

PA28R-201 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
Gear Selector DOWN
 Trims x2TAKEOFF
 Parking Brake Released AS REQUIRED
 Avionics/Radios OFF
 Electrical SwitchesOFF
 Strobes & BeaconON
 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
 DAY - Landing Lights, & Strobes
 NIGHT - Landing Lights, Strobes & Nav Lights
 Pitot Heat ON, CHECK, OFF
 Only if required for flight
 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
 Wingtip CHECK
 Tie Down/Chock REMOVE
 Stall Strip CHECK INSTALLED
 Fuel Tank Vent CHECK
 Fuel Tank Sump DRAIN & NO DRIPS
 Fuel Tank Quantity CHECK
 Fuel Cap & Vent CHECK
 Main Gear & Brake CHECK
 Fresh Air Inlet CHECK

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 Inlet CHECK
 Main Gear & Brake CHECK
 Fuel Tank Vent CHECK
 Fuel Tank Sump DRAIN & NO DRIPS
 Fuel Tank Quantity CHECK
 Fuel Cap & Vent CHECK
 Stall Strip CHECK INSTALLED
 Tie Down/Chock REMOVE
 Pitot Tube (3 holes) CHECK
 Wingtip CHECK
 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 Condition CHECK
 Static Port CHECK
 AntennasCHECK
 Baggage Area SECURE
 Baggage Door UNLOCKED & LATCHED

BEFORE ENGINE START

Tail Lock IN BAGGAGE OR COCKPIT
 Flaps RETRACT
 Passenger Briefing COMPLETE
 Seats & Seat Belts UPRIGHT & SECURE
 Fuel Selector LOWEST or OTHER TANK
 Circuit Breakers CHECK
 Alternate Air OFF
 Strobes ON
 Propeller MAX RPM
 Brakes HOLD

ENGINE START

Throttle 1/2 INCH OPEN
 Master Switch ON
 Alternator Switch ON
 Fuel Pump ON
 Mixture (if cold) RICH 3-5 SECS

Mixture CUT OFF
PROPELLER AREA CLEAR
 Starter ENGAGE
 Mixture RICH
 Throttle ...800 RPM (No Higher Than 1000)
 Oil Pressure CHECK
 Fuel Pump OFF
 Mixture LEAN

BEFORE TAXI

Avionics/Radio master ON
 Transponder (1200 VFR or Assigned) ALT
 Radios SET
 ATIS CHECK
 Flight Instruments SET
 Navigation SET FLT PLAN
 Radio CLNC / GROUND / CTAF
 #2 Radio MONITOR 121.5
 Lights AS APPROPRIATE

TAXI

Parking Brake CHECK RELEASED
 Brakes CHECK
 Flight Instruments CHECK

ENGINE RUNUP

Brakes HOLD
 Oil Temp IN THE GREEN
 Fuel selector OTHER TANK
 Mixture (below 3000') RICH
 Throttle 2000 RPM
 Mags (Max drop 175, diff 50) CHECK
 Vacuum (4.8-5.1") CHECK
 Engine Gauges CHECK
 Ammeter CHECK CHECK
PITOT HEAT ON then OFF
 Annunciator Panel TEST
 Alternate Air CHECK
 Propeller(max 500 drop) CYCLE x 3
 Throttle (min 500 RPM) IDLE
 Throttle 1000 RPM
 Flight Controls CHECK

BEFORE TAKEOFF

Fuel Pump ON
 Propeller MAX RPM
 Pitot Heat AS REQUIRED
 Trims ELEVATOR & RUDDER TAKEOFF
 Flight Instruments CHECK
 Flaps NORMAL 0°, SHORT/SOFT 25°
 Seats & Seat Belts UPRIGHT & SECURE
 Door 2 Latches & Window SECURE
 Takeoff Briefing COMPLETE
 Air Conditioning OFF
 Radio TOWER/CTAF
 #2 Radio MONITOR 121.5
 Transponder 1200 or assigned
 Lights WHEN CLRD FOR TAKEOFF ... AS APPROPRIATE

FREQUENCIES	PRACTICE AREA - ALL 123.5	EMERGENCY (GUARD)..... 121.5
HANSCOM - KBED	NORWOOD - KOWD	NASHUA - KASH
ATIS 124.6	ATIS 119.95	ATIS 125.1
GROUND 121.7	GROUND 121.8	GROUND 121.8
TOWER 118.5	TOWER 126.0	TOWER 133.2
BOS APP 124.4	BOS APP 120.6 / 124.1	BOS APP 124.9
Signature (or 781-274-0010)..... 130.8	Flight Level (or 781-769-8680) 129.42	Infinity (or 603-598-4526)..... 129.75

