

Checklist für Diamond DA40 TDI Diamond Star

Edition #: **14** Edition date: **01.12.2006**

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 # 14 are on page 2 of this document

Checklist DA40 TDI - LEP

Page	Following Edition	Date
	(or any higher) is valid	
Section : Normal Checklist		
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Section: Emergency Checklist		
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Section: Abnormal Checklist		
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Comments explaining Edition # 12.1

Maximum fuel unbalance value added to the checklist.

Comments explaining Edition # 14

Actually there is no change to Edition 12.1, except to the preamble (terms and conditions of use, disclaimer).

So why Edition # 14?

Publication of the checklists has been taken over by "Diamond Aircraft Flight Training Division". This goes together with the publication of electronic checklist for Diamond aircraft equipped with the G1000.

In the future publication will be through the Diamond Web-site, where checklists can be found for download.

Paper checklists will be published in 2 formats:

- single-page A4: this will give you more flexibility to arrange the printout according your preferences (shrinking, duplex etc.);
- 2 A5-pages placed on one A4 sheet.

Edition # 13 was skipped for obvious reasons: many of you will not like the figure "13".

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 DA40 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 Aircraft 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.

PREFLIGHT INTERIOR + EXTERIOR.

- 1 Check Aircraft papers
- 2 Remove pitot cover
- 3 Check interior for foreign objects
- 4 Check flight controls free
- 5 Check circuit breakers
- 6 Emergency Fuel Valve
NORMAL
- 7 Engine Master OFF
- 8 ECU SWAP AUTO
- 9 Essential bus OFF
- 10 All avionics + all electrics OFF
- 11 Electric Master ON
- 12 Check fuel quantity + temp
- 13 External lights ON
- 14 Pitot heat ON
- 15 Check stall warning
- 16 Check pitot heat
- 17 Check external lights
- 18 Electric Master OFF,
key removed

PREFLIGHT EXTERIOR

Left main gear

- Wheel fairing
- Tire condition, pressure (2,5 bar),
position mark
- Brake, hydraulic line

Left wing

- Wing leading edge, top- and
bottom surface, stall strips
- Drain fuel sump
- Stall warning
- Fuel vent
- Fuel filler cap
- Pitot, static probe (cover
removed)
- Landing/Taxi light
- Wing tip, position light
- Static dischargers
- Aileron (freedom of movement,
hinges, control linkage,
security)
- Wing flap

Left fuselage

- Canopy left side
- Rear door
- Fuselage left side
- Antennas

Tail

- Elevator & rudder (freedom of
movement, hinges)
- Trim - tab
- Tail skid + lower fin
- Static dischargers

Right fuselage

- Fuselage right side
- Rear window
- Canopy right side

Right wing

- Wing flap
- Aileron (freedom of movement,
hinges, control linkage,
security)
- Static dischargers
- Wing tip, position light
- Wing leading edge, top- and
bottom surface, stall strips
- Fuel filler cap
- Fuel vent
- Drain fuel sump

Right main gear

- Wheel fairing
- Tire condition, pressure (2,5 bar),
position mark
- Brake, hydraulic line

Nose section

- OAT sensor
- Propeller surface
- Spinner
- Cowling, Air inlets (5)

