

**PIPER ARCHER III**

**FREQUENCIES**

**BED**  
**ATIS.....124.6**  
**GROUND.....121.7**  
**TOWER.....118.5**  
**BOS APP...124.4**  
**Signature ..... 781-274-0010 / 130.8**

**OWD**

**ATIS.....119.95**  
**GROUND...121.8**  
**TOWER.....126.0**  
**BOS APP.....124.1**

**ASH**

**ATIS.....125.1**  
**GROUND...121.8**  
**TOWER.....133.2**  
**BOS APP.....124.9**

**Practice area-ALL ..... 123.5**

**Emergency (guard)..... 121.5**

**Signature KBED... 781-274-0010 / 130.8**

**COCKPIT SAFETY CHECK**

**Magnetos ..... OFF, KEYS OUT**  
**Mixture ..... CUTOFF**  
**Throttle ..... CLOSED**

**PREFLIGHT**

Hobbs & tach ..... RECORD  
 Documents (AROW) ..... CHECK  
 Flight controls ..... RELEASE  
 Parking brake ..... AS REQUIRED  
 Avionics/Radio master ..... OFF  
 Electrical switches ..... OFF  
 Master switch (UPPER PANEL) ..... ON  
 Fuel gauges ..... CHECK  
 Annunciator panel ..... TEST  
 Aux vacuum pump ..... CHECK  
 Pitot heat ..... ON, CHECK, OFF  
 Exterior lights (UPPER PANEL) ON, CHECK, OFF  
 Stall horn ..... CHECK  
 Annunciator Panel ..... CHECK  
 Master switch ..... OFF  
 Altimeter ..... FIELD ELEVATION  
 Magnetic compass ..... CHECK  
 Pitot & static drains ..... DRAIN  
 Flight controls ..... CHECK  
 Flaps ..... EXTEND  
 Fire extinguisher ..... CHECK  
 Windows ..... CHECK

**RIGHT WING**

General condition ..... CHECK & CLEAR  
 Flap ..... CHECK  
 Aileron ..... CHECK  
 Wingtip ..... CHECK  
 Tie down/chock ..... REMOVE  
 Fuel tank vent ..... CHECK  
 Fuel tank sump ..... DRAIN & NO DRIPS  
 Fuel tank ..... CHECK  
 Fuel cap & Vent ..... CHECK  
 Main gear ..... CHECK  
 Fresh air inlet ..... CHECK

**NOSE**

General condition & leaks ..... CHECK  
 Cowling ..... SECURE  
 Oil (max 6, min 5.5) ..... CHECK  
 Propeller & spinner ..... CHECK  
 Alternator belt ..... CHECK  
 Air inlets ..... CHECK  
 Nose gear ..... CHECK  
 Chock ..... REMOVE  
 Fuel strainer ..... DRAIN & NO DRIPS

**LEFT WING**

General condition ..... CHECK & CLEAR  
 Fresh air inlet ..... CHECK  
 Main gear ..... CHECK  
 Fuel tank vent ..... CHECK  
 Fuel tank sump ..... DRAIN & NO DRIPS  
 Fuel tank ..... CHECK  
 Fuel cap & Vent ..... CHECK  
 Tie down/chock ..... REMOVE  
 Pitot Tube 3 Holes ..... CHECK  
 Wingtip ..... CHECK  
 Aileron ..... CHECK  
 Flap ..... CHECK

**LEFT FUSELAGE**

General condition ..... CHECK  
 Antennas ..... CHECK  
 Fresh air inlet ..... CLEAR

**EMPENNAGE**

Stabilator ..... CHECK & CLEAR  
 Trim tab ..... CHECK & CLEAR  
 Rudder ..... CHECK & CLEAR  
 Antennas ..... CHECK  
 Tie down ..... REMOVE

**RIGHT FUSELAGE**

General condition ..... CHECK  
 Antennas ..... CHECK  
 Baggage area ..... SECURE  
 Baggage door ..... Un-locked & LATCHED

