

#### Checklist for Diamond DA42 NG

Edition #: 17.3 NG Edition date: 15.03.2017

Please observe:

The file you are receiving hereby combines all three sections of the checklist: Normal Checklist, Emergency Checklist and Abnormal Checklist.

**All** pages of a new edition will have the same new "edition #" and "edition date", even if only one page was amended and all other pages still have the same, unchanged content.

Therefore the "List of Effective Pages" (LEP) is provided. It is here where you can see whether a particular page was amended. Pages which have been amended by a new edition will be marked yellow. For all other pages you will see which original "edition #" (and of course any higher "edition #") is still valid.

#### Note:

The system of assigning "Edition #" is as follows:

- if the revision affects all types, a new edition # (without a decimal figure) will be assigned to all of the checklists
- if the revision does not affect all types, the affected checklists will get subsequent "decimal figures" until a major revision affecting all checklists is issued.

Have a lot of nice flights and happy landings! Peter Schmidleitner

#### Comments explaining Edition # 17.3 are on page 2 of this document

#### Checklist DA42 NG - LEP

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-	(or an	y higher)
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C		
Section	: Normal (	
1	15.2	15.12.2011
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10	16	01.12.2012
11	16.5	01.08.2014

Section: E	<b>Emergency</b>	Checklist
1	15.2	15.12.2011
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11	15.2	15.12.2011
12	16.4	01.06.2014
13	17.1	01.10.2015
Section:	Abnormal	Checklist
14	16.5	01.08.2014
15	17.1	01.10.2015
16	16.5	01.08.2014
17	16.5	01.08.2014
18	16.5	01.08.2014
19	16.5	01.08.2014

#### Comments explaining Edition # 17.2

#### **Normal Procedures:**

Page 8:

Approach items for 1-eng approach added Editorial correction

#### **Emergency Procedures:**

Pages 5, 6, 7, 10: Editorial corrections

#### **Abnormal Procedures**

No change

#### Comments explaining Edition # 17.3

#### Normal Procedures:

Page 9:

SECURING THE AIRCRAFT: Pitot cover added

#### **Emergency Procedures:**

No change

#### **Abnormal Procedures**

No change

### NORMAL CHECKLIST



This checklist is compiled according the guidelines of GAMA Specification No.1, SECTION 3, para 3.5, SECTION 3A, para 3A.5 and SECTION 4, para 4.5.

The "Amplified Normal Procedures", "Amplified Emergency Procedures" and "Amplified Abnormal Procedures" according GAMA Specification No. 1 are in the DA42 Airplane Flight Manual Chapters 4A, 3 and 4B.

This checklist is a Recommended Operator Checklist and for reference only.

It is not a substitute for and does not supersede the current approved Airplane Flight Manual or any of its supplements or parts thereof, or any training or procedures required by any regulatory or advisory bodies.

This checklist may not contain all procedures shown in the Airplane Flight Manual. For a comprehensive listing of all procedures consult the Airplane Flight Manual.

Use of the checklist is at the user's sole risk and discretion.

Any possible liability of Diamond Flight Training and/or Diamond Aircraft Industries for any damages, injury or death resulting from its use is excluded.

All such terms and conditions shall be deemed to be explicitly accepted in full by using the checklist. If you do not understand, or if you disagree with, any of the above terms and conditions and in any jurisdiction that does not give effect to all provisions of these terms and conditions any use of the checklist is not permitted.

Use of the electronic checklist (if available):

Before using the electronic checklist on the G1000 the following sections have to be completed using this paper checklist:

- Preflight interior + exterior
- **Preflight exterior**
- Check before engine start items 1 to 23 (may be completed by heart).

This checklist also serves as a back up for the electronic checklist in case the G1000 MFD is not available.

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Attention! For use of fuel additives see AFM

- if ice protection is installed
- \*\* if AUX tanks are installed

#### PREFLIGHT INTERIOR + EXTERIOR.

- 1 Check airplane documents
- Remove pitot cover
- 3 Check interior for foreign or loose objects
- Check circuit breakers
- Start key PULLED OUT
- Gear selector CHECKED DOWN
- 7 Electric Master ON Check battery voltage
- 8 Gear 3 greens CHECKED
- Check fuel quantity + temp
- 10 \*\*AUX PUMPS (2) ON if AUX FUEL E caution ON: AUX tank(s) empty AUX PUMPS (2) OFF
- 11 External lights ON
- 12 Parking Brake SET
- 13 Pitot heat ON
- 14 \* Check de-ice fluid quantity
- 15 \* Select de-ice pump 1
- 16 \* De-ice HIGH/MAX
- 17 \* Check DEIC PRES LO+HI out
- 18 \* Select de-ice pump 2
- 19 \* Check DEIC PRES LO+HI out
- 20 \* Ice lights ON
- 21 \* Check de-ice function
- 22 Check external lights
- 23 Check stall warning
- 24 Check pitot tube heat
- 25 Pitot heat OFF
- 26 External lights OFF
- 27 \* De-ice, ice lights OFF
- 28 Electric Master OFF

#### PREFLIGHT EXTERIOR

Canopy left side

#### Left main gear

Strut (min 4cm bare piston) & downlock

Tire condition, pressure (4,5 bar), position mark

Brake, hydraulic line

Gear door & linkage

### Left engine nacelle

Drain gascolator

3 air inlets / 2 air outlets

Spinner, propeller

Gearbox oil level

Engine oil level

Cowling

Nacelle underside

Venting pipe

Exhaust

\*\* Check AUX tank full ?

