PREFLIGHT CHECK

Documents · · · · · · · · · On Board. Airworthness, Registration, Journey Log, Insurance, POH, W&B, Emergency Chklist. Fire Ext · · · · Secured & Not discharged. Right side fresh air intake · · · Free from First Aid Kit · · · · · · · · · On Board. Controls · · Free of motion and Correct. Fuel Selector · · · Off then Desired Tank.

compass card present. Avionics Master/Electrical Switches/ Heater & Froster /Fan-Air/Alt Air · Off **ELT** · · · · · · Switch is armed position.

Do not turn on unless it is emergency. Mixture · · · · · · · · Idle Cut Off. Propeller · · · · · · · · Full Forward. Manifold · · · Closed (All the way down). Give a little tug to ensure Intact. Gear Handle · · · · · · · Down Position. Mags · · · · · · Key removed and Off. Fuel · · Check Cap cascade, Qty, Drained. Flaps ... Easily move all the position. Fuel Drain Check for any contamination / then extend fully.

Emergency Gear Lever · · · · Up Position. If it is down, not be able to retract. Battery Master · · · · · · · Turn On. Exhaust · · · · · · · Attched & Intact. Hubbs Time · · · · · · · · · · · Noted. Fuel Gauges · · · · · Check adquate fuel. 3 Gear Green Lights · · · · · · · Lit Up.

Trim · · · · · · · · · · Check & Set.

If Nav lights are on, this will be dim. Annunciator (Alternator & Oil) · · · · · ON. **External Lights / Pitot Tube:**

- Turn on / Check Visually / Intact
- Check Pitot Tube Warms up.
- Check for Stall Warning Horn & Free of motion.

Electrical Switches · · · · · · · · Off. All Tie/ Cowl & Pitot Cover · · Removed. Right Flaps · · · · · · · · Checked. Actuating arm & bonding strap - free of motion.

Actuating arm - free of motion.

Right Wing Tip/ Bulb/surface. Checked. Next to the Oil Breather. Right / Left Windows · · · · · Cleaned. Right/Left Engine Cowl Latches - Locked. any obstruction.

Left side small hole by cylender #2 · · · · · · · · · · Check for any debris.

Clock · · · · Local Time and Functional. Propeller · No damage & Screws Intact. Compass · · · · Check for any leak & Alternator Belt · · · · Check for Tention. Landing Light · · · · · Properly in-place. Left side Temp Probe Free & Attached. Lower Service GPS Antenna Endsure Right Wing Tip/ Bulb/surface. Checked. Left Aleron Checked. Battery Vents Free from Obstruction. Left Flaps · · · · · · · · · Checked. Baggage Door · · · · · · · · Closed.

In. Top Antenna – GPS, COM1, COM2, ELT.

of motion, Tail Cone bolt in place

Rudder · Slight Free of motion (No push) water. Fuel should be blue.

Oil Quantity · · · · Check for 6 – 8 qt. Oil Dip Stick · · · black rubber casecade.

EXTERNAL UNDERNEATH CHECK:

Fuel Vent · · · Clear of any Obstruction. Gear Assembly.

- Tire Inflated. Nose 27 | Main 30PSI
- Tire thread good.
- Oleo Strut Should be 2.75" ±0.25" (3 finger space).
- Nose Struct 2.50" ±0.25"
- Brake Calibour no red fluid leak.
- Gear door properly attached to the aircraft.
- Down Lock Switch making contact **ENGINE START HOT:** with down lock hook. No bent.
- Up Limit switch should be stright & No bent.

Right Aleron · · · · · · · · Checked. ➤ Under Left Wing – Oil Breaher · · · Check for any debris.

- Tube to vent fuel from engine driven fuel pump when excessive pressure.
- Tube to vent fuel from electric boot pump.
- Vent from intake system of the aircraft – Over prime situation, eninge properly not shutdown, fuel will leak through sniffer valve out through this valve.

not thick coding of oil.

