPROVED INSPECTION PROGRAM AS REQUIRED BY FAR 91.409 (F)(A). AIRCRAFT IS APPROVED FOR RETURN TO SERVICE HOBBS: 565.5 TTA: 9,000.5	[REDACTED] [REDACTED] A+P 30 JAN 2021
2		PERFORM SPECIAL INSPECTIONS #1-6 FOR WINTER MAINTENANCE	COMPLETED CONTINUOUS/SPECIAL INSPECTIONS 1, 2, 3, 4, 5 & 6 IN ACCORDANCE WITH AN APPROVED INSPECTION PROGRAM AS REQUIRED BY FAR 91.409 (F)(A). AIRCRAFT IS APPROVED FOR RETURN TO SERVICE. HOBBS: 565.5 TTA: 9000.5	[REDACTED] [REDACTED] A+P 30 JAN 2021
3		AD 73-20-02 & AD 77-17-11 DUE	COMPLIED WITH AD 73-20-02 BY EDDY CURRENT INSPECTION OF FRONT MAIN SPAR LOWER CAP. COMPLIED WITH AD 77-17-11 BY EDDY CURRENT INSPECTION OF LOWER AFT SPAR. SEE ATTACHED INSPECTION REPORT OTHER SIDE HOBBS: 565.5 TTA: 9000.5	[REDACTED] [REDACTED] A+P 30 JAN 2021

2020/2021 WINTER MX

MONTH/YEAR JAN/2021	MODEL B-17G	SERIAL NO. 77235	REGISTRATION NO. N7227C	UNIT CAF/GULF COAST	PAGE NO. 2
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
4		Hydraulic Accumulator Pressure Low	REMOVED AND DISASSEMBLED ACCUMULATOR CLEANED. REPLACED O'RINGS. REASSEMBLED AND SERVICED WITH NITROGEN IN ACCORDANCE WITH T.O. 01-20EG-2 pgs 33, 34, 261 and 262. APPROVED FOR RETURN TO SERVICE HOBBS: 565.5 TTAF 9000.5	[REDACTED] AIP 30 JAN 2021
5		Annual Corrosion treatment	Applied Corrosion X to all interior surfaces and internal surfaces including the spar area covered by AD 2001-22-06	[REDACTED] AIP 30 JAN 2021
6		#3 Gen will not come online	Replaced Reverse Current Relay sl#: G39720 with sl#: 5876. Ops check OK. Replaced generator cables per T.O. AN 01-20EG-2 HOBBS: 565.5 TTAF: 9000.5 for all entries this page	[REDACTED] AIP 30 JAN 2021
		ENA		[REDACTED]
1		AAIP INSPECTION #1 DUE JAN 13	THIS AIRCRAFT has been INSPECTED IN ACCORDANCE WITH AAIP APPROVED INSPECTION PROGRAM AS REQUIRED GEN MAINTENANCE BY TFR 91.409 (FCA) AND IS APPROVED FOR RETURN TO SERVICE.	TERRELL M. BARKER [REDACTED] OFFICER

2021 FLYING SEASON

MONTH/YEAR 15 MARCH	MODEL B-17G	SERIAL NO. 77235	REGISTRATION NO. N7227C	UNIT CAF/GULF COAST	PAGE NO. 1
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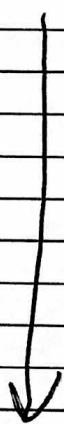
NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		MAIN INVERTER PRODUCING EXCESSIVE VOLTAGE (130 VAC ±)	REMOVED MAIN INVERTER S/N 1428682 INSTALLED OVERHAULED INVERTER P/N MG1494 S/N 1414084 IN ACCORDANCE WITH T.O. AN 01-20EG-2 SECTION IV PAR. 7, 3., b.c. p279 Rev 25 AUG. 44 AIRCRAFT APPROVED FOR RETURN TO SERVICE HOBBS: 569.0 TTA: 9004.0	 AIP 13 MARCH 2021
2		HYD PUMP LEAKING	REMOVED HYD PUMP P/N: 1E-678 S/N: PE9212, INSTALLED HYD PUMP P/N: 1E-678 S/N: PE3552 1AW T.O. AN 01-20EG-2 SECTION para 6(b) 1.2.3. p261 and FIG 284 pg. 261 and FIG 286 p. 262. AIRCRAFT APPROVED FOR RETURN TO SERVICE HOBBS: 570.5 TTA: 9005.5	 AIP 1 APR, 2021
3		BOTH TIRES WORN	INSTALLED NEW DUNLOP THOMPSON AERONAUTICAL RECAPED TIRES (03-15) LEFT S/N: 13165406 HOBBS: 576.8 RIGHT S/N: 2040352 TTA: 9011.8 AIRCRAFT APPROVED FOR RETURN TO SERVICE	 AIP 8 APRIL 2021