Nose gear

- Wheel fairing
- Tire condition, pressure (2,0 bar),
position mark

Engine bay

- Engine oil level (4,5 – 6,0 l)
- Gearbox oil level
- Drain fuel strainer

CHECK BEFORE ENGINE START

1	Preflight check	COMPLETED	1
2	Baggage and tow bar	SECURED	2
3	Emergency fuel valve	NORMAL	3
4	Power lever.....	IDLE	4
5	Parking brake.....	SET	5
6	Alternate air.....	CLOSED	6
7	Circuit breakers.....	CHECKED IN	7
8	Fuel transfer	OFF	8
9	Avionic master	OFF	9
10	Essential bus.....	OFF	10
11	Electric Master.....	OFF	11
12	All light switches.....	OFF	12
13	Pitot heat	OFF	13
14	Alternate static.....	CLOSED	14
15	Emergency switch.....	OFF / GUARDED	15
16	ECU swap	AUTO	16
17	Engine Master	OFF	17
18	Instrument + flood light	OFF	18
19	Gyro slave switch	SLAVE	19
20	Flap selector	UP	20
21	Electric Master.....	ON	21
22	Annunciator Panel/ Eng.instr.	CHECKED	22
23	Acknowledge button.....	PRESS	23
24	Low coolant warning Light.....	CHECKED OFF	24
25	Rudder pedals	ADJUSTED	25
26	Passengers	INSTRUCTED	26
27	Seat belts	FASTENED	27
28	Rear door	CLOSED and LATCHED	28
29	Front canopy.....	POS 1 or 2	29
30	Fuel quantity.....	CHECKED	30
31	Fuel temperature.....	CHECKED	31
32	Hobbs meter	NOTED	32
33	Power lever.....	IDLE	33
34	ACL (strobe)	ON	34

End of Checklist

ENGINE START PROCEDURE

Engine Master ON
 Annunciators / Eng.Instr. CHECKED
 Glow indication

OFF
 Propeller area

CLEAR
 Start key..... START

Oil pressure..... OUTSIDE RED within 3 sec

Voltage, Electrical load CHECK INDICATION

Annunciators ACKNOWLEDGE / Eng.Instr. CHECK

CHECK AFTER ENGINE START

1	Oil pressure	CHECKED	1
2	RPM 890 +/- 20.....	CHECKED	2
3	Warm up time	START	3

Warm up:

Idle

1400RPM

until OT > 50°C and CT > 60°C

4	Pitot heat ... ON, annunciation + Amps checked	4	
5	Pitot heat	OFF	5
6	Avionics master	ON	6
7	VHF COM / NAV / GPS	SET	7

AUTOPILOT TEST

DISCONN press, check electric trim not working

AP ON, check overpowering servos

DISCONN press, check AP off

8	Autopilot test	COMPLETED	8
9	Flood light	CHECKED, ON as required	9
10	Position lights.....	ON as required	10
11	Flaps.....	full travel CHECKED, then T/O	11
12	Altimeters (3)	SET	12
13	Horizon / Directional gyro	CHECKED / SET	13
14	Transponder	CODE / MODE CHECKED	14
15	Parking brake.....	RELEASED	15

End of Checklist

DURING TAXI

Check Brakes

Check flight instruments

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Edition # 14

Diamond Aircraft Flight Training Division

Page 4

Does not replace the Airplane Flight Manual

BEFORE TAKE OFF CHECK

1	Parking brake.....	SET	1
2	Seat belts.....	FASTENED	2
3	Rear door.....	CLOSED + LATCHED	3
4	Front canopy.....	CLOSED + LATCHED	4
5	Door warning light.....	OFF	5
6	Engine instruments.....	CHECKED	6
7	Fuel Temperature (Diesel min. +5°) ..	CHECKED	7
8	Circuit breakers.....	CHECKED	8
9	Electric elevator trim.....	CHECKED, T/O SET	9
10	Flaps.....	CHECKED T/O	10
11	Flight controls.....	CHECKED	11
12	Power lever.....	IDLE	12
13	ECU test.....	PERFORM	13

ECU TEST

ECU test button..... *press and hold*
 ECU backup unsafe light..... *flashing*
 ECU A, B, Caution lights..... *flashing*
 ECU B, Caution lights..... *flashing / prop cycling*
 ECU A, Caution lights..... *flashing / prop cycling*
 All ECU caution lights..... *extinguished*
 ECU backup unsafe light..... *extinguished*
 ECU test button..... *release*

