

PIPER ARCHER II CHECKLIST

(PA-28-181)

Before Start

Preflight Inspection___ *S.A.F.E.T.Y
Passenger Briefing___ COMPLETE
Seats & Belts___ SECURED
Brakes___ SET
Electrical Equipment___ OFF
Circuit Breakers___ CHECK
Carburetor Heat___ OFF
Fuel Selector___ DESIRED TANK

Engine Start

Throttle___ 1/4" OPEN
Master Switch___ ON
Electric Fuel Pump___ ON
Mixture___ FULL RICH
Strobes/Beacon___ ON
Engine Prime___ AS REQ'D
Propeller Area___ CLEAR
Starter___ ENGAGE
Throttle___ 1000 RPMs
Oil Pressure___ CHECK
Electric Fuel Pump___ OFF
Fuel Pressure___ CHECK
Avionics Master___ ON
Transponder___ On/Alt
Radios___ Set-up and Check

Pre-Taxi

Pre-Taxi Brief___ COMPLETE
Taxi Area___ CLEAR
Brakes___ CHECK
Steering/Instruments___ CHECK
Controls___ WIND CORRECTION

Before Takeoff Run-up

Parking Brake___ SET
Throttle___ 2000 RPMs
Magnetos___ MAX -175 DROP
MAX 50 DIFFER
Carburetor Heat___ On/Test
Ammeter___ CHECK
Vacuum___ 5.0" HG
Oil Temperature___ CHECK
Oil Pressure___ CHECK
Fuel Pressure___ CHECK
Fuel Gages___ AS EXPECTED
Annunciator Panel___ CHECK
Throttle___ 1000 RPMs
Carburetor Heat___ OFF
Electric Fuel Pump___ ON
Mixture___ SET
Primer___ IN/LOCKED
Flight Instruments___ CHECK
Fuel Selector___ DESIRED TANK
Seat Backs___ ERECT
Belts/Harnesses___ FASTENED
Flaps___ SET
Trim Tab___ NEUTRAL
Controls___ FREE/CORRECT
Doors___ LATCHED
Radios___ SET
Transponder___ SET
Strobes___ ON
Landing Light___ ON
Pre-Takeoff Briefing___ COMPLETE
Departure___ ANNOUNCE

Normal Takeoff

Flaps___ RETRACTED
Time___ CHECK
Heading Indicator___ CHECK
Engine Instruments___ CHECK
Airspeed (Vr)___ 55 KIAS
Climb (Vy)___ 76 KIAS

Short Field Takeoff

Flaps (25*)___ 2 NOTCHES
Brakes___ SET
Time___ CHECK
Heading Indicator___ CHECK
Throttle___ FULL
Engine Instruments___ CHECK
Brakes___ RELEASE
Airspeed (Vr)___ 49 KIAS
Climb (Vx)___ 64 KIAS
(Vy)___ 76 KIAS
Flaps___ RETRACT

Soft Field Takeoff

Flaps (25*)___ 2 NOTCHES
Controls___ FULL BACK
Time___ CHECK
Heading Indicator___ CHECK
Airspeed___ ROTATE ASAP
Ground Effect___ ESTABLISH
Climb (Vy)___ 76 KIAS
Flaps___ RETRACT

Cruise/Enroute

Throttle___ As Required
Trim___ AS REQ'D
Fuel Pump___ OFF
Mixture___ ADJUST
Landing Light___ OFF

Approach/Landing

Arrival Procedure___ BRIEF
Fuel Selector___ DESIRED TANK
Mixture___ FULL RICH
Electric Fuel Pump___ ON
Landing Light___ ON
Flaps___ AS REQ'D
Approach Speed___ 70 KTS +5

After Landing

Flaps___ RETRACT
Electric Fuel Pump___ OFF
Landing Light___ OFF

Engine Shut Down

Electrical Equipment___ OFF
Throttle___ FULL AFT
Mixture___ IDLE CUT-OFF
Magnetos___ OFF
Master Switch___ OFF
Nav/Beacon___ OFF
Hobbs/Tach___ RECORD
Cockpit___ SECURE
Tie-Down___ CHECK

