

Checklist for Diamond DA42 NG / -VI

Edition #: **20.1 NG / -VI** Edition date: **15.05.2020**

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 # 20.1 are on page 2 of this document

Checklist DA42 NG / -VI - LEP

Page	Following Edition Date (or any higher) is valid
Section : Normal Checklist	
1	15.2 15.12.2011
2	17 01.03.2015
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5	17.4 15.04.2017
6	17 01.03.2015
7	17.1 01.10.2015
8	17.2 15.03.2016
9	17.3 15.03.2017
10	19.1 15.02.2019
11	16.5 01.08.2014

Section: Emergency Checklist		
1	18	15.12.2017
2	18	15.12.2017
3	18	15.12.2017
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10	18	15.12.2017
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13	18	15.12.2017
14	18	15.12.2017
Section: Abnormal Checklist		
15	18	15.12.2017
16	18.1	15.03.2018
17	18	15.12.2017
18	19.1	15.02.2019
19	18	15.12.2017
20	19.1	15.02.2019

Comments explaining Edition # 18

Normal Procedures:

No change

Emergency Procedures:

Pages rearranged and renumbered

Major changes:

Page 5: L/R STARTER
Pages 6/7: Engine Fire
Page 9: Engine Restart

Abnormal Procedures:

Pages renumbered

Comments explaining Edition # 18.1

Normal Procedures:

No change

Emergency Procedures:

Page 9: Engine Restart speeds corrected

Abnormal Procedures:

Pages 16, 18, 20: Editorial correction

Comments explaining Edition # 19.1

Normal Procedures:

Page 10: (V_{YSE}) – "In Ice" speeds added
Page 10: Min Flight Mass - Editorial correction

Emergency Procedures:

Editorial correction

Abnormal Procedures:

Editorial correction

Comments explaining Edition # 20.1

Order Change – Emergency / Abnormal Checklist

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.

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
- 2 Remove pitot cover
- 3 Check interior for foreign or loose objects
- 4 Check circuit breakers
- 5 Start key PULLED OUT
- 6 Gear selector CHECKED DOWN
- 7 Electric Master ON
Check battery voltage
- 8 Gear 3 greens CHECKED
- 9 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 wing

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, 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

Tail

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 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

1	Preflight check.....	COMPLETED	1
2	Baggage and tow bar.....	SECURED	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 Air	CLOSED	7
8	Fuel pumps (2)	OFF	8
9	Manual gear extension handle.....	PUSHED	9
10	Gear selector	DOWN	10
11	Avionic master	OFF	11
12	Electric master.....	OFF	12
13	Engine masters (2).....	OFF	13
14	Pitot heat	OFF	14
15	Alternate static	CLOSED	15
16	Alternators (2).....	ON	16
17	VOTER switches (2)	AUTO	17
18	All light switches	OFF	18
19	Emergency switch	OFF/GUARDED	19
20	ELT	ARMED	20
21	Circuit breakers	CHECKED IN	21
22	Flap selector	UP	22

If starting with external power:

a	Prop area.....	CHECK CLEAR	a
b	External power	CONNECT	b

23	Electric master.....	ON	23
24	Rudder pedals	ADJUSTED	24
25	Flight controls.....	CHECKED	25
26	Trims	CHECKED	26
27	Gear warning + lights, fire detector	TEST	27
28	* De-ice ANNUN TEST.....	ON	28
29	* DEICE LVL LO caution ...	CHECKED ON if applic.	29
30	* Windshield de-icing.....	PUMP 1 + 2 CHECKED	30

Checklist continued next page

CHECK BEFORE ENGINE START continued

31	Flaps full travel -->LDG -->UP	CHECKED	31
32	Variable elevator stop	CHECK	32
	Control stick	AFT and HOLD	
	Power levers	MAX	
	Check stop limit decreasing		
	Power levers	IDLE	
	Check stop limit increasing		
33	Passengers	INSTRUCTED	33
34	Seat belts	FASTENED	34
35	Rear door	CLOSED and LATCHED	35
36	Front Canopy	POS 1 or 2	36
37	G1000	POWERED, ACKNOWLEDGED	37
38	MFD	EIS - ENGINE	38
39	Fuel Quantity	CHECKED, RESET/SET if requ.	39
40	Fuel temperature	CHECKED	40
41	Total time in service	NOTED	41
42	* DEIC PRESS LO caution	CHECKED ON	43
43	* De-ice ANNUN TEST	OFF	44
44	Start key	INSERTED	45
45	Power levers (2)	IDLE	46
46	ACL (strobe)	ON	47

