

Preflight Left Wing

1. Wing Tie-down Disconnect.
2. Left Fuel Quantity Visually Check.
3. Fuel Filler Cap Secure & Vent.
(Confirm unobstructed)
4. Sump Quick Drain Valves Drain.

See Fuel Contamination Warning in the POH.

5. Main Wheel Tire Check Condition.

Preflight Left Wing Trailing Edge

1. Left Aileron Check.
2. Left Flap Check.

PASSENGER BRIEF

1. Seat Belts / Shoulder Harness
2. Personal Electronic Devices off
3. Air Vents / Comfort
4. Fire Extinguisher Location / Operation
5. Emergency Procedures & Exits

MISSION BRIEF

1. Mission Objective
2. Destination, WX, Route, Alt, ETE
3. NOTAMS
4. Crew Coordination & CRM
5. Sterile Cockpit Procedures
6. Cockpit Layout
7. Intercom & Radio Usage
8. Seats, Seatbelts, Doors
9. Emergency Action & Equipment

Before Starting Engine

1. Preflight Inspection Complete.
2. Passenger Brief Complete.
3. Seats / Belts / Shoulder Harness
Adjust and lock, check inertial reels.
(front & rear).
4. Brakes Test & Set.
5. Circuit Breakers Check In.
6. Electrical Equipment Off.
7. Avionics Switch (Bus 1&2) Off.
Caution (See Complete Caution in POH)
The avionics switch (Bus 1 and 2) must be off during engine start
8. Cowl Flaps Open.
9. Fuel Selector Both.

Starting Engine Using Battery

1. Throttle Control Open 1/2 inch.
2. Propeller Control High RPM.
3. Mixture Control Idle Cut Off.
4. STBY BATT Switch Test and Arm
Hold for 10 seconds, verify that green test lamp does not go out, then ARM and verify that PFD comes on).
5. Engine Indicating System Check Parameters, (verify no red X's through ENGINE page indicators).
6. BUS E Volts 24 volts min.
7. M BUS Volts 0 volts.
8. BATT S Amps Discharge (neg).
9. STBY BATT Annunciator On.
10. Propeller Area Clear.
11. Master Switch (Alt and Bat) On.

Note

If engine is warm, omit priming procedure of steps 12, 13 and 14 below.

12. Fuel Pump Switch On.
13. Mixture Control Advance to Full Rich, wait until fuel flow indication is stable, and then return to idle cut off position.
14. Fuel Pump Switch Off.
15. Magnetos Switch Start.
16. Mixture Control Advance smoothly to full Rich when engine starts.

Note

If the engine floods, place the mixture control in the Idle Cut Off position, open the throttle control 1/2 to full, and engage the starter motor (Start). When the engine starts, advance the mixture control to the Full Rich position and retard the throttle control promptly.

17. Oil Pressure Check.
18. Amps (M Batt & Batt S) Check.
charge (positive).
19. Low Volts Annunciator Verify Off.
20. Beacon Light Switch On as req.
21. Nav Lights Switch On as req.
22. Pulse light On.
23. Avionics Switch (Bus1&2) On.
24. ATIS / AWOS Copy.
25. Check MFD for correct A/C type and Jeppesen expiration dates, then press ENT.

Taxi

1. Mixture Control Lean at 1200 RPM.
2. Throttle Test.
3. Heat / Vents / Defrost As Required.
4. Attitude Indicator Verify Proper Ops.
5. Compass Verify Proper Ops.
6. Fuel Selector Valve Both.

Before Takeoff - Run-Up

1. Parking Brake Set.
2. Passenger Seat Backs Upright pos.
3. Seats and Seat Belts Secure.
4. Cabin Doors Closed and Locked.
5. Flight Controls Free & Correct.
6. Flight Instruments Check no red Xs.
7. Altimeter:
 - PDF (Baro) Set.
 - Standby Altimeter Set.
 - GCS 700 Autopilot (Baro) Set.
8. G1000 Alt Sel Set.
9. GSC 700 Altitude Preselect Set.

Note 1

There is no connection between the G1000 Alt Sel feature and the GCS 700 autopilot altitude pre-select or altitude hold functions. G1000 and GCS 700 altitudes are set independently.

10. Standby Flight Instruments, Check.
11. Fuel Quantity Check.

Note 2

Flight is not recommended when both fuel quantity indicators are in the yellow arc range.

12. Fuel Totalizer Set quantity
13. Mixture control Rich or as req.
14. Fuel Selector Valve Both.
15. Manual Electric Trim (MET) Check.
16. Autopilot Engage.
17. Flight Controls Check.
18. A/P Trim DISC Button Press.
19. Flight Director Off.
20. Elevator & Rudder Trim Take Off.
21. Throttle Control 1800 RPM.
 - Magnetos Switch Check RPM drop 175 or 50 differential
 - Prop Control Cycle high to low RPM, back to high RPM (full in).
 - VAC Indicators Check.
 - Engine Indicators Check.
 - Ammeters & Voltmeters Check

22. Annunciators Check none Lighted.
23. Throttle Check Idle.
24. Throttle 1000 RPM or less.
25. Throttle Friction Lock Adjust.
26. Com Frequency(s) Set.
27. Nav Frequency(s) Set.
28. FMS/GPS Flight Plan As Desired.

Note

Check GPS 2 avail. on Aux Status page!

29. XPDR Set.
30. CDI Softkey Select NAV source.
Caution (See Full Caution in POH)
The G1000 HSI does not provide a warning "Flag". The missing D-Bar is considered to be the warning flag.

WARNING

(See Full Warning in POH)
Interruption of NAV signal to the autopilot will cause autopilot to revert to ROL mode with NO warning chime or PFD annunciation.

31. Autopilot Off.
32. Wing Flaps 0°-20° (10° preferred).
33. Cowl Flaps Open.
34. Cabin Windows Closed & Locked.
35. Strobe Lights Switch On.
36. Brakes Release.

Takeoff

1. Flaps 0°-20° (10° preferred).
2. Throttle Control Full.
3. Propeller Control 2400 RPM.
4. Mixture Control Full Rich above 5000 ft. alt., lean for max. RPM.
5. Rotate 50-60 KIAS.
6. Normal Climb Speed 80 KIAS.
 - Short Field T.O. 20° Flaps / 58 KIAS Until Clear.
 - Soft Field T.O. 20° Flaps Get into Ground Effect ASAP.

Normal Climb

1. Airspeed 85-95 KIAS.
2. Throttle 23 inches or Full.
(If less than 23 in. Hg.)
3. Propeller Control 2400 RPM.
4. Mixture 15 GPH or Full Rich.
(If less than 15 GPH).