



**Piper Warrior III N1047M Checklist
V-Speeds**

Vr.....	55 KTS
Vx.....	60 KTS
Vy.....	79 KTS
VNO.....	126 KTS
VNE.....	160 KTS
VNORM.....	63 KTS
VOBST.....	63 KTS
VSO.....	44 KTS
VS1.....	50 KTS
VL/D.....	73 KTS

Cockpit	
ARROW.....	onboard
Control wheel.....	release belts
Radio master.....	OFF
Parking brake.....	SET
Electrical switches.....	OFF
Magneto switch.....	OFF
Mixture.....	idle cut-off
Batt master.....	ON
Annunciator panel.....	check
Exterior lights/pitot heat.....	ON
Exterior lights/stall horn/pitot.....	check
Exterior lights/pitot heat.....	OFF
Fuel quantity gauges.....	check
Hobbs & tach.....	record
Batt master.....	OFF
Flaps.....	down
Trim.....	check/neutral
Alternate static.....	OFF

Right Wing

Towbar.....	stowed
Baggage door.....	closed & latched
Flap.....	check secure
Control surfaces.....	check
Hinges.....	check secured
Static wicks.....	check

Fuel tank sump.....	drain & check
Fuel tank.....	check supply, secure cap
Fuel vent.....	clear

Tie down or chock.....	remove
Main gear strut/tire/brake.....	check
Fresh air inlet.....	clear

Nose Section

Oil.....	(4-8qts) check
Cowling.....	secure
Windshield.....	check
Prop & spinner.....	check
Alternator belt.....	check tension
Nose gear strut.....	proper inflation
Nose wheel tire.....	check
Fuel tank sump.....	drain & check

Left Wing

Fresh air inlet.....	clear
Main gear strut/tire/brake.....	check

Fuel tank sump.....	drain & check
Fuel tank.....	check supply, secure cap
Fuel vent.....	clear

Tie down & chock.....	remove
Pitot head.....	holes clear
Control surfaces.....	check
Hinges.....	check secured
Static wicks.....	check

Fuselage & Empennage

Antennas.....	check
Stabilator.....	check for interference
Trim tab.....	check for interference
Tiedown.....	remove

Before starting engine

Passenger briefing.....	complete
Seats & seatbelts.....	check secure
Circuit breakers.....	all in
Carburetor heat.....	OFF
Fuel selector.....	fullest tank
Radio master.....	OFF
Key.....	in & OFF

Altimeter.....	SET BOTH
Landing light.....	ON
Parking brake.....	RELEASE
Brakes.....	check
Flight Instruments.....	check

Starting engine	
Parking Brake.....	SET
Mixture.....	full RICH
Throttle.....	1/4" open
Batt master.....	ON
Alternator switch.....	ON
Stby Alternator switch.....	ON
Primer*.....	2-4 seconds
Fin Strobe.....	ON
Nav lights.....	ON
Electrical fuel pump.....	ON
Propeller.....	CLEAR
Starter* (10 sec max).....	engage
Throttle.....	800-1200 RPM
Oil pressure*.....	in the green

Runup	
Parking brake.....	SET
Mixture.....	full RICH
Fuel pump.....	ON
Throttle.....	2000 RPM
Magnetos.....	max. drop 175 RPM diff. 50 RPM
Carburetor heat.....	check
Oil temp.....	check
Oil pressure.....	check
Ammeter.....	charging
Annunciator panel.....	press-to-test
Alternator.....	OFF
Check.....	stby alt annunciator and charge
Alternator.....	ON
Throttle.....	IDLE then 800-1000 RPM
Mixture.....	LEAN

*If engine does **NOT start** in **10 sec**, disengage **starter** & reprime.

*If oil pressure is **NOT green** within 30 sec, shut down engine and consult a mechanic.

*Hot start **SKIP** primer.