2021 FLYING SEASON

MONTH/YEAR MAY 21	MODEL B17-G	SERIAL NO. 77235	REGISTRATION NO. N7227C	UNIT GULF COAST	PAGE NO. 2	
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		AAIP INSPECTION #1 DUE	THIS AIRCRAFT HAS BEEN INSPECTED I/A/W AND APPROVED AIRCRAFT INSPECTION PROGRAM AS REQUIRED BY FAR 91.409 (F)(4) AND IS APPROVED FOR RETURN TO SERVICE ACTT 9026.6	 TERRY M. BARKER MAINT. OFFICER A&P  5-10-2021
1		AAIP INSPECTION #2 DUE	THIS AIRCRAFT HAS BEEN INSPECTED I/A/W AN APPROVED AIRCRAFT INSPECTION PROGRAM AS REQUIRED BY FAR 91.409 (F)(4) AND IS APPROVED FOR RETURN TO SERVICE ACTT 9048.8	 TERRY M. BARKER MAINT. OFFICER A&P  6-18-2021

MONTH/YEAR 3/2021	MODEL Boeing B-17G	SERIAL NO. 44-77235	REGISTRATION NO. N7227C	UNIT Gulf Coast Wing -CAF	PAGE NO. 1 of 3
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NO	X	DATE / FAULTS AND / OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.	
		wo: A20-0272 Airframe - page 1 of 3  FORCE AVIATION Force Aviation - 5555 Apollo Drive - Dallas, Texas 75237 - 2143377000 N7227C hobbs: 567.1 BOEING, B-17G, S/N: 77235 March 3, 2021 1. Remove GNS 530W and Install Avidyne IFD-540 Navigator Removed GNS 530W Part Number 011-01064-40 s/n 78412504. installed IFD 540 Part Number 700-00182-000 Serial Number M204284993 with reference to IFD 540 install manual 600-00299-000 Revision: 14 dated 3/7/18. Reassembled all affected areas check good.-J.Moreno 2/25/2021 2. Remove GDL 88 and Install Avidyne Skytrax - Removed GDL 88 Part Number 011-02369-00 Serial Number 22T000620. Installed Avidyne Skytrax Part Number 700-00190-100 Serial Number M203582953 with reference to SkyTrax Series UAT ADS-B Receiver Installation Manual p/n 600-00335-000, Rev: 01 dated 09/17/19. reassembled all affected areas and ops check good. -J. Moreno 3. Remove GTX 330 and Install Avidyne AXP-322 Remote Transponder - Removed GTX 330 Part Number 011-00455-60 s/n 84145018. Installed AXP322 transponder Part Number 00745-00-05 s/n 10230 with references to Avidyne AXP322 mode S remote transponder installation manual 600-00312-000 Revision: 05 dated 10/20/20. -Julio Moreno 4. Remove GNS430 and install Comm - Removed GNS 430W Part Number 011-01060-40 Serial Number 97122825, GI 106A Part Number 013-00049-11 Serial Number M04-11114, GI 106A P/N 013-00049-11 S/N M04-11114 and indicator ADF 101 P/N Serial Number 15397. Installed AR 6203 Communication Transceiver P/N AR6203-(012) S/N 00101 with reference to AR Manual DV14307.03			CONTINUED NEXT Page 



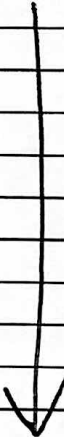
AIRCRAFT MAINTENANCE RECORD
CAF 101 M FORM

