

Piper Archer Checklist



PREFLIGHT INSPECTION

INTERIOR

POH.....ACCESSIBLE
 Airworthiness/Registration.....CHECKED
 G1000 Reference Guide.....ACCESSIBLE
 Weight and Balance.....CHECKED
 Parking Brake.....SET
 Control Wheel Lock.....REMOVE
 Electrical Equipment.....OFF
 Mixture.....IDLE CUTOFF
 Magnetos.....OFF
 Battery Master Switch.....ON
 Interior Lighting (Night Only).....CHECK
 Pitot Heat Switch.....ON
 Pitot Heat Off CAS Message...NOT SHOWN
 Fuel Quantity (L & R).....CHECK
 Exterior Lights.....ON/CHECK
 Pitot Heat.....CHECK
 Stall Warning Horn.....CHECK
 All Light Switches.....OFF
 Pitot Heat Switch.....OFF
 Pitot Heat CAS Msg.....SHOWN
 Battery Master.....OFF
 Flaps.....DOWN
 Flight Controls.....CHECK
 Trims.....NEUTRAL
 Pitot/Static System.....DRAIN
 Alt Air.....OFF
 Alt Static Source.....OFF

EXTERIOR

Baggage Door.....CHECK
 R Wing Flap.....CHECK
 R Wing Aileron.....CHECK
 R Wing Tiedown.....DISCONNECT
 R Wing Lights.....CHECK CONDITION
 R Wing Fuel Quantity.....CHECK Visually
 R Wing Fuel Tank Sumps.....DRAIN
 R Main Wheel Tire.....CHECK
 Engine Oil/Dipstick.....CHECK
 Propeller and Spinner.....CHECK
 (Nicks and security)
 Engine Cooling Air Inlets.....CHECK
5 quarts min, 6 preferred (keep <7)
 Nosewheel Strut and Tire.....CHECK
 Nose Strainer.....DRAIN
 L Main Wheel Tire.....CHECK
 L Wing Fuel Sump.....DRAIN
 L Wing Fuel Quantity.....CHECK
 L Wing Lights.....CHECK CONDITION
 L Wing Tiedown.....DISCONNECT

L Wing Aileron.....CHECK
 L Wing Flap.....CHECK
 Pitot Tube.....CLEAR
 Antennas.....CHECK
 Fuselage.....CHECK
 Stabilator.....CHECK
 Stabilator Trim Tab.....CHECK
 Rudder and Stabilizer.....INSPECT
 Tail Tiedown.....DISCONNECT

BEFORE STARTING ENGINE

Preflight.....COMPLETE
 Passenger Briefing.....COMPLETE
 Flaps.....UP
 Seats and Seatbelts.....ADJUST and LOCK
 Brakes.....TEST & HOLD
 Emergency Battery.....ARM
 Circuit Breakers.....CHECK IN
 Electrical Equipment.....OFF
 Battery Master.....OFF
 Avionics.....OFF

STARTING ENGINE

PFD.....NORMAL INDICATIONS
 BUS E Volts.....23.3 VOLTS MINIMUM
 Fuel Quantity.....CHECK
 Fuel Selector Valve.....FULLEST TANK
 Throttle.....OPEN ¼ INCH
 Mixture.....IDLE CUTOFF
 Battery Master.....ON
 Alternator Switch.....ON
 Magneto Switches.....ON
 Fin Strobe.....DOWN
 Nav Light (Night Only).....ON
 Prop Area.....CLEAR

PRIME:

Fuel Pump Switch.....ON
 Mixture.....RICH
COLD(Rich 3-5 seconds until fuel flow stabilizes)
HOT(Rich 1-3 seconds and Throttle ½" open)
 Mixture.....IDLE CUT-OFF
 Fuel Pump Switch.....STILL ON
 Starter.....ENGAGE
 Mixture.....SMOOTHLY to rich
 Throttle.....1000 RPMs
 Oil Pressure.....CHECK in green
 Avionics Master.....ON

BEFORE TAXI

Emergency Battery.....VERIFY ARM
 GPS.....VERIFY DATABASE
 Brakes.....CHECK
 Messages.....CHECK