End of Checklist

ENGINE START PROCEDURE**Normal sequence: first start LH engine**

Propeller area CLEAR
 Engine Master ON
 Annunciations / Eng.Instr. CHECKED
 Glow indication..... OFF
 Start key START
 Oil pressure OUTSIDE RED within 3 sec
 Voltage, Electrical load CHECK INDICATION
 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.....	CHECKED	1
2	RPM 710 +/- 30	CHECKED	2
3	Fuel pumps (2)	check OFF	3
4	Fuel selectors (2)	X-FEED	4
5	Pitot heat	ON, annunciation + Amps checked	5
6	Pitot heat	OFF	6
7	Avionics master	ON	7
8	WX radar (if installed).....	VERIFY STBY	8

FMS SETUP*I* nitalize profile (AUX 4, MAP)*F* light plan*R* adios (COM, NAV, ADF, DME, CDI, BRG ½)*P* erformance (speed bugs; Flight ID if applicable)

9	FMS setup	COMPLETED	9
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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.....	COMPLETED	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
15	Standby horizon.....	CHECKED	15
16	Transponder	CODE / MODE CHECKED	16
17	Engine temperatures	CHECKED	17
18	Parking brake	RELEASED	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 brake	SET	1
2	Seat belts	FASTENED	2
3	Adjustable backrest	UPRIGHT	3
4	Rear door.....	CLOSED + LATCHED	4
5	Front canopy	CLOSED + LATCHED	5
6	Front baggage doors.....	CHECKED CLOSED	6
7	Door warning light.....	OFF	7
8	Circuit breakers	CHECKED	8
9	Electric elevator trim	CHECKED, T/O SET	9
10	Fuel selectors (2)	CHECKED ON	10
11	Rudder trim.....	AS REQUIRED	11
12	Flaps	Normal TKOF: UP Short field TKOF: APP	12
13	Flight controls.....	CHECKED	13
14	Power levers (2)	IDLE	14
15	MFD	EIS – ENGINE	15
16	Engine instruments	CHECKED	16

*Engine temperatures must be in green range before performing ECU test.
(For gearbox min.38° recommended). For warm up max power 50%.*

17	VOTER switches (2)	A, AUTO, B, AUTO	17
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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 heat	AS REQUIRED	19
20	* Ice protection	AS REQUIRED	20
21	Transponder	CODE / MODE CHECKED	21
22	Fuel pumps (2)	ON	22
23	MFD	EIS – DEFAULT	23
24	Parking brake	RELEASED	24

End of Checklist

LINE UP PROCEDURE

*Landing light..... ON
Approach sector CLEAR
Runway..... IDENTIFIED*

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

AFTER TAKE-OFF PROCEDURE

Brakes APPLY

Gear UP

Alternate air: OPEN in rain, snow, visible moisture

At safe altitude: Flaps UP

Climb power 92%

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
5	Alternate air	AS REQUIRED	5
6	Landing light	OFF	6

End of Checklist

DESCENT / APPROACH CHECK

1	Landing data	RECEIVED	1
2	Altimeters (2)	SET	2
3	COM / NAV / FMS	SET	3
4	Safety harnesses.....	FASTENED	4
5	Adjustable backrests.....	UPRIGHT	5
6	Parking brake	CHECKED RELEASED	6
7	Rudder trim.....	AS REQUIRED	7
8	Gear warning + lights	TEST	8
9	Landing light	ON	9

❖ → **Normal Approach:**

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

End of Checklist

↓ **1 engine out Approach:**

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

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 heat	OFF	2
3	Flaps	UP	3
4	Fuel pumps (2)	OFF	4
5	* De-ice systems	OFF	5
6	Landing/Taxi light	AS REQUIRED	6

End of Checklist

PARKING CHECK

1	Parking brake	SET	1
2	Power levers (2)	max 10% for 1 min.	2
3	ELT	CHECK not activated	3
4	MFD	EIS – ENGINE	4
5	MFD	TTL TIME IN SVC NOTED	5
6	Avionic master	OFF	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:

10	Electric Master	OFF	10
11	Interior light	CHECKED OFF	11
12	Start key	REMOVED	12

End of Checklist

SECURING THE AIRCRAFT

Use chocks, consider parking brake released.

