

PA38-112 PIPER TOMAHAWK CHECKLIST

EAST COAST AERO CLUB

PREFLIGHT

COCKPIT SAFETY CHECK

MagnetosOFF, KEY OUT
MixtureCUTOFF
ThrottleCLOSED

Hobbs & TachRECORD
 Documents (AROW)CHECK
 Flight controlsRELEASE
 Parking brakeAS REQUIRED
 Avionics/Radios OFF
 ELTARM
 Electrical switchesOFF
 Master switch ON
 Fuel gaugesCHECK
 Alternator Warning LightON
 Pitot heatON, CHECK, OFF
(Only if required)
 Exterior lights ON, CHECK, OFF
 Stall horn CHECK
 Master switch OFF
 Altimeter FIELD ELEVATION
 Magnetic compassCHECK
 Pitot & static drainsDRAIN
 Alternate Static sourceNORMAL/OFF
 Flight controlsCHECK
 FlapsEXTEND
 Fire extinguisher (If installed)CHECK
 Baggage SECURE
 Windows CHECK

LEFT FUSELAGE

General conditionCHECK
 Static PortCHECK
 AntennasCHECK

EMPENNAGE

Stabilator & ElevatorCHECK & CLEAR
 RudderCHECK & CLEAR
 AntennasCHECK
 Tie downREMOVE

RIGHT FUSELAGE

General condition CHECK
 Static Ports UNOBSTRUCTED
 Antennas CHECK

RIGHT WING

General condition CHECK & CLEAR
 FlapCHECK
 Aileron CHECK
 WingtipCHECK
 Inboard & Outboard Flow StripsCHECK
 Tie down/chockREMOVE
 Fuel tank vent CHECK
 Fuel tank sump DRAIN & NO DRIPS
 Fuel tank & quantityCHECK
 Fuel cap & VentCHECK
 Main gear & BrakesCHECK

NOSE

General condition & leaksCHECK
 Fresh air inletCHECK
 Right engine compartmentCHECK
 Oil (max 5, min 4) CHECK
 RT Cowling Latches X2SECURE
 Propeller & spinnerCHECK
 Alternator beltCHECK
 Air inlets CHECK
 Nose gearCHECK
 ChockREMOVE
 Left engine compartmentCHECK
 Hydraulic Brake FluidCHECK
 Fresh air inletCHECK
 Left cowling Latches X2SECURE
 Fuel strainer)DRAIN & NO DRIPS
 X2 (Switch Tanks
 Tow Bar or ChocksREMOVED

LEFT WING

Tow Bar or ChocksREMOVED
 General conditionCHECK & CLEAR
 Fresh air inletCHECK
 Main gear & BrakesCHECK
 Fuel tank ventCHECK
 Fuel tank sumpDRAIN & NO DRIPS
 Fuel tank & quantityCHECK
 Fuel cap & vent CHECK
 Tie down/chockREMOVE
 Inboard & Outboard Flow StripsCHECK
 Pitot Tube 3 HolesCHECK
 WingtipCHECK
 AileronCHECK
 FlapCHECK

BEFORE ENGINE START

Tail LockIN COCKPIT
 Baggage SECURE
 FlapsRETRACT
 Passenger briefingCOMPLETE
 Seats & seat beltsSECURE
 Fuel selector LOWEST or EITHER TANK
 Circuit breakersCHECK
 Anti Collision Lights ON
 Carb heat OFF
 Brakes SET & HOLD
 DoorsCLOSED & LATCHED
 (Upper & Lower Latches)

ENGINE START

Prime 2-4 STROKES HOT, 2-5 COLD
On Last Stroke Leave Primer Out
 Master ON
 Fuel pumpON CK PRESSURE
 Mixture RICH

Throttle ¼" COLD, ½" HOT
 Propeller area CLEAR
 Starter ENGAGE
 Primer.....

ADVANCE SLOWLY AS ENGINE STARTS

Primer LOCKED
 Throttle ...800 RPM (No Higher Than 1000)
 Oil pressureCHECK
 Fuel pump OFF
 Mixture LEAN

BEFORE TAXI

AvionicsON
 Radio(s) & IntercomSET
 Transponder (1200 VFR) ALT
 ATISCHECK
 Flight instruments SET
 LightsAS APPROPRIATE
 Navigation & TransponderSET
 RadioCLNC, GROUND/CTAF