### Left wina

Vortex generators

Wing leading edge, top- and bottom surface

Tank drain

Stall warning

Tank air vent

Fuel filler cap

Pitot probe (cover removed)

Wing tip, position light

Static dischargers

Aileron (freedom of movement,

Page 2

hinges, control linkage, security)

Wing flap

Fuel cooler air in- & outlet

\*\* AUX tank vent

\*\* Drain AUX tank

### Left fuselage

Step

Rear cabin door

Fuselage left side

Static source

**Antennas** 

Elevator & rudder (freedom of movement, hinges) Elevator & rudder trim - tabs Tail skid & lower fin Static dischargers

#### Right fuselage

Fuselage right side Static source Rear window Step

### **Right wing**

Fuel cooler air in- & outlet

\*\* AUX tank vent

\*\* Drain AUX tank

Wing flap

Aileron (freedom of movement,
hinges, control linkage,
security)

Static dischargers

Wing tip, position light

Wing tip, position light
Wing leading edge, top- and
bottom surface
Fuel filler cap
Tank air vent
Tank drain
Cabin air vent inlet
Vortex generators

Canopy right side

#### Right engine nacelle

\*\* Check AUX tank full ?
3 air inlets / 2 air outlets
Spinner, propeller
Gearbox oil level
Engine oil level
Cowling
Nacelle underside
Venting pipe
Exhaust
Drain gascolator

Ventilation air inlet

#### Right main gear

Strut (min 4cm bare piston) & downlock
Tire condition, pressure (4,5 bar), position mark
Brake, hydraulic line
Gear door & linkage

#### Nose section

\* De-ice fluid tank
L + R front baggage door locked
OAT sensor
EPU connection
Landing / Taxi light

#### Nose gear

Strut (min 15cm bare piston) & lock
Tire condition, pressure (6 bar), position mark
Gear door & linkage

Chocks removed
Tow bar removed

### **CHECK BEFORE ENGINE START**

4	Doe di ale ale ale	4
1	Preflight check	1
2	Baggage and tow barSECURED	2
3	**AUX PUMPS (2)OFF	3
4	Fuel selectors (2) ON, safety guard closed	4
5	Power levers (2)IDLE	5
6	Parking brake SET	6
7	Alternate AirCLOSED	7
8	Fuel pumps (2) OFF	8
9	Manual gear extension handlePUSHED	9
10	Gear selectorDOWN	10
11	Avionic masterOFF	11
12	Electric masterOFF	12
13	Engine masters (2)OFF	13
14	Pitot heat OFF	14
15	Alternate static	15
16	Alternators (2)	16
17	VOTER switches (2)	17
18	All light switches OFF	18
19	Emergency switch OFF/GUARDED	19
20	ELT ARMED	20
21	Circuit breakers	21
22	Flap selectorUP	22

If starting with external power:

	a Prop areaCHECK CLEAR a	
	b External powerCONNECT b	
23	Electric masterON	23
24	Rudder pedalsADJUSTED	24
25	Flight controlsCHECKED	25
26	TrimsCHECKED	26
27	Gear warning + lights, fire detector TEST	27
28	* De-ice ANNUN TESTON	28
29	* DEICE LVL LO caution CHECKED ON if applic.	29
30	* Windshield de-icingPUMP 1 + 2 CHECKED	30

Checklist continued next page

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### **CHECK BEFORE ENGINE START continued**

31	Flaps full travel>LDG>UPCHECKED	31
32	Variable elevator stopCHECK	32
	Control stick AFT and HOLD	
	Power leversMAX Check stop limit decreasing	
	Power leversIDLE	
	Check stop limit increasing	
33	PassengersINSTRUCTED	33
34	Seat beltsFASTENED	34
35	Rear doorCLOSED and LATCHED	35
36	Front Canopy POS 1 or 2	36
37	G1000 POWERED, ACKNOWLEDGED	37
38	MFD EIS – FUEL	38
39	Fuel Quantity CHECKED, RESET/SET if requ.	39
40	Fuel temperatureCHECKED	40
41	Total time in service NOTED	41
42	MFDEIS – SYSTEM	42
43	* DEIC PRESS LO cautionCHECKED ON	43
44	* De-ice ANNUN TESTOFF	44
45	Start keyINSERTED	45
46	Power levers (2)IDLE	46
47	ACL (strobe)ON	47

End of Checklist

#### **ENGINE START PROCEDURE**

#### Normal sequence: first start LH engine

Engine Master	ON
Annunciations / Eng.Instr CHI	ECKED
Glow indication	OFF
Propeller area	CLEAR
Start key	START
Oil pressure OUTSIDE RED withir	a 3 sec
Voltage, Electrical load CHECK INDIC	
Annunciations / Eng.Instr	CHECK

If external power was used:

External power ......DISCONNECT

Start RH engine, procedure as above

### **CHECK AFTER ENGINE START**

1	Oil pressure	1
2	RPM 710 +/- 30	2
	Fuel pumps (2) check OFF	3
4	Fuel selectors (2)X-FEED	4
	Pitot heat ON, annunciation + Amps checked	5
6	Pitot heat OFF	6
7	Avionics master ON	7
8	WX radar (if installed)SBY	8

#### **FMS SETUP**

**I** nitialize profile (AUX 4, MAP)

F light plan

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R adios (COM, NAV, ADF, DME, CDI, BRG 1/2)

**P** erformance (speed bugs; Flight ID if applicable)

9 FMS setup ...... COMPLETED 9

#### **AUTOPILOT TEST**

DISCONN press, check electric trim not working AP ON, check annunciations and FD DISCONN press, check AP off GA button press, check FD commands climb FD off

	. =	
10	Autopilot test	10
11	Flood light CHECKED, ON as required	11
12	Position lights ON as required	12
13	Fuel Selectors (2)ON	13
14	Altimeters (2) SET	14
	Standby horizonCHECKED	
16	Transponder CODE / MODE CHECKED	16
17	Engine temperaturesCHECKED	17
18	Parking brakeRELEASED	18

Max power 50% until engine temperatures in green range
End of Checklist

#### **DURING TAXI**

Check Brakes Check nose wheel steering Check flight instruments

### **BEFORE TAKE OFF CHECK**

1	Parking brakeSET	1
2	Seat beltsFASTENED	2
3	Adjustable backrestUPRIGHT	3
4	Rear doorCLOSED + LATCHED	4
5	Front canopy	5
6	Front baggage doorsCHECKED CLOSED	6
7	Door warning lightOFF	7
8	Circuit breakers CHECKED	8
9	Electric elevator trim CHECKED, T/O SET	9
10	Fuel selectors (2)CHECKED ON	10
11	Rudder trimAS REQUIRED	11
12	Flaps Short field TKOF: APP Normal TKOF: UP	12
13	Flight controlsCHECKED	13
14	Power levers (2)IDLE	14
15	MFDEIS – SYSTEM	15
16	Engine instrumentsCHECKED	16
En	gine temperatures must be in green range before performing ECU	test.

