

ULHRA ANNUAL INSPECTION FORM

2011 Racing Season

Name/Number: _____

UL / G: _____ UL Engine Option _____

Date: _____

HULL

1. DECK

- A. Check for looseness from frames
- B. Check for loose fiberglass
- C. Check for cracks
- D. Check for loose trim

2. BOTTOM

- A. Check for loose fasteners
- B. Check for exposed seams
- C. Check doublers
- D. Check for corrosion
- E. Check location and type of drains

3. NON TRIPS

- A. Check fasteners
- B. Check for loose fiberglass
- C. Check for tightness of seams

4. RUNNERS

- A. Check fasteners
- B. Check condition of aluminum/magnesium
- C. Check for tightness of seams
- D. Check for loose fiberglass
- E. Check for structural integrity of wood

5. FRAMES

- A. Check for integrity of all glue joints
- B. Check fasteners
- C. Check for cracks

TAIL ASSEMBLY

1. DECK MOUNTS (UPRIGHT ATTACHMENT POINTS)

- A. Visually check for cracks
- B. Check fasteners for tightness
- C. Check all glue joints

COCKPIT

1. MAIN STRUCTURE

- A. Check main structure & roll cage
- B. Check for loose upholstery, exposed areas that may contact drivers head.
- C. Check headrest
- D. Check seat adequately attached to boat
- E. Check for adequate leg clearance (e.g. can driver pull knees up to chest with steering wheel removed.)
- F. Check seal/release of bottom rescue hatch
- G. Check for Plexiglass window in hatch, if installed.
- H. Check for cockpit sealed from engine compartment
- I. Check air bottles inspection, location & mounting
- J. Check for installation of radio and current license
- K. Check critical information labeling on bottom of cockpit

2. CANOPY

- A. Check for securely fastened
- B. Check for cracks or breaks

- C. Check for opening mechanism, hinge, lift handle, and latch _____
- D. Check driver's head clearance _____
- 3. UPHOLSTERY/PADDING
 - A. Is upholstery securely attached _____
 - B. Check for padding covering sharp edges/protrusions _____
- 4. STEERING WHEEL
 - A. Check for rust _____
 - B. Check for loose cover _____
 - C. Check for sharp edges _____
 - D. Check for proper attachment - check splines/taper, keyway, key attaching bolts, lock-tited bolts, collar release mechanism _____
- 5. FIRE EXTINGUISHERS
 - A. Check for handles accessible from inside and outside of cockpit, _____
 - B. Check for bottles securely mounted _____
 - C. Check for cables Pull free and operable, (No Electric. recommended) _____
 - D. Check for bottle weights _____
 - E. Check cockpit system if used (Halon 1211 not acceptable in cockpit) _____
- 6. THROTTLE
 - A. Check for secure attachment _____
 - B. Check for smooth and free pedal/cable action _____
 - C. Check that spring returns throttle to off position (a minimum of 2 springs required: 1 on pedal, and 1 on carburetor or fuel injection) _____
 - D. Check for no toe straps/coverings on pedals _____
- 7. DASHBOARD
 - A. Check adequate drives leg clearance _____
 - B. Padding on underside of dash _____
 - C. Check for secure attachment _____
 - D. Check for secure sub structure _____
- 8. SWITCHES
 - A. Check for free action _____
 - B. Check for secure attachment _____
- 9. WIRING
 - A. Check for corrosion _____
 - B. Check for tight wire lugs _____
 - C. Check for chafed or cut wires _____
 - D. Check for wire bundles tied off _____
- 10. DRIVER RESTRAINT SYSTEM
 - A. Check Belt straps and latch mechanism _____
 - B. Check straps for wear or fraying and date stamped _____
 - C. Check fever latch for rust, smooth operation _____
 - D. Check for adequate attachment to hull _____

ENGINE COMPARTMENT

- 1. WIRING
 - A. Check for corrosion/damage _____
 - B. Check for tight wire lugs _____
 - C. Check for chafed or cut wires _____
 - D. Check for wire bundles tied off _____
- 2. PLUMBING
 - A. Check for frayed hoses _____
 - B. Check for corrosion on ends (pull test) _____
 - C. Check for loose fittings and ends _____
 - D. Check for hose bundles tied off _____
- 3. ENGINE STRINGER/INTERNAL STRUCTURE
 - A. Check for secure engine & gearbox attachments, wear or elongating of bolt holes _____
 - B. Check for internal structural damage due to heat, oil, impact _____
- 4. COWLING
 - A. Check attachment for removable cowling _____
 - B. Check for cracks and breaks in glass _____
 - C. Check for strobe light installation _____

