



## C-182T CHECKLIST

### PREFLIGHT INSPECTION

#### CABIN

1. Documents..... ARROW
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 ...NOTE IN CLIPBOARD
12. Lights & Pitot Heat .....CHECK
13. Stall Warning .....CHECK
14. PFD..... CHECK ON
15. Fuel Quantity (L & R) .....CHECK
16. Low Fuel Annunciators .... VERIFY OFF
17. Oil Pressure Annunciator ...VERIFY ON
18. Low Volts Annunciator .....VERIFY ON
19. Low Vac Annunciator .....VERIFY ON
20. Fwd Av. Fan (Bus 1) .. ON/CHECK/OFF
21. Aft Av. Fan (Bus 2) .... ON/CHECK/OFF
22. Flaps ..... EXTEND 10°
23. Master (ALT & BAT)..... OFF
24. Circuit Breakers ..... CHECK IN
25. Fire Extinguisher .....CHECK
26. Fuel Selector Valve..... BOTH
27. Cowl Flaps ..... OPEN
28. Alternate Static Air Valve ..... OFF
29. Elevator Trim..... SET FOR TAKEOFF

#### EMPENNAGE

1. Baggage Door..... OPEN (LEAVE KEY)
2. Rudder Gust Lock.....REMOVE
3. Tail Tiedown .....REMOVE

4. Rear Control Surfaces ..... CHECK
5. Elevator Trim Tab ..... CHECK
6. Antennas ..... CHECK

#### RIGHT WING

1. Right Flap & Aileron..... CHECK
2. Right Wing General Condition .. CHECK
3. Right Wing Tiedown ..... REMOVE
4. Right Main Wheel & Tire..... CHECK
5. Right Main Brake Condition..... CHECK
6. Right Wheel Chocks ..... REMOVE
7. Right Fuel Tank Vent..... CHECK
8. Right Wing Fuel Sumps..... DRAIN (5)
9. Right Fuel Qty & Cap..... CHECK

#### NOSE AREA

1. Right Static Source Opening .... CHECK
2. Nose Fuel Sumps ..... DRAIN (3)
3. Engine Heater.. UNPLUG (if necessary)
4. Engine Oil ..... CHECK (7 qts min)
5. Engine Cooling Air Inlets ..... CHECK
6. Propeller & Spinner ..... CHECK
7. Nosewheel Tire & Strut..... CHECK
8. Nosewheel Chocks ..... REMOVE
9. Cowl Plugs..... REMOVE
10. Engine Cooling Air Inlets ..... CHECK
11. Alternator Belt..... CHECK
12. Propeller & Spinner ..... CHECK
13. Air Filter ..... CHECK
14. Left Static Source Opening..... CHECK

#### LEFT WING

1. Left Fuel Quantity & Cap ..... CHECK
2. Left Fuel Tank Vent ..... CHECK
3. Stall Warning Opening..... CHECK
4. Pitot Tube Cover..... REMOVE
5. Landing / Taxi Lights ..... CHECK
6. Left Wing General Condition .... CHECK
7. Left Aileron & Flap..... CHECK
8. Left Wing Tiedown..... REMOVE
9. Left Main Wheel & Tire..... CHECK
10. Left Main Brake Condition ..... CHECK
11. Left Wheel Chocks ..... REMOVE
12. Left Wing Fuel Sumps ..... DRAIN (5)
13. 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. Flight Controls ..... FREE & CORRECT

### 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 ½ INCH
11. Fuel Pump ..... ON
12. Mixture ..... FULL RICH  
until stable fuel flow is indicated (3 to 5 seconds), then set to LEAN CUTOFF
13. Fuel Pump ..... OFF

14. Throttle ..... OPEN 1/2" INCH
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. Oil Pressure ..... CHECK
19. Throttle ..... 1000 RPM
20. Mixture ..... SET FOR ALTITUDE
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. Cowl Flaps ..... OPEN
4. Avionics (Bus 1 & Bus 2) ..... ON
5. Database ..... CHECK CURRENT
6. Flight Plan ..... LOAD
7. Weather / ATIS .... LISTEN & 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 & MFD ..... NO RED X's
5. Altimeters..... SET ALL 3
6. Altitude Preselects ..... SET BOTH
7. Standby Flight Instruments ..... CHECK
8. Fuel Quantity ..... CHECK / RESET
9. Fuel Selector Valve..... BOTH
10. Electric Trim..... CHECK  
Verify non-movement with single switch.  
Verify proper movement with both.  
RH switch – push forward, verify PT illuminates.
11. Trim..... SET FOR TAKEOFF
12. Autopilot..... TEST / VERIFY OFF