(For gearbox min.38° recommended). For warm up max power 50%.

VOTER switches (2) ...... A, AUTO, B, AUTO 17

#### ECU TEST

ECU test buttons (2) ..... press and hold "L/R ECU A/B fail".....ON Props cycling "L/R ECU A/B fail".....OFF

	ECU test button release	
18	ECU test (2) PERFORMED	18
19	Pitot heatAS REQUIRED	19
20	* Ice protection	20
21	Transponder CODE / MODE CHECKED	21
22	Fuel pumps (2)ON	22
23	MFD EIS – DEFAULT	23
24	Parking brake	24

End of Checklist

#### LINE UP PROCEDURE

Landing light	ON
Approach sector	CLEAR
Runway	IDENTIFIED

Available power check (see pg.10)..... PERFORMED

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#### AFTER TAKE-OFF PROCEDURE

	Brakes	APPLY
	Gear	
	Alternate air: OPEN in rain, snow,	visible moisture
At safe altitude	: Flaps	UP
	Climb power	

### **CLIMB TO CRUISE CHECK**

1	Gear CHECKED UP	1
2	Flaps CHECKED UP	2
3	Fuel pumps (2)OFF	3
4	Climb power SET	4
	Alternate airAS REQUIRED	5
6	Landing light OFF	6

End of Checklist

### **DESCENT / APPROACH CHECK**

1	Landing data RECEIVED	1
2	Altimeters (2) SET	2
	COM / NAV / FMSSET	3
4	Safety harnessesFASTENED	4
5	Adjustable backrestsUPRIGHT	5
6	Parking brake CHECKED RELEASED	6
7	Rudder trimAS REQUIRED	7
8	Gear warning + lights TEST	8
9	Landing lightON	9

→ Normal Approach:

10	Fuel selectors (2)CHECKED ON	10
11	Fuel pumps (2)ON	11

End of Checklist

### 1 engine out Approach:

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10	Fuel selector (good engine)CHECKED ON	10
11	Fuel pumps (good engine)ON	11

End of Checklist

### **FINAL CHECK**

1	Flaps LDG	1
2	Gear 3 GREENS CHECKED	2
3	Rudder trim NEUTRAL	3

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#### GO AROUND PROCEDURE

Power	MAX
Flaps	APP
Positive rate of climb:	
Gear	UP
Flaps	UP
Continue with take-off profile	
At safe altitude:	
Climb power	92%

### **AFTER LANDING CHECK**

When clear of runway

1	Alternate air CLOSED	1
2	Pitot heatOFF	2
3	FlapsUP	3
	Fuel pumps (2)OFF	4
	* De-ice systemsOFF	5
	Landing/Taxi lightAS REQUIRED	6

### End of Checklist

### **PARKING CHECK**

1	Parking brakeSET	1
2	Power levers (2) max 10% for 1 min.	2
3	ELT CHECK not activated	3
4	Engine / System pageCHECKED	4
5	Engine / Fuel page TTL TIME IN SVC NOTED	5
6	Avionic masterOFF	6
7	Electrical consumers except ACL (strobe) OFF	7
8	Engine Masters (2) OFF	8
9	ACL (strobe)OFF	9

### When engine indications x-ed out red:

10	Electric MasterOFF	10
	Interior lightCHECKED OFF	
12	Start key REMOVED	12

#### End of Checklist

#### SECURING THE AIRCRAFT

Release parking brake, use chocks. Cover the pitot probe. Attach tie down ropes to mooring points.

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nond Flight Training	Page 9
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#### All masses and speeds are for ACFT without increase of MTOM, MZFM, MLM "NG" "NG" "Dash-6" "Dash-6" STALLING SPEEDS KIAS for MTOM 1900 kg (V<sub>S0</sub>) Flaps LDG, gear down 62 62 (V<sub>S</sub>) Flaps APP, gear down 66 65 (V<sub>S</sub>) clean, gear up 69 68 In Ice: + 4-6 KIAS **OPERATING SPEEDS KIAS for MTOM 1900 kg** Min. control speed Flaps UP 76 71 Short field TKOF Flaps APP with flaps APP $(V_{MCA})$ 73 68 80 76 Rotation speed 76 Best angle of climb (Vx) 82 Best rate of climb (V<sub>Y</sub>) 90 85 Best rate of climb 1-eng. (Vyse) 85 Operating speed in ice 118 - 156 Max. flap speed (V<sub>FE</sub>) Flaps APP 133 Max. flap speed (V<sub>FE</sub>) Flaps LDG 113 Max. LG extension (V<sub>LOE</sub>) 188 Max. LG extended (V<sub>LE</sub>) 188 Max. LG retraction (VLOR) 152 Approach V<sub>REF</sub> Flaps UP 86 in ice: 94 Approach V<sub>REF</sub> Flaps APP 84 in ice: 90 Approach V<sub>REF</sub> Flaps LDG 84 in ice: prohib. Min. Go-around speed Flaps UP 90 Max. cruising speed (V<sub>NO</sub>) 151 188 Never exceed speed (V<sub>NE</sub>) up to 1700 kg 1800 kg 1900 kg Manoeuvring speed (V<sub>o</sub>) 119 122 **MASS** Max. TKOF mass 1900 kg Max ZF mass 1765 kg Max. LDG mass 1805 kg

#### **Available Power Check:**

1450 kg

30 kg

45 kg

18 ka

45 kg

10 sec. power MAX, RPM 2250 - 2300, min. load acc. table below

	OAT								
Altitude [ft]	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C
0		99%				97%	96%	93%	91%
2000						97%	96%	93%	
4000						97%	96%	93%	
6000					97%	96%	93%		
8000		98% 98% 98%				96%	95%	92%	
10000	98%	97%	97%	95%	94%	92%	89%		

Empty mass

Max. baggage in NOSE

Max. baggage in COCKPIT

Max. baggage in rear EXTENSION

### DA42 NG

### IMPORTANT DATA AND LIMITATIONS

Short field TKOF with flaps APP

85

74 77

76

All masses and speeds are for ACFT with increased MTOM, MZFM, MLM

All masses and specas are for Acrif with increased MTOM, MZTM, MEM							
	"NG"	"Dash-6"	"NG"	"Dash-6"			
STALLING SPEEDS KIAS	for MTOM 1	999 kg					
(V <sub>S0</sub> ) Flaps LDG, gear down	64	64					
(V <sub>S</sub> ) Flaps APP, gear down	68	68					
(V <sub>S</sub> ) clean, gear up	72	72					
In Ice: + 4-6							

