

Cessna 172 Checklist

5/6/2015

(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.
11. Lights - CHECK (AS REQ'D).
12. Pitot heat - CHECK (AS REQ'D).
13. Master - OFF.
14. ELT - AUTO.

Tail:

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

Right Wing:

1. Flap, Aileron - CHECK.
2. Wing tip, Nav lights/strobe - CHECK.
3. Leading edge, Air inlet - CHECK.
4. Tie-down, chock - REMOVE.
5. Tire, Brakes, Strut - CHECK.
6. Fuel tank sump - DRAIN.
7. Fuel level - CHECK VISUALLY.
8. Fuel cap and vent - SECURE & CHECK.
9. Cabin air inlet - CHECK.

Nose:

1. Gas, oil leaks on ground?
2. Belly fuel sump & Strainer - DRAIN.
3. Fuel cap - SECURE.
4. Oil level - 6 TO 8 QUARTS.
5. Cowling - SECURE.
6. Alternator belt - CHECK.
7. Prop, spinner - CHECK.
8. Air filter - CHECK.
9. Tire, Strut, Linkage - CHECK.
10. Stall warning - CHECK.
11. Static port - CHECK.
12. Pitot - CHECK.
13. Fuel tank vent - CHECK.

Left Wing:

1. Fuel level - CHECK VISUALLY.
2. Fuel cap - SECURE.
3. Air inlet, Leading edge, Stall warning, Landing lights - CHECK.
4. Wing tip, Nav lights/Strobe - CHECK.
5. Aileron, Flap - CHECK.
6. Tie-down, Chock - REMOVE.
7. Fuel tank vent - CHECK.
8. Tire, Brakes, Strut - CHECK.
9. Fuel tank sump - DRAIN.

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 - CHECK AND HOLD.
9. Fuel valve - BOTH.
10. Mixture - RICH.
11. Carb heat - OFF.
12. Prime - AS REQUIRED.
13. Master - ON.
14. Throttle - 1/8 INCH OPEN.
15. Prop area - VISUALLY CLEAR.
16. Landing light - FLASH IF DARK.
17. Yell CLEAR.
18. Ignition - START.
19. Throttle - 1000.
20. Oil pressure - CHECK.
21. Ammeter - CHECK.
22. Flaps - UP.
23. Radios - ON and CHECK.
24. 121.5 MHz - MONITOR FOR ELT.
25. Transponder - STANDBY.
26. Circuit breakers - CHECK.
27. Flight instruments - SET.
28. Parking brake - RELEASE.
29. Brakes - TEST.

Shutdown

1. 121.5 MHz - MONITOR FOR ELT.
2. Avionics - OFF.
3. Lights, except beacon - OFF.
4. Mixture - OFF.
5. Throttle - OFF.
6. Ignition - OFF.
7. Master - OFF.
8. Hobbs & Tach - NOTE.
9. Seat belts - SECURE.
10. Control locks - INSTALL.
11. Tie-downs - secure.
12. Covers, plugs - INSTALL.
13. Prop - VERTICAL.
14. 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. Flight instruments - SET.
7. Fuel valve - BOTH.
8. Mixture - RICH.
9. Primer - LOCKED.
10. Throttle - 1700.
11. Engine instruments - CHECK.
12. Ammeter - CHECK.
13. Suction - CHECK.
14. Mags. - CHECK L, R, BOTH, max 125 rpm drop, 50 rpm differ.
15. Carb. heat - CHECK DROP.
16. Throttle - IDLE.
17. Carb. heat - CHECK DROP.
18. Throttle - 1000.
19. Flaps - 0.
20. Carb heat - OFF.
21. Transponder - ALT, 1200.
22. Radio - SET FREQUENCIES.
23. Strobes - AS REQUIRED.
24. Doors, windows - CLOSED.
25. Seats & belts - SECURE.
26. Oil temp. & press. - CHECK.
27. Radio - INTENTIONS.

V Speeds (variable)

	V	KIAS
Rotate	V_R	55
Best rate climb	V_Y	78
Best angle climb	V_X	64
Maneuvering	V_A	80 - 97
Max flap extend	V_{FE}	85
Max cruise	V_{NO}	128
Never exceed	V_{NE}	160
Stall (clean)	V_S	42 (50)
Stall (full flaps)	V_{So}	36 (44)
Cruise climb		80 - 90
Cruise descent		90
Approach		60
Shortest landing		55
Best glide		65

Power settings

	RPM	KIAS
Cruise	2350	98
Approach, flaps up	2050	82
Approach, flaps 10	2050	70
ILS descent, flaps up	1600	80
ILS descent, flaps 10	1600	65
Non-precision, flaps up	1500	80

Cruise

1. Throttle - CRUISE.
2. Mixture - LEAN.
3. DG - ALIGN.

Before Landing

1. Seats & belts - SECURE.
2. Landing light - ON.
3. Fuel valve - BOTH.
4. Mixture - RICH.
5. Primer - LOCKED.
6. Carb heat - ON.

After Landing

1. Flaps - UP.
2. Carb heat - OFF.
3. Throttle - 1000.
4. Transponder - STANDBY, 1200.
5. Landing light - OFF.
6. Strobes - OFF.

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, step-downs, 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 valve - BOTH.
4. Mixture - RICH.
5. Throttle - OPEN.
6. Carb heat - ON.
7. Mags - L, R, BOTH.
8. Primer - LOCKED.
9. Radio - 121.5.
10. Transponder - 7700.
11. Mixture - OFF.
12. Throttle - OFF.
13. Fuel valve - OFF.
14. Ignition - OFF.
15. Seats & belts - SECURE.
16. Door - CRACKED OPEN.
17. Flaps - AS REQUIRED.
18. Master - OFF.