



"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	<b>LC GUMPS</b>		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	<b>DESCENT</b>		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
<b>A/C ACCEPTANCE</b>		Fuel Pressure	CHECK	Lights	ALL ON	Mixture	AS REQUIRED	Mixture	RICH	<b>SHUTDOWN</b>	
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	<b>APPROACH</b>		<i>Below 102 KTS</i>		Lights	OFF
Performance CALCULATE		Oil Pressure	GREEN	Pitot Heat	AS REQUIRED	Altimeters	SET	Flaps	AS REQUIRED	Transponder	STANDBY
Flight Plan FILED		Throttle	1,000 RPM	Mixture	FULL RICH	Radios	SET	Brake Pressure	CHECK	Flaps	RETRACTED
Maintenance Status CHECK		Fuel Pump	OFF	Fuel Pump	ON	Audio Panel	SET	<i>Final – trim for 76 KTS</i>		Trim	SET
Fire Extinguisher CHECK		Fuel Pressure	CHECK	<b>TAKE-OFF</b>		Fuel	FULLEST TANK	<b>BALKED LANDING</b>		Avionics	OFF
Hobbs Meter VERIFY		Mixture	LEAN FOR TAXI	Engine Inst.	GREEN	Fuel Pump	ON	Throttle	FULL	Heat / Fans	OFF
Tachometer Time CHECK		Ammeter	CHECK	Vr – 55 KTS	ROTATE	Approach	BRIEF	Carb Heat	OFF	Throttle	IDLE
A.R.O.W. CHECK		<b>BEFORE TAXI</b>		Vx – 64 KTS	CLIMB	Minimums	NOTE	Flaps	UP	Mixture	CUT-OFF
<b>PRE-FLIGHT</b>		Avionics	ON	300ft AGL	FLAPS UP	Missed Approach	BRIEF	Vy	76 KTS	Magnetos	OFF
Fuel Selector	PROPER TANK	ATIS / Wx	OBTAIN	Vy – 76 KTS	CLIMB	Auto-Pilot	SET	<i>GO TO CLIMB CHECKLIST</i>		Master	OFF
Alt. Static Source	CHECK	Clearance	OBTAIN	<b>CLIMB</b>		CDI / Nav Source	SET			Control Lock	SECURE
Avionics Switch	OFF	Altimeters & Inst.	SET	Flaps	UP	Pitot Heat	ON	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	Lights	AS REQUIRED	Best Economy – 65% Peak EGT 2,450 RPM / 7.6 GPH		Hobbs Time	LOG
Master	ON	Radios	SET	Fuel Pressure	CHECK	<b>V SPEEDS</b>		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	V speed	KIAS	Best Power – 75% Peak EGT +100°F 2,550 RPM / 10.5 GPH		<b>WEIGHT &amp; BALANCE</b>	
Annunciators	TEST/CHECK	Lights	AS REQUIRED	Taxi Route	BRIEFED	<b>BEST GLIDE</b>	<b>76</b>	<b>SEE PERFORMANCE INDEX CARD FOR ADDITIONAL DETAILED POWER SETTINGS</b>		AS OF 11/13/2012	
Lights	CHECK	Brakes	TEST	Engine Inst.	MONITOR	Vne	never	USABLE FUEL:		WITHOUT PANTS:	
Pitot / Static	CLEAR	<b>RUN UP</b>		Vy – En Route	87 KTS	<b>CRUISE</b>		Tanks Full	48 GAL	Empty Weight 1,598 LBS	
Stall Warning	CHECK	Parking Brake	SET	<b>V SPEEDS</b>		Vno	structural	Tanks to Tabs	34 GAL	Useful Load 952 LBS	
Fuel	SUMP	Flight Ctrls	FREE/CORRECT	Throttle	SET	Va	maneuvering	OIL:		WITH PANTS:	
Oil	CHECK	Mixture	RICH	Mixture	ADJUST	Vs0	stall dirty	Typical	5.0-6.0 QTS	Empty Weight 1,609 LBS	
Baggage Door	LOCKED	Throttle	2,000 RPM	Trim	SET	Vs1	stall clean	Capacity	8.0 QTS	Useful Load 941 LBS	
Chocks / Ties	REMOVED	Magnetos	CHECK	Lights	AS REQUIRED	Vfe	flaps	Minimum	4.0 QTS	MAX BAGGAGE 200 LBS	
Walk-Around	COMPLETE	Carb Heat	CHECK	DG	SET TO COMPASS	<b>V SPEEDS</b>		ELECTRICAL:		MAX TAKE-OFF 2,550 LBS	
<b>BEFORE START</b>		Gages	CHECK	Engine Inst.	MONITOR	V speed	KIAS	Voltage	12 V		
Pre-Flight	COMPLETE	Ammeter	CHECK	Fuel	30 MIN / SWITCH	<b>BEST GLIDE</b>	<b>76</b>	Alternator	60 A		
Passengers	BRIEFED	Suction	GOOD			Vne	never				
Seat & Belts	SECURE	Idle	CHECK	N8439Z		Vno	structural				
Brakes	SET	Throttle	1,000 RPM			Va	maneuvering				
Fuel	PROPER TANK	Annunciators	TEST/CHECK			Vs0	stall dirty				
Mixture	CUT-OFF					Vs1	stall clean				
Avionics	OFF					Vfe	flaps				
Anti-Collision (FIN)	ON					<b>N8439Z – 1981 Archer II – Syracuse Flying Club</b>					
Circuit Breakers	CHECK					<b>Checklist Revision 2016-09-12</b>					

## 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 – TAKEOFF

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 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

### 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.

### 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 11/13/2012

**USEFUL LOADS**

W/ PANTS 941 LBS

W/O PANTS 952 LBS

