

N61WT Cessna 172SP Checklist

Preflight

Cabin:

1. Covers, Plugs, Chocks – Remove
2. Documents - ARROW
3. Weight and Balance – Check
4. Parking Brake – Set
5. Control Lock – Remove
6. Ignition – Off
7. Avionics – Off
8. Master [Alt & Bat] – On
9. Flaps - Lower
10. PDF – Verify On
11. Fuel Quantity – Check
12. Low Fuel Annunciators – Verify Off
13. Oil Pressure Annunciator – Shown
14. Low Vacuum Annunciator – Shown
15. Avionics Bus 1 – On
16. Forward Fan – Verify On
17. Avionics Bus 1 – Off
18. Avionics Bus 2 – On
19. Aft Fan – Verify On
20. Avionics Bus 2 – Off
21. Pitot Tube – On/Check/Off
22. Low Volts Annunciator – Shown
23. Master Switches – Off
24. Elevator Trim – Set for T/O
25. Fuel Selector Valve – Both
26. Alt Static Air – Off
27. Fire Extinguisher - Check

Empennage:

1. Baggage Door – Check
2. Antennas – Check
3. Left Side Fuselage – Check

Tail:

1. Elevator, Rudder, Trim-Check
2. Tie Down – Remove
3. Right Side Fuselage – Check

Right Wing:

1. Flap, Aileron – Check
2. Control Surfaces, Lights – Check
3. Leading Edge, Air inlet – Check
4. Tie Down – Remove
5. Tire, Brakes, Strut – Check
6. Fuel Tank Sumps – Drain
7. Fuel Level - Check Visually
8. Fuel Cap – Secure
9. Lights - Check

Nose:

1. Gas, Oil leaks – Check
2. Oil Level – Check 6-8qts
3. Belly Sump - Drain
4. Prop and Spinner – Check
5. Alternator Belt - Check
6. Air Inlets and Filters – Check
7. Tire, Strut – Check
8. Static Port – Check

Left Wing:

1. Flap, Aileron – Check
2. Control Surfaces, Lights – Check
3. Leading Edge, Air inlet – Check
4. Tie Down – Remove
5. Tire, Brakes, Strut – Check
6. Fuel Tank Sumps – Drain
7. Fuel Level - Check Visually
8. Fuel Cap – Secure
9. Pitot Tube, Fuel Vent – Check
10. Stall Warning Opening – Check
11. Lights – Check

Startup:

1. Preflight Inspection – Complete
2. Seat, Belts & Harnesses – Secure
3. Passenger Brief – Complete

4. Charts, ForeFlight – Current
5. Circuit Breakers – Check
6. Fuel Selector – Both
7. Beacon– On
8. Avionics – Off
9. Brakes – Check
10. Parking Brake – Set
11. Fuel Shut Off Valve – Full In
12. Throttle – ¼” Open
13. Mixture – Off
14. Standby Bat – Test 20 secs/Arm
15. Engine Systems – No RED X's
16. Bus E Volts – 24 Volts Minimum
17. M Bus Volts – 1.5 Volts or Less
18. STBY Bat Annunciator – Shown
19. Prop Area– “CLEAR!”
20. Master Switches– On
21. Fuel Pump – On
22. Mixture Rich -Fuel Flow/then Cutoff
23. Fuel Pump – Off
24. Ignition – Start
25. Mixture – Advance Smoothly to Rich
26. Beacon, Position, Taxi Lights – On
27. Oil Pressure – Check
28. Amps [M Batt & Batt S] – Shown +
29. Low Volts Annunciator – Not Shown
30. Flaps – UP
31. Avionics – On
32. Radio, Comm 1 set and Check – “Radio Check”
33. Comm 2 set 121.5 – monitor
34. Transponder – ALT
35. Circuit Breakers – Check
36. Flight Instruments – Set

Taxi:

1/2023

- Parking Brake – Release
Brakes – Check
Taxi/Landing Light – On
Mixture – Lean as req.

RunUp:

1. Parking Brake - Set
2. Seats, Doors – Secure
3. Flight Controls – Free and Correct
4. Elevator Trim – Set for T/O
5. Flight Instruments – No Red X's
6. Altimeters [PDF and Standby] – Set
7. Altitude Select – Set
8. Standby Instruments – Check
9. Fuel Quantity – Check
10. Mixture – Rich
11. Fuel Selector – Both
12. Auto Pilot – Test, HDG +/- ,then Off
13. Electronic Trim – Test, Set for T/O
14. Throttle – 1800
15. Mag check – Drop less 150, 50 diff
16. Vac & Engine Instruments – Check
17. Ammeters and Volts – Check
18. Annunciators – No Red X's
19. Throttle – Idle, then 1000
20. Oil Temp and Pressure – Check
21. Anti-Collision/Strobes – On
22. Landing Light – On
23. Comms, Navs, CDI, XPDR – set
24. Parking Brake - Release
25. Radio – Intentions

Normal Takeoff:

1. Nose Wheel - Straight
2. Flaps – Up or 10° (preferred)
3. Engine Instruments - Check
4. Carb Heat – Off
5. Throttle – Full
6. Mixture - Rich
7. Rotate – 55 Kts

Enroute Climb:

