



## Jabiru J170

# QUICK REFERENCE USERS GUIDE

## & CHECKLISTS

All Pilots of the Jabiru J170, need to familiarise themselves with the Full Aircraft Handling Notes for J170 aircraft as issued by Jabiru Aircraft.

**Refer to J170 POH Rev2**

[https://jabiru.net.au/wp-content/uploads/2018/05/JP-FM-13\\_J170-D\\_POH\\_Rev2.pdf](https://jabiru.net.au/wp-content/uploads/2018/05/JP-FM-13_J170-D_POH_Rev2.pdf)

This document is issued by Topfun Aviation as a quick reference guide only and Pilots must ensure they are conversant with the Jabiru J160 POH as may be updated from time to time by Jabiru aircraft.

## **SPECIFICATIONS**

### **POWER PLANT**

Type ..... Jabiru 2200  
Rated Horsepower.....85 HP at take off (max 5 minutes)  
Rated RPM.....3100 take off (max 5 minutes)  
Cruise .....2850 RPM

Note: The engine is air cooled.

**Time with CHT at between 180°C and 200°C is not to exceed 5 Minutes!**

### **PROPELLER**

2 Blade Jabiru Hoop Pine Propeller with PU lead edges

### **WEIGHT SPECIFICATIONS**

Max all up weight ..... 600 kg  
Empty weight (including unusable fuel, full oil, full coolant and two headsets) – approx. 317 kg  
Max useful load .....283 kg  
Minimum pilot weight..... 55 kg  
Max baggage ..... 36 kg immediately behind seats

**STRUCTURAL LIMITS**..... 4G positive/2G neg.

### **TYRES - PRESSURES AND SIZES**

Main wheels..... 6”  
Tyre Pressure.....25 PSI

### **FUEL**

Capacity: useable litres..... 135 litres useable  
Minimum fuel for take off ..... 15 litres per tank  
Octane Rating..... MOGAS (95 PULP) (100 LL Avgas in emergency only)

### **OIL**

Capacity ..... 2.5 litres  
Must indicate between MAX and MIN mark on the oil dip stick  
Grade ..... Aeroshell W100 or 15W 50 (Aeroshell 100 during break in period)

### **AIRSPEEDS**

V<sub>NE</sub>.....140 kts (Velocity **N**ever **E**xceed)  
V<sub>C</sub>.....112 kts (Velocity Cruise max)  
V<sub>A</sub>.....94 kts (Full or abrupt control inputs may over stress airframe)  
V<sub>FE</sub>.....84 Kts (Velocity **F**lap **E**xtension Max)  
V<sub>SO</sub>.....42 kts (Stall speed with full flaps)

**MAX DEMONSTRATED CROSSWIND**.....14 kts

#### **1. AIRSPEEDS**

Cruise Climb ..... 80 kts  
Best Angle of Climb ..... 68 kts  
Cruise..... 95 kts  
Endurance (2300 RPM) .....70kts  
Approach ..... 62 - 70 kts  
Best Glide Speed.....65 kts  
Recommended Glide Speed..... 65- 70 kts (for control)

#### **2. MISCELLANEOUS PERFORMANCE FIGURES**

Absolute ceiling..... 10,000 ft

**3. SAFETY TAKE OFF SPEED**.....60 kts

**4. FUEL CONSUMPTION** (for Flight Planning) 18 litres per hour at 75% power

**5. MANOEUVRES PERMITTED**

Operations shall be limited to the normal flying manoeuvres, but may include straight and steady stalls, incipient spins and turns in which the angle of bank to the horizontal is 60° or less. All aerobatic manoeuvres including full spins are prohibited.

**6. SMOKING**

Smoking is not permitted at any time

**7. TEMPERATURE LIMIT**

The maximum atmospheric temperature for operating this aircraft is **35° Celsius**

**8. MINIMUM FUEL FOR TAKE OFF**.....15 litres in each wing tank

**9. APPROVED OPERATIONS**..... .. Day VFR in VMC only

**This aircraft is not approved for aerobatic manoeuvres, or where the wing will exceed an angle of bank over 60 degrees.**

## Jabiru J170 CHECK LISTS

<b>PRE START</b>	Area Clear
Seat Belts	Both secure
DOORS	Closed and Locked
FUEL VALVE	ON
PARK BRAKE	ON
CIRCUIT BREAKERS	ALL IN
All Electric Switches	OFF
Throttles	CLOSED (IDLE)
Master	ON
Fuel Pump	ON "clicks" then Off
Carb Heat	OFF
Cabin Heat	OFF
Mag Switches - Both	ON
Throttle	HOLD CLOSED
If Cold Start	Choke On
Check Area	Area Clear
Clearance Call	"CLEAR PROP"
Starter Button	Engage
ENGINE STARTS	-----
OIL PRESSURE	Confirm Pressure
Avionics Switch	ON
Strobe Switch	ON

<b>Pre Take Off Check</b>	Prop Over Concrete Pad
Brakes	ON
CHT	IN Green Arc
Oil Pressure	IN Green Arc
Throttle	Set 1600 RPM
Mag Switches	Check L & R OK
Carb Heat	Check operation if req'd
Engine	Check Instruments
Volts gauge	14V - Charging
Throttle	Low Idle- keeps running
Throttle	Set 1050 RPM
Fuel Quantity	Sufficient
Altimeter	Set (YBHL- 940')
Carb Heat	Off
Doors	Closed & Locked
Seat Belts	Secure
Flaps	Set stage 1 if req'd
Flight Controls	Full Free & Correct
Fuel Pump	ON
Trim	Set for Take Off

<b>TAKE OFF</b>	
Slowly Increase Power	Full Power
Keep a/c straight	
Raise nose	
If Full Power not achieved	<b>ABORT Take Off</b>

<b>PRE LANDING</b>	<b>BUMFFHHI</b>
Brakes	OFF
Undercarriage	DOWN (fixed)
Mixture	RICH (automatic)
FUEL	Fuel Valve ON - Qty Sufficient
Fuel Pump	ON
Hatches	Closed and Locked
Harnesses	Seat Belts Secure
Ignition Mag switches	Check BOTH ON

<b>AFTER LANDING</b>	
Fuel Pump	OFF
Flaps	UP
TRIM	Neutral

<b>ENGINE SHUT DOWN</b>	
AIRCRAFT	FACING INTO WIND
Throttle	Idle (1050 RPM max)
Park Brakes	ON
Temps & Pressures	In the green - low
Fuel Pump	OFF
Avionics Switch	OFF
Strobe switch	OFF
Mag Switches - Both	Check L & R
Throttle	LOW IDLE (below 1000 RPM)
CDI's	Off Simultaneously
Master Switch	OFF

<b>EXTENDED PARKING</b>	
Fuel Valve	OFF
Flaps	UP
Controls	Secured with seat belts
Tie down	3 points
Master Key	Removed
Doors	Locked

# CIRCUIT ENTRY AT NON TOWERED AERODROMES

## Circuit Heights - AGL

Ultralights <55 KTS - 500'

Light A/C >55 - <120 KTS - 1000'

RPT >120 KTS - 1500'

