

PA28-161 PIPER ARROW III CHECKLIST

EAST COAST AERO CLUB

PREFLIGHT

COCKPIT SAFETY CHECK

MagnetosOFF, KEY OUT
MixtureCUTOFF
ThrottleCLOSED

Hobbs & TachRECORD
Documents (A(R)ROW)CHECK
Flight controlsRELEASE
Emergency Gear LEVER UP ... CONFIRMED
Gear selector DOWN
Trims x2TAKEOFF
Parking brake releasedAS REQUIRED
Avionics/Radios OFF
Electrical switchesOFF
StrobesON
Master switch **PROP CLEAR** ON
Gear lights 3 GREEN
Fuel gaugesCHECK
Annunciator PanelCHECK
IF IFR OR NIGHT FLIGHT
Aux vacuum pump **ON FOR 1 SECOND**.....CHECK
Exterior lights ON, CHECK, OFF
Pitot heat ON, CHECK, OFF
ONLY IF REQUIRED
Stall horn CHECK
Exterior lights (& Pitot heat) OFF
Master switch OFF
Altimeter FIELD ELEVATION
Magnetic compass & deviation card..... CHECK
Pitot & static drains DRAIN
Flight controls CHECK
FlapsEXTEND
Fire extinguisher (if installed) CHECK
Windows CHECK

RIGHT WING

General condition CHECK & CLEAR
Flap CHECK
Ailerons & static wicks (if installed) CHECK
WingtipCHECK
Tie down/chockREMOVE
Stall stripCHECK INSTALLED
Fuel tank ventCHECK
Fuel tank sumpDRAIN & NO DRIPS
Fuel tank quantity..... CHECK
Fuel cap & ventCHECK
Main gear & brakeCHECK
Fresh air inletCHECK

NOSE

General condition & leaks CHECK
CowlingSECURE
Oil (**6 Qts**) CHECK
Propeller & spinner CHECK
Alternator belt tension CHECK
Air inlets CHECK

Exhaust pipes (Hot?) SECURE
Nose gear CHECK
Chocks (If in place) REMOVE
TOW BAR REMOVED AND STOWED
Fuel strainer DRAIN & NO DRIPS

LEFT WING

General condition CHECK & CLEAR
Fresh air inletCHECK
Main gear & brakeCHECK
Fuel tank ventCHECK
Fuel tank sumpDRAIN & NO DRIPS
Fuel tank quantity..... CHECK
Fuel tank CHECK
Fuel cap & vent CHECK
Stall stripCHECK INSTALLED
Tie down/chockREMOVE
Pitot Tube (3 holes)CHECK
WingtipCHECK
Ailerons & static wicks (if installed) CHECK
Flap CHECK

LEFT FUSELAGE

General conditionCHECK
Static port CHECK
AntennasCHECK
Fresh air inletCLEAR

EMPENNAGE

Stabilator CHECK & CLEAR
Trim tab & Nut CHECK & CLEAR
Rudder CHECK & CLEAR
Antennas CHECK
Tie down / Lock REMOVE

RIGHT FUSELAGE

General ConditionCHECK
Static port CHECK
AntennasCHECK
Baggage area & Ext Start DoorSECURE
Baggage doorUNLOCKED & LATCHED

BEFORE ENGINE START

Tail Lock IN BAGGAGE OR COCKPIT
Flaps RETRACT
Passenger briefing COMPLETE
Seats & seat belts UPRIGHT & SECURE
Fuel selectorLOWEST or OTHER TANK
Circuit breakersCHECK
Alternate Air OFF
StrobesON
Propeller MAX RPM
Carb HeatOFF
Brakes SET & HOLD

ENGINE START

MixtureRICH
Throttle¼ INCH COLD, ½ INCH HOT
Master switchON

Alternator switchON
Fuel pumpON
Prime3-5 SECS IF **COLD**
2 SECS IF **WARM**, 0 SECS IF **HOT**
PROPELLER AREACLEAR

StarterENGAGE
Throttle ...800 RPM (No Higher Than 1000)
Oil pressure..... CHECK
Fuel pump OFF
Mixture LEAN

BEFORE TAXI

Avionics/Radio master ON
Transponder (1200 VFR) ALT
RadiosSET
ATISCHECK
Flight instruments SET
Navigation SET FLT PLAN
Radio CLNC / GROUND / CTAF
#2 Radio MONITOR 121.5
Lights AS APPROPRIATE

TAXI

Parking Brake RELEASE
Brakes CHECK
Flight instruments CHECK

ENGINE RUNUP

BrakesSET & HOLD
Oil Temp IN THE GREEN
Fuel selector OTHER TANK
Mixture (below 5000') RICH
Throttle 2000 RPM
Mags (Max drop 175, diff 50)CHECK
Vacuum (4.8-5.2") CHECK
Engine gauges CHECK
Annunciator panel TEST
Load meter CHECK ALL
LIGHTS, FUEL PUMP, & PITOT HEAT ON then OFF
Carb heatON
(Approx. 75 RPM drop - NO RISE)
Carb heat OFF
Throttle (min 500 RPM) IDLE
Throttle 1000 RPM
Flight controls CHECK

BEFORE TAKEOFF

Trims ELEVATOR & RUDDER TAKEOFF
Door 2 latches & Window SECURE
Fuel pump ON
Pitot heat AS REQUIRED
Flight instruments CHECK
Flaps NORMAL 0°, SHORT/SOFT 25°
Seats & seat belts UPRIGHT & SECURE
Takeoff briefing COMPLETE
Radio TOWER/CTAF
#2 Radio MONITOR 121.5
Transponder 1200 or assigned

