

**NW KRAFT**

NOTAMS  
 Weather  
 Known Traffic Delays  
 Runways  
 Alternates  
 Fuel and Frequencies  
 T.O.L.D.

**FUEL/OIL/CABIN**

Fuel- **AMOUNT & SUMP**  
 5 - 7 qts  
*\*CHECK ALL CAPS SECURE\**  
 Fuel Sump- **STOW**  
 Control Lock- **REMOVE**  
 A.R.O.W.- **CONFIRM**  
 Battery Master- **ON**  
 Fuel Gauges- **CONFIRM**  
 All Lights- **ON**  
 Pitot Heat- **ON**  
 Flaps- **EXTEND**  
*\*Brisk walk around to confirm Lights/Pitot Heat\**  
 Battery Master- **OFF**

**EXTERIOR CHECK**

*\*Start from pilot door and proceed clockwise\**  
*\*Ensure all control/flight surfaces free of frost/snow. Verify no leaks/puddles.\**  
 Left FLAP & AILERON  
 Left GEAR / TIRE / BRAKE  
 Remove Tie Down  
 Windshield  
 Engine Cowl  
 Nose GEAR / TIRE  
 Prop & Spinner  
 Alternator Belt  
 Cooling Air Inlets  
 Right GEAR / TIRE / BRAKE  
 Remove Tie Down  
 Right AILERON & FLAP  
 Antennas  
 Static Port  
 Tail & Elevator  
 Baggage Door

**BEFORE START**

Passengers- **BRIEF**  
 Hobbs / Tach- **RECORD**  
 Fuel Selector- **BOTH**  
 Circuit Breakers- **CHECK**  
 Alternate Static- **OFF**  
 Seat Back & Track- **SET**

**COLD START**

Avionics- **OFF**  
 All Other Switches- **OFF**  
 Mixture- **FULL RICH**  
 Carb Heat- **OFF**  
 Throttle- **SLIGHT**  
 Parking Brake- **SET**  
 Battery & Alternator- **ON**  
 Beacon- **ON**  
 Primer- **AS REQUIRED**  
**\*CLEAR PROP\***  
 Starter- **ENGAGE(10s MAX)**  
 Throttle- **800-1000 RPM**  
 Oil Pressure- **CHECK**  
 Primer- **LOCKED**  
**MIXTURE- LEAN TILL ROUGH**

**HOT START**

Same as procedure above  
*EXCLUDING Primer*

**BEFORE TAXI**

Seat Belts / Harness- **SET**  
 Flaps- **UP**  
 Air / Heat Vents- **ADJUST**  
 Avionics Master- **ON**  
 Weather- **OBTAIN**  
 HDG/ALT- **SET**  
 Transponder- **CONFIRM ON**  
 Nav/Taxi Lights- **AS NEEDED**  
 Parking Brake- **RELEASE**  
 Throttle- **800 – 1200 RPM**  
 Brakes- **TEST GENTLY**  
 Flight Controls- **CROSSWIND**  
**BRAKES- DO NOT RIDE**  
**Throttle- MINIMUM NEEDED**

**RUN UP**

Parking Brake- **SET**  
 Brakes- **HOLD**  
 Fuel Selector- **BOTH**  
 Trim- **TAKEOFF**  
 Flight Controls- **TEST**  
 Instruments- **CORRECT**  
 Mixture- **RICH**  
 Throttle- **1700 RPM**  
 Magnetos- **DROP 50/50<125**  
 Carb Heat- **SMALL DROP**  
 Oil- **TEMP & PRESS**  
 Vacuum- **CHECK**  
 Amps- **POSITIVE**  
 Throttle- **IDLE CHECK**

**PRE-TAKEOFF**

Trim- **SET**

Flaps- **UP**  
 Transponder- **SQUAWK CODE**  
 Carb Heat- **OFF**  
 Landing Light- **ON**  
 Strobes- **ON**  
 Pitot Heat- **AS REQUIRED**  
 Abort Plan- **READY**  
 Doors & Windows- **CLOSED**  
*Obtain Clearance/Make Call*

**MIXTURE- RICH****TAKEOFF**

Throttle- **SMOOTH TO FULL**  
 RPM- **2300 or GREATER**  
 Oil Pressure- **GREEN**  
 Airspeed- **ALIVE**  
 Centerline- **MAINTAIN**  
 Rotate- **55 KTS**  
 Vy- **76KTS**

**CLIMB**

Cruise Climb- **75-85KTS**  
 Throttle- **FULL**  
 Mixture- **AS REQUIRED**  
 Instruments- **CORRECT**  
 Lights- **AS REQUIRED**  
*\*Activate Flight Plan or Flight Following\**

**CRUISE**

Pitch- **LEVEL**  
 Power- **2400-2700 RPM**  
 Trim- **SET**  
 Mixture- **LEAN AS NEEDED**  
 Fuel Selector- **BOTH**  
 H.I.- **SET TO COMPASS**  
 Landing Light- **OFF**

**DESCENT**

WEATHER- **OBTAIN**  
 Instruments- **SET**  
*Reduce power or trim nose down.*  
 Mixture- **AS REQUIRED**  
 Carb Heat- **AS REQUIRED**  
 Brakes- **PEDAL TEST**  
 Landing Light- **ON**