B-176

A4 -71235

N7227C JMB

MONTH/YEAR 3/2021	MODEL Engine#1/R-1820-97	SERIAL NO. 025664	REGISTRATION Studebaker	UNIT Gulf Coast Wing -CAF	PAGE NO. 2 of 3
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NO	X	DATE / FAULTS AND / OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
		wo: A20-0272	Airframe - page 2 of 3	
		 FORCE AVIATION Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000		
		Issue 06 February 2021 Article-No. 0638.404-071. Reassembled all affected areas ops check good. J.Moreno 3/1/2021 5. Remove GMA 340 and install Becker Audio System with 13 positions – Removed Garmin GMA 340 Audio Panel Part Number 011-00401-10 Serial Number 96293001 and Installed Becker Audio system to include Intercom Unit Part Number IC6100-3-(01) Serial Number 10040, Control Unit ACU6101-2-5301 Serial Number 01813. Configured and tested in accordance with Becker Installation manual DV 64470.03, Issue 6, Dated February 2015. Julio Moreno 2/8/21 6. Modify Overhead Radio Stack Structure – Modified upper, center radio rack (radio rack above pilot/co-pilot) in cockpit to move face of radio equipment forward. Fabricated mounting faceplate for ACU6101 and installed at top of same modified radio rack. Work completed IAW AC43.13-1B, Chapter 4. Calvin Griffith A&P 3356527 02 Mar. 2021. 7. Replace RG-58 Coax with RG-400 Coax – Terminated and routed new coax as requested by customer with reference to IFD 540 install manual 600-00299-000 Revision: 14 dated 3/7/18.. Reassembled all affected areas and ops check good.-J.Moreno 8. 91.411/91.413 pitot/static certification – Tested and inspected pitot/static systems as required by 91.411 including altimeter (P/N 101720-01545 S/N C106580) in accordance with FAR 43 appendix E. Tests satisfactory. Reference Avionics 1st CRS# 8A1R718B and CRS WO# A20-0272CRS. Tests satisfactory. -Brandon Baccus 3/2/21. Tested and inspected transponder and automatic altitude reporting systems as required by 91.413 including transponder (P/N 00745-00-05 S/N 10230) in		CONTINUED NEXT Page 



AIRCRAFT MAINTENANCE RECORD
CAF 101 M FORM

MONTH/YEAR 3/2021	MODEL Boeing B-17G	SERIAL NO. 4-77235	REGISTRATION NO. N7227C	UNIT CAF-GCW	PAGE NO. 3 of 3
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
		wo: A20-0272 Airframe - page 3 of 3  FORCE AVIATION Force Aviation - 5555 Apollo Drive - Dallas, Texas 75237 - 2143377000 accordance with FAR 43 appendix F. Tests satisfactory. Reference Avionics 1st CRS# 8A1R718B and CRS WO# A20-0272CRS. Tests satisfactory. -Brandon Baccus 3/2/21. With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: A20-0272. Paul Cantrell A&P [REDACTED]		
		* SEE FAA FORM 337 dated MARCH 3, 2021 FOR details of AVIONICS EQUIPMENT REMOVED AND INSTALLED. DOCUMENTS KEPT IN GULF COAST WING MAINTENANCE RECORDS Titled "FORCE AVIATION Boeing B-17G N7227C AVIONICS INSTALLATION" * SEE REVISED WEIGHT + BALANCE. Located with documents LISTED ABOVE * SEE REVISED EQUIPMENT LIST (Amendment) sheet, located with documents LISTED ABOVE		MARCH 5, 2021 TERRY M. BARKER [REDACTED] A&P [REDACTED] MAINTENANCE OFFICER