OPERATING SPEEDS KIAS for MTOM 1999 kg					
Min. control speed F	laps UP	7	6	71	
(V <sub>MCA</sub> ) Fla	aps APP	7.	3	68	
Rotation speed		8	0	76	
Best angle of climb $(V_X)$			-		
Best rate of climb (V <sub>Y</sub> )			92	2	
Best rate of climb 1-eng.	(V <sub>YSE</sub> )		85	5	
Operating speed in ice			118 -	156	
Max. flap speed (V <sub>FE</sub> ) Fla	ps APP		13	3	
Max. flap speed (V <sub>FE</sub> ) Fla	ps LDG	113			
Max. LG extension (V <sub>LOE</sub> )		188			
Max. LG extended $(V_{LE})$		188			
Max. LG retraction $(V_{LOR})$			15	2	
Approach V <sub>REF</sub> Flaps UP		92	in ice	: 97	
Approach V <sub>REF</sub> Flaps APP		88	in ice	: 93	
Approach V <sub>REF</sub> Flaps LDG		86 in ice: prohib.			
Min. Go-around speed Fla	92				
Max. cruising speed ( $V_{NO}$	151				
Never exceed speed ( $V_{\text{NE}}$		18	8		
up to		(g 18	00 kg		
Manoeuvring speed (V <sub>o</sub> )	112		119	122	

MASS				
Max. TKOF mass	1999 kg			
Max ZF mass	1835 kg			
Max. LDG mass	1999 kg	Ice: 1	900	kg
Empty mass	1450 kg			\\T
Max. baggage in NOSE	30 kg			"Ice
Max. baggage in COCKPIT	45 kg	45 kg		and
Max. baggage in rear EXTENSION	18 kg	45 Kg		cond
			٠ ا	

"Ice": Ice accumulation and/or icing conditions

#### **Available Power Check:**

10 sec. power MAX, RPM 2250 - 2300, min. load acc. table below

10 360.	10 Sec. power MAX, KFM 2230 - 2300, Mill. load acc. table below								
		OAT							
Altitude [ft]	Altitude [ft] -35°C -20°C -10°C 0°C 10°C				20°C	30°C	40°C	50°C	
0					97%	96%	93%	91%	
2000		99%				97%	96%	93%	
4000						97%	96%	93%	
6000						97%	96%	93%	
8000		98% 98% 98%			96%	95%	92%		
10000	98%	97%	97%	95%	94%	92%	89%		

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### FMS Intitialization – AUX 4 page Recommended and compulsory settings

TIME FORMAT	UTC
NAV ANGLE	MAGNETIC
DIS. SPD	NAUTICAL
ALT. VS	FEET
TEMP	CELSIUS
FUEL	GALLONS
POSITION	HDDD°MM.MM′
AIRSPACE ALERTS	As desired
ARRIVAL ALERT	As desired
VOICE	As desired

MFD DATA BAR FIELDS	1 GS
	2 DIS
	3 ETE
	4 TRK
GPS C	DI
SELECTED	AUTO
COM CHANNEL SPACING	25,0 KHZ
NEAREST	APT
RWY SURFACE	As desired
MIN LENGTH	As desired

Compulsory:

### **ARINC 424 Distance Coding:**

Α	В	С	D	Е
1	2	3	4	5
F	G	Н	ı	J
6	7	8	9	10
K	L	M	Ν	0
11	12	13	14	15
Р	Q	R	S	Т
16	17	18	19	20
U	V	W	X	Υ
21	22	23	24	25

# **EMERGENCY + ABNORMAL CHECKLIST**

For conditions to use this Emergency + Abnormal Checklist see page 1 of the Normal Checklist.

All such conditions are fully applicable also for this checklist.



2 engi	nes out landingpage 2
G1000	Warningspage 3
<u>Engine</u>	2
	Engine fire / failure during take-offpage 6
	Engine fire / failure in flightpage 6
	Engine troubleshootingpage 7
	Engine restartpage 8
	Oscillating RPMpage 9
	RPM overspeedpage 9
<u>Landin</u>	<u>g Gear</u>
	Landing with defective main gear tirepage 9
	Landing with defective brakespage 9
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	Manual extension of landing gearpage 10
	Landing gear up landingpage 10
Smoke	e and fire
	Engine fire on groundpage 11
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	Electrical fire in flightpage 11
	If Oxygen System is installed
	Cabin smoke, cabin fire, loss of oxygen pressure
	above 10.000 ftpage 12
<u>Other</u>	<u>Emergencies</u>
	Oxygen pressure loss above 10.000 ft page 12
	Emergency descent page 12
	Suspicion of carbon monoxidepage 12
	Unintentional flight into icing, Inadvertent icing
	encounter & excessive ice accumulation page 13
	Ice protection failurepage 13
Electri	<u>cal System</u>
	Complete electrical failure page 13

1	Mayday callCONSIDER	1
2	Engine masters (2) OFF	2
3	Alternators (2) OFF	3
4	Fuel pumps (2) OFF	4
5	Fuel selectors (2) OFF	5
6	Avionic master OFF	6
7	Safety harnesses FASTENED and TIGHT	7
	When sure of making landing area:	
8	Flaps APP or LDG, as required	8
8 9	Flaps APP or LDG, as required Approach speed min 84 KIAS	8 9
		9
9 10	Approach speed min 84 KIAS	9
9 10	Approach speed min 84 KIAS  Power levers (2) IDLE 1	9
9 10 ••→•(	Approach speed min 84 KIAS  Power levers (2) IDLE 1  Gear UP landing	9
9 10 <b>*→</b> (	Approach speed min 84 KIAS  Power levers (2) IDLE 1  Gear UP landing  After touchdown:	9
9 10 <b>*→</b> (	Approach speed min 84 KIAS  Power levers (2) IDLE 1  Gear UP landing  After touchdown:  Electric master OFF 1	9
9 10 <b>*→</b> (	Approach speed min 84 KIAS  Power levers (2) IDLE 1  Gear UP landing  After touchdown:  Electric master OFF 1  Gear DOWN landing	9 .0 .1