PRE START:

LEFT & Right Stabilator · · · · Intact, free Passengers · · · · · · · · · · · · Briefed. Seats Belts · · · · · · · · · Fastened. Loose Objects · · · · · · · · Secured. Fuel Selector · · · · · · · Lowest Tank. Doors · · · · · · · · · · · · · Secured. Brakes · · · · · · Set.

> Note: Cranking period – 10 sec. with 20 sec. rest between attempts. Max attempts 6. If no start, cool for 30 minutes.

STARTING ENGLINE – COLD:

Prop Area · · · · · · · · · · · · · Clear. Manifold · · · · · · · ½ Inch Open. Propeller · · · · · · · · · · Full Fine. Battery Master / Fuel Pump · · · · · ON. Mixture Prime (Mixture full rich for 3

seconds) then ICO.

Mags · · · · · · · · Engage Starting. When engine engages - Mixture full rich.

ķ	Prop Area														
	Manifold	٠	٠	٠	٠	٠	٠			٠	٠		1/2	In	ch.
	Propeller														

Mixure · · · · · · · · Idle Cut-Off.
Battery Master / Fuel Pump · · · · ON.
Mags · · · · · · Engage Starting.
When Engine Start · Mixture Full Rich.

ENGINE START – FLOODED:

	Prop Area · · · · · · · · Clear.
	Manifold · · · · · · · Open Full.
	Battery Master / Fuel Pump · · · · ON.
	Fuel Pump · · · · · · · · Off.
	Mixture · · · · · · · · Idle cut-off.
	Mags · · · · · Engage Starting.
9	Mixture · · · · · · Mixture Full Advance.
	Manifold · · · · · · · · · Retard.
	Mixture · · · · Lean.

AFTER START:

Oil Pressure · · Green (in 30 Sec). If not Green stop the engine and trouble shoot. Warm-up · · · · · · · · 1400 -1500 rpm. (Avoid prolonged idling at low rpm). Ammeter · · · · · · · · Check Charging. Fuel Pump · · · · · · · · · · · · · · · · Off. Start Up Time · · · · · · · Noted. Avionics Master · · · · · · · · · · · · · · ON. Beacon / Nav Light (same switch) · ON. Transponder · · · · · · · · Standby. Radio / Instruments / Nav Aids · · · Set. Ensure Oil Temp in Green before Taxi. Rolling Break Test · · · · · · · Checked. Instruments · · · · · · · · Taxi Test. ATIS Obtain.

RUN UP:

Area · · · · · · · · · · Clear / Into Wind.
Aircraft · · · · · · · · Wheel Straight
Brakes · · · · · · · ON.
Fuel Selector · · · · · · Switch.
Throttle · · · · · · · · · 1000 rpm.
Temp / Pressure · · · · · · · Check.
Mixture · · · · · · · · · · · · · · · · · · Rich.

Taxi Clearance for run-up · · · · · Obtain.

