

Before Starting	
Walk Around	COMPLETE per POH
Weight & Balance	CHECK
Documents	A.R.O.W
Hobbs	NOTED
Fuel	QUANTITY, SUMPED
Fluids	OIL, COOLANT, BRAKE
Chocks/Tie-down	REMOVED
Tow Bar	STOWED
Canopy	CLOSED.LOCKED
Seat Belts	ON.LOCKED
Headsets	PLUGGED IN
Trim	SET FOR TAKE-OFF
Flaps	0 DEG FOR TAXI
Center Console	LEVERS ALL IN
Ignition Key	OFF
Throttle	IDLE.BACK
Toggles	OFF. ALL DOWN
Circuit Breakers	SET. ALL IN
Parking Brake	OFF. Use Toe Brakes

While Taxiting	
Brakes	CHECK OPS
Control Stick	SET FOR WIND DIR.
Turn Coordinator	CHECK OPS
Directional Gyro	CHECK OPS
Artificial Horizon	CHECK OPS

Run Up Area	
C.I.G.A.R.R.S.	
Controls (Flight)	FREE. CLEAR. CORRECT
Instruments	SET Altimeter. DG and AH
Gas	ON. In
Attitude	TRIM set for take-off
Radios	SET, Check OBS
Run Up	Oil Temp ABOVE 122 deg 4000 RPM -300 drop-150 diff. CHECK Eng Gages, Carb Heat CHECK Idle
Safety	Seat Belts ON, Canopy LOCKED, Baggage STOWED

Engine Start	
Battery	ON
Generator	ON
Alternator	ON
Engine Monitor	BOOTED
Fuel Pump	ON. Green Arc Then OFF
Choke	ON For cold start
Throttle	IDLE. Back to stops
Strobe lights	ON
Prop Area	CLEAR
Ignition Key	START
Throttle	2000-2500 RPM
Oil Pressure	+ 29 PSI
Choke	OFF Idle 2000-2500 RPM
Idle	MAX 2500rpm until + 122 deg oil temp

Before Entering the Runway	
Lights	STROBE LIGHTS On POSITION LIGHTS On Night TAXI LIGHT As Needed LANDING LIGHT As Needed INSTRUMENT LIGHTS As Need GPS Display Back Light Set
Transponder	ALT. 1200
Check	Sweep the Panel Breakers, Toggles, Eng Gages, Instruments OIL HEAT LEVER IN . OFF FUEL PUMP ON FLAPS 0 - 15 deg PARKING BRAKE OFF PATTERN CHECK CLEAR

Before Taxi	
Avionics Master	ON
Gyros	ON. Cage
Strobes for taxi	ON. Day Ops OFF Night Ops
Position Lights	ON. Night Ops
Landing Lights	AS NEEDED
Taxi Lights	AS NEEDED
Inst. Lights	AS NEEDED
Oil Heating Lever	AS NEEDED
Transponder	STAND BY
GPS	ENTER Flight Plan
Radio	TUNE. Adj. Squelch Vol.

Speeds	
Vx	53 KTS IAS
Vy	58 KTS IAS
Vglide	58 KTS IAS
Va	90 KTS IAS
Max Cross - wind	11.7 KTS

Common Frequencies	
KAPA ATIS	120.3
KAPA Ground	121.8
KAPA Tower	118.9
Practice Area	122.75

Cruise Climb	
Throttle	FULL
Cruise Climb	80 KTS IAS
Flaps	0 deg.
Fuel Pump	OFF 1000 FT. AGL
Engine Gages	MONITOR

Cruise Level	
Throttle	4800-5200 RPM
Trim	FOR LEVEL
Engine Gages	MONITOR
Oil Heat	AS NEEDED

Cruise Descent	
Throttle Va	90KTS AS NEEDED
Trim	AS NEEDED
Carb Heat	AS NEEDED
Oil Heat	AS NEEDED

Pattern Entry	
Fuel Pump	ON
Throttle	3800
Flaps	White Arc, 15 DEG.
Trim	60 KTS IAS
Carb Heat	AS NEEDED
Oil Heat	LEVER IN OFF

Final Approach	
Fuel Pump	ON
Carb Heat	AS NEEDED
Flaps	15-40 DEG.
Air Speed	55 KTS IAS

Balked Landing	
Throttle	FULL
Pitch	CLIMB
Flaps	15 DEG
Carb Heat	AS NEEDED
Airspeed	53-58 KTS IAS

Post Landing	
Fuel Pump	OFF
Flaps	0 DEG.
Transponder	STBY

Shut Down	
Toggles	LGTS,GYROS,AVIONICS, FUEL PUMP: OFF
Throttle	(BATT,GEN,ALT stay on) BACK . IDLE
Ignition Key	OFF; REMOVE KEY
Toggles	ALL OFF
Parking Brake	ONLY IF NEEDED (use chocks instead)
Fuel	OFF . PULL OUT

Engine Failure During Take Off	
Land	Ahead
Air Speed	44 KTS IAS
Throttle	OFF . PULL
Fuel Pump	OFF
Alt. Gen. Batt	OFF
Fuel Valve	OFF . PULL
Ignition	OFF
Canopy	UNLOCK

Engine-Turn Fuel Pump On, Carb Heat On	
Engine Failure During Flight	
Vgldie	58 KTS IAS NO FLAPS
Heading	EMERGENCY LANDING SITE
Fuel Pump	ON
Fuel Valve	OPEN . IN
Carb Heat	ON . PULL
Throttle	BACK . IDLE
Ignition	START
Choke	As NEEDED

EMERGENCY POWER OFF LANDING	
MAYDAY	121.5
Vgldie	58 KTS IAS NO FLAPS
Short Final	48 KTS IAS
Flaps	40 DEG
Throttle	OFF . PULL
Fuel Pump	OFF
Alt. Gen. Batt	OFF
Fuel Valve	OFF . PULL
Ignition	OFF
Canopy	UNLOCK

Engine Fire on Ground	
Fuel Valve	OFF
Throttle	OPEN FULL
Ignition	OFF
Batt. Gen. Alt.	OFF
Extinguisher	USE

Engine-Turn Fuel Pump On, Carb Heat On	
Engine Fire in Flight	
Fuel Valve	OFF
Throttle	OPEN FULL
Ignition	OFF
Batt. Gen. Alt	OFF
Canopy Vents	SHUT
Blow Out Fire	DIVE OR SIDE SLIP
Emergency Power Off Landing	PERFORM

Electrical Fire in Flight	
Batt. Gen. Alt.	OFF
Canopy Vents	OPEN
Extinguisher	USE
Land	



PREFLIGHT INSPECTION CHECKLIST

COCKPIT
Documents
Switches
Ignition key
Battery Switch
Fuel
Strobes
Stall Warning
Battery Switch
Clipboard
Control Stick
Flaps
Canopy
A.R.O.W. CHECK
ALL OFF
OFF & OUT
ON
CHECK QUANTITY
ON, CHECK, OFF
CHECK AUDIBILITY
OFF
COMPLETE PAPERWORK
FREE, CLEAR, CORRECT
SET TO 40°
CLOSED (use handle)

NOSE
CHECK LEVEL,
SUMP TANK
CHECK (burp first)
CHECK CONDITION
CHECK ATTACHMENT
CHECK CONDITION
CLEAR
CHECK CONDITION,
TIRE TREAD & INFLATION
CHECK UNDERSIDE
CHECK ATTACHMENTS
CHECK LEVEL
CHECK ATTACHMENTS &
CONDITION
Fuel
Oil Level
Engine
Spinner
Propeller
Air Intakes
Nose Gear
Nose Wheel Pant
Cowling
Coolant, Brakes
Canopy

LEFT WING
Landing Gear
Tire
Wheel Covers
Wing Surface
Pilot/Static
Wing Tip
Position Lights/ Beacons
Aileron
Flap
CHECK CONDITION
CHECK TREAD &
INFLATION
CHECK CONDITION
CHECK OVERALL
CONDITION
CHECK PORTS CLEAR
CHECK SURFACE
CONDITION
CHECK CONDITION &
ATTACHMENTS
CHECK CONDITION,
ATTACHMENTS &
MOVEMENT
CHECK CONDITION &
ATTACHMENTS

FUSELAGE
Antennas
Structure
CHECK CONDITION
CHECK OVERALL
CONDITION

EMPENNAGE
Tail Unit
Tail Skid
Rudder
Elevator
Trim Tab
CHECK OVERALL CONDITION
CHECK CONDITION
CHECK CONDITION,
ATTACHMENTS &
MOVEMENT
CHECK CONDITION,
ATTACHMENTS &
MOVEMENT
CHECK CONDITION

RIGHT WING
Flap
Aileron
Wing Tip
Position Lights/ Beacons
Wing Surface
Landing Gear
Tire
Wheel Covers
CHECK CONDITION &
ATTACHMENTS
CHECK CONDITION,
ATTACHMENT & MOVEMENT
CHECK SURFACE CONDITION
CHECK CONDITION &
ATTACHMENTS
CHECK OVERALL CONDITION
CHECK CONDITION
CHECK TREAD & INFLATION
CHECK CONDITION

Preflight Inspection

Please return this checklist to aircraft after completion of inspection.