**ENGINES OUT LANDING** 

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#### **EMERGENCY PROCEDURES**

### **G1000 WARNINGS**

L/R OIL PRES	Pg. 3	Oil pressure low (red range)
L/R OIL TEMP	Pg. 3	Oil temperature high (red range)
L/R GBOX TEMP	Pg. 4	Gearbox temperature high (red range)
L/R ENG TEMP	Pg. 4	Coolant temperature high (red range)
L/R FUEL TEMP	Pg. 4	Fuel temperature high (red range)
L/R FUEL PRES	Pg. 5	Fuel pressure low
L/R ALTN AMPS	Pg. 5	High Current (red range)
L/R STARTER	Pg. 5	Starter not disengaging
DOOR OPEN	Pg. 5	Unlocked doors
L/R ENG FIRE	Pg. 6 Pg. 6 Pg. 11	Engine fail/fire during take-off Engine fail/fire in flight Engine fire on ground

For other parameters "out of green range" see Abnormal Checklist

Abnormal Checklist starts at page 14

### L/R OIL PRES

OIL PRESSURE LOW

- Reduce power on affected engine
- Be prepared for loss of oil and an engine failure; land at nearest suitable airfield

### L/R OIL TEMP

**OIL TEMPERATURE HIGH** 

- Check oil pressure
  - → If oil pressure too low (outside green range):
    - $\Rightarrow$  Reduce power on affected engine
    - $\Rightarrow$  Expect loss of engine oil
    - $\Rightarrow$  Be prepared for an engine failure
  - If oil pressure in green range
    - $\Rightarrow$  Reduce power on affected engine
    - ⇒ Increase airspeed
      - If oil temperature not returning to green range:
        - ⇒ Be prepared for an engine failure; land at nearest suitable airfield

### L/R GBOX TEMP

GEARBOX TEMPERATURE HIGH

- > Reduce power on affected engine
- Increase airspeed

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- If gearbox temperature still in red range:
  - ⇒ Land at nearest suitable airfield
  - ⇒ Be prepared for an engine failure

### L/R ENG TEMP

**COOLANT TEMPERATURE HIGH** 

Check G1000 for LOW COOL LVL caution light

→ If LOW COOL LVL caution light OFF

♦→ During climb:

- ⇒ Reduce power on affected engine by 10% or more as required
- ⇒ Increase airspeed by 10 KIAS or more as required
- If coolant temp. not returning to green range within 60":
  - ⇒ reduce power on affected engine as much as possible and increase airspeed
- During cruise:
- ⇒ Reduce power on affected engine
- ⇒ Increase airspeed
- If coolant temp. not returning to green range:
  - ⇒ Be prepared for an engine failure; land at nearest suitable airfield

If LOW COOL LVL caution light ON

- ⇒ Reduce power on affected engine
- ⇒ Expect loss of coolant fluid
- ⇒ Be prepared for an engine failure

### L/R FUEL TEMP

**FUEL TEMPERATURE HIGH** 

- > Reduce power on affected engine
- Increase airspeed
- Transfer fuel from AUX to MAIN tank if applicable
  - If not returning to green range:
    - ⇒ Land at nearest suitable airfield

#### **EMERGENCY PROCEDURES**

### L/R FUEL PRES

### **FUEL PRESSURE LOW**

- Check fuel quantity
- FUEL SELECTOR of affected engine: check ON
- FUEL PUMPS of affected engine: ON
  - If warning remains:
    - ⇒ FUEL PUMPS of affected engine: OFF
    - ⇒ FUEL SELECTOR of affected engine: CROSSFEED
      - If warning still remains:
        - ⇒ Be prepared for an engine failure

### ./R ALTN AMPS

#### **HIGH CURRENT**

- Check circuit breakers
- Reduce electrical load and land at nearest suitable airfield

### /R STARTER

#### STARTER NOT DISENGAGING

- Affected power lever IDLE
- Affected engine master OFF
- Electric master OFF

### **DOOR OPEN**

#### UNLOCKED DOORS

- Reduce airspeed immediately
- Check canopy visually
  - If open:
    - ⇒ airspeed below 140 KIAS, land at nearest suitable airfield
- Check rear door visually
  - If open:
    - ⇒ airspeed below 140 KIAS, land at nearest suitable airfield
    - ⇒ do not try to lock door in flight
- Check front baggage doors visually
  - If one or both open:
    - ⇒ reduce airspeed to keep door(s) in stable position, land at nearest suitable airfield

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### **ENGINE FAILURE ENGINE FIRE**

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#### **DURING TAKE-OFF**

### REJECTED TAKE-OFF OR EMERGENCY RE-LANDING

1	Power OFF	1
2	Brakes APPLY	2
3	ATCINFORM	3
	If necessary:	
4	Engine Masters (2) OFF	4
	Fuel selectors (2) OFF	
6	Electric Master OFF	6
	In case of fire:	
7	Cabin heat & defrost OFF	7

### **ENGINE FAILURE ENGINE FIRE**

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IN FLIGHT

### If airspeed below Vmca:

Perform Vmc recovery procedure

### Airspeed above Vmca: 1 Power ...... INCREASE up to MAX 2 Airspeed.....min Vyse 85 KIAS

3 Landing gear ...... UP 3 Flaps ......UP

Power lever (affected engine)..REDUCE TO VERIFY 5 Engine Master (affected engine) ...... OFF 6

Above safe altitude

7 Power (life engine) ..... up to MAX CONTINUOUS Alternator (dead engine) ...... OFF 8

9 Fuel pumps (dead engine) ...... OFF 9

10 Fuel selector (dead engine)...... OFF 10

In case of fire: 11 Cabin heat & defrost ...... OFF 11

12 Canopy ...... UNLATCH if necessary 12

Max airspeed 117 KIAS

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ENGINE FAILURE IN FLIGHT, IAND ASAP End of Checklist

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**ENGINE RESTART** 

Reason for shutdown must be ascertained

18.000 ft PA for immediate restart

(only possible if unfeathering accumulator is installed)