3	Trim · · · · · Set.	Temps/Pressure · · · · · · · Check
Propeller · · · · · · · · Full Fine.	Flaps · · · · · · · · · · · As Required.	Mixture · · · · · · Lean
Throttle · · · · · · · · · 2000 rpm.	Controls · · · · · · · · · · · · Free.	Switch Fuel Selector every 30 minutes:
Temps / Pressures · · · · · · · Check.	Door · · · · · Latched (top and bottom).	$ ightharpoons$ Fuel Pump On $ ightharpoons$ Switch Tank \cdot
Mags · · · · · · · Check (<i>Max 172/50 Diff</i>).	Take-off Pilot Briefing · · · · · Complete.	Engine Running → Fuel Pump Off.
Mixture Bring down until manifold	Take off Time · · · · · · · · · · Noted.	Flight Instruments · · · · · · Check
drops, then go back where it was before.	Call TIMP. 120 1 Fautales off Clauses	Check Cylinders:
		CHT · · · · · In Green (Under 350°F).
Propeller Cycle: Do not go lower than 1500 rpm	TAKE OFF: (Max Weight Take off – 2750 lbs).	EGT · · In Green (1200°F to 1650°F
1 st time – Increase in Manifold pressure 8	Windsock · · Check Direction (left/right).	Outside Air Temp . Check For Icying
dropping rpm.	Heading Indicator · · · Confirm Runway.	
2 nd time – Oil pressure – should be a drop. 3 rd time – Look outside of the windsheild – no	Manifold Pressure · · · · · · · Full.	PRE-LANDING:
sign of oil sprayed.	Accelerate \rightarrow 65-75 KIAS \rightarrow Airspeed	Weather/ATIS · · · · · · Obtained.
Alternate Air · · · · · · Check - Closed.	Positive \rightarrow GO/NO GO \rightarrow If GO \rightarrow Rotate.	Altimeter · · · · · · · Set
Alternator · · Check Charging by on/off.	Pitch · · · 76 (Vy – Gear Down & Flaps Up.	Temps / Pressure · · · · · · · · · Green.
Throttle · · · · · · · · · · · · · · · · · · ·	When Altitude Positive Rate:	Seat Belt · · · · · · · · Fasten
Throttle · · · · · · · · · 1000 rpm.	Tap on the brakes to stop the wheel	Passenger Briefing · · · · · · Complete
Call GRN:118.4 For Taxi Clearance	spinning. & Gear Up.	Call TWR 120.1: e.g. at Port Perry
can driv. 116.4161 Taxi cicarance	Manifold · · · · · · · 25 Inch.	
CRUSING – Ref POH 5-19	Propeller · · · · · · · · 2500 rpm.	DOWN WIND:
Press Std 55% Power 65% Power 75%	Temps/Pressure Green.	Manifold Pressure · · · · · 20 – 22 Inch.
Alt Temp RPM RPM	Landing/Strobe Light Off.	Propeller · · · · · · · · · · · · 2400 rpm.
Feet C ⁰ 2200 2500 2200 2500 2500 S.L 15 23.7 21.7 26.1 24.1 26.3	Once reached 87KIAS: Hit: IAS, Nav, AP	Mixture · · · · · · · · · · · · Rich
1000 13 23.4 21.4 25.8 23.7 26.0		Gear · · · · Down ≤ 130 KIAS & 3 Green.
2000 11 23.0 21.1 25.4 23.4 25.6	CLIMB: (APT: Attitude, Power, Trim)	E Ensure Panel Lights off for Gear Indication
3000 9 22.6 20.8 25.1 23.1 25.3	Fuel Pump · · · · · · · · · · · · · · On.	Flaps · · · · · 10° - Air speed ≤108 KIAS
4000 7 22.3 20.5 24.7 22.8 24.9 5000 5 21.9 20.2 24.3 22.4 24.6	Temps/Pressure · · · · · · · Check.	Trim · · · · · · · Set
6000 3 21.6 19.9 24.0 22.1 24.3	Vy – Best Rate of Claim.	Brakes · · · · · · · Check/Feet Clear.
7000 1 21.2 19.6 23.6 21.8 F.T	Gear up, Flaps up · · · · · 87 KIAS.	Mags · · · · · · · · · · · · · · · · Both
8000 -1 20.8 19.3 F.T 21.5 9000 -3 20.5 19.0 21.1	Gerar Down / Flaps up · · · 76 KIAS.	Master, Fuel Pump, Landing Light · Ol
10k -5 F.T 18.7 F.T	Vx – Best Angle of Claim.	Fuel Selector · · · · · Fullest Tank
	Gear Up, Flaps Up · · · · · 77 KIAS.	
BEFORE TAKE-OFF:	Gear Down / Flaps up · · · · 70 KIAS.	Seats Belt · · · · · · · Fastened
TOGO -> HDG:Runway -> Set Altitude ->		
Desired -> IAS:76KT	213 40 413 114 114 114 114 114 114 114 114 114	BASE:
Master, Fuel Pump, Landing, Strobe Light	DECENT (Power Attitude, Trim)	Manifold Pressure · · · · · · 15 Inch
Pitot Heat (as Required) · · · · ON.	Fuel Pump · · · · · · · · · · · · ON.	
Transponder · · · · · · · · · · · Alt.	Throttle · · · · · · · · · Reduce.	Gear · · · · Check for Down & 3 Green
Instruments / Radio · · · · · · · Set.	Yoke · · Push Down / Adjust as required.	

