SECTION 3

EMERGENCY PROCEDURES

TABLE OF CONTENTS

						Page
3.1	GENERAL					 . 3.1.1
3.2	REJECTED TAKEOR	F PROCEDU	RE			 . 3.2.1
3.3	ENGINE FAILURES ENGINE FAILURE AT TA ENGINE FAILURE AFTEI ENGINE FAILURE DURIN OIL PRESSURE DROP ENGINE REGULATION D	KEOFF BEFORE R ROTATION NG FLIGHT	ROT	ATION		 3.3.1 3.3.2 3.3.4
	POWER LEVER CONTRI GOVERNOR REGULATION EXCESSIVE PROPELLE	OL LOSS	 OT OF	ERAT	ING	 . 3.3.8
	RED WARNING LIGHT	ITT	ON			 . 3.3.10
	RED WARNING LIGHT	TRQ	ON			 . 3.3.12
	ENGINE DOES NOT STO	OP ON GROUND				 . 3.3.13
3.4	AIR START	ER				 3.4.1 3.4.2
3.5	•	JNDIDF	 URIN	 G FLIG	 	 3.5.1 3.5.1 3.5.1 3.5.2 3.5.3

Rev. 0

PILOT'S OPERATING HANDBOOK ____850___

TABLE OF CONTENTS

(Continued)

				Page
3.6	EMERGENCY DESCE MAXIMUM RATE DESCEN MAXIMUM RANGE DESCE	т		3.6.1 3.6.2 3.6.2
3.7	EMERGENCY LANDII FORCED LANDING (ENGII TIRE BLOWOUT DURING LANDING WITH UNLOCKE LANDING WITH DEFECTIV (DOWN UNLOCKED OR NO LANDING WITH GEAR UP LANDING WITHOUT ELEV LANDING WITH FLAPS MADITCHING	NE CUT OFF) LANDING ED MAIN LANDING /E NOSE LANDING OT DOWN) ATOR CONTROL ALFUNCTION	G GEAR G GEAR	3.7.1 3.7.3 3.7.4 3.7.6 3.7.7 3.7.8 3.7.9 3.7.10
3.8	FUEL SYSTEM			3.8.1
	RED WARNING LIGHT	FUEL PRESS	ON	3.8.1
	AMBER WARNING LIGHT	AUX BP ON	ON	3.8.3
	AMBER WARNING LIGHT	FUEL L. LO	OR FUEL R. LO ON	3.8.4
	AMBER WARNING LIGHT	AUTO SEL	ON	3.8.4
3.9	ELECTRICAL SYSTE	М	-	3.9.1
	AMBER WARNING LIGHT	BAT OFF	ON	3.9.1
	AMBER WARNING LIGHT	MAIN GEN	ON	3.9.2
	AMBER WARNING LIGHT	LO VOLT	ON	
	normal functioning on "MAI	V GEN"	, 	3.9.3
	AMBER WARNING LIGHT	LO VOLT	ON	
	functioning on "ST-BY GEN (after "MAIN GEN" failure)			3.9.4

TABLE OF CONTENTS

(Continued)

				Page
	ELECTRICAL DISTRIBUTI "RADIO MASTER" SWITCH			3.9.7 3.9.9
3.10	PRESSURIZATION A	ND AIR COND	TIONING	 3.10.1
	RED WARNING LIGHT	CAB PRESS	ON	 3.10.1
	CABIN NOT DEPRESSUR	IZED AFTER LAND	DING	 3.10.1
	AMBER WARNING LIGHT	BLEED OFF	ON	 3.10.2
	RED WARNING LIGHT	BLEED TEMP	ON	 3.10.3
	RED WARNING LIGHT	DOOR	ON	 3.10.4
	AMBER WARNING LIGHT	VACUUM LO	ON	 3.10.5
	DEFOG MALFUNCTION .			 3.10.6
3.11	LANDING GEAR AND DISCREPANCY WHEN LADISCREPANCY WHE	NDING GEAR GO	ES UP	 3.11.1 3.11.1 3.11.3
	RED WARNING LIGHT	FLAPS	ON	 3.11.5
	FLAPS MALFUNCTION		.	 3.11.5
3.12	DEICING SYSTEM LEADING EDGES DEICIN PROPELLER DEICING FA INERTIAL SEPARATOR FA WINDSHIELD DEICING FA WINDSHIELD MISTING O AMBER WARNING LIGHT	G FAILURE AILURE AILURE AILURE R INTERNAL ICING		 3.12.1 3.12.1 3.12.1 3.12.2 3.12.2 3.12.3
	OR STALL HTR O	N		 3.12.4

