

Piper Archer

PA28 | 81

Check Lists

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Type: **Archer II**

Best Rate of Climb	76
Best Rate (10° Flap)	64
Normal Climb	80
Best Glide (Clean)	76
Best Glide (Flaps)	66
TAS	115
Vne	148
Vno	121
Va	108
Vfe	100
Demo X Wind	17
Stall (No Flap)	59
Stall (35° Flap)	43

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

Fuel Selector

1000

Rising

Left / Right

Off (Pressure >.5 < 8)

CHANGE

In Taxi

Throttle

Brakes

Turns

Closed

Check

Turn Coord

Compass, DI

Engine Run-up

Park into Wind

Brakes

Area clear (Front and behind)

Oil Temp

Oil Pressure

RPM

Suction

Oil Pressure

Alternator

Carb Heat

Mag Check

RPM

Carb Heat

ON

>25 (75F)

Green Range

2000

Green (5.V1 11g)

Green

Check

Cycle

<175 drop

<50 per side

Idle

Cycle

Pre Checks

Throttle	Lock Firm
Trim	Set for TO
Mixture	Full Rich
Carb Heat	Cold
Prop Pitch	Full & Fine (NA)
Fuel	
Cutoff	Down and Locked
Selector	Locked
Primer	Locked
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 76 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	>65kts
	>200AGL
	+ VE Climb

Downwind Checks

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

Short Finals

Landing Clearance	Received
Windssock	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
Flaps	25°
Brakes	Release
Airborne	54kts (higher is heavy)
Climb	64kts

Precision Landing

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

Reference Speeds

10° Flap	80kts
25° Flap	70kts
40° Flap	60 to 66 kts
50ft/Threshold	66kts Powered

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	75 – 80 kts
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	75 - 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	45°

Forced Landings (No Power)

Carb Heat	Hot
Fuel Pump	On
IAS	Convert to height Target 76kt 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

Piper Archer II (PA28-181)

General Specifications (refer Manual)

Ramp Weight	2558 lbs
MAUW	2550 lbs (1155kg)
Empty Weight	1599 lbs (725kg)
Max Baggage	200 lbs (90kg)
Max Fuel	290 lbs (135kg)

Flap Positions **10°, 25°, 40°**

Fuel

Tanks	2
Capacity	95 Litres
Total Cap	190 Litres
Unusable	7.6 Litres
Total Use	182.4 Litres

Fuel Consumption **40 litres / hour**

Endurance **4 Hours 32 Mins**

Oil Min:	5 qts
Max:	8 qts