

<b>PRE-FLIGHT</b>	
Aircraft Exterior	Check Condition Thoroughly Fuel / Oil Leaks? Spats + Tires?
Fuel	DRAIN + DIP
Oil Quantity	CHECK MIN 4 QUARTS
Chocks / Ties	REMOVE
Intake Bungs	REMOVE
Pitot Cover	REMOVE
Rudder Lock	REMOVE
External Lighting + Pitot Heat	CHECK
Flight Controls	FULL + FREE

<b>STARTING ENGINE</b>	
Brakes	ON
Mixture	RICH
Fuel Pump	ON & GREEN For 3 seconds
Fuel Pump	OFF
<u>Only If Engine Cold:</u>	
Throttle	5 PUMPS
Throttle	1/4 INCH
Left Mag	ON
Area	CLEAR
Engine	START Crank up to 10 seconds
Right Mag	ON AFTER ENGINE START
Throttle	1000 RPM

<b>BEFORE START</b>	
Pre-flight	COMPLETED
MR	VAILD + SIGNED
Pax Brief	COMPLETE
Fuel Caps	SECURED
Harness	TIGHTEN
Fuel Selector	FULLEST
Circuit Breakers	CHECK IN
Master (Bat+Alt)	ON
Dynon	POWERING ON

<b>AFTER START</b>	
Oil Pressure	GREEN
Volts + Amps	14V, AMPS GREEN
Avionics	ON + SET
Flaps	UP
Mixture	LEAN (6-7 LPH)
Nav Lights	ON

<b>TAXI</b>	
Fuel Selector	SWITCH FOR TAXI
Brakes	CHECK
Directional Instruments	CHECK

**ENGINE RUNUP**

Brakes	ON
Mixture	RICH
Fuel Selector	FULLEST
Throttle	2000 RPM
Mags	L + R CHECKED Max Drop 150 RPM Max Diff. 50 RPM
Carby Heat	>10 RPM DROP
Engine T + P	CHECK
Volts + Amps	CHECK
Low Idle	600-800 RPM
Throttle	1000 RPM

**BEFORE TAKEOFF**

Mixture	RICH
Mags	BOTH ON
Elevator Trim	SLIGHTLY AFT
Aileron Trim	NEUTRAL
Flaps	SET 0 OR 15
Pitot Heat	AS REQUIRED
Instruments	SET
Fuel Pump	ON
Flight Controls	FULL + FREE
Canopy	LOCKED
Safety Brief	COMPLETE

**HOLDING POINT**

Mixture	RICH
Fuel Pump	ON
Lights + Strobes	ON
Transponder	CHECK
Canopy	LOCKED

**AFTER TAKEOFF**

300' Flaps	UP
500' Fuel Pump	OFF
Fuel Pressure	CHECK
Landing Lights	OFF

**CRUISE**

Compass	CHECK
Log	UPDATE
Engine	T + P
Altimetry	CHECK
Radios	CHECK + SET
Orientate	DO
Fuel	CONSIDER
Forced Landing	HAVE A PLAN

**PRE-LANDING**

Autopilot	OFF
Brakes	CHECK
Mags	BOTH ON
Mixture	RICH
Fuel Selector	FULLEST
Fuel Pump	ON
Landing Lights	ON
Harness	TIGHT

**FINAL**

Flaps	<78 KIAS, FULL
Speed	65 KIAS
Carby Heat	OFF

**AFTER LANDING**

Elevator Trim	NEUTRAL
Fuel Pump	OFF
Flaps	UP
Transponder	STBY
Mixture	LEAN (6-7 LPH)
Landing Lights	OFF
Pitot Heat	OFF

**SHUTDOWN**

Avionics	OFF
Flaps	FULL DOWN
Throttle	1000 RPM
Mixture	IDLE CUTOFF
Propeller	STOPPED
Mags	BOTH OFF
All Switches	OFF

**ENGINE FAILURE  
AFTER TAKEOFF**

Airspeed	70 FLAPS FULL 80 FLAPS UP
Fuel Selector	OFF
Mixture	IDLE CUT OFF
Ignition Switches	OFF
Flaps	AS REQUIRED
Master (Bat+Alt)	OFF

**ENGINE FAILURE  
IN FLIGHT**

Airspeed	80 FLAPS UP
Fuel Selector	SWITCH TANK
Fuel Pump	ON
Mixture	EXERCISE + RICH
Carb Heat	EXERCISE + RICH
Throttle	EXERCISE + IDLE SET
Starter Button	PUSH
Radios	7700 + DECLARE EM

**WING FIRE  
IN FLIGHT**

External Lighting	OFF
Radios	7700 + DECLARE EM
LAND IMMEDIATELY	

**ENGINE FIRE  
IN FLIGHT**

Fuel Selector	OFF
Mixture	IDLE CUTOFF
Electrical Systems	CONSIDER
Air / Heat Vents	CLOSE
Fire Extinguisher	USE IF REQD
Radios	7700 + DECLARE EM
LAND IMMEDIATELY	

**ENGINE FIRE  
ON GROUND**

Starter	PUSH MIN 30 SEC
<b>IF ENGINE STARTS:</b>	
Power	1700 (60sec)
Mixture	IDLE CUTOFF
Engine	SECURE
Fire Extinguisher	USE IF REQD
<b>IF ENGINE FAIL TO START:</b>	
Throttle	FULL
Starter	KEEP CRANKING (30sec)
Engine	SECURE
Fire Extinguisher	USE IF REQD

**CABIN OR ELECTRICAL FIRE  
ON GROUND**

Electrical Systems	OFF
Fuel Systems	OFF
Air / Heat Vents	CLOSE ALL
Fire Extinguisher	USE IF REQD

**CABIN OR ELECTRICAL FIRE  
IN FLIGHT**

Electrical Systems	OFF
Fuel Systems	CONSIDER
Air / Heat Vents	CLOSE ALL
Fire Extinguisher	USE IF REQD
LAND IMMEDIATELY	

**ALTERNATOR FAILURE**

Avionics	OFF
Master Switch	OFF
Alternator Breaker	RESET
Master Switch	ON
<b>IF ALTERNATOR STILL IS OFFLINE</b>	
Alternator Breaker	OFF
Avionics	ON
Electrical Loads	REDUCE
Land	ASAP

**HIGH CO ALARM**

Cabin Heat	CLOSE
Fresh Air Vents	OPEN
<b>IF ALARM REMAINS: Land ASAP</b>	

AIRSPEEDS	KIAS
Best Glide Clean	80
Best Glide Flaps	70
Vy	76
Vx	66
Vne	182
Vno	156
Va	102
Flaps 15	86
Flaps 30	78
Vso / Vs	44 / 49
<b>IN THE CIRCUIT</b>	
Base	75
Final	65
Add 5KT to base and final if flapless	