

E 1**EMERGENCY D-EAVZ****1. ENGINE FAILURES**

BEFORE TAKEOFF	E 3
AFTER T/O & DURING CLIMB	E 3

2. ENGINE FAILURE IN FLIGHT

ROUGH ENGINE	E 4
LOSS OF OIL PRESSURE	E 4
LOSS OF FUEL PRESSURE	E 4

3. ENGINE RESTART

STOPPED PROPELLER	E 5
PROPELLER WINDMILLING	E 6

4. FORCED LANDING

PRECAUTIONARY LANDING	E 7
EMERGENCY / POWER OFF - LDG	E 8

5. SMOKE AND FIRE

ENGINE FIRE ON GROUND	E 8
ENGINE FIRE IN FLIGHT	E 9
EL. FIRE / SMOKE ON GROUND	E 9
EL. FIRE / SMOKE IN FLIGHT	E 10

6. EL. SYSTEM MALFUNCTIONS

COMPLETE EL. SYSTEM FAIL	E 10
--------------------------	------

7. GENERATOR FAILURES

GENERATOR GEN1 FAILURE	E 11
GENERATOR GEN2 FAILURE	E 11
GENERATORS GEN1+GEN2 FAIL	E 12
VOLT WARNING LIGHT	E 12

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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 Pump	ON
4 If Fuel press. Warning Light still 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	CONTACT
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 - GEN / BAT	OFF

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E 2**EMERGENCY D-EAVZ****8. LOW VOLTAGE INDICATION**

LOW VOLT ON GROUND	E 13
LOW VOLT IN FLIGHT / APP	E 13

9. TRIM CONTROL SYSTEM FAILURES

TRIM SYSTEM INOPERATIVE	E 13
TRIM ACTUATOR RUNAWAY	E 13

10. FLAP CONTR. SYS. MALFKT.

INDICATOR OR ACTUATOR FAIL	E 14
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11. AVIONICS MALFUNCTIONS

COMPLETE AVIONICS FAILURE	E 14
COM - RECEIVE MODE FAILURE	E 14
COM - TRANSMIT MODE FAILURE	E 14

12. GARMIN G500 MALFUNCTIONS

G500 - PFD FAILURE	E 15
G500 - HEADING FAILURE	E 15
G500 - AHRS FAILURE	E 15
G500 - AIR DATA COMP. FAILURE	E 15

13. OTHER EMERGENCIES

SPIN RECOVERY	E 16
INADVERTENT FLIGHT IN ICING	E 16
POWER OFF GLIDE	E 16
FLAT TIRE LANDING	E 17
FLAT NOSEWHEEL TIRE LANDING	E 17
STARTER MALFUNCTION	E 17
CANOPY OPENS IN FLIGHT	E 17

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

1 Non Essential Electrics	OFF
2 Master - GEN / 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 / POWER OFF - 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 - GEN / BAT	OFF

SMOKE AND FIRE **ENGINE FIRE ON GROUND**

1 Fuel Selector	OFF
2 Throttle	FULL FWD
3 Master - GEN / 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	PULL (ON)
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 - GEN / BAT	OFF

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

1	Airspeed	76 KIAS
2	Master - GEN / 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 Fuel Selector	OFF
2 Air Speed	90 KIAS
3 Flaps T/O	SET
4 Throttle	FULL FWD
5 Cabin Heat	PUSH (OFF)
6 Canopy Slide Window	OPEN
7 Power Off LDG	PERFORM (E8)

ELECTRICAL FIRE / SMOKE ON GROUND

1 Master - GEN / 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**GENERATOR FAILURES** **GENERATORS GEN1 + GEN2 FAIL**

1 Master - GEN	OFF / ON
2 GEN1 CB	RESET
3 GEN2 CB	RESET
If GEN1 + GEN2 Warn-Light still on, or If Voltage still low	
4 GEN1 CB	PULL
5 GEN2 CB	PULL
6 Non-Essential Equipment	OFF
7 Land at nearest A/D	< 30 MIN

VOLT WARNING LIGHT

1 Master - GEN	OFF / ON
2 GEN1 CB	RESET
3 GEN2 CB	RESET
If still Low Voltage	
4 GEN1 CB	PULL
5 GEN2 CB	PULL
6 Non-Essential Equipment	OFF
7 Land at nearest A/D	< 30 MIN

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E 11**GENERATOR FAILURES** **GENERATOR GEN1 FAILURE**

1	GEN1 Warning Light	ILLUMIN
2	Master - GEN	OFF / ON
3	GEN1 CB	RESET
4	If GEN1 warning Light	STILL ON
5	GEN1 CB	PULL
6	Power Flarm	OFF
7	ACL	OFF
8	Master - GEN	OFF
9	Non-Essential Instruments	DIMM
10	Voltmeter / Ammeter	MONITOR

GENERATOR GEN2 FAILURE


1	GEN2 Warning Light	ILLUMIN
2	GEN2 CB	RESET
3	If GEN2 Warning Light	STILL ON
4	GEN2 CB	PULL
5	If GEN1 operating	CONTINUE
6	Non-Essential Equip	CONSIDER OFF

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

1	Master - GEN / BAT	OFF
2	GEN2 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 - GEN / BAT	CHECK ON
4	GEN2 CB	RESET
5	BAT CB	RESET
6	GEN1 CB	RESET
If still no Power		
7	Precautionary LDG	PERFORM (E7)

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E 13**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 / APPROACH

1 Non-Essential Equipment	OFF
2 If Voltage still low	GENERATOR 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 16**OTHER EMERGENCIES** **SPIN RECOVERY**

1 Rudder	FULL OPPOSITE
2 Throttle	IDLE
3 Elevator NEUTRAL	SLIGHT FWD
4 When rotation stops - RUDDER	NEUTRAL
5 Aileron	NEUTRAL
6 Flaps	UP
7 When rotation stops - RUDDER	NEUTRAL
8 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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E 15**GARMIN G500 MALFUNCTIONS** **G500 - PFD FAILURE**

1 Attitude of Flight	STABILIZE
2 CB - PFD / MFD	RESET
3 Standby Instruments	USE

G500 - HEADING FAILURE

1 CB - AHRS	RESET
2 Magnetic Compass	USE


G500 - AHRS FAILURE

1 CB - AHRS	RESET
2 Standby Instruments	USE

G500 - AIR DATA COMPUTER FAILURE

1 CB - ADC	RESET
2 Standby Instruments	USE

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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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E 17**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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NORMAL AIRSPEEDS

TAKEOFF

Climb Flaps T/O	57 KIAS
V _x Flaps T/O	52 KIAS
V _Y Flaps UP	65 KIAS 

LANDING

Final APP Flaps LDG	60 KIAS
Balked Ldg Flaps LDG	60 KIAS
Max. demo X Wind	15 KIAS
V _{fe} max, Flaps LDG	90 KIAS

CRUISE

V _A Maneuvering	112 KIAS
V _{no} Max Turbulent Air	130 KIAS
V _(NE) Max Airspeed	165 KIAS

AIRSPEEDS FOR EMERGENCY

V _A Maneuvering	112 KIAS
Best Glide Flaps UP	78 KIAS
Best Glide Flaps T/O	73 KIAS
Precautionary Flaps LDG	60 KIAS
<hr/>	
No Engine Power	
Flaps T/O	65 KIAS
Flaps UP	70 KIAS