

N738NY Cessna 172N Checklist

Preflight

Cabin:

1. Covers, Plugs – Remove
2. Documents – ARROW
3. Hobbs & Tach – Record
4. Control Lock – Remove
5. Fire Extinguisher - Check
6. Ignition – Off
7. Avionics – Off
8. Master – On
9. Fuel Gauges – Note
10. Flaps – Down
11. Lights – Check
12. Pitot Heat – Check
13. Master – Off
14. ELT – Auto

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. Wing Surfaces, Lights – Check
3. Leading Edge, Air inlet – Check
4. Tie Down – Remove
5. Tire, Brakes, Strut – Check
6. Fuel Tank Sump – Drain
7. Fuel Level - Check Visually
8. Fuel Cap – Secure

Nose:

1. Gas, Oil leaks – Check
2. Oil Level – Check 5-6qts

3. Strainer Knob – drain 4 secs, secure
4. Prop and Spinner – Check
5. Alternator Belt - Check
6. Air Filter – Check
7. Tire, Strut – Check
8. Carb Air Filter – Check
9. Static Port – Check
10. Landing Light - Check

Left Wing:

1. Flap, Aileron – Check
2. Wing Surfaces, Lights – Check
3. Leading Edge, Air inlet – Check
4. Tie Down – Remove
5. Tire, Brakes, Strut – Check
6. Fuel Tank Sump – Drain
7. Fuel Level - Check Visually
8. Fuel Cap – Secure
9. Pitot Tube, Fuel Vent – Check
10. Stall Warning Opening - 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, Position – On
8. Avionics – Off
9. Brakes – Check
10. Parking Brake - Set
11. Mixture – Rich
12. Carb Heat – Off
13. Prime – 2 to 6 strokes, none if warm
14. Master – On
15. Throttle – 1/8"
16. Prop Area – "CLEAR!"

17. Landing Light – Flash if Dark
18. Ignition – Start
19. Throttle – 1000
20. Oil Pressure – Check
21. Ammeter – Check [add load]
22. Flaps – UP
23. Avionics – On
24. Radio, Comm 1 set and Check – "Radio Check"
25. Comm 2 set 121.5 – monitor
26. Transponder – ALT
27. Circuit Breakers – Check
28. Flight Instruments – Set
29. Taxi/Landing Lights - On
30. Parking Brake – Release
31. Brakes – Check

Taxi:

1. Taxi/Landing Light – On
2. Mixture – Lean as req'd
3. Attitude Indicator – Verify Op
4. Turn Coordinator – Verify Op
5. Heading Indicator –Verify Op
6. Compass – Verify Op

RunUp:

1. Taxi/Landing Light –Off
2. Brakes – Hold
3. Parking Brake – Set
4. Throttle – 1000
5. Flight Controls – Free and Correct
6. Elevator Trim – Set for T/O
7. Flight Instruments – Set
8. Fuel Valve – Both
9. Primer - Locked
10. Radios – Set
11. Mixture – Rich
12. Throttle – 1700
13. Engine Instruments – Check
14. Ammeter – Check
15. Ignition, Check L, R, Both
Max drop both 125,50diff
16. Carb Heat – Check Drop
17. Throttle – Idle
18. Carb Heat – Check Drop

19. Throttle – 1000
20. Carb Heat – Off
21. Mixture – Rich
22. Transponder – ALT, 1200
23. Flaps – Up for Normal T/O
24. Radios – Set Frequencies
25. Doors, Windows – Secure
26. Fuel Quantity - Check
27. Oil Temp and Press – Check
28. Anti-Collision/Strobes – On
29. Landing Light - On
30. Radio – Intentions

Normal Takeoff:

1. Nose Wheel - Straight
2. Flaps – Up
3. Engine Instruments - Check
4. Carb Heat – Off
5. Throttle – Full
6. Rotate – 55Kts

Enroute Climb:

1. Airspeed – 70-90kts
2. Throttle – Full
3. Mixture – Full (adjust over 3000')

Cruise:

1. Throttle – 2200-2700 (no more than 75%)
2. Trim – Adjust
3. Mixture – Lean as req'd

Before Landing:

1. Seat Belts – Secure
2. Landing Light - On
3. Fuel Selector - Both
4. Primer – Locked
5. Mixture – Rich
6. Carb Heat – on
7. Pattern Approach - 80-70kts
8. Landing (over #'s) - 65kts

Balked Landing-Go Around:

1. Throttle – Full
2. Carb Heat – Off
3. Flaps retract 20°, Then up full slowly
4. Climb – 60kts

After Landing:

1. Flaps – Up
2. Carb Heat – Off
3. Throttle – 1000
4. Transponder – As req'd
5. Taxi/Landing Light – On

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. Seat Belts – Secure
10. Control Lock – Install
11. Tie Downs – Secure
12. Covers, Plugs, Chocks - Install
13. Prop – Vertical

V Speeds:

Vr - Rotate	55Kts
Vy - Best Rate of Climb	75Kts
Vx - Best Angle of Climb	60Kts
Va – Maneuvering	80-95Kts
Vfe – Max Flap Ext	85Kts
Vno – Max Cruise	128Kts
Vne – Never Exceed	160Kts
Vs – Stall (clean)	50Kts
Vso – Stall (full flaps)	44Kts
Best Glide	65kts

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EMERGENCY PROCEDURES

ENGINE FAILURE DURING T/O RUN:

1. Throttle – Idle
2. Brakes – Apply
3. Flaps – Retract
4. Mixture – Cutoff
5. Ignition – Off

ENGINE FAILURE AFTER T/O:

1. Airspeed – 65Kts (Flaps up)
60Kts (Flaps dn)
2. Mixture – Cutoff
3. Fuel Selector – Off
4. Ignition – Off
5. Flaps – as req'd
6. Master – Off
7. Emergency Landing – Execute

ENGINE FAILURE DURING FLIGHT:

1. Airspeed – 65kts
2. Carb Heat – On
3. Fuel Selector – Both
4. Mixture – Rich
5. Ignition – Both, or Start
6. Primer – Locked

EMERGENCY LANDING, NO POWER:

1. Airspeed – 65Kts (Flaps up)
60Kts (Flaps dn)
2. Landing site – Identify
3. Radio – MAYDAY-121.5
4. Mixture – Off, Fuel Selector – Off
6. Ignition – Off
7. Flaps – as req
8. Master – Off
9. Doors – Unlatched
10. Touchdown – Slightly Tail Low
11. Brake – Apply Heavily

EMERGENCY LANDING W/POWER:

1. Flaps – As req.
2. Airspeed – 60Kts
3. Landing Area – Select
4. Radio – MAYDAY-121.5
5. Avionics – Off
6. Master – Off
7. Doors – Unlatched
8. Touchdown – Slightly Tail Low
9. Ignition - Off
10. Brake – Apply Heavily

DITCHING:

1. Radio – MAYDAY-121.5
2. Heavy Objects – Jettison
3. Flaps - full
4. Power -65kts
5. Approach – Into the wind
6. Doors – Unlatched

ENGINE FIRE DURING STARTUP:

1. Cranking – continue until fire out
2. If Engine Start –Power–1700 then Power - off
3. If Engine Fails to Start – Throttle – Full
4. Mixture – Cutoff
5. Cranking – Continue
6. Fuel Selector – Off
7. Master – Off
8. Ignition - Off
9. Fire Extinguisher - Apply

SPINS;

- P**-Power idle
- A**-Ailerons neutral
- R**-Rudder opposite spin
- E**-Elevator full forward

ENGINE FIRE IN FLIGHT:

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

ELECTRICAL FIRE IN FLIGHT:

1. Master – Off
2. Avionics – Off
3. All Electrical (except Ignition) –Off
4. Vents – Closed
5. Fire Extinguisher – Apply
6. Vents – Open when fire is out
7. Master – On
8. Circuit Breakers – Check – no reset
9. Avionics – On incrementally
10. Vents – Open
11. Land - ASAP

CABIN FIRE:

1. Master Off
2. Vents – Close
3. Fire Extinguisher - Apply
4. Land – ASAP

WING FIRE:

1. Nav Lights – off
2. Pitot Switch – Off
3. Side Slip – Away from Flames
4. Land - ASAP

January, 2023