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**Consult POH / AFM for "Warnings, Cautions and additional Information"**

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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	Master - ALT1 / BAT	OFF



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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 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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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 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 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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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	Precautionary LDG	PERFORM (E7)

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 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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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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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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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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E 14**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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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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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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