AeroDynamic Aviation®

Before Starting Engine

- 1) Preflight complete, documents on board, headset on, pax briefing
- 2) Seat belts ON & ADJUSTED
- 3) Fuel valve ON
- 4) Brakes TEST & SET
- 5) Radios and electrical equipment OFF

Decathlon 8KCAB CHECKLIST (Feb 2023)

6) Door - CLOSED & LATCHED

Starting the Engine

- 1) Throttle Open 1/4 inch
- Alternate air COLD
- 3) Master switch & strobe lights ON
- 4) Engine Monitor (CGR) push "E" button to clear blue popup

Cold Start Priming Sequence (oil temp <100°F):

Mixture RICH, fuel pump ON for 2 seconds, then fuel pump OFF

Warm Engine Start (oil temp >100°F): Do not prime, leave mixture at idle cutoff

- 5) Ignition switches L & R ON
- 6) Control Stick FULL AFT ("stick coming back")
- 7) Propeller area "CLEAR" and visually clear all around
- 8) Starter button ENGAGE (max. 10 sec.), release after engine fires
- 9) Mixture RICH before engine quits (warm engine start only)
- 10) Throttle Set 800 to 1000 RPM

After Start Don't block up the ramp! Look around and move if people are waiting.

- 1) Oil pressure CHECK GREEN within 30 seconds or shut down engine
- 2) Ammeter & volts CHECK (volts on CGR page 2)
- 3) Fuel onboard CGR page 3, enter total fuel measured
- 4) Mixture LEAN almost to idle cutoff (observe slight rpm rise)
- 5) Transponder ALT & 1200 *Note: No ADS-B
- 6) ATIS (125.20) and RHV Ground (121.65) CHECK & CALL for taxi
- 7) Taxi briefing, then brake check COMPLETE

Run-up

- 1) Tailwheel straight, brakes held tight
- 2) Flight Controls FREE & CORRECT (full box, stick & rudder deflections)
- 3) Trim SET FOR TAKEOFF (stick back, trim flush with elevator)
- 4) Instruments CHECK & SET (altimeter near field elevation)
- 5) Fuel Check quantity, fuel valve ON, fuel pump OFF, mixture RICH
- 6) Door & window CLOSED & LATCHED
- 7) Once oil temperature > 90°F: Control stick FULL AFT & Throttle 1800 RPM
- Ignition Check L, then R with <175 RPM max drop, and BOTH ON
- Alternate air Check operation (HOT, then back to COLD)
- Prop CYCLE 3 times (max. 300 RPM drop)
- Engine instruments & ammeter CHECK
- Throttle to Idle (600-900 RPM), then 1000 RPM
- 8) Transponder & radio ALT with squawk code & RHV TWR 119.80
- 9) Takeoff briefing COMPLETE

Before Take-off

- 1) Lights AS NEEDED
- 2) Fuel Check quantity, fuel valve ON, mixture RICH (or set for DA)
- 3) Alt air COLD
- 4) Prop FULL FORWARD
- 5) Trim SET FOR TAKEOFF
- 6) Normal takeoff flow –heels on the floor, feet off the brakes, throttle smoothly to full forward, then stick forward to takeoff position (3/4 forward)
- 7) Check engine instruments & lift off at V_R 60 MPH

Enroute Climb (at 1000' AGL and clear of obstacles)

- 1) Climb power Throttle set 25" MP, then prop set 2500 RPM
- 2) Cruise climb 80 MPH
- 3) Engine gauges Monitor temps (max EGT 1420°, max CHT 400°)

<u>Cruise</u> <u>Acro</u>

- Power Set throttle < 23" MP & prop set 2300 RPM (Set 25" & 2500)
- 2) Mixture Lean for altitude

(Lean only slightly)

3) Engine gauges – Monitor temps (max EGT 1420°, max CHT 400°)

Descent/Before Landing

- 1) Cooldown Set throttle 21" MP & prop 2300 RPM, then reduce 1" MP/min
- 2) Fuel CHECK quantity, fuel valve ON, mixture enrichen during descent
- 3) Lights AS NEEDED
- 4) Short final Mixture RICH, Prop FULL FORWARD, Alt air COLD
- 5) Airspeed 70-75 MPH for 3-point landing and 80 MPH for wheel landing

After Landing

- 1) Mixture LEAN for taxi
- 2) Trim SET FOR TAKEOFF
- 3) Lights AS NEEDED
- 4) Transponder ALT & 1200
- 5) Radio CALL Ground 121.65 for taxi

Shutdown

- 1) Radio & electrical switches OFF
- 2) Throttle 1000 RPM
- 3) Mixture LEAN all the way out
- 4) Master switch Record Tach time (CGR pg. 2), then OFF
- 5) Ignition switches OFF

Securing Aircraft (Double check all electrical switches and Master are OFF)

- Tailwheel straight & locked, wheels chocked, wings & tail tied down
- 2) Controls Secure the lap belt around front seat control stick
- 3) Sunshades Installed (silver side out)
- 4) Clean Remove all items and trash
- 5) Record Hobbs & Tach in aircraft binder