

CHECK LIST

PIPER PA28R-200 CHEROKEE ARROW 2

PILOT'S NAME

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PRELIMINARY AND EXTERNAL

COCKPIT

1. Open Door, Seats back, Inspect Harnesses
2. Remove Control lock and covers
3. Check Switches OFF, Key OUT, Radio/nav aids OFF
4. Undercarriage lever in DOWN position
5. Select Flaps fully down
6. Master Switch ON
7. Fuel Cock – Select tank with lowest contents
8. Check rotating beacon, pressure head heater and stall warmer horn/light
9. Master Switch OFF, p/head heater OFF, Beacon ON
10. First aid kit and Fire Extinguisher in position and charged
11. Cert. of Maintenance VALID, wt. and balance checked

STARBOARD MAINPLANE

1. Flap – Linkage, Surfaces
2. Aileron – Linkage, Surfaces, full free travel
3. Wing tip and navigation light
4. Wing – Leading edge condition, surfaces upper and lower
5. Fuel filler cap – secure after visual check of contents
6. Fuel filler drain (first flight of the day)
7. Undercarriage – Oleo extension, tyre condition and creep marks, disc brake assembly. Wheel bay clear. Retraction mechanism undamaged, no hydraulic leaks.

PRELIMINARY AND EXTERNAL (cont)

FRONT FUSELAGE & ENGINE

1. Windscreen condition CLEAN, thermometer probe undamaged
2. Check oil contents (minimum 6 US quarts)
3. Engine inspection panel closed and secure
4. Starboard side of cowling – fasteners secure
5. Nosewheel – Oleo extension, landing light, tyre condition, torque links, wheel bay clear, retraction mechanism and bay door undamaged, no hydraulic leaks
6. Propeller – inspect for damage
7. Air intakes and filter clear
8. Port side cowling – fasteners secure
9. Fuel filter drain (first flight of the day)
10. Pitot head for automatic u/c lowering – check clear

PORT MAINPLANE

1. Undercarriage
2. Fuel filter drain (first flight of the day)
3. Pressure head – Check pitot/static holes clear
4. Fuel filler cap – secure after visual check of contents
5. Wing – leading edge condition, surfaces upper and lower
6. Wing tip and navigation light
7. Aileron
8. Flap

PORT REAR FUSELAGE

1. Fuselage skin
2. Fin – skin
3. Stabilator – full free travel, correct sense of anti-servo tab movement, surfaces upper and lower
4. Rudder – surfaces, do NOT move
5. Beacon, nav. light and aerals undamaged

STARBOARD REAR FUSELAGE

1. Stabilator
2. Fin
3. Fuselage skin
4. Baggage bay door – CLOSED AND LOCKED
5. Check tension of ADF sensing aerial

INTERNAL AND STARTING

INTERNAL

1. Seat - Adjusted and LOCKED
2. Hatches, Harness - CLOSED, SECURE
3. Parking Brake - ON
4. Heater, Air Vents - CLOSED
5. Controls - Full free movement, correct sense
6. Trims - Exercise, set to NUETRAL
7. Flaps UP - Symmetrical retraction
8. Instruments - Glasses unbroken, function check
9. Circuit Breakers - ALL IN
10. Master Switch ON, Beacon ON, Key IN, Magnetos OFF
11. Fuel Cock - ON
12. Throttle - Full free movement, set ½ “ open
13. Propeller control - Full free movement, set MAX rpm
14. Mixture control - Full free movement, set to ICO
15. Alternate air control - Full free movement, set to OFF
16. Fuel Pump - ON, check pressure in green
17. Cold Start only - Mixture control towards Full Rich until fuel flow indicated (engine primed), return lever to ICO
18. Hot start only - Leave Mixture control in ICO
19. Lookout and Call - “Clear Prop Contact”
20. Magneto switches to BOTH, press in key to operate starter
21. Mixture control - To Full Rich when engine starts
22. set 800 r.p.m.
23. Check “Starter engaged” light OUT
24. Check oil pressure rising to green within 30 seconds
25. Set 1300 r.p.m.
26. Suction - More than 3 inches of mercury
27. Radio and Nav aids - ON, tuned to speaker or phones
28. Radio Aids Check
29. Alternator - Showing positive charge
30. Flight Instruments - Checked and set
31. Magnetos - Check for DEAD CUT
32. RT - Call for taxi clearance/instructions
33. Set ALTIMETER as required

Engine Start when flooded

1. Throttle - Full OPEN
2. Fuel, pump - OFF
3. Mixture control - To cut OFF position
4. Operate starter - When engine fires, mixture to RICH, retard throttle