**LANDING**

Seats & Seat Belts- **SECURE**  
 Fuel Selector **BOTH**  
 Mixture- **SET**  
 Carb Heat **ON/OUT**  
 Flaps- **AS NEEDED**  
 Switches (lights & fuel boost)- **SET**  
 Final Approach- **65 KTS**  
*\*Braking maximized with flaps retracted\**

**GO AROUND**

Carb Heat- **OFF**  
 Throttle- **FULL**  
 Airspeed- **76 KTS**  
 Trim- **ADJUST**  
 Flaps- **RETRACT SLOWLY**

**AFTER LANDING**

*\*Clear of runway\**  
 Flaps- **UP**  
 Transponder- **1200**  
 Carb Heat- **OFF**  
 Taxi/Landing- **AS REQUIRED**  
 Strobes- **OFF**  
 Pitot Heat- **OFF**  
**MIXTURE- LEAN TILL ROUGH**

**SHUT DOWN**

Avionics Master- **OFF**  
 Lights- **OFF**  
 Mixture- **IDLE CUT OFF**  
 Battery & Alternator- **OFF**  
*\*Wait for propeller to stop\**  
 Magnetos- **OFF**  
*\*Lock controls and install chocks as needed\**

**V Speeds KTS**

Vne- **158**  
 Vno- **127**  
 Va 2400 lbs- **99**  
 Va 2000 lbs- **92**  
 Vfe- **110/85**  
 Vg- **65**  
 Vy- **75**  
 Vx- **56**  
 Vr- **55**  
 Vs- **44**  
 Vso- **33**  
 X Wind- **15**

**ENGINE FAILURE**

**TAKE OFF ROLL**  
 Throttle- **CLOSED**  
 Braking- **MAXIMUM**  
 Mixture- **IDLE CUT-OFF**  
 Battery & Alternator- **OFF**  
 Magnetos- **OFF**

**AFTER LIFTOFF / IN FLIGHT**

*Landing straight ahead is usually advisable. If sufficient altitude is available, accomplish the following:*  
 Airspeed **65 KTS**  
 Carb Heat **ON/OUT**  
 Fuel Selector **BOTH**  
 Mixture **RICH**  
 Ignition **BOTH**  
*Start if propeller is stopped*  
 Primer **IN/LOCKED**  
**IF NO RESTART**

Airspeed- **65 KTS**  
 Best Landing Spot- **FIND**  
 Throttle- **CLOSED**  
 Fuel Selector- **OFF**  
 Mixture- **IDLE CUT OFF**  
 Magnetos- **OFF**  
*When landing assured*  
 Airspeed- **60 KTS**  
 \*Flaps- **AS REQUIRED**  
 \*Battery & Alternator- **OFF**  
 Doors- **UNLATCHED**

**ENGINE FIRE**

**IN FLIGHT**  
 Fuel Selector- **OFF**  
 Mixture- **IDLE CUT OFF**  
 Battery & Alternator- **OFF**  
 Cabin Heat and Air- **PUSH OFF**  
*Except Overhead Vents*  
**\*EMERGENCY DESCENT\***  
 Throttle- **IDLE**  
 Airspeed- **>100 KTS**

**ON GROUND**

Starter- **HOLD**  
*IF ENGINE STARTS*  
 POWER- **1700 RPM**  
*AFTER A MINUTE OR IF ENGINE FAILS TO START*  
 Fuel Selector- **OFF**  
 Throttle- **CLOSED**  
 Mixture- **IDLE CUT OFF**  
 Battery & Alternator- **OFF**  
**EXTINGUISH FIRE**

**ENGINE ROUGHNESS**

Mixture- **ADJUST**  
 Carb Heat- **CYCLE**  
 Magnetos- **CYCLE**  
*If operation on one magneto stops roughness, proceed to landing as soon as practicable*

**LOSS OF ENGINE POWER**

Mixture- **RICH**  
 Mixture- **ADJUST**  
*If no improvement then:*  
 Fuel Gauges- **CHECK**  
 Fuel Selector- **SWITCH TANK**  
 Engine Instruments- **CHECK**  
*If condition continues, land as soon as practical*

**LOW OIL PSI / HIGH TEMP.**

*Land as soon as practical Prepare for engine failure*

**ALTERNATOR OUT**

Alternator- **CYCLE OFF / ON**  
*If condition persists*  
 Alternator- **OFF**  
 Nonessential Items- **OFF**

**RADIO FAILURE**

Volume Knob- **CHECK ON**  
 Audio Panel- **CHECK**  
 Circuit Breakers- **CHECK**  
 Avionics Master- **OFF / ON**  
 Headset- **CHECK**

**EMERGENCY RADIO CALL:**

121.5 or ATC Frequency  
**MAYDAY MAYDAY MAYDAY,**  
 Aircraft Callsign,  
 Location,  
 Number of Souls On Board,  
 Fuel Remaining,  
 Nature of emergency.

**TRANSPONDER CODES**

7700- **EMERGENCY**  
 7600- **RADIO FAILURE**  
 7500- **HIJACKING**  
 1200- **VFR**

**OTFA Checklist C172P v1.6**