

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 (Vv) ___ 76 KIAS

Soft 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 (Vv) ___ 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
Hobs/Tach ___ RECORD
Cockpit ___ SECURE
Tie-Down ___ CHECK

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

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
- Vv – 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 – 45
- Useable Fuel to _____ – 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