Ground Checklists Preflight Fluids Brakes AS NEEDED Magnetos OFF Fuel quantity **CHECK VISUALLY** Fuel sumps DRAIN 5 on each wing, 3 on bottom. Inspect for contamination. Fuel filler caps **SECURE** Engine oil level **CHECK** Minimum 5 quarts **SECURE** Dipstick Cabin Pitot cover **REMOVE** POH **ACCESSIBLE** G1000 reference **ACCESSIBLE** Avionics (BUS 1 and BUS 2) OFF Master ON When the master switch is on, treat propeller as if magnetos are on. Do not stand in propeller arc. PFD **VERIFY ON** Fuel gauges **CHECK QUANTITY** LOW FUEL **VERIFY NOT SHOWN OIL PRESSURE VERIFY SHOWN** LOW VACUUM **VERIFY SHOWN** Avionics fans CHECK Avionics bus 1 ON, verify fan heard, bus 1 OFF. Avionics bus 2 ON, verify fan heard, bus 2 OFF. Liahts CHECK Flaps **FXTFND** Tach time RECORD Pitot heat ON

Verify warm within 30 seconds

Pitot heat

Master

LOW VOLTS

Elevator trim

Fuel selector

Alt static air

Control lock

Fire extinguisher

Empennage Autopilot static **VERIFY CLEAR** Rudder gust lock REMOVE Control surfaces **CHECK** Freedom of movement, security Trim tab **CHECK SECURE** Antennas CHECK CONDITION Right Flap CHECK SECURE, CONDITION CHECK FREE, SECURE Aileron Main wheel tire CHECK INFLATION Nose Cooling inlets **VERIFY CLEAR** Propeller **CHECK FOR NICKS** Spinner VERIFY SECURE Air filter CHECK CLEAR Nosewheel strut, tire CHECK Static source CHECK CLEAR Left Main wheel tire CHECK INFLATION Fuel vent **VERIFY CLEAR** Pitot tube **VERIFY CLEAR** Stall warning **TEST** Landing, taxi lights CHECK CLEAN CHECK FREE, SECURE Aileron Flap CHECK SECURE, CONDITION Final Weight and balance CHECKED Fliaht Circle DISPATCH Tach, Hobbs times RECORD **LOCK** Baggage door Chocks **REMOVE** Tie-downs REMOVE

Preflight (continued)

Securing	
Control lock	INSTALL
Tie-downs, chocks	APPLY
Vents, windows	CLOSE
Pitot cover	APPLY
Fuel selector	LEFT or RIGHT
Tach, Hobbs times	RECORD
Flight Circle	CHECK IN
Doors	LOCK

Operating Checklists Start Before Start Preflight inspection **COMPLETE** Passenger briefing **COMPLETE** Brakes TEST, SET Seats, belts, harnesses **SECURE** Circuit breakers **CHECK IN** OFF Electrical equipment Avionics (BUS 1 and BUS 2) OFF Beacon switch ON **BOTH** Fuel selector Fuel shutoff valve ON Engine Start (With Battery) Throttle OPEN 1/4 INCH Mixture **CUT-OFF** Standby battery **TEST** Hold TEST position 20 seconds, verify TEST light stays on Standby battery Verify PFD turns on **Engine instruments CHECK** Verify no red X on engine page **BUS E Volts** VERIFY ≥ 24V M BUS Volts VERIFY ≤ 1.5V BATT S Amps **VERIFY** negative STBY BATT Annunciator VERIFY SHOWN Master ON Prime IF ENGINE NOT WARM Fuel pump ON, mixture RICH until fuel flow stable (3-5 seconds), mixture CUT-OFF, fuel pump OFF Propeller area **CLEAR** Ignition switch **START** Release when engine starts Mixture ADVANCE when engine starts If engine flooded, mixture CUT-OFF, open throttle 1/2 to full, engage starter. When engine starts, mixture FULL, retard throttle promptly Oil pressure VERIFY GREEN WITHIN 60 **SECONDS** GROUND LEAN Mixture Before Taxi Amps (M BATT, BATT S) VERIFY POSITIVE LOW VOLTS **VERIFY NOT SHOWN** Annunciator **Avionics** ON Headset ON Navigation, strobe, taxi lights ON Flaps RETRACT **OBTAIN** Weather Altimeters (PFD, standby, autopilot) SET IF DESIRED