After Start	
Radio master.....	ON
Electrical fuel pump.....	OFF
Mixture.....	LEAN
Alternator output.....	check positive
Standby attitude indicator.....	pull erect
Transponder.....	SET
GPS/NAV/Flt plan.....	SET

Before takeoff	
Flight controls.....	free and correct
Flight instruments.....	check
Clock.....	timer set 30 minutes
GPS.....	set
Fuel selector.....	fullest tank
Electric fuel pump.....	ON
Carburetor heat.....	OFF
Seats and seatbelts.....	check secure
Flaps.....	set
Trim.....	set
Door and window.....	closed and latched
Lights.....	ON

Taxiing	
ATIS.....	received

Normal takeoff	
Mixture.....	RICH

Flaps.....set
Trim.....set
Vr 55 kts
Control wheel.....ease backpressure

Short field takeoff

Flaps.....25°
Mixture.....RICH
Brakes.....hold & release
Control wheel.....back pressure pitch for Vx
Flaps.....retract 200 ft, safe airspeed, positive rate

Soft field takeoff

Flaps.....25°
Lift nose at soon as possible and accelerate in ground effect to Vy 79 KIAS
Flaps.....retract 200 ft, safe airspeed, positive rate

Climb

Airspeed.....79 KIAS
En-route climb.....87 KIAS
Electric fuel pump.....OFF
Mixture.....lean as required

Cruise

Power.....set
Mixture.....adjust
Lights.....as required

Descent

Throttle.....set
Mixture.....as required
Carburetor heat.....as required
Lights.....as required

Before landing

ATIS.....received
Altimeter.....set
Approach.....SET & briefed
Instruments.....set

Fuel selector.....set
Mixture.....RICH
Electric fuel pump.....ON
Landing lights.....ON
Carburetor heat.....as required

Landing

Fuel selector.....set
Seats and seatbelts.....check secure
Electric fuel pump.....ON
GUMPS.....check
Flaps.....set below 103 KIAS
Carburetor heat.....as required
Final approach speed.....63 KIAS

After landing

Lights.....as required
Electric fuel pump.....OFF
Mixture.....LEAN
Carburetor heat.....OFF
Flaps.....UP

Securing aircraft

Flaps.....UP
Electric fuel pump.....OFF
Radio master.....OFF
Throttle.....IDLE
Mixture.....idle cut-off
Magnetos.....OFF
Alternator switch.....OFF
Batt master.....OFF
Parking brake.....as required
Control wheel.....secure with belts
Chocks.....in place
Tie downs.....secured

Emergency Checklists

Engine power loss during ground roll

Throttle.....**IDLE**
Breaks.....**APPLY**
Control wheel.....back for aerodynamic breaking
Radio master.....**OFF**
Mixture.....idle cut-off
Magnetos.....**OFF**
Alternator switch.....**OFF**
Batt master.....**OFF**

Engine power loss after takeoff

Airspeed.....**73 KIAS**
Land.....**straight ahead**

If sufficient altitude remains make shallow turns to avoid obstructions

Fuel.....switch tanks
Electric fuel pump.....**ON**
Mixture.....**RICH**
Carburetor heat.....**ON**

If power is not restored proceed with power off landing checklist if time allows.

Engine power loss in flight

Airspeed.....**73 KIAS**
Landing spot.....**select**
Fuel.....**switch tanks**
Electric fuel pump.....**ON**
Mixture.....**RICH**
Carburetor heat.....**ON**

Engine gauges.....check for abnormal indications

If no fuel pressure is indicated check selector to be sure it is on a tank containing fuel.

When power is restored:

Carburetor heat.....**OFF**
Electric fuel pump.....**OFF**

If power is not restored, proceed with power off landing checklist. Trim for 73 KIAS.

Power off landing

Locate suitable field.
Establish spiral pattern.

Ignition switch.....**OFF**
Radio master.....**OFF**
Alternator switch.....**OFF**
Batt master.....**OFF**
Fuel selector.....**OFF**
Mixture.....**idle cut-off**
Seat belts and harnesses.....**tight**
Door.....**release latches**

Final approach speed **63 KIAS** land tail low.

Engine fire in flight

Fuel selector.....**OFF**
Throttle.....**IDLE**
Mixture.....**idle cut-off**
Electric fuel pump.....**OFF**
Heater.....**OFF**
Defroster.....**OFF**

Proceed with power off landing.