## Annual / 100 Hour Inspection (Airframe)

AIRCRAFT REG. NO. MAKE MODEL
AIRCRAFT SERIAL NO. T.T. TACH SMOH
ENGINE SERIAL NO. T.T. MODEL SMOH

Inspection: Add Initials if item inspected was found to be Airworthy

► Symbol indicates need for Inspector and Mechanic or Pilot Signature
Add N/A if item is not applicable to this aircraft
Add the Word Failed if item inspected was found to be Unairworthy and
List Reason for Failure in Discrepancy Record on page 5.

#### PRE-INSPECTION

Airworthy

- 1. AD's / Airframe / Engine / Propeller / Appliances. FAR 91.417(a)(2)(v)
- Manufacturer's Bulletins.
- 3. Current Registration & Airworthiness Certificate I/A/W 91.203
- 4. Weight / Balance and Equipment List.
- 5. FCC / Radio Station License if required.
- 6. Aircraft Modifications include proper paperwork. (337's, etc.)
- 7. Aircraft Registration Markings / Flight Manual I/A/W FAR 91.9
- 8. Necessary Inspection Aids Available.
- 9. Remove / Open inspection plates, access door, fairing, & cowlings.
- 10. Aircraft thoroughly cleaned.

Airworthy L R

#### WINGS

- 1. Inspected for general condition, deterioration, distortion & corrosion.
- 2. Inspected for evidence of failure and insecurity of attachment.
- 3. Spar Attachments
- 4. Strut Attachments
- 5. Skin and structure condition
- 6. Pitot tube and plumbing
- 7. Stall Warning Operation
- 8. Landing Lights
- 9. Fuel Vents
- 10. Fuel Caps and Placards
- 11. Drain Tank Sumps (Tail Low)
- 12. Check for Fuel Leaks
- 13. Electrical Wiring
- 14. Tips and Nav Lights
- 15. Ailerons:
  - a. Cables, Pulleys, Turnbuckles
  - b. Bellcranks, Pushrods, inspected & Lubed
  - c. Travel and Operation
  - d. Balance Weights
  - e. Inspected Hinges, Cotter Pins and Attachments, Lubed
  - f. Skin and Structure
- 16. Flaps:
  - a. Cables, Pulleys, Turnbuckles
  - b. Bellcranks, Pushrods, inspected & Lubed
  - c. Travel and Operation
  - d. Bearings and Tracks, Inspected and Lubed
  - e. Skin and Structure
  - f. Motor and Drive Mechanism Inspected and Lubed

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#### > EMPANAGE Airworthy

- Elevator Hinges, inspected, Bearings Lubed
- 2. Elevator Travel and Operation inspected
- 3. Elevator Cables, Bellcranks, inspected & Lubed
- 4 Elevator Skin and Structure
- 5. Rudder Hinges, Bearings-lubed
- 6. Rudder Travel and Operation
- 7. Rudder Cables, Horn and Turnbuckles
- 8. Rudder Skin and Structure
- 9. Trim Hinges and Jacks
- 10. Trim Travel, Operation and lubed.
- 11. Trim Horn and pushrod
- 12. Trim Cables, Pulleys and Chains
- 13. Trim Tab Skin and Structure
- 14. Stabilizer Skin, Spar & Attachment
- 15. Fin Skin, Structure, & Attachment
- 16. Antennas and Wiring
- 17. Nav. Light
- 18. Beacon Security