MONTH/YEAR 3/2021	MODEL BOEING B-17G	SERIAL NO. 44-77235	REGISTRATION NO. N7227C	UNIT CAF-GCW	PAGE NO. 1 OF 1
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
		N# <u>N7227C</u> Aircraft <u>Boeing B-17G</u> S/N <u>77235</u> Hobbs <u>567.1</u> I certify that this/these Transponder/s as installed in this Aircraft has/have been tested as required by FAR 91.413 in accordance with FAR 43 Appendix F on this date <u>03/02/2021</u>. #1 Transponder Model <u>TT22</u> P/N <u>00745-00-05</u> S/N <u>10230</u> Pertinent details of the test are <u>[REDACTED]</u> A20-0272CRS Dated <u>03/02/2021</u> Signed <u>[REDACTED]</u> Avionics 1st, Inc. Phone # <u>214-337-7000</u> Fax # <u>214-337-7001</u> CRS # <u>8A1R718B</u>		
		N# <u>N7227C</u> Aircraft <u>Boeing B-17G</u> S/N <u>77235</u> Hobbs <u>567.1</u> I certify that the Altimeter and Static systems test as required by FAR 91.411 have been performed in accordance with FAR 43 Appendix E. The Altimeter/s was/were tested to <u>20,000</u> feet on <u>03/02/2021</u>. #1 Altimeter P/N <u>101720-01545</u> S/N <u>C106580</u> Pertinent details of the test are on file at this Repair Station under Work Order # <u>A20-0272CRS</u> Dated <u>03/02/2021</u> Signed <u>[REDACTED]</u> Avionics 1st, Inc. Phone # <u>214-337-7000</u> Fax # <u>214-337-7001</u> CRS # <u>8A1R718B</u>		

CONTINUED
NEXT
PAGE

MONTH/YEAR 3/2021	MODEL BOEING B-17G	SERIAL NO. 44-77235	REGISTRATION NO. N722K	UNIT CAF-GCW	PAGE NO. 2 OF 2	
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[illegible]

MONTH/YEAR AUG 2021	MODEL B17-G	SERIAL NO. 77235	REGISTRATION NO. N7227C	UNIT GULF COAST	PAGE NO. 3
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		AAIP INSPECTION #3 DUE <i>[Signature]</i>	THIS AIRCRAFT HAS BEEN INSPECTED I/A/W AN APPROVED AIRCRAFT INSPECTION PROGRAM AS REQ'D BY FAR 91.409(S)(4) AND IS APPROVED FOR RETURN TO SERVICE ACTT: 9074.0	<i>[Signature]</i> AAIP 20 AUG. 2021 <i>[Signature]</i>
		DECEMBER 30, 2021 AAIP COMPLIANCE	IN ACCORDANCE WITH THE "APPROVED AIRCRAFT INSPECTION PROGRAM" ITEM IV. THE CAF GULF COAST WING IS IN COMPLIANCE WITH THEIR AAIP	TERRY M. BARKER <i>[Signature]</i> AAIP <i>[Signature]</i> IA

DATE: MARCH 29, 2022 AIRCRAFT: N7227C

I certify that the altimeter, transponder, and static system tests and inspections required by FAR 91.411 and 91.413 have been completed and found to comply with FAR 43, Appendix E and F.

Transponder Model TT22 S/N 10230

Pilot Altimeter Model 101720-015 S/N 0106580

Altimeter(s) tested to 20,000 ft *[Signature]*

AVIONICS UNLIMITED FAA AAC

NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		AAIP INSPECTION #1 doc	AAIP INSPECTION #1 Completed	3 MARCH 2022 TERRY M. BARKER A&P [REDACTED] IA
			This Aircraft has been inspected I/A/W an Approved Aircraft Inspection program as required by FAR 91.409(F)(4) and is Approved for return to service. * See AAIP inspection Form #1 and GCD Form TR1000 for work performed ACFT 9140.1	

MONTH/YEAR 4/2022	MODEL B-176	SERIAL NO. 77235	REGISTRATION NO. N 7227C	UNIT GCW	PAGE NO.	
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NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		AAIP inspection #2 due	AAIP inspection #2 completed This A/C has been inspected I/A/W an Approved Aircraft inspection program as required by FAR 91.409 AIP (F)(4) and is APPROVED for return to service * SEE AAIP inspection FORM #2 and GCW FORM TR 1000 for worked performed ACFT 9165.3	21 JUN 2022 Frym-Barker [REDACTED] [REDACTED] IT

NO	X	DATE / FAULTS AND/OR REMARKS / SIGNATURE	A/C TIME / ACTION TAKEN / DATE / SIGNATURE	SIGNATURE / NAME DATE / CERTIFICATE / TYPE / NO.
1		AAIP INSPECTION #3 due	AAIP INSPECTION #3 Completed This aircraft has been inspected I/A/W an Approved Aircraft INSPECTION program as required by FAR 91.409(F)(4) and is Approved for Return to service. * see AAIP INSPECTION form #3 and GCW FORM TR1000 for work performed. ACTT 9189.7	11 AUG 2022 Terry M. Barker [REDACTED] [REDACTED] ITA



