



C-172SP CHECKLIST

PREFLIGHT INSPECTION

CABIN

1. DocumentsARROW
2. Flight Information Manual.. AVAILABLE
3. G1000 Reference Guide.... AVAILABLE
4. Flight Plan & Charts AVAILABLE
5. Aircraft Wt & Balance CHECK
6. Parking Brake..... SET
7. Control Wheel Lock REMOVE
8. Ignition..... OFF
9. Avionics (Bus 1 & Bus 2)..... OFF
10. Master (ALT & BAT) ON
11. Hobbs & Tach Time..... NOTE
12. Lights & Pitot Heat..... CHECK
13. PFDCHECK ON
14. Fuel Quantity (L & R)..... CHECK
15. Low Fuel Annunciator..... VERIFY OFF
16. Oil Pressure Annunciator... VERIFY ON
17. Low Volts Annunciator..... VERIFY ON
18. Low Vac Annunciator VERIFY ON
19. Fwd Av. Fan (Bus 1).. ON/CHECK/OFF
20. Aft Av. Fan (Bus 2) ... ON/CHECK/OFF
21. FlapsEXTEND 10°
22. Master (ALT & BAT) OFF
23. Circuit Breakers..... CHECK IN
24. Fire Extinguisher CHECK
25. Fuel Selector Valve BOTH
26. Alternate Static Air Valve..... OFF
27. Elevator Trim SET FOR TAKEOFF

EMPENNAGE

1. Baggage Door OPEN (LEAVE KEY)
2. A/P Static Port CHECK
3. Tail Tiedown REMOVE
4. Rear Control Surfaces CHECK
5. Elevator Trim Tab CHECK

6. AntennasCHECK

RIGHT WING

1. Right Flap & Aileron..... CHECK
2. Right Wing General Condition ..CHECK
3. Right Wing TiedownREMOVE
4. Right Main Wheel & Tire..... CHECK
5. Right Main Brake ConditionCHECK
6. Right Wheel ChocksREMOVE
7. Right Wing Fuel SumpsDRAIN (5)
8. Right Fuel Qty & Cap..... CHECK

NOSE AREA

1. Nose Fuel SumpsDRAIN (3)
2. Engine Heater.. UNPLUG (if necessary)
3. Engine OilCHECK (6 qts min)
4. Nosewheel Tire & Strut..... CHECK
5. Nosewheel ChocksREMOVE
6. Cowl Plugs.....REMOVE
7. Engine Cooling Air InletsCHECK
8. Alternator Belt.....CHECK
9. Propeller & SpinnerCHECK
10. Air FilterCHECK
11. Static PortCHECK

LEFT WING

1. Left Fuel Quantity & CapCHECK
2. Fuel Tank Vent Opening.....CHECK
3. Stall Warning Opening.....CHECK
4. Pitot Tube Cover.....REMOVE
5. Left Wing General Condition.....CHECK
6. Left Aileron & FlapCHECK
7. Left Wing TiedownREMOVE
8. Left Main Wheel & TireCHECK
9. Left Main Brake ConditionCHECK
10. Left Wheel ChocksREMOVE
11. Left Wing Fuel SumpsDRAIN (5)
12. Baggage Door CLOSED & LOCKED

BEFORE ENGINE START

1. Passenger Briefing COMPLETE
2. Seats & Seatbelts .. CHECK & ADJUST
3. Brakes TEST & SET
4. Circuit Breakers CHECK IN
5. Electrical Equipment..... OFF
6. Avionics (Bus 1 & Bus 2) OFF
7. Fuel Selector Valve BOTH
8. Fuel Shutoff Valve ON (push full in)
9. Flight ControlsFREE & CORRECT

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ENGINE START

1. Standby Battery Switch.. TEST (20 sec)
2. Standby Battery Switch..... ARM
3. Engine Ind. System (PFD) CHECK
4. Bus E Volts VERIFY 24 volts min
5. Bus M Volts.... VERIFY 1.5 volts or less
6. Batt S Amps..... VERIFY DISCHARGE
7. Stby Batt Annunciator VERIFY ON
8. Beacon.....ON
9. Master Switch (ALT & BAT)ON

Prime Engine (omit if engine is warm)

10. Throttle..... OPEN (IN)
11. Fuel PumpON
12. MixtureFULL RICH
until stable fuel flow is indicated (3 to 5
seconds), then set to LEAN CUTOFF
13. Fuel Pump OFF

14. Throttle..... CLOSE THEN ½" OPEN
15. Propeller Area..... CLEAR
16. Ignition Switch..... START
17. Mixture ADVANCE as engine starts

NOTE: PROTECT YOUR STARTER!