TAXI

Parking BrakeRELEASE
 BrakesCHECK
 Flight instrumentsCHECK

ENGINE RUNUP

Brakes SET & HOLD
 Oil TempIN THE GREEN
 Fuel selector OTHER TANK
 Mixture (below 5000')RICH
 Throttle 1800 RPM
 Mags (drop 175, diff 50)CHECK
 Vacuum (5.0+.1")CHECK
 Engine gaugesCHECK
 Load meter CHARGING LTS & PITOTON/OFF
 Carb heat (drop/NO RISE)ON
 Throttle (min 500 RPM) IDLE
 Carb heat OFF
 Throttle1000 RPM

BEFORE TAKEOFF

PrimerLOCKED
 Fuel pumpON
 Pitot heat AS REQUIRED
 Flight instrumentsCHECK
 Static SourceNORMAL
 TrimTAKEOFF
 FlapsNORMAL 0°, SHORT/SOFT 21°
 Seats & seat belts UPRIGHT & SECURE
 Doors (Upper & Lower Latches)
 CLOSED & LATCHED
 Takeoff briefingCOMPLETE
 RadioTOWER/CTAF
 #2 Radio (If installed) MONITOR 121.5
PrimerLOCKED
 Lights WHEN CLRD FOR TAKEOFF ... AS APPROPRIATE

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 APP124.1

EMERGENCY (GUARD) 121.5

NASHUA - KASH

ATIS125.1
 GROUND121.8
 TOWER133.2
 BOS APP124.9

PA38-112 PIPER TOMAHAWK CHECKLIST

EAST COAST AERO CLUB

TAKEOFF

Mixture (below 5000') RICH
Throttle FULL
Power 2200-2350 RPM=STATIC
Engine gauges CHECK
Airspeed CHECK
Rotate (0°/21°) 53/53 KIAS

CLIMB

Flaps RETRACT AT SAFE SPEED (60 KIAS)
Airspeed (cruise climb) 70 KIAS/500' MIN
Fuel pump OFF
Fuel & Oil pressure CHECK

CRUISE

Power AS REQUIRED
Mixture LEAN AS REQUIRED

FUEL TANK SWITCH

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

DESCENT

Power AS REQUIRED
Mixture RICHEN AS REQUIRED
Fuel selector FULLEST TANK
ATIS OBTAIN
Altimeters SET
Carb heat AS REQUIRED
Seats & seat belts UPRIGHT & SECURE

APPROACH & LANDING

Downwind 80 KTS
Fuel pump ON
Mixture (below 5000') RICH
Carb heat AS REQUIRED
Flaps (<89 KIAS) AS REQUIRED
Landing (0°) 70 KIAS
Landing (34°) 67 KIAS

AFTER LANDING

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

SHUTDOWN

Call for fuel AS REQUIRED
Avionics OFF
Throttle IDLE
Mixture CUTOFF

WHEN PROP STOPS

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

- END OF NORMAL PROCEDURES -

SPEEDS

Vg (0°) 70 KIAS
glide distance approx 1 NM per 550'
Va (1670/1227 lbs) 103/90 KIAS
Vfe 89 KIAS
Vy (0°) 70 KIAS
Vx (0°) 61 KIAS
Vx (21°) 61 KIAS
Vs0 Full Flaps 47 KIAS

AIRPLANE SPECS

Usable fuel **tabs**/full 20g/30g
Taxi fuel 1.0g
Climb fuel 8.0 GPH
Crosswind 17 KTS

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
Fire Extinguisher (If installed) ACTIVATE
ABANDON AIRCRAFT IF FIRE CONTINUES

ENGINE POWER LOSS IN FLIGHT

Fuel selector SWITCH-TANK WITH FUEL
Fuel pump ON
Mixture RICH

Carb heat ON
Primer LOCKED
Magnetos L then R then back to BOTH
Throttle & Mixture TRY DIFFERENT
..... SETTINGS
Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 70 KIAS
Landing area IDENTIFY
Radio MAYDAY
ELT ON
Transponder 7700
Final approach (Full Flaps) 67 KIAS
Magnetos OFF
Master switch OFF
Fuel selector OFF
Mixture CUTOFF
Seatbelts SECURE
Door UNLATCH

ENGINE ROUGHNESS

Carb heat ON
If still rough after ONE MINUTE:
Carb heat OFF
Mixture ADJUST TO SMOOTHEST
Fuel pump ON
Fuel selector SWITCH TANKS
Engine gauges CHECK
Magnetos CHECK SMOOTHEST
Mixture RICH
Land AS SOON AS PRACTICAL

ENGINE FIRE IN FLIGHT

Fuel selector OFF
Throttle CLOSED
Mixture CUTOFF
Fuel pump OFF
Cabin Heat & 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 switch OFF
Alternator switch OFF
Vents OPEN
Heater & defroster OFF
Fire extinguisher (If installed) AS NECSRY
Land AS SOON AS PRACTICAL

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