#### RUNUP

13. Mixture ..... RICH
14. Throttle..... 1800 RPM
15. Mixture ..... SET FOR ALTITUDE
16. Propeller ..... CYCLE
17. Magnetos ..... CHECK  
175 max drop, 50 max difference
18. Annunciators..... CHECK OFF
19. Engine Indicators ..... CHECK
20. VAC indicator ..... CHECK
21. Ammeters and Volt Meters ..... CHECK
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. Heading Bug ..... SET RWY HDG
33. Lights ..... AS REQUIRED
34. Transponder ..... VERIFY CODE
35. Takeoff Clearance ..... OBTAINED

## NORMAL TAKEOFF

Flaps ..... 0° - 20° (10° Preferred)  
Throttle ..... FULL  
Propeller ..... 2400 RPM  
Lift Nosewheel ..... WHEN ABLE  
Accelerate in G.E. .... TO 70 KIAS  
Climb Airspeed ..... 85 KIAS

## SHORT-FIELD TAKEOFF

Flaps ..... 20°  
Brakes ..... HOLD  
Throttle ..... FULL  
Propeller ..... 2400 RPM  
Mixture ..... ADJUST TO 24 GPH  
Brakes ..... RELEASE  
Rotate ..... 54 KIAS  
Climb Airspeed ..... 67 KIAS  
Wing Flaps ..... RETRACT SLOWLY  
Climb Airspeed ..... 74 to 80 KIAS

## NORMAL CLIMB

Airspeed ..... 85 to 95 KIAS  
Throttle ..... FULL  
Propeller ..... 2400 RPM  
Mixture ..... 15 GPH  
Cowl Flaps ..... OPEN

## CRUISE

Throttle ..... 15 to 23 in MP  
Propeller ..... 2250 RPM  
Elevator Trim ..... ADJUSTED  
Cowl Flaps ..... CLOSED  
Mixture .... LEAN (50° RICH OF PEAK EGT)  
Autopilot ..... AS REQUIRED  
Flight Plan ..... VERIFY

## DESCENT

Throttle ... REDUCE MAXIMUM 1" PER MIN  
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

Fuel (Gas) ..... BOTH  
Undercarriage ..... DOWN AND LOCKED  
Mixture ..... SET  
Propeller ..... HIGH RPM  
Power ..... SET  
Seats & Seatbelts ..... CHECK & ADJUST  
Switches (lights, etc) ..... AS DESIRED  
Autopilot ..... OFF

## LANDING

Downwind ..... 100 KIAS  
Abeam Numbers ..... 95 KIAS / FLAPS 10°  
Base Leg ..... 85 KIAS / FLAPS 20°  
Final Leg .... 75 KIAS / FLAPS AS DESIRED

## GO-AROUND

Throttle ..... FULL  
Flaps ..... RETRACT TO 20°  
Climb Airspeed ..... 55 KIAS  
Flaps ..... RETRACT TO 10° at 70 KIAS  
Cowl Flaps ..... OPEN

## AFTER LANDING

Flaps ..... RETRACT  
Cowl Flaps ..... OPEN  
Lights ..... AS 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 Lock ..... INSTALL
9. Fuel Selector Valve ..... LEFT or RIGHT
10. Hobbs Meter ..... NOTE
11. Wheels ..... CHOCK
12. Tiedowns ..... SECURE
13. Cowl Plugs ..... INSTALL
14. Engine Heater ..... PLUG IN (in Winter)
15. Pftot Tube Cover ..... INSTALL
16. Flight Plan ..... CLOSE

## Telephone Numbers

Flight Service ..... 800 992 7433  
KGJT ASOS ..... 970 245 7881  
KGJT Tower ..... 970 628 2000  
West Star Desk ..... 970 248 5215  
Grand Valley Aircraft ..... 970 314 1109

## AIRCRAFT SPEEDS

V<sub>A</sub> ..... 91 to 110 KIAS  
V<sub>FE</sub> ..... 100 KIAS  
V<sub>NO</sub> ..... 140 KIAS  
V<sub>NE</sub> ..... 175 KIAS  
V<sub>S1</sub> ..... 50 KIAS  
V<sub>S0</sub> ..... 40 KIAS  
V<sub>X</sub> ..... 67 KIAS  
V<sub>Y</sub> ..... 77 KIAS  
Best Glide ..... 76 KIAS

## HOT START PROCEDURE:

1. Mixture ..... LEAN
2. Throttle ..... Full OPEN (IN)
3. Aux Fuel Pump Switch ..... ON for 20 s
4. Mixture ..... RICH momentarily
5. Mixture ..... LEAN
6. Auxiliary Fuel Pump Switch ..... OFF
7. Throttle ..... Half OPEN
8. Starter ..... ENGAGE 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 Switch ..... OFF

## 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

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You may also reach **Bradley Sullivan** at **(970) 210-5527**.



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