EFB Setup

Version 1 PR 46

OFF

OFF

BOTH

CHECK

REMOVE

OFF

TAKEOFF

VERIFY SHOWN

Emergency Checklists

Engine Failure During Roll	Takeoff
Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	CUT-OFF
Magnetos	OFF
Standby battery	OFF
Master (ALT and BAT)	OFF

Engine Failure Immediately After Takeoff

lakcon		
Airspeed		Flaps up: 70 KIAS
	Flaps	10°-FULL: 65 KIAS
Mixture		CUT-OFF
Fuel shutoff v	alve	OFF (pull full out)
Magnetos		OFF
Flaps	Α	S REQUIRED (FULL
		recommended)
Standby batte	ery	OFF
Master (ALT a	nd BA	AT) OFF
Door		UNLATCH
Land		STRAIGHT AHEAD

Engine Failure During Flight (Restart Procedures)

ruei snuton v	/aive	ON (push full in)
Fuel selector	valve	BOTH
Fuel pump		ON
Mixture	RICH	(if restart has not
		occurred)
Magnetos		BOTH
		l: START, advance
throttle slowly, lean mixture as		
required		
Fuel numn		OFF

If fuel flow drops to zero, turn fuel

Airspeed 68 KIAS (best glide speed)

Emergency Landing Without Engine Power

pump back on

Engine Power	
Seats, seatbelts	UPRIGHT, SECURE
Airspeed	Flaps up: 70 KIAS
Fla	ps 10°-FULL: 65 KIAS
Mixture	CUT-OFF
Fuel shutoff valve	e OFF (pull)
Magnetos	OFF
Flaps	AS REQUIRED (FULL
	recommended)
Standby battery	OFF
Master (ALT and	OFF (when landing
BAT)	is assured)
Doors	UNLATCH BEFORE
	TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary Landing With

Engine Pov	ver	
Seats, seath	elts	UPRIGHT, SECURE
Airspeed		65 KIAS
Flaps		20°
Selected fie	ld	FLY OVER, noting
		terrain and
		obstructions
Flaps	FULL	(on final approach)
Airspeed		65 KIAS
Standby bat	tery	OFF
Master (ALT	and	OFF (when landing
BAT)		assured)
Doors		UNLATCH BEFORE
		TOUCHDOWN
Touchdown		SLIGHTLY TAIL LOW
Mixture		CUT-OFF
Magnetos		OFF
Brakes		APPLY HEAVILY

Ditching

	Radio	MAYDAY	on 121.5 MHz (Give
			location, intentions)
	Transp	onder	SQUAWK 7700
	Heavy	objects (in	SECURE or
	bagga	ge area)	JETTISON (if
			possible)
	Seats,	seatbelts	UPRIGHT, SECURE
	Flaps		20°-FULL
	Power	3	00 FT/MIN DESCENT
			AT 55 KIAS
	If no p	ower avail	able, approach flaps
	up 70 KIAS or flaps 10° 65 KIAS		
		wind, hea	vy seas: LAND INTO
	WIND Light wind, heavy swells: LAND		
	PARAL	LEL TO SW	ELLS

	1711012	_ 10 5	LLU
	Doors Touchdown		UNLATCH
			LEVEL ATTITUDE at
			established rate of
			descent
	Face	CUSHION	I at touchdown with
			folded coat
	ELT		ACTIVATE
	Airplane	EVACUA ^T	TE THROUGH CABIN
			DOORS
	If neces	sary, ope	n window and flood
	cahin to	محناجيتهم د	nressure so doors

Life vests, raft	INFLATE WHEN CLEAR
	OF AIRPLANE

can be opened.