10.000 ft PA for restart within 2 minutes

Airspeed ...... min 125 KIAS - max 145 KIAS

Airspeed ......max 100 KIAS

1 Power (affected engine) ...... IDLE 1 2 Fuel selector (affected engine) ......ON 3 Alternate air ...... AS REQUIRED 4 Alternator (affected engine).....ON 5 Engine Master (affected engine) ......ON 5

For restart with starter motor: 6 Starter.....ENGAGE when prop stationary 6 7 Circuit breakers.......CHECK/RESET if necessary 7

Power (affected engine) ...... MODERATE 8 Engine instruments......check GREEN RANGE 9

If engine started:

or prop stationary, whichever is lower

If engine shut down for more than 2 minutes

Maximum restart altitude:

NO restart:

♦> Windmilling restart

**Restart with starter motor:** 

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•+	Ιf		
		L or R	
		ECU A AND B FAIL and ALL of the following conditions ex	xist:
	ı	simultaneously  o indicated LOAD unchanged o perceived thrust is reduced	
		• engine noise level changes or e	ngine
		running rough	
	1	POWER lever IDLE for 1 second	1
	2	POWER lever slowly increase to 1975 RPM	2
		If engine shows power loss during the  BOWER Lavar in the second of	
	2	POWER lever increase	2
	3 4	POWER leveridle for 1 second	3 4
	4	POWER leverslowly increase stop prior to the RPM where former engine power to	•
		was observed	)33
		not increase the POWER lever past the propeller speed of 1975 RPM	
		ting determined in step 4. An increase of engine power beyond this s ds into another power loss.	etting
		ns into another power loss. h this power setting the engine can provide up to 65% at the maxim	um
		peller speed of 1975 RPM	_
		Land at nearest suitable airfield	5
•		herwise:	
	1 2	Power lever (good engine). INCREASE up to MAX	1 2
	2	• If engine OK: continue, land ASAP End of Checklist	2
	3	VOTER switch SWAP between A and B	3
	5	If engine OK: continue, land ASAP End of Checklist	3
	4	VOTER switch	4
	•	If engine OK: continue, land ASAP End of Checklist	•
	5	Fuel pumps (affected engine)	5
	6	Fuel selector (affected engine) CROSSFEED	6
		If engine OK: continue, End of Checklist	
	7	Fuel selector (affected engine)ON or CROSSFEED	7
	8	Alternate air OPEN	8
		• If engine OK: land as soon as practicable End of Check	klist
		<ul> <li>If engine still not OK: Be prepared for</li> </ul>	
		ENGINE FAILURE IN FLIGHT, land ASAP End of Checklis	st

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### **OSCILLATING RPM**

1	Power lever change setting	1
	<ul><li>If no success:</li></ul>	
	Check G1000 for ECU FAIL caution	
	<ul> <li>If ECU FAIL caution indicated:</li> </ul>	
2	VOTER switchunaffected ECU	2
	If no success:	
3	VOTER switch AUTO	3
	Land at nearest suitable airfield	

### RPM OVERSPEED

1 Power setting REDUCE	1
<ul><li>If no success:</li></ul>	
Check G1000 for ECU FAIL caution	
<ul><li>If ECU FAIL caution indicated:</li></ul>	
2 VOTER switchunaffected ECU	2
<ul><li>If no success:</li></ul>	
3 VOTER switch AUTO	3
Land at nearest suitable airfield	
Be prepared for ENGINE FAILURE IN FLIGHT	

### LANDING WITH DEFECTIVE MAIN GEAR TIRE

1 ATC.....INFORMED 1 For landing: Land on RWY side with "good" tire Keep wing on "good" side low Support directional control with brake

### LANDING WITH DEFECTIVE BRAKES

	After touchdown (if necessary):	
1	Engine Masters (2) OFF	1
2	Fuel selectors (2) OFF	2
3	Electric Master OFF	3

	LANDING GEAR UNSAFE WARNING	
	If on for more than 20 seconds:	
1	Airspeedmax 152 KIAS In cold temperature:	1
2	Airspeedmax 110 KIAS	2
3	Gear selector	3
	❖→If landing gear extension unsuccessful: Continue with MANUAL EXTENSION	
	❖ If landing gear <b>retraction</b> unsuccessful:	
	Consider flight with landing gear down	
	MANUAL EVERNOTON OF LANDING OF A	
	MANUAL EXTENSION OF LANDING GEAR	
1	Airspeedmax 152 KIAS	1
2	Gear indicator lightsTEST Electric masterCHECK ON	2
4	Bus voltage CHECK NORMAL	3 4
5	Circuit breaker CHECK	5
6	Gear selector DOWN	6
7	Manual extension handlePULL	7
8	If necessary Airspeedmax 110 KIAS	8
	Apply moderate yawing	
9	Gear indicator lights CHECK 3 GREENS	9
	LANDING CEAR UP LANDING	
	LANDING GEAR UP LANDING	
4	(Landing gear completely retracted)	
1	ApproachNORMAL  If time/situation allows: just before touchdown:	1
2	Power lever IDLE	2
3	Engine Masters (2)	3

Fuel pumps (2) ...... OFF 5 Fuel selectors (2) ...... OFF 5 Immediately after touchdown: Electric Master ...... OFF 6

# ENGINE FIRE ON GROUND

1	Power levers (2)IDLE	1
2	Engine masters (2) OFF	2
3	Fuel selectors (2) OFF	3
4	Mayday callCONSIDER	4
5	Electric master OFF	5
	When engine and aircraft stopped:	
6	Canopy OPEN	6
	Evacuate	

### **ELECTRICAL FIRE ON GROUND**

1	Mayday callCONSIDER	1
2	Electric Master OFF	2
3	Power levers (2)	3
4	Engine Masters (2) OFF	4
5	Fuel selectors (2) OFF	5
When engine and aircraft stopped:		
6	Canopy OPEN	6
	Evacuate	

### **ELECTRICAL FIRE IN FLIGHT**

1	Emergency switchON	1
2	Mayday callCONSIDER	2
3	Avionic master OFF	3
4	Electric master OFF	4
5	Cabin heat & defrost OFF	5
6	Emergency windows OPEN as necessary	6
7	Canopy UNLATCH if necessary	7
	Max airspeed 117 KIAS	

