Preflight (conti	inued)
	ennage
	VERIFY CLEAR
Rudder gust lock	
Control surfaces	CHECK
	novement, security
Trim tab	CHECK SECURE
	CHECK CONDITION
	ight
Flap CHECK SE	CURE, CONDITION
	ECK FREE, SECURE
Main wheel tire	CHECK INFLATION
	ose
Cooling inlets	VERIFY CLEAR
Propeller	CHECK FOR NICKS
Spinner	VERIFY SECURE
Air filter	CHECK CLEAR
Nosewheel strut,	tire CHECK
Static source	CHECK CLEAR
L	.eft
	CHECK INFLATION
Fuel vent	VERIFY CLEAR
Pitot tube	VERIFY CLEAR
Stall warning	TEST
	nts CHECK CLEAN
	ECK FREE, SECURE
Flap CHECK SE	CURE, CONDITION
F	inal
Weight and balar	nce CHECKED
Baggage door	LOCK
Tach, Hobbs time	
FlightCircle	DISPATCH
Chocks	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
FlightCircle	CHECK IN
Doors	LOCK

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# **Emergency Checklists**

#### **Engine Failure During Takeoff** Throttle IDLE Brakes APPLY RETRACT Flaps **CUT-OFF** Mixture

Magnetos

Standby battery

Master (ALT and BAT)

# **Engine Failure Immediately After**

idicoii	
Airspeed	Flaps up: 70 KIAS
	Flaps 10°-FULL: 65 KIAS
Mixture	CUT-OFF
Fuel shutoff	/alve OFF (pull full out)
Magnetos	OFF
Flaps	AS REQUIRED (FULL
	recommended)
Standby batt	ery OFF
Master (ALT	and BAT) OFF
Door	UNLATCH
Land	STRAIGHT AHEAD

#### **Engine Failure During Flight** (Restart Procedures)

Airspeed 68 KIAS (best glide speed) Fuel shutoff valve ON (push full in) Fuel selector valve **BOTH** Fuel pump ON Mixture RICH (if restart has not occurred) **BOTH** If propeller stopped: START, advance throttle slowly, lean mixture as required

If fuel flow drops to zero, turn fuel

# **Emergency Landing Without**

Fuel pump

pump back on

**Engine Power** Seats, seatbelts UPRIGHT, SECURE Flaps up: 70 KIAS Airspeed Flaps 10°-FULL: 65 KIAS Mixture **CUT-OFF** OFF (pull) Fuel shutoff valve Magnetos OFF AS REQUIRED (FULL Flaps 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 For	Œ	
Seats, seatb	elts	UPRIGHT, SECURE
Airspeed		65 KIAS
Flaps		20°
Selected fiel	d	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

#### Ditchina

OFF

OFF

OFF

Radio		on 121.5 MHz (Give
		location, intentions)
Transpo	nder	SQUAWK 7700
	bjects (in	SECURE or
baggag	e area)	JETTISON (if
		possible)
Seats, s	eatbelts	UPRIGHT, SECURE
Flaps		20°-FULL
Power	3	00 FT/MIN DESCENT
		AT 55 KIAS
If no po	wer avail	able, approach flaps
up 70 k	(IAS or fla	ps 10° 65 KIAS
Strong v	vind, hea۱	y seas: LAND INTO
WIND		
Light wi	nd, heavy	swells: LAND
PARALLI	EL TO SWE	ELLS

UNLATCH Doors LEVEL ATTITUDE at Touchdown established rate of descent CUSHION at touchdown with

folded coat ACTIVATE Airplane EVACUATE THROUGH CABIN **DOORS** If necessary, open window and flood cabin to equalize pressure so doors

can be opened. Life vests, raft INFLATE WHEN CLEAR OF AIRPLANE

### Fire During Start on Ground

Magnetos switch	START (continue
cra	nking to start the
	engine)
If engine starts:	,
Power 1800 RPM	for a few minutes
Engine	SHUTDOWN
If engine fails to star	rt:
Throttle	FULL
Mixture	CUT-OFF
Magnetos switch	START (continue
	cranking)
Fuel shutoff valve	OFF (pull)
Fuel pump	OFF
Magnetos	OFF
Standby battery	OFF
Master (ALT and B	AT) OFF
Engine	SECURE
Parking brake	RELEASE
Fire extinguisher	OBTAIN
Airplane	EVACUATE
Fire EX	TINGUISH via fire
extinguisher	, wool blanket, or
	dirt