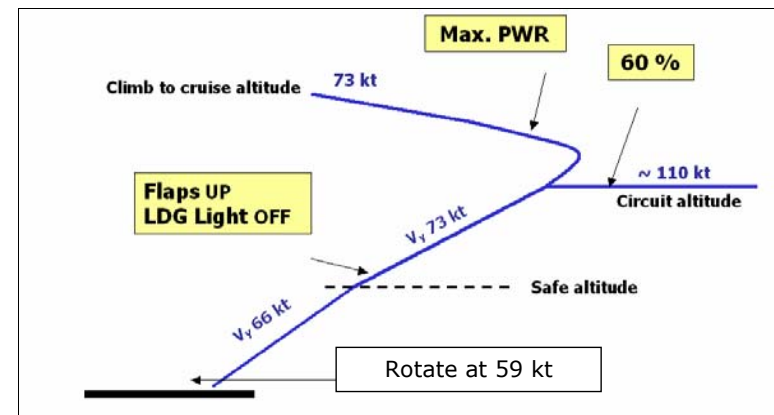
14	ECU swap.....	ECU B, ENGINE CHECKED	14
15	ECU swap.....	AUTO	15
16	Pitot heat.....	AS REQUIRED	16
17	Transponder.....	CODE / MODE CHECKED	17
18	Parking brake.....	RELEASED	18

End of Checklist

For procedural items and take-off profile see next page

LINE UP PROCEDURE

Landing light..... ON
 Approach sector..... CLEAR
 Runway..... IDENTIFIED
 Power lever max (100% / 10 sec).....
CHECK RPM / OP / LOAD / Fuel flow



AFTER TAKE-OFF PROCEDURE

After passing safe altitude:
 Flaps..... UP
 Landing light..... OFF

CLIMB TO CRUISE CHECK

- 1 Flaps..... CHECKED UP 1
- 2 Landing light.....CHECKED OFF 2

End of Checklist

PERIODICALLY DURING CRUISE

Fuel Radio Engine Direction Altitude
 Fuel transfer.....repeat as required
 Maximum fuel unbalance - Long range tank: 9 USG

DESCENT / APPROACH CHECK

- 1 Landing data..... RECEIVED 1
- 2 Altimeters (3) SET 2
- 3 COM / NAV / GPS..... SET 3
- 4 Directional gyro..... SET 4
- 5 Seatbelts.....FASTENED 5
- 6 Fuel transfer AS REQUIRED 6

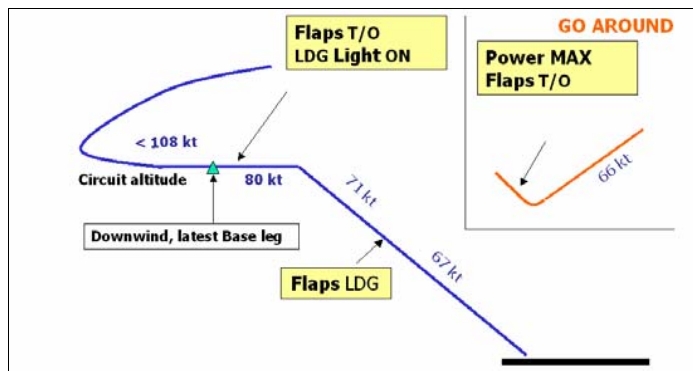
End of Checklist

BEFORE LANDING PROCEDURE

Downwind, latest base leg:
 Flaps T/O
 Landing light..... ON
 On final:
 Flaps LDG

GO AROUND PROCEDURE

Power MAX
 Flaps T/O
 Continue with take-off profile



AFTER LANDING CHECK

- 1 Flaps..... UP 1
- 2 Pitot heat OFF 2
- 3 Alternate air..... CLOSED 3
- 4 Landing/Taxi light..... AS REQUIRED 4
- 5 Transponder AS REQUIRED 5

End of Checklist

PARKING CHECK

- 1 Parking brake..... SET 1
- 2 Power lever..... IDLE for 2 min. 2
- 3 ELT..... 121,5 CHECKED 3
- 4 Hobbs meter NOTED 4
- 5 Avionic master OFF 5
- 6 Electrical consumers except ACL (strobe)... OFF 6
- 7 Engine Master OFF 7
- 8 ACL (strobe) OFF 8
- 9 Electric Master..... OFF 9
- 10 Interior light CHECKED OFF 10
- 11 Start key REMOVED 11