Do NOT engage for more than 10 seconds! Allow 20 seconds to cool down between attempts.

Repeat up to 4 times, then let cool for at least **30 minutes** prior to another attempt.

NOTE: HOT START procedure on reverse.

18. Throttle..... 1000 RPM
19. Oil Pressure CHECK
20. Mixture LEAN FOR TAXI
21. Amps (Batt M & Batt S)..... VERIFY +
22. Bus M Volts..... VERIFY (28 volts min)
23. Bus E Volts VERIFY (28 volts min)

BEFORE TAXI

1. Lights AS REQUIRED
2. Flaps RETRACT
3. Avionics (Bus 1 & Bus 2) ON
4. Database CHECK CURRENT
5. Flight Plan..... LOAD
6. Fuel Quantity VERIFY / RESET
7. Weather / ATISLISTEN & RECORD
8. COM Frequencies..... SET
9. NAV Frequencies..... SET
10. Taxi Clearance.....OBTAINED
11. Taxi Area CLEAR
12. Brakes..... TEST IMMEDIATELY

BEFORE TAKEOFF CHECK

1. Brakes.....SET
2. Seats, Seat backs, Seatbelts ... CHECK
3. Doors CLOSED & LOCKED
4. PFD..... NO RED X's
5. Altimeters SET ALL 3
6. Altitude Preselects SET BOTH
7. Standby Flight Instruments CHECK
8. Fuel Quantity..... CHECK
9. Fuel Selector Valve BOTH
10. Electric Trim CHECK
Verify non-movement with single switch.
Verify proper movement with both.
11. Elevator Trim..... SET FOR TAKEOFF
12. Autopilot..... TEST / VERIFY OFF

RUNUP

13. Mixture RICH
14. Throttle..... 1800 RPM
15. Mixture SET FOR ALTITUDE
16. Magnetos CHECK
150 max drop, 50 max difference
17. Annunciators CHECK OFF
18. Engine Indicators CHECK
19. VAC indicator CHECK
20. Ammeters and Volt Meters..... CHECK

21. Throttle CHECK IDLE
22. Throttle 1000 RPM or less
23. Throttle Friction SET
24. COM Frequencies SET
25. NAV Frequencies SET
26. MFD Flight Plan AS DESIRED
27. LRU & GPS Status..... CHECK
28. Transponder..... SET
29. CDI Softkey SELECT NAV SOURCE
30. INSET & FPL Windows ... AS DESIRED
31. PFD Softkey Brg1 & Brg2 SET
32. Lights AS REQUIRED
33. Transponder.....VERIFY CODE
34. Brakes..... RELEASE
35. Takeoff Clearance.....OBTAINED



Version 1.4 September 2009

NORMAL TAKEOFF

Flaps..... UP
ThrottleFULL
Lift Nosewheel WHEN ABLE
Accelerate in G.E..... TO 70 KIAS
Climb Airspeed 70 to 80 KIAS

SHORT-FIELD TAKEOFF

Flaps..... 10°
Brakes HOLD
ThrottleFULL
Brakes RELEASE
Rotate..... 56 KIAS
Obstacle Climb A/S 56 KIAS
Climb Airspeed 60 KIAS
Wing Flaps.....RETRACT SLOWLY
Climb Airspeed 70 to 80 KIAS

NORMAL CLIMB

Airspeed 70 to 85 KIAS
Throttle RETARD SLIGHTLY
Mixture.....AS REQUIRED FOR MAX RPM

CRUISE

Throttle2100 to 2700 RPM
Elevator TrimADJUSTED
Mixture..... LEAN (50° RICH OF PEAK)
Flight Plan VERIFY