CRUISE:

NAV, AP, FD, IAS

Normal max power - 75% Set (24"/2400).

Mixture · · · · · · · · · · · · · Rich.

Propeller · · · · · · · · · · · Fine.

Temps/Pressure · · · · · · · Check.	GUMPSS CHECKS:
Mixture · · · · · · Lean.	Gas (Fuel) · · Switch to Fullest Tank
Switch Fuel Selector every 30 minutes:	(Fuel Pump is already ON).
ightharpoonup Fuel Pump On $ ightharpoonup$ Switch Tank $ ightharpoonup$	
Engine Running → Fuel Pump Off.	Mixture · · · · · · · · · Full Rich.
Flight Instruments · · · · · · · · Check.	Propeller · · · · · · · · · · · Full Fine.
Check Cylinders:	Switches (Landing Light) -As required.
CHT · · · · · In Green (Under 350°F).	WindSock - Wind from Left or Right.
EGT · · In Green (1200°F to 1650°F)	Landing Clearance · · · · · · · · Yes.
Outside Air Temp . Check For Icying.	Overshoot (PAT: Power, Attitude, Trim)
o accorded that it compare on contract to the same	Props · · · · · Fine.
PRE-LANDING:	Mixture · · · · · · · · · · · · · Rich.
Weather/ATIS · · · · · · · · Obtained.	Throttle · · · · · · · · · · · · Full.
Altimeter · · · · · · · · · · Set.	Positive Climb. Flaps up in states.
Temps / Pressure · · · · · · · · Green.	in states.
Seat Belt · · · · · · · · · Fasten.	Missed Approach
Passenger Briefing · · · · · Complete.	Set · · · · · Missed Approach Altitude
Call TWR 120.1: e.g. at Port Perry	Hit · · · · · · · · · · · · · · · · · TOGO
cuil TWK 120.1. e.g. at Fort Ferry	Set · · · · · · · · · · · Full Power.
DOWN WIND:	Flaps · · · · · · · · · · · · · · · · · · ·
DOWN WIND: Manifold Pressure · · · · · 20 – 22 Inch.	
	Hit · · · · Nav.
Duamallan 2400 mana	
Propeller · · · · · · · · · · 2400 rpm.	AFTER LANDING
Mixture · · · · · · · Rich.	AFTER LANDING:
Mixture Rich. Gear · · · · Down ≤ 130 KIAS & 3 Green.	Throttle · · · · · · · 1000 RPM.
Mixture Rich. Gear · · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication.	Throttle 1000 RPM. Propeller Full Fine.
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 100 - Air speed ≤108 KIAS.	Throttle
Mixture Rich. Gear · · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps · · · · 10 ⁰ - Air speed ≤108 KIAS. Trim · · · · · · · · · · · · · · · · Set.	Throttle
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 100 - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear.	Throttle
Mixture Rich. Gear · · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps · · · · 10 ⁰ - Air speed ≤108 KIAS. Trim · · · · · · · · · Set. Brakes · · · · · Check/Feet Clear. Mags · · · · · Both.	Throttle
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 100 - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully.
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 100 - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted.
Mixture Rich. Gear · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps · · · 10° - Air speed ≤108 KIAS. Trim · · · · · Set. Brakes · · · · Check/Feet Clear. Mags · · · Both. Master, Fuel Pump, Landing Light · ON. Fuel Selector · · · Fullest Tank. Temps/Pressures · · · · Green.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed.
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 100 - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed.
Mixture Rich. Gear · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps · · · 10° - Air speed ≤108 KIAS. Trim · · · · · Set. Brakes · · · · Check/Feet Clear. Mags · · · Both. Master, Fuel Pump, Landing Light · ON. Fuel Selector · · · Fullest Tank. Temps/Pressures · · · · Green.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar.