End of Checklist

OPERATING SPEEDS KIAS			
	850 kg	1000 kg	1150 kg
Best gliding angle (Flaps UP)	60	68	73
Best angle of climb (V _X)			
Best rate of climb (V _Y)	54	60	66
Cruising climb speed	60	68	73
Rotating speed	49	55	59
Max. flap speed (V _{FE}) T/O	108		
Max. flap speed (V _{FE}) LDG	91		
Landing speed Flaps UP	60	68	73
Landing speed Flaps LDG	58	63	71
Stalling speed (V _{S0}) LDG	42	<-980kg->	49
Stalling speed (V _S) T/O	44	<-980kg->	51
Stalling speed (V _S) clean	47	<-980kg->	52
Max. cruising speed (V _{NO})	129		
Never exceed speed (V _{NE})	178		
Manoeuvring speed (V _A)	94	<-980kg->	108
Max. turbulence speed	129		

Weights	Empty weight	850 kg
Max. TKOF weight	Max. baggage weight	30 kg

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.



Abnormal Checklist starts at page 7

WARNING LIGHTS

.....	page 2
Engine	
Rough engine and/or power loss	page 2
Windmill engine start	page 3
Powered engine start	page 3
Fluctuating RPM	page 3
RPM overspeed.....	page 4
RPM underspeed	page 4
Electric System	
Under/over voltage	page 4
Total electrical fail	page 4
Smoke and Fire	
Fire / smoke on ground	page 5
Fire / smoke in continued TKOF	page 5
Electric fire / smoke in flight	page 5
Engine fire in flight	page 6
Other Emergencies	
Fuel transfer pump u/s	page 6
Suspicion of carbon monoxide.....	page 6

EMERGENCY LANDING

1	Airspeed.....	73/68/60 KIAS	1
2	ATC.....	INFORM	2
3	Emergency fuel valve.....	OFF	3
4	Engine Master.....	OFF	4
	On final:		
5	Flaps	LDG	5
6	Electric master switch	OFF	6

WARNING LIGHTS

STARTER

1	Power lever	IDLE	1
2	Engine master.....	OFF	2
3	Electric master.....	OFF	3

STARTER NOT DISENGAGING

DOORS

1	Airspeed.....	REDUCE	1
2	Canopy and rear door	CHECK visually	2

DOOR(S) OPEN OR UNLOCKED

If unable to latch:

Land ASAP

Never unlatch rear door during flight

TRIM FAIL

1	AP DISC switch (red button)	PRESS	1
2	AP circuit breaker	PULL	2

AUTOPILOT TRIM FAIL

ROUGH ENGINE AND/OR POWER LOSS

1	Airspeed.....	73/68/60 KIAS	1
2	Power lever	MAX	2
3	Engine caution light	check	3
	If ON:	CHECK CED	
4	Alternate air	in icing conditions: OPEN	4
5	Main tank fuel quantity	CHECK	5
6	Fuel transfer pump	ON	6
7	Emergency fuel valve.....	CHECK NORMAL	7
8	ECU swap.....	ECU B	8
	ECU reset:		
9	Engine master.....	OFF - ON	9
	If no success:		
10	ECU swap.....	AUTO	10

If no success and insufficient power:

Land ASAP

WINDMILL ENGINE START

- | | | | |
|----|---------------------------|-------------------|----|
| 1 | Airspeed..... | 73 - max 110 KIAS | 1 |
| 2 | Pressure Altitude..... | max 6000 ft | 2 |
| 3 | Power lever | IDLE | 3 |
| 4 | Emergency fuel valve..... | CHECK NORMAL | 4 |
| 5 | Alternate air | OPEN | 5 |
| 6 | Fuel transfer pump | ON | 6 |
| 7 | Avionic master | OFF | 7 |
| 8 | Electric master..... | ON | 8 |
| 9 | Engine master..... | OFF, then ON | 9 |
| 10 | Avionic master | ON | 10 |