DESCENT

Throttle2000 to 2500 RPM
Mixture..... ADJUST AS REQUIRED
Altimeters SET ALL 3
Altitude Preselects..... SET BOTH
CDI Softkey SELECT NAV SOURCE
Flight Plan on MFD..... REVIEW AND BRIEF
Fuel Selector Valve BOTH
Wing Flaps.....AS DESIRED

BEFORE LANDING

Carburetor Heat N/A
Fuel (Gas)..... BOTH
UndercarriageDOWN AND LOCKED
Mixture SET
Power SET
Seats & Seatbelts CHECK & ADJUST
Switches (lights, etc).....AS DESIRED
Autopilot..... OFF

LANDING

Downwind 90 KIAS
Abeam Numbers.....85 KIAS / FLAPS 10°
Base Leg75 KIAS / FLAPS 20°
Final Leg.... 65 KIAS / FLAPS AS DESIRED

GO-AROUND

Throttle FULL
Flaps..... RETRACT TO 20°
Climb Airspeed 60 KIAS
Flaps..... RETRACT TO 10°at 65 KIAS

AFTER LANDING

Flaps..... RETRACT
LightsAS REQUIRED
Ground Clearance OBTAIN

SHUTDOWN & SECURE

1. Engine Tach & Fuel NOTE
2. Avionics (Bus 1 & Bus 2) OFF
3. Mixture..... LEAN CUTOFF
4. Magnetos OFF (Keys on panel)
5. Elec Equip OFF (except BEACON)
6. Master Switch OFF
7. Standby Battery OFF
8. Control LockINSTALL
9. Fuel Selector Valve LEFT or RIGHT
10. Hobbs Meter NOTE
11. SunscreenINSTALL
12. Wheels..... CHOCK
13. Tiedowns SECURE
14. Cowl Plugs.....INSTALL
15. Engine Heater..... PLUG IN (in Winter)
16. Pitot Tube Cover.....INSTALL
17. Flight Plan..... CLOSE

Telephone Numbers

Flight Service 800 992 7433
KGJT ATIS 970 245 7881
KGJT Tower970 986 3351
West Star Desk 970 248 5215
Monument Aircraft 970 257 9175
TriStar Aviation970 255 1501

AIRCRAFT SPEEDS

V_A 90 to 105 KIAS
V_{FE} 85 KIAS
V_{NO} 129 KIAS
V_{NE}163 KIAS
V_{S1} 48 KIAS
V_{SO} 40 KIAS
V_X 65 KIAS
V_Y75 KIAS
Best Glide..... 68 KIAS

HOT START PROCEDURE:

1. MixtureLEAN
2. Throttle..... Full OPEN (IN)
3. Aux Fuel Pump Switch.....ON for 20 s
4. MixtureRICH momentarily
5. Mixture LEAN
6. Auxiliary Fuel Pump SwitchOFF
7. Throttle..... Half OPEN
8. StarterENGAGE until engine fires,
..... **then release!**
9. Mixture RICH
10. Aux Fuel Pump Switch. ON (if required)
11. Throttle..... 1000 RPM
12. Mixture SET FOR ALTITUDE
13. Auxiliary Fuel Pump SwitchOFF

IFR CHECKLISTS

CLEARANCE

Clearance Limit
Route
Altitude
Frequency
Transponder Code

HOLDING AND APPROACHES (6 Ts)

Turn	Throttle
Time	Track
Twist	Talk

APPROACH BRIEFING

Missed Approach Procedure
Minimum Altitude (DA or MDA)
Radios
Time (FAF to MAP)
Heading(s)
Altitude(s)

WIRE CHECK (Prior to IAF)

Weather
Instruments (DG & Alt)
Radios (all tuned / identified)
Environment

- How low?
- How long?
- What if?

MISSED APPROACH

Cram it (full power)
Climb it
Clean it
Cool it
Call it

If you are unable to return to Grand Junction when expected, please call us **toll-free at 1-866-897-7910** to advise us of your new ETA.

You may also reach **Bradley Sullivan at (970) 210-5527** or **Collin Fay at (970) 260-6547**.



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