

**WNC AVIATION -C172S****G1000****INTERIOR**

Weight & Balance.....Checked  
 Papers.....AROW/G1000 Cockpit Ref  
 Hobbs / Tach Time .....Checked  
 Maintenance Status .....Checked  
 Control Lock ..... Remove  
 Master Switch .....On  
 Avionics Fans ..... Checked 1 & 2  
 Fuel ..... Gauges Check  
 Fuel shutoff .....On  
 Flaps .....Extend  
 Light Check ..... As Required  
 Master Switch ..... Off

**EXTERIOR**

Fuel Quantity & Quality..... Verify  
 Caps / Drains / Vents  
 Engine / Oil / Alt. Belt  
 Prop / Air Intake/Exhaust System  
 Stall Indicator - Test  
 Surfaces & Controls  
 Pitot & Static Ports  
 Gear / Tires / Brakes  
 Antennas  
 Ties / Chocks  
 Baggage Door-locked  
 Final Walkaround

**BEFORE START**

Passenger..... Brief  
 Seat Belts .....Harness  
 Fuel Selector .....Both  
 Fuel Shutoff Valve .....On  
 Alternate Static..... Checked/Off  
 Circuit Breakers ..... In  
 Beacon.....On  
 Avionics Master..... Off  
 Brakes .....Pedal Test  
 Seat Track/Back..... Lock

**STARTING**

Stby Btry..... Test 10 sec/then arm  
 PFD..... on  
 Eng Ind..... No red X  
 M Bus / E bus .....< 1.5 V / 24 V  
 M Btry/S Btry..... 0 / Discharge

**STARTING(ctnd)**

Throttle ..... 1/4 Inch  
 Brakes ..... Hold  
 Master Switch ..... On

**COLD START**

Fuel Pump..... On  
 Mixture Adv. .... Fuel flow rise  
 Mixture ..... Full lean\*\*  
 Fuel Pump.....Off  
 Prop .....Verbal Clear\*\*  
 Mags ..... Start\*\*  
 Mixture ..... Rich On Start\*\*

**\*\*HOT START procedures**

RPM ..... 1000  
 Oil Pressure..... Check  
 Vacuum ..... Check  
 Amps/Volts ..... Check  
 Avionics Master ..... On  
 Circuit Breakers..... Check  
 Mixture ..... Ground Lean as required  
 Flaps ..... Up  
 Fuel Quantity..... Set

**RUNUP**

Brakes ..... Hold  
 Controls..... Free & Corr.  
 Stby Attitude Indicator ..... Set  
 Heading Indicator ..... Checked  
 Throttle ..... 1800 RPM  
 Mags Check..... 175 max/50 diff  
 Oil Pressure & Temp..... Check  
 Vacuum .....Green  
 Amps/Volts ..... Check  
 Annunciators.....None lit  
 Mixture ..... Full Rich  
 Idle ..... Smooth 600-800 rpm/then 1000  
 Mixture ..... Ground Lean as required  
 Auto Pilot ..... Checked  
 Transponder .....Code checked/Alt

**TAXI**

Lights .....As required  
 Instrmnts/Radios..... Set  
 Brakes ..... Test  
 Flight Instruments ..... Check

**PRE - TAKEOFF**

Fuel Selector ..... Both  
 Fuel Shutoff valve..... On  
 Trim..... Set  
 Flaps .....0°-10°  
 Mixture..... Best Power  
 Lndg. Light/ Strokes ..... On  
 Radios & Instruments ..... Setup  
 Transponder ..... Code checked/Alt  
 Auto Pilot ..... Off  
 Doors Windows ..... Closed & Locked  
 Abort Plan ..... Reviewed  
 Final ..... Clear  
 Time Off ..... Record

**TAKEOFF**

Rotate ..... 55 Knots  
 Climbout ..... 74 Knots (Vy) 62 Knots (Vx)

**CRUISE**

Power..... Set To Cruise  
 Mixture..... Peak Then 50° rich  
 Heading Indicator.....Checked  
 Landing Light..... Off

**PRE-LANDING**

Fuel ..... Both  
 Mixture.....Rich  
 Lndg. Lt..... On/As Desired  
 Seat Belt..... All fastened  
 Flaps ..... As Required

**AFTER LANDING**

Flaps .....Retract  
 Lights / Elect. Equip ..... Off/As required  
 Mixture..... Ground Lean  
 Transponder ..... Alt

**SHUTDOWN**

Avionics Master..... Off  
 Idle ..... Dead Mag check then1000 RPM  
 All Electrical except Beacon ..... Off  
 Mixture..... Full Lean  
 Mags & Master ..... Off  
 Fuel Selector/Shutoff Valve ..... Left/Off  
 Hobbs / Tach Time..... Record  
 Standby Battery..... Off  
 Control Lock & Pitot Cover .....Install  
 Chocks & Tiedowns .....Install  
**CLOSE FLIGHT PLAN**