Mixture Rich. Gear · · · Down ≤ 130 KIAS & 3 Green. Ensure Panel Lights off for Gear Indication. Flaps 10° - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank. Temps/Pressures Green. Seats Belt Fastened.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar.
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 10° - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank. Temps/Pressures Green. Seats Belt Fastened. Air – AC Off.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN:
Mixture	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN: Flaps Check for Retracted.
Mixture Rich. Gear · · · Down ≤ 130 KIAS & 3 Green. Ensure Panel Lights off for Gear Indication. Flaps 10° - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank. Temps/Pressures Green. Seats Belt Fastened. Air – AC Off. BASE: Manifold Pressure 15 Inch.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN: Flaps Check for Retracted. Fuel Pump / Lights / Air - AC Off.
Mixture Rich. Gear · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps · 100 - Air speed ≤108 KIAS. Trim · Set. Brakes · Check/Feet Clear. Mags · Both. Master, Fuel Pump, Landing Light · ON. Fuel Selector · Fullest Tank. Temps/Pressures · Green. Seats Belt · Fastened. Air – AC · Off. BASE: Manifold Pressure · 15 Inch. Flaps · 200 - speed ≤108 KIAS.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN: Flaps Check for Retracted. Fuel Pump / Lights / Air - AC Off. Avionics Master Off.
Mixture Rich. Gear · · · Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps · 100 - Air speed ≤108 KIAS. Trim · Set. Brakes · Check/Feet Clear. Mags · Both. Master, Fuel Pump, Landing Light · ON. Fuel Selector · Fullest Tank. Temps/Pressures · Green. Seats Belt · Fastened. Air – AC · Off. BASE: Manifold Pressure · 15 Inch. Flaps · 200 - speed ≤108 KIAS.	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN: Flaps Check for Retracted. Fuel Pump / Lights / Air - AC Off. Avionics Master Off. Throttle Idle.
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. Ensure Panel Lights off for Gear Indication. Flaps 100 - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank. Temps/Pressures Green. Seats Belt Fastened. Air – AC Off. BASE: Manifold Pressure 15 Inch. Flaps 200 - speed ≤108 KIAS. Gear Check for Down & 3 Green. ON FINAL: Max Landing – 2750 lbs	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN: Flaps Check for Retracted. Fuel Pump / Lights / Air - AC Off. Avionics Master Off. Throttle Idle. Ignition Live Mag Check. Throttle 1000 rpm.
Mixture Rich. Gear Down ≤ 130 KIAS & 3 Green. E Ensure Panel Lights off for Gear Indication. Flaps 10° - Air speed ≤108 KIAS. Trim Set. Brakes Check/Feet Clear. Mags Both. Master, Fuel Pump, Landing Light ON. Fuel Selector Fullest Tank. Temps/Pressures Green. Seats Belt Fastened. Air – AC Off. BASE: Manifold Pressure 15 Inch. Flaps 20° - speed ≤108 KIAS. Gear Check for Down & 3 Green. ON FINAL: Max Landing – 2750 lbs	Throttle 1000 RPM. Propeller Full Fine. Mixture Lean. Fuel Pump Off. Transponder Standby. Lights (Taxi Light) As Required. Flaps Retracted fully. Landing Time Noted. Flight Plan Closed. Call GRN 118.4: Taxi to T2 Hangar. SHUTDOWN: Flaps Check for Retracted. Fuel Pump / Lights / Air - AC Off. Avionics Master Off. Throttle Idle. Ignition Live Mag Check. Throttle 1000 rpm. Mixture ICO.

