**C-152 CHECKLIST**

**VH-RNO**

**8KCAB DECATHALON**

**VH-ICJ**

**CHECKLIST**



**8KCAB DECATHALON VH-ICJ AIRCRAFT SPECIFICATIONS**

Airspeeds for Normal Operations

Take off & Landing Speeds

|  |  |  |  |
| --- | --- | --- | --- |
| **Rotate Speed (Vr)** | 60 kts | **Normal Approach** | 70 kts |
| **Take Off Safety Speed** | 58 kts | **Shortfield Approach** | 65 kts |
| **Best Angle (Vx)** | 75 kts | **Best Rate (Vy)** | 80 kts |

General Speeds

|  |  |  |  |
| --- | --- | --- | --- |
| **Never Exceed (Vne)** | 156 kts | **TAS** | 100 kts |
| **Max Normal Operating (Vno)** | 139 kts | **Level Stall Speed (Vs)** | 42 kts |
| **Turbulence Penetration Speed (Vturb)** | 120 kts | **Max Crosswind Take off** | 17 kts |
| **Best Glide Speed** | 70kts | **Max Crosswind Landing** | 17 kts |

Fuel & Oil

|  |  |  |  |
| --- | --- | --- | --- |
| **Fuel Type** | 100LL or 100/130 Avgas | **Engine Type and Horsepower** | Avco Lycoming 320  160BHP @ 2700rpm |
| **Maximum Fuel** | 151 litres | **Oil Grade** | Aero W100 |
| **Max Useable Fuel** | 140 litres | **Maximum Oil** | 8 Quarts |
| **Fuel Consumption** | 36 Litres/Hour | **Minimum Oil** | 6 Quarts |

**\*\*Note: 100LL Avgas is BLUE in colour and 100/130Avgas is GREEN\*\***

Performance

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic Empty Weight** | 607Kg | **Maximum Power** | 2700 RPM |
| **Max Take off Weight** | 816 kg | **Normal Cruise Power** | 2400 |
| **Max Landing Weight** | 816 kg | **Max payload with Full Fuel** | 100 kg |

\*\* Note: With Full tanks VH-ICJ can easily be overloaded! \*\*

**PREFLIGHT**

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**COCKPIT**

Control Locks Remove

Ignition Off, Key Removed

Master Switch On

Stall Horn Check

Lights and Strobes On and Check

Master Switch Off

Fuel Check Quantity

Dip and Drain

Flight Record Sheet Record Fuel and VDO

**EXTERIOR**

1. ***Empennage***

***Left Fuselage***

Skin Check surface condition

***Tail***

Left Stabilizer Check Condition and security

Left Elevator Check Condition

Full Free movement

Check linkages

Right Elevator Check Condition

Full Free movement

Check linkages

Trim Tab Check condition and linkages

Right Stabilizer Check condition and security

Tail Tie Down Remove

***Right Fuselage***

Skin Check surface condition

1. ***Right Wing***

Flap Check surface condition

Check linkages and runners

Aileron Check surface condition

Linkages and hinges secure

Balance weights secure

Full free movement

Wing Tip Check condition and Security

Wing Tie Down Remove

Lower Wing Surface Check condition

Wing Leading Edge Check for Dents along entire length

1. ***Landing Gear***

Tyre Check tread and general condition

Check correct inflation

Hydraulic Line Check for leaks

Disc Brake Check condition

Strut and Fairing Check condition

1. ***Front Fuselage and Engine***

Windscreen Condition and cleanliness

Cowling condition and security

Oil Quantity Check

Propeller Look for chips and cracks (esp. leading edge)

Spinner condition and security

Intakes clear

Landing Light unbroken

Nose Strut Check oleo extension

Check linkage, nuts and split pins secure

No leakage from shimmy damper or oleo

Nose Wheel Check tread and general condition

Check correct inflation

Stand Back and Check Fuel Caps ON

Tie downs OFF

Start Up Area CLEAR, NO LOOSE STONES

Prop Wash Area CLEAR

General condition of aircraft GOOD

Static Vent Clear

1. ***Landing Gear***

Tyre Check tread and general condition

Check correct inflation

Hydraulic Line Check for leaks

Disc Brake Check condition

Strut and Fairing Check condition

1. ***Left Wing***

Wing Leading Edge Check for Dents along entire length

Check Pitot tube Clear

Check Stall Warning horn

Check fuel Vent Clear

Wing Tip Check condition and Security

Wing Tie Down Remove

Lower Wing Surface Check condition

Aileron Check surface condition

Linkages and hinges secure

Balance weights secure

Full free movement

Flap Check surface condition

Check linkages and runners

Wing Strut Check condition and security

**Pre Start**

Pre Flight Inspection Complete

Position Clear

Maintenance Release Check

Flight Manual On-board

Pax Brief

* Entry and exit points/emergency exits
* Seat adjustment
* Seatbelt usage
* Stowage of loose items
* Ventilation outlets and controls
* Remain clear of flight controls
* Emergency Equipment and how to use
* No Smoking policy
* Flight details