 \overline{TBM} PILOT'S OPERATING HANDBOOK ___850___

TABLE OF CONTENTS

(Continued)

		Page
3.13	MISCELLANEOUS	3.13.1
	RUNAWAY OF ONE OF THE THREE ELECTRICAL TRIM TABS	3.13.1
	CRACK IN COCKPIT WINDOW OR WINDOW PANEL	3.13.1
	EMERGENCY EXIT USE	3.13.2
	EMERGENCY BEACON USE (ELT)	3.13.2
	TOTAL COMMUNICATION FAILURE	3.13.3
	MAIN GYRO HEADING FAILURE	3.13.3
	PARTICULAR TRANSPONDER USES	3.13.4
	ACCIDENTAL SPINS	3.13.4
	OXYGEN USE	3.13.5
	AIRSPEED INDICATING SYSTEM FAILURE	3.13.7
	FLIGHT INTO SEVERE ICING CONDITIONS	3.13.8

SECTION 3
EMERGENCY PROCEDURES
EASA Approved

3.1 - GENERAL

The recommended procedures for different failures or emergency situations are provided in this Section.

Emergency procedures associated with optional or particular equipment which require pilot's operating handbook supplements are provided in Section 9 "Supplements".

Pilot must know procedures given in this section and be prepared to take appropriate action should an emergency arise.

Some emergency procedures are a part of pilot basic training. Although these emergencies are discussed here, this information is not intended to replace such training, but only to provide a source of reference and review. This information also provides failure procedures which are not the same for all airplanes.

It is important for the pilot to be familiar with standard emergency procedures to be at the optimum efficacy if necessary.

Rev. 0 Page 3.1.1

Alarm system recall

Main failure or state modification of the different systems are provided by an advisory panel.

This panel includes **red** warning lights indicating a failure which requires an immediate action from the pilot, and **amber** warning lights indicating failures or discrepancies which require an action as soon as practical.

Red or amber failure warning are coupled with the lighting of

- a flashing red indicator

- a flashing amber indicator

- a flashing amber indicator

- a flashing amber indicator

Both indicators are located on the upper part of the L.H. instrument panel. When either one lights up, press it once to reactivate, it will go out and is ready to signal in the event of another failure. On the warning light central panel, the corresponding failure warning light remains ON as long as the failed condition exists.

Page 3.1.2 Rev. 0

3.2 - REJECTED TAKEOFF PROCEDURE

Following an engine failure, refer to Chapter 3.3, Paragraph "ENGINE FAILURE AT TAKEOFF BEFORE ROTATION".
For any other reason :
1 - Power lever
2 - Reverse AS REQUIRED
3 - Braking AS REQUIRED
If the airplane cannot be stopped on the remaining runway :
4 - Power lever IDLE
5 - Condition lever
6 - Tank selector OFF
7 - CRASH lever PULL DOWN
Evacuate if necessary, after the airplane has come to a stop.

Rev. 0 Page 3.2.1 **SECTION 3** EMERGENCY PROCEDURES PILOT'S OPERATING HANDBOOK ___850___ EASA Approved

TBM

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Rev. 0 Page 3.2.2

ENGINE FAILURE AT TAKEOFF BEFORE ROTATION

Rev. 0 Page 3.3.1

ENGINE FAILURE AFTER ROTATION

If altitude does not allow to choose a favourable runway or field:
 Land straight ahead keeping flaps at TO and without changing landing gear position.

Before touch-down:

1 - Maintain:

Weight < 6579 lbs (2984 kg)	Weight > 6579 lbs (2984 kg)
IAS > 80 KIAS	IAS > 85 KIAS

2 - Power lever	IDLE
-----------------	------

4 - Tank selector OFF

5 - CRASH lever PULL DOWN

- If altitude allows to reach a favourable runway or ground:

1 - LDG **DOWN**

2 - Flaps AS REQUIRED

3 - Maintain:

Weight < 6579 lbs (2984 kg)	Weight > 6579 lbs (2984 kg)
IAS > 100 KIAS, Flaps UP	IAS > 105 KIAS, Flaps UP
IAS > 90 KIAS, Flaps TO	IAS > 95 KIAS, Flaps TO

4 -	Power lever	 			 					 					 	IE)L	_E	Ξ

5 - Propeller governor lever **FEATHER**



Page 3.3.2 Rev. 0



SECTION 3 EMERGENCY PROCEDURES EASA Approved

3.3 - ENGINE FAILURES

ENGINE FAILURE AFTER ROTATION (Cont'd)

