

LIGHT AIRCRAFT INSPECTION CHECKLIST

EVALUATOR: _____ **DATE:** _____

NOTE: Verification of some of the following items should be obtained from airframe/engine logs if available. Each item listed may not apply to every aircraft.

A. AIRCRAFT

- 1) **Aircraft Name** _____ **Price** _____

- 2) **Manufacturer** _____
 - CURRENTLY IN OPERATION YES NO
 - PARTS AVAILABLE YES NO

- 3) **Configuration:** TRACTOR PUSHER TAILDRAGGER TRICYCLE

- 4) **Type:** CONSTRUCTION ASSEMBLY

- 5) **Airframe Material:** WOOD METAL FIBERGLASS

- 6) **Year Built:** _____

- 7) **USUA Registered** Yes No

- 8) **N-Numbered** Yes No

- 9) **Bill of Sale/Registration** Yes No

- 10) **Manuals**
 - ASSEMBLY YES NO
 - OPERATION YES NO

- 11) **Logs**
 - ENGINE YES NO
 - AIRFRAME YES NO

- 12) **Current Weight and Balance** Yes No

13) Original Equipment

→HAS ORIG. EQUIPMENT BEEN REPLACED	YES	NO
LIST: _____		
→IS ENGINE SIZE ORIGINAL CONFIGURATION	YES	NO

B. AIRFRAME

1) Corrosion

→TUBING	YES	NO
→WHEELS	YES	NO
→BOLTS/NUTS	YES	NO
→CABLES/NUTS/SWAGES	YES	NO

2) Non-AN Bolts Yes No

LOCATION: _____

3) Damage To Airframe

METAL (cracks, elongated holes etc.)	YES	NO		
WOOD (soft, rotten, cracked, split, glue flaking)	YES	NO		
FIBERGLASS (cracked, holes)	YES	NO		
→CABLES/SWAGES/TANGS/SADDLES	YES	NO		
→KINGPOST	YES	NO		
→STRUTS	YES	NO		
→FUSELAGE	YES	NO		
→LANDING GEAR				
MAIN GEAR	LEFT	RIGHT	YES	NO
NOSE WHEEL ASSY			YES	NO
TAIL WHEEL ASSY			YES	NO

4) Control Cables (ELEVATOR, RUDDER, AILERONS, FLAPS) New Serviceable Replace

5) Fabric New Serviceable Replace

→TYPE (dacron, ultralam, stits coated, etc)		
→ORIGINAL	YES	NO
DATE RECOVERED: _____		
→TORN	YES	NO

Location(s): _____

→FADED/DISCOLORED (compare to underside of surfaces) YES NO
 →PUNCH TEST PERFORMED YES NO
 Location(s):_____

6) Ballistic Parachute Yes No
 →BRS SECOND CHANTZ OTHER_____
 →TYPE: MORTAR BALLISTIC COMP. AIR
 →REPACK DATE_____

7) Harness/Seat Belt Yes No

8) Seat New Serviceable Replace
 TYPE: LO-BACK HI-BACK SLING SEAT-TANK COMBO

9) Tires (checks/cracks/irr. wear) New Serviceable Replace

10) Wheels (cracked, warped) New Serviceable Replace

11) Brakes: HYDRAULIC CABLE New Serviceable Replace

12) Windshield (cracked, scratched) New Serviceable Replace

13) Fuel Tank (cracked, flaking) New Serviceable Replace

(EXAMINE INSIDE AND OUTSIDE OF TANK)

C. POWERPLANT

1) Engine In Operating Condition Yes No

→MANUFACTURER: ROTAX CUYUNA HIRTH OTHER_____
 →SIZE: (277, 447, etc)_____2-CYCLE 4-CYCLE
 →CYLINDERS: 1 2 3 4
 →HORSEPOWER:_____
 →IGNITION TYPE: POINTS CDI
 →CARBURATION: SINGLE DUAL ELLISON BODY CV OTHER_____
 →SERIAL NUMBER:_____
 →NON-STANDARD EQUIPMENT (silencers, balancers, etc)
 LIST:_____

→OVERHAUL OR MAJOR WORK PERFORMED YES NO
 Describe: _____
 →TOTAL HOURS IN OPERATION: _____
 →TOTAL HOURS SINCE OVERHAUL: _____
 →EXTERNAL CORROSION YES NO

2) Gear Box

→TYPE: A B C OTHER _____
 →RATIO: (2.24, 2.58, Etc) _____
 →FWD-AFT FREE-PLAY YES NO
 →SMOOTH, QUIET OPERATION (remove spark plugs) YES NO
 →GEAR LUBE CHANGED YES NO
 →SERVICE/UPGRADES PERFORMED YES NO

3) Belt Drive Assembly

→SHAFT AND BEARING (visually inspect) NEW SERVICEABLE REPLACE
 →BELTS NEW SERVICEABLE REPLACE

4) Carburetor

→TYPE AND MODEL: (Bing 84, Mikuni, Ellison, CV, etc) _____
 SINGLE DUAL
 →SERVICE PERFORMED YES NO
 →RUBBER SOCKET(S) NEW SERVICEABLE REPLACE
 →THROTTLE CABLE(S) NEW SERVICEABLE REPLACE
 →CHOKE CABLE(S) NEW SERVICEABLE REPLACE

5) Fuel System

→PUMP TYPE: MIKUNI BING OTHER _____
 SINGLE DUAL
 →SERVICE PERFORMED YES NO
 →PRIMER(S)
 BULB TYPE NEW SERVICEABLE REPLACE
 PUMP TYPE NEW SERVICEABLE REPLACE
 →FUEL FILTER NEW SERVICEABLE REPLACE
 →AIR FILTER NEW SERVICEABLE REPLACE
 →FUEL LINE NEW SERVICEABLE REPLACE

6) Electric Starter

Yes No

7) Radiator

		Yes	No
→CLEAN	DIRTY	CORRODED	
→DISCOLORED ANTIFREEZE		YES	NO
→RADIATOR HOSES	NEW	SERVICEABLE	REPLACE

8) Muffler Assembly

→EXHAUST SPRINGS (cracked, worn, rusted)	NEW	SERVICEABLE	REPLACE
→MUFFLER (cracked, rusted)	NEW	SERVICEABLE	REPLACE

9) Propeller

→MANUFACTURER: _____

→TYPE: WOODEN	COMPOSITE	METAL		
→PITCH: FIXED	GROUND ADJUSTABLE			
→BLADES: 1	2	3	4	5
→CONDITION (chipped, cracked, etc)	NEW	SERVICEABLE	REPLACE	
→BALANCER		YES	NO	

D. INSTRUMENTS/ELECTRICAL

→EXHAUST GAS TEMP GAUGE	SINGLE	DUAL	YES	NO
→CYLINDER HEAD TEMP GAUGE	SINGLE	DUAL	YES	NO
→ALTIMETER :	NON-SENSITIVE	SENSITIVE	YES	NO
→COMPASS			YES	NO
→TACHOMETER			YES	NO
→SLIP INDICATOR			YES	NO
→HOUR METER			YES	NO
→AIRSPEED	TYPE: _____		YES	NO
→FUEL GAUGE	TYPE: CAPACITOR	FLOAT	YES	NO
→AUXILIARY POWER SUPPLY			YES	NO
→STROBE			YES	NO
	SINGLE	MULTI	Location _____	
→ANTENNA(S)	RADIO	NAVIGATION	YES	NO
→OTHER AVIONICS	_____			
→WIRES/CONNECTIONS		NEW	SERVICEABLE	REPLACE
→BATTERY	PURCHASE DATE: _____		YES	NO