Security Check

Seats Adjusted and Secured

Hatches & Harness Secure

Fuel Both and sufficient

Circuit breakers set

Mixture Rich

Throttle Open 10mm

Friction Nut Set

Carby Heat Cold/off

Switches and Avionics Off

Trims Set

Rotating Beacon On

Battery On

Oil Temp Check

Prime As Req’d

Nav Lights As Req’d

Brakes Test and Set

Clear Prop Start

**AFTER START**

**ROVER**

**R**evs Set 1000

**O**il Pressure Green within 30 seconds

**V**acuum Check

**E**lectrics Alternator On – Charging

**R**adio On & Check Frequency and Squelch

Transponder SBY …. Code set

Rotating Beacon…… On

Taxi/Landing Lights …As Req’d

**TAXI**

**BAG**

**B**rakes Test and check

**A**vionics Check and set

**G**yro’s Check

**PRE TAKEOFF – BRAKES ON**

**T**rim Check and Set

**M**ixture Rich

**P**rimer In and Locked

**F**uel On and sufficient

**I**nstruments Altimeter ………. Elevation/QNH set

Turn Co coordinator …….No Flags

Temps & Pressure …….. GREEN

**S**witches Test Idle

Set 1700RPM

Carby Heat Test

Magnetos

* Max Drop ……………. 125RPM
* Max Difference ……. 50 RPM
* Smooth Running

Engine Instruments

* Vacuum ……………………….. GREEN
* Temps and Pressures …….GREEN
* Ammeter ………………….POSITIVE CHARGE

Set 1000RPM

Circuit Breakers …………. In

**C**ontrols Full Free and correct

**H**atches and Harnesses Secure

**E**mergency Brief Complete

**D**eparture brief Complete

**LINING UP**

**LIGHTS, CAMERA, ACTION**

**Land Light & Strobes** ON

**Transponder** ON ‘ALTITUDE’

**DI & Compass** CHECK ALIGNED

**AFTER TAKEOFF/ GO AROUND**

**PUFSIT**

**P**ower Full

**U**ndercarriage Fixed

**F**laps Retract

**S**witches Landing Lights off

**I**nstruments Climb performance, Centreline tracking Check

**T**emps and Pressure Green

**MANOEUVRES**

**HASEL**

**H**eight Sufficient to safely complete all manoeuvres

**A**rea Suitable

**S**ecurity Cabin secure/seats/harnesses

**E**ngine Power and Mixture Checked

Engine T’s and P’s Green

**L**ookout Area Clear

**ENROUTE**

**CLEAROFFS**

**C**ompass & **C**ourse Align and Tracking

**L**og ETA’s

**E**ngine Lean and Green

**A**ltitude QNH set and correct

**R**adios Frequency set and correct

Navaids - Tuned

Identified

Tested

**O**rientation

**F**uel Log and contents

**F**orced Landing

**S**artime

**PRELANDING/DOWNWIND**

**BUMFISH**

**B**rakes Pressure and off

**U**ndercarriage Fixed

**M**ixture Rich

**F**uel On and sufficient

**I**nstruments Altitude

T’s and P’s Green

**S**witches Landing Lights on

**H**atches and Harness Secure

**FINAL**

**CPUFF**

**C**arby Ht Off

**P**itch Full Fine

**U**ndercarriage Fixed

**F**lap as req’d

**F**uel Sufficient for Go-Around

**AFTER LANDING**

Transponder SBY

Carby Heat Off

**SHUTDOWN**

Throttle Set 1000RPM

Avionics Radios and Navaids Off

Mixture Idle Cut off

Switches Off, except Rotating Beacon

Ignition Off and Keys out

Master Switch Off

***EMERGENCIES***

**POWER LOSS IN FLIGHT**

**FMCOST**

**F**uel On, Primer In and Locked

**M**ixture Rich

**C**arby Heat On

**O**il T’s and P’s Check

**S**witches Mag Check

**T**hrottle Cycle and set

**ENGINE FIRE ON GROUND**

Cranking Continue

**If Engine Starts:** 1700RPM for short time, shutdown and inspect for damage

**If Engine Fails to Start:**

Throttle Full Open

Mixture Idle cut off

Cranking Continue to attempt a start

Fire Extinguisher Ready

Fuel Off

Master Off

Ignition Off

Fire Extinguisher Use

Inspect for Damage

**ENGINE FIRE IN FLIGHT**

Mixture Idle cut off

Fuel Off

Master Off

Cabin Heat and air Off, except wing roots

AIRSPEED **100**kts – increase glide speed to extinguish fire

**EXECUTE FORCED LANDING**

**ELECTRICAL FIRE**

Alternator and Master Off

Switches All except ignition Off

Vents/Cabin air/Heat Off

If fire appears to be out:

Alternator and Master On

Circuit Breakers Check for faulty circuit... do not reset

Radio/Electrical Switches On one at a time with a delay after each until short circuit is localized

Vents/Cabin Air/Heat Open once fire is completely extinguished

**IF FIRE IS NOT EXTINGUISHED OPERATE FIRE EXTINGUISHER**

**LAND AS SOON AS POSSIBLE**

WARNING: CABIN MUST BE VENTILATED AFTER USING FIRE EXTINGUISHER

**ELECTRICAL POWER LOSS**

Alternator & Master Off

Switches All Off

Alternator On

Essential Equipment On

Land ` As soon as possible