EMERGENCY PROCEDIRES:	If power is not restored prepare for	Engine Fire:	Prop Control · · · · Full DECREASE rpm,
ENGINE FIRE DURING START:		Fuel Selector · · · · · · · · · · · · Off.	then set if any control avilable.
Mags · · · · · · · · · Crank Engine.		Throttle · · · · · · · · · · Closed.	Airspeed · · · · · · · · · · · · · REDUCE.
Mixture · · · · · · · · · Idle cut off.		Mixture · · · · · · · Idle cut-off.	Throttle · · as required to remain below
Throttle · · · · · · · · · · · Open.	POWER OFF LANDING (Engine Failed):	Fuel Pump · · · · · · · · · · · Off.	2700 rpm.
Fuel Selector · · · · · · · · · · · · Off.	Trim · · · · · · · · · · Set to 79 KIAS.	Heater / Air - AC · · · · · · · Off.	
Abandon if fire continues.	Locate Suitable Field.	Proced with power off landing.	EMERGENCY LANDING GEAR EXT'N.
	Establish Spiral pattern.		Prior to emergency extension procedure:
Engine Power Loss during Take Off:	1000 ft. above field at downwind.	Loss of oil Pressure:	Master (Batt & Alt) Switch · · · · ON.
If sufficient runway remains for a normal	position for normal landing approach.	Land as soon as possible and investigtate	Circuit Breaker · · · · · · · Check.
landing, leave gear down and land stright	When field can easily be reached slow to		Panel Lights · · · · · · OFF (in daytime).
head.	72 KIAS for shortest landing.	Prepare for POWER OFF landing.	Gear Indicator bulbs · · · · · Check.
If area ahead is rough, or if it is necessary	GEAR DOWN EMERGENCY LANDING		If landing gear does not check down and
to clear the obstructions:	Touchdowns should normally be made at	Loss of Fuel Pressure:	lock:
Gear Selector Switch · · · · · · · · Up.	lowest possible airspeed with full flaps.	Fuel Pump · · · · · · · · · · · · · · · · · ON.	Airespeed · · · · Reduce below 87 KIAS
Emergency Gear Lever (aircraft equipped		Fuel Selector · · · · · Check on full tank.	
with backup gear extender) - Locked in	Landing Gear · · · · · Down.		DOWN position.
OVERRIDE ENGAGED Position.	Throttle · · · · · · · · Close.	High Oil Temperature:	If Gear has failed to lock down, move
If sufficient altitude has been gained to	Mixture · · · · · · · · · Idle cut-off	Land at nearest airport and investigate	and hold the emergency lever down to
attempt to restart:	Mags · · · · · · · Off.	the problem.	the EMERGENCY DOWN position.
Ma safe airspeed.	Master Switch · · · · · · · · Off.	Prepare for POWER OFF landing.	
Fuel Selector · · · Switch to fullest tank.	Fuel Selector · · · · · · · · · Off.		If Gear has failed to lock down, move
Fuel Pump · · · · · · · · · · · · · · · · · ON.	Seat Belt · · · · · · · · Fastened.	Alternator Failure:	and hold the emergency lever down to
Mixture · · · · · · · · Check Rich.		Verify Failure:	the EMERGENCY DOWN position.If the
Alternator Air · · · · · · · · · · OPEN.	GEAR UP EMERGENCY LANDING :	Reduce electricial load as much as	nose Gear will not lock down using
Emergency Gear Level · · · As Required.	In the event a gear up landing is	possible.	above procedure, slow the aircraft to the
If power is not regained, proceed with	required, proceed as follows:	Alternator circuit breakers · · · CHECK.	lowest safe speed attainble using the
<mark>power off landing.</mark>	Flaps · · · · · · · · · · · · as desired.		lowest power setting required for safe
	Throttle · · · · · · · · · Idle cut-off.	Alt Switch · · · OFF for 1 second the ON.	operation and accomplish the following:
Engine Power Loss in Flight:	Mixture · · · · · · · Off.		Landing gear does not check down,
Fuel Pump · · · · · · · · · · · · · · · · · · ·	Mags · · · · · · · Off.	All Switch · · · · · · · · Off.	recycle Gear through up position, and
Fuel Selector · · · Switch to fullest tank.	Fuel Selector · · · · · · · · · Off.	Reduce electrical load as soon as	then select gear DOWN
Mixture · · · · · · · · Check Rich.	Seat Belt · · · · · · · · Fastened.	<mark>practical.</mark>	
Alternate Air · · · · · · · · · · · Open.	Contact surface at minimum possible	If the battery is fully discharged, the gear	SPIN RECOVERY
Engage Gauges · Check for Indication of	airspeed.	_	Rudder · · · · · full opposite direction of
cause of power loss.	FIRE IN FLIGHT:	emerency gear extension procedure.	
If no fuel pressure is indicated, check	Source of fire · · · · · · · · · Check.	Position lights will not illuminate.	Control Wheel · · · · · · · full Forward
tank selector position to be sure it is on	Electricial Fire (Smoke in Cabin):		while neutralizing ailerons.
the fullest tank.	Master · · · · · · · · · · · · · · · · Off.	PROPELLER OVERSPEED:	Throttle · · · · · · · · · · · · idle.
When power is restored:	•		Rudder · Neutral (while rotation stops)
Alternate Air · · · · · · · · · · · Closed.		Oil Pressure · · · · · · · · · · Check.	Control Wheel · · · · · · as required to
Fuel Pump · · · · · · · · Off.	Land as soon as practicable.		smoothly regain level flight attitude.

