

## Piper Arrow II Checklist - KIAS

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

5/6/2015

### 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. Gear - DOWN.
9. Gear override - OFF.
10. Master - ON.
11. Fuel gauges - CHECK.
12. Flaps - DOWN FULL.
13. Lights - CHECK.
14. Pitot heat - CHECK.
15. Stall warning - CHECK.
16. Master - OFF.
17. ELT - AUTO.
18. Charts - ARRANGE.

#### Right Wing:

1. Flap, aileron - CHECK.
2. Wing tip, leading edge - CHECK.
3. Tie-down, chock - REMOVE.
4. Tire - 27 PSI.
5. Gear, switches, lines - CHECK.
6. Brakes - CHECK.
7. Strut - CHECK 2" VISIBLE.
8. Fuel tank vent - CHECK.
9. Wing vent - DRAIN.
10. Fuel level - CHECK VISUALLY.
11. 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.
12. Tire - 30 PSI.
13. Gear, switches, lines - CHECK.
8. Strut - CHECK 2 3/4" VISIBLE.
9. Left cowling - SECURE.
10. Fuel line - DRAIN, SWITCH, DRAIN.
11. Static port - CHECK.
12. Gear mast - CHECK.
13. Pitot - CHECK.

#### Left Wing: as right wing.

#### Tail:

1. Antennas - CLEAN.
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. Circuit breakers - CHECK.
4. Beacon - ON.
5. Nav lights - AS REQUIRED.
6. Avionics - OFF.
7. Autopilot - OFF.
8. Alt induction air - OFF.
9. Standby vacuum - OFF.
10. Alt static air - OFF.
11. Brakes - HOLD.
12. Fuel valve - PROPER TANK.
13. Master - ON.
14. Throttle - 1/2 INCH OPEN.
15. Prop - FULL INCREASE.
16. Fuel pump - ON.
17. Mixture - RICH TO PRIME IF COLD.
18. Mixture - IDLE CUT-OFF.
19. Prop area - VISUALLY CLEAR.
20. Landing light - FLASH IF DARK.
21. Call - CLEAR.
22. Ignition - START.
23. Mixture - RICH.
24. Throttle - 1000.
25. Oil pressure - CHECK.
26. Ammeter - CHECK.
27. Mixture - TAXI.
28. Fuel pump - OFF.
29. JPI - Auto. monitor.
30. Flaps - UP.
31. Radios - ON and CHECK.
32. 121.5 MHz - MONITOR FOR ELT.
33. Transponder - STANDBY.
34. Circuit breakers - CHECK.
35. Flight instruments - SET.
36. Parking brake - RELEASE.
37. Brakes - TEST.

### Shutdown

1. Door seal - Deflate
2. Parking brake - UNLESS MOORED.
3. 121.5 MHz - MONITOR FOR ELT.
4. Avionics - OFF.
5. Lights, except beacon - OFF.
6. Fuel pump - OFF.
7. Magneto ground - CHECK.
8. Mixture - OFF.
9. Prop - FULL INCREASE.
10. Throttle - OFF.
11. Ignition - OFF.
12. Master - OFF.
13. Hobbs & Tach - NOTE.
14. Seat belts - SECURE.
15. Control locks - INSTALL.
16. Tie-downs - SECURE.
17. Covers, plugs - INSTALL.
18. Prop - VERTICAL.
19. 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. Prop - FULL INCREASE.
11. Throttle - 2000.
12. Fuel pump - CHECK, OFF.
13. Engine instruments - CHECK.
14. Ammeter - CHECK.
15. Mags - CHECK L, R, BOTH,  
175 rpm drop, 50 rpm diff.
16. Prop - CYCLE 1-3X, NOT <1500.
17. Fuel pump - ON.
18. Mixture - RICH.
19. Prop - FULL INCREASE.
20. Throttle - 1000.
21. Flaps - 0 OR 25 SOFT, SHORT.
22. Door, window-Latch/Seal.
23. Seats & belts - SECURE.
24. Autopilot - OFF.
25. Radio - SET FREQUENCIES.
26. Oil temperature - CHECK.
27. Strobes - AS REQUIRED.
28. Transponder - ALT, 1200.
29. Radio - INTENTIONS.

### V Speeds

(vary with load, conditions)

	$V_R$	61-70 kts
Rotate	$V_R$	61-70 kts
Best rate climb	$V_Y$	87 kts
Best angle climb	$V_X$	74 kts
Maneuvering	$V_A$	114 kts
Max flap extend	$V_{FE}$	109 kts
Max cruise	$V_{NO}$	148 kts
Never exceed	$V_{NE}$	186 kts
Max gear extend	$V_{LE}$	130 kts
Max gear retract	$V_{LO}$	109 kts
Stall (clean)	$V_S$	62 kts
Stall (full flaps)	$V_{S0}$	56 kts
Cruise climb		96 kts
Approach flaps/gear dwn		78 kts
Shortest landing		70 kts
Best glide		91 kts
Max Crosswind		17 kts

### Power

	mp	tach	pitch	kts
Climb	25	2500	+8	83 kts
Cruise	23	2300	0	122 kts
Descent	17	2400	-5	122 kts
Hold GU	18	2400	+1	96 kts
Hold GD	21	2400	+2	87 kts
ILS	14	2500	-1	91 kts
Nonprec	14	2500	-3	91 kts

### Cruise

1. Fuel pump - OFF.
2. Throttle - CRUISE.
3. Prop - CRUISE.
4. Mixture - LEAN.
5. Trim - SET.
6. DG - RESET.

### Before Landing

1. Fuel valve - PROPER TANK.
2. Fuel pump - ON.
3. Mixture - RICH.
4. Prop - FULL INCREASE.
5. Throttle - APPROACH.
6. Gear - DOWN AND LOCKED.
7. Autopilot - OFF.
8. Landing light - ON.
9. Seats & belts - SECURE.
10. Brakes - CHECK.

### After Landing

1. Flaps - UP.
2. Door seal - Deflate
3. Fuel pump - OFF.
4. Mixture - TAXI.
5. Prop - FULL INCREASE.
6. Throttle - 1000.
7. Strobes - OFF.
8. Landing light - OFF.
9. Transponder - STANDBY, 1200.
10. Fuel valve - CHANGE IF DESIRED.
11. Door-Deflate Seal.

### Emergency Descent

1. Trim - BEST GLIDE.
2. FIND A FIELD.
3. Fuel valve - SWITCH.
4. Fuel pump - ON.
5. Mixture - RICH.
6. Prop - FULL INCREASE.
7. Throttle - OPEN.
8. Alt induction air - ON.
9. Mags - L, R, BOTH.
10. Radio - 121.5.
11. Transponder - 7700.
12. Mixture - OFF.
13. Throttle - OFF.
14. Prop - FULL DECREASE.
15. Fuel pump - OFF.
16. Fuel valve - OFF.
17. Ignition - OFF.
18. Gear - DOWN AND LOCKED.
19. Seats & belts - SECURE.
20. Door - CRACKED OPEN.
21. Flaps - AS REQUIRED.
22. Master - OFF.

### Engine Temperatures-JPI

1. EGT ~ 1450 Max
2. LEAN FIND ~ then 75-100 deg. ROP
3. CYL ~ 400 Max

Full Fuel Payload 706 lbs