POWERED ENGINE START

- | | | | |
|----|---------------------------|------------------------|----|
| 1 | Gliding airspeed | 73/68/60 KIAS | 1 |
| 2 | Pressure Altitude..... | max 6000 ft | 2 |
| 3 | Engine master..... | OFF | 3 |
| 4 | Power lever | IDLE | 4 |
| 5 | Emergency fuel valve..... | CHECK NORMAL | 5 |
| 6 | Alternate air | OPEN | 6 |
| 7 | Fuel transfer pump | ON | 7 |
| 8 | Avionic master | OFF | 8 |
| 9 | Electric master..... | ON | 9 |
| 10 | Engine master..... | ON | 10 |
| 11 | Glow indication | CHECK ON, wait for OFF | 11 |
| 12 | Electric master..... | START | 12 |
| 13 | Avionic master | ON | 13 |

FLUCTUATING RPM

- | | | | |
|---|-------------------|----------------|---|
| 1 | Power lever | CHANGE SETTING | 1 |
| | If no success: | | |
| 2 | ECU swap..... | ECU B | 2 |
| | If no success: | | |
| 3 | ECU swap..... | AUTO | 3 |
| | If no success: | | |
| | Land ASAP | | |

RPM OVERSPEED

- | | | | |
|---|-----------------------------|--------------------|---|
| 1 | Power lever | ADJUST to 2300 RPM | 1 |
| 2 | ECU swap..... | ECU B | 2 |
| | If no success: | | |
| 3 | ECU swap..... | AUTO | 3 |
| | adjust RPM with power lever | | |

RPM UNDERSPEED

- | | | | |
|---|-------------------|-------------|---|
| 1 | Power lever | AS REQUIRED | 1 |
| 2 | ECU swap..... | ECU B | 2 |
| | If no success: | | |
| 3 | ECU swap..... | AUTO | 3 |
| | Land ASAP | | |

UNDER / OVER VOLTAGE

- | | | | |
|---|---------------------|----|---|
| 1 | Essential bus | ON | 1 |
| | Land ASAP | | |

TOTAL ELECTRIC FAIL

- | | | | |
|---|--|-----------------|---|
| 1 | Circuit breakers..... | CHECK ALL IN | 1 |
| 2 | Essential bus | ON | 2 |
| | If no success: | | |
| 3 | Emergency switch | ON | 3 |
| 4 | Flood light | ON | 4 |
| 5 | Power | SET | 5 |
| | according power lever position and/or engine noise | | |
| 6 | Flaps | VERIFY POSITION | 6 |
| | Land ASAP | | |

FIRE / SMOKE ON GROUND

- | | | | |
|----------------------|---------------------------|------|---|
| 1 | Power lever | IDLE | 1 |
| 2 | Cabin heat..... | OFF | 2 |
| 3 | Emergency fuel valve..... | OFF | 3 |
| 4 | Fuel transfer pump | OFF | 4 |
| 5 | Engine master..... | OFF | 5 |
| 6 | Electric master..... | OFF | 6 |
| When engine stopped: | | | |
| 7 | Canopy | OPEN | 7 |

Evacuate

FIRE / SMOKE DURING CONTINUED TKOF

- | | | | |
|-----------------------|---------------------------|----------------------|---|
| 1 | Cabin heat..... | OFF | 1 |
| Land ASAP | | | |
| When landing assured: | | | |
| 2 | Emergency fuel valve..... | OFF | 2 |
| 3 | Fuel transfer pump | OFF | 3 |
| 4 | Engine master..... | OFF | 4 |
| 5 | Electric master..... | OFF | 5 |
| 6 | Emergency window..... | OPEN as necessary | 6 |
| 7 | Canopy | UNLATCH as necessary | 7 |