**BEFORE ENGINE START**

Tail Lock ..... IN COCKPIT  
 Flaps ..... RETRACT  
 Passenger briefing ..... COMPLETE  
 Seats & seat belts ..... SECURE  
 Alternate Static Source ..... OFF  
 Fuel selector . . . LOWEST TANK or EITHER TANK  
 Circuit breakers ..... CHECK

Strobes ..... ON  
 Carb heat ..... OFF  
 Brakes ..... SET & HOLD

**ENGINE START**

Throttle ..... 1/4" COLD, 1/2" HOT  
 Master & Alt switches ..... ON  
 Fuel pump (UPPER PANEL) ..... ON  
 Mixture ..... RICH  
 Prime ..... 3 to 5 Seconds MAX  
 Propeller area ..... CLEAR

**LEFT MAG (UPPER PANEL) ..... ON**

Starter ..... ENGAGE

**RIGHT MAG (UPPER PANEL) ..... ON**

Throttle .. 800 RPM (No Higher Than 1000)  
 Oil pressure ..... CHECK  
 Fuel pump ..... OFF  
 Mixture ..... LEAN

**BEFORE TAXI**

Avionics/Radio master ..... ON  
 Autopilot Tests ..... CHECK  
 Transponder (1200 VFR) ..... ALT  
 Radios ..... SET  
 ATIS ..... CHECK  
 Flight instruments ..... SET  
 Lights ..... AS APPROPRIATE  
 Navigation & Transponder ..... SET  
 Radio ..... CLNC, GROUND/CTAF  
 #2 Radio ..... MONITOR  
 121.5

**TAXI**

Parking Brake ..... RELEASE  
 Brakes ..... CHECK  
 Flight instruments ..... CHECK

**ENGINE RUNUP**

Brakes ..... SET & HOLD  
 Oil Temp ..... IN THE GREEN  
 Fuel selector ..... OTHER TANK  
 Mixture (below 5000') ..... RICH  
 Throttle ..... 2000 RPM  
 Mags (drop 175, diff 50) ..... CHECK  
 Vacuum (4.8-5.2") ..... CHECK  
 Engine gauges ..... CHECK  
 Annunciator panel ..... TEST  
 Load meter .. CHARGING LTS & pitot on/off  
 Carb heat (max drop-75 RPM) ..... ON  
 Throttle (min 500 RPM) ..... IDLE  
 Carb heat ..... OFF  
 Throttle ..... 1000 RPM  
 Flight controls ..... CHECK

**BEFORE TAKEOFF**

Fuel pump ..... ON  
 Pitot heat ..... AS REQUIRED  
 Flight instruments ..... CHECK  
 Trims (Aileron & Rudder) ..... TAKEOFF  
 Flaps ..... NORMAL 0°, SHORT/SOFT 25°  
 Seats & seat belts .. UPRIGHT & SECURE  
 Door & window ..... SECURE  
 Lights ..... ON

Commented [1]:

Commented [2]:

**PIPER ARCHER III**

Takeoff briefing .....COMPLETE  
Radio ..... TOWER/CTAF

**TAKEOFF**

Mixture (below 5000') .....RICH  
Throttle ..... FULL  
Power (2240-2340 RPM=STATIC) . CHECK  
Engine gauges ..... CHECK  
Airspeed ..... CHECK  
Rotate (0°/25°) ..... 60/55KIAS

**CLIMB**

Flaps...RETRACT AT SAFE SPEED (60KIAS)  
Airspeed (cruise climb) ..... 87 KIAS  
Fuel pump ..... OFF  
Fuel & Oil pressure ..... CHECK

**CRUISE**

Power ..... AS REQUIRED  
Mixture ..... LEAN AS REQUIRED

**FUEL TANK SWITCH**

Fuel pump ..... ON  
Fuel selector ..... DESIRED TANK  
Fuel pressure ..... CHECK  
Fuel pump ..... OFF

**DESCENT**

Power ..... AS REQUIRED  
Mixture ..... AS REQUIRED  
Carb heat ..... AS REQUIRED  
Seats & seat belts.. UPRIGHT & SECURE