Fire During Start on Ground

M	agnetos switch			(continue start the engine)
f	engine starts:			_
	Power 1800 R	PM 1	for a fe	w minutes
	Engine		SH	HUTDOWN
f	engine fails to	star	t:	
	Throttle			FULL
	Mixture			CUT-OFF
	Magnetos swit	ch	START	(continue
				cranking)
	Fuel shutoff va	lve		OFF (pull)
	Fuel pump			OFF
	Magnetos			OFF
	Standby batte	ry		OFF
	Master (ALT ar	ıd B	AT)	OFF
	Engine			SECURE
	Parking brake			RELEASE
	Fire extinguish	er		OBTAIN
	Airplane		- 1	EVACUATE
	Fire	EX	TINGUI	SH via fire
	extinguis	sher	, wool b	lanket, or
				dirt
_			-	

Both cases: inspect and repair damage before conducting another

Engine Fire in Flight Mixture

Fuel shutoff valve	OFF (pull)	
Fuel pump	OFF	
Master (ALT and BAT)	OFF	
Cabin heat and air	OFF (except	
	overhead vents)	
Airspeed	100 KIAS	
If fire not extinguished, increase		
speed to find an airspeed, within		
airspeed limitations, which provides		
an incombustible m	ixture	
Forced landing	EXECUTE	
Refer to Emergency	Landing Without	

CUT-OFF

OFF

Engine Power checklist Electrical Fire in Flight Standby battery

Master (ALI and BAT)	OFF
Vents/cabin air/heat	CLOSE
Fire extinguisher	USE
Avionics (BUS 1 and BUS 2)	OFF
All switches (except magnetos) OFF
Vents/cabin air/heat	OPEN
When sure fire is com	pletely
extinguished	
If fire extinguished and electric	cal
power necessary to continue f	light:
Circuit breakers CHECK,	do not
	reset
Master (ALT and BAT)	ON
Standby battery	ON
Avionics (BUS 1)	ON
Avionics (BUS 2)	ON

Capin	rire	
Standb	y battery	OFF
Master	(ALT and BA	AT) OFF
Vents/c	abin air/	CLOSE (to avoid
heat		drafts
Fire ext	tinguisher	USE
Vents/c	abin air/hea	
	When sure	e fire is completely
	extinguish	ıed
Land	ASAP to i	nspect for damage

Emergency Checklists

Wing Fire

Landing, taxi lights	OF
Nav, strobe lights	OF
Pitot heat	OF
NOTE: Sideslip to keep flames as	way
from fuel tanks and cabin. Land	
ASAP using flaps only as require	d for
final approach and touchdown.	

Inadvertent Icing Encounter During Flight

Pitot heat		ON
Turn or change alti		an
OAT less conducive	e to icing.	
Cabin heat	FULL	. ON
Defrosters	0	PEN
Cabin air	ADJ	
Maximize defrost	er heat and air	low
Induction icing	MONI	ΓOR
Adjust throttle to I	hold RPM. Adjus	st
mixture as needed	d for any chang	e in
power settings		
Land	NEAREST AIRP	ORT
With an extremely	rapid ice build-	up,
select suitable off-	airport landing	site
With $\geq 1/4$ inch of	ice on the lead	ing
edges, prepare for	significantly	
higher stall speed		
Flaps	LEAVE RETRACT	TED
Open left window a	and scrape ice	

from windshield, if necessary for visibility
Forward slip if necessary for visibility
Approach speed 65-75 KIAS
Depending on level of accumulation
Landing Perform in level attitude
Avoid missed approaches if possible
Missed approaches should be
avoided whenever possible

Static Source Blockage (Erroneous Instrument Reading Suspected)

Alternate	static	PULL ON
Cabin hea	at/air	PULL ON
Vents		CLOSED
Airspeed	Consult	calibration table
	Section 5, F	igure 5-1 of POH

Excessive Fuel Vapor (Fuel Flow Stabilization Procedures)

If flow fluctuates ≥	1 GPH or power		
surges occur			
Fuel pump	ON		
Mixture	ADJUST		
as necessary for smooth operation			
Fuel selector valve	SELECT OTHER		
	TANK (if		
	symptoms		
	continue)		
Fuel pump	OFF (after fuel flow		
	stabilized)		

