

## Piper Archer Checklist (IAS-MPH)

5/8/2015

(see POH for amplified procedures, no warranties or guarantees apply)

### Preflight

#### Cabin:

1. Covers, plugs - REMOVE.
2. Windshield - CLEAN.
3. Documents - ARROW.
4. Hobbs & Tach - NOTE.
5. Control lock - REMOVE.
6. Ignition - OFF.
7. Avionics - OFF.
8. Master - ON.
9. Fuel gauges - CHECK.
10. Flaps - DOWN FULL.
11. Lights - CHECK.
12. Pitot heat - CHECK.
13. Stall warning - CHECK.
14. Master - OFF.
15. ELT - AUTO.

#### Right Wing:

1. Flap, aileron - CHECK.
2. Wing tip, leading edge - CHECK.
3. Tie-down, chock - REMOVE.
4. Tire, brakes, strut - CHECK.
5. Fuel tank vent - CHECK.
6. Wing vent - DRAIN.
7. Fuel level - CHECK VISUALLY.
8. Fuel cap - SECURE.

#### Nose:

1. Gas, oil leaks on ground?
2. Oil level - 6 TO 8 QUARTS.
3. Right cowling - SECURE.
4. Alternator belt - CHECK.
5. Landing light - CHECK.
6. Prop, spinner - CHECK.
7. Air filter - CHECK.
8. Tire, strut, linkage - CHECK.
9. Brake fluid - CHECK.
10. Left cowling - SECURE.
11. Fuel strainer - DRAIN, SWITCH TANKS, DRAIN.
12. Static port - CHECK.
13. Pitot - CHECK.

Left Wing: as right wing.

#### Tail:

1. Antennas - CHECK.
2. Left-side fuselage - CHECK.
3. Elevator, rudder, trim - CHECK.
4. Tail tie-down - REMOVE.
5. Right-side fuselage - CHECK.
6. Baggage door - CLOSE.

### Startup

1. Seats, belts - SECURE.
2. Passenger briefing - COMPLETE.
3. Charts - ARRANGE.
4. Circuit breakers - CHECK.
5. Beacon - ON.
6. Nav lights - AS REQUIRED.
7. Avionics - OFF.
8. Brakes - HOLD.
9. Fuel valve - PROPER TANK.
10. Mixture - RICH.
11. Carb heat - OFF.
12. Master - ON.
13. Fuel pump - ON.
14. Prime - AS REQUIRED.
15. Throttle - ¼ INCH OPEN.
16. Prop area - VISUALLY CLEAR.
17. Landing light - FLASH IF DARK.
18. Yell CLEAR.
19. Ignition - START.
20. Throttle - 1000.
21. Oil pressure - CHECK.
22. Ammeter - CHECK.
23. Fuel pump - OFF.
24. Flaps - UP.
25. Radios - ON and CHECK.
26. 121.5 MHz - MONITOR FOR ELT.
27. Transponder - STANDBY.
28. Circuit breakers - CHECK.
29. Flight instruments - SET.
30. Parking brake - RELEASE.
31. Brakes - TEST.

### Shutdown

1. Parking brake - SET.
2. 121.5 MHz - MONITOR FOR ELT.
3. Avionics - OFF.
4. Lights, except beacon - OFF.
5. Fuel pump - OFF.
6. Mixture - OFF.
7. Throttle - OFF.
8. Ignition - OFF.
9. Master - OFF.
10. Hobbs & Tach - NOTE.
11. Seat belts - SECURE.
12. Control locks - INSTALL.
13. Tie-downs - SECURE.
14. Covers, plugs - INSTALL.
15. Prop - VERTICAL.
16. CLOSE FLIGHT PLAN.

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### Before Takeoff

1. Nose gear - STRAIGHT.
2. Brakes - HOLD.
3. Throttle - 1000.
4. Flight controls - FREE, CORRECT.
5. Elevator trim - TAKEOFF.
6. Rudder trim - NEUTRAL.
7. Flight instruments - SET.
8. Fuel valve - PROPER TANK.
9. Mixture - RICH.
10. Primer - LOCKED.

