



**FLIGHT DECK**

Aircraft Docs.....Onboard  
 Control Lock.....Remove  
 Ignition Switch.....OFF  
 Key.....Remove  
 Avionics Master.....OFF  
 Master Switch.....ON  
 Fuel Quantity.....Check  
 External Lights..Check Then OFF  
 Pitot Heat.....Check Then OFF  
 Master Switch.....OFF

**INITIAL INSPECTION**

Fuel Quantity.....Visually Verify  
 Oil Quantity.....Visually Verify  
 Tiedowns.....Remove  
 Gust Locks.....Remove  
*Coordinate Any Required Servicing*

**LEFT FUSELAGE**

Baggage Door.....Secure  
 Antennas.....Secure  
 Horizontal Stab.....No Damage  
 Elevator.....Free Movement

**VERTICAL STAB/RUDDER**

Vertical Stab.....No Damage  
 Rudder.....Free Movement  
 Fixed Rudder Trim.....Secure

**RIGHT FUSELAGE**

Elevator.....Free Movement  
 Elev. Trim Tab..Secure & Correct  
 Horizontal Stab.....No Damage

**RIGHT WING**

Flap.....Secure  
 Aileron.....Free Movement  
 Wingtip.....No Damage  
 Leading Edge.....No Damage  
 Wheel & Brake.....No Drip  
 Pad Visible  
 Main Tire.....Check Condition  
 Fuel Sump.....Sample & Check  
 Fuel Quantity...Ck, Cap Secure

**NOSE SECTION**

Oil Quantity.....Ck, Cap Secure  
 Oil Access Door.....Closed  
 Propeller.....Check for Damage  
 Nose Wheel Strut....Proper Infl  
 Nose Tire.....Check Condition  
 Static Post.....Clear

**LEFT WING**

Fuel Quantity...Ck, Cap Secure  
 Leading Edge.....No Damage  
 Pitot Tube Cover.....Remove  
 Fuel Vent.....Clear  
 Wingtip.....No Damage  
 Aileron.....Free Movement  
 Flap.....Secure  
 Wheel & Brake.....No Drip  
 Pad Visible  
 Fuel Sump.....Sample & Check

**FINAL PREFLIGHT CKS**

All Covers.....REMOVE  
 Wheel Chocks.....REMOVE  
 Tiedowns.....REMOVE  
 Tow Bar.....REMOVE  
 All Access Panels.....CLOSE  
 Fuel Caps.....SECURE

**BEFORE START ENG.**

Preflight.....Complete  
 Seats, Belts, Harnesses  
 Adjust/Secure  
 Doors.....Secure  
 Passenger Briefing....Complete  
 Avionics Master.....OFF  
 Autopilot.....OFF  
 Circuit Breakers.....IN  
 Fuel Selector.....BOTH  
 Brakes.....CHECK & SET

**STARTING ENGINE**

Mixture.....RICH  
 Carburetor Heat.....COLD  
 Master Switch.....ON  
 Beacon Light.....ON  
 Prime.....As Needed  
 Throttle.....Open 1/8"  
 Propeller Area....."CLEAR!"  
 Ignition Switch.....START  
 Throttle.....800-1000 RPM  
 Oil Pressure.....Within 30 Sec

**BEFORE TAXI**

Avionics Master.....ON  
 Mixture.....LEAN For Taxi  
 GPS/FMC.....INITIALIZE  
 ATIS/ASOS Weather.....Obtain  
 Altimeter.....SET  
 Directional Gyro  
 SET To Compass  
 GPS/VOR Navigation  
 Program/SET  
 Flaps.....VERIFY UP  
 Taxi & NAV Lights.....ON

8  
7.5  
7  
6.5  
6  
5.5  
5  
4.5  
4  
3.5  
3  
2.5  
2  
1.5  
1  
0.5  
0

**TAXI**

Brake Check.....COMPLETE  
 Artificial Horiz...LEVEL & Stable  
 Directional Gyro..Indicate Correct  
 Turn Coord.....Indicate Correct

