

PEAK AVIATION CENTER

1360 AVIATION WAY—COLORADO SPRINGS, CO 80916

CESSNA 172S CHECKLIST—G1000 EQUIPPED

NORMAL LANDING

1. Airspeed (Wing Flaps Up) - **90 KNOTS**
2. Wing Flaps—**WITHIN WHITE ARC: AS DESIRED**
3. Airspeed (Wing Flaps Down) - **65-70 KNOTS**
4. Touchdown—**MAIN WHEELS FIRST**
5. Braking—**MINIMUM REQUIRED**

SHORT FIELD LANDING

1. Airspeed (Wing Flaps Up) - **90 KNOTS**
2. Wing Flaps—**FULL DOWN**
3. Airspeed (Until Flare) - **60 KNOTS**
4. Throttle—**REDUCED TO IDLE AFTER OBSTACLE IS CLEARED**
5. Touchdown—**MAIN WHEELS FIRST**
6. Brakes—**APPLY HEAVILY (AVOID SKIDDING TIRES)**
7. Wing Flaps—**RETRACT**

GO AROUND

1. Throttle—**FULL OPEN**
3. Climbing Airspeed—**60 KNOTS**
4. Wing Flaps—**RETRACT TO 20°**
5. Wing Flaps—**RETRACT TO 10° UNTIL OBSTACLES ARE CLEARED**
-**RETRACT FULLY AFTER REACHING SAFE ALTITUDE**
6. Climbing Airspeed—**73 KNOTS**

AFTER LANDING

1. Wing Flaps—**UP**
2. Unnecessary Lights, Pitot Heat—**OFF**
3. Transponder—**CONFIRM GND MODE**
3. If Landing was Hard: Comm. Radio—**121.5; CHECK FOR SIGNAL**

SHUT DOWN AND SECURING AIRPLANE

1. Avionics Switch—**OFF**
2. Throttle—**IDLE**
3. Magnetos—**CHECK GROUNDING**
4. Throttle—**1,200 RPM**
5. Mixture—**OUT—ENGINE CUTOFF**
6. Throttle—**FULL AFT**
7. Lights—**OFF**
8. Ignition Switch—**OFF**
9. Master Switch—**OFF**
10. Tachometer Time—**RECORD**
11. STBY BATT Switch—**OFF**
12. Fuel Selector—**LEFT TANK**
13. Control Wheel Lock—**INSTALL**
14. Flight Hour Recorder—**CHECK & RECORD**
15. Personal Items and Trash—**REMOVE**
16. Cabin & Baggage Compartment Doors—**LOCK**
17. Flight Plan—**CLOSE**

PREFLIGHT

CABIN

1. Parking Brake — **SET**
2. Flight Hour Recorder — **CHECK AND RECORD**
3. "AROW" Documents — **CHECK**
4. Control Wheel Lock — **REMOVE**
5. Fuel Selector Valve — **BOTH**
6. Fuel Shutoff Valve — **ON (PUSH FULL IN)**
7. Elevator Trim Control — **CHECK OPERATION, SET FOR TAKEOFF**
8. Alternate Static Valve — **OFF**
9. Ignition & Avionics Power Switches — **OFF**
10. Master Switch — **ON**
 - a. Primary Flight Display—**CHECK INITIALIZATION**
 - b. Fuel Gauges — **CHECK QUANTITY**
 - c. Fuel Totalizer—**RESET to Current Level** (Engine, System, Gal Rem)
 - d. Annunciators:
 - LOW FUEL L and R—**VERIFY NOT SHOWN**
 - OIL PRESSURE—**VERIFY SHOWN**
 - LOW VACUUM—**VERIFY SHOWN**
 - LOW VOLTS—**VERIFY SHOWN** (May take a minute to show)
 - e. Avionics Bus 1—**ON, Listen for Fan, OFF** (Repeat for Bus 2)
 - f. Lights/Pitot Heat — **CHECK as Necessary, BEACON ON**
 - g. Wing Flaps — **EXTEND**
11. Master Switch — **OFF**

AFT FUSELAGE AND EMPENNAGE

1. Fuel Tank Sumps Left Tank — **DRAIN & CHECK FUEL—5 SUMPS**
2. Baggage Door — **SECURE**
3. Antennas — **CHECK**
4. Autopilot Static Source—**CHECK CLEAR**
5. Stabilizers, Elevator & Rudder — **CHECK OPERATION & CONDITION**
6. Tail Tie Down — **DISCONNECT**
7. Elevator Trim Tab — **INSPECT**