Speed	KIAS	Power Plant:		Aviate, Navigate and Communicate	In the event of
Stall with Gear & Flaps – Vso	53	Tachometer			during the tak
Stall Clean – Vsi	66	Green Arc. (Normal Operating Range)	500 -	Aviate:	straight ahead
Rotation Speed- Vr	65 – 75		2700	Temp / pressure / Fuel Check	_ ≥ If airborne, we
•		-	RPM	·Nav Aid / Radio · · · · · · · Check	79kt, and land
Best Rate of Climb		Red Line (Max Continous Power)	2700	·Attitude, Altitude, VSI, Heading	💙 If an engine fo
Gear Up & Flap Up – <mark>Vy</mark>	87		RPM	Airspeed · · · · · · Cross Check	1000 feet AGL
Gear Down & Flap Up – <mark>Vy</mark>	76	RPM Restrictions (McCauley Pr		•	returning to th
		Only) – Aviod Continues Opera		Navigate:	Once made to
Best Angle of Climb		Between 1500 and 1950 RPM B	Below 15	Time Note the time of station or fix	required.
Gear Up & Flap Up – <mark>Vx</mark>	77	Inches Map.		·Turn · · · · · · · your new heading	Unlatch Cabin
Gear Down & Flap Up – <mark>Vx</mark>	70	Oil Temperature	7F°F	·Twist · · · · · Reset Course Indicator	Mixure cut, fu
Ada Charland Charles W		Green Arc (Normal Operating Range)	75°F - 245°F	·Throttle · · · · · · · · · as required	master off.
Max Structural Crusing – VA	121	Pad Lina (Mavimum)	245 F 245°F		→ Are you good
@2750 lbs	121	Red Line (Maximum) Oil Pressure	243 F	·Talk · · · · Make your report to ATC	
@1863 lbs	96	Green Arc (Normal Operating Range)	60 – 90	Communicate:	Pre-Takeoff Pa
Landing Final Approach Flaps 40° – Reference	74	GIEEN AIC (Normal Operating Range)	psi	·ATIS · · · · · · · · · Get lastest info	✓ We are ready
Landing Speed) V _{REF}		Yellow Arc (Caution Range)(Idle)	25 – 60	·Altimeter · · · · · · · Cross Check	Stow any loos
When gusting, add ½ of gust		Tenow Are (Caution Range)(idie)	psi	·ATC · · · · · · · · · · · · Interaction	Say free of my
factor to approach speed.		Red Line (Minimum)	25psi		* Keep your sea
Best Glide – V _{LD}	79	Red Line (Maximum)	100psi	Position · · · · · · · · · · · Report	Refrain from t
		Fuel Pressure	= 0 0 p 0 1	· Emergency · · · · · · Communication	emergency.
Red Radial Line (Never	190	Green Arc. (Normal Operating Range)	14 -	Do & Don't	→ Are you good:
Exceed) – V _{NE}			45psi	✓ Warm-up the engine at 1400 to 1500	
Max Landing Gear Ext – V _{LE}	≤130	Red Line (Minimum)	14psi	RPM. Avoid prolonged idling at low	Request Taxi to
Max Landing Gear Retract –		Red Line (Maximum)	45psi	RPM, as this practice may result in	After initial call
<mark>V_{Lo}</mark>	≤109			fouled spark plugs.	Shawa Groui
Gear Extension / Retraction	7 Sec	Radio			→ Piper Arrow
Time		ATIS	125.67	Passenger Safety Briefing:	Golf, Victor, B
Max Flap Extend – V _{FE}	≤108	Ground	118.40	S. Seat Adjust. Seatbelt latch/unlatch,	Over Tango 2Requesting Ta
Limitations		Tower	120.10	Doors/windows latch & Unlatch.	* Requesting Tu
