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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 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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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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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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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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S M O K E A N D F I R E 

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 10**S M O K E A N D F I R E**  

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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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 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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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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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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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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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

TAKE OFF

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

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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 style="border: 1px solid black;"/>	
No Engine Power	
Flaps T/O	65 KIAS
Flaps UP	70 KIAS

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