RIGHT WING

1. Flap — **CHECK SECURITY & CONDITION**
2. Aileron — **CHECK OPERATION & CONDITION**
3. Wing Tie Down — **DISCONNECT**
4. Tire, Wheel, & Brake — **CHECK INFLATION & CONDITION**
5. Fuel Tank Sumps — **DRAIN & CHECK FUEL—5 SUMPS**
6. Fuel Tank — **CHECK FUEL QUANTITY & CAP SECURITY**

NOSE, ENGINE, PROPELLER, & COWLING

1. Engine Cowling — **CHECK SECURITY**
2. Oil Level — **CHECK (MIN: 5qt)**
3. Nose Fuel Sumps — **DRAIN & CHECK FUEL—3 SUMPS**
4. Exhaust Stack — **CHECK SECURITY**
5. Alternator Drive Belt—**CHECK TENSION**
6. Propeller— **CHECK LEADING EDGE & SECURITY**
7. Spinner—**INSPECT THOROUGHLY FOR CRACKS**
8. Engine Cooling Air Inlets — **CHECK CLEAR**
9. Air Filter — **CHECK CLEAR**
10. Nose Wheel, Strut, & Tire — **CHECK INFLATION & CONDITION**
11. Cowling — **SECURE**
12. Static Air Source Opening — **CHECK CLEAR**

LEFT WING

1. Fuel Tank — **CHECK FUEL QUANTITY & CAP SECURITY**
2. Pitot Tube — **CHECK CLEAR**
3. Fuel Tank Vent Tube — **CHECK CLEAR**
4. Stall Warning Opening — **CHECK CLEAR**
5. Landing / Taxi Light—**INSPECT**
6. Wing Tie Down — **REMOVE**
7. Aileron — **CHECK OPERATION AND CONDITION**
8. Flap — **CHECK BACKLASH & CONDITION**
9. Tire, Wheel, & Brake — **CHECK INFLATION & CONDITION**

BEFORE STARTING ENGINE

1. Brakes — **TEST & SET PARKING BRAKE**
2. Cabin Doors — **CLOSED & LOCKED**
3. Passenger Brief —
 - a. Expected WX and Flight Conditions
 - b. Seatbelt Operations, Wear at All Times
 - c. Headset Operation
 - d. Looking for Aircraft
 - e. Sick Sacks
 - f. Ventilation
 - g. How to Radio for Help
 - h. Emergency Situations
4. Seatbelts & Shoulder Harnesses — **ADJUST & LOCK**
5. Circuit Breakers—**CHECK IN**
6. Avionics and Electrical Equipment—**OFF**

STARTING ENGINE

1. Throttle — **CRACKED OPEN 1/4 Inch**
2. Mixture — **IDLE CUTOFF, PULL FULL OUT**
3. STBY BATT Switch—**TEST** (Hold 20 sec, verify light stays illuminated), **ARM** (Verify PFD ON)
4. Engine Indicating System—**CHECK PARAMETERS** (No RED X's on engine indicators)
5. BUS E Volts—**CHECK** (24 VOLTS MINIMUM)
6. M BUS VOLTS—**CHECK** (1.5 VOLTS MAXIMUM)
7. BATT S AMPS—**CHECK** (VERIFY DISCHARGE SHOWN, NEGATIVE)
8. STBY BATT Annunciator—**VERIFY SHOWN**
9. Propeller Area — **VISUAL CHECK AND YELL CLEAR**
10. Master Switch — **ON**
11. Priming Procedure (As Required) (Not Required if Engine is Warm):
 - a. Aux. Fuel Pump Switch—**ON**
 - b. Mixture—**FULL RICH FOR 3-4 SEC THEN IDLE CUTOFF**
 - c. Aux. Fuel Pump Switch—**OFF**
12. Ignition Switch — **START, RELEASE WHEN ENGINE STARTS**
13. Mixture—**ADVANCE WHEN ENGINE STARTS**
14. Oil Pressure — **CHECK** (30 SEC WHEN WARM OUTSIDE; 60 SEC WHEN COLD)
15. Mixture — **ABOVE 3,000 FT. MSL, LEAN FOR GROUND OPS**
16. Flaps — **UP**
17. AMPS (M BATT and BATT S) - **CHECK NORMAL CHARGE** (Slightly positive)
18. LOW VOLTS Annunciator—**CHECK NOT SHOWN**
19. Avionics — **ON**

