


"I'M SAFE"		ENGINE START		BEFORE TAKE-OFF		IN-RANGE		BEFORE LANDING		AFTER LANDING			
I	ILLNESS	Brakes	SET	Seats & Belts	SECURE	ATIS / Weather	OBTAIN	GUMPS		Pitot Heat	OFF		
M	MEDICATION	Master	ON	Door/Windows	CLOSED	Altimeters	SET	Fuel	SELECT	Fuel Pump	OFF		
S	STRESS	Beacon	ON	Trims	TAKE-OFF	Approach	BRIEF	Fuel Pump	ON	Mixture	LEAN FOR TAXI		
A	ALCOHOL	Propeller	FORWARD	Flaps	TAKE-OFF	DESCENT		<i>Below 129 KTS</i>		Flaps	RETRACT		
F	FATIGUE	Throttle	1/4 IN	Lights	ALL ON	Power	SET	Landing Gear	DOWN	Trims	SET		
E	EMOTION	Fuel	ON / HIGH TANK	Transponder	CHECK	Fuel	SET	<i>"THREE GREEN"</i>		Lights	AS REQUIRED		
PRE-FLIGHT		Fuel Pump	ON	DG/Heading Bug	SET	Mixture	ENRICH AS REQ.	SHUTDOWN					
Weather / NOTAMS BRIEF		Mixture	RICH 3-5s	Pitot Heat	AS REQ.	Altimeters	SET	Flaps	TAKE-OFF	Brakes	SET		
W&B / Perf. COMPUTE		Mixture	CUT OFF	Propeller	FORWARD	APPROACH		Mixture	RICH	Lights	OFF		
Flight Plan FILED		Fuel Pump	OFF	Fuel Pump	ON	Fuel	FULLEST TANK	Propeller	FORWARD	Flaps	RETRACTED		
A.R.O.W.	CHECK	Magnetos	START	Departure	BRIEFED	Altimeters	SET	Seat-belts	CHECK	Avionics	OFF		
Control Lock	REMOVED	Oil Pressure	GREEN	TAKE-OFF		Approach	BRIEF	<i>Below 103 KTS</i>		Auto-Pilot	OFF		
Magnetos	OFF	Throttle	1,000 RPM	Engine Inst.	GREEN	Minimums	NOTE	Flaps	LANDING	Throttle	1,200 RPM		
Landing Gear	DOWN	Mixture	LEAN FOR TAXI	Vr - 70 KTS	ROTATE	Missed Approach	BRIEF	Brake Pressure	CHECK	Mixture	CUT-OFF		
Mixture	CUT OFF	BEFORE TAXI		Positive Rate	GEAR UP	Auto-Pilot	SET	<i>Short final - trim for 73 KTS</i>		Magnetos	OFF		
Avionics	OFF	Avionics	ON	Vx - 85 KTS	CLIMB	CDI / Nav Source	SET	CHECK "THREE GREEN"		Master	OFF		
Master	ON	Auto-Pilot	TEST	300ft AGL	RETRACT FLAPS	Lights	AS REQUIRED	BALKED LANDING		Fuel	OFF		
Fuel Gauges	CHECK	ATIS / Wx	OBTAIN	Vy - 95-105 KTS	CLIMB	Pitot Heat	ON	Power	FULL	Control Lock	IN		
Lights	CHECK	Clearance	OBTAIN	500ft AGL	25" / 2,500	"Best Power" is achieved by leaning to peak EGT then enriching until +100°F.		Landing Gear	UP	Chocks / Ties	SECURE		
Pitot Heat	CHECK	Altimeters & Inst.	SET	1,000ft AGL	PUMP OFF	<i>"Lean of Peak" operation is not recommended.</i>		Flaps	TAKE-OFF	Hobbs Time	LOG		
Stall Warning	TEST	DG	SET TO COMPASS	CLIMB		V speed	KIAS	<i>GO TO CLIMB CHECKLIST</i>		Cabin	CLEAN UP		
Master	OFF	GPS/flight-plan	SET	Landing Gear	UP	V SPEEDS				WEIGHTS, FUEL, ETC.			
Fuel	SUMP	Radios	SET	Flaps	RETRACTED	BEST GLIDE	92			Empty Weight	1,961 lbs		
Oil	CHECK	Transponder	SET CODE	Lights	AS REQUIRED	Vne	never	187	Useful Load	1,125 lbs	Max Baggage	143 lbs	
Pitot / Static	CLEAR	Lights	AS REQUIRED	Power	25" / 2,500 RPM	Vno	structural	150	Max Take-Off	3,086 lbs	Usable Fuel	86 gallons	
Baggage Door	LOCKED	Taxi Route	BRIEF	Engine Inst.	MONITOR	Va	maneuvering	129	Electrical	14v / 60 amp	Oil Capacity	12 quarts	
Cowl Plugs	REMOVED	Brakes	TEST	Vy - En Route	104 KTS	Vlo	retraction	129	ICAO Code	TB20/G			
Chocks / Ties	REMOVED	RUN UP		CRUISE		Vle	extension	139					
Walk-Around	COMPLETE	Parking Brake	SET	Power	SET	Vfe	flaps	103					
BEFORE START		Flight Cntrls	FREE & CORRECT	Mixture	ADJUST	N84AV		N84AV					
Pre-Flight	COMPLETE	Annunciators	TEST	Trims	SET	1984 Socata Trinidad							
Doors	CLOSED	Propeller	FORWARD	Lights	AS REQUIRED								
Passengers	BRIEFED	Throttle	2,000 RPM	DG	SET TO COMPASS								
Seat-belts	CHECK	Propeller	CYCLE x 3	Engine Inst.	MONITOR								
Circuit Breakers	CHECK	Magnetos	CHECK	Fuel	30 MIN / SWITCH								
Landing Gear	DOWN	Alternate Air	CHECK										
Emergency Gear	PUSHED	Oil Pres. & Temp	GREEN										
Alternate Air	PUSHED	Suction	GOOD										
Alternate Static	PUSHED	Ammeter	CHARGING										
Avionics	OFF	Throttle	FULL- 2,575 RPM										
		Annunciators	CLEAR										
		Throttle	1,000 RPM										