Cover the pitot probe.

Consider tie down ropes to mooring points.

All masses and speeds are for ACFT **without** increase of MTOM, MZFM, MLM

	"NG"	"Dash-6"	"NG"	"Dash-6"
STALLING SPEEDS KIAS for MTOM 1900 kg				
(V _{S0}) Flaps LDG, gear down	62	62		
(V _S) Flaps APP, gear down	66	65		
(V _S) clean, gear up	69	68		
In Ice: + 4-6 KIAS				
OPERATING SPEEDS KIAS for MTOM 1900 kg				
Min. control speed (V _{MCA})	Flaps UP	76	71	Short field TKOF with flaps APP
	Flaps APP	73	68	
Rotation speed		80	76	76
Best angle of climb (V _X)		--	--	82
Best rate of climb (V _Y)		90		85
Best rate of climb 1-eng. (V _{YSE})		85		
(V _{YSE}) – In ice up to 1900kg		88		
(V _{YSE}) – In ice above 1900kg		90		
Operating speed in ice		118 - 156		
Max. flap speed (V _{FE}) Flaps APP		133		
Max. flap speed (V _{FE}) Flaps LDG		113		
Max. LG extension (V _{LOE})		188		
Max. LG extended (V _{LE})		188		
Max. LG retraction (V _{LOR})		152		
Approach V _{REF} Flaps UP		86 in ice: 94		
Approach V _{REF} Flaps APP		84 in ice: 90		
Approach V _{REF} Flaps LDG		84 in ice: prohib.		
Min. Go-around speed Flaps UP		90		
Max. cruising speed (V _{NO})		151		
Never exceed speed (V _{NE})		188		
	up to	1700 kg	1800 kg	1900 kg
Manoeuvring speed (V _O)		112	119	122

MASS		
Max. TKOF mass	1900 kg	
Max ZF mass	1765 kg	
Max. LDG mass	1805 kg	
Empty mass -Min Flight Mass	1450 kg	
Max. baggage in NOSE	30 kg	
Max. baggage in COCKPIT	45 kg	45 kg
Max. baggage in rear EXTENSION	18 kg	

Available Power Check:

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

Altitude [ft]	OAT								
	-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%	-----	-----

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

"NG"

"Dash-6"

"NG"

"Dash-6"

STALLING SPEEDS KIAS for MTOM 1999 kg		
(V _{S0}) Flaps LDG, gear down	64	64
(V _S) Flaps APP, gear down	68	68
(V _S) clean, gear up	72	72
In Ice: + 4-6 KIAS		

OPERATING SPEEDS KIAS for MTOM 1999 kg		
Min. control speed (V _{MCA})	Flaps UP	76
	Flaps APP	73
Rotation speed		80
Best angle of climb (V _X)		--
Best rate of climb (V _Y)		92
Best rate of climb 1-eng. (V _{YSE})		85
Operating speed in ice		118 - 156
Max. flap speed (V _{FE}) Flaps APP		133
Max. flap speed (V _{FE}) Flaps LDG		113
Max. LG extension (V _{LOE})		188
Max. LG extended (V _{LE})		188
Max. LG retraction (V _{LOR})		152
Approach V _{REF} Flaps UP		92 in ice: 97
Approach V _{REF} Flaps APP		88 in ice: 93
Approach V _{REF} Flaps LDG		86 in ice: prohib.
Min. Go-around speed Flaps UP		92
Max. cruising speed (V _{NO})		151
Never exceed speed (V _{NE})		188
	up to	1700 kg 1800 kg 1999 kg
Manoeuvring speed (V _O)		112 119 122

Short field TKOF with flaps APP

76	74
82	77
85	

MASS

Max. TKOF mass	1999 kg	
Max ZF mass	1835 kg	
Max. LDG mass	1999 kg	Ice: 1900 kg
Empty mass	1450 kg	
Max. baggage in NOSE	30 kg	
Max. baggage in COCKPIT	45 kg	
Max. baggage in rear EXTENSION	18 kg	45 kg