### > CABIN / COCKPIT Airworthy

- 1. Rudder, Pedals, Torque Tubes, Cables, and Springs, Inspected & Lubed
- 2. Nose Gear Steering Mechanism Inspected and Lubed
- 3. Master Cylinders, Fluid Level, Hoses and Mountings
- 4. Parking Brake
- 5. Main Gear Attachments
- 6. Fuel Selector, Plumbing and Placards
- 7. Hydraulic Plumbing
- 8. Control Cables, Pulleys and Turnbuckles:
  - a. Behind Panel
  - b. Under Floor
  - c. In Door Posts
  - d. Above Headliner
- 9. Control Yoke & Wheels, Inspected and Lubed
- 10. Elevator Pushrod and Bellcrank lubed
- 11. Electrical Wiring:
  - a. Behind Panel
  - b. Under Floor
- 12. Cabin Internal Structure, for loose equipment, cleanliness
- 13. Seats and Seat Rails for poor condition and apparent defects, AD's
- Seat Belts, Safety Restraints for Condition and proper operation, AD's
- 15. Windows and windshields for deterioration and breakage
- 16. Sun Visors for condition
- 17. Doors, seals inspected & latches lubed and checked for proper operation.
- 18. Instrument Mounts & Shock mounts, condition, proper installation
- 19. Instrument Markings
- 20. Instrument Plumbing
- 21. Instrument Filters
- 22. Batteries for proper installation, cleanliness, and proper charge.

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### CABIN / COCKPIT CONTINUED

Airworthy

- 23. Suction Regulator
- 24. Flight and Engine Controls for proper installation and operation
- 25. Radio Mount in Panel
- 26. Switches and Circuit Breakers
- 27. Flap Control Mechanism
- 28. Trim Control Mechanisms
- 29. Cabin Vents
- 30. Ashtrays, for cleanliness, corrosion
- 31. Spare Fuses if needed
- 32. Required Plackards Per Type Certificate Data Sheet and AD's if req.

### > FUSELAGE Airworthy

- 1. In-Tail Assembly:
  - a. Structure, for condition, corrosion, deterioration, defects, attachments.
  - b. Control Cables, Pulleys and Turnbuckles inspected and lubed.
  - c. Electrical Wiring & Equipment, routing, insecure mounting, condition
  - d. Bonding and shielding for improper installation and poor condition.
  - e. Radio Equipment and Rack, proper installation, secure mounting
  - f. Antenna Mounts, condition, secure mounting
- 2. External:
  - a. Skin for deterioration, distortion, corrosion, failure, defects, attachments
  - b. Antennas for condition, secure mounting and proper operation
  - c. Static Ports, obstructions, cleanliness
- 3. Battery:
  - a. Box Security, proper installation
  - b. Box Cleanliness Drain Open and not obstructed
  - c. Water Level
  - d. Specific Gravity Check
  - e. Cables and Solenoids, condition, security
- 4. Fuel System:
  - a. Low Point Drains
  - b. Gascolator

## MAIN LANDING GEAR

Airworthy

- 1. Tires and Tubes for wear, cuts and proper inflation.
- 2. Wheels and Axles inspected for cracks, defects and condition.
- Wheel Installed and Safetied.
  - Bearings checked and packed.
  - 5. Brakes, Lining, Disc, Cylinder, condition, and proper adjustment.
  - 6. Gear Legs
  - Strut Level
  - 8. Torque Links
  - 9. Brake Fluid Level
  - Brake Lines for leakage, proper routing and condition.
  - Shock absorbing devices for improper oleo fluid level if installed.
  - Retracting and locking mechanism for proper operation if installed.
  - Electrical System for chafing and improper operation of switches.
  - 14. Floats and Skis for insecure attachment and defects if installed.

Date:

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### TAIL LANDING GEAR

Airworthy

- 1. Security in Attachment to Fuselage.
- 2. Steering Cables and Pulleys
- 3. Swivel Clean and lubed
- 4. Tire and Tube condition.
- 5. Wheels inspected for cracks, defects and condition.
- 6. Wheel Installed and Safetied.
  - 7. Bearings checked and packed.
  - 8. Tire for proper inflation

Airworthy

## PROPELLER ASSEMBLY

- 1. Inspected for cracks, nicks, binds and oil leakage.
- 2. Inspected bolts for improper torquing and lack of safetying.
  - 3. Inspected control mechanisms for improper operation, insecure mounting.
  - 4. Inspected control mechanisms for restricted travel.
  - 5. Inspected Anti-icing devices for improper operation and defects if installed.