**APPROACH & LANDING**

Downwind ..... 90 KTS  
Fuel pump ..... ON  
Fuel selector ..... FULLEST TANK  
Mixture (below 5000') ..... RICH  
Carb heat ..... AS REQUIRED  
Flaps (<102 KIAS) ..... AS REQUIRED  
Landing (0°) ..... 75 KIAS  
Landing (40°) ..... 66 KIAS

**AFTER LANDING**

RPM ..... 1000  
Radio ..... GROUND/CTAF  
Flaps ..... RETRACT  
Fuel pump ..... OFF  
Carb heat ..... OFF  
Mixture ..... LEAN  
Pitot Heat ..... OFF

**SHUTDOWN**

Call for fuel ..... AS REQUIRED  
Avionics/Radio master ..... OFF  
Throttle ..... IDLE  
Mixture ..... CUTOFF

**WHEN PROP STOPS**

Magnetos ..... OFF, KEY OUT  
Electrical switches ..... OFF  
Master & Alt switches (UPPER PANEL) ..... OFF  
Hobbs & tach ..... RECORD  
Flight controls ..... SECURE  
Tie downs ..... SECURE

Cover ..... ON

**SPEEDS**

Vg (0°) ..... 73 KIAS  
..... glide distance approx 1 NM per 550'  
Va ..... 113 KIAS  
Vfe ..... 103 KIAS  
Vy (0°) ..... 76 KIAS  
Vx (0°) ..... 64 KIAS  
Vx (25°) ..... 60 KIAS  
Vs0 ..... 44 KIAS  
Vs1 ..... 50 KIAS

**SPECS**

Usable fuel tabs/full ..... 34/50g  
Taxi fuel ..... Approx 1.4g  
Climb fuel ..... 12.0 GPH  
Crosswind ..... 17 KTS  
Maneuvers ..... 2200 RPM/90 KTS  
Cruise 3000'@70% .. 2520 RPM/109KTS  
Cruise GPH@70% (leaned) ..... 10.3

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**EMERGENCIES NOTE:** NOT ALL EPs are here. **Check POH for additional procedures**

**ENGINE FIRE DURING START**  
Starter ..... CONTINUE CRANKING  
Mixture ..... CUTOFF  
Throttle ..... OPEN  
Fuel pump ..... OFF  
Fuel selector ..... OFF

**ENGINE POWER LOSS IN FLIGHT**

Fuel selector ..... FULLEST TANK  
Fuel pump ..... ON  
Mixture ..... RICH  
Carb heat ..... ON  
Magnetos ..... BOTH  
Engine gauges ..... CHECK

**POWER OFF LANDING**

Trim for best glide ..... 76 KIAS  
Landing area ..... IDENTIFY  
Radio ..... MAYDAY  
Transponder ..... 7700  
Final approach (40°) ..... 66 KIAS  
Magnetos ..... OFF  
Master switch ..... OFF  
Alternator switch ..... OFF  
Fuel selector ..... OFF  
Mixture ..... CUTOFF  
Seatbelts ..... SECURE  
Door ..... UNLATCH

**ENGINE ROUGHNESS**

Carb heat ..... ON  
If still rough after ONE MINUTE:  
Carb heat ..... OFF  
Mixture ..... ADJUST TO SMOOTHEST  
Fuel pump ..... ON  
Fuel selector ..... SWITCH TANKS  
Engine gauges ..... CHECK  
Magnetos ..... CHECK SMOOTHEST  
Mixture ..... RICH  
Land ..... AS SOON AS PRACTICAL

**ENGINE FIRE IN FLIGHT**

Fuel selector ..... OFF  
Throttle ..... CLOSED  
Mixture ..... CUTOFF  
Fuel pump ..... OFF  
Heater & defroster ..... OFF  
Speed ..... INCREASE TO EXTINGUISH  
Land ..... IMMEDIATELY

**LOSS OF FUEL PRESSURE**

Fuel pump ..... ON  
Fuel selector ..... CHECK ON FULL TANK

**ELECTRICAL (CABIN) FIRE**

Master switch ..... OFF  
Alternator switch ..... OFF  
Vents ..... OPEN  
Heater & defroster ..... OFF  
Fire extinguisher ..... AS NECESSARY  
Land ..... AS SOON AS PRACTICAL