"Ice":
Ice accumulation
and/or icing
conditions

Available Power Check:

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

Altitude [ft]	OAT								
	-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%	-----	-----

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 engines out landing..... page 2

G1000 Warnings..... page 3

Engine

Engine failure during take-off..... page 7

Engine failure, engine shutdown in flight page 7

Engine troubleshooting page 8

Engine restart..... page 9

Oscillating RPM page 10

RPM overspeed page 10

Landing Gear

Landing with defective main gear tire..... page 10

Landing with defective brakes..... page 10

Landing gear unsafe warning page 11

Manual extension of landing gear page 11

Landing gear up landing..... page 11

Smoke and fire

Engine fire on ground or during take-off..... page 6

Engine fire in flight page 6

Electrical fire on ground page 12

Electrical fire in flight..... page 12

If Oxygen System is installed

Cabin smoke, cabin fire, above 10.000 ft... page 13

Oxygen pressure loss above 10.000 ft page 13

Other Emergencies

Emergency descent page 13

*Unintentional flight into icing, Inadvertent icing
encounter & excessive ice accumulation page 14*

Ice protection failure..... page 14

Suspicion of carbon monoxide..... page 14

Electrical System

Complete electrical failure page 12

ENGINES OUT LANDING

- | | | | |
|---|--------------------------|--------------------|---|
| 1 | Mayday call | CONSIDER | 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 |
| 9 | Approach speed | min 84 KIAS | 9 |
| 10 | Power levers (2) | IDLE | 10 |

❖→ Gear UP landing

After touchdown:

- | | | | |
|----|-----------------------|-----|----|
| 11 | Electric master | OFF | 11 |
|----|-----------------------|-----|----|

❖ Gear DOWN landing

- | | | | |
|----|-----------------------|------------------------|----|
| 11 | Gear..... | DOWN, 3 GREENS CHECKED | 11 |
| 12 | Electric master | OFF | 12 |

G1000 WARNINGS

L/R ALTN AMPS	Pg. 3	High Current (red range)
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 STARTER	Pg. 5	Starter not disengaging
DOOR OPEN	Pg. 5	Unlocked doors
L/R ENG FIRE	Pg. 6	Engine fire on ground, during take-off, in flight

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

Abnormal Checklist starts at page 15

L/R ALTN AMPS**HIGH CURRENT**

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

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):
 - ⇒ Reduce power on affected engine
 - ⇒ Expect loss of engine oil
 - ⇒ Be prepared for an engine failure
 - ❖ If oil pressure in green range
 - ⇒ 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

- Reduce power on affected engine
- Increase airspeed
 - 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

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

L/R STARTER**STARTER NOT DISENGAGING****❖→ On ground:**

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

❖→ In flight:

- ⇒ Pull **LDG LT/START CB** (RH Main Bus; push again when LDG light needed)
- ⇒ Watch engine cowling and instruments
- ⇒ Land at nearest suitable airfield

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

G1000 WARNING

L/R ENG FIRE**OR ENGINE FIRE OBSERVED**❖→ **On ground:**

- | | | | |
|-----------------------------------|--------------------------|----------|---|
| 1 | Engine masters (2) | OFF | 1 |
| 2 | Fuel selectors (2) | OFF | 2 |
| 3 | Mayday call | CONSIDER | 3 |
| 4 | Electric master | OFF | 4 |
| When engine and aircraft stopped: | | | |
| 5 | Canopy | OPEN | 5 |
| Evacuate | | | |

❖→ **During Take-off**

- | | | | |
|---|---------------------------------------|-------------|---|
| 1 | Cabin heat & defrost | OFF | 1 |
| 2 | Emergency windows (2) | OPEN | 2 |
| 3 | Proceed according | | |
| | ENGINE FAILURE DURING TAKE-OFF | → page 7... | 3 |

G1000 WARNING

L/R ENG FIRE● **In flight:**

- ⇒ Evaluate the situation
 - If Engine Fire observed:
 - ⇒ Proceed according
 - ENGINE FIRE IN FLIGHT** → page 7