Before touch-down:

6 - Condition lever CUT OFF
7 - Tank selector OFF
8 - CRASH lever PULL DOWN

Rev. 0 Page 3.3.3

TBM
PILOT'S OPERATING HANDBOOK __850__

3.3 - ENGINE FAILURES

ENGINE FAILURE DURING FLIGHT
1 - Power lever
2 - Propeller governor lever FEATHER
3 - Condition lever CUT OFF
4 - Remaining fuel
5 - Tank selector SWITCH TANKS
6 - "AUX BP" switch and fuel pressure
7 - Air start (Refer to Chapter 3.4)
8 - In case of high altitude (above 12000 ft), undertake an EMERGENCY DESCENT (Refer to Chapter 3.6)
9 - If air start not successful, perform a FORCED LANDING (Refer to Chapter 3.7)

Page 3.3.4 Rev. 0

	OIL PRESSURE DROP		
	RED WARNING LIGHT OIL PRESS ON		
	1 - Oil pressure indicator CHECK		
•	2 - If the indicated pressure is correct SHORTEN THE FLIGHT / MONITOR		
	3 - If indicated pressure is below the green arc CONFIRMED FAILURE		
	Due to the oil pressure drop, the propeller blade angle may go towards high pitch and therefore lead to a Np propeller rotation speed decrease.		
	CAUTION		
	PREPARE FOR AN ENGINE STOP, SHORTLY; REDUCE POWER TO THE MINIMUM NECESSARY, LAND AS SOON AS PRACTICAL		
	If engine power drops itself :		
	4 - Power lever		
 	5 - Propeller governor lever FEATHER		
	6 - Condition lever		
l	Perform a FORCED LANDING (Refer to Chapter 3.7)		

Rev. 0 Page 3.3.5

${f TBM}$ PILOT'S OPERATING HANDBOOK __850__

3.3 - ENGINE FAILURES

ENGINE REGULATION DISCREPANCY, POWER LOSS, POWER LEVER CONTROL LOSS

progressively forwa (Adjust power necessary to continue fligh	
5 - "MAN OVRD" control	
4 - Check that no parameter exceeds allowed values	
3 - Tank selector SWITCH TANK	(S
2 - Confirm engine still running	
Power lever	LΕ

If the available power is weak, extend the landing gear only on a glide path in final approach and extend full flaps only in short final. Do not perform a go-around.

CAUTION

IN "MANUAL OVERRIDE" ENGINE IS NEITHER
PROTECTED AGAINST SLAM ACCELERATIONS, NOR
AGAINST MAXIMUM SPEED OVERSHOOTING.
AVOID RAPID CONTROL MOVEMENTS AND MANAGE
ENGINE PARAMETERS

CAUTION

IN SOME CASES, WHEN "MANUAL OVERRIDE"
CONTROL IS USED, THE AVAILABLE POWER MAY
NOT BE SUFFICIENT TO ENSURE A GO-AROUND IN
LANDING CONFIGURATION, IN PARTICULAR IF THE
WEIGHT IS NEAR THE MAXIMUM WEIGHT

6 - Continue flight, SHORTEN if possible



Page 3.3.6 Rev. 0

ENGINE REGULATION DISCREPANCY,
POWER LOSS,
POWER LEVER CONTROL LOSS (Cont'd)

7 - Perform a normal landing WITHOUT REVERSE
8 - Braking AS REQUIRED
If minimum power obtained is excessive :
1 - Reduce airspeed by setting airplane in nose-up attitude at IAS < 178 KIAS
2 - "INERT SEP" switch ON
3 - If ITT > 840°C : "INERT SEP" switch
4 - Landing gear control
5 - Flaps TO
6 - Establish a long final or an ILS approach respecting IAS < 178 KIAS
7 - When runway is assured : Condition lever
8 - Propeller governor lever FEATHER if necessary to extend trajectory
9 - Flaps LDG as required (at IAS < 122 KIAS)
10 - Land normally WITHOUT REVERSE
11 - Braking AS REQUIRED

Rev. 0 Page 3.3.7

TBM

3.3 - ENGINE FAILURES

GOVERNOR REGULATION CONTROL NOT OPERATING

May indicate a rupture of the linkage of the governor control.

- 1 Continue the flight.
- 2 If Np < 2000 RPM, do not perform a go-around and do not use the reverse.

In that case, the go-around performance and the reverse efficiency might be lower than expected. The airplane repair is mandatory before any other flight.

