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 Dipstick SECURE Cabin Pitot cover **REMOVE** POH **ACCESSIBLE** G1000 reference **ACCESSIBLE** OFF Avionics (BUS 1 and BUS 2) 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. Lights CHECK Flaps **EXTEND** Tach time **RECORD** Pitot heat ON Verify warm within 30 seconds OFF Pitot heat **VERIFY SHOWN** LOW VOLTS Master OFF **TAKEOFF** Elevator trim Fuel selector BOTH OFF Alt static air Fire extinguisher **CHECK** Control lock **REMOVE**

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 Aileron CHECK FREE, SECURE 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 INFLATION Fuel vent VERIFY CLEAR Pitot tube VERIFY CLEAR Pitot tube VERIFY CLEAR Stall warning TEST Landing, taxi lights CHECK CLEAN Aileron CHECK FREE, SECURE Flap CHECK SECURE, CONDITION Final Weight and balance CHECKED Flight Circle DISPATCH Tach, Hobbs times RECORD Baggage door LOCK Chocks REMOVE Tie-downs	Preflight (cont	tinued)
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Tach, Hobbs times RECORD Baggage door LOCK Chocks REMOVE	Weight and bala	nce CHECKED
Baggage door LOCK Chocks REMOVE		
Chocks REMOVE	•	
Tie-downs REMOVE		-
	Tie-downs	REMOVE

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

Start	· ·
Before	Start
Preflight inspection	COMPLETE
Passenger briefing	COMPLETE
Brakes	TEST, SET
Seats, belts, harness	
Circuit breakers	CHECK IN
Electrical equipment	OFF
Avionics (BUS 1 and	
Beacon switch	ON
Fuel selector	BOTH
Fuel shutoff valve	ON
Engine Start (With Battery)
Throttle	OPEN 1/4 INCH
Mixture	CUT-OFF
Standby battery	TEST
	on 20 seconds, verify
TEST light stays of	
Standby battery	ARM
	Verify PFD turns on
Engine instruments	CHECK
Verify no r	ed X on engine page
BUS E Volts	VERIFY ≥ 24V
M BUS Volts	$VERIFY \leq 1.5V$
BATT S Amps	VERIFY negative
STBY BATT Annuncia	tor VERIFY SHOWN
Master	ON
Prime IF	ENGINE NOT WARM
Fuel pump ON, mix	ture RICH until fuel
flow stable (3-5 sec	conds), mixture CUT-
OFF, fuel pump OF	F
Propeller area	CLEAR
Ignition switch	START
Release	e when engine starts
Mixture ADVANCE	E when engine starts
If engine flooded, n	nixture CUT-OFF,
open throttle 1/2 to	full, engage starter.
When engine starts	, mixture FULL,
retard throttle prom	nptly
Oil pressureVERIFY O	GREEN WITHIN 60
Mixture	GROUND LEAN
Befor	
Amps (M BATT, BATT	
	VERIFY NOT SHOWN
	VERIFT NOT SHOWN
Annunciator Avionics	ON
Headset	ON
	ON ovi lights
Navigation, strobe, t	-
Flaps	RETRACT
Weather	OBTAIN
Altimeters (PFD, star	
EFB Setup	IF DESIRED

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Engine Failures

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

Engine Failure Immediately After Takeoff Flaps up: 70 KIAS Airspeed Flaps 10°-FULL: 65 KIAS CUT-OFF Mixture Fuel shutoff valve OFF (pull full out) Magnetos OFF FlapsAS REQUIRED (FULL recommended) OFF Standby battery Master (ALT and BAT) **OFF UNLATCH** Door

STRAIGHT AHEAD

Engine Failure During Flight (Restart Procedures)

Land

Airspeed 68 KIAS (best glide speed) Fuel shutoff valve ON (push full in) Fuel selector valve BOTH Fuel pump ON MixtureRICH (if restart has not occurred) Magnetos BOTH If propeller stopped: START, advance throttle slowly, lean mixture as required Fuel pump OFF If fuel flow drops to zero, turn fuel pump back on

