

Emergency Procedures

Fire Engine Failure

ENGINE FIRE DURING START

**** Con't Cranking Until Engine Starts ****

Mixture.....Idle Cut Off
Throttle.....Full Open
Full Pump.....OFF
Fuel Selector.....OFF
Magnetos.....OFF
Master Switch.....OFF
Door.....Open and Evacuate Aircraft

ENGINE FIRE DURING TAXI

Fuel Selector.....OFF
Aircraft.....STOP
Mixture.....Idle Cut OFF
Master Switch.....OFF
Magnetos.....OFF
Door.....Open and Evacuate Aircraft

ENGINE FIRE DURING FLIGHT

Fuel Selector.....OFF
Fuel Pump.....OFF
Mixture.....Idle Cut Off
Master.....OFF
Cabin Heat / Air.....OFF
Airspeed.....100+ KIAS
Best Landing Site.....SELECTED
Door.....AJAR
Flaps.....As Required
Forced Landing.....EXECUTE

ELECTRICAL FIRE

Master Switch.....OFF
Vents.....Open As Needed
Cabin Heat.....OFF
Land.....AS SOON AS PRACTICAL

Sufficient Altitude for Restart?

NO: See "Securing Engine" Procedure

YES: Attempt Restart

Airspeed.....73 KIAS
Fuel Selector.....Opposite Tank
Fuel Pump.....ON
Mixture.....Enrichen As Required
Throttle.....Adjust / Set
Carb Heat.....ON
Magnetos.....Left / Right / Both
Best Landing Site.....Selected

Did Engine Restart?

YES: LAND AS SOON AS PRACTICAL

NO: Prepare for a Forced Landing

MayDay.....Transmit (121.5)
Transponder.....7700
See "Securing Engine" Procedure

SECURING ENGINE

Best Landing Site.....Selected
Airspeed.....73 KIAS
Mixture.....Idle Cut Off
ELT.....Activate
Magnetos.....OFF
Fuel Selector.....OFF
Seatbelts.....Secure
Master Switch.....OFF
Door.....AJAR
Flaps.....As Required
Land.....Evacuate Aircraft



rev. 06/2021

N2069M Piper Warrior III

Preflight

Fuel & Oil (visual).....Check
To reduce delay if fuel/oil is needed

Call SunAir (805) 389-9301

CABIN

Hobbs/Tach.....Verify
Certs/Documents.....Check
Control Lock.....Remove
Master (BAT).....ON
Flaps.....Extend
Lights and Pitot HeatON & Check
Master (BAT).....OFF

RIGHT WING

Flap Hinges.....Check
Aileron.....Check
Leading Edge.....Check
Fuel Quantity.....Check
Fuel Vent.....Clear
Fuel Strainer.....Sample
Strut.....Check
Brakes & Tire.....Check

NOSE

Engine Condition.....Check
Oil Quantity.....6-8 qts
Prop Blade.....Check
Air Intake.....Clear
Alternator Belt.....Check
Nose Gear Strut.....Check
Nose Gear Tire.....Check

LEFT WING

Brakes & Tire.....Check
Strut.....Check
Fuel Vent.....Clear
Fuel Strainer.....Sample
Fuel Quantity.....Check
Stall Indicator.....Check
Leading Edge.....Check
Pitot Mast.....Clear

LEFT WING CONTINUED...

Aileron.....Check
Flap Hinges.....Check

TAIL

Antennas.....Check
Stabilator.....Check
Rudder.....Check

Final Tarmac / Ramp Check

Ramp/TieDown/Chocks.....All Clear

Engine Start

PRE-ENGINE START

Seats.....Adjusted
Seat Belts.....On
Headsets.....Plugged In
Keys.....In and Ready
Avionics Master.....Verify OFF
Master (ALT & BAT).....ON
Beacon Light.....ON
Nav Lights (night).....(As Required)
**** If engine is hot or flooded, see "Special Start Procedures" ****

Mixture.....Rich
Throttle.....1/4" Open
Primer.....1-3 Pumps & Locked
Fuel Pump.....ON

ENGINE START

Brakes.....Engaged
Prop Area.....Clear
Starter.....START
Throttle.....1000 RPM
Oil Pressure.....Check
Fuel Pump.....OFF
Mixture.....Lean 50%
Avionics.....ON
Circuit Breakers.....Check
Transponder.....Set

Run Up

PRE- TAXI

Brakes.....Check
ATIS/ASOS (if available).....Listen

TAXI (IFR)

