



SUPER DECATHLON

8KCAB

PILOT'S CHECKLIST

2024

Speeds (MPH)

Vr.....60
Vx58
Vy80
Vs.....54
Va (Norm).....121
Va (Aero).....132
Vno.....160
Vne200

INITIAL

Airworthy, Doc.....CHECK
Weather.....CHECK
Weight & Balance.....CHECK
Charts and PlatesCHECK
Perf & D. AltCHECK
Baggage.....SECURE

Pre-Flight-Int.

Brake.....SET
Fuel Gauges.....CHECK
Elec Switches.....OFF
Mixture.....CUT OFF
Magneto..... OFF
Master.....ON
Lights Int. & Ext.....ON
Stall HornON
Master..... OFF
Fuel Shut offON
Flt ControlsTRIM
Inspect for Loose Items.....CHECK

Pre-Flight-Ext.

Wing Root.....CHECK
Ailerons.....CHECK
Wing Tips/Lights.....CHECK
Wings/ Struts/ Fuel CapCHECK
Tires/BrakesCHECK
Oil Quantity/LeaksCHECK
Cowl secure/ Air filterCHECK
Prop & SpinnerCHECK
Intakes/Nose LightCHECK
Pitot Head/Static Port.....CHECK
Antennas.....CHECK
Tiedowns/chock.....CHECK
Empennage/CablesCHECK
Braces.....CHECK
Tailwheel/tire/springsCHECK
Fuel Sump (4 Places).....CHECK

ENGINE FIRE DURING START

Starter..... CRANK
Mixture.....CUT-OFF
Throttle.....OPEN
Fuel Valve.....OFF

ABANDON IF FIRE CONTINUES

BEFORE START

Seat Belts, Seats..... CHECK
Fuel Shut off.....ON
Brakes.....SET
AVIONICS.....OFF
Circuit BreakersIN
Alternate Air.....OFF
ELT.....ARMED
Passenger Brief.....COMPLETE

START

Door.....SECURE
Prop.....FULL INCREASE
Master.....ON
Fuel level in EFIS.....ADJUST
PRIME ENGINE
Mixture.....RICH
Throttle.....1/2"
***Electric Fuel Pump ON until Fuel
pressure, then OFF***
Mixture.....IDLE CUTOFF
Throttle.....1/2" to 1" OPEN
Magnetos.....ON
Prop Area.....CLEAR
Starter.....ENGAGE
Mixture.....RICH AS IT FIRES
Throttle.....1000 - 1200 RPM Oil
Pressure.....CHECK

FLOODED START

Electric Fuel Pump.....OFF
Mixture.....IDLE CUTOFF
Throttle.....OPEN FULL
Magnetos.....OFF
Prop Area.....CLEAR
Starter.....Engage for
several rotations-***Repeat normal
start using no prime***

AFTER START

Strobes.....OFF
Nav Lights.....ON
(Night Only)
Mixture.....FULL RICH
for taxi
Electric Fuel Pump.....OFF
Avionics Master.....ON
Radio.....ON AND SET
Flight Instruments.....SET
Dispatch.....RAMP OUT

TAXI

Transponder.....ALT
Brakes.....RELEASE
Check Instruments.....CHECK
Wind Conditions.....CHECK

RUN UP

Brakes.....SET
Trim-.....SET FOR TAKEOFF
Master.....ON
Fuel Shut off.....ON
Mixture.....RICH
Engine Gauges.....CHECK
Stick.....Full Aft
Throttle.....1800 RPM
Magnetos.....CHECK
Prop.....EXERCISE
Alternate Air.....CHECK
Throttle.....IDLE CHECK
THEN 1000 RPM

BEFORE TAKEOFF

Belts/Seats.....CHECK
Instruments.....SET
Mixture.....SET
Controls.....FREE
Engine Gauges.....CHECK
Crew Takeoff Brief.....CHECK
Electric Fuel Pump.....ON
Landing Light.....ON
Strobes.....ON
Door & Window.....CHECK
Brake.....RELEASE

NORMAL TAKE OFF

Throttle.....FULL
Engine Instruments.....CHECK
TAIL UP TO LEVEL ATTITUDE
Lift Off.....60
Climb-out.....90

DECENT

Throttle.....REDUCE AS DESIRED
Mixture.....RICH
Airspeed.....AS DESIRED

EMERGENCY PROCEDURES

ENGINE FIRE DURING START

Starter..... CRANK
Mixture.....CUT-OFF
Throttle.....OPEN
Fuel Valve.....OFF

ABANDON IF FIRE CONTINUES

FIRE IN FLIGHT

CHECK SOURCE.....

