

Piper Archer - PA28-181

Preflight

- Operating Handbook - IN PLANE
- Weight & Balance - CHECKED
- Parking Break - SET
- Control Wheel Lock - REMOVE
- Ignition Switch - OFF
- Avionics Power Switch(es) - OFF
- Flaps - UP
- Master Switch - ON
- Fuel Quantity Indicators - CHECK
- Must be visually verified
- Low-Vacuum Warn Light - CHECK
- Avionics Power Switch(es) - ON
- Avionics Power Switch(es) - OFF
- Master Switch - OFF
- Fuel Selector - CHOOSE TANK

Right Wing

- Aileron - MOVEMENT / SECURE (use full hand, not fingertips)
- Wing Tie-Down - DISCONNECT
- Main Wheel Tire - => 24 PSI
- Fuel Sump Drain - CHECK
- Fuel Qty - CHECK VISUALLY
- Fuel Filler Cap - SECURE
- Check for hydraulic leaks

Nose

- Engine Oil - > 5-6 QT
Exxon Elite - Add full quarts only.
- Cowling - Secure
- Prop & Spinner - NICKS/SECURE
- Engine/Oil Inlets - CLEAR
- Nose Wheel/Strut - => 18 PSI
- Nose Sump - CHECK

Left Wing

- Wing Tie-Down - DISCONNECT
- Fuel Sump Drain - CHECK
- Fuel Qty - CHECK VISUALLY
- Fuel Filler Cap - SECURE
- Main Wheel Tire - => 24 PSI
- Pitot Tube Cover - OFF / CLEAR
- Fuel Vent Opening - CLEAR
- Aileron - MOVEMENT
Use broad hand, not finger grip
- Check for hydraulic leaks

Empennage

- Tail Tie Down - DISCONNECT
- Control Surfaces - MOVEMENT
Don't touch rudder / trim tabs.
Tilt END of stabilator to check.
- Undercarriage/Antennas - CHECK
- Tail Light / Wicks - CHECK
- Baggage Door - CLOSED

Engine Pre-Start

- Passenger Brief - COMPLETE
- Seats/Belts/Harness - SECURE
- Brakes - TEST/SET
- Avionics Master - OFF
- Panel Lights - OFF DAYTIME
- Circuit Breakers - CHECK IN
- Fuel Selector - FULLER / NOTE
- Master Switch - ON
- Beacon - ON

Engine Start

- Carb Heat - COLD
- Mixture - FULL RICH
- Throttle - PUSH OPEN 1 INCH
- Prime - IF REQUIRED (3-5x)
- Elect Fuel Pump - ON
- Throttle - OPEN 1/2 INCH
- Prop Area - CALL CLEAR
- Ignition Switch-START/RELEASE
- Throttle - ADJUST 1000 RPM
- Oil Pressure - CHECK
- Voltmeter - VERIFY > 13.5

Pre-Taxi

- Fuel Pump - OFF
- Avionics Master - ON
- Nav Lights - As Needed
- Mixture - FULL RICH
- Brakes - Test

Pre-Takeoff

- Parking Break - SET
- Seats/Belts/Harness - SECURE
- Cabin Door - CLOSE/LATCH
- Flight Cntrls - FREE/CORRECT
- Flight Inst - CHECK / SET
- Fuel Qty - CHECK
- Primer - IN/LOCKED
- Mixture - RICH (< 3K)
- Fuel Selector - RECHECK
- Elect Fuel Pump - ON
- Elevator Trim - SET
- Throttle - 2000 RPM
- Magnetos-R/L < 175 & 50 diff
- Carb Heat - CHECK DROP
- Suction - Approx 5inHg
- Engine Inst/Ammeter -CHECK
- Carb Ht Idle -CHECK@700rpm
- Throttle - 1000
- Throttle Friction Lock - ADJUST
- Radios/Xpdr/Avionics - SET
- Flight Plan - PROGRAMMED
- Autopilot - OFF
- Flaps - SET FOR TAKEOFF
- Window - CLOSED
- Door - PILOT CHECKS CLOSURE
- Parking Brake - RELEASE

Normal Takeoff

- On Runway Checklist
- Time - NOTE
- Transponder - ON
- Landing Light - ON
- DG - TO RUNWAY HDG
- Flaps - 0 DEGREES
- Carb Heat - COLD
- Throttle - FULL OPEN 2700
- Engine Instruments - CHECK
- Rotate - 65 KTS
- Climb Speed - Vy - 76 KTS
- Elect Fuel Pump - OFF AT ALT

Autopilot Ops

- Take off
- Establish 800 FPM Climb
- HDG Bug - DESIRED COURSE
- A/P - ON
- Cruise
- Select Desired CDI Output
- Course Pointer - Bearing To
- Select - NAV

Cruise

- Establish Cruise Power
- Lean
- Check Fuel Burn

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Note: This is not an official checklist. This is useful information specific to WFC aircraft. You are responsible for proper familiarization with specific aircraft POH.