Land at nearest suitable airfield

DA42 NG **EMERGENCY PROCEDURES** 

### **CABIN SMOKE ABOVE 10.000 FT** 1 Oxygen ...... CHECK ON 1 2 Emergency descent ...... INITIATE 2 When passing 10.000 ft 3 Oxygen...... OFF 3 Land at nearest suitable airfield System is installed **CABIN FIRE ABOVE 10.000 FT** 1 Oxygen.....PUSH OFF 2 Emergency descent ......INTITIATE 2 Land at nearest suitable airfield Oxygen **OXYGEN PRESSURE LOSS ABOVE 10.000 FT** 1 Oxygen......PUSH OFF 2 Oxygen pressure ...... CHECKED, note down 2 3 Emergency descent ...... INTIATE When passing 10.000 FT: 4 Oxygen pressure ...... CHECK AGAIN 4 ❖→ If oxygen pressure constant:..... Continue flight ❖ If oxygen pressure dropped: ....Land at nearest suitable airfield

### **EMERGENCY DESCENT**

	FlapsUP	1
2	Landing GearDOWN	2
3	Power leversIDLE	3
4	Airspeed AS REQUIRED	4
	SUSPICION OF CARBON MONOXIDE	
	SUSFICION OF CARDON MONOXIDE	
1	Cabin heat & defrost OFF	1
	Cabin heat & defrost OFF	1 2
2	Cabin heat & defrost OFF Ventilation OPEN	

Push up and lock in cooling gap position

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### UNINTENTIONAL FLIGHT INTO ICING

Leave icing area, continue with item 1

# \* INADVERTENT ICING ENCOUNTER & EXCESSIVE ICE ACCUMULATION

1	De-ice systemHIGH +MAX	1
2	Pitot heatON	2
3	Cabin heat & defrostON	3
4	Alternate air OPEN	4
5	Windshield de-ice USE AS APPROPRIATE	5
6	Emergency windowsOPEN as required	6

 \* When de-ice system does not work properly: Continue with ICE PROTECTION FAILURE

### \* ICE PROTECTION FAILURE

1	Airspeed118 to 156 KIAS until final	1
2	Flapslimited to APP position	2
3	Approach with residual icemin 90/93 KIAS	3
4	Landing distance flaps LDG value + 20%	4

### **COMPLETE ELECTRICAL FAILURE**

\* Leave icing area

1	Circuit breakersCHECK all IN	1
	<ul><li>If no success:</li></ul>	
2	- 3 7	2
3	Flood light, if necessaryON	3
4	Power SET	4
	according power lever position and/or engine noise	
5	FlapsVERIFY POSITION	5
	Land at nearest suitable airfield	
	Landing gear may slowly extend	
	For landing apply "Manual extension of landing gear"	

# **G1000 CAUTION LIGHTS**

L/R FUEL LOW	Page 14	Main tank fuel qty low
L/R AUX FUEL E	Page 14	L/R auxiliary fuel tank empty
L/R ECU A FAIL	Page 15	Fault in ECU A
L/R ECU B FAIL	Page 15	Fault in ECU B
L/R VOLTS LOW	Page 16	Bus voltage too low
L/R ALTN FAIL	Page 16	Alternator failed
L+R ALTN FAIL	Page 16	Both Alternators failed
STICK LIMIT	Page 16	Stick limiting system failed
L/R COOL LVL	Page 17	Engine coolant level low
PITOT FAIL	Page 17	Pitot heating system failed
PITOT HT OFF	Page 17	Pitot heating system OFF
STALL HT FAIL	Page 17	Stall warning heating failed
STALL HT OFF	Page 17	Stall warning heating OFF
DEICE LVL LO	Page 17	De-icing fluid level low
DEIC PRES LO	Page 17	De-icing pressure low
DEIC PRES HI	Page 17	De-icing pressure high

### **Engine instrument indications outside of green range**

COOLANT temperature high/low page 18	
OIL temperature high/lowpage 18	
OIL pressure high/lowpage 18	
FUEL temperature high/lowpage 18	
<i>VOLT lowpage 19</i>	
RPM high page 19	

#### **Other abnormal situations**

Hydraulic pump fail or continuous ops... page 19
AUX fuel transfer fail ......page 19

### L/R FUEL LOW

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### MAIN TANK FUEL QTY LOW

- > Check fuel quantity
- > Avoid uncoordinated flight
- If LH & RH quantities show remarkable difference:
  - ⇒ Expect loss of fuel on side with lower indicaton
  - ⇒ Check fuel pumps OFF
  - ⇒ Use x-feed: Fuel selector to x-feed on side with LOW FUEL indication

### L/R AUX FUEL E

### **AUXILIARY FUEL TANK EMPTY**

⇒ L/R auxiliary fuel pump OFF

### L/R ECU A or B FAIL

### ON GROUND

1 VOTER switchcheck AUTO 2 Other ECU cautioncheck OFF	1 2	
Clearing procedure:		
3 VOTER switchset to failed ECU	3	
Wait 5 seconds		
4 Voter switch AUTO	4	

• If ECU caution persists termimate flight preparation

### L/R ECU A or B FAIL

### **DURING FLIGHT**

Remark: in case of ECU fail the system automatically switches to the other ECU 1 Alternate Air.....OPEN 2 Fuel pumps LH/RH......ON 3 Circuit breakers ...... CHECK/RESET if necessary 4 VOTER switch ......check AUTO

• If ECU caution persists:

⇒ ECU caution clearing procedure may be used:

BUT: In case of negative 1-eng climb rate only if a suitable landing site is available within gliding distance. Be prepared for loss of engine power.

