

Seabee Annual/100-Hour Inspection

Date _____

Completed _____

ENGINE

Mechanic's Initials

- | | | |
|----|--|-------|
| 1 | Drain engine oil and check for foreign material | _____ |
| 2 | Check oil screen for proper rotation or looseness | _____ |
| 3 | Safety Oil Plug | _____ |
| 4 | Refill Oil Sump | _____ |
| 5 | Clean both carburetor screens | _____ |
| 6 | Check carburetor for attachment and safeties | _____ |
| 7 | Clean fuel strainer, check bowl for corrosion and safety | _____ |
| 8 | Drain fuel cell and safety | _____ |
| 9 | Check all fuel and oil lines for chafing, security and damaged
Flares and old hoses | _____ |
| 10 | Check fuel pumps for tightness, safeties and modifications | _____ |
| 11 | Clean carburetor air filter and check heat valve | _____ |
| 12 | Inspect carburetor intake heat box and air duct | _____ |
| 13 | Inspect intake system for leaks and tighten | _____ |
| 14 | Inspect cooling ducts and blast tubes | _____ |
| 15 | Check exhaust stacks for tightness in cylinders | _____ |
| 16 | Check exhaust shrouds and clamps for breakage and
tighten tail pipes | _____ |
| 17 | Inspect engine cylinder baffles | _____ |
| 18 | Check engine mounts for looseness and safety wire bolts | _____ |
| 19 | Repair and repaint engine mount channels if necessary and
check tightness of nuts and bolts | _____ |
| 20 | Check tach housing for kinks and leaks | _____ |
| 21 | Tighten tach drive housing | _____ |
| 22 | Tighten all pan bolts | _____ |
| 23 | Tighten timing cover bolts | _____ |
| 24 | Tighten crankcase and nose case bolts | _____ |
| 25 | Check cylinder hold down bolts | _____ |
| 26 | Check rocker covers for leaks | _____ |
| 27 | Check all flywheel bolts for safeties and corrosion | _____ |
| 28 | Check starter brushes and lube rear bearing and bendix
and check shaft for play | _____ |
| 29 | Check starter and generator for security and for broken
brackets | _____ |
| 30 | Check generator brushes. Lube front and rear bearings
And check for play in the bearings | _____ |
| 31 | Inspect fan belt for wear and tension | _____ |
| 32 | Check starter and generator wiring | _____ |
| 33 | Check ground and switch wiring | _____ |
| 34 | Check security of oil temp line and cylinder head leads | _____ |

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- 35 Inspect oil cooler for leaks and looseness of bolts and fittings _____
- 36 Wash down engine _____
- 37 Check all controls for freedom, rig, safeties and lubricate _____
- 38 Service spark plugs and check compression _____
- 39 Inspect ignition harness and check for loose terminals _____
- 40 Check mags for cam wear, points, point gap, timing
And general condition and lubricate _____
- 41 Check distributor for cam wear, points, point gap,
Cracked rotor or cap, timing, general condition and lubricate _____
- 42 Check coil for cracked supports and tightness _____
- 43 Inspect cowling for cracks, loose bolts, felts, fasteners and
worn weather stripping _____
- 44 Check all cowl formers for breakage _____
- 45 Run up engine and check for fuel and oil leaks. Check sump
plug boss for leaks _____
- 46 Sign off all material and check AD notes _____
- 47 Test fly and complete inspection _____

Remarks:

PROP

- 1 Check hub for serial 4300 or above and service if below _____
- 2 Check blades for cracks, tipping, space between sections,
Nicks, freedom, loose rivets and end and side play _____
- 3 Check hydraulic element for loose dowels, leaks, grease
Fitting, worn jack plates and link screws _____
- 4 Check valve for security, leaks, safeties, spring and loose
Or worn stops _____
- 5 Adjust prop for 2425 RPM static and proper reversing and
Pull down _____
- 6 Check prop control wire for security and wear _____
- 7 Check prop hoses for condition _____
- 8 Sign off all material _____
- 9 Lubricate prop and bearing _____

Remarks:

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AIRFRAME WINGS

- 1 Check for corrosion and inspect:
 - a. Front and rear spar and all bolts and fittings _____
 - b. Aileron and Flap hinges _____
 - c. Wing tip screws _____
 - d. Wing fairing and screws _____
 - e. Wing strut, fittings and fairing _____
 - f. Float and float struts _____
 - g. Wing in general _____
- 2 Check for loose bolts or bushings:
 - a. Flap and actuator _____
 - b. Aileron and actuator _____
 - c. Wing floats and struts _____
 - d. Wing strut attach fitting to fuselage _____
- 3 Check aileron cables for rust, flat spots, safeties, rigging and tensions _____
- 4 Check for loose rivets on trailing edges of flap and aileron and inboard fairings _____
- 5 Check condition of paint on all surfaces _____
- 6 Check condition of chafe rubbers _____
- 7 Lubricate hinges and bushings _____
- 8 Remove float strut from wing and check for cracks at the shear points (holes on upper forward and aft edges) _____

Remarks:

EMPANAGE and TAIL BOOM

- 1 Check for corrosion and inspect:
 - a. Stabilizer spars and bolts _____
 - b. All hinges _____
 - c. Inspection covers and surrounding surfaces _____
 - d. Water rudder assembly _____
 - e. Interior and exteriors of all surfaces _____
 - f. Trim tab mechanisms and cables _____
 - g. Elevator collars _____
- 2 Check for loose bolts or bushings:
 - a. Elevator hinges and cable connections _____
 - b. Rudder hinges and cable connections _____
 - c. Trim tabs _____

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EMPANAGE and TAIL BOOM (cont.)

- 3 Check all cables for rust, flat spots, rigging, tensions, safeties and pulleys _____
- 4 Check for loose rivets on rudder tab, trailing surfaces and rudder stops _____
- 5 Check wiring and lights _____
- 5 Lubricate trim tab mechanism, all hinges & cable connections _____

Remarks:

CABIN and GONDOLA

- 1 Check cables for rust, flat spots, tension, rigging, safeties, pulleys and track _____
- 2 Check cable guards for corrosion _____
- 3 Check for corroded lines behind seats and cut away upholstery _____
- 4 Check fuel tank cover for corrosion _____
- 5 Check all lines and wires in baggage for condition and security _____
- 6 Check gondola and hat section for cracks _____
- 7 Check seats and seat cushions _____
- 8 Check doors for corrosion, friction locks, check hinges and door locks _____
- 9 Check condition of windows and clearview panel _____
- 10 Check flight controls for freedom, stops and looseness _____
- 11 Take up slack in aileron chain and lubricate _____
- 12 Check instruments for markings, operation and connections _____
- 13 Check prop reverse for swiveling in cabin _____
- 14 Check wires and lines under instrument panel for security _____
- 15 Blow out airspeed, Turn and Bank and manifold (MP) lines _____
- 16 Clean filter on Turn and Bank _____
- 17 Install short screws in center of cable guard _____
- 18 Check lights and accessories _____
- 19 Service battery, check for corrosion in battery box, check leads for tightness and clean vents _____
- 20 Check aerial (antenna) condition _____

Remarks:

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HULL and BOTTOM

- 1 Check corrosion and inspect paint on interior and exterior surfaces _____
- 2 Check all cables for rust, flat spots, tension, rigging, safeties and free pulleys _____
- 3 Check condition of tail wheel actuating cylinder assembly and lubricate _____
- 4 Check hydraulic lines and wires _____
- 5 Check freedom of main gear linkage and lubricate _____
- 6 Check main gear actuating link, fork and lower end of Cylinder _____
- 7 Check hydraulic pump and cylinder for leakage, safeties and operation _____
- 8 Check bottom for loose rivets and condition of stiffeners _____
- 9 Inspect covers for broken chains, gaskets, rusty threads _____
- 10 Remove hull plugs _____
- 11 Replace hull plugs and lubricate _____
- 12 Check micro switches and lubricate _____

Remarks:

LANDING GEAR

- 1 Inspect main gear and tail wheel bearings and repack _____
- 2 Check wheels for cracks and condition of tires and inflation _____
- 3 Check brake springs, lining, and drum condition _____
- 4 Set brake drag and fill brake cylinders _____
- 5 Check oleos for pitting, leaking and inflation _____
- 6 Check for loose axles and cracking castings _____
- 7 Check condition of brake lines _____
- 8 Retraction test _____
- 9 Check tail wheel lock or steerable system _____
- 10 Grease landing gear _____
- 11 Check tail wheel collar for cracks _____
- 12 Check 90° main gear elbow for cracks (bottom side) _____
- 13 Remove main gear, check for corrosion inside cross tube _____
- 14 Check center cross tube bolts for wear _____

Remarks: