



"I'M SAFE"		ENGINE START		BEFORE TAKE-OFF		IN-RANGE		BEFORE LANDING		AFTER LANDING		
I	ILLNESS	Flaps	UP	Departure	BRIEFED	ATIS / Weather	OBTAIN	Trim	AS REQUIRED	Pitot Heat	OFF	
M	MEDICATION	Propeller Area	CLEAR	Seats & Belts	SECURE	Altimeters (x2)	SET	LC GUMPS	Fuel Pump	OFF	Fuel Pump	OFF
S	STRESS	Mixture	FULL RICH	Door/Windows	CLOSED	Approach	BRIEF		Landing Light	ON	Mixture	LEAN FOR TAXI
A	ALCOHOL	Throttle	1/4 IN	Trim	SET	DESCENT		Carb Heat	CYCLE	Flaps	RETRACT	
F	FATIGUE	Master	ON	Instruments & Avionics	SET	Flaps	AS REQUIRED	Fuel	FULLEST TANK	Anti-Collision	OFF	
E	EMOTION	Fuel Pump	ON	Flaps	AS REQUIRED	Trim	SET	Fuel Pump	ON	Landing Light	AS REQ'D	
A/C ACCEPTANCE		Fuel Pressure	CHECK	Lights	ALL ON	Mixture	AS REQUIRED	Mixture	RICH	SHUTDOWN		
Weather / NOTAMs		Prime	6-8 STROKES	Transponder	CHECK	Altimeters (x2)	SET	Seat-belts	CHECK	Brakes	OFF	
Weight & Balance		Magnetos	START	DG/Heading Bug	SET	APPROACH		<i>Below 102 KTS</i>		Lights	OFF	
Performance		Oil Pressure	GREEN	Pitot Heat	AS REQUIRED	Altimeters (x2)	SET	Flaps	AS REQUIRED	Flaps	RETRACTED	
Flight Plan		Throttle	1,000 RPM	Mixture	FULL RICH	TAKE-OFF		Brake Pressure	CHECK	Trim	SET	
Maintenance Status		Fuel Pump	OFF	Fuel Pump	ON	Engine Inst.	GREEN	<i>Final – trim for 76 KTS</i>		Avionics & PFD	OFF	
Fire Extinguisher		Fuel Pressure	CHECK	CLIMB		Vr – 55 KTS	ROTATE	BALKED LANDING		Heat / Fans	OFF	
Hobbs Meter		Mixture	LEAN FOR TAXI	Vx – 64 KTS	CLIMB	300ft AGL	FLAPS UP	Throttle	FULL	Throttle	IDLE	
Tachometer Time		Ammeter	CHECK	Vy – 76 KTS	CLIMB	CLIMB		Carb Heat	OFF	Mixture	CUT-OFF	
A.R.O.W.		BEFORE TAXI		CLIMB		Flaps	UP	Flaps	UP	Magnetos	OFF	
PRE-FLIGHT		Avionics & PFD ON		Flaps 1,000ft AGL PUMP OFF		Fuel Pressure	CHECK	Vy	76 KTS	Master	OFF	
Fuel Selector		ATIS / Wx OBTAIN		Flaps 1,000ft AGL PUMP OFF		Lights	AS REQUIRED	<i>GO TO CLIMB CHECKLIST</i>		Control Lock	SECURE	
Alt. Static Source		Clearance OBTAIN		Fuel Pressure		Lights	AS REQUIRED			Chocks / Ties	SECURE	
Avionics & PFD		Altimeters (x2) & Inst. SET		Lights		Engine Inst.	MONITOR	Best Economy – 55%		Best Power – 75%		
Control Lock		GPS/Flight-plan SET		Engine Inst.		Vy – En Route	87 KTS	Peak EGT		Peak EGT +100°F		
Master		Radios SET		Fuel		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		2,300 RPM / 6.3 GPH		2,450 RPM / 7.6 GPH		
Fuel Gauges		Transponder CODE/ALT		Lights		V SPEEDS		2,450 RPM / 9.0 GPH		2,550 RPM / 10.5 GPH		
Annunciators		Lights AS REQUIRED		Throttle		V speed		Best Power – 65%		Best Power – 65%		
Lights		Taxi Route BRIEFED		Mixture		BEST GLIDE		Peak EGT +100°F		Peak EGT +100°F		
Pitot Heat		Brakes TEST		Trim		76		2,300 RPM / 6.3 GPH		2,450 RPM / 7.6 GPH		
CHECK IF IFR		RUN UP		Throttle		154		2,450 RPM / 9.0 GPH		2,550 RPM / 10.5 GPH		
OFF		Parking Brake SET		Lights		125		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CLEAR		Flight Ctrls FREE/CORRECT		DG		113		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Mixture RICH		Engine Inst.		49		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Throttle 2,000 RPM		Fuel		55		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Magnetos CHECK		30 MIN / SWITCH		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Carb Heat CHECK				V SPEEDS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Gauges CHECK		N8439Z		Vne		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Ammeter CHECK		N8439Z		Vno		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Idle CHECK		N8439Z		Va		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Throttle 1,000 RPM		N8439Z		Vs0		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Annunciators TEST/CHECK		N8439Z		Vs1		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		BEFORE START		N8439Z		Vfe		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Pre-Flight COMPLETE		N8439Z		V speed		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Passengers BRIEFED		N8439Z		BEST GLIDE		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Seat & Belts SECURE		N8439Z		76		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Brakes SET		N8439Z		154		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Fuel PROPER TANK		N8439Z		125		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Mixture CUT-OFF		N8439Z		113		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Avionics & PFD OFF		N8439Z		49		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Beacon ON		N8439Z		55		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Circuit Breakers CHECK		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		BEFORE START		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Pre-Flight COMPLETE		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
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CHECK		Brakes SET		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
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CHECK		Avionics & PFD OFF		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Beacon ON		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		
CHECK		Circuit Breakers CHECK		N8439Z		102		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		

EMERGENCY PROCEDURES

EMERGENCY PROCEDURES

ENGINE FAILURE – TAKEOFF

IF RUNWAY REMAINS...
LAND STRAIGHT AHEAD

BEST GLIDE 76 KTS

FUEL SELECTOR SWITCH TANKS

FUEL PUMP ON

MIXTURE RICH

CARB HEAT ON

PRIMER LOCKED

IF POWER IS NOT REGAINED...
PROCEED TO POWER OFF LANDING

POWER OFF LANDING

BEST GLIDE 76 KTS

LANDING SITE COMMIT

FLAPS AS DESIRED

IGNITION OFF

MASTER OFF

THROTTLE CLOSE

MIXTURE CUT-OFF

DOORS UNLATCHED

SEAT BELTS FASTENED

CARB ICING

CARB HEAT ON

ADJUST MIXTURE FOR MAX SMOOTHNESS

HIGH OIL TEMPERATURE

LAND AT NEAREST AIRPORT

PREPARE FOR POWER OFF LANDING

ENGINE FAILURE – IN-FLIGHT

IF LOW ALTITUDE...

BEST GLIDE 76 KTS

PREPARE FOR POWER OFF LANDING

IF ALTITUDE PERMITS...

BEST GLIDE 76 KTS

FUEL SELECTOR SWITCH TANKS

FUEL PUMP ON

MIXTURE RICH

CARB HEAT ON

ENGINE INSTRUMENTS CHECK

PRIMER LOCKED

LOSS OF OIL PRESSURE

IF POWER IS RESTORED...

FUEL PUMP OFF

CARB HEAT OFF

IF POWER IS NOT RESTORED...
PROCEED TO POWER OFF LANDING

SQUAWK 7700

DECLARE EMERGENCY
(ATC or 121.5)

LOSS OF FUEL PRESSURE

LAND AS SOON AS POSSIBLE

PREPARE FOR POWER OFF LANDING

ENGINE FAILURE – TAKEOFF

LAND AT NEAREST AIRPORT

PREPARE FOR POWER OFF LANDING

FIRE DURING START

STARTER ENGAGE

MIXTURE CUT-OFF

THROTTLE OPEN

FUEL PUMP OFF

FUEL SELECTOR OFF

EVACUATE IF FIRE CONTINUES

FIRE DURING TAXI

AIRPLANE STOP

MIXTURE CUT-OFF

FUEL OFF

MASTER OFF

EVACUATE AIRCRAFT

ENGINE ROUGHNESS

CARB HEAT ON

IF ROUGHNESS CONTINUES AFTER 1 MINUTE...

CARB HEAT OFF

MIXTURE ADJUST FOR MAX SMOOTHNESS

FUEL PUMP ON

FUEL SELECTOR SWITCH TANKS

ENGINE GAUGES CHECK

MAGNETOS L then R then BOTH

If operation is satisfactory on either one, continue on that magneto at reduced power and full "RICH" mixture to the first airport.

PREPARE FOR POWER OFF LANDING

SPIN RECOVERY

THROTTLE IDLE

AILERONS NEUTRAL

RUDDER OPPOSITE DIRECTION OF ROTATION

YOKE FULL FORWARD

RUDDER AND YOKE NEUTRAL WHEN ROTATION STOPS.
YOKE AS REQUIRED TO REGAIN LEVEL FLIGHT.

ENGINE FIRE IN FLIGHT

FUEL SELECTOR OFF

THROTTLE CLOSED

MIXTURE CUT-OFF

FUEL PUMP OFF

CABIN HEATER OFF

PREPARE FOR POWER OFF LANDING

CABIN FIRE IN FLIGHT

MASTER OFF

VENTS OPEN

CABIN HEAT OFF

LAND AS SOON AS POSSIBLE

ELECTRICAL

INSUFFICIENT CHARGE:
Turn off non-essential items.
Check circuit breakers.
Turn Alt switch off for 1 second, then on.

IF NO OUTPUT...
LAND A.S.A.P.
LOST COMM: SQUAWK 7600

EXCESSIVE CHARGE:
Turn off BATT Master. If ammeter reading DOES NOT decrease, turn Alt switch off. LAND A.S.A.P.

If ammeter reading DOES decrease, turn BATT Master switch on and monitor for 5 minutes, then land A.S.A.P.

ATC LIGHTS

Light Gun	On Ground	In Flight
Steady Green	Clr Takeoff	Clr Land
Flashing Green	Clr Taxi	Return/Land
Steady Red	Stop	Yield/Circle
Flashing Red	Taxi off Rwy	Do Not Land
Flashing White	Return	--
Alt Red/Green	Use Caution	Use Caution

WEIGHT & BALANCE

AS OF 5/27/2020

USEFUL LOADS

W/ PANTS 970 LBS

W/O PANTS 981 LBS