ENGINE FAILURE DURING TAKE-OFF**REJECTED TAKE-OFF OR EMERGENCY RE-LANDING**

- | | | | |
|---------------|--------------------------|--------|---|
| 1 | Power | OFF | 1 |
| 2 | Brakes | APPLY | 2 |
| 3 | ATC | INFORM | 3 |
| If necessary: | | | |
| 4 | Engine Masters (2) | OFF | 4 |
| 5 | Fuel selectors (2) | OFF | 5 |
| 6 | Electric Master | OFF | 6 |

**ENGINE FAILURE DURING FLIGHT
AND ENGINE SHUTDOWN***If airspeed below Vmca:*

Perform Vmc recovery procedure

Airspeed above Vmca:

- | | | | |
|---------------------|---------------------------------------|----------------------|----|
| 1 | Power | INCREASE up to MAX | 1 |
| 2 | Airspeed | min BLUE LINE | 2 |
| 3 | Landing gear | UP | 3 |
| 4 | Flaps | UP | 4 |
| 5 | Power lever (affected engine) . | REDUCE TO VERIFY | 5 |
| 6 | Engine Master (affected engine) | OFF | 6 |
| Above safe altitude | | | |
| 7 | Power (life engine) | up to MAX CONTINUOUS | 7 |
| 8 | Alternator (dead engine) | OFF | 8 |
| 9 | Fuel pumps (dead engine) | OFF | 9 |
| 10 | Fuel selector (dead engine) | OFF | 10 |

ENGINE FIRE IN FLIGHT

- | | | | |
|---|----------------------------|----------------------|---|
| 1 | Cabin heat & defrost | OFF | 1 |
| 2 | Canopy | UNLATCH if necessary | 2 |

Max airspeed 117 KIAS

- | | |
|---|--------------------------------|
| 3 | Shut down the engine according |
|---|--------------------------------|

↑ **ENGINE SHUT DOWN** -procedure ↑

ENGINE TROUBLESHOOTING

❖→ If

L OR R
ECU A AND B FAIL
simultaneously

and ALL of the following conditions exist:

- **indicated LOAD unchanged**
- **perceived thrust is reduced**
- **engine noise level changes or engine running rough**

- 1 POWER leverIDLE for 1 second 1
- 2 POWER leverslowly increase to 1975 RPM 2
 - If engine shows power loss during the POWER lever increase
- 3 POWER lever idle for 1 second 3
- 4 POWER leverslowly increase 4
stop prior to the RPM where former engine power loss was observed

Do not increase the POWER lever past the propeller speed of 1975 RPM or the setting determined in step 4. An increase of engine power beyond this setting leads into another power loss.

With this power setting the engine can provide up to 65% at the maximum propeller speed of 1975 RPM

- 5 Land at nearest suitable airfield 5

End of Checklist

❖ Otherwise:

- 1 Power lever (good engine) . INCREASE up to MAX 1
- 2 Circuit breakersCHECK/RESET 2
 - If engine OK: continue, land ASAP End of Checklist
- 3 VOTER switchSWAP between A and B 3
 - If engine OK: continue, land ASAP End of Checklist
- 4 VOTER switchAUTO 4
 - If engine OK: continue, land ASAP End of Checklist
- 5 Fuel pumps (affected engine)CHECK OFF 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 Checklist
 - If engine still not OK: Be prepared for ENGINE FAILURE IN FLIGHT, land ASAP End of Checklist

ENGINE RESTART***Reason for shutdown must be ascertained***

	<i>With starter</i>	<i>Windmilling (demonstration and training not approved)</i>
<i>15.000 ft PA - 10.000 ft PA</i>	<i>Immediate restart Max 100 KIAS or stationary prop, whichever is lower. Do not engage starter when prop is windmilling.</i>	<i>Immediate restart Min 125 KIAS Max 145 KIAS</i>
<i>Up to 10.000 ft PA</i>	OAT below -15°C: max. engine OFF time 2 minutes	
	OAT -15 to -5°C: max. engine OFF time 5 minutes	
	OAT above -5°C: max. engine OFF time 10 minutes	
	<i>Max 100 KIAS or stationary prop, whichever is lower. Do not engage starter when prop is windmilling.</i>	<i>Min 125 KIAS Max 145 KIAS</i>