FREQUENCIES

HANSCOM - KBED

ATIS124.6
GROUND121.7
TOWER118.5
BOS APP124.4
Signature (or 781-274-0010).....130.8

PRACTICE AREA - ALL123.5

NORWOOD - KOWD

ATIS119.95
GROUND121.8
TOWER126.0
BOS APP120.6 / 124.1
Flight Level (or 781-769-8680) 129.42

EMERGENCY (GUARD)..... 121.5

NASHUA - KASH

ATIS125.1
GROUND121.8
TOWER133.2
BOS APP124.9
Infinity (or 603-598-4526)..... 129.75

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EAST COAST AERO CLUB

Mixture RICH
Lights WHEN CLRD FOR TAKEOFF ... AS APPROPRIATE

TAKEOFF

Mixture (below 5000') RICH
Throttle FULL
Power 2330-2430 RPM=STATIC CHECK
Engine gauges CHECK
Airspeed CHECK
Rotate (0°/25°) 55/52 KIAS

CLIMB

FlapsRETRACT AT SAFE SPEED (65KIAS)
Airspeed (cruise climb) ... 87KIAS/500'/MIN
Fuel pump OFF CHECK PRESSURE
Oil pressure & Temp CHECK

CRUISE

PowerAS REQUIRED
Mixture.....LEAN AS REQUIRED

FUEL TANK SWITCH

Place to land in emergencyIDENTIFY
Fuel pump ON
Fuel selector DESIRED TANK
Fuel pump OFF
Fuel pressure CHECK

DESCENT

Fuel Pump ON
Fuel Selector FULLEST TANK
Power AS REQUIRED
Mixture ENRICH / AS REQUIRED
Carb heat AS REQUIRED
Seats & seat belts UPRIGHT & SECURE

APPROACH & LANDING

Downwind 90 KTS
Fuel pumpON
Fuel selector FULLEST TANK
Mixture (below 5000') RICH
Carb heat (if on) OFF SHORT FINAL
Flaps (<103 KIAS)AS REQUIRED
Landing (0°) 70 KIAS
Landing (40°) 63 KIAS

AFTER LANDING

RPM 1000
Radio GROUND/CTAF
Lights AS APPROPRIATE
Flaps RETRACT
Fuel pump OFF
Carb heat OFF
MixtureLEAN
Pitot Heat. OFF

Transponder 1200

SHUTDOWN

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

WHEN PROP STOPS

Magnetos..... OFF
KEY OUT / ON CONSOLE
Electrical switches OFF
StrobesLEAVE ON
Master & Alt switches OFF
Hobbs & tach RECORD
Flight controls SECURE
PARKING BRAKE RELEASED
Tie downs SECURE
(Chocks - if no tie downs)
Cover ` ON

SPEEDS

Vr (0°/25°) 55/52 KIAS
Vg (0° Flaps)73 KIAS
Glide distance approx 1 NM per 550'
Va (2440/1531 lbs)111/88 KIAS
Vfe 103 KIAS
Vy (0°) 79 KIAS
Vx (0°) 63 KIAS
Vx (25°) 57 KIAS
Vs0 44 KIAS
Vs1 50 KIAS

AIRPLANE SPECS

Usable fuel Tabs 34g / Full 48g
Taxi fuel 1.0g
Climb fuel 12.0 GPH
Max Crosswind17 KTS
Cruise 3000'@ 65%2320 RPM /103KTS

EMERGENCY PROCEDURES

**NOTE: NOT ALL EMERGENCY PROCEDURES
ARE HERE**
Check POH for additional procedures

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
Mixture CUTOFF
Throttle OPEN
Fuel pump OFF
Fuel selector OFF
Evacuate to rally point

ENGINE POWER LOSS IN FLIGHT

Fuel selector FULLEST TANK
Fuel pump ON
Mixture RICH
Carb heat ON
Magnetos BOTH
Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 73 KIAS
Landing area IDENTIFY
ELT ACTIVATE
Radio 121.5 / TOWER / APCH..... MAYDAY
Transponder 7700
Final approach (40°) 63 KIAS
Magnetos..... OFF
Master switch OFF
Alternator switch OFF
Fuel selector OFF
Mixture CUTOFF
Seatbelts SECURE
Door UNLATCH

ENGINE ROUGHNESS

Carb heat ON
If still rough after ONE MINUTE:
Carb heatOFF
MixtureADJUST TO SMOOTHEST
Fuel pump ON
Fuel selectorSWITCH TANKS
Engine gaugesCHECK
MagnetosCHECK/SELECT SMOOTHEST
Mixture RICH
Land AS SOON AS PRACTICAL

ENGINE FIRE IN FLIGHT

Fuel selector OFF
Throttle CLOSED
Mixture CUTOFF
Fuel pump OFF
Heater & defroster OFF
Speed INCREASE TO EXTINGUISH
Land IMMEDIATELY

LOSS OF FUEL PRESSURE

Fuel pump ON
Fuel selector CHECK ON FULL TANK

ELECTRICAL (CABIN) FIRE

Master switchOFF
Alternator switch OFF
VentsOPEN
Heater & defroster OFF
Fire extinguisher AS NECESSARY
LandAS SOON AS PRACTICAL

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