U.S. Department
of Transportation
**Federal Aviation
Administration**

Aircraft Certification Service
Compliance & Airworthiness Division

Seattle ACO Branch
1601 Lind Avenue Southwest
Renton, WA 98057-3356

NOV 17 2017

In Reply

Refer To: 782-17-1872

Commemorative Air Force
c/o Jim Lasche
5661 Mariner DR
Dallas, TX 75376

Dear Mr. Lasche:

This office received a request on November 18, 2016, from the Commemorative Air Force (CAF) on behalf of Mr. Jed Doggett for an alternative method of compliance (AMOC) for Airworthiness Directives (AD) 73-20-02 and 77-17-11 for Boeing B-17G aircraft with Serial Number (S/N) 77235, bureau number 44-83872, and registry N7227C, operated by the Gulf Coast Wing of the CAF. In response, we issued our letter 120S-16-406 dated December 21, 2016, approving this request.

Mr. Doggett has since informed us that he has left the CAF and requested that we remove his name from this approval. Therefore, we are replacing letter 120S-16-406 with this letter, which provides the same AMOC approval for this aircraft.

AD 73-20-02 requires, in part, removal of bolts and either eddy current or borescope plus dye penetrant inspection to detect cracking of the front spar center section lower chord, and corrective actions, if necessary. After repairs are accomplished, then in accordance with Paragraph (c), this inspection is to be repeated at intervals not to exceed 150 hours time in service or 12 months, whichever occurs first.

Similarly, AD 77-17-11 requires, in part, removal of bolts and either eddy current or borescope plus dye penetrant inspection to detect cracking of the rear spar center section lower chord, and corrective actions, if necessary. After repairs are accomplished, in accordance with Paragraph 3, this inspection is to be repeated at intervals not to exceed 150 hours time in service or 12 months, whichever occurs first.

The previous request stated that compliance with these ADs was accomplished by performing the inspections annually, with no findings of cracks or corrosion; that both spars were treated at each inspection with corrosion inhibiting compound; and that the spars are in excellent condition.

You express a concern that harm may be done to the airplane parts via this frequent bolt removal and installation. You have seen signs of scratching on the bolts, and you would like to prevent metal loss as much as possible.

You propose to increase the inspection interval to 5 years or 750 hours while continuing to treat the spars with corrosion inhibiting compound once each year. You also note that this airplane is hangared and is not exposed to the elements on a regular basis; that the wing roots have very good fairings that do an excellent job of keeping water off the critical areas of these spars; and that although the airplane is outside several times each year, when the forecast shows precipitation, you install a custom cover over the cockpit and radio room openings to prevent rain from running into the fuselage.

Your proposal provides an acceptable level of safety because your experience in complying with these ADs has resulted in no adverse findings, and you are operating the aircraft and taking other measures to reduce the likelihood of corrosion and cracking in the AD mandated inspection areas.

The Manager, Seattle ACO Branch, FAA, with concurrence from your Principal Maintenance Inspector, approves accomplishment of the inspections required by Paragraph (a) of AD 73-20-02 at intervals not to exceed 5 years or 750 hours, whichever occurs first, as a change in compliance time to the intervals required by Paragraph (c) of AD 73-20-02.

In addition, the Manager, Seattle ACO Branch, FAA, with concurrence from your Principal Maintenance Inspector, approves accomplishment of the inspections required by Paragraph 1 of AD 77-17-11 at intervals not to exceed 5 years or 750 hours, whichever occurs first, as a change in compliance time to the intervals required by Paragraph 3 of AD 77-17-11.

This approval is contingent upon the following:

1. Annual application of corrosion inhibiting compound to the bolts and surrounding areas of the center sections of the front and rear spars at the locations specified in ADs 73-20-02 and 77-17-11, in conjunction with a detailed inspection in the areas that are accessible during this application for cracking and signs of corrosion.
2. Repair and findings of cracking or corrosion prior to further flight in accordance with ADs 73-20-02 or 77-17-11.
3. Report any findings of cracking or corrosion to this office within 30 days of such findings.

