

CESSNA 172 – N738NX CHECKLIST

Verbally verify each item & completion of sections.

PRE-FLIGHT INSPECTION

PAVE / IMSAFE / W & B – COMPLETE

Cabin / Electrical

1. Documents – **A.R.R.O.W.**
2. Control Lock & Pitot Cover – **REMOVE**
3. Ignition Switch – **OFF**
4. Avionics Master – **OFF**
5. Battery – **ON**
6. Flaps – **FULL DOWN**
7. Fuel Gauges / Electric Gyro – **CHECK**
8. Lights & Pitot Heat – **CHECK**
9. Battery – **OFF**

Empennage

1. Empennage Surface – **CHECK**
2. Horizontal Stabilizer – **SECURE**
3. Elevator & Trim Tab – **FREE & SECURE**
4. Rudder – **FREE & SECURE**
5. Tail Tie-down – **DISCONNECT**
6. Antennas – **CHECK CONDITION**

Right Wing

1. Fuel Tank Sump – **SAMPLE & CHECK**
2. Tire – **CHECK TREAD & PRESSURE**
3. Brake – **CHECK FOR LEAKS**
4. Flap – **CHECK**
5. Aileron – **FREE & SECURE**
6. Wingtip / Leading Edge – **CHECK**
7. Wing Tie-Down – **DISCONNECT**
8. Fuel Quantity – **VERIFY / CAP SECURE**

Nose

1. Engine Oil – **CHECK LEVEL (6-8 quarts)**
2. Fuel Strainer – **SAMPLE & CHECK**
3. Propeller / Spinner – **CHECK**
4. Air Filter – **CHECK CLEAR**
5. Nose Strut – **CHECK**
6. Tire – **CHECK TREAD/PRESSURE**
7. Static Port – **CHECK CLEAR**
8. Windshield – **CLEAN**

Left Wing

1. Fuel Quantity – **VERIFY / CAP SECURE**
2. Pitot Tube – **CHECK CLEAR**
3. Stall Warning Opening – **CHECK CLEAR**
4. Fuel Tank Vent – **CHECK CLEAR**
5. Wing Tie-Down – **DISCONNECT**
6. Leading Edge / Wingtip – **CHECK**
7. Aileron – **FREE & SECURE**
8. Flap – **CHECK**
9. Tire – **CHECK TREAD & PRESSURE**
10. Brake – **CHECK FOR LEAKS**
11. Fuel Tank Sump – **SAMPLE & CHECK**
12. Ladder & Chocks – **REMOVE & STOW**

BEFORE STARTING ENGINE

1. Pre-flight – **COMPLETE**
2. Passenger Briefing – **S.A.F.E.T.Y.**
3. Seats & Seatbelts – **ADJUST & SECURE**
4. Fuel Selector – **BOTH**
5. Avionics Master – **OFF**
6. Electrical Equipment – **OFF**
7. All Circuit Breakers – **IN**

STARTING ENGINE

1. Brakes – **TEST & HOLD**
2. Mixture – **RICH**
3. Throttle – **OPEN ½ INCH**
4. Carb Heat – **OFF**
5. Beacon & Strobe Lights – **ON**
6. Master Switch – **ON**
7. Prime – **AS REQUIRED (5 MAX WHEN COLD)**
8. Propeller Area – **“CLEAR!”**
9. Ignition Switch – **TURN TO START**
10. Throttle – **1000 RPM**
11. Oil Pressure – **CHECK IN GREEN**
12. Wing Flaps – **UP**
13. Mixture – **LEAN 1 INCH FOR TAXI**

PRE-TAXI & TAXI

1. Avionics Master – **ON**
2. Transponder – **STANDBY**
3. ATIS – **CHECK**
4. Clearance – **OBTAIN**
5. Transponder – **SET CODE & SET TO “ALT”**
6. Brakes – **CHECK (BOTH PILOT STATIONS)**
7. Instruments – **CHECK DURING TAXI (IFR)**

BEFORE TAKEOFF (RUN-UP)

1. **(C)**ontrols – **FREE & CORRECT**
2. **(I)**nstruments – **SET**
3. **(G)**as – Fuel Selector **BOTH**
4. **(A)**ttitude (Trim/Flaps) – **SET (10° Short/Soft)**
5. **(R)**adios – **COM / NAV / TRANSPONDER**
6. **(S)**ecure – **DOORS / WINDOWS LATCHED**
7. Brakes – **HOLD**
8. Throttle – **1700 RPM**
 - Mixture – **LEAN 1 INCH**
 - Mags – **LEFT/RIGHT (125 MAX DROP)**
 - Ammeter – **CHECK (NEUTRAL OR +)**
 - Oil Pressure / Temp – **CHECK IN LIMITS**
 - Suction – **IN GREEN**
 - Carb Heat – **ON, VERIFY RPM DROP**
 - Throttle – **IDLE CHECK**
 - Carb Heat – **OFF**
9. Throttle – **1000 RPM**
10. Throttle Friction Lock – **ADJUST**
11. Clearance – **REVIEW**
12. Takeoff Emergency Briefing – **COMPLETE**

