

## **PREFLIGHT CHECKLIST**

### **PIPER ARROW III (PA-28R-201)**

Northampton Airport  
Updated January 20th, 2024

#### **COCKPIT SAFETY CHECK**

<b>Magnetos</b>	<b>OFF, KEYS ON DASH</b>
<b>Mixture</b>	<b>CUTOFF</b>
<b>Throttle</b>	<b>CLOSED</b>

#### **CABIN**

Documents (SPAROW)	CHECK
Flight controls	RELEASE
Gear selector	DOWN
Parking brake	SET
Avionics	OFF
Electric switches	OFF
Master switch	ON
Gear lights	3 GREEN
Fuel gauges	CHECK
Aux vacuum pump	CHECK
Pitot heat switch	ON
Landing light switch	ON
Anti-collision lights switch	ON

#### **ELECTRICAL**

Right position & strobe lights	ON
Landing light	ON
Stall horn	AUDIBLE
Pitot head	WARM & CLEAR
Left position & strobe lights	ON
Tail position & beacon lights	ON
Pitot heat switch	OFF
Landing light switch	OFF
Anti-collision lights switch	OFF
Annunciator panel	TEST
Master switch	OFF
Altimeter	FIELD ELEVATION
Magnetic compass	CHECK
Pitot & static drains	DRAIN
Flight controls	CHECK
Flaps	EXTEND
Fire extinguisher	CHECK
Windows	CHECK & CLEAN

#### **RIGHT WING**

General condition	CHECK & CLEAR
Flap	CHECK
Aileron	CHECK
Static wicks	CHECK
Wingtip	CHECK
Tie down/chock	REMOVE
Fuel tank vent	CHECK
Fuel tank sump	DRAIN & CHECK
Fuel tank	CHECK
Fuel cap	CHECK & SECURE
Main gear	CHECK
Fresh air inlet	CHECK

#### **NOSE**

Oil (max 6, min 5.5)	CHECK
Propeller & spinner	CHECK
Alternator belt	CHECK
Right Cowling	SECURE
Intake cover	REMOVE
Engine heater	UNPLUG
Air inlets	CLEAR
Nose gear	CHECK
Chock	REMOVE
Left Cowling	SECURE
Fuel strainer	DRAIN & CHECK
OAT Probe	CLEAR

#### **LEFT WING**

General condition	CHECK & CLEAR
Fresh air inlet	CHECK
Main gear	CHECK
Fuel tank vent	CHECK
Fuel tank sump	DRAIN & CHECK
Fuel tank	CHECK
Fuel cap	CHECK & SECURE
Tie down/chock	REMOVE
Pitot tube 3 holes	CLEAR
Wingtip	CHECK
Aileron	CHECK
Flap	CHECK
Static wicks	CHECK

**BODY**

Antennas	INTACT
Left fuselage	CHECK FOR DAMAGE
Left static port	CLEAR
Fresh air inlet	CLEAR
Stabilator	CHECK & CLEAR
Trim tab	CHECK & CLEAR
Rudder	CHECK & CLEAR
Tie down / chain	REMOVE
Right fuselage	CHECK FOR DAMAGE
Right static port	CLEAR
Baggage area	CLOSE & SECURE

**FINISH**

Tail Lock	IN COCKPIT
Flaps	RETRACT
Hobbs & Tach	RECORD
Seat	ADJUST & SECURE
Sentry/iPad/Kneeboard	ADJUST & SECURE
Fuel	ADD AS NEEDED
Passengers	BOARD

**BEFORE ENGINE START**

Preflight	COMPLETE
Passenger briefing	COMPLETE
Seats & seat belts	SECURE
Fuel selector	LOWEST TANK
Avionics / Electrical	OFF
Circuit breakers	CHECK
Alternate air	OFF
Strobes	ON
Propeller	MAX RPM
Brakes	SET & HOLD

**ENGINE START**

Throttle	½" OPEN
Master & Alt switches	ON
Fuel pump	ON
Mixture if cold	RICH 3-5 SECS
Mixture	CUT OFF
Propeller area	CLEAR
Starter	ENGAGE
Mixture	RICH
Throttle	800 RPM
Oil pressure	CHECK
Fuel pump	OFF
Mixture	LEAN

**BEFORE TAXI**

Avionics/Radio master	ON
Transponder (1200 VFR)	ALT
Radios	SET
ATIS	CHECK
Flight instruments	SET
Lights	AS APPROPRIATE
Navigation	SET
Radio	CLNC, GROUND/CTAF
#2 Radio	MONITOR 121.5

