Use at your own risk. The pilot must refer to the FAA approved documents for the correct information, and is responsible for safe operation of aircraft.

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| **Cessna 172N – 180HP V1.4 3/23/2025** |
| **TAKEOFF**  Normal: Rotate 48 KIAS **Vy 73 KIAS** (72 KIAS @ 10,000’ DA)  Short/Soft: Flaps 10°/10° **Vx 62 KIAS** (67 KIAS @ 10,000’ DA) |
| **CRUISE CLIMB 75-85 KIAS**  **MAXIMUM GLIDE SPEED 68 KIAS (flaps up@ GW)**  62 KIAS @ 2150# / 56 KIAS @ 1750 # |
| **>1000’ AGL** • Oil Pres/Temp • Ammeter • Lights On |
| **CRUISE** • Mixture LEAN to **peak EGT**, then ENRICH 50˚F rich of peak for Best power.  • Heading Indicator **SET** • Routinely Check Gauges:  • Oil Press/Temp • Ammeter • Fuel |
| **LANDING** • Landing Light **ON** • AutoPilot **OFF** • **GUMPS**  • Carb Heat **ON** • Fuel **BOTH** • Mixture **ENRICH**  • Approach at **65-75 KIAS (flaps up) 60-70 KIAS (30**° **flaps)** |
| |  |  | | --- | --- | | *CAS KIAS*  **Vso 40**  **Vs1 50**  **Vfe 85**  **Va 2550 105**  **Va 2150 95**  **Va 1750 85**  **Vno 127**  **Vne 158** | Recommended Pattern Speeds/ Approx Pwr Settings  Downwind: 85 - 95 KIAS / 2000 RPM  Abeam: 80 - 85 KIAS / 1500 RPM  Base: 70 - 80 KIAS / 1500 RPM  Final: 60 - 70 KIAS / 1500 RPM  (Flaps – No Flaps) | |
| **GO AROUND**  • Full Throttle • Pitch up • Carb Heat **OFF**  • Flaps retract to **20°** • Climbing & above **65 KIAS** retract flaps |
| **AFTER LANDING**  • Carb Heat **OFF** • Flaps **UP**  • Mixture **LEAN** for taxi |
| **SHUTDOWN** • Avionics/Lights **OFF** • Mixture **OFF** • Master **OFF** •  • Mags **OFF** • Parking Brake **SET** • Pitot Tube Covers **Installed**  • Control Lock **Installed** • Flight Plan **Closed** |
| **POSTFLIGHT**  • Hobbs & Tach Time **RECORD** • Windows & Leading Edges **CLEAN**  • Wheel Chocks **SET** • Seat Belts **SECURE** • Interior **CLEAN**  • Airplane **LOCKED** • Flight Log **ENTERED** • Flight Plan **CLOSED**  • Hangar **SECURE** • Lights **OFF** • Doors **LOCKED** |
| Emergency: Com 121.5 / Squawk 7700  Loss Com. Squawk 7600  KMAN ASOS:118.325 KEUL ASOS :135.07 KBOI ATIS:123.9  BOI App/Dep:119.6 unless directed to 126.9 FSS BOI: 122.6 |

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| **Cessna 172N – 180HP V1.4 3/23/2025** | |
| PREFLIGHT Pitot/AOA Tube Covers-REMOVED  Gust Lock - REMOVED  Avionics Master–OFF  AOA Pitot Heat/Pitot Heat - OFF  Master – ON (Right side only)  Hobbs – Check with Flight Log  Tach Time Check < Oil Change  Flaps – 20° Smooth Operation  Fuel Gauges – CHECK  Exterior Lights - CHECK  Interior Lights - CHECK  Master – OFF  Baggage Door – LOCKED  Tires/Brakes – Press/Leaks  (Main 38 psi - Nose 45 psi)  Fuel Quantity & Caps Secure.  Oil level: 6 MIN / 7 MAX Qts.  Nose Strut - Correct travel  Prop/Spinner - Inspect  Static Ports - Clear  Check Fuel Wing Drains - Quality  Engine Fuel Strainer-Drain  Final Walk/Look Around/Tow Bar START Seats – LOCKED  Seat/Shoulder Belts– FASTENED  Parking Brake – SET  Passenger Briefing  Fuel – ON BOTH  Circuit Breakers – IN  Mixture – RICH  Carb Heat – COLD  Prime – As Required (max 3) Throttle – OPEN ½ Inch  Beacon – ON  Prop Area - Clear (Yell)  Master – ON (Right side only)  Engage Starter (max 20 sec crank if no start) | AFTER START Master – ON (Left and Right)  Throttle – 1000 RPM  Oil Pressure– in green < 30 seconds  Flaps – UP  Mixture – LEAN FOR TAXI  Avionics Master – ON  AutoPilot Preflight See any C182 G3X manual pg 295 and FMS-Limitations 2-1 and Preflight 7-7.  ESP on G5 - Know how to Disengage  GTN750Xi – Set Fuel Qty/Fuel Burn  Taxi Lights - ON  Transponder – ALT RUNUP Doors & Windows – LATCHED  Controls – FREE & CORRECT  Flaps – UP  Trim – TAKEOFF  Throttle – 1700 RPM  Mixture – FULL RICH (Lean for Best Power above 3,000’ DA)  MAG TEST: Note: Electronic Ignition on R mag. Drop will be different  (L < 125 rpm, R < 50 rpm)  When switching R to Both, there will be a slight drop in RPM. Switch mag positions quickly to minimize backfire or momentary loss RPM.  Carb Heat – TEST  Ammeter - Charging  Low Voltage Light - Out  Throttle – back to 1000 RPM  Instruments – CHECK/SET  Garmin G5 baro pressure set/referenced same as conventional Altimeter  Seat Belts/Harnesa – SECURE  COM – First Freq. 122.7 KMAN  KMAN ASOS:118.325  Headsets Check – Noise Canceling ON  Check Intercom/Com volumes/operation  AutoPilot – OFF  GTN750Xi/Avionics – Set Up |
| **BEFORE TAKEOFF**  Flaps **UP** OR 10°• Carb Heat **OFF** •  • Landing Lights/Strobes **ON** • Headset **ON** • Transponder - **ALT**  **-** Clearing circle for Pattern Traffic  • What is your **ABORT** Plan? | |