Instrument Failures, High CO Level

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 USE 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 altimeterCHECK 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 USE for heading compass information

PFD1 COOLING or MFD1 COOLING Annunciator(s)

Cabin heatREDUCE (minimum preferred)

Forward avionics CHECK (feel for airflow from screen on glareshield)

If forward avionics fan failed:

Standby batteryOFF unless needed for

emergency power

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

Standby batteryOFF (land as soon as practical)

LOW VACUUM Annunciator Comes On

Vacuum indicatorCHECK 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

WindowsOPEN (163 KIAS maximum windows open speed)

If high CO level remains:

Land AS SOON AS PRACTICAL

Electrical Malfunctions

HIGH VOLTS or M Bat Amps >	40
Master (ALT only)	OFF
Avionics (BUS 1)	OFF
Pitot heat	OFF
Beacon, taxi, nav, strobe lights	OFF
Landing lightOFF (use as reg'd fo	r

Cabin power 12V OFF Note: When M bus volts drops below 20V, the standby battery will supply power to the essential bus for at least 30 minutes

landing)

COM1, NAV1 TUNE
COM1 MIC and NAV1 SELECT
If COM2 MIC and NAV2 are selected
when avionics bus 2 is off, the radios
cannot be tuned

Avionics (BUS 2)OFF if clear of clouds

The following items will not operate: autopilot, COM2, transponder, 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.

LOW VOLTS Annunciator Comes On < 1000 RPM

Throttle 1000 RPM Low voltage annunciator VERIFY OFF If annunciator remains on, run "LOW VOLTS Annunciator On ≥ 1000 RPM" checklist, and have electrical system inspected before next flight

LOW VOLTS Annunciator On ≥ 1000 RPM

Master (ALT only) OFF
ALT FIELD breaker CHECK IN
Master (ALT and BAT) ON
LOW VOLTS annunciator) VERIFY OFF
M Bus volts VERIFY 27.5V minimum
M Bat amps VERIFY POSITIVE
If LOW VOLTS annunciator remains
on:

Avionics (BUS 1) OFF
Pitot heat OFF
Beacon, taxi, nav, strobe lights OFF
Landing lightOFF (use as req'd for landing)

Cabin power 12V OFF Note: When M bus volts drops

Note: When M bus volts drops below 20V, the standby battery will supply power to the essential bus for at least 30 minutes

COM1, NAV1 TUNE
COM1 MIC and NAV1 SELECT
If COM2 MIC and NAV2 are selected
when avionics bus 2 is off, the radios
cannot be tuned

Avionics (BUS 2)OFF if clear of clouds

The following items will not operate: autopilot, COM2, transponder, 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.

Forced Landings

Emergency Landing Without Engine Power

Seats, seatbelts UPRIGHT, SECURE Airspeed Flaps up: 70 KIAS Flaps 10°-FULL: 65 KIAS **CUT-OFF** Mixture OFF (pull) Fuel shutoff valve Magnetos OFF FlapsAS REOUIRED (FULL recommended) OFF Standby battery OFF (when Master (ALT and

Master (ALT and OFF (when BAT) landing is assured)

DoorsUNLATCH BEFORE TOUCHDOWN

Touchdown SLIGHTLY TAIL LOW Brakes APPLY HEAVILY

Precautionary Landing With Engine Power

Seats, seatbelts UPRIGHT, SECURE
Airspeed 65 KIAS
Flaps 20°
Selected fieldFLY OVER, noting

terrain and obstructions

Flaps FULL (on final approach)
Airspeed 65 KIAS
Standby battery OFF
Master (ALT and OFF (when
BAT) landing assured)

DoorsUNLATCH BEFORE TOUCHDOWN

Touchdown SLIGHTLY TAIL LOW
Mixture CUT-OFF
Magnetos OFF
Brakes APPLY HEAVILY

Ditching

Radio MAYDAY on 121.5 MHz (Give location, intentions)

Transponder SQUAWK 7700

Heavy objects (in SECURE or

baggage area) JETTISON (if possible)

Seats, seatbelts UPRIGHT, SECURE Flaps 20°-FULL

Power 300 FT/MIN DESCENT AT 55 KIAS

If no power available, approach flaps up 70 KIAS or flaps 10° 65 KIAS Strong wind, heavy seas: LAND INTO WIND

Light wind, heavy swells: LAND PARALLEL TO SWELLS

Doors UNLATCH

TouchdownLEVEL ATTITUDE at established rate of descent

FaceCUSHION at touchdown with folded coat

ELT ACTIVATE
AirplaneEVACUATE THROUGH CABIN
DOORS

If necessary, open window and flood cabin to equalize pressure so doors can be opened.