ELECTRIC FIRE / SMOKE IN FLIGHT

- | | | | |
|---|------------------------|----------------------|---|
| 1 | Emergency switch | ON | 1 |
| 2 | Avionic master | OFF | 2 |
| 3 | Electric master..... | OFF | 3 |
| 4 | Cabin heat..... | OFF | 4 |
| 5 | Emergency window..... | OPEN as necessary | 5 |
| 6 | Canopy | UNLATCH as necessary | 6 |

Land ASAP

ENGINE FIRE IN FLIGHT

- | | | | |
|-----------------------|------------------------------|----------------------|----|
| 1 | Cabin heat..... | OFF | 1 |
| 2 | Emergency landing | PREPARE | 2 |
| 3 | Airspeed..... | 73/68/60 KIAS | 3 |
| 4 | ATC..... | INFORM | 4 |
| 5 | Emergency window..... | OPEN as necessary | 5 |
| 6 | Canopy | UNLATCH as necessary | 6 |
| When landing assured: | | | |
| 7 | Emergency fuel valve..... | OFF | 7 |
| 8 | Power lever | MAX | 8 |
| 9 | Engine Master..... | OFF | 9 |
| On final: | | | |
| 10 | Flaps | LDG | 10 |
| 11 | Electric master switch | OFF | 11 |

FUEL TRANSFER PUMP U/S

- | | | | |
|---|---------------------------|------------------|---|
| 1 | Emergency fuel valve..... | EMERG. TRANSFER | 1 |
| 2 | AUX fuel quantity | CHECK min 1 USG | 2 |
| 3 | MAIN fuel quantity..... | CHECK max 15 USG | 3 |
| 4 | Emergency fuel valve..... | reset to NORMAL | 4 |

SUSPICION OF CARBON MONOXIDE

- | | | | |
|---|----------------------------|--------------|---|
| 1 | Cabin heat & defrost | OFF | 1 |
| 2 | Ventilation..... | OPEN | 2 |
| 3 | Emergency windows | OPEN | 3 |
| 4 | Airspeed..... | max 120 KIAS | 4 |
| 5 | Canopy | UNLATCH | 5 |

Push up and lock in cooling gap position

CAUTION LIGHTS

ENGINE	Page 7	Eng. parameter(s) out of green range
PITOT	Page 7	Pitot heating system failed or OFF
LOW FUEL	Page 7	LH tank fuel quantity low
ECU A	Page 8	Engine ECU A malfunction
ECU B	Page 8	Engine ECU B malfunction
LOW VOLTS	Page 8	Bus voltage too low
ALTERNATOR	Page 8	Alternator failure

Indications outside of green range

RPM high.....	page 9
OIL pressure high/low	page 9
OIL temperature high/ low	page 9
FUEL temperature high/low.....	page 9
COOLANT temperature high/low	page 10
GEAR temperature high.....	page 10
GENERATOR yellow range.....	page 10
VOLT low/high.....	page 10

ENGINE

ENG. PARAMETER(S) OUT OF GREEN RANGE

- Check Compact Engine Display CED 125
- Check Auxiliary Engine Display AED 125
- Press „Acknowledge“ button
 - ❖ If an indication is outside of green range:
 - ⇒ continue with appropriate INDICATIONS OUTSIDE OF GREEN RANGE procedure

PITOT

PITOT HEATING SYSTEM FAILED OR OFF

- Check pitot heat ON
 - ❖ If in icing conditions:
 - ⇒ Expect failure of the pitot-static-system
 - ⇒ Alternate static valve: OPEN
 - ⇒ Leave area with icing conditions

LOW FUEL

LH TANK FUEL QTY LOW

- Fuel transfer pump: ON
- Check fuel quantity
 - ❖ If light still ON:
 - ⇒ Expect fuel leak
 - ⇒ Be prepared for emergency landing