**Engine Failure during Takeoff Roll**

- Throttle..... Idle**
- Brakes ..... Apply**
- Flaps ..... Up
- Mixture ..... As Required
- Magnetos ..... As Required
- Stby Battery Switch..... Off
- Master Switch ..... As Required

**Engine Failure Immediately After T/O**

- Airspeed ..... 70/65 (Flaps up /down)**
- Flaps ..... Full before T/D**
- Fuel Shutoff Valve ..... Pull/off**
- Mixture ..... Full lean**
- Master Switch ..... Off**
- Stby Battery ..... Off**

**Engine Failure in Flight**

- Airspeed ..... 68 KIAS(trim)**
- Aux Fuel Pump ..... On**
- Fuel Selector ..... Both**
- Fuel Shutoff Valve ..... Push/on**
- Mixture ..... Adjust**
- Throttle..... Adjust**
- Magnetos ..... Check R, L & Both**

*-----if no start-----*

**Emergency Landing without Power**

- Aux Fuel Pump ..... Off**
- Fuel Shutoff Valve ..... Pull/off**
- Mixture ..... Full lean**
- Magnetos ..... Off**
- Stby Battery ..... Off**
- Flaps ..... As required- Full before T/D**
- Master Switch ..... Off**
- Seat backs..... Upright**
- Seat belts ..... Secure**
- Doors ..... Unlatch before Touchdown**

**Precautionary Landing**

- Seat backs ..... Upright
  - Seat belts ..... Secure
  - Flaps ..... As required- Full before T/D
  - Airspeed..... 60-65 KIAS
  - Doors ..... Unlatch before Touchdown
  - Standby Battery ..... Off
  - Master Switch ..... Off
- After Touchdown---*
- Mixture ..... Full lean
  - Magnetos ..... Off

**Engine Fire during Start**

- Cranking ..... Continue**
- If engine starts----*

- Power ..... 1800 rpm/30-60 sec**
- Mixture ..... Full Lean**
- Magnetos, Master ..... Off**
- If engine does not start----*

- Throttle ..... full open**
- Mixture ..... Full lean**
- Cranking ..... Continue(30 sec max)**
- Fuel shutoff valve ..... Pull/off**
- Magnetos..... Off**
- Stby Battery ..... Off**
- Master Switch ..... Off**
- Evacuate Aircraft**

**Engine Fire In Flight**

- Fuel shutoff valve ..... Pull/off**
- Mixture ..... Full lean**
- Aux Fuel Pump ..... Check-off**
- Cabin Heat and Air Vents ..... Off**
- Airspeed ..... 100 KIAS**
- Execute Emergency Landing**

**Electrical Fire in Flight**

- Stby Battery ..... Off**
- Master Switch ..... Off**
- Cabin Heat and Air Vents ..... Off**
- Fire Extinguisher..... Activate as required**
- After Fire is extinguished----*

- Cabin Heat and Air Vents ..... Open
- All Electrical Switches ..... Off
- Circuit Breakers ..... Check(Do not Reset)
- Master Switch ..... On
- Avionics Master ..... On(1 bus at a time)
- Radios & electrical equipment ..... On 1 at a time as required to terminate flight

**CABIN FIRE**

- Stby Battery ..... Off**
- Master Switch ..... Off**
- Cabin Heat & Air Vents..... Closed/Off**
- Fire Extinguisher ..... Activate as req.**
- After Fire is extinguished----*
- Cabin Heat & Air vents ..... On**

**Wing Fire**

- Exterior light switches..... Off**
- Pitot heat ..... Off**
- Side slip as required to keep flames away from tank and cabin**
- Land as soon as possible using flaps only as required**

**High Voltage**

- Alternator ..... Off**
- Nonessential Electrical Equip ..... Off
- Refer to Cessna checklist for load reduction procedure

**Land as soon as practical**

**Low Voltage**

- Alternator Switch ..... Off
- Alternator Field Circuit Breaker ..... Check In
- Alternator Switch ..... On
- Low Voltage Annunciator..... Check Off
- Voltmeter ..... >27.5 Volts
- Ammeter ..... Positive
- If low volt Annunciator remains on or comes on again*
- Alternator ..... Off
- Nonessential Electrical Equip ..... Off
- Refer to Cessna checklist for load reduction procedure

**AHRS or ADC FAILURE**

- ADC failure indicated by Red X on Altimeter and/or Airspeed Indicator
- AHRS failure indicated by Red X on HSI heading and/or Attitude display
- AHRS/ADC circuit breakers..... Check in ..... (On Essential & Avionics bus 1)
- Refer to Cessna Checklist