

# Piper Archer Checklist



## PREFLIGHT INSPECTION

### INTERIOR

Airworthiness Acceptance ..... VERIFY  
 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  
 Trims ..... NEUTRAL  
 Pitot/Static System ..... DRAIN  
 Alt Air ..... CLOSED  
 Alt Static Source ..... OFF

### EXTERIOR

Baggage Door ..... CHECK  
 R Wing Flap ..... CHECK  
 R Wing Aileron ..... CHECK  
 R Wing Lights ..... CHECK CONDITION  
 R Wing Tiedown ..... DISCONNECT  
 R Wing Fuel Quantity ..... CHECK Visually  
 R Wing Fuel Sump ..... DRAIN  
 R Main Wheel Tire ..... CHECK  
 Engine Oil/Dipstick ..... CHECK  
**5 quarts min, 6 preferred (keep <7)**  
 Propeller and Spinner ..... CHECK  
 (Nicks and security)  
 Engine Cooling Air Inlets ..... CHECK  
 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 Tiedown ..... DISCONNECT  
 Pitot Mast ..... CLEAR  
 L Wing Lights ..... CHECK CONDITION  
 L Wing Aileron ..... CHECK  
 L Wing Flap ..... CHECK  
 Antennas ..... CHECK  
 Fuselage ..... CHECK

Stabilator ..... CHECK  
 Stabilator Trim Tab ..... CHECK  
 Rudder and Stabilizer ..... INSPECT  
 Tail Tiedown ..... DISCONNECT  
 Flaps ..... UP

## BEFORE STARTING ENGINE

Preflight ..... COMPLETE  
 Passenger Briefing ..... COMPLETE  
 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

PFID ..... 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 (read first and then execute):

Fuel Pump Switch ..... ON  
 Mixture ..... RICH  
**COLD** (Rich 7 seconds until fuel flow stabilizes)  
**HOT** (Rich 3-5 seconds and Throttle ½" open)  
 Mixture ..... IDLE CUT-OFF  
 Fuel Pump Switch ..... STILL ON  
 Starter ..... ENGAGE  
 Mixture ..... SMOOTHLY to rich  
 Throttle ..... 700 - 1000 RPMs  
 Oil Pressure ..... CHECK in green  
 Avionics Master ..... ON

## BEFORE TAXI

Emergency Battery ..... VERIFY ARM  
 GPS ..... VERIFY DATABASE  
 Map Orientation ..... SET  
 Brakes ..... CHECK  
 Messages ..... CHECK  
 Transponder ..... 1200  
 Radios ..... TUNE/ATIS  
 Instruments ..... SET AND CHECK  
 Standby Altimeter ..... SET AND CHECK  
 Flight Plan ..... ENTER/ACTIVATE

Hotspots/Taxi Route ..... BRIEF  
 Landing Light ..... ON  
 Strobes (Day Only) ..... UP  
 Taxi ..... 700 to 1000 RPMs

## RUNUP

COM Frequencies ..... SET  
 Seats/Seat Belts ..... UPRIGHT/SECURE  
 Flight Controls ..... FREE and CORRECT  
 NAV Frequencies ..... SET  
 FMS/GPS Flight Plan ..... SET  
 XPDR ..... SET  
 CDI Softkey ..... SELECT NAV SOURCE  
 Fuel ..... STATE QUANTITY  
 Mixture ..... RICH  
 Fuel Selector Valve ..... FULLEST TANK  
 Throttle ..... 2000 RPM  
 Magnetos Switch ..... CHECK (175/50)  
 Fuel Pump ..... OFF/CHECK FLOW/ON  
 Engine Indicators ..... CHECK  
 Amps and Volts ..... CHECK  
 Alt Air ..... CHECK  
 Annunciators ..... CONSIDER  
 Throttle ..... CHECK IDLE  
 Throttle ..... 1000 RPM or LESS  
 Throttle Friction ..... ADJUST

## BEFORE TAKEOFF

Fuel Pump ..... ON  
 Flaps ..... 0 or 25 degrees  
 Trim ..... NEUTRAL  
 Air Conditioner ..... OFF  
 Cabin Door & Window.. CLOSED & LOCKED  
 Departure/Emergency Plan ..... BRIEF  
 \* See Briefing Card\*

## TAKEOFF & CLIMB

Exterior Lights (when entering rwy) ..... ON  
 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 ..... STATE QUANTITY  
 Fuel Pump ..... OFF  
 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 Conditioner ..... AS NEEDED  
 Area ..... CLEAR

## SWITCHING FUEL TANKS

Fuel Pump ..... ON  
 Fuel Selector Valve ..... FULLEST TANK  
 Fuel Pump ..... OFF (except Takeoff/Landing)  
 Fuel Flow ..... MONITOR

## DESCENT

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

## BEFORE LANDING

Seats/Seatbelts ..... SECURE/LOCKED  
 Fuel Pump ..... ON  
 Fuel Selector Valve ..... FULLEST TANK  
 Mixture ..... RICH  
 Landing  
 Light ..... ON

Autopilot ..... OFF (200 AGL)  
 Air Conditioner ..... 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/HEELS ON FLOOR

## 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

## 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)

## 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 restored, proceed with power-off landing\*

**If altitude permits, declare emergency on 121.5, squawk 7700.**

## EMERGENCY LANDING WITHOUT POWER

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

### 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



# THRUST FLIGHT

Elevate Your Experience

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)	122.85