TAKEOFF

Mixture (below 3000') RICH
 Throttle FULL
 Power CHECK
 Engine Gauges CHECK
 Airspeed CHECK
 Rotate (0°/25°) 71/59 KIAS

CLIMB

Gear UP
 Flaps.....RETRACT AT SAFE SPEED (78 KIAS)
 Airspeed (cruise climb) 104 KIAS/500'/MIN
 Fuel Pump OFF / CHECK PRESSURE
 Oil Pressure & Temp CHECK

CRUISE

Power REDUCE SLOWLY / AS 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 REDUCE SLOWLY/AS REQUIRED
 Mixture ENRICH / AS REQUIRED
 Seats & seat belts UPRIGHT & SECURE

APPROACH & LANDING

Downwind 90 KTS
 Air Conditioning..... OFF
 Fuel pumpON
 Fuel selector FULLEST TANK
 Mixture (below 3000') RICH
 Propeller MAX RPM
 Landing Gear (<129 KIAS) DOWN
 Flaps (<103 KIAS) AS REQUIRED
 Landing (0°) 78 KIAS
 Landing (40°) @ Gross Wt 75 KIAS

AFTER LANDING

RPM 1000
 Radio GROUND/CTAF
 Lights AS APPROPRIATE
 Flaps RETRACT
 Fuel pump OFF
 Mixture LEAN
 Pitot Heat. OFF
 Transponder 1200

SHUTDOWN

Call For Fuel AS REQUIRED
 Air Conditioning..... OFF
 Avionics/Radio Master OFF
 Throttle IDLE
 Mixture CUTOFF

WHEN PROP STOPS

Magnetos OFF
 Electrical Switches OFF
 StrobesLEAVE ON
 Master & Alt switches OFF
 Hobbs & Tach RECORD
 Flight Controls SECURE
 Parking Break CHECK RELEASED
 Tie Downs..... SECURE
 (Chocks - if no tie downs)
 Cover ON

SPEEDS

Vg (gear up, 0°, prop low) 79 KIAS
glide distance approx 1 NM per 700'
 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°)63 KIAS
 Vx (gear down,0°) 72 KIAS
 Vx (gear up,0°) 78 KIAS
 Vs0 55 KIAS
 Vs1 60 KIAS

AIRPLANE SPECS

Usable fuel tabs/full 48g/72g
 Taxi fuel 1.3g
 Climb fuel (75% power) 12.7 GPH
 Crosswind 17 KTS
 Maneuvers 2500 RPM/20"/100 KTS
 Cruise 75% 2500 RPM, 12.7 GPH
 (leaned)
 3000' 25.3", 133 KTAS
 6000'24.3", 135 KTAS

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

MANUAL GEAR EXTENSION

Master SwitchCHECK ON
 Alternator SwitchCHECK ON
 Circuit Breakers CHECK
 Nav Light Switch (daytime) OFF
 Gear BulbsCHECK
 Airspeed BELOW 87 KIAS
 Gear SwitchDOWN
 Emergency Gear LeverHOLD DOWN
 Yaw With Rudder AS REQUIRED
 Reduce Speed AS REQUIRED
 Gear SwitchCYCLE AS REQUIRED

ENGINE POWER LOSS IN FLIGHT

Fuel Selector FULLEST TANK
 Fuel Pump ON
 Mixture RICH
 Alternate Air ON
 Magnetos BOTH
 Engine gauges CHECK

POWER OFF LANDING

Trim for Best glide 79 KIAS
 PropellerMIN RPM
 Landing Area IDENTIFY
 ELT ACTIVATE
 Radio 121.5 / TOWER / APCH..... MAYDAY
 Transponder 7700
 Final Approach (40°) 72 KIAS
 Landing Gear AS REQUIRED
 Magnetos..... OFF
 Master Switch OFF
 Alternator Switch OFF
 Fuel Selector OFF
 Mixture CUTOFF
 Seatbelts SECURE
 Door UNLATCH

ENGINE ROUGHNESS

MixtureADJUST TO SMOOTHEST
 Alternate airOPEN
 Fuel pumpON
 Fuel selectorSWITCH TANKS
 Engine gaugesCHECK
 MagnetosCHECK 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

ELECTRICAL (CABIN) FIRE

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

FREQUENCIES

PRACTICE AREA - ALL 123.5

EMERGENCY (GUARD)..... 121.5

HANSCOM - KBED

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

NORWOOD - KOWD

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 GROUND121.8
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 Flight Level (or 781-769-8680) 129.42

NASHUA - KASH

ATIS125.1
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 TOWER133.2
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