STEERING SYSTEM

1. RUDDER BRACKET

- A. Check bracket -- magnaflux, or zyglo recommended _____
- B. Check bolt holes for elongation _____
- C. Check bushings for clearance and freedom of movement _____

2. RUDDER BRACKET SUPPORT STRUCTURE

- A. Check for transom well attached to stringers, air traps, bottom _____
- B. Check inner structure ties together the transom, bottom, stringers _____
- C. Check all glue joints intact _____

3. RUDDER

- A. Check rudder has been removed from boat _____
- B. Check rudder -- magnafluxed or zyglo recommended _____
- C. Check for shot peening (recommended) _____
- D. Check retaining nut or cap. Check for new bearhug nut and lock ring. Check all bolts safety wired _____
- E. Check key way and key fit _____
- F. Check fittings and tubes for cracks _____
- G. Check hoses and fittings for corrosion and fraying _____

4. PITMAN ARM

- A. Check -magnaflux or zyglo recommended _____
- B. Check key way and key for fit _____
- C. Check bore for fit on rudder _____
- D. Check/inspect threads _____

5. ROD ENDS

- A. Check -- zyglo recommended (or new) _____
- B. Check for loose ball _____
- C. Check for retainer washer under bolt head _____
- D. Check for NO zirk fittings in rod ends (zirk fittings not recommended) _____
- E. Check nuts and bolts cotter keyed, or threaded into push rod with jam nut _____
- F. Check thread engagement minimum (1-1/2 X thread diameter) _____

6. PUSH PULL RODS

- A. Check for rust inside and outside of tube _____
- B. Check threads for fit and rust _____
- C. Check - magnafluxed or zyglo'd recommended _____

7. CABLE QUADRANT/SPROCKET (CABLE STEERING)

- A. Check - magnafluxed or zyglo'd RECOMMENDED _____
- B. Check bearings/bushings for free play and wear _____
- C. Check push-pull rod bolt hole for elongation and wear _____
- D. Check cable attachments _____

8. CABLES

- A. Check minimum cable type (aircraft type stainless) _____
- B. Check for fraying, kinks, clearances in hull holes _____
- C. Check ends - swages and clamps _____
- D. Check/inspect ALL pulleys _____

9. CABLE PULLEYS

- A. Check for excessive wear, cracks, corrosion _____
- B. Check bearings _____
- C. Check fairleads and cable guides _____
- D. Check mounting brackets _____

10. CABLE ADJUSTERS

- A. Check for safety wire per FAA specs _____
- B. Check for clearances where pass through frames/stringers _____

11. SKID FIN BRACKET

- A. Check -- magnaflux or zyglo recommended _____
- B. Check bolt holes for elongation, stress cracks _____

12. SKID FIN BRACKET SUPPORT STRUCTURE

- A. Check for inspection deck hatch above internal support structure. _____
- B. Check for internal structure attached through to engine stringers. _____
- C. Check all glue joints intact _____
- D. Check for inserts at all fasteners (honeycomb boats) _____

13. SKID FIN

- A. Check fin has been removed from boat _____
- B. Check skid fins -- Recommended Magnaflux, or zyglol _____
- C. Check tie rod attach points for rust, cracks, etc. _____
- D. Check tie rods for rust and cracks, recommended two (2) rods minimum. magnafluxed or zyglol'd recommended _____
- E. Check tie rod ends for rust, loose ball- magnaflux, zyglol or new Recommended _____

LIFTING SLING

1. TEST/CERTIFICATION

- A. Check/Inspect components for rust, wear, cracks, nylon for wear, fraying. etc; _____
- B. Check/Verify Date of Mfg, rating of each leg, collector ring to 4 times boat weight _____

HEAD AND NECK RESTRAINT

1. INSPECTION/CONDITION

- A. Check for approved type, general condition _____

HELMET/AIR MASK

- A. Check certification, manufacturer _____
- B. Check air mask, straps, attachment clips _____
- C. Check air hose, fittings, and compliance with safety rules _____

TRAILER

- A. Check hitch, check for cracks in frame, brakes, lights, wheel bearings, etc. _____

Crew Chief _____

Date _____