

Super Decathlon C-GKXD Checklist

STARTING

1. Airplane Pre-flight Inspection – COMPLETE.
2. Secure pitot & fuel vent covers in doc bag.
3. Cabin Door – SECURE, CLIPPED.
4. Seats, Belts and Shoulder Harnesses – SECURED.
5. Parking Brake – OFF.
6. Fuel Shut-Off Valve – ON.
7. Propeller Control – IN (Fine Pitch)
8. Alternate Air – COLD.
9. Throttle – ½ to 1 inch OPEN.
10. Electrical and Radio Switches – OFF.
11. Record Hobbs & start time.
12. Master Switch – ON.
13. Mixture - RICH, Prime with electric pump.
 - If the engine is warm, prime not required.
 - Avoid over-priming.
14. Electric pump - OFF.
15. Mixture – IDLE CUT-OFF.
16. Magneto switches – BOTH ON.
17. Brakes – SET.
18. Propeller and blast area - CLEAR.
19. Starter – ENGAGE, release after engine fires.
20. Mixture – FULL RICH after engine fires.
21. Throttle – 1000 to 1200 RPM.
22. Oil pressure – CHECK, pressure within 30 seconds.
23. Electrical switches, avionics – ON, SET.
24. Transponder – STBY.
25. Radio – ON, CHECK.
26. Lean mixture for taxi
27. Toe Brakes – release, TEST.

RUNUP

1. Into wind, Elevator BACK
2. Toe Brakes – SET.
3. Master Switch – ON.
4. Flight Instruments, Radio – SET.
5. Oil temp, pressure - GREEN.
6. Mixture – FULL RICH (or as required).
7. Engine Run-up – 1800 RPM.
 - a. Magnetos – CHECK.
 - b. Propeller – CYCLE ONCE.
 - c. Alternate Air – CHECK operation.
 - d. Engine Instruments – GREEN.
 - e. Throttle 1000 RPM.

BEFORE TAKE-OFF

1. Flight Controls - CORRECT.
2. Elevator Trim – SET take-off position.
3. Cabin Door and Window – CLOSED, LATCHED.
4. Seat Belts/Shoulder Harness – SECURE.
5. Fuel, Electric Fuel Pump – ON.
6. Transponder - ALT
7. Pre-takeoff briefing.
8. Record take-off time.

Vx 58 MPH, Vy 80 MPH IAS

Best Glide 75 MPH IAS

Manoeuvring Va (1950 lbs) 107 MPH IAS

Va (1800 lbs) 132 MPH IAS

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TAKE-OFF – NORMAL

1. Mixture – FULL RICH (or as required).
2. Prop – FINE PITCH (IN FULL).
3. Throttle – SMOOTHLY APPLY FULL THROTTLE.
4. Engine gauges CHECK.
5. Airspeed CHECK.
6. Attitude – SMOOTHLY RAISE TAIL.
7. Lift off - 60 MPH.
8. Climb 75 – 80 MPH

TAKE-OFF – SHORT/OBSTACLE

Normal procedure with following exceptions:

1. Accelerate in 3-point (tail low) attitude.
2. Lift off 58 MPH.
3. Maintain 58 MPH IAS until obstacle cleared.

TAKE-OFF – SOFT

Normal procedure with following exceptions:

1. Attitude tail low but clear of ground.
2. Lift off as soon as possible.
3. LEVEL OFF to obtain safe airspeed before climb.

CLIMB

1. Throttle - FULL OPEN.
2. Airspeed - 75 to 80 MPH.
3. Propeller – Noise – 2500 RPM above 500' AGL.
4. Electric Fuel Pump OFF at safe altitude.
5. Mixture – lean only as required.

CRUISE

1. LEAN when below 75% power.

LANDING – NORMAL

1. Seat and Shoulder Harness – FASTENED.
2. Brakes – CHECK FIRM (Park Brake – OFF).
3. Mixture – RICH.
4. Fuel, Electric Fuel Pump – ON.
5. Approach Airspeed – 75 to 80 MPH.
6. Propeller - FULL INCREASE.
7. **For 3-point** – power idle, flare, keep stick back.
8. **For wheel landing** - 9-1200 RPM as required.
9. After touchdown POWER OFF, brake as required

AFTER LANDING

1. Electric Fuel Pump & Transponder OFF.
2. ELT Check, record landing time.

SHUTDOWN & SECURE

1. Brakes – SET.
3. Lights, Electrical Equipment, Avionics – OFF.
4. Throttle Idle, Dead Mag CHECK.
5. 1000 RPM, Mixture – IDLE CUT-OFF.
6. After prop stops - Magnetos/Master Switch – OFF.
7. Fuel – OFF.
8. Record Hobbs time.
9. Secure FORWARD control stick back with seat belts. Attach rear belts. Clean interior.
10. Replace tie downs, pitot and fuel vent covers.