EMERGENCY PROCEDURES

Engine Failure

Airspeed (Vg) _____ 73 KIAS
Locate Suitable Landing Area
Fuel Selector _____ SWITCH TANKS
Electric Fuel Pump _____ ON
Mixture _____ FULL RICH
Throttle _____ ADJUST
Carburetor Heat _____ ON
Engine Gauges _____ CHECK
Primer _____ IN/LOCKED
Ignition Restart _____ Magnetos

- *Establish Spiral Over Landing Area
- *Radio – (121.50) MAYDAY
- *Transponder – 7700
- *Ignition – OFF
- *Electrical Equipment – OFF
- *Master Switch – OFF
- *Fuel Selector - OFF
- *Mixture – IDLE/CUT-OFF
- *Seatbelts – Tighten
- *Flaps – ON FINAL
- *Door – OPEN

Engine Roughness

Carburetor Heat _____ ON
Mixture _____ FULL RICH
Electric Fuel Pump _____ ON
Fuel Selector _____ CHANGE TANKS
Engine Gauges _____ CHECK
Magnetos _____ L-R-BOTH

- *Land as Soon as Possible

Engine Fire on Start

Starter _____ CRANK
Mixture _____ IDLE/CUT-OFF
Throttle _____ OPEN
Electric Fuel Pump _____ OFF
Fuel Selector _____ OFF
Abandon Aircraft

Engine Fire in Flight

Fuel Selector _____ OFF
Electric Fuel Pump _____ OFF
Throttle _____ FULL AFT
Mixture _____ IDLE/CUT-OFF
Heater/Defroster _____ OFF
Windows/Doors _____ OPEN
Vents _____ OPEN

- *Emergency Descent Maneuver
- *Airspeed 120 KIAS (blow-out)
- *Power-Off Landing

Electrical Fire

Electrical Equipment _____ OFF
Master Switch _____ OFF
Heater/Defroster _____ OFF
Vents _____ OPEN

- *Land as Soon as Practical

Alternator Failure

“ALT” Annunciator _____ ON
Electrical Load _____ REDUCE
ALT Switch _____ “OFF” then “ON”

- *Land as Soon as Practical

V – Speeds

Vne – Never Exceed 154 KIAS
Vno – Max Cruise 125 KIAS
Va - Maneuver Speed 113 KIAS
Vfe – Max Flap Extend 102 KIAS
Vy – Best Rate Climb 76 KIAS
Vg – Best Glide 76 KIAS
Vx – Best Angle Climb 64 KIAS
Vr – Rotate Speed 55 KIAS
Vs1 – Stall Speed Clean 55 KIAS
Vs0 – Stall Speed Flaps 49 KIAS

Calculate

Take-off/Landing Distances
Cruise Range
Fuel Burn
Useful Load
Weight & Balance

Useable Fuel – 48 gal
Useable Fuel to Tabs – 34 gal

This checklist is provided for reference only and is not intended to be a substitute for the Pilot Operating Handbook.

Passenger Briefing

S – Seatbelts
A – Air Vents/Air Sickness
F – Fire Extinguisher
E – Exits
T – Traffic/Talking
Y – Your Questions

Pre-Taxi Briefing

- *Establish P.I.C. Responsibilities
- *Positive Exchange of Controls
- *Review Airport Diagram and Taxi Route
- *Read back Taxi Instructions and Hold Short Requirements
- *Observe Sterile Cockpit Procedure
- *Collision Avoidance Practices

Departure Briefing

- *Normal Departure

Emergency Brief

(While on Runway)

- *Power to Idle
- *Apply Brakes until Stopped

(After Liftoff)

- *Lower nose to Best Glide
- *Land ahead or within 30* to the right or left (altitude permitting)
- *At or above pattern altitude consider return to airport