1. Airspeed – 70-85kts
2. Throttle – Full
3. Mixture – Full (adjust over 3000')

Cruise:

1. Throttle – 2100-2700 (no more than 75%)
2. Trim – Adjust
3. Mixture – Lean as req

Before Landing:

1. Seat Belts – Secure
2. Landing, Taxi Lights - On
3. Fuel Selector - Both
4. Mixture – Rich
5. Auto Pilot – Off
6. Flaps 10° (below 110kts)
7. Flaps Full as req 85kts or ↓
8. Pattern Approach - 80-70kts
9. Landing (over #'s) - 65kts

Balked Landing-Go Around:

1. Throttle – Full
2. Flaps retract to 20°
3. Climb – 60kts
4. Flaps 10°, then up full slowly
5. Airspeed – 65kts

After Landing:

1. Flaps – Up
2. Throttle – 1000
3. Transponder – As req.

Shutdown:

1. 121.5 – Monitor
2. Avionics – Off

3. Lights, except Beacon – Off
4. Throttle – Idle
5. Mixture – Cutoff
6. Ignition – Off, Key Out
7. Master – Off
8. Hobbs & Tach – Record
9. STBY BATT - Off
10. Seat Belts – Secure
11. Control Lock – Install
12. Tie Downs – Secure
13. Covers, Plugs, Chocks -Install
14. Prop – Vertical

V Speeds:

Vr - Rotate	55Kts
Vy - Best Rate of Climb	75Kts
Vx - Best Angle of Climb	60Kts
Va – Maneuvering	90-100Kts
Vfe – Max Flap Ext	85Kts
Vno – Max Cruise	130Kts
Vne – Never Exceed	160Kts
Vs – Stall (clean)	53Kts
Vso – Stall (full flaps)	48Kts
Best Glide	68kts

EMERGENCY PROCEDURES ---**ENGINE FAILURE - T/O ROLL:**

1. Throttle – Idle
2. Brakes – Apply
3. Flaps – Retract
4. Mixture – Cut Off
5. Ignition – Off
6. Master - Off

ENGINE FAILURE AFTER T/O:

1. Airspeed – 70Kts (Flaps up)
65Kts (Flaps 10°)
2. Mixture – Off
3. Fuel Selector – Off
4. Ignition – Off
5. Flaps – as req
6. Master – Off
7. Emergency Landing – Execute

ENGINE FAILURE DURING FLIGHT:

1. Airspeed – 68kts
2. Fuel Shutoff Valve - ON
3. Fuel Selector – Both
4. Fuel Pump - ON
5. Mixture – Rich
6. Ignition – Both, or Start
7. Fuel Pump - Off

EMERG LANDING, NO POWER:

1. Airspeed – 70Kts (Flaps up)
65Kts (Flaps 10°)
2. Landing site – Identify
3. Mixture – Off, Fuel Selc – Off
4. Ignition – Off
5. Flaps – A/R (recommend Full)
6. Standby BATT & Master – Off
7. Doors – Unlatched before land
8. Touchdown – Slightly Tail Low
9. Brake Heavily

EMERG LANDING W/POWER:

1. Airspeed – 65Kts
2. Flaps – Flaps 20°
3. Landing Area – Select
4. Flaps Full on Approach
5. Standby BATT & Master – Off
6. Doors –Unlatched before land
7. Touchdown –Slightly Tail Low
8. Mixture – Off
9. Ignition - Off
10. Brake – Apply Heavily

DITCHING:

1. Radio – MAYDAY-121.5
2. Heavy Objects – Jettison
3. Flaps - 20° - Full
4. Power -65kts
5. Approach – Into the wind
6. Doors –Unlatched,
7. Cushion Face, ELT Activate

ENGINE FIRE DURING STARTUP:

1. Crank –continue until fire out

1. If Engine Start –Power–1800 then Power - off
2. If No Start – Throttle – Full
4. Mixture – Cutoff
5. Ignition- Crank– Continue
6. Fuel Shutoff & Pump -OFF
7. Ignition - Off
8. Standby BATT & Master- Off
9. Fire Extinguisher - Apply

ENGINE FIRE IN FLIGHT:

1. Mixture – Cutoff
2. Fuel Selector – Off
3. Master – Off
4. Cabin Vents - Open
5. Cabin Heat/Air – Off
6. Airspeed – Emerg Descent - 100kts
7. Emergency Landing – Execute

ELECTRICAL FIRE IN FLIGHT:

1. STBY BATT & Master – Off
2. Vents –Closed, Heat/Air- Off
3. Fire Extinguisher – Apply
4. Vents – Open when fire is out
5. Avionics - Off
6. All Elect (except Ignition) –Off
7. Vents – Open when fire out
8. Circuit Brks –Check –no reset
9. Master –On,STBY BATT- Arm
10. Avionics – On incrementally
11. Land - ASAP

CABIN FIRE:

1. STBY BATT & Master – Off
2. Vents – Close
3. Cabin Heat/Air – Off
4. Fire Extinguisher – Apply
5. If Fire Out – Vents Open
6. Land – ASAP

WING FIRE:

1. Land/Taxi/Nav / Pitot-Off
2. Side Slip – Away from Flames
3. Land – ASAP