

# Robin R2120U Short Checklist Page 1/2

## Cabin

- canopy secure, clean
- controls unlocked, belts
- flight manual tech log, airworthiness cert, radio licence
- compass & card
- emergency equipment, ELT
- controls & trim free
- mags. Off, throttle closed
- fuel valve on
- master on, walk around, check lights & stall warning
- master off

## Empennage

- fuel quantity, endurance
- fuel cap locked
- fuel drain – clear, no water, no dirt
- left static vent clear
- horizontal stabiliser free movement, surface clean
- rudder movement, surface clean
- tail section screws & cables
- external power door closed

## Right Wing

- flap secure
- aileron free movement
- surfaces clean
- free of damage
- remove tie-downs, chocks
- main gear undamaged, tyre tread, brakes, oleo extension, spats secure

## Nose

- cowl flap, check oil >4qts
- cowl secure
- exhaust secure
- windscreen clean
- nose wheel undamaged, tyre tread, oleo 50-80mm, spats secure
- air intakes clear
- prop & spinner clean
- alternator belt tight

## Left Wing

- pitot tube clear
- main gear undamaged, tyre tread, brakes, oleo extension, spats secure
- surfaces clean
- free of damage
- remove tie-downs, chocks
- aileron free movement
- flap secure

## Passenger Brief

- Emergency equipment location & use : ELT, extinguisher, first aid, axe
- Outside : keep behind wings, clear of prop
- Cabin entry & exit
- Canopy emergency release
- Headset, use of radio push to talk
- Stowage pockets, airsick bags
- Seats, belts (always secure)
- Keep clear of controls – stick, rudder
- Lifejacket use if equipped
- Assist with traffic lookout
- Notify pilot of dizziness, nausea, toilet, etc.

## Engine Start

- parking brake set
- seat belts fastened
- check circuit breakers
- avionics off
- mixture full rich
- carb heat off
- throttle full movement, set 3/4" open
- prime as required
- master on
- fuel pump on, check pressure
- clear area
- start with mag switch
- throttle 1200 rpm
- oil pressure positive
- check instruments
- fuel pump off
- throttle <1000rpm, live mag check

## After Start

- avionics on
- lights on
- set & check radio
- transponder standby, check code
- release brake for taxi

## Run-Up

- parking brake set
- fuel pump on
- mixture full rich
- check Ts & Ps
- throttle 1800rpm
- vacuum/suction gauge
- carb heat check : min drop 20rpm, max 200rpm
- mag check : max drop 175 rpm, diff. 50rpm
- check other Ts & Ps
- throttle idle – 600-700rpm
- release brake & taxi to holding point

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## Take-off

Holding point checks:  
 Tmpffihctr  
 Line-up checks:  
 RTLWDR  
 Full throttle, keep straight  
 Rotate 55 kts  
 Best angle climb 65 kts  
 Clean-up – flaps, fuel pump  
 Best rate climb 75 kts

## Max Performance

### Take-off

Holding point checks  
 Tmpffihctr  
 Note +ve acceleration point  
 Note rotate point  
 Line-up checks  
 RTLWDR  
 Hold brakes  
 Throttle 2000rpm  
 Cycle Carb heat  
 Full throttle, min 2300rpm  
 Release brakes, keep straight  
 Begin Rotate 55kts  
 Best angle climb 60 kts  
 Clean-up – flaps, fuel pump  
 Best rate climb 75 kts

### Cruise, Climb

Cruise 2400-2450rpm  
 Approx 90 kts

## Approach, Landing

Downwind checks  
 BUMFHW  
 Carb. Heat On  
 Throttle 1800rpm  
 Check white arc  
 Flaps 10, lookout, turn base  
 Throttle as required  
 Speed 75 kts  
 Turn Final  
 Full flaps 35  
 Speed 65 kts  
 Short final : carb heat off

## Precision Landing

Downwind checks  
 BUMFHW  
 Pick touch-down point,  
 identify short finals area  
 Carb. Heat On  
 Throttle 1800rpm  
 Check white arc  
 Flaps 10, lookout, turn base  
 Throttle as required  
 Speed 75 kts  
 Turn Final  
 Full flaps 35°, 65 kts  
 Short final : carb heat off, 60 kts

## Speeds

Stall, full flap ( $V_{s0}$ )	48 kts
Stall, clean ( $V_{s1}$ )	57 kts
Take-off rotate	55 kts
Best angle climb	65 kts
Best rate climb	75 kts
Normal climb	80 kts
Normal Cruise ( $V_{no}$ )	95 kts
Best glide distance	75 kts
Approach	70 kts
Final	65 kts
Precision Landing	60 kts
Max flap ( $V_{re}$ )	97 kts
Max Manoev. ( $V_a$ )	129 kts
Never exceed ( $V_{ne}$ )	155 kts
Max crosswind	18 kts

## Transponder Codes

xxxx – Aircraft discreet code  
 yyyy – Flight plan assigned code  
 1400 – Local Circuit VFR  
 1200 – Local Area VFR  
 7500 – Unlawful interference  
 7600 – Radio failure  
 7700 – Emergency

## Local Frequencies

North Shore	118.0
Emergency	121.5
Kaipara/Parakai	119.1
Gulf/City	120.4
Whenuapai ATIS	128.3
Whenuapai TWR	134.5
Auckland ATIS	127.8
Auckland TWR	118.7

## Emergencies

Refer to Operating Handbook

### Engine fire at start

Starter : engage  
 Mixture : idle/cutoff  
 Throttle : full open  
 Fuel pump : off  
 Fuel selector : off

### Engine fire in flight

Increase airspeed  
 Fuel pump off  
 Fuel selector off  
 Throttle closed  
 Mixture idle/cutoff  
 Magnetos off  
 Land ASAP

### Smoke/Electrical fire

Master off  
 Electrical equipment off  
 Vents open  
 Cabin heat off  
 Land ASAP

### Low oil Pressure

Land ASAP  
 Prepare for engine failure

### High Oil Temperature

Mixture full rich  
 Land ASAP  
 Prepare for engine failure

### Low fuel pressure

Fuel pump on  
 Check fuel cut-off not pulled  
 Check fuel pressure  
 Prepare for engine failure

To be used in conjunction with aircraft operating handbook