



ENGINE FAILURE (BEFORE ROTATE)

THROTTLE	IDLE
BRAKES	APPLY
FUEL SELECTOR	OFF
MIXTURE IDLE	CUTOFF
MAGNETOS	OFF
BATTERY MASTER SWITCH	OFF

ENGINE FAILURE (AFTER ROTATION)

AIRSPEED	79 KIAS
GEAR	AS DESIRED

IF ALTITUDE PERMITS

ALTERNATE AIR	OPEN
MIXTURE	FULL RICH
ELECTRIC FUEL PUMP	CHECK ON
MAGNETOS	BOTH
FUEL SELECTOR	SWITCH TANKS

IF ENGINE DOES NOT RESTART

FORCED LANDING	EXECUTE
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ENGINE FAILURE (IN FLIGHT)

AIRSPEED	79 KIAS
ALTERNATE AIR	OPEN
MIXTURE	FULL RICH
ELECTRIC FUEL PUMP	ON
MAGNETOS	BOTH
FUEL SELECTOR	SWITCH TANKS
ENGINE GAUGES	CHECK

IF POWER IS RESTORED

ALTERNATE AIR	CLOSE
ELECTRIC FUEL PUMP	OFF

IF POWER IS NOT RESTORED

FORCED LANDING	EXECUTE
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FORCED LANDING

AIRSPEED	79 KIAS
PROPELLER	AS DESIRED
MIXTURE	IDLE CUT-OFF
THROTTLE	CLOSED
MAGNETOS	OFF
FUEL SELECTOR	OFF
BELTS/HARNESSES	FASTENED & SECURE
GEAR & FLAPS	AS DESIRED
LANDING ASSURED	72 KIAS
BATTERY MASTER SWITCH	OFF
ALTERNATOR SWITCH	OFF
DOOR	OPEN

ENGINE FIRE (DURING START)

STARTER	CONTINUE CRANKING
MIXTURE	IDLE CUT-OFF
THROTTLE	FULL OPEN
ELECTRIC FUEL PUMP	OFF
FUEL SELECTOR	OFF

ABANDON IF FIRE CONTINUES

ENGINE FIRE (IN FLIGHT)

THROTTLE	CLOSED
MIXTURE	IDLE CUT-OFF
ELECTRIC FUEL PUMP	CHECK OFF
FUEL SELECTOR	OFF
HEATER & DEFROSTER	OFF
FORCED LANDING	EXECUTE

ELECTRICAL FIRE

BATTERY MASTER SWITCH	OFF
ALTERNATOR SWITCH	OFF
VENTS	OPEN
CABIN HEAT	OFF
FIRE EXTINGUISHER (If required)	ACTIVATE

LAND AS SOON AS POSSIBLE

LOSS OF OIL PRESSURE

OIL PRESSURE GAUGE	CHECK
OIL TEMPERATURE GAUGE	CHECK
LAND	AS SOON AS POSSIBLE

IF TEMPERATURE IS RISING

THROTTLE	REDUCE
FORCED LANDING (If required)	EXECUTE

LOSS OF FUEL PRESSURE

ELECTRIC FUEL PUMP	ON
FUEL GAUGES	CHECK
FUEL SELECTOR (If sufficient fuel)	SWITCH TANKS

PROPELLER OVERSPEED

THROTTLE	REDUCE
OIL PRESSURE	CHECK
PROPELLER CONTROL	FULL DECREASE

SET RPM IF ANY CONTROL AVAILABLE

AIRSPEED	REDUCE
THROTTLE (Maintain < 2700 RPM)	AS REQUIRED



ROUGH RUNNING ENGINE

MIXTURE	ADJUST FOR SMOOTHNESS
ALTERNATE AIR	OPEN
ELECTRIC FUEL PUMP	ON
FUEL SELECTOR	SWITCH TANKS
ENGINE GAUGES	CHECK
MAGNETO SWITCH	CHECK THEN BOTH

IF ROUGHNESS PERSISTS, PREPARE FOR A PRECAUTIONARY LANDING

ELECTRICAL FAILURE

ALT ANNUNCIATOR ON

AMMETER CHECK TO VERIFY

IF AMMETER SHOWS ZERO

ALTERNATOR SWITCH	OFF
ELECTRICAL LOAD	REDUCE
ALTR FIELD CB	CHECK & RESET
ALTERNATOR SWITCH	ON

IF POWER NOT RESTORED

ALTERNATOR SWITCH	OFF
ELECTRICAL LOAD	REDUCE
STANDBY ATTITUDE	CHECK

IF AMBER LIGHT IS FLASHING

STANDBY POWER BUTTON	PRESS
RED GYRO WARNING FLAG	CHECK
AMBER WARNING LIGHT	VERIFY EXTINGUISHED

LAND AS SOON AS PRACTICABLE

ELECTRICAL OVERLOAD

BATTERY MASTER SWITCH OFF

IF AMMETER DOES NOT DECREASE

ALTERNATOR SWITCH	OFF
LAND	AS SOON AS POSSIBLE
EMERGENCY GEAR EXT. (Prior to landing)	EXECUTE

IF AMMETER DOES DECREASE

BATTERY MASTER SWITCH	ON
AMMETER	MONITOR

IF AMMETER READING DOES NOT BEGIN TO DECREASE WITHIN 5 MINUTES

BATTERY MASTER SWITCH	OFF
LAND	AS SOON AS PRACTICABLE

IF AMMETER DOES BEGIN TO DECREASE WITHIN 5 MINUTES

FLIGHT	PROCEED
AMMETER	MONITOR

HIGH OIL TEMPERATURE

HIGH OIL TEMP, BUT NOT INCREASING

(THIS IS LIKELY DUE TO A LOW OIL LEVEL)

ENGINE GAUGES	CHECK & MONITOR
LAND	AS SOON AS PRACTICABLE

HIGH OIL TEMP, RAPIDLY INCREASING

(THIS IS LIKELY DUE TO AN IMPENDING FAILURE)

LAND	AT NEAREST AIRPORT
OIL PRESSURE	MONITOR FOR LOSS OF PRESSURE

EMERGENCY GEAR EXTENSION

NAV LIGHTS	OFF
GEAR INDICATOR BULBS	CHECK

IF GEAR STILL DOES NOT INDICATE DOWN

AIRSPEED	(Max) 87 KIAS
BATTERY MASTER SWITCH	ON
ALTERNATOR SWITCH	ON
CIRCUIT BREAKERS	CHECK IN
GEAR SELECTOR	DOWN

IF GEAR DOES NOT EXTEND NORMALLY

AIRSPEED	(Max) 87 KIAS
GEAR SELECTOR	SWITCH DOWN
EMERGENCY GEAR LEVER	HOLD IN DOWN POSITION
AIRCRAFT	FISHTAIL TO LOCK MAIN GEAR

IF ELECTRICAL POWER HAS FAILED, GEAR WILL HAVE TO BE EXTENDED AS DETAILED ABOVE. THE GEAR POSITION INDICATOR

LIGHTS WILL NOT ILLUMINATE.

DOOR HAS OPENED IN FLIGHT

SLOW AIRCRAFT	87 KIAS
CABIN VENTS	CLOSE
STORM WINDOW	OPEN
SIDE LATCH	CLOSE
TOP LATCH	CLOSE

THE AIRCRAFT WILL FLY OK WITH THE DOOR OPEN. THE PIC TRYING TO CLOSE IT IN FLIGHT MAY CAUSE LOSS OF CONTROL. IF POSSIBLE DELEGATE TO A PASSENGER OR LEAVE ALONE AND LAND AS SOON AS PRACTICABLE.