

Alpha R2 I 60

Check Lists

Downloaded from www.andrewnicol.net/flying.html

Type: **Robbins 160**

Best Rate of Climb **78**

Best Rate (10° Flap) **75**

Normal Climb **80**

Best Glide **75 - 78**

TAS **110**

Vne **178.5**

Vno **127**

Va **127**

Vfe **97**

Demo X Wind **18**

Stall (No Flap) **59**

Stall (35° Flap) **48**

Passenger Brief

Prior to the flight I would like to point out some safety equipment on the aircraft.

Seatbelts

Canopy

Emergency

Demo / Emergency

Remain calm

Follow my Instruct

Activation

NO

Ask First

Bags

Hot / Cold

Unwell

Rudders/Control

ELT

Smoking

Cellphones

Comfort

Controls

Any Questions?

After Engine Start

RPM

Oil Pressure

Mag Check

Fuel Pump

1000

Rising

Left / Right

Off (Pressure >.5)

In Taxi

Throttle

Brakes

Turns

Closed

Check

Rudder, Turn Coord

Compass, DI

Engine Run-up

Park into Wind

Brakes

Area clear (Front and behind)

Oil Temp

Oil Pressure

ON

>30

Green Range

RPM

Suction

Oil/Temp

Alternator

Carb Heat

Mag Check

1800

Green

Green

Check

Cycle

<175 drop

<50 per side

RPM

Carb Heat

Idle

Cycle

Pre Checks

Throttle	Lock Firm (NA)
Trim	Set for TO
Mixture	Full Rich
Carb Heat	Cold
Prop Pitch	Full & Fine (NA)
Fuel	
Cutoff	Down and Locked
Selector	NA
Primer	NA
Fuel Pump	On (Chck Pressure)
Contents	Read Back
Flaps	10°
Master Switches	On
Ignition	Both
Instruments	
ASI	Serviceable
DI	Aligned
VSI	+/- 100
Radios	Freq Check
Transponder	Correct Code
Circuit Break	Check

Pto...

Hatches/Harness	Secure
Controls	Full & Free
Departure Brief	Local
Lookout Turn	Circuit Dir

Take Off Brief

Emergency B4 airborne

Throttle	Closed
Brakes Applied	
Avoid Obstacles	
Fuel	Off
Mixture	Cut off
Mags	Off

Engine Failure After Takeoff

Lower nose	Trim 75 kts
Carb Heat	Hot
Fuel Pump	On
Suitable Landing Location	

Other Emergency

Return to Airdrome for **FULLSTOP**

Line Up Checks

Windsock	Check
DI & Compass	Check RWY
Lights	On
Transponder	ON ALT
Carb Heat	Cycle
Ref Point	Select
Clearance	Provided
Brakes	Feet clear
RPM	Full Power

Rolling Checks

Suction	Green
T&Ps	Green
RPM	Green
IAS	Rising

Airbourne

Landing/Taxi Lights	Off
Fuel Pump	Off (Pressure >.5)
Flaps Up	>60kts
	>200AGL
	+ VE Climb

Downwind Checks

Brakes	Off / Pressure
Undercarriage	Down / Locked
Mixture	Full Rich
Prop Pitch	Full & Fine
Fuel	
Cutoff	Down and Locked
Selector	NA
Primer	NA
Fuel Pump	On (Pressure >.5)
Contents	Read Back
Hatches / Harness	Secure
Landing/Taxi Lights	On

Short Finals

Landing Clearance	Received
Windsock	Checked
Carb Heat	Cold

After Landing

Transponder	Standby
Flaps	Up
Fuel Pump	Off
Lights	ALL Off

Shut Down

Brakes	On
RPM	1000
Radio Check	121.50
Avionics	Off
Ignition	Check Off
Mixture	Cut Off
Throttle	Closed
Flight Time	Recorded
Controls	Locked
Aircraft	Secure

Terminate SAR TIME

Max Performance Take Off

Nominate	Take off point
Brakes	Full
RPM	Max and increasing
Brakes	Release
Airborne	55kts
Climb	75kts

Precision Landing

Nominate	Landing Point
	Decision Height
At Decision Height	
	On Speed
	On Centre Line
	On Approach

Reference Speeds

10° Flap	75kts
35° Flap	65kts
50ft/Threshold	62kts Powered
	(Stall * 1.3)

Manoeuvre Checks

- H** Height
- A** Airframe Configuration
- S** Security (Baggage, Hatches, Harness)
- E** Engine (T&Ps, Fuel Pump)
- L** Location (Built Up Area, Terrain)
- L** Look out turn (180°)

- H** Height
- E** Engine (T&Ps, Fuel Pump)
- L** Location (Built Up Area, Terrain)
- L** Look out turn (90°)

Low Flying Area

- HASELL** **Completed**
- Lights **On**
- Report Established **Est Time**
- Aircraft Config**
- IAS** **80kts**
- Flaps** **10°**

Coastal Reversing Turn

- 45° from coast
- Consider Wind
- Turn back onto Coast

Line Turn

- 45° Leeward of Line
- Turn into Wind

Precautionary Landing

- Wind Direction **Determined**
- Landing Area **Select**
- Size, Shape, Surrounds, Surface, Slope, Sun, Elevation
- Reference Point **Select**
- First Pass (upwind) **500 ft AGL**
- Descend Downwind
- Second Pass **200 ft AGL**
- Climb (upwind) **500 ft AGL**

Execute a precision Landing

- All Climbs **Straight & Level**
- All Turns **Power On**
- IAS **80 kts**

Stalls

- HASELL **Completed**
- Reference Point **Selected**
- Carb Heat **Hot**
- Altitude **Maintain**
- Carb Heat **Cold (at 60kts)**

Configuration

- Basic
- Power **Nil**
- Flap **Nil**

- Approach
- RPM **1500**
- Flap **10°**

- Wingdrop
- RPM **1500 – 1700**
- Flap **35°**

Forced Landings (No Power)

Carb Heat **Hot**
Fuel Pump **On**
IAS **Convert to height**
 Target 75kt glide
Landing Area **Select**
Size, Shape, Surrounds, Surface, Slope, Sun, Elevation
Transponder **7700**

FLY THE DESCENT

Trouble Checks

Fuel **Cut off, pump, contents**
Mixture **Through range**
Ignition **Start Start**
Throttle **Warm**

MayDay **PAI & POB**

PAX Brief Remain Calm, Nearest Help,
Sharp Objects, Glasses Headset

Downwind

Fuel Cutoff **Off**
Mixture **Cut Off**
Mags **Off**
Flaps **Down**
Master Switch **Off**