AIRCRAFT REG. N	0	MAKE	Start Da MODEL	ate:
AIRCRAFT SERIAL	NO.	т.т.	TACH	SMOH
ENGINE SERIAL N	0.	т.т	MODEL	SMOH
<ul> <li>2. Close Up</li> <li>3. Radio / E</li> <li>4. Flashlite</li> <li>5. First Aid</li> <li>6. ELT for I</li> <li>7. Fire Exti</li> <li>8. Headset</li> </ul>	All Tools, Etc. o Aircraft Electrical Units, Che Condition Kit Condition Proper Installation, nguisher Charge		eration I/A/W FAR 91.:	Airworthy 207(d)(a)
<ul><li>11. New Oil</li><li>12. Aircraft</li><li>▶ 13. Log Boo</li></ul>	e Static Source  – Inspection Stick and Windows Clea	ned ection Forms C	ompleted (Including E	Engine)
Mechanic's Signature		(Pilot aut	Date Inspec Complete horized to perform F	ed
Inspector's Signature			Date Inspec Complet	
	NOTES or DIS	CREPANCIES	RECORDED / REME	DY
Date:			,	
I certify that th	is aircraft has bee mined to be in an	en inspected in airworthy cond		•
	S	ignature:		

# Annual / 100 Hour Inspection (Engine)

					Date:		
180082500	CRAFT REG. NO.	MAI		MODEL			
	CRAFT SERIAL NO.		. <u>Т</u>	TACH	SMOH		
E	ENGINE SERIAL NO.	T	.Т	MODEL			
Ins	Add N/A if iten Add the Word	cates need for n is not applic Failed if item	r Inspector and able to this a inspected w	nd Mechanic or nircraft	Pilot Signatu		
A	PRE-INSPECTION  1. AD's Engine / Appl 2. Manufacturer's Bul 3. Current Registratio 4. Necessary Inspecti 5. Remove / Open ins 6. Engine thoroughly 7. Pilot Discrepancies	letins. In & Airworthine Ion Aids Availa Spection plates cleaned.	ess Certificate ble.	e I/A/W 91.203	- - -	irworthy	
>	FUNCTION REPORT	Airworthy Prelim Run-up	Airworthy Finish Run-up	FUNCTION Conti	N REPORT nued	Airworthy Prelim Run-up	Airworthy Finish Run-up
1.	Cowl Flap Operation	Kull-up	Kull-up	13. Mag Drop @	Q RPM	Kull-up	Run up
	Oil Pressure at Start			14. Car Heat @			
3.	Flight Control Check			15. Prop Cycle	@ RPM		
4.	Avionic Check		V	16. Suction Gag	ge @ RPM		
5.	Flight Instruments			17. Oil Pressure	e @ RPM		
6.	Fuel Gauges			18. Gen. Output			
7.	Cylinder Head Temp.			<ol><li>Fuel Pressu</li></ol>			
8.	Oil Temperature			20. Ex. Gas Ter			0
9.	Cabin Heat & Vents			21. Max Static F			
	Brakes - Steering			22. Max Static			0
	. Mag Switch Ground Ck . Carb. Air Temperature			<ol> <li>Throttle Op</li> <li>Idle Mixture</li> </ol>		1	a <del></del>
12.	. Carb. All Temperature			24. Idio Mixtari			
A	ENGINE INSPECTION					irworthy	
	<ol> <li>Perform Compress</li> <li># 1 # 2</li> <li>Inspect Engine for</li> <li>Drain Oil</li> <li>Remove and Inspect</li> <li>Clean Safety Oil Section</li> <li>Reinstall and Safet</li> <li>Refill with Proper</li> <li>Inspect Cowling for</li> </ol>	# 3# 3 F Oil, Fuel, Hydelect Engine Oil Screens and Relety the Oil Drain Type and Quar	# 4 raulic or Exha Screen and/or einstall (Install n Plug ntity of Oil – Ty	_ # 5 # ust Leaks  Oil filter, if Appl New Filter & Sa	6		
	9. Remove, Clean, C	Sap, Test and F	Rotate Sparkp	lugs			
	<ol><li>Inspect Mag Interi</li></ol>	or and Points -	<ul> <li>Inspect Igniti</li> </ul>	on Harness			
	11. Check Mag Timing	according to I	Engine Specs				
	<ol><li>Reinstall and Torce</li></ol>	ue Spark Plug	s – Reconnec	t Ignition Harnes	ss _		
	13. Wash-Down Enigr	ne, Firewall, Pr	opeller and Co	owling	STATE AND		