Heading Indicator.....Turns
Turn Coordinator-Turns & Ball Skids

ENGINE RUN-UP

Fuel.....Fulllest Tank
Brakes.....Engaged
Mixture.....Rich (or As Required)
Throttle.....2000 RPM
Eng. Instruments.....Check
Right Magneto.....<175 RPM drop
.....Back to Both.....
Left Magneto.....<175 RPM drop
.....Back to Both.....
Vacuum Gage.....4.8-5.2
Annunciators.....Test/Check
AMP Meter.....Check
Carb Heat.....Cycle & Check
Throttle.....Idle Check
Throttle.....1000 RPM
Mixture.....Lean 50%
Flight Controls.....Free & Correct
Flight Instruments.....Set
Flaps & Trim.....Set

AVIONICS

GPS.....Programmed
Radios.....Set

BEFORE TAKE-OFF

Doors/Windows.....Secured
Lights.....As Required
DG.....Set and Check
Fuel Pump.....ON
Mixture.....Rich (As Required)

Takeoff

Throttle.....FULL OPEN
Rotate.....Vr - 50 KIAS

TAKEOFF CONTINUED...

Climb.....Vy - 79 KIAS
Fuel Pump.....OFF
Flaps.....UP

Cruise

CRUISE - CLIMB

Climb Speed.....87 KIAS

CRUISE

Mixture.....Lean (Rich of Peak)

Approach

DESCENT

Power.....Reduce as Needed
Mixture.....Enrichen As Required
ATIS/ASOS.....Listen
Flight Instruments.....Check / Set
Lights.....As Required
Fuel Selector.....Fulllest Tank
Seat Belts.....Secure
FINAL APPROACH
Fuel Pump.....ON
Mixture.....Set for "Go-Around" Power
Flaps.....Set
Initial Approach.....70 KIAS
Short Final.....63 KIAS (Flaps Down)

After Landing

EXITING RUNWAY

Flaps.....Retract
Fuel Pump.....OFF
Mixture.....Lean 50%
Lights.....As Required

ENGINE SHUTDOWN

Avionics & Transponder.....OFF
Mixture.....LEAN / CUT OFF
Throttle.....Idle
Ignition Key.....OFF and OUT
Master (ALT & BAT).....OFF

Securing Aircraft

INSIDE

Hobbs/Tach.....Record
Pilot Window.....Closed & Latched
Flight Controls.....Secured (with belt)

EXTERNAL

Pilot/Passenger Door.....Locked
Tiedown/Chocks.....Installed

Special Start Procedures

HOT START

Throttle.....1/2" Open
Mixture.....Rich
Fuel Pump.....ON
Brakes.....Engaged
Prop Area.....Clear
Starter.....START
Throttle.....1000 RPM
Oil Pressure.....Check
Mixture.....Lean 50%

FLOODED START

Master Switch.....OFF
Wait.....4 Minutes
Master Switch.....ON
Mixture.....IDLE CUT OFF
Throttle.....FULL OPEN
Brakes.....Engaged
Prop Area.....Clear
Starter.....START
Mixture.....Advance Smoothly
when engine starts
Throttle.....1000 RPM
Oil Pressure.....Check
Mixture.....Lean 50%

Unusual Procedures

ENGINE ROUGHNESS

Carb Heat.....ON
Mixture.....Adjust As Needed
Throttle.....Adjust As Needed
IF ROUGHNESS CONTINUES...

Fuel Pump.....ON
Fuel Selector.....Opposite Tank
Engine Instruments.....Check
Magnetos.....Switch to Left/Right
If either Mag is Satisfactory,
Continue on that Mag

Throttle.....Reduce Power
LAND AS SOON AS PRACTICAL

LOSS OF OIL PRESSURE

LAND AS SOON AS PRACTICAL
Prepare for Imminent Engine Failure

EXCESSIVE RATE OF CHARGE

Alternator.....OFF
REDUCE ELECTRICAL LOAD
LAND AS SOON AS PRACTICAL

SPIN RECOVERY (REAP)

Rudder.....Opposite of Rotation
Elevator.....Forward / Break Stall
Ailerons.....Neutral
Power.....Idle

V-Speeds (KIAS)

Vr - 50	Vg - 73
Vx - 63	Vno - 126
Vy - 79	Vne - 160
Vso - 44	Va - 111 (2325 lbs)
Vs1 - 50	- 88 (1531 lbs)
Vfe - 103 (10°)	Vref - 63 (40°)
- 90 (25°-40°)	