**BEFORE TAKEOFF**

Brakes.....SET  
 Doors/Windows...Close & Secure  
 Flight Controls..FREE & CORRECT  
 Flight Instruments...CHECK & SET  
 Engine Instruments.....CHECK  
 Fuel Selector.....BOTH  
 Elevator Trim....SET (T.O.Range)

**RUNUP**

Throttle.....1700 RPM  
 Mixture.....BEST POWER  
 Magnetos.....CHECKED  
 (125 Max, 50 Diff)  
 Carb Heat.....CHECK Then OFF  
 Engine Instruments.....CHECK  
 Ammeter.....CHECK (Positive)  
 Suction Gage.....CHECK (5")  
 Throttle....IDLE Then 1000 RPM

**FINAL ITEMS**

Flaps.....Set As Appropriate  
 Navigation.....SET & ACTIVATE  
 Takeoff Briefing & Abort Plan

**CLIMB**

Throttle.....FULL POWER  
 Airspeed.....70-85 kts  
 Mixture.....LEAN As Needed  
 Taxi & Landing Light.....OFF

**CRUISE**

Throttle.....2200-2700 RPM  
 Mixture.....LEAN For Cruise

**BEFORE DESCENT**

ATIS/ASOS/WX..Obtain Current  
 GPS/FMC.....Program  
 Seats, Belts, Harnesses  
 Adjust/Secure  
 Mixture.....RICHEN As Needed  
 Carb Heat.....As Required  
 Landing Light.....ON

**BEFORE LANDING**

Fuel Selector.....BOTH  
 Mixture.....RICHEN As Needed  
 Carb Heat.....ON Or As Needed  
 Flaps.....As Required

**AFTER LANDING**

Flaps.....UP  
 Mixture.....LEAN For Taxi  
 Carb Heat.....OFF  
 Taxi Light.....ON  
 Landing Light.....OFF

**SECURING**

Brakes.....SET  
 Avionics Master.....OFF  
 Mixture.....IDLE CUT-OFF  
 Ignition Switch.....OFF  
 Key.....Remove  
 Master Switch.....OFF  
 Control Lock.....Install  
 HOBBS/Tach Times.....Record

Vr • Rotation – 52 (60)  
 Vx • Best Angle Climb – 57 (66)  
 Vy • Best Rate Climb – 70 (80)

Vs<sub>0</sub> • Stall With Flaps – 43<sup>(1)</sup>(49)  
 Vs • Stall w/o Flaps – 50<sup>(1)</sup>(57)  
 Best Glide (2000 lbs) – 65 (75)  
 Best Glide (Full Gross) – 70 (80)

Va • Max Abrupt (2000 lbs) – 99 (114)  
 Va • Max Abrupt (Full Gross) – 106 (122)  
 Vno • Max Structural Cruise – 122 (140)  
 Vne • Never Exceed – 151 (174)

Vfe • Full Flaps – 87 (100)  
 X Wind • Max Demo'd – 13 (15)

**Cessna 172 F ~ N8410U ~ 180 HP**

Empty Weight: 1632 LBS (Specific Plane Weight)  
 Max. Useful Load: 868 LBS (Includes Fuel @ 6.8 lbs/gal)  
 Max. Baggage: 120 LBS  
 Max. Takeoff Weight: 2500 LBS

Fuel Type: 100LL (Blue) 100 (Green)  
 Usable Fuel: 36 Gallons  
 Oil Capacity: 6 Quarts (Minimum 4)  
 Electrical: 12 VOLT (60 AMP)  
 Tire Pressure: Nose -26 PSI / Mains -24 PSI

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Specs Are Approximate Because Of Environment & Plane Model / Year Variables. Specs Are In: LBS, KIAS, Sea Level, Standard Day, Normal Category, Max. Gross Wt., No Wind, "Best Power", New Engine. ( ) = MPH

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