In accordance with FAA Order 8110.103, the following conditions apply to Alternative Methods of Compliance (AMOC), and therefore to this change in compliance time approval:

1. All provisions of ADs 73-20-02 and 77-17-11 that are not specifically referenced above remain fully applicable and must be complied with accordingly.
2. This approval is applicable to Boeing B-17G with S/N 77235.
3. This approval is not transferable with the airplane to other operators. A transferable AMOC is an AMOC that will continue to apply to a product after it has been transferred to a new owner/operator.

4. Before using this AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.
5. The FAA, Seattle ACO Branch, will revoke this AMOC if the FAA, Seattle ACO Branch, later determines that this AMOC does not provide an acceptable level of safety.

If you have any questions regarding this correspondence, please contact Mr. Alan Pohl at email [REDACTED] or at telephone number [REDACTED]

Sincerely,

[REDACTED]

for Ross Landes
Manager, Seattle ACO Branch
Compliance & Airworthiness Division
Aircraft Certification Service



U.S. Department
of Transportation
**Federal Aviation
Administration**

Aircraft Certification Service
Compliance & Airworthiness Division

Seattle ACO Branch
1601 Lind Avenue Southwest
Renton, WA 98057-3356

NOV 17 2017

In Reply

Refer To: 782-17-1773

Commemorative Air Force
c/o Jim Lasche
5661 Mariner DR
Dallas, TX 75376

Dear Mr. Lasche:

This office received a request on February 10, 2015, from the Commemorative Air Force (CAF) on behalf of Mr. Jed Doggett for a method of compliance (MOC) for Airworthiness Directive (AD) 2001-22-06 for Boeing B-17G aircraft with Serial Number (S/N) 77235, bureau number 44-83872, and registry N7227C, operated by the Gulf Coast Wing of the CAF. In response, we issued our letter 120S-15-56 dated February 23, 2015, approving this request.

Mr. Doggett has since informed us that he has left the CAF and requested that we remove his name from this approval. Therefore, we are replacing letter 120S-15-56 with this letter, which provides the same MOC approval for this aircraft.

AD 2001-22-06 requires, in part, inspections to detect cracking and corrosion of the wing spar chords, bolts and bolt holes of the spar chords, and wing terminals, and correction of any discrepancy found during these inspections. Paragraph (b) of this AD requires either inspections performed in conjunction with separating all eight wing terminal-to-spar chord joints in accordance with a method approved by the Manager, Seattle ACO Branch per paragraph (b)(1), or inspections that do not include joint disassembly in accordance with paragraph (b)(2). You have been previously complying with paragraph (b)(2)(ii), which requires repetitive inspections. You now seek approval for previously accomplished and documented actions as a MOC for paragraph (b)(1).

The previous request stated that the wings and all eight spar end terminal fittings were removed, and that dye penetrant inspections were performed on each of the spars. As a result of these findings, repairs were performed, including splicing in new sections of spar chords in accordance with Boeing Technical Order 1B-17G-3 HDBK.

This proposal provides an acceptable level of safety because it demonstrates compliance with the provisions of paragraph (b)(1) of AD 2001-22-06, and the repairs were accomplished in accordance with the manufacturer's data.

The Manager, Seattle ACO Branch, FAA, with concurrence from your Principal Maintenance Inspector, approves accomplishment of the inspections and repairs described in the CAF letter

received February 10, 2015 as a MOC for the inspections and repairs required by paragraph (b)(1) and (c) of AD 2001-22-06.

In accordance with FAA Order 8110.103, the following conditions apply:

1. All provisions of AD 2001-22-06 that are not specifically referenced above remain fully applicable and must be complied with accordingly.
2. This approval is applicable to Boeing B-17G with S/N 77235, bureau number 44-83872.
3. This approval is transferable with airplane(s) to other operators. A transferable MOC is a MOC that will continue to apply to a product after it has been transferred to a new owner/operator.
4. Before using this MOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.
5. The FAA Seattle ACO Branch will revoke this MOC if the FAA Seattle ACO Branch later determines that this MOC does not provide an acceptable level of safety.

If you have any questions regarding this correspondence, please contact Mr. Alan Pohl at email [REDACTED] or at telephone number [REDACTED].

Sincerely,

[REDACTED]

for Ross Landes
Manager, Seattle ACO Branch
Compliance & Airworthiness Division
Aircraft Certification Service