Life vests, raftINFLATE WHEN CLEAR OF AIRPLANE

Fires

Fire During Start on Ground

Magnetos switchSTART (continue cranking to start the engine)

If engine starts:

Power 1800 RPM for a few minutes Engine **SHUTDOWN**

If engine fails to start: Throttle **FULL** Mixture **CUT-OFF** START (continue Magnetos switch cranking) Fuel shutoff valve OFF (pull) Fuel pump OFF Magnetos **OFF** Standby battery OFF Master (ALT and BAT) **OFF** Engine **SECURE RELEASE** Parking brake Fire extinguisher **OBTAIN Airplane EVACUATE** FireEXTINGUISH via fire

extinguisher, wool blanket, or Both cases: inspect and repair

damage before conducting another flight.

Engine Fire in Flight

Engine Power checklist

Mixture	CUT-OFF	
Fuel shutoff valve	OFF (pull)	
Fuel pump	OFF	
Master (ALT and BAT)	OFF	
Cabin heat and airOF	F (except erhead vents)	
Airspeed	100 KIAS	
If fire not extinguished, increase speed to find an airspeed, within airspeed limitations, which provides an incombustible mixture		
Forced landing Refer to Emergency L	EXECUTE anding Without	

Electrical Fire in Flight

Standby battery OFF Master (ALT and BAT) OFF Vents/cabin air/heat **CLOSE** Fire extinguisher USE Avionics (BUS 1 and BUS 2) OFF All switches (except magnetos) OFF **OPEN** Vents/cabin air/heat When sure fire is completely extinguished If fire extinguished and electrical power necessary to continue flight: Circuit breakersCHECK, do not reset Master (ALT and BAT) ON Standby battery ON

ON

ON

Cabin Fire

Avionics (BUS 1)

Avionics (BUS 2)

OFF Standby battery Master (ALT and BAT) OFF Vents/cabin air/ CLOSE (to avoid heat drafts) Fire extinguisher **USE OPEN** Vents/cabin air/heat When sure fire is completely extinguished Land ASAP to inspect for damage

Wing Fire

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

Icing, Fuel Vapor, Abnormal Landings

Inadvertent Icing Encounter During Flight

Pitot heat ON Turn or change altitude to obtain an OAT less conducive to icing. Cabin heat **FULL ON** Defrosters **OPEN** Cabin air **ADIUST** Maximize defroster heat and airflow Induction icina **MONITOR** Adjust throttle to hold RPM. Adjust mixture as needed for any change in power settings Land **NEAREST AIRPORT**

With an extremely rapid ice build-up, select suitable off-airport landing site

With $\geq 1/4$ inch of ice on the leading edges, prepare for significantly higher stall speed

LEAVE RETRACTED Flaps Open left window 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 st	atic	PULL ON
Cabin heat/a	air	PULL ON
Vents		CLOSED
Airspeed	Consult calil	oration table
Se	ction 5, Figure	e 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 **SELECT OTHER** Fuel selector valve TANK (if

> symptoms continue)

Fuel pumpOFF (after fuel flow stabilized)

Landing With a Flat Main Tire

Approach **NORMAL** Flaps **FULL** Touchdown GOOD MAIN TIRE FIRST Keep flat tire in air as long as possible with aileron control Directional controlMAINTAIN using brake on good wheel as required

Landing With a Flat Nose Tire

Approach NORMAL Flaps AS REQUIRED Touchdown ON MAINS Hold nosewheel off ground as long as possible, maintain full up elevator as airplane slows to stop