

WNC AVIATION -C172S

Nav II Equipped

INTERIOR

Weight & Balancechecked
PapersA.R.O.W.
Hobbs / Tach Time..... Record
Maintenance Status Checked
Control LockRemove
Master Switch..... On
Fuel Gauges Check
Fuel shutoff..... On
Flaps Extend
Light Check..... As Required
Master Switch..... Off

EXTERIOR

Fuel Quantity & Quality /Caps / Drains / Vents
Stall Indicator - Test
Baggage Door
Engine / Oil / Belt / Prop / Air Intake/Exhaust
Fuselage & Wing Surfaces & Controls
Pitot & Static Ports
Gear / Tires / Brakes
Antennas
Ties / Chocks
Final Check

BEFORE START

Passenger Brief
Seat BeltsFastened
Fuel Selector Both
Fuel Shutoff Valve On
Alternate StaticChecked/Off
Avionics Master..... Off
Circuit BreakersIn
Beacon..... On
Brakes..... Pedal Test
Seat Track/Back Lock

STARTING

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
Amps/Volts Check
Vacuum Check
Circuit Breakers..... Check
Avionics Master On
Mixture Ground Lean as required
Flaps Up

RUNUP

Brakes Hold
Controls..... Free & Corr.
Attitude & Heading Indicators Set
Throttle 1800 RPM
Mags Check..... 150 max/50 diff
VacuumGreen
Amps/Volts Check
Oil Pressure & Temp..... Check
Annunciator Panel Test
Mixture Full Rich
Idle Smooth 600-800 rpm/then 1000
Mixture Ground Lean as required
Auto Pilot Check/as required

TAXI

LightsAs required
Instrmnts/Radios..... Set
Transponder Check code/On
Brakes Test
Flight Instruments Check

PRE - TAKEOFF

Fuel Selector Both
Fuel Shutoff valve..... On
Trim..... Set
Flaps0°-10°
Mixture..... Best Power
Lndg. Light/Strobes On
Radios & Instruments Setup
Transponder Check code/On
Auto Pilot Off
Doors Windows Closed & Locked
Abort Plan Reviewed
Final Clear
Time Off Record

TAKEOFF

Rotate 55 Knots
Climbout74 Knots (Vy)/62 Knots (Vx)

CRUISE

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

PRE-LANDING

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

AFTER LANDING

FlapsRetract
Lights / Elect. Equip Off/As required
Mixture..... Ground Lean

SHUTDOWN

Avionics Master..... Off
Idle Dead Mag check
1000 RPM
All Electrical except Beacon Off
Mixture..... Full Lean
Mags & Master Off
Fuel Selector/Shutoff..... Left/Off
Hobbs / Tach Time..... Record
Control Lock & Pitot CoverInstall
Chocks / Tie Down
CLOSE FLIGHT PLAN

Engine Failure during Takeoff Roll

- Throttle..... Idle
- Brakes Apply
- Flaps Up
- Mixture As Required
- Magnetos As Required
- Master Switch As Required

Engine Failure Immediately After T/O

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

Engine Fire during Start

- Cranking Continue
- If engine starts-----*
- Power 1800 rpm/30-60 sec
- Mixture 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
- Master Switch Off
- Magnetos..... 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

- 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

- 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
- Land as soon as practical

Low Voltage

- Avionics Master Switch..... Off
- Alternator Circuit Breaker Check In
- Master Switch Off
- Master Switch On(after 5 minutes)
- Low Voltage Annunciator..... Check Off
- Avionics Master On
- Voltmeter >27.5 Volts
- Ammeter Positive

If low volt Annunciator remains on or comes on again

- Alternator Off
- Nonessential Electrical Equip Off