



ENGINE START

Seats and Belts (Passenger Brief)	COMPLETE
Brakes	TEST
Radios and Electrical	OFF
Fuel Selector	ON
Beacon	ON
Circuit Breakers	ALL IN
Throttle	Open ½"
Mixture	FULL IN
ENGINE COLD PRIME	3 STROKES
ENGINE HOT DO NOT PRIME	
Battery Switch	ON
Area Clear/Ignition Start	START
Throttle	1000 RPM
Oil Pressure	GREEN
Alternator Switch	ON
Ammeter	CHARGING
Avionics Switch	ON
Transponder	ON/ALT
Flaps	RETRACT
ATIS/AWOS/ASOS	OBTAIN
Clearance Delivery	As Req.

PRE-TAXI CHECK

Mixture Lean on Ground	2-3 Inches
Altimeter	Set
Transponder Code	SET/ALT
Area Clear (R,N,L)	CHECK
Brakes Release and TEST	TEST



ENGINE AND SYSTEM CHECK

1000 rpm	SET
Flight Controls Free and Correct	CHECK
Circuit Breakers	ALL IN
Flight Instruments	SET
Mixture	RICH
Fuel Selector	ON
Throttle	1700
Magnetos (LEFT-RIGHT-BOTH)	CHECK
Carburetor Heat	CHECK
Engine and Suction Gauges	CHECK
Throttle to Idle	1000 RPM
Avionics and Radios	SET

BEFORE TAKE OFF

Flaps (10° max perf.)	As Req.
Mixture (PUSH)	RICH
Trim (take off)	ADJUST
Doors and Windows	CLOSED
Strobes/Landing Light	ON
Circuit Breakers	IN
Transponder	ALT

CRUISE CHECK

Throttle	As Req.
Engine Instruments	CHECK
Landing Light	OFF
Flaps Up	CHECK



CRUISE CHART – 1670 lbs std. day

Pressure ALT	RPM	% HP	KTAS	GPH
2000	2400	75	101	6.1
	2300	66	96	5.4
	2200	59	91	4.8
4000	2450	75	103	6.1
	2400	71	101	5.7
	2300	63	95	5.1
	2200	56	90	4.6
6000	2500	75	105	6.1
	2400	67	100	5.4
	2300	60	95	4.9
	2200	54	89	4.4
8000	2550	75	107	6.1
	2500	71	104	5.8
	2400	64	99	5.2
	2300	58	94	4.7

ENGINE FAILURE IN FLIGHT

1	Best Glide	60 KIAS
2	Primer	LOCKED
3	Ignition	ON/BOTH
4	Carb Heat	ON
5	Mixture	IN/RICH
6	Fuel Selector	ON

Try and Restart

If Power Not Restored LAND WITHOUT ENGINE POWER

**Notify – ATC/121.50
Transponder 7700**



BEFORE LANDING

Instrument Approach	As Req.
Briefing	
Weather/ATIS	OBTAIN
Seat Belts, Shoulder Harnesses	SECURE
Mixture	RICH
Carb Heat (ON below 2000 RPM)	As Req.
Landing Light	ON
Circuit Breakers	ALL IN
Flaps as Required	CHECK

AFTER LANDING

Flaps	UP
Carburetor Heat	OFF
Unnecessary Lights	OFF
Taxi Clearance	As Req.

SECURING/SHUTDOWN

Avionics	OFF		
Mixture	IDLE/CUTOFF		
Ignition (when prop stops)	OFF		
Master Switch	OFF		
Best Glide	60 KIAS	Rotate (Vr)	55 KIAS
Stall (Vso)	33 KIAS	Stall (Vs1)	44 KIAS
Best Angle (Vx)	60 KIAS	Best Rate (Vy)	76 KIAS



EMERGENCY DESCENT

Throttle	IDLE
Flaps	FULL
Airspeed	85 KTS
Notify ATC	121.50

LANDING WITHOUT ENGINE POWER

Best Glide	65 KIAS
Mixture	IDLE/CUTOFF
Fuel Selector	OFF
Ignition Switch	OFF
Flaps	As Req.
Master Switch	OFF

ELECTRICAL FIRE

Master Switch	OFF
Vents, Cabin Air, Cabin Heat	OFF
Fire Extinguisher	ACTIVATE
Avionics Master	OFF
Electrical Switches	OFF
Individual Radio Switches	OFF
Master Switch	ON
Avionics Master	ON
Radios and Electrical (ONE AT A TIME)	ON

CABIN FIRE

EMERGENCY DESCENT

LAND AS SOON AS POSSIBLE

Master Switch	OFF
Vents, Cabin Air, Cabin Heat	OFF
Fire Extinguisher	ACTIVATE
After discharging an extinguisher within a closed cabin, ventilate the cabin	



INTERIOR

Documents (AROW)	ON BOARD
Control Lock	REMOVE
Radios, Avionics, Electrical	OFF
Battery Switch	ON
Fuel Gauges	CHECK
Lights (Night Ops.)	CHECK
Pitot Heat (IFR)	CHECK
Flaps	DOWN
Fuel Selector	ON/BOTH

EXTERIOR

Left Fuselage	CHECK
Horizontal Stab, Elevator	CHECK
Vertical Stab, Rudder	CHECK
Tail Tie Down	REMOVE
Right Fuselage	CHECK
COM/NAV, ELT, Antennas	CHECK
Right Flap, Aileron, Nav Light	CHECK
Right Tie Down	REMOVE
Right Tire, Brakes, Ldg Gear	CHECK
Right Fuel Sump (1) and Qty	CHECK
Oil Quantity and Belly Fuel Sump	CHECK
Cowl Plugs, Alternator Belt, Air Filter	CHECK
Static Port, Pitot, Stall Slot	CHECK
Left Tie Down	REMOVE
Left Nav Light, Aileron, Flaps	CHECK
Left Tire, Brakes, and Ldg Gear	CHECK
Left Fuel Sump (1) and Qty	CHECK
General Walk Around	CHECK