- | | | | |
|---|---------------------------------------|-------------|---|
| 1 | Power (affected engine) | IDLE | 1 |
| 2 | Fuel selector (affected engine) | ON | 2 |
| 3 | Alternate air | AS REQUIRED | 3 |
| 4 | Alternator (affected engine) | ON | 4 |
| 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 |

If engine started:

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

OSCILLATING RPM

- 1 Power lever change setting 1
 - If no success:
Check G1000 for ECU FAIL caution
 - If ECU FAIL caution indicated:
- 2 VOTER switch unaffected ECU 2
 - If no success:
- 3 VOTER switch AUTO 3
Land at nearest suitable airfield

RPM OVERSPEED

- 1 Power setting REDUCE 1
 - If no success:
Check G1000 for ECU FAIL caution
 - If ECU FAIL caution indicated:
- 2 VOTER switch unaffected ECU 2
 - If no success:
- 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 Airspeed max 152 KIAS 1

In cold temperature:

2 Airspeed max 110 KIAS 2

3 Gear selector..... RECYCLE 3

❖→If landing gear **extension** unsuccessful:

Continue with MANUAL EXTENSION

❖ If landing gear **retraction** unsuccessful:

Consider flight with landing gear down

MANUAL EXTENSION OF LANDING GEAR

1 Airspeed max 152 KIAS 1

2 Gear indicator lightsTEST 2

3 Electric masterCHECK ON 3

4 Bus voltage CHECK NORMAL 4

5 Circuit breaker..... CHECK 5

6 Gear selector.....DOWN 6

7 Manual extension handle..... PULL 7

If necessary

8 Airspeed max 110 KIAS 8

Apply moderate yawing

9 Gear indicator lightsCHECK 3 GREENS 9

LANDING GEAR UP LANDING

(Landing gear completely retracted)

1 ApproachNORMAL 1

If time/situation allows: just before touchdown:

2 Power lever IDLE 2

3 Engine Masters (2)..... OFF 3

4 Fuel pumps (2) OFF 4

5 Fuel selectors (2) OFF 5

Immediately after touchdown:

6 Electric Master OFF 6

ELECTRICAL FIRE ON GROUND

- | | | | |
|---|--------------------------|----------|---|
| 1 | Mayday call | CONSIDER | 1 |
| 2 | Electric Master | OFF | 2 |
| 3 | Power levers (2) | IDLE | 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 switch | ON | 1 |
| 2 | Mayday call | CONSIDER | 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

COMPLETE ELECTRICAL FAILURE

* Leave icing area

- | | | | |
|---|--|-----------------|---|
| 1 | Circuit breakers | CHECK all IN | 1 |
| | ● If no success: | | |
| 2 | Emergency switch | ON | 2 |
| 3 | Flood light, if necessary | ON | 3 |
| 4 | Power | SET | 4 |
| | according power lever position and/or engine noise | | |
| 5 | Flaps | VERIFY POSITION | 5 |

Land at nearest suitable airfield

Landing gear may slowly extend

For landing apply "Manual extension of landing gear"

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 | | |

CABIN FIRE ABOVE 10.000 FT

- | | | | |
|---|-----------------------------------|----------|---|
| 1 | Oxygen..... | PUSH OFF | 1 |
| 2 | Emergency descent..... | INTITIAE | 2 |
| | Land at nearest suitable airfield | | |

OXYGEN PRESSURE LOSS ABOVE 10.000 FT

- | | | | |
|---|---|--------------------|---|
| 1 | Oxygen..... | PUSH OFF | 1 |
| 2 | Oxygen pressure..... | CHECKED, note down | 2 |
| 3 | Emergency descent..... | INTIATE | 3 |
| | 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

- | | | | |
|---|--------------------|-------------|---|
| 1 | Flaps | UP | 1 |
| 2 | Landing Gear..... | DOWN | 2 |
| 3 | Power levers | IDLE | 3 |
| 4 | Airspeed | AS REQUIRED | 4 |

If Oxygen System is installed

If Oxygen System is installed

UNINTENTIONAL FLIGHT INTO ICING

Leave icing area, continue with item 1

*** INADVERTENT ICING ENCOUNTER & EXCESSIVE ICE ACCUMULATION**

- | | | | |
|---|----------------------------|--------------------|---|
| 1 | De-ice system | HIGH +MAX | 1 |
| 2 | Pitot heat | ON | 2 |
| 3 | Cabin heat & defrost | ON | 3 |
| 4 | Alternate air | OPEN | 4 |
| 5 | Windshield de-ice | USE AS APPROPRIATE | 5 |
| 6 | Emergency windows | OPEN as required | 6 |