Transponder.....1200
 Radios.....TUNE/ATIS
 Instruments.....CHECK
 Flight Plan.....ENTER/ACTIVATE
 Hotspots/Taxi Route.....BRIEF
 Fuel Pump.....OFF then ON
 (check fuel pressure)
 Landing Light.....ON
 Strobes (Day Only).....UP

BEFORE TAKEOFF

COM Frequencies.....SET
 Seats/Seat Belts.....UPRIGHT/SECURE
 Flight Controls.....FREE and CORRECT
 Flight Instruments.....NO RED X's
 PFD (BARO).....SET
 ALT Select.....SET
 Standby Instruments.....NO RED X's
 Standby Altimeter.....SET
 Fuel.....STATE QUANTITY
 Mixture.....RICH
 Fuel Selector Valve.....FULLEST TANK
 Autopilot.....ENGAGE/CHECK
 (Verify A/P disengages and alert is heard)
 Flight Director.....OFF
 Stabilator Trim.....TAKEOFF
 Throttle.....2000 RPM
 Magnetos Switch.....CHECK(175/50)
 Engine Indicators.....CHECK
 Amps and Volts.....CHECK
 Alt Air.....~40 RPM DROP
 Annunciators.....CHECK(verify none)
 Throttle.....CHECK IDLE
 Throttle.....1000 RPM or LESS
 Throttle Friction.....ADJUST
 Fuel Pump.....ON
 Mixture.....SET
 NAV Frequencies.....SET
 FMS/GPS Flight Plan.....SET
 XPDR.....SET
 CDI Softkey.....SELECT NAV SOURCE
 Flaps.....0 or 25 degrees
 Exterior Lights.....ALL ON
 Air Conditioner.....OFF
 Cabin Door & Window..CLOSED & LOCKED
 Departure/Emergency Plan.....BRIEF

* See Briefing Card*

TAKEOFF & CLIMB

Throttle.....FULL
 Mixture.....SET
 Rotate.....60 KIAS
 Climb Airspeed.....70-80 KIAS
 Flaps.....RETRACT(at safe altitude)

CRUISE

Power.....2000-2500 RPM
 (No more than 75% power)
 Trim.....ADJUST
 Mixture.....LEAN (Above 3000')
 Fuel Pump.....OFF
 Fuel.....STATE QUANTITY
 FMS/GPS.....REVIEW and BRIEF
 Landing Light.....OFF
 Nav Light (Day Only).....OFF

PRE-MANEUVER

Landing Light.....ON
 Mixture.....SET
 Fuel Selector Valve.....FULLEST TANK
 Fuel.....STATE QUANTITY
 Air Conditioning.....OFF
 Area.....CLEAR

SWITCHING FUEL TANKS

Fuel Pump.....ON
 Fuel Selector Valve.....FULLEST TANK
 Fuel Pump.....OFF
 Fuel Flow.....MONITOR

DESCENT

BARO.....SET
 FMS/GPS.....SET AND BRIEF
 Power.....AS NEEDED
 Mixture.....ADJUST
 Fuel Selector Valve.....FULLEST TANK
 Fuel Pump.....ON

BEFORE LANDING

Seats/Seatbelts.....SECURE/LOCKED
 Fuel Selector Valve.....FULLEST TANK
 Mixture.....RICH
 Landing Light.....ON
 Fuel Pump.....ON
 Autopilot.....OFF (200 AGL)
 Air Conditioning.....OFF(if touch and go)

note A/C must remain off while in the pattern for multiple touch and go's

Throttle (downwind).....2100 RPM
 Throttle (abeam).....1500 RPM
 Flaps (<102 KIAS).....SET FOR LANDING
 Approach.....70 KIAS

AFTER LANDING

Flaps.....UP
 Radios.....SET (As Required)
 Fuel Pump.....OFF
 Landing Lights.....OFF
 Fin Strobe.....DOWN
 Air Conditioner.....AS NEEDED

SECURING AIRPLANE

XPNDR.....VFR
 Fuel Pump.....OFF
 Emergency Battery.....OFF
 Avionics Switch.....OFF
 Air Conditioner.....OFF
 Electrical Equipment.....OFF
 Interior Lights.....OFF
 Fin Strobe.....DOWN
 Alternator Switch.....OFF
 Throttle.....IDLE
 Mixture.....IDLE CUTOFF
 Magnetos.....OFF
 Battery Master.....OFF
 Control Lock.....INSTALL
 Engine Times.....RECORD