## Annual / 100 Hour Inspection (Engine Continued)

		Da	ate:
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ENGINE SERIAL NO.	T.T.	MODEL	SMOH

## ENGINE INSPECTION CONTINUED

Airworthy

- ▶ 14. Drain Carburetor Float Bowl Safety plug (180)
  - Remove Fuel Inlet Screen from Carb or Injection Throttle Body Clean, Inspect Reinstall and Safety
    - 16. Inspect Injectors and lines, clean as necessary
- Remove Gascolater Bowl, Inspect Screen, Reinstall, Safety and Check for Leaks.
  - 18. Inspect EFS System, Valve, Hoses, Control, Clean Inline Filter (206)
  - 19. Inspect and Service Intake Air Filter
  - 20. Inspect Intake Air Box and or Alternate Air System
  - Inspect Exhaust System for cracks in tubing, Exhaust Gaskets for leaks, attachment, Remove Heat Muffs – Inspect and Reinstall
  - 22. Inspect all Aeroducting, Blast Tubes and Breather Lines for Obstruction, Condition, Security and Chafing
  - 23. Inspect Engine Baffles for Security, Position and Chafing
  - Inspect Engine Mounts / Vibration Dampeners for Cracks, Security, Corrosion and Condition of Shock Mounts
  - 25. Inspect Generator / Alternator Mounting, Brushes and Belt Tension
  - 26. Inspect Starter Brushes, Mounting, Drive and Seals, where applicable
  - Inspect all Electrical Harness and Terminals/Shielding for Condition, Position, Proper Routing and Security.
  - 28. Inspect Batter Box for cleanliness & Condition-Vent for obstructions Check Battery Electrolyte Level & Condition of Cables & Terminals
  - 29. Inspect Hoses, Lines, Clamps Fittings, for leaks, condition, looseness.
  - 30. Inspect Vacuum Pump Mounting, Seals, Lines, Regulator & Pump Drive
  - 31. Inspect Suction Regulator Filter for Cleanliness
  - 32. Inspect Prop Governor for Security and Condition
- 33. Propeller Tight on Shaft Check Safties where used
  - 34. Check Propeller Blade Track
  - 35. Prop Hub Condition, Seals, Lubrication
- 36. Check all Engine Controls for Proper Travel and Ease of Movement, Check for Improper Safties, Lube where applicable
- 37. Re-install Prop Spinner
  - 38. Inspect Accessories for apparent defects in security of mounting
  - 39. Inspected Studs and nuts for improper torquing and obvious defects.

# Annual / 100 Hour Inspection (Engine Continued)

		D	ate:	
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ENGINE SERIAL NO.	T.T.	MODEL	sмон	
POST INSPECTION			Airwort	hy
<ol> <li>Perform Finish Run Up</li> <li>All tools/equipment col</li> <li>Final Check, Safeties</li> <li>Re-Install Cowl</li> <li>Log Book Entries and</li> <li>Return to Service Form</li> </ol>	lected and accounted  Inspection Forms Cor			
Mechanic's Signature		Date Inspec Complete		
	(Pilot auth	orized to perform P	reventive Maint.)	
Inspector's Signature		Date Inspection Completed		
NOTES or	DISCREPANCIES R	ECORDED / REMEI	DΥ	