Both cases: inspect and repair damage before conducting another

#### **Engine Fire in Flight**

Mixture	CUT-OF
Fuel shutoff valve	OFF (pull
Fuel pump	OF
Master (ALT and BAT Cabin heat and air	) OF
Cabin heat and air	OFF (excep
	overhead vents
Airspeed	100 KIAS
If fire not extinguisl	hed, increase

speed to find an airspeed, within airspeed limitations, which provides an incombustible mixture

Forced landing **EXECUTE** Refer to Emergency Landing Without Engine Power checklist

OFF

OFF

ON

#### **Electrical Fire in Flight** Standby battery Master (ALT and BAT)

Avionics (BUS 2)

Vents/cabin air/heat	CLOSI
Fire extinguisher	USI
Avionics (BUS 1 and BUS 2)	OF
All switches (except magnetos	<ul><li>oF</li></ul>
Vents/cabin air/heat	OPE
When sure fire is com	npletely
extinguished	
If fire extinguished and electri	cal
power necessary to continue f	light:
Circuit breakers CHECK	, do no
	rese
Master (ALT and BAT)	10
Standby battery	10
Avionics (BUS 1)	10

Cabin F	ıre	
Standby	battery	OFF
Master (	ALT and BA	AT) OFF
Vents/ca heat	bin air/	CLOSE (to avoid drafts)
Fire exti	nguisher	USE
Vents/ca	bin air/hea	at OPEN
	When sur	e fire is completely
	extinguish	ned
Land	ASAP to i	nspect for damage

## **Emergency Checklists**

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

# Inadvertent Icing Encounter

During Fright	
Pitot heat	ON
Turn or change alt	itude to obtain an
OAT less conduciv	e to icing.
Cabin heat	FULL ON
Defrosters	OPEN
Cabin air	ADJUST
Maximize defros	ter heat and airflow
Induction icing	MONITOR
Adjust throttle to	hold RPM. Adjust
mixture as neede	d 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 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 Perform in level attitude Avoid missed approaches if possible Missed approaches should be avoided whenever possible

#### Static Source Blockage (Erroneous Instrument Reading Suspected)

Alternate stati	PULL ON
Alternate stati Cabin heat/air	PULL ON
Vents	CLOSED
Airspeed C	insult calibration table
Secti	on 5 Figure 5-1 of POH

### **Excessive Fuel Vapor (Fuel Flow** Stabilization Procedures)

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

### Landing With a Flat Main Tire

Approach	NORMA
Flaps	FUL
Touchdown GO	OD MAIN TIRE FIRS
Keep flat	tire in air as long a
possible	with aileron control
Directional contro	I MAINTAIN usin
	brake on goo
	wheel as require

#### Landing With a Flat Nose Tire

Approach	NORMA
Flaps	AS REQUIRE
Touchdown	ON MAIN
Hold nosewheel off	ground as long a
possible, maintain full 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

1000 RPM Throttle 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)	<b>VERIFY OFF</b>
M Bus volts VERIFY 27.5	5V minimum
M Bat amps VERI	<b>FY POSITIVE</b>
If LOW VOLTS annunciato	r remains
on:	
Reduce Electrical Load	RUN

#### Reduce Electrical Load

Avionics (BUS 1)

checklist

Pitot heat

Beacon, taxi, n	av, strobe lights	OFF
Landing light	OFF (use as rec	'd for
	lar	nding)
Cabin power 13	2V	OFF
Note: When M bus volts drops below		
20V, the standby battery will supply		
power to the essential bus for at		
least 30 minut	es	
COM1, NAV1		TUNE
COM1 MIC and	NAV1 SE	LECT

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.

#### 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 altimeter CHECK current barometric pressure SET. USE

for altitude

information

glareshield)

### 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 information

### PFD1 COOLING or MFD1

COOLING Annur	iciator(s)
Cabin heat	REDUCE (minimum
	preferred)
Forward avionics	CHECK (feel for
fan	airflow from
	screen on

If forward avionics fan failed:

OFF

OFF

Standby battery OFF 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 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 OFF (push full in) Cabin heat

ON (pull full out) Cabin air Cabin vents Windows OPEN (163 KIAS maximum windows open speed) If high CO level remains:

Land AS SOON AS PRACTICAL