**TAXI**

Parking Brake	RELEASE
Brakes	CHECK
Flight instruments	CHECK

**ENGINE RUNUP**

Brakes	SET & HOLD
Oil Temp	IN THE GREEN
Fuel selector	OTHER TANK
Mixture (below 5000')	RICH
Throttle	2000 RPM
Mags (drop 175,diff 50)	CHECK
Vacuum (4.8-5.1")	CHECK
Engine gauges	CHECK
Ammeter CHARGING LTS & PITOT ON/OFF	
Annunciator panel	TEST
Alternate air	CHECK
Propeller (max 500 drop)	CYCLE 3X
Throttle (min 500 RPM)	IDLE
Throttle	1000 RPM
Flight controls	CHECK

**BEFORE TAKEOFF**

Fuel pump	ON
Propeller	MAX RPM
Pitot heat	AS REQUIRED
Flight instruments	CHECK
Trims X 2	TAKEOFF
Flaps	NORMAL 0°, SHORT/SOFT 25°
Seats & seat belts	SECURE
Door & window	SECURE
Lights	ON
Takeoff briefing	COMPLETE
Air conditioning	OFF
Radio	TOWER/CTAF

**NORMAL TAKEOFF**

Mixture (below 5000')	RICH
Throttle	FULL
Power	CHECK
Engine gauges	CHECK
Airspeed	CHECK
Rotate 0°/25°	71/59 KIAS

**CLIMB**

Gear	UP
Flaps	RETRACT AT SAFE SPEED (60 KIAS)
Airspeed (cruise climb)	104 KIAS/500FPM
Fuel pump	OFF
Fuel pressure	CHECK

**CRUISE**

Power & Propeller	AS REQUIRED
Mixture	LEAN AS REQUIRED

**SPEEDS**

Vg (gear up, 0°, prop low)	79 KIAS
Va (2750/1865 lbs)	118/96 KIAS
Vfe	103 KIAS
Vlo (retract, extend)	107,129 KIAS
Vle	129 KIAS
Vy (gear down,0°)	78 KIAS
Vy (gear up,0°)	90 KIAS
Vx (gear down,25°)	62 KIAS
Vx (gear down,0°)	72 KIAS
Vx (gear up,0°)	78 KIAS
Vs0	55 KIAS
Vs1	60 KIAS

## **NORMAL OPERATIONS**

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#### **NORMAL TAKEOFF**

Mixture (below 5000')	RICH
Throttle	FULL
Power	CHECK
Engine gauges	CHECK
Airspeed	CHECK
Rotate 0°/25°	71/59 KIAS

#### **CLIMB**

Gear	UP
Flaps	RETRACT AT SAFE SPEED (60 KIAS)
Airspeed (cruise climb)	104 KIAS/500FPM
Fuel pump	OFF
Fuel pressure	CHECK

#### **CRUISE**

Power & Propeller	AS REQUIRED
Mixture	LEAN AS REQUIRED

#### **FUEL TANK SWITCH**

Fuel pump	ON
Fuel selector	DESIRED TANK
Fuel pressure	CHECK
Fuel pump	OFF

#### **DESCENT / APPROACH**

Power & Propeller	AS REQUIRED
Mixture	AS REQUIRED
Seats & seat belts	UPRIGHT & SECURE

#### **APPROACH / LANDING**

Downwind	90 KTS
Air conditioning	OFF
Fuel pump	ON
Fuel selector	FULLEST TANK
Mixture (below 5000')	RICH
Propeller	MAX RPM
Gear (<129 KIAS)	DOWN
Flaps (<103 KIAS)	AS REQUIRED
Landing (0°)	78 KIAS
Landing (40°)	72 KIAS

#### **AFTER LANDING**

Radio	GROUND/CTAF
RPM	1000
Flaps	RETRACT
Fuel pump	OFF
Mixture	LEAN
Lights	AS REQUIRED
Pitot Heat	OFF

#### **SHUTDOWN**

Call for fuel	AS REQUIRED
Air conditioning	OFF
Avionics/Radio master	OFF
Throttle	IDLE
Mixture	CUTOFF

#### **WHEN PROP STOPS**

Magnetos	OFF, KEY OUT
Electrical switches	OFF
Master & Alt switches	OFF
Hobbs & tach	RECORD
Flight controls	SECURE
Tie downs	SECURE
Cover	ON