Normal Landing

- Seatbelts, Etc. - SECURE
- Landing light - ON
- Mixture - FULL RICH
- Fuel: Pump - ON / FULLER TANK
- Airspeed - (flaps up) 82 - 90 KTS
- Flaps - AS DESIRED < 100 KTS
- Airspeed - APPROACH 75 KTS
- Airspeed - (flaps dn) 66 KTS
- Touchdown - MAINS FIRST, NOSE HIGH, CENTERLINE

Short Field Landing

- Same as Normal, thence...
- Airspeed - (flaps up) 82 - 90 KTS
- Flaps - 25 DEGREES < 100 KTS
- Airspeed - (flaps dn) 66 KTS
- Touchdown - MAINS FIRST
- Roll - LOWER NOSE
- Braking - APPLY HEAVILY

Post Landing

- EXIT RUNWAY FIRST
- Carb Heat - COLD
- Flaps - UP
- Landing Light - OFF
- Transponder - OFF
- Mags Grounded - CHECK
- Mixture - LEAN FOR TAXI
- Contact Ground Control

ENGINE FIRE

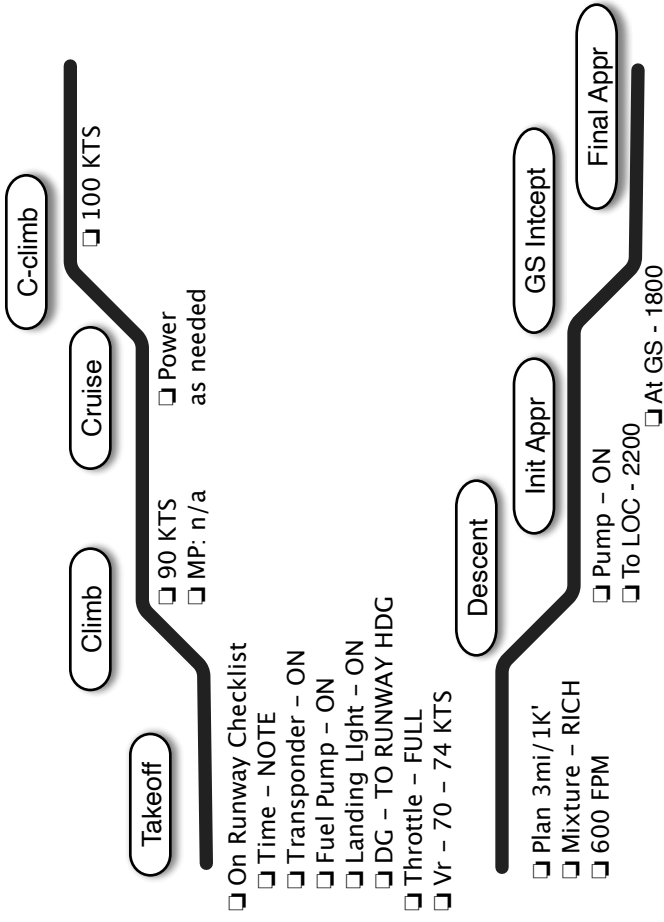
- Mixture - IDLE / CUTOFF
- Fuel Selector Valve - OFF
- Master Switch - OFF
- Cabin Heat/Air - OFF
- Airspeed - 85 KTS - INCREASE AS NECESSARY TO EXTINGUISH
- Forced Landing - EXECUTE

Engine Start (HOT)

- Throttle - OPEN FULL
- Master - ON
- Elect. Fuel Pump - OFF
- Mixture - IDLE / CUTOFF
- Starter - ENGAGE
- Mixture - ADVANCE/RETRD THRT

Short Field Takeoff

- Flaps - 25 DEGREES (2nd notch)
- Carb Heat - COLD
- Brakes - APPLY
- Mixture - FULL RICH < 3000
- Throttle - FULL OPEN
- Brakes - RELEASE
- Rotate - BOTTOM OF WHITE ARC
- Accelerate - Vx 64 KTS
- Obstacles - CLEARED
- Accelerate - Vy 76 KTS
- Flaps - RETRACT SLOWLY



Speed	Kts	MPH
Vr	65	75
Cruise	87	100
Vy	76	100
Vx	64	86
Va	113	130
Vne	154	177
Appr	75	86
Vle	n/a	n/a
Vfe	100	115
Vs	59	68
Vso	53	61
C-climb	100	115
E Desc	144	166
Glide	76	100
E Appr	70	81