TAXYING, POWER AND PRE-TAKE OFF

TAXYING CHECKS

1. Brakes - Test gently
- When in a clear area, lookout, and if safe:
1. Flight instruments - Check for correct function during gentle turns both ways
- Rudder/nosewheel steering - Check for full deflection in correct sense

POWER CHECKS

2. Face aircraft into wind
3. Brakes - HARD ON, set 1300 r.p.m.
4. Fuel selector - Change tanks
5. Temps. and Pressures - Check in Green
6. Magnetos - Check for "dead cut"
7. Throttle (clear behind) - Set 2000 r.p.m.
8. Alternate air - Select ON, reselect OFF, negligible change in manifold pressure
9. Magnetos, select individually - Max. drop each mag. 175 r.p.m., max. difference 50 r.p.m.
10. Temps. and Pressures - Check in Green
11. Suction - 5 inches Mercury plus/minus 1 inch
12. Propeller control - Cycle down to 1500 r.p.m. (3 times if cold), return to max r.p.m.
13. Fuel Pump - Select OFF, check pressure, reselect ON, check pressure
14. Slow running - 600 to 800 r.p.m.
15. Throttle - Reset 1300 r.p.m., check ammeter

PRE-TAKE OFF CHECKS – VITAL ACTIONS

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|---|-----------------------|-------------------------------|
| T | Trims | - Elevator and Rudder NEUTRAL |
| A | Alternate air control | - OFF |
| T | Throttle friction nut | - FINGER TIGHT |
| M | Mixture | - RICH |
| P | Propeller | - MAX RPM |
| M | Magnetos | - On BOTH |
| F | Fuel | - ON, Correct tank selected |
| F | Fuel pump | - ON, check pressure |
| F | Flaps | - Check fully retracted |
| G | Gauges | - Ts, Ps, Suction in GREEN |
| G | Gyros | - SET |
| H | Hatches | - SECURE |
| H | Harnesses | - TIGHT |
| A | Autopilot | - OFF |
| A | Air Conditioning | - OFF |
| C | Controls | - FULL and FREE travel |

TAKE OFF, APPROACH AND PRE-LANDING CHECKS

TAKE-OFF CHECKS

1. Check Ts, Ps and RPM in Green - Airspeed increasing

AFTER TAKE-OFF CHECKS

1. Undercarriage - UP, when safely climbing
2. Flaps - Check retracted
3. Pitot heat - As required
4. Fuel Pump - Switch off when clear of circuit and above 1000 ft. agl.

CRUISE CHECKS

- L Location - Confirm position
- I Instruments - Check airspeed, altitude and synchronise HI with compass
- F Fuel - Check contents, change tanks if necessary for fuel balancing, check fuel pressure
- E Engine - Ts, Ps, check for induction icing, EGT

CIRCUIT JOINING

- F Fuel - Select fuller tank, fuel pump ON, check pressure
- R Radio - Select correct frequencies, volume settings and identify nav aids
- E Engine - Ts, Ps, mixture to RICH
- A Altimeter - Check QNH
- R RT Call - Request joining instructions

PRE-LANDING CHECKS

- U Undercarriage - DOWN, check 3 greens
- B Brakes - Pressure checked, handle OFF
- M Mixture - Fully RICH
- P Propeller - Set 2600 r.p.m.
- F Fuel - ON, fuel pump ON, contents of tank selected sufficient for approach and overshoot
- F Flaps - Set as required
- H Hatches./Harnesses - LOCKED/SECURE
- A Autopilot/Air Conditioning - OFF

AFTER LANDING AND RUN DOWN

AFTER LANDING CHECKS

1. Flaps - UP
2. Trims - NEUTRAL
3. Fuel pump - OFF
4. Switch OFF
 - Unnecessary radios/navaids
 - Landing lights
 - Navigation lights
 - Pitot heat

RUN DOWN CHECKS

1. Brakes - ON
2. 1300 r.p.m. - Check mags. for dead cut
3. Beacon - Leave in ON position
4. Radio/navaids - All OFF, double check
5. Fuel
 - Recheck electric pump OFF, check fuel contents
6. Ts, Ps, suction - Within limits
7. Mixture - Lean to cut-off

WHEN ENGINE HAS STOPPED

1. All electrical equipment - OFF, except beacon
 2. Magnetos - OFF, Key OUT
 3. Master Switch - OFF
 4. Fuel - OFF
 5. Control lock - IN and SECURE
 6. Times and Tech. log - Complete entries
 7. Harnesses - Tidy
 8. Cockpit and P/Head covers - Replace
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