5	Safe altitudeCHECK	5
6	Airspeed 85 KIAS	6
7	Flapscheck UP	7
8	Landing gearcheck UP	8
9	Other ECU caution check OFF	9
10	VOTER switch set to failed ECU	10
Wait 5 seconds		

11 Voter switch .......AUTO 11

• If ECU caution persists:

- Land at nearest suitable airfield
- If additional engine problems are observed:
  - Go to Emergency Checklist page 4 **ENGINE TROUBLESHOOTING**

# L OR R

## **ECU A FAIL and ECU B FAIL SIMULTANEOUSLY**

Go to Emergency Ckl page 4 ENGINE TROUBLESHOOTING

L/R VOLTS LOW

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**BUS VOLTAGE TOO LOW** 

Remark: possible reasons are

- fault in the electrical power supply
- Alternators OFF
  - Continue with "Engine instrument indications outside of green range" - VOLTS low, page 19

### L/R ALTN FAIL

#### **ALTERNATOR FAILED**

- If in icing conditions:
  - ⇒ Leave icing area as soon as practicable
- Alternator on affected side OFF
- Monitor bus voltage
- Reduce electrical consumers
  - If both alternators failed:
    - ⇒ See Abnormal Checklist "Both Alternators failed", ♥

### L ALTN FAIL +

#### **BOTH ALTERNATORS FAILED**

### R ALTN FAIL

Reduce all electrical equipment to a minimum:

- Avionic Master: OFF
- > LH/RH Alternator: OFF
- > Transponder: STBY
- > Gear: DOWN
- When down and locked:
  - ⇒ Pull manual gear extension handle
  - > Stall/Pitot heat: OFF
  - All lights:OFF
    - **Expect battery power to last for 30 minutes**
    - Expect engine stoppage after this time
      - ⇒ Land ASAP

### STICK LIMIT

### VARIABLE ELEVATOR STOP

SYSTEM FAILED

- ♦→1 or 2 power levers set for MORE than 20% load:
  - ⇒ Elevator variable stop is INOP
  - Do not stall in any configuration!
- 2 power levers set for LESS than 20% load:
  - **Elevator variable stop always ACTIVE**
  - Reduced elevator capacity
  - ⇒ For approach min VREF 86 KIAS

### L/R COOL LVL

#### **ENGINE COOLANT LEVEL LOW**

- Monitor annunciations / engine instruments
- > Check coolant temperature
- > See "Engine instrument indications outside of green range" -**COOLANT TEMPERATURE**

### PITOT FAIL

### PITOT HT OFF

### STALL HT FAIL

### STALL HT OFF

- > check pitot heat ON, if in icing conditions
- $\Rightarrow$  expect loss of airspeed indication

- ⇒ expect loss of aural stall warning
- > leave area with icing conditions (see Emergency Checklist page 13, "Unintentional flight into icing")

### **DEICE LVL LO**

#### **DE-ICING FLUIS LEVEL LOW**

> Maximum duration of ice protection in NORMAL mode: 45 min, in HIGH mode: 22 min

### **DEIC PRES LO**

#### **DE-ICING PRESSURE LOW**

- > Switch DE-ICE to HIGH →If DEIC PRES LO light still ON
  - ⇒ PUMP1 / PUMP2: select other pump
  - ⇒ If necessary prime pump by activating windshield pump
    - →If DEIC PRES LO light still ON
      - ⇒ Activate ALTERNATE switch
        - ⇒→If DEIC PRES LO light still ON
      - ⇒ Gb to Emergency Checklist page 13 I¢E PROTECTION FAILURE
        - If DEIC PRES LO light OFF
      - ⇒ Continue flight
        - (de-icing fluid flow: 30 lt/hr)
      - ⇒ Monitor ice protection system operation
      - ⇒ Check de-icing fluid level periodically

### **DEIC PRES HI**

#### **DE-ICING PRESSURE HIGH**

- > Possible reduced system performance
- > Filter cartridge to be replaced at next scheduled maintenance

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### **ENGINE INSTRUMENT INDICATIONS OUTSIDE OF GREEN RANGE**

#### **COOLANT temperature high**

Refer to Emergency Checklist page 4, "L/R ENG TEMP"

\_\_\_\_\_

#### **COOLANT temperature low**

Remark: During low power descent from high altitude coolant temperature may decrease. Consider increasing power.

- > Check G1000 for LOW COOLANT LVL caution light
- If "LOW COOLANT LVL caution light" ON
  - Reduce power on affected engine
  - **Expect loss of coolant fluid**
  - Be prepared for an engine failure

#### OIL temperature high

Refer to Emergency Checklist page 3, "L/R OIL TEMP"

#### OIL temperature low

- > Increase power
- > Reduce airspeed

#### **OIL pressure high**

- ♦→ On ground during warm up with low oil temperature
  - > Reduce power until oil press. green, continue warm up at reduced power
- **During flight**

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- Check oil temperature
- **Check coolant temperature** 
  - → If temperatures within green range
    - ⇒ Oil press. indication may be faulty; watch temperatures
    - If temperatures outside of green range
    - Reduce power on affected engine; Land at nearest suitable airfield, be prepared for engine fail

### OIL pressure low

Refer to Emergency Checklist page 3, "L/R OIL PRES"

### **FUEL temperature high**

Refer to Emergency Checklist page 4, "L/R FUEL TEMP"

### **FUEL temperature low**

- > Increase power on affected engine
- > Reduce airspeed
- If not returning to green range:
  - ⇒ Be prepared for an engine faiure; land at nearest suitable airfield

### **VOLTS low**

- ♦→On ground:
  - ⇒ Check alternators ON
  - ⇒ Check circuit breakers
    - If LOW VOLTS CAUTION still indicated on the G1000:
      - ⇒ Discontinue operation; terminate flight preparation
- In flight:
  - ⇒ Check alternators ON
  - ⇒ Check circuit breakers
  - ⇒ Switch off unnecessary electrical equipment
    - If LOW VOLTS CAUTION still indicated on the G1000:
      - ⇒ Apply L/R ALTN FAIL caution procedure, page 16

#### RPM high

- > Reduce power on affected engine
- > Keep RPM in green range with appropriate power lever setting
- If problem not solved:
  - ⇒ Refer to Emergency Checklist page 9 "RPM overspeed"
  - ⇒ Land at nearest suitable airfield

### **OTHER ABNORMAL SITUATIONS**

### Hydraulic pump: failure or continuous operation

- > Check gear indication lights
- > Prepare for manual landing gear extension

### L/R Auxiliary fuel XFER FAIL

- Both AUX PUMPS: OFF
- > Check fuel pumps OFF
- > Check fuel quantity
- > Use X-feed to keep main tank fuel unbalance within 1 USG
- > Switch remaining AUX PUMP ON
- > Use X-feed to keep main tank fuel unbalance within 1 USG
- > Amend flight plan to allow for reduced amount of available fuel