SMOKE IN CABIN

Master switch.....OFF
Lights.....OFF
Radio/Transponder.....OFF
Vents/Window.....OPEN

LAND AS SOON AS POSSIBLE

ENGINE FIRE IN FLIGHT

Mixture.....CUT OFF
Fuel Valve.....OFF
Cabin Heat.....OFF
Magnetos.....OFF
Electrical.....OFF

PROCEED WITH FORCED LANDING

ENGINE FAILURE DURING TAKEOFF

Throttle.....CLOSED
Brakes.....MAXIMUM

ENGINE FAILURE AFTER TAKEOFF

Airspeed.....65
Mixture.....RICH
Fuel Valve.....ON
Magnetos.....ON

***If no restart: Use Forced Landing Procedures
Make Shallow turns to avoid obstacles***

SHORT FIELD TAKE OFF

Throttle.....FULL
TAIL UP TO LEVEL ATTITUDE
Lift Off.....60
Climb-out.....80

BEFORE LANDING

Landing Light.....ON
Elec Fuel Pump.....STAYS OFF
Prop..... 2500 - 2600 RPM
Mixture.....RICH
Seats & Belts.....CHECK
Brakes.....CHECK FIRM

Use 3-point full stall landing for short, soft, or rough fields.

Use Wheel landing for cross wind or gusty conditions.

SOFT FIELD TAKE OFF

Elevator.....TAIL LOW
Lift Off.....Assist with elev.
Accelerate in Ground Effect
Climb-out.....80

CLIMB

Airspeed.....90
Throttle......25 in.
Prop.....2500 RPM
Landing Light.....OFF
Elec Fuel Pump.....OFF
Mixture.....AS REQUIRED

AFTER LANDING

Strobes.....OFF
Landing Light.....OFF (Day)
Ailerons.....SET for wind

CRUISE

Power.....SET
Trim.....SET
Mixture.....LEAN
only when power below 75% and above 5,000'
Engine Gauges.....CHECK

SECURE AIRCRAFT

Avionics Master.....OFF
Throttle.....1000 RPM
Mixture.....CUT OFF
Magnetos.....OFF
after prop stops
Strobes.....OFF
Nav Lights.....OFF
Landing Light.....OFF
Master Switch.....OFF
Brake.....RELEASE
Tie downs & Chocks.....
Trash.....REMOVE

Conduct Post Flight Inspection

Entry Speeds (MPH)

Inside Loop.....140
Immelmann.....145
Hammerhead.....140
Barrel/ Slow Roll.....120-130
Spin.....Slow deceleration

ENGINE FAILURE DURING FLIGHT

Airspeed.....80
Elec Fuel Pump.....ON
Alt Air.....OPEN
Mixture.....RICH
Fuel Valve.....ON
Magneto Switches.....ON
Prop.....FULL INCREASE

If power not restored prepare for power off landing

DITCHING

Cabin Door.....Jettison

Land into the wind Contact water with a nose high attitude

**DO NOT STALL prior to touchdown
Exit Immediately**

FORCED LANDING

Ldg Field/Best Glide.....75
Belts/Seats.....CHECK
Mixture.....CUT OFF
Fuel Valve.....OFF
Master Switch.....ON
Radio.....MAYDAY 121.5 Mhz
Radio.....OFF
Transponder.....OFF
Lights.....OFF
Magnetos.....OFF
Master Switch.....OFF

SPIN RECOVERY

Throttle.....IDLE
Rudder.....FULL OPPOSITE
Elevator.....SLIGHTLY FORWARD
Ailerons.....NEUTRAL
Rudder.....Neutralize
after rotation stops, neutralize the rudder and then smoothly recover from the dive

OIL PRESSURE LOSS

**Land as soon as practical
Prepare for Power Off Landing**

HIGH OIL TEMPERATURE

**Land as soon as practical
Prepare for Power Off Landing**

ELECTRICAL FAILURE

Master Switch.....CYCLE TO RESET
OVER VOLTAGE RELAY

If Power not restored:
Elec. Load.....REDUCE

**LAND AS SOON AS PRACTICAL PREPARE FOR
TOTAL ELECTRICAL FAILURE**