

**WNC AVIATION
PIPER ARROW PA28R-200
INTERIOR**

Weight & Balance checked
Papers A.R.O.W.
Hobbs / Tach Time Record
Maintenance Status Checked
Control Lock Remove
Gear Lever Down
Master Switch On
Gear Lights Green
Fuel Gauges Check
Stall Indicator Test
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

Flaps Up
Passenger Brief
Seat Belts Fastened
Fuel Selector Desired Tank
Autopilot Off
Alternate Static Off
Beacon Fin On
Avionics Master Off
Circuit Breakers In
Brakes Pedal Test
Seat Track/Back Lock

STARTING

Brakes Hold
Throttle Slight
Prop High RPM
Master Switch On
Fuel Pump On
Mixture Adv Fuel flow rise
Mixture Full lean
Prop Verbal Clear
Mags Start

Mixture Rich On Start
RPM 1000
Oil Pressure Check
Amps Check
Fuel Pump Off
Fuel Pressure Checked
Circuit Breakers Check
Avionics Master On
Vacuum Check
Standby vacuum system Test
Mixture Ground Lean

TAXI

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

RUNUP

Brakes Hold
Fuel Selector Switch tanks
Controls Free & Corr.
Attitude & Heading Indicators Set
Throttle 2000 RPM
Propeller Exercise
Alter Air Intake Test/Close
Mags Check 175 max/50 diff
Oil Pressure & Temp Check
Ammeter Check
Vacuum 4.8-5.1
Mixture Full Rich
Idle Smooth 600-800 rpm/then 1000

PRE - TAKEOFF

Fuel Selector Verify Proper Tank
Trim Set
Flaps 0° or 25°
Auto Pilot Off
Mixture Best Power
Propeller High RPM
Fuel Pump On
Lndg. Light Main on/Tips as desired
Beacon Both On
Radios & Instruments Setup
Transponder ALT
Doors Windows Closed & Locked
Abort Plan Reviewed
Final Clear
Time Off Record

TAKEOFF

Rotate 65 mph
Gear Retract
Climbout 100 mph (Vy)/96 mph (Vx)

CLIMB

Power \geq 1000 AGL Set 25"/2500 RPM
Fuel Pump >2000AGL Off

CRUISE

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

PRE-LANDING

Autopilot Off
Fuel Pump On
Fuel Fullest Tank
Mixture Rich
Lndg. Lt. On/As Desired
Seat Belt All fastened
Landing Gear Down
Propeller High RPM
Flaps As Required

AFTER LANDING

Flaps Retract
Fuel Pump Off
Lights / Elect. Equip Off/As required
Transponder Stby
Mixture Ground Lean

SHUTDOWN

Avionics Master Off
Idle Dead Mag check then 1000 RPM
All Electrical except Beacon Off
Mixture Full Lean
Mags & Master Off
Hobbs / Tach Time Record
Control Lock & Pitot Cover Install
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 pitch down to maintain AS
Flaps Full before T/D
Fuel Selector Off
Mixture Full lean
Master Switch Off

Engine Failure in Flight

Airspeed 105 MPH(trim)
Aux Fuel Pump On
Fuel Selector Switch Tanks
Mixture Adjust
Throttle Adjust
Alternate Intake Air On
Magnetos Check R, L & Both
-----if no start-----

Emergency Landing without Power

Propeller Low RPM
Aux Fuel Pump Off
Fuel Selector Off
Mixture Full lean
Magnetos Off
Gear As required
Master Switch Off
Flaps As required- Full before T/D
Seat backs Upright
Seat belts Secure
Door Unlatch before Touchdown

Precautionary Landing

Seat backs Upright
Seat belts Secure
Flaps As required- Full before T/D
Airspeed 80 mph
Door Unlatch before Touchdown
Master Switch Off
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 selector Off
Master Switch Off
Magnetos Off
Evacuate Aircraft

Engine Fire In Flight

Fuel selector Off
Mixture Full lean
Aux Fuel Pump Check-off
Cabin Heat and Air Vents Off
Airspeed 120 mph
Execute Emergency Landing

Electrical Fire in Flight

Master Switch Off
Cabin Heat and Air Vents Off
-----If Fire goes out-----
Cabin Heat and Air Vents Open
If electrical power required for flight
All Electrical Switches Off
Circuit Breakers Check(Do not Reset)
Master Switch On
Avionics Master On
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 fuel 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
Alternator Switch Off
Alternator Switch On(after 5 seconds)
Avionics Master On
Voltmeter >12 Volts
Ammeter Positive
If low voltage or 0 amps is noted again
Alternator Off
Nonessential Electrical Equip Off

EMERGENCY GEAR EXTENSION

make these checks before manual extension
Circuit breakers Check
Master Switch On
Ammeter Check
Interior Lights Off (daytime)
manual extension
Airspeed 100 mph maximum
Gear selector Down
Emergency Gear Lever Down & Hold
Indicator Lights Check 3 green
If there is no down and locked indication yaw
the airplane side to side.