

## GROUND EMERGENCIES

### ENGINE FIRE DURING ENGINE START

Fuel Valve	CLOSED
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Fuel pump	OFF
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Brakes	ENGAGE
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Once aircraft has stopped:

Starter	KEEP CRANKING
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Throttle Lever	Full Power
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If flames are extinguished:

Ignition Switch	OFF
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Master Switch	OFF
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If flames persist: perform Emergency engine shutdown on Ground and Emergency egress checklist.

### EMERGENCY ENGINE SHUTDOWN

Throttle Lever	IDLE
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Ignition Switch	OFF
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Fuel Valve	CLOSED
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Master Switch	OFF
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## EMERGENCY GROUND EGRESS

Engine	SHUTDOWN
Brakes / Parking Brake	ENGAGED
Seat Belts	RELEASE
Airplane	EXIT

## IN FLIGHT EMERGENCIES

### ENGINE FAILURE AT TAKE OFF (LOW ALT)

Best Glide or Landing Speed (as appropriate)	ESTABLISH (see POH)
Fuel Valve	CLOSED
Ignition Switch	OFF
Flaps	as required
Fuel pump	OFF
If time permits:	
Throttle Lever	IDLE
Master Switch (just before touch down)	OFF
Seat belts	ensure secured



## ENGINE FAILURE IN FLIGHT

Best Glide Speed	ESTABLISH (69 KIAS)
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Fuel Valve	CHECK OPEN
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Ignition Switch	CHECK ON
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Restart the engine in flight:

## ENGINE START IN FLIGHT

Master Switch	ON
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Throttle Lever	10 mm OPEN
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Starter (Propeller not windmilling)	ENGAGE
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Throttle Lever	Slowly INCREASE
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## ENGINE PARTIAL POWER LOSS

Throttle Lever	Sweep
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Ignition Switch	Check single MAG operation
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Land	AS SOON AS POSSIBLE
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If engine stops: perform engine failure  
in flight check-list

## LOW OIL PRESSURE

Throttle Lever	Minimum Required
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Land	AS SOON AS POSSIBLE
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## SMOKE IN THE COCKPIT

Cabin Air Selector	OFF (push)
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Door Vents / Roof outlet	OPEN
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If source of smoke and fume is firewall forward  
(smoke decreases):

Door Vents / Roof outlet	As required
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Land	AS SOON AS POSSIBLE
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If source of smoke and fume is inside the cabin  
(smoke increasing, cause most likely electrical):

Cabin Air Selector	ON (pull)
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Door Vents / Roof outlet	As required
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If time/situation permits

Switches and Circuit breakers on switch panel	Disengage one at time until failed system is found
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Land	AS SOON AS POSSIBLE
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If time/situation does not permit

Master BAT & Master GEN	OFF
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Land	AS SOON AS POSSIBLE
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## ENGINE FIRE FLIGHT

Fuel Valve	CLOSED
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Fuel pump	OFF
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Cabin Air Selector	OFF
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Throttle Lever	Full Forward
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After the engine stops:

Ignition Switch	OFF
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Land (emergency landing)	IMMEDIATELY
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Master Switch (just before touchdown)	OFF
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## COCKPIT FIRE IN FLIGHT

Cabin Air Selector	OFF
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Battery Disconnect Switch	OFF
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MASTER Switch	OFF
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Fire Extinguisher (if available)	ACTIVATE
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Door air inlets/roof outlet	OPEN (if necessary)
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If airflow is not sufficient to clear smoke  
or fumes from cabin - When fire extinguished:

Cabin Air Selector	ON
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Green Electrical Switches	OFF
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Land (emergency landing)	AS SOON AS POSSIBLE
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## BPRS DEPLOYMENT

Airspeed	MINIMUM POSSIBLE
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Ignition Switch (if time/altitude permits)	OFF
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Activation Handle	PULL
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After Deployment:

Fuel Valve	CLOSED
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Fuel pump	OFF
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Master Switch	OFF
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ELT	ACTIVATE
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Seat Belts	TIGHTEN
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Loose Items	SECURE
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Assume emergency landing body position.  
After the impact break out the windows to exit if doors  
are jammed.



## LANDING EMERGENCIES

### EMERGENCY LANDING WITHOUT ENGINE POWER

Best Glide Speed	ESTABLISH - 69 KIAS
Transponder	SQUAWK 7700
ELT switch	ON (if necessary)
Throttle Lever	IDLE
Fuel Valve	CLOSED
Fuel pump	OFF
Ignition Switch	OFF
Radio	Transmit (121.5 MHz) MAYDAY
Flaps (when landing is assured)	+2
Master Switch (just before touchdown)	OFF
Seat Belts	SECURED

### DITCHING

Radio	Transmit (121.5 MHz) MAYDAY
ELT Switch	ON
Transponder	SQUAWK 7700
BPRS	ACTIVATE
Doors	UNLATCH before impact with water
Airplane	EVACUATE
Flotation Devices	INFLATE when clear of the airplane



### LANDING WITHOUT ELEVATOR CONTROL

Flaps	+2
Trim	SET 60 KIAS
Throttle Lever	as required for glide angle

### LANDING WITH DEFECTIVE BRAKES

Seat Belts	SECURED
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After safe touch-down

Ignition Switch	OFF
Fuel Valve	CLOSED
Fuel pump	OFF
Master Switch	OFF

### GENERATOR FAILURE

Unnecessary equipment	Switch OFF (to reduce loads)
Voltage	monitor
Land	AS SOON AS PRACTICAL

### PITOT STATIC MALFUNCTION

Refer to GPS for flying:

Ground speed indicator	+10 KTS for procedures, observe winds
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## COMMUNICATION FAILURE

Switches, Controls, Volume	CHECK
Frequency	CHANGE
Circuit Breakers	CHECK
Headset	CHANGE
Transmission	ATTEMPT

If unsuccessful:

TRANSPONDER	SQUAWK 7600
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## EL. TRIM FAILURE

Airplane Control	Grasp stick - maintain manually
Trim Circuit Breaker	Verify ENGAGED

If problem is not corrected:

Trim Circuit Breaker	RESET (ONLY once!)
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If problem is not corrected:

Trim Circuit Breaker	DISENGAGE
Throttle Lever	As required
Control Stick	Manually hold pressure
Land	AS SOON AS PRACTICAL

## BATT OVERVOLTAGE / MALFUNCTION

Master Switch	OFF
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## SPIN RECOVERING TECHNIQUE

Throttle Lever

IDLE

Roll input

NEUTRAL

Rudder

Full deflection - direction  
opposite to the spin

As rotation is about to stop, or fully stopped:

Rudder

NEUTRAL

Control Stick

Release force towards  
neutral elevator position,  
maintain roll input neutral

Establish horizontal flight without exceeding g-load or  
airspeed limitations