ECU A OR B

ON GROUND

- Discontinue operation, terminate flight preparation

ECU A

DURING FLIGHT

- Remark: in case of ECU A fail the system automatically switches to ECU B
- Press ECU TEST button for more than 2 seconds
 - ❖ If ECU A caution message re-appears or cannot be reset:
 - ⇒ Land ASAP
 - ❖ If ECU A caution message can be reset:
 - ⇒ Continue flight. Engine must be serviced after LDG

ECU B

DURING FLIGHT

- Press ECU TEST button for more than 2 seconds
 - ❖ If ECU B caution message re-appears or cannot be reset:
 - ⇒ Land ASAP
 - ❖ If EDU B caution message can be reset:
 - ⇒ Continue flight. Engine must be serviced after LDG

LOW VOLTS

BUS VOLTAGE TOO LOW

Remark: possible reasons are
- malfunction of electrical supply
- RPM too low

- Check circuit breakers
 - ❖ On ground
 - ⇒ Increase RPM
 - ❖ If light still ON:
 - ⇒ Terminate flight preparation
 - ❖ In flight
 - ⇒ Switch off unnecessary electrical equipment
 - ❖ If light still ON:
 - ⇒ Apply "ALTERNATOR"-caution procedure

ALTERNATOR

ALTERNATOR FAILURE

- Check circuit breakers
 - ❖ If all CBs OK:
 - ⇒ ESSENTIAL BUS: ON
- Switch off unnecessary electrical equipment
- Land ASAP
- Be prepared for engine fail; be prepared for emergency landing

INDICATIONS OUTSIDE OF GREEN RANGE

RPM high

- Reduce power
- Keep RPM in green range with appropriate power lever setting
 - ❖ If power not sufficient: land ASAP

Oil pressure (OP) high

- Check oil temperature
- Check coolant temperature
 - ❖ If within green range
 - ⇒ Oil pressure indication may be faulty; watch temperatures
 - ❖ If outside of green range
 - ⇒ Reduce power
 - ⇒ Be prepared for engine fail; be prepared for emergency landing

Oil pressure (OP) low

- Reduce power
- Be prepared for loss of oil and engine fail; be prepared for emergency landing

Oil temperature (OT) high

- Check oil pressure
 - ❖ If too low
 - ⇒ Reduce power
 - ⇒ Be prepared for loss of oil and engine fail; be prepared for emergency landing
 - ❖ If in green range
 - ⇒ Reduce power
 - ⇒ Increase airspeed

Oil temperature (OT) low

- Increase power
- Reduce airspeed

Fuel temperature high

- Reduce power
- Increase airspeed

Fuel temperature low

- Increase power
- Reduce airspeed

Coolant temperature (CT) high

- Check WATER LEVEL caution light
 - ❖ If "WATER LEVEL" OUT
 - ❖ During climb:
 - ⇒ Reduce power 10%
 - ⇒ Increase airspeed 10 KIAS
 - ⇒ If not returning to green range within 60 seconds: reduce power as much as possible and increase airspeed
 - ❖ During cruise:
 - ⇒ Reduce power
 - ⇒ Increase airspeed
 - ⇒ Check coolant temperature in green range
 - ⇒ If not returning to green range: land ASAP
 - ❖ If "WATER LEVEL" ON
 - ⇒ Reduce power
 - ⇒ Expect loss of coolant fluid
 - ⇒ Be prepared for emergency landing

Coolant temperature (CT) low

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

- Check WATER LEVEL caution light
 - ❖ If "WATER LEVEL" ON
 - ⇒ Reduce power
 - ⇒ Expect loss of coolant fluid
 - ⇒ Be prepared for emergency landing

Gear temperature (GT) high

- Reduce power
- Increase airspeed

GENERATOR yellow range

- Switch off unnecessary electrical equipment
 - ❖ If indication still outside of green range:
 - ⇒ Land ASAP

VOLT low

- Check circuit breakers
- Switch off unnecessary electrical equipment
 - ❖ If light still ON
 - ⇒ Apply "ALTERNATOR"-caution procedure

VOLT high

- Land ASAP