EMERGENCY PROCEDURES

Items in bold are to be committed to memory

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....IDLE
Brakes.....APPLY
 Flaps.....RETRACT
 Mixture.....IDLE CUTOFF
 Magnetos Switch.....OFF
 Emergency Battery.....OFF
 Battery and Alternator.....OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed.....76 KIAS
 Mixture.....IDLE CUTOFF
 Magnetos Switch.....OFF
 Flaps..AS REQUIRED (Full Recommended)
 Emergency Battery.....OFF
 Battery and Alternator.....OFF
 Cabin Door.....UNLATCH
 Land.....STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT

Airspeed.....76 KIAS (best glide)
Fuel Selector.....FULLEST TANK
FUEL PUMP Switch.....ON
MIXTURE.....RICH
Alt Air.....OPEN
Magneto Switches.....OFF then ON

If power restored:

Alt Air.....CLOSE
 Fuel Pump.....OFF

If power is not regained, proceed with power-off landing

If altitude permits, declare emergency on 121.5, activate ELT, squawk 7700.

EMERGENCY LANDING WITHOUT POWER

Pilot and Passenger Seats.....UPRIGHT
 Seats and Seatbelts.....SECURE
 Airspeed.....76 KIAS
 Air Conditioning.....OFF

When committed to landing:

Airspeed.....66 KIAS
 Flaps.....AS DESIRED
 Throttle.....CLOSE
 Mixture.....IDLE CUTOFF
 Magnetos.....OFF
 Battery Master.....OFF
 Alternator.....OFF
 Fuel Selector.....OFF
 Doors.....UNLATCH
 Touchdown.....SLIGHTLY TAIL LOW
 Brakes.....APPLY HEAVILY

ALTERNATOR FAILURE

Alternator.....OFF
 Alt Circuit Breaker.....IN/RESET
 Alt Field Circuit Breaker.....IN/RESET
 Alternator.....ON

*If alternator still failed:

Alternator.....OFF
 Electrical Load.....SHED
 Land as soon as practical

LOST COMMUNICATIONS

RADIO.....Verify Frequency
 Volume/Squelch.....Adjust
 Push To Talk.....Verify Transmitting
 COMMS.....Switch radios/Frequency
If 2-way communications not re-established

Squawk.....7600
 Land.....As soon as practicable
 (Recall Light Gun Signals)

ENGINE FIRE DURING START

Starter.....CONTINUE CRANKING
Mixture.....IDLE CUTOFF
Throttle.....OPEN
Fuel Pump.....OFF
Fuel Selector.....OFF
 If fire continues.....ABANDON

ENGINE FIRE IN FLIGHT

Fuel Selector.....OFF
Throttle.....CLOSED
Mixture.....IDLE CUTOFF
Fuel Pump.....OFF
Heater/Defroster.....OFF
****IF FIRE IS NOT EXTINGUISHED, INCREASE AIRSPEED WITHIN LIMITS THAT WILL PROVIDE INCOMBUSTIBLE MIXTURE****
FORCED LANDING.....EXECUTE

ELECTRICAL FIRE IN FLIGHT

Emergency Battery.....VERIFY ARM
Battery Master.....OFF
Alternator Switch.....OFF
Vents.....OPEN
Heater/Defroster.....OFF
 Fire.....EXTINGUISH
 Emergency Descent.....IF NEEDED
 Land as soon as possible

WING FIRE

Exterior Lights.....ALL OFF
 Pitot Heat Switch.....OFF
Perform Sideslip to keep flames away from fuel tank and cabin

Vr - 60 KIAS	Va - 98-113 KIAS
Vx - 64 KIAS	Vno - 125 KIAS
Vy - 76 KIAS	Vne - 154 KIAS
Vso - 45 KIAS	Vs1 - 50 KIAS
Vg - 76 KIAS	Vfe - 102 KIAS



4700 Airport Parkway
 Addison, Texas 75001
 972.735.9099

After Hours Manager
972.735.9099 ext. 107

KADS

ATIS (972-628-2439)	133.40
Ground	121.60
Tower (972-628-2420)	126.00
Approach (972-615-2500)	124.3/124.25
Atlantic (Fuel - 972-713-7000)	122.8