11. Throttle - 2000.
12. Fuel pump - CHECK, OFF.
13. Engine instruments - CHECK.
14. Ammeter - CHECK.
15. Annunciator panel - CHECK.
16. Mags - CHECK L, R, BOTH, max 175 rpm drop, 50 rpm diff.
17. Carb heat - CHECK DROP.
18. Throttle - IDLE.
19. Carb heat - CHECK DROP.
20. Throttle - 1000.

21. Fuel pump - ON.
22. Autopilot, air conditioner - OFF.
23. Flaps - 0 OR 25 SOFT, SHORT.
24. Carb heat - OFF.
25. Transponder - ALT, 1200.
26. Radio - SET FREQUENCIES.
27. Strobes - AS REQUIRED.
28. Doors, windows - CLOSED.
29. Seats & belts - SECURE.
30. Oil temperature - CHECK.
31. Radio - INTENTIONS.

V Speeds (variable)	IAS-MPH	
Rotate (short field)	V <sub>R</sub>	68 (56)
Best rate climb	V <sub>Y</sub>	87
Best angle climb	V <sub>X</sub>	74
Maneuvering	V <sub>A</sub>	124
Max flap extend	V <sub>FE</sub>	115
Max cruise	V <sub>NO</sub>	140
Never exceed	V <sub>NE</sub>	171
Stall (clean)	V <sub>S</sub>	68
Stall (full flaps)	V <sub>So</sub>	61
Cruise climb		100
Cruise descent		140
Approach		86
Shortest landing		76
Best glide		87

Power settings	RPM	IASMPH
Cruise	2430	125
Approach, flaps up	2000	105
Approach, flaps 10	2100	105
ILS descent, flaps up	1600	105
ILS descent, flaps 10	1700	105
Nonprecision, flaps up	1500	105

### Cruise

1. Throttle - CRUISE.
2. Fuel pump - OFF.
3. Mixture - LEAN.
4. DG - ALIGN.

### Before Landing

1. Fuel pump - ON.
2. Fuel valve - PROPER TANK.
3. Primer - LOCKED.
4. Mixture - RICH.
5. Seats & belts - SECURE.
6. Autopilot, air conditioner - OFF.
7. Landing light - ON.

### After Landing

1. Flaps - UP.
2. Carb heat - OFF.
3. Throttle - 1000.
4. Transponder - STANDBY, 1200.
5. Landing light - OFF.
6. Strobes - OFF.
7. Fuel pump - OFF.
8. Fuel valve - CHANGE IF DESIRED.

### Approach

1. ATIS - COPY.
2. Correct procedure - CHECK.
3. Minimums - VERIFY.
4. Comm freqs - PRESET.
5. Marker beacon - ON AND TEST.
6. ADF - IDENT AND TEST.
7. VORs - IDENT AND TUNE.
8. DME - IDENT.
9. Localizer - IDENT.
10. OBS - SET.
11. FAF to MAP time - ESTIMATE.
12. FAF, stepdowns, doglegs - CHECK.
13. Distances - CHECK.
14. Altitudes - CHECK.
15. Missed approach - CHECK.
16. DG - ALIGN.
17. Before landing checklist - COMPLETE.

### Emergency Descent

1. Trim - BEST GLIDE.
2. FIND A FIELD.
3. Fuel pump - ON.
4. Fuel valve - SWITCH.
5. Mixture - RICH.
6. Throttle - OPEN.
7. Carb heat - ON.
8. Mags - L, R, BOTH.
9. Primer - LOCKED.
10. Radio - 121.5.
11. Transponder - 7700.
12. Mixture - OFF.
13. Throttle - OFF.
14. Fuel valve - OFF.
15. Ignition - OFF.
16. Seats & belts - SECURE.
17. Door - CRACKED OPEN.
18. Flaps - AS REQUIRED.
19. Master - OFF.