


"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	SET	LC GUMPS		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 (Wing)	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 BRIEF		Prime	6-8 STROKES	Transponder	CHECK	Altimeters	SET	Seat-belts	CHECK	Brakes	SET
Weight & Balance PERFORM		Magnetos	START	DG/Heading Bug	SET	APPROACH		<i>Below 102 KTS</i>		Lights	OFF
Performance CALCULATE		Oil Pressure	GREEN	Pitot Heat	AS REQUIRED	Radio	SET	Flaps	AS REQUIRED	Transponder	STANDBY
Flight Plan FILED		Throttle	1,000 RPM	Mixture	FULL RICH	Audio Panel	SET	Brake Pressure	CHECK	Flaps	RETRACTED
Maintenance Status CHECK		Fuel Pump	OFF	Fuel Pump	ON	Fuel	FULLEST TANK	<i>Final - trim for 76 KTS</i>		Trim	SET
Fire Extinguisher CHECK		Fuel Pressure	CHECK	TAKE-OFF		Fuel Pump	ON	BALKED LANDING		Avionics	OFF
Hobbs Meter VERIFY		Mixture	LEAN FOR TAXI	Engine Inst.	GREEN	Approach	BRIEF	Throttle	FULL	Heat / Fans	OFF
Tachometer Time CHECK		Ammeter	CHECK	Vr - 55 KTS	ROTATE	Minimums	NOTE	Carb Heat	OFF	Throttle	IDLE
A.R.O.W. CHECK		BEFORE TAXI		Vx - 64 KTS	CLIMB	Missed Approach	BRIEF	Flaps	UP	Mixture	CUT-OFF
PRE-FLIGHT		Avionics	ON	300ft AGL	FLAPS UP	Auto-Pilot	SET	Vy	76 KTS	Magnetos	OFF
Fuel Selector	PROPER TANK	ATIS / Wx	OBTAIN	Vy - 76 KTS	CLIMB	CDI / Nav Source	SET	<i>GO TO CLIMB CHECKLIST</i>		Master	OFF
Alt. Static Source	CHECK	Clearance	OBTAIN	CLIMB		Pitot Heat	ON			Control Lock	SECURE
Avionics Switch	OFF	Altimeters & Inst.	SET	Flaps	UP	Lights	AS REQUIRED	Best Economy - 55% Peak EGT 2,300 RPM / 6.3 GPH		Chocks / Ties	SECURE
Control Lock	REMOVED	GPS/Flight-plan	SET	1,000ft AGL	PUMP OFF	Engine Inst.	MONITOR	Best Economy - 65% Peak EGT 2,450 RPM / 7.6 GPH		Hobbs Time	LOG
Master	ON	Radios	SET	Fuel Pressure	CHECK	Vy - En Route	87 KTS	Best Power - 65% Peak EGT +100°F 2,450 RPM / 9.0 GPH		Cabin	CLEAN UP
Fuel Gauges	CHECK	Transponder	CODE/ALT	Lights	AS REQUIRED	SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS		Best Power - 75% Peak EGT +100°F 2,550 RPM / 10.5 GPH			
Annunciators	TEST/CHECK	Lights	AS REQUIRED	Taxi Route	BRIEFED	V SPEEDS		FUEL, OIL, ELEC.		WEIGHT & BALANCE	
Lights	CHECK	Brakes	TEST	Run Up		V speed	KIAS	USABLE FUEL:		AS OF 5/11/2017	
Pitot / Static	CLEAR	RUN UP		Parking Brake	SET	BEST GLIDE	76	Tanks Full	48 GAL	WITHOUT PANTS:	
Stall Warning	CHECK	Avionics	ON	Flight Ctrls	FREE/CORRECT	Vne	never	Tanks to Tabs	34 GAL	Empty Weight 1,557 LBS	
Fuel	SUMP	Seat & Belts	SECURE	Mixture	RICH	Vno	structural	OIL:		Useful Load 993 LBS	
Oil	CHECK	Brakes	SET	Throttle	2,000 RPM	Va	maneuvering	Typical	5.0-6.0 QTS	WITH PANTS:	
Baggage Door	LOCKED	Chocks / Ties	REMOVED	Magnetos	CHECK	Vs0	stall dirty	Capacity	8.0 QTS	Empty Weight 1,568 LBS	
Chocks / Ties	REMOVED	Walk-Around	COMPLETE	Carb Heat	CHECK	Vs1	stall clean	Minimum	4.0 QTS	Useful Load 982 LBS	
Walk-Around	COMPLETE	BEFORE START		Gages	CHECK	Vfe	flaps	ELECTRICAL:		MAX BAGGAGE 200 LBS	
BEFORE START		Pre-Flight	COMPLETE	Ammeter	CHECK	N38254 - 1977 Archer II - Syracuse Flying Club		Voltage	12 V	MAX TAKE-OFF 2,550 LBS	
Passengers	BRIEFED	Fuel	PROPER TANK	Suction	GOOD	Checklist Revision 2017-05-17		Alternator	60 A		
Seat & Belts	SECURE	Mixture	CUT-OFF	Idle	CHECK						
Brakes	SET	OFF	OFF	Throttle	1,000 RPM						
Avionics	OFF	Avionics	OFF	Annunciators	TEST/CHECK						
Anti-Collision (FIN)	ON										

EMERGENCY PROCEDURES

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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 – IN-FLIGHT

FUEL PUMP ON

FUEL SELECTOR SWITCH TANKS

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.
YOLK 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 5/11/2017

USEFUL LOADS

W/ PANTS 982 LBS

W/O PANTS 993 LBS

