

Piper Archer III
Normal Checklist (Rev. 1.4 24AUG21)

BEFORE STARTING ENGINE

- Passenger Briefing COMPLETE
- Weight and Balance VERIFY IN LIMITS
- Seats ADJUSTED & LOCKED
- Seatbelts/Harnesses FASTEN/ADJUST
- Prayer AS DESIRED
- Fuel Selector DESIRED TANK
- Alternate Static Source OFF
- Parking Brake SET
- Carb Heat OFF
- Circuit Breakers CHECK IN
- Avionics Master OFF
- DAY/NIGHT Switch SET
- All Electrical Switches OFF
- Battery Master OFF

NOTE

The EMERG BATT may remain ON after checking for proper bus operation, thereby allowing the displays to remain active prior to engine start. Avoid delays between this check and engine starting to preserve emergency battery power.

EMERG BATT Switch ARM
 Verify Operation of:

- PFD with no red-x's on:
 - Attitude
 - Airspeed
 - Altitude
 - Vertical Speed
- Audio Panel
- Com 1
- Nav 1
- Engine Indications
- Standby Flight Instruments

E VOLTS Indication 23.3 VOLTS
 (Minimum for flight)

FUEL QTY Indications CHECK QTY AND IMBALANCE

ENGINE START – NORMAL, COLD

- Battery Master ON
- Alternator ON
- Fuel Pump ON
- Left MAG switch ON
- Fin Strobe ON
- Mixture FULL RICH
- Throttle 1/4 IN. OPEN
- CAS Msgs CONSIDER ANY ILLUMINATED
- PFD annunciations CONSIDER ANY ILLUMINATED
- Prime AS REQ'D

- Propeller CLEAR
- START switch ENGAGE
- Throttle ADJUSTED 800-1000 RPM
- RIGHT MAG switch ON
- Oil Pressure CHECK
- AVION MASTER switch ON

If engine doesn't start within 10 seconds, prime and repeat starting procedure

For hot engine start, open throttle ½ IN. and follow same procedure. *Note: If engine does not start shortly following starter engagement, continue cranking and move the mixture to idle cut-off.*

For External and Flooded Starts, refer to POH

BEFORE TAXI

- EMERG BATT switch VERIFY ARM
- MFD VERIFY DATABASE CURRENCY
- Fuel Totalizer FOB SYNC or MANUALLY
- Master Warning & Master Caution TEST
 (MFD -> AUX -> SYSTEM STATUS -> ANN TEST)
- CAS MSGs CONSIDER ANY ILLUMINATED
- Altimeter & Stdby Altimeter SET
- Standby Flight Instrument VERIFY ON, NO RED-X's
- Avionics / Transponder SET / CODE
- Heater and Defroster AS DESIRED
- Nav Lights AS REQ'D
- Mixture LEAN 1" FOR TAXI

TAXI

- Taxi Area CLEAR
- Landing Light ON
- Parking Brake RELEASE
- Brakes & Steering CHECK

NOTE

During taxi, if the VOLTS indication decreases into the warning range, increase engine RPM (if possible) to retain adequate battery charging.

GROUND CHECK

NOTE:

If E VOLTS was less than 23.3 VOLTS during BEFORE STARTING ENGINE checklist, refer to Expanded checklist in the POH for the GROUND CHECK Checklist

- Parking Brake SET
- Fuel Selector FULLEST TANK
- Throttle 2000 RPM
- Mixture ADJUST FOR D.A. & ELEVATION
- Carb Heat CHECK, THEN OFF
- Left/Right MAG check MAX DROP 175 RPM
 MAX DIFF. 50 RPM
- Fuel Pump OFF
- Verify engine operation
- Oil Temp CHECK
- Oil Pressure CHECK
- VOLTS Indication CHECK BUS (28 +/- 1 VOLT)
- ALTR AMPS indication CHECK NORMAL
- Throttle IDLE
 THEN 1000 RPM

BEFORE TAKEOFF – FIRST TAKEOFF

Battery Master VERIFY ON
 Alternator VERIFY ON
 Fuel Pump ON
 Left/Right MAG switches VERIFY ON
 Strobe Lights ON
 Flight Instruments CHECK
 Standby Flight Instruments CHECK
 CAS & System MSGs CONSIDER ANY ILLUMINATED
 PFD annunciations CONSIDER ANY ILLUMINATED
 Flight Controls FREE AND CORRECT
 Fuel Selector PROPER TANK
 Stabilator and Rudder Trims SET
 Flaps SET
 Mixture SET
 Carburetor Heat OFF
 Engine Indications CHECK
 Door/Window CLOSED & LATCHED
 Seat Backs ERECT
 Seats ADJUSTED & LOCKED
 Belts/Harness FASTENED/CHECK
 Empty Seats SEATBELTS SECURELY FASTENED
 Takeoff Briefing COMPLETE

CLIMB

Initial Climb 76 KTS
 Fuel Pump OFF AT 1000 AGL
 Flaps UP
 Enroute Climb 87 KIAS

CRUISE

Landing Light OFF
 Power SET 2300 RPM
 Mixture ADJUST

DESCENT – (within 10 miles)

Radios & Avionics CHECK & SET
 Altimeter/Standby Altimeter SET
 Toe Brakes DEPRESS TO CHECK
 Seat Belts/Harnesses FASTEN/ADJUSTED
 Seat Backs ERECT
 Approach Briefing COMPLETE

BEFORE LANDING

Fuel Selector FULLEST TANK
 Mixture FULL RICH
 Fuel Pump ON
 Landing Light ON

AFTER LANDING

Trims SET
 Flaps RETRACT
 Mixture LEAN 1 INCH
 Fuel Pump OFF
 Strobe Lights AS REQ'D
 Transponder AS REQ'D

BEFORE TAKEOFF - SUBSEQUENT TAKEOFFS

Trims SET
 Flaps SET
 Carburetor Heat OFF
 Mixture SET
 Fuel Pump ON
 Landing / Strobe Lights ON

STOPPING ENGINE

Parking Brake AS REQ'D
 Electrical Switches OFF
 Hobbs Time RECORD
 Fuel Pump OFF
 Emergency Battery OFF
 Avionics Master OFF
 Alternator OFF
 Throttle 1000 RPM
 Left/Right MAG switches GROUND CHECK
 Mixture IDLE CUT-OFF
 Exterior Lights OFF
 LEFT/RIGHT MAG switches OFF
 BATT MASTR switch OFF
 Interior Lights (at night) OFF

LEAVING AIRCRAFT

Parking Brake AS REQ'D
 Flaps VERIFY RETRACT
 Control Wheel SECURED WITH BELTS
 Passenger and Baggage Door LOCKED
 Chocks INSTALLED
 Pitot Cover INSTALLED

QUICK REFERENCES

SPEEDS

Power off Glide 76 KIAS
 V_x... (flaps up) 64 KIAS
 V_y... (flaps up) 76 KIAS
 V_{so} 45 KIAS
 V_s 50 KIAS
 V_{fe} 102 KIAS
 V_o (@2550 LBS) 113 KIAS
 V_o (@1917 LBS) 98 KIAS
 V_{no} 125 KIAS

WEIGHTS

	Normal	Utility
Maximum Ramp	2558 lbs	2138 lbs
Maximum Weight	2550 lbs	2130 lbs
Maximum Baggage	200 lbs	0 lbs

