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E 4**ENGINE FAILURE IN FLIGHT **

ROUGH ENGINE	
1 Carburetor Heat	PULL (ON)
2 Fuel Pump	ON
3 Ignition Switch cycle	L-BOTH
4 Ignition Switch cycle	R-BOTH
5 Throttle	MAINTAIN
6 If roughness continues	REDUCE PWR
7 Precautionary LDG	PERFORM

LOSS OF OIL PRESSURE	
1 Oil Temperature	CHECK NORM
2 If Oil Press. Below Green	LAND NRST A/D
3 Oil Temperatur	RISING
4 Throttle	REDUCE MIN
5 Precautionary LDG	PERFORM

LOSS OF FUEL PRESSURE	
1 Fuel Pump	ON
2 Fuel Selector	FULLER TANK
3 Fuel press. Warning Light	CHECK OFF
4 Fuel Pump	OFF
5 Fuel press. Warning Light ON	LAND NRST A/D

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E 3**ENGINE FAILURE** **BEFORE TAKEOFF**

1	Throttle	IDLE
2	Brakes	APPLY
3	Tower (ATC)	INFORM

AFTER T/O & DURING CLIMB

1	Airspeed	70 KIAS
2	ATC - Call for Emergency	CALL
3	Fuel Selector	FULLER TANK
3	Fuel Pump	ON
4	Ignition	BOTH
5	Throttle	FULL FWD
6	Prop	FULL FWD
7	Choke	PUSH (OFF)
8	Carburetor Heat	PULL (ON)
9	Flaps	AS REQ
Before Landing		
10	Fuel Selector	OFF
11	Ignition	OFF
12	ALT1 / BAT	OFF

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E 5**ENGINE RESTART** **STOPPED PROPELLER**

1 Non Essential Electrics	OFF
2 Master - ALT1 / BAT	ON
3 Prop	FULL FWD
4 Fuel Selector	FULLER TANK
5 Fuel Pump	ON
6 Throttle when hot	2 cm OPEN
7 when cold	IDLE
8 Choke when hot	PUSH (OFF)
9 when cold	PULL / HOLD
10 Ignition	BOTH / START
When Power Restored	
11 Oil Pressure	CHECK
12 Choke	PUSH (OFF)
13 Electrical Equipment	AS REQ
14 Oil Temperature	CHECK

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E 8**FORCED LANDING** **EMERGENCY LANDING**

1 Emergency Frequency	121,5 MHz
2 Emergency Call (121,5 MHz)	REPORT
3 Flap LDG	60 KIAS
4 Flap T/O	65 KIAS
5 Flap UP	70 KIAS
6 Fuel Selector	OFF
7 Ignition	OFF
8 Seat Belt / Harness	TIGHT
9 Master - ALT1 / BAT	OFF

SMOKE AND FIRE **ENGINE FIRE ON GROUND**

1 Fuel Selector	OFF
2 Throttle	FULL FWD
3 Master - ALT1 / BAT	OFF
4 Ignition	OFF
5 Aircraft	EVACUATE

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E 7**FORCED LANDING** **PRECAUTIONARY LANDING**

1	ATC	INFORM
2	Locate a suitable Field - Caution	WIND / OBSTACLE
3	Seat Belt / Harness	TIGHT
4	Initiate Descent	INSPECT FIELD
5	Abeam touchdown	PREP LANDING
6	Throttle	AS REQ
7	Prop	FULL FWD
8	Carburetor Heat	PUSH (OFF)
9	Fuel Pump	ON
10	Flaps	LDG
11	Airspeed	60 KIAS
12	Touchdown	LOWEST SPEED
13	Brakes	AS REQ
14	Fuel Selector	OFF
15	Ignition Switch	OFF
16	Master - ALT1 / BAT	OFF

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E 6**ENGINE RESTART** **PROPELLER WINDMILLING**

1	Airspeed	78 KIAS
2	Master - ALT1 / BAT	ON
3	Fuel Selector	FULLER TANK
4	Prop	FULL FWD
5	Fuel Pump	ON
6	Ignition	BOTH
7	Throttle when Hot	2 cm OPEN
8	when cold	IDLE
9	Choke when Hot	PUSH OFF
10	when Cold	PULL / HOLD
11	Oil Pressure	CHECK
12	Choke	PUSH (OFF)
13	Electrical Equipment	AS REQ
14	Oil Temperature	CHECK

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E 9**SMOKE AND FIRE** **ENGINE FIRE IN FLIGHT**

1	Throttle	FULL FWD
2	Fuel Selector	OFF
3	Cabin Heat	PUSH (OFF)
4	Canopy Slide Window	OPEN
5	Emergency Landing	PERFORM (E8)

ELECTRICAL FIRE / SMOKE ON GROUND

1	Master - ALT1 / BAT	OFF
If engine is running		
2	Throttle	IDLE
3	Fuel Selector	OFF
4	Ignition	OFF
5	Canopy / Window	OPEN
6	Fire Extinguisher	AS REQ

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E 12**ALTERNATOR FAILURES** **ALTERNATORS ALT1 + ALT2 FAIL**

1	Master - ALT1	OFF / ON
2	ALT1 CB	RESET
3	ALT2 CB	RESET
If ALT1 + ALT2 Warn-Light still on, or If Voltage still low		
4	ALT1 CB	PULL
5	ALT2 CB	PULL
6	Master - ALT1	OFF
7	Non-Essential Equipment	OFF
8	Land at nearest A/D	< 30 MIN

VOLT WARNING LIGHT

1	Master - ALT1	OFF / ON
2	ALT1 CB	RESET
3	ALT2 CB	RESET
If still Low Voltage		
4	ALT1 CB	PULL
5	ALT2 CB	PULL
6	Master - ALT1	OFF
7	Non-Essential Equipment	OFF
8	Land at nearest A/D	< 30 MIN