Landing With a Flat Main Tire

Approach			NORMA	L
Flaps			FUL	L
Touchdown	G00	D MAIN	TIRE FIRS	Γ
Keep	o flat ti	re in aiı	as long a	S
poss	sible wi	ith ailer	on control	
Directional c	ontrol	MAIN	ITAIN using	9
			ke on good	
		wheel	as required	t

Landing With a Flat Nose Tire

Approach Flaps	NORMA
Flaps	AS REQUIRE
Touchdown	ON MAIN:
Hold nosewheel off	ground as long a
possible, maintain fu	ull up elevator as
airplane slows to sto	р

HIGH VOLTS or M Bat Amps > 40

Master (ALT only)	OFF
Reduce Electrical Load checklist	RUN

LOW VOLTS Annunciator Comes On < 1000 RPM

Throttle	1000 RPM
Low voltage annunciator	VERIFY OFF
If annunciator remains or	n, run "LOW
VOLTS Annunciator On ≥	1000 RPM"
checklist, and have elect	rical system
inspected before next flig	ht

LOW VOLTS Annunciator On ≥ 1000 RPM

Master (ALT only)	OFF
ALT FIELD breaker	CHECK IN
Master (ALT and BAT)	ON
LOW VOLTS annunciator)	
M Bus volts VERIFY 27.5	5V minimum
	FY POSITIVE
If LOW VOLTS annunciato	r remains
on:	
Reduce Electrical Load	RUN

Reduce Electrical Load Avionics (BUS 1)

OFF

checklist

7 to 10 mes (BOO 1)	٠
Pitot heat	OFF
Beacon, taxi, nav, strobe lights	OFF
Landing light OFF (use as req'	d for
land	ding)
Cabin power 12V	OFF
Note: When M bus volts drops be	low
20V, the standby battery will sup	ply
power to the essential bus for at	
least 30 minutes	
COM1, NAV1	TUNE
COM1 MIC and NAV1 SE	LECT
If COM2 MIC and NAV2 are selec	ted
when avionics bus 2 is off, the ra	adios
cannot be tuned	
Avionics (BUS 2) OFF if clear of cl	ouds
The following items will not ope	rate:
autopilot, COM2, transponder, a	audio
panel, NAV2, MFD	

Land AS SOON AS PRACTICAL Make sure a successful landing is possible before extending flaps. Flap motor is a large electrical load.

Red X - PFD Airspeed Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1)
If open, reset circuit breaker. If circuit breaker opens again, do not reset
Standby airspeed
INSE for airspeed indicator information

Red X - PFD Altitude Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1)
If open, reset circuit breaker. If circuit breaker opens again, do not reset Standby altimeter CHECK current barometric pressure SET. USE for altitude information

Red X - PFD Attitude Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1)
If open, reset circuit breaker. If circuit breaker opens again, do not reset Standby attitude USE for attitude indicator information

Red X - Horizontal Situation Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker. If circuit breaker opens again, do not reset Magnetic compass USE for heading

PFD1 COOLING or MFD1 COOLING Annunciator(s)

Cabin heat REDUCE (minimum preferred)
Forward avionics CHECK (feel for fan airflow from screen on glareshield)
If forward avionics fan failed:
Standby battery OFF unless needed

If PFD1 COOLING or MFD1 COOLING annunciator does not go off within 3 minutes or if both annunciators come on:

for emergency

Standby battery OFF (land as soon as practical)

LOW VACUUM Annunciator Comes On

Vacuum indicator CHECK EIS ENGINE
page to make sure
vacuum pointer is
within green arc

If vacuum pointer not in green arc or gyro flag shows on standby attitude indicator, do not use standby attitude indicator

High Carbon Monoxide (CO) Level

Cabin heat OFF (push full in) Cabin air ON (pull full out) Cabin vents OPEN Windows OPEN (163 KIAS maximum windows open speed)

If high CO level remains:

Land AS SOON AS PRACTICAL