BEFORE TAXI

1. GPS Receivers—**CHECK READOUTS** (MFD, AUX 3, GPS 1, GPS 2)
2. System Status—**CONFIRM ALL OK** (MFD, AUX 6, LRUs Green)
3. Fuel Totalizer—**CONFIRM READING, SET IF NECESSARY** (MFD, Engine, System, Gal Rem)
4. Flight Instruments—**VERIFY ALL INSTRUMENTS SHOWING NORMAL, SET ALTIMETERS (3)**
5. Taxi Path — **CLEAR**
6. Parking Brake — **OFF**
7. Brakes — **TEST**
8. Flight Controls—**POSITIONED FOR WIND DIRECTION**

BEFORE TAKEOFF—RUNUP

1. Nose Wheel — **STRAIGHT**
2. Parking Brake — **SET**
3. Seats, Seatbelts, & Shoulder Harnesses— **SECURE (CHECK INERTIA REEL)**
4. Cabin Doors — **RECHECK CLOSED & LOCKED**
5. Flight Controls — **FREE & CORRECT MOVEMENT**
6. Fuel Gauges — **RECHECK QUANTITY ADEQUATE FOR INTENDED FLIGHT**
7. Fuel Selector Valve — **RECHECK BOTH**
8. Manual Electric Trim—**CHECK OPERATION**

9. Trim Control — **SET FOR TAKEOFF**
10. Autopilot—**TEST if Necessary, OFF for TAKEOFF**
11. Throttle — **1800 RPM**
 - a. Mixture — **ADJUST FOR ALTITUDE ABOVE 3,000 FT**
 - b. Circuit Breakers — **RECHECK IN**
 - c. Magnetos — **CHECK (150 RPM MAX. DROP; 50 RPM DIFF.)**
 - d. Engine Indicators and VAC Indicator—**CHECK**
 - e. Engine Systems Page—**CHECK INDICATIONS**
 - f. Alternator — **CHECK (AMMETERS & VOLTMETERS)**
 - g. Annunciators—**CHECK (Verify NO Annunclators Shown)**
12. Throttle — **IDLE**
13. Flight Instruments — **CHECK AND SET —**
 - a. PFD—**NO RED X's**
 - b. Transponder - **CHECK CODE and STATUS—GND**
 - c. Airspeed References—**SET and ON**
 - d. Altitude Bugs—**G1000 Bug SET, Autopilot Altitude Alert SET**
 - e. Heading Bug—**SET to Expected Runway Heading**
 - f. Standby Instruments—**CHECK**
13. FMS/GPS—**ENTER FLIGHTPLAN**
14. COM Radios—**SET**
15. NAV Radios—**SET**
16. CDI Softkey—**SELECT Desired CDI Source**
17. Flaps—**SET for TAKEOFF**
18. Takeoff Brief—**PERFORM**
19. Lights—**SET FOR TAKEOFF**
20. Parking Brake — **RELEASE**

NORMAL TAKEOFF

1. Wing Flaps — **0—10 Degrees**
2. Throttle — **FULL OPEN**
3. Elevator Control — **BEGIN ROTATION AT 55 KNOTS**
4. Climbing Airspeed — **73 KNOTS**
5. Wing Flaps—**RETRACT at Safe Altitude**

MAXIMUM PERFORMANCE TAKEOFF

1. Wing Flaps — **10°**
2. Brakes — **APPLY & HOLD**
3. Throttle — **FULL OPEN**
4. Mixture—**ADJUST FOR ALTITUDE, MAX RPM**
5. Brakes — **RELEASE**
6. Elevator Control — **SLIGHTLY TAIL LOW, ROTATE AND CLIMB AT 56 KNOTS**
7. Wing Flaps—**RETRACT at Safe Altitude**

CLIMB

1. Airspeed — **70-85 KNOTS**
2. Throttle — **FULL OPEN**
3. Lights—**AS DESIRED**
4. Mixture—**ADJUST FOR ALTITUDE**
5. Transponder—**CONFIRM SQUAWKING ALTITUDE**

CRUISE

1. Taxi and Landing Lights—**OFF**
2. Throttle — **2100 to 2700 RPM**
3. Trim — **ADJUST AS REQUIRED**
4. Mixture — **ADJUST FOR ALTITUDE**

DESCENT / BEFORE LANDING

1. Fuel Selector Valve — **BOTH**
2. Mixture — **ADJUST FOR ALTITUDE**
3. Power — **AS DESIRED**
4. Seat, Seatbelts, & Shoulder Harnesses — **SECURE**
5. Landing Check List — **REVIEW**
6. LGUMPS—**COMPLETE**