V Speeds (KTS) Vr = 55 Vx = 62 Vy = 73
Va = 105 Vg = 68 Vref = 60-70

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PRE-FLIGHT INSPECTION

PAVE / IMSAFE / W & B – COMPLETE

Cabin / Electrical

1. Documents – **A.R.R.O.W.**
2. Control Lock & Pitot Cover – **REMOVE**
3. Ignition Switch – **OFF**
4. Avionics Master – **OFF**
5. Battery – **ON**
6. Flaps – **FULL DOWN**
7. Fuel Gauges / Electric Gyro – **CHECK**
8. Lights & Pitot Heat – **CHECK**
9. Battery – **OFF**

Empennage

1. Empennage Surface – **CHECK**
2. Horizontal Stabilizer – **SECURE**
3. Elevator & Trim Tab – **FREE & SECURE**
4. Rudder – **FREE & SECURE**
5. Tail Tie-down – **DISCONNECT**
6. Antennas – **CHECK CONDITION**

Right Wing

1. Fuel Tank Sump – **SAMPLE & CHECK**
2. Tire – **CHECK TREAD & PRESSURE**
3. Brake – **CHECK FOR LEAKS**
4. Flap – **CHECK**
5. Aileron – **FREE & SECURE**
6. Wingtip / Leading Edge – **CHECK**
7. Wing Tie-Down – **DISCONNECT**
8. Fuel Quantity – **VERIFY / CAP SECURE**

Nose

1. Engine Oil – **CHECK LEVEL (6-8 quarts)**
2. Fuel Strainer – **SAMPLE & CHECK**
3. Propeller / Spinner – **CHECK**
4. Air Filter – **CHECK CLEAR**
5. Nose Strut – **CHECK**
6. Tire – **CHECK TREAD/PRESSURE**
7. Static Port – **CHECK CLEAR**
8. Windshield – **CLEAN**

Left Wing

1. Fuel Quantity – **VERIFY / CAP SECURE**
2. Pitot Tube – **CHECK CLEAR**
3. Stall Warning Opening – **CHECK CLEAR**
4. Fuel Tank Vent – **CHECK CLEAR**
5. Wing Tie-Down – **DISCONNECT**
6. Leading Edge / Wingtip – **CHECK**
7. Aileron – **FREE & SECURE**
8. Flap – **CHECK**
9. Tire – **CHECK TREAD & PRESSURE**
10. Brake – **CHECK FOR LEAKS**
11. Fuel Tank Sump – **SAMPLE & CHECK**
12. Ladder & Chocks – **REMOVE & STOW**

BEFORE STARTING ENGINE

1. Pre-flight – **COMPLETE**
2. Passenger Briefing – **S.A.F.E.T.Y.**
3. Seats & Seatbelts – **ADJUST & SECURE**
4. Fuel Selector – **BOTH**
5. Avionics Master – **OFF**
6. Electrical Equipment – **OFF**
7. All Circuit Breakers – **IN**

STARTING ENGINE

1. Brakes – **TEST & HOLD**
2. Mixture – **RICH**
3. Throttle – **OPEN ½ INCH**
4. Carb Heat – **OFF**
5. Beacon & Strobe Lights – **ON**
6. Master Switch – **ON**
7. Prime – **AS REQUIRED (5 MAX WHEN COLD)**
8. Propeller Area – **“CLEAR!”**
9. Ignition Switch – **TURN TO START**
10. Throttle – **1000 RPM**
11. Oil Pressure – **CHECK IN GREEN**
12. Wing Flaps – **UP**
13. Mixture – **LEAN 1 INCH FOR TAXI**

PRE-TAXI & TAXI

1. Avionics Master – **ON**
2. Transponder – **STANDBY**
3. ATIS – **CHECK**
4. Clearance – **OBTAIN**
5. Transponder – **SET CODE & SET TO “ALT”**
6. Brakes – **CHECK (BOTH PILOT STATIONS)**
7. Instruments – **CHECK DURING TAXI (IFR)**

BEFORE TAKEOFF (RUN-UP)

1. **(C)**ontrols – **FREE & CORRECT**
2. **(I)**nstruments – **SET**
3. **(G)**as – Fuel Selector **BOTH**
4. **(A)**ttitude (Trim/Flaps) – **SET (10° Short/Soft)**
5. **(R)**adios – **COM / NAV / TRANSPONDER**
6. **(S)**ecure – **DOORS / WINDOWS LATCHED**
7. Brakes – **HOLD**
8. Throttle – **1700 RPM**
 - Mixture – **LEAN 1 INCH**
 - Mags – **LEFT/RIGHT (125 MAX DROP)**
 - Ammeter – **CHECK (NEUTRAL OR +)**
 - Oil Pressure / Temp – **CHECK IN LIMITS**
 - Suction – **IN GREEN**
 - Carb Heat – **ON, VERIFY RPM DROP**
 - Throttle – **IDLE CHECK**
 - Carb Heat – **OFF**
9. Throttle – **1000 RPM**
10. Throttle Friction Lock – **ADJUST**
11. Clearance – **REVIEW**
12. Takeoff Emergency Briefing – **COMPLETE**