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

*** ICE PROTECTION FAILURE**

- | | | | |
|---|----------------------------------|-----------------------------|---|
| 1 | Airspeed | 118 to 156 KIAS until final | 1 |
| 2 | Flaps | limited to APP position | 2 |
| 3 | Approach with residual ice | min 90/93 KIAS | 3 |
| 4 | Landing distance | flaps LDG value + 20% | 4 |

SUSPICION OF CARBON MONOXIDE

- | | | | |
|---|----------------------------|--------------|---|
| 1 | Cabin heat & defrost | OFF | 1 |
| 2 | Ventilation | OPEN | 2 |
| 3 | Emergency windows | OPEN | 3 |
| 4 | Airspeed | max 117 KIAS | 4 |
| 5 | Canopy | UNLATCH | 5 |

Push up and lock in cooling gap position

G1000 CAUTION LIGHTS

L/R FUEL LOW	Page 15	Main tank fuel qty low
L/R AUX FUEL E	Page 15	L/R auxiliary fuel tank empty
L/R ECU A FAIL	Page 16	Fault in ECU A
L/R ECU B FAIL	Page 16	Fault in ECU B
L/R VOLTS LOW	Page 17	Bus voltage too low
L/R ALTN FAIL	Page 17	Alternator failed
L+R ALTN FAIL	Page 17	Both Alternators failed
STICK LIMIT	Page 17	Stick limiting system failed
L/R COOL LVL	Page 18	Engine coolant level low
PITOT FAIL	Page 18	Pitot heating system failed
PITOT HT OFF	Page 18	Pitot heating system OFF
STALL HT FAIL	Page 18	Stall warning heating failed
STALL HT OFF	Page 18	Stall warning heating OFF
DEICE LVL LO	Page 18	De-icing fluid level low
DEIC PRES LO	Page 18	De-icing pressure low
DEIC PRES HI	Page 18	De-icing pressure high

Engine instrument indications outside of green range*COOLANT temperature high/low page 19**OIL temperature high/low page 19**OIL pressure high/low page 19**FUEL temperature high/low page 19**VOLT low page 20**RPM high page 20***Other abnormal situations***Hydraulic pump fail or continuous ops... page 20**AUX fuel transfer fail page 20***L/R FUEL LOW****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 indication
 - ⇒ 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 switch | check AUTO | 1 |
| 2 | Other ECU caution | check OFF | 2 |

Clearing procedure:

- | | | | |
|----------------|--------------------|-------------------|---|
| 3 | VOTER switch | set to failed ECU | 3 |
| Wait 5 seconds | | | |
| 4 | Voter switch | AUTO | 4 |
- **If ECU caution persists terminate 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 | 1 |
| 2 | Fuel pumps LH/RH | ON | 2 |
| 3 | Circuit breakers | CHECK/RESET if necessary | 3 |
| 4 | VOTER switch | check AUTO | 4 |

- **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 altitude | CHECK | 5 |
| 6 | Airspeed | Min. 85 KIAS | 6 |
| 7 | Flaps | check UP | 7 |
| 8 | Landing gear | check 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 8**
ENGINE TROUBLESHOOTING**

L OR R**ECU A FAIL and ECU B FAIL****SIMULTANEOUSLY**

➤ **Go to **Emergency Ckl page 8** ENGINE TROUBLESHOOTING**

L/R VOLTS 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 20

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 **see page 19**

PITOT FAIL**STALL HT FAIL****PITOT HT OFF****STALL HT OFF**

- check pitot heat ON, if in icing conditions
- ⇒ expect loss of airspeed indication
- ⇒ expect loss of aural stall warning
- leave area with icing conditions (see **Emergency Checklist page 14**, "Unintentional flight into icing")

DEICE LVL LO**DE-ICING FLUIDS LEVEL LOW**

- Maximum duration of ice protection in NORMAL mode: 30 min, in HIGH mode: 15 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
 - Go to **Emergency Checklist page 14** ICE 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

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
 - 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 failure; 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 17

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 10** "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