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E 11**ALTERNATOR FAILURES** **ALTERNATOR ALT1 FAILURE**

1	ALT1 Warning Light	ILLUMIN
2	Master - ALT1	OFF / ON
3	ALT1 CB	RESET
4	If ALT1 warning Light	STILL ON
5	ALT1 CB	PULL
6	Master - ALT1	OFF
7	Non-Essential Equipment	OFF
8	Voltmeter / Ammeter	MONITOR
9	Land	NEAREST A/D

ALTERNATOR ALT2 FAILURE


1	ALT2 CB	RESET
2	If ALT2 Warning Light	STILL ON
3	ALT2 CB	PULL
4	If ALT1 operating	CONTINUE
5	Non-Essential Equip	OFF

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E 10**SMOKE AND FIRE** **ELECTRICAL FIRE/ SMOKE IN FLIGHT**

1	Master - ALT1 / BAT	OFF
2	ALT2 CB	PULL
3	Avionics	OFF
4	All Electr. Switches	OFF 
5	Vents, Slide Window	OPEN
6	Flashlight (Night)	ON
7	Fire Extinguisher	AS REQ
8	Forced Landing	PERFORM (E8)
9	Engine	SHUTDOWN
10	Canopy	OPEN
11	After Engine stops	EVACUATE

ELECTRICAL SYSTEM MALFUNCTIONS **COMPLETE ELECTRICAL SYSTEM FAIL**

1	Flight Attitude	STABILISE
2	Flashlight	ON
3	Master - ALT1 / BAT	CHECK ON
4	ALT2 CB	RESET
5	BAT CB	RESET
6	ALT1 CB	RESET
If still no Power		
8	Precautionary LDG	PERFORM (E7)

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LOW VOLTAGE INDICATION 📄🔑

LOW VOLT ON GROUND

1	Increase RPM	UP TO 1350 rpm
2	Non-Essential Equipment	OFF
3	If Voltage still low on Ground	DO NOT FLY 📄🔑

LOW VOLT IN FLIGHT / APP

1	Non-Essential Equipment	OFF
2	If Voltage still low	ALT FAIL
3	Land at nearest A/D	< 30 MIN
4	After Landing, perform CL low Volt on Ground	📄🔑

TRIM CONTROL SYSTEM FAILURES 📄🔑

TRIM SYSTEM INOPERATIVE

1	Trim Actuator CB	RESET
2	Trim Control CB	RESET
3	Trim Switch: NOSE	UP / DOWN
4	Land	LAND NRST A/D

TRIM ACTUATOR RUNAWAY

1	Control Column	HOLD
2	Trim Actuator CB	PULL
If Trim Switch is pressed or jammed		
3	Trim Actuator CB	RESET
4	If Problem remains	LAND NRST A/D

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OTHER EMERGENCIES 📄🔑

FLAT TIRE LANDING

1	Flaps	LDG
2	Runway Side	GOOD TIRE
3	Touchdown	GOOD TIRE
4	Nosewheel down	ASAP
5	Steering with Nosewheel	
6	Aileron deflect to good Tire	

FLAT NOSEWHEEL TIRE LANDING

1	Touchdown	MIN SPEED
2	Nosewheel	KEEP HIGH

STARTER MALFUNCTION

1	Starter does not decouple from Engine	
2	Throttle	IDLE
3	Ignition	OFF
4	Do not Fly	

CANOPY OPENS IN FLIGHT

1	Keep calm	NO DANGER
2	Flight attitude	STABILIZE
3	Airspeed	65 - 75 KIAS
4	Canopy	CLOSE / LOCK
5	If closing impossible	LAND NRST A/D

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OTHER EMERGENCIES 

SPIN RECOVERY

1 Rudder	FULL OPPOSITE
2 Elevator NEUTRAL	SLIGHT FWD
3 Aileron	NEUTRAL
4 Throttle	IDLE
5 Flaps	UP
6 When rotation stops - RUDDER	NEUTRAL
7 Elevator carefully recover	V_{NE} 165 kts

INADVERTENT FLIGHT IN ICING

1 Carburetor Heat	PULL (ON)
2 Leave Ice Condition	IMMEDIATELY
3 P/S Heat	ON
4 Prop Lever	FULL FWD
5 Cabin Heat	PULL (ON)
6 Control Surfaces	MOVE

ATTENTION: Stall Speed increases**ATTENTION:** Airspeed, ALT, VSI unreliable

POWER OFF GLIDE

1 Flaps	UP
2 Airspeed	78 KIAS
3 Glide Ratio	14
2,3 NM / 1000 ft (at no Wind)	

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FLAP CONTROL SYSTEM MALFUNCTION 

INDICATOR OR ACTUATOR FAIL

1 Flap Actuator CB	RESET
2 Flap Control CB	RESET
3 Flap Position left Wing	CONFIRM
4 Airspeed	WHITE ARC
5 Flaps selector	ALL POSITIONS
6 Approach / Landing	SAFE SPEEDS

AVIONICS MALFUNCTIONS 

COMPLETE AVIONICS FAILURE

1 Avionic Master	OFF - 20 sec - ON
2 If AV-Switch trips to the off position	LAND NRST A/D

COM - RECEIVE MODE FAILURE

1 PTT- Button PIC/CO (Radio Display)	CHECK IF TX
2 Squelch	CHECK
3 Squelch	SWITCH OFF
4 Headset Connectors	CHECK
5 If Problem remains - inform ATC	TRANSMIT BLIND

COM - TRANSMIT MODE FAILURE

1 Transmit Signal TX	CHECK
2 Selected Frequency	CHECK
3 Microphone	CHECK/REPLACE
4 If Problem remains	X-PDR 7600

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