V Speeds (KTS) Vr = 55 Vx = 62 Vy = 73
Va = 105 Vg = 68 Vref = 60-70

TAKEOFF

1. All Lights – **ON**
2. Mixture – **RICH BELOW 3000 FEET**
3. Throttle – **FULL FORWARD**
4. Elevator – **RAISE NOSE Vr 55 KTS**
5. Pitch – **Vx 62 / Vy 73 KTS**

ENROUTE CLIMB

1. Flaps – **UP ABOVE 200 FEET**
2. Pitch – **85 KTS**

CRUISE

1. Power – **SET PER POH (MAX 75%)**
2. Elevator – **TRIM FOR LEVEL FLIGHT**
3. Mixture – **LEAN PER POH**
4. Gauges – **MONITOR**

BEFORE LANDING

1. **(A)l**timeter – **SET**
2. **(L)ights** – **ON**
3. **(G)as** – Fuel Selector **BOTH**
4. **(U)ndercarriage** – **CHECKED**
5. **(M)ixture** – **RICH BELOW 3000 FEET**
6. **(P)ower** – Carb Heat & Throttle **ADJUST**
7. **(S)eatbelts** – **ADJUST**

LANDING

1. Flaps – **SET BELOW 85 KTS**
2. Airspeed – **60 – 70 KTS (60 Short Field)**
3. Braking – **MINIMUM REQUIRED**

AFTER LANDING

1. Wing Flaps – **UP**
2. Mixture – **LEAN 1 INCH FOR TAXI**
3. Carb Heat – **OFF**
4. Lights (Except Beacon) – **OFF**
5. Trim – **RESET FOR TAKEOFF**

SHUTDOWN

1. Transponder – **1200 THEN STANDBY**
2. Avionics Master – **OFF**
3. Ignition Grounding – **CHECK**
4. Mixture – **IDLE CUTOFF**
5. Ignition – **OFF/KEYS OUT**
6. Master Switch – **OFF**
7. Control Lock / Pitot Cover – **INSTALL**
8. Tie Downs – **CONNECT**
9. Record – **HOBBS, TACH, ADDITIONS OF FUEL & OIL, POST FLIGHT CHECK**



**THIS CHECKLIST IS FOR REFERENCE ONLY
ALWAYS CONSULT AIRCRAFT POH**

ENGINE FAILURE AFTER TAKEOFF

1. Pitch – **65 KTS**
2. Flaps – **DOWN**
3. Fuel Selector – **OFF**
4. Mixture – **IDLE CUTOFF**
5. Ignition & Master Switches – **OFF**
6. Doors – **OPEN BEFORE TOUCHDOWN**

ENGINE FAILURE IN FLIGHT

1. **(A)irs**peed – **68 KTS & TRIM**
2. **(B)est** Landing Site – **FLY DIRECT**
3. **(C)ockpit Flow / (C)hecklist** “Floor to door”
 - Fuel Selector – **LEFT / RIGHT / BOTH**
 - Mixture & Throttle – **ADJUST**
 - Carb Heat – **ON**
 - Ignition – **LEFT / RIGHT / BOTH**
 - Primer – **IN & LOCKED**

IF NO RESTART

4. **(D)eclare** – **MAYDAY (121.5, 7700 as req.)**
5. **(E)xecute / (E)xit**
 - Fuel Selector – **OFF**
 - Mixture – **IDLE CUTOFF**
 - Ignition Switch – **OFF**
 - Flaps – **AS REQUIRED**
 - Master Switch – **OFF**
 - Doors – **OPEN BEFORE TOUCHDOWN**

ENGINE FIRE ON GROUND

1. **CONTINUE CRANKING**
 - If engine starts: **1700 RPM THEN SHUTDOWN**
2. If no start: **SHUTDOWN**
 - Ignition – **OFF**
 - Master Switch – **OFF**
 - Fuel Selector – **OFF**
 - Fire – **EXTINGUISH**

ELECTRICAL FIRE IN FLIGHT

1. Master Switch – **OFF**
 2. All Switches Except Ignition – **OFF**
 3. Vents/Cabin Air/Heat – **CLOSED/OFF**
 4. Fire – **EXTINGUISH**
- WHEN FIRE APPEARS OUT**
5. Cabin – **VENTILATE**
 6. Circuit Breakers – **CHECK, DON'T RESET**
 7. Master Switch – **ON**
 8. Radios & Elec Equip – **ON ONE AT A TIME**

AMMETER EXCESSIVE CHARGE / DISCHARGE

1. Master Switch – **CYCLE OFF THEN ON**
2. Alternator CB – **CHECK IN (IF DISCHARGE)**
3. If Condition Remains:
 - Alternator – **OFF**
 - Electrical Load – **REDUCE**
 - Flight – **TERMINATE AS SOON AS PRACTICAL**

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