EMERGENCY PROCEDURES

EMERGENCY PROCEDURES

ENGINE FAILURE – TAKEOFF

ENGINE FAILURE – IN-FLIGHT

FIRE DURING START

CABIN FIRE IN FLIGHT

ELECTRICAL

*IF RUNWAY REMAINS...
LEAVE GEAR DOWN,
LAND STRAIGHT AHEAD*

BEST GLIDE 92 KTS
LANDING GEAR UP
FUEL SELECTOR SWITCH TANKS
FUEL PUMP CHECK ON
MIXTURE RICH
MAGNETOS TEST

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

IF LOW ALTITUDE...

BEST GLIDE 92 KTS
PREPARE FOR POWER OFF LANDING

IF ALTITUDE PERMITS...

BEST GLIDE 92 KTS
LANDING GEAR UP
FUEL SELECTOR SWITCH TANKS
FUEL PUMP CHECK ON
MIXTURE RICH
ALTERNATE AIR PULLED
ENGINE INSTRUMENTS CHECK
MAGNETOS CHECK

STARTER ENGAGE
MIXTURE CUT-OFF
THROTTLE OPEN
FUEL PUMP OFF
FUEL SELECTOR OFF

EVACUATE IF FIRE CONTINUES

MASTER OFF
VENTS OPEN
CABIN HEAT OFF

LAND AS SOON AS POSSIBLE

EXCESSIVE CHARGE:
Turn off BATT Master. If ammeter reading DOES NOT decrease, turn Alt switch off. Use emergency gear extension. 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.

INSUFFICIENT CHARGE:
Check circuit breakers. Turn off non-essential items.
LAND A.S.A.P.
LOST COMM: SQUAWK 7600

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

POWER OFF LANDING

POWER OFF LANDING

PROP OVERSPEED

EMERGENCY GEAR EXTENSION

BEST GLIDE 92 KTS
LANDING SITE COMMIT
LANDING GEAR AS REQUIRED
FLAPS AS DESIRED
THROTTLE CLOSE
MIXTURE CUT-OFF
IGNITION OFF
MASTER OFF
DOORS UNLATCHED
SEAT BEATS FASTENED

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

SQUAWK 7700
DECLARE EMERGENCY
(ATC or 121.5)

THROTTLE RETARD
OIL PRES. CHECK
PROP FULL DECREASE
AIRSPEED REDUCE

REDUCE THROTTLE AS REQ.
TO REMAIN BELOW 2,700 RPM

LANDING GEAR LEVER DOWN
CIRCUIT BREAKERS CHECK
GEAR INDICATOR LIGHTS TEST
FLAPS TAKE-OFF
AIRSPEED BELOW 97 KTS
LANDING GEAR LEVER UP
LDG GEAR CIRCUIT BREAKER OPEN
LANDING GEAR LEVER DOWN
EMERGENCY GEAR CONTROL PULL
GEAR DOWN LIGHTS CHECK ON
GEAR TRANSIT LIGHTS CHECK OFF

IF GEAR HAS STILL FAILED, YAW THE AIRPLANE ABRUPTLY WITH RUDDER.
REFER TO THE POH FOR ADDITIONAL TROUBLESHOOTING

LOSS OF OIL PRESSURE

SPIN RECOVERY

LAND AS SOON AS POSSIBLE
PREPARE FOR POWER OFF LANDING

THROTTLE IDLE
AILERONS NEUTRAL
RUDDER OPPOSITE
YOKE FORWARD

RUDDER AND YOKE NEUTRAL
WHEN ROTATION STOPS

HIGH OIL TEMPERATURE

LOSS OF FUEL FLOW

LAND AT NEAREST AIRPORT
PREPARE FOR POWER OFF LANDING

FUEL PUMP CHECK ON
FUEL SELECTOR SWITCH TANKS

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



N84AV

Socata TB-20