Limitations: Maximum Crosswind	17140	PA-1	122.90	A. Air vent, Action in case of any	ITDAID F
Yellow Arc (Caution Range –	17kts 149-	Emergency		passenger emergency.	ITPAID - Enrout
Smooth Air only)	190	905-576-2398	Tower	F. Fire Extinguisher.	"{some Place}
Green Arc (Normal Operating	58-108	Emgerency Communication Failure	7700 7600	E. Exit door, Emergency evacuation	Piper Arrow, C
Range	30-100	Hijacking	7500 7500	plan, First Aid Kit & ELT.	Victor, Over {s
White Arc (Flap Down)	53-108	Toronto Area Control Center	133.40	T. Look out traffic for me.	<pre>at {} feet enroute for {so</pre>
Winte And (Flap Bown)	33 100	London Flight Center	123.15	Y. Any question?	
		zondon i ngili denter	120.13		ITPAID – Reque
		STARTING WITH EXT POWER S	OURCE	Pre-Takeoff Pilot Briefing:	{some Control
		Master Switch · · · · · · · · · · · · · · · · · · ·		→ Frequencies set	Piper Arrow
		All Electrical equipment		■ Weather conditions / Winds	✓ Golf, Victor, Bi ✓ Over {some plane
		• •		■ > Runway	→ at {} feet
		Terminals · · · · · · · · · · · · · · · · · · ·		→ Flap settings°	request VFR tr
		External Power plug · Insert in	n fuselage	→ Speeds: Rotate 65-75KIAS & Pitch for	airspace to {so
		Proceed with normal Start:		76KIAS, after positive Rate - 87 KIAS	maintaining {
		Throttle · · · · · · lowest possible RPM		Departure routes / Navaids Set	i i i i i i i i i i i i i i i i i i i
				✓ Initial Altitudes feet	Memory Aids
		External Power Plug · · discon	nect	→ Our Go-No Go point will be interesting of the second seco	
		from Fuselage		intersection of the runway.	ITPAID – Identifi
		Master Switch · · ON - Check A	mmeter		Place, Altitude, I

- Aviate, Navigate and Communicate In the event of an engine failure akeoff roll we will stop
 - we will pitch for the nd straight ahead.
 - failure occurs above 3L we will consider the airport.
 - to the field, set flaps as
 - in door.
 - fuel off, mags off &
 - d to go?

assenger Briefing:

- ly for takeoff.
- ose objects
- ny controls
- eat belt on.
- talking unless it is an
- d to go?

to Main Apron

l establised with GRN.

- und
- Bravo, Victor,
- Taxi to Main Apron.

ute Radio call

- e} Traffic"
- Golf, Victor, Bravo, {some place}
- et,
- {some place}

uest Transition

- ol, ie., Toronto Center}
- Bravo, Victor,
- place}
- transition through your {some place } { } feet

ification, Tail Number, Intention, Destination. POISEE - Problem, Option, Information, Select, Execute and Evaluate.
FLARE - Flaps, Lights, Auxiliary fuel pump, Radar transponder on, Engine mixture - example of after take-off checklist.

CIGAR – Controls, Instruments, Gas, Attitude (trim and flaps), Run-up – example of before take-off checks. CRAFT – Clearance, Routing, Altitude, Frequency, Transpon der **COWLS** – Civiliation, Obstacles, Wind, Length, Surface