Page 3.3.8 Rev. 0

EXCESSIVE PROPELLER ROTATION SPEED

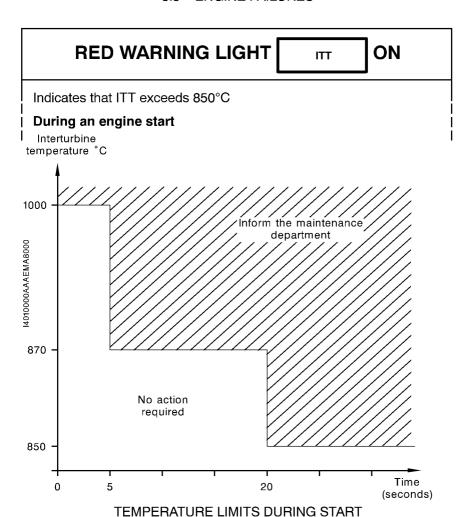
Indicates:

- a propeller governor failure
 - In that case, the propeller overspeed limiter will limit initially the rotation speed to 2100 RPM approximately.
- or a propeller governor and overspeed limiter failure
 - In that case, only the torque limiter operates to limit the power. However, the pilot intervention is necessary to maintain $Np \le 2000$ RPM. The propeller reducer is designed for a max. Np of 2200 RPM.
- Reduce the power and the aircraft speed to avoid propeller rotation speeds higher than 2000 RPM.
- 2 Land as soon as possible.
- 3 Do not perform a go-around.

A go-around would damage the engine reduction gearbox

The airplane repair is mandatory before any other flight.

Rev. 0 Page 3.3.9



If the above diagram limits are exceeded :

. CHECK

2 - Stop the starting procedure.



Page 3.3.10 Rev. 0

RED WARNING LIGHT "ITT" ON (Cont'd)

- 3 Record the engine parameters read in case of overtemperature, as well as ground conditions.
- 4 Inform maintenance department.

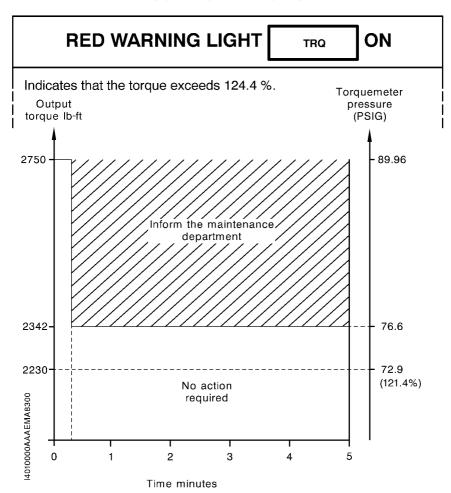
During flight

- 1 ITT indicator CHECK
- 2 Reduce power and correct display according to "Engine Operation" tables - Chapter 5.8

If ITT remains > 840°C:

- 3 Reduce power to maintain ITT < 840°C.
- 4 Shorten the flight.
- 5 Record the airplane and engine parameters read in case of povertemperature.
- 6 Inform maintenance department at the end of the flight.

Rev. 0 Page 3.3.11



- 1 Reduce power according to "Engine Operation" tables Chapter 5.8.
- 2 Shorten the flight.
- 3 Record the airplane and engine parameters read in case of l overtorque.
- 4 Inform maintenance department at the end of the flight.

Page 3.3.12 Rev. 0

ENGINE DOES NOT STOP ON GROUND

6 - Tank selector OFF

Wait for engine stop due to lack of fuel in the pipes

7 - "GENERATOR" selector MAIN

8 - "SOURCE" selector **OFF**

9 - Inform the maintenance department

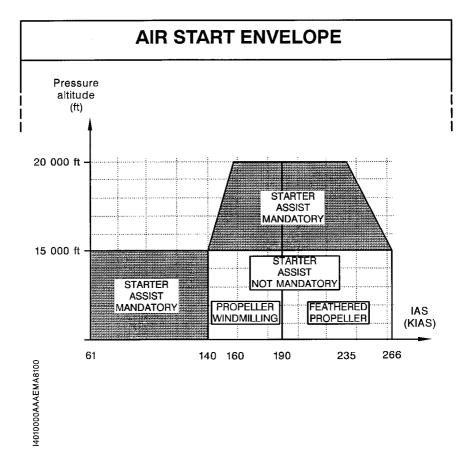
4 - "EXT. LIGHTS" panel

Rev. 0 Page 3.3.13

SECTION 3 EMERGENCY PROCEDURES EASA Approved TBM PILOT'S OPERATING HANDBOOK ___850__

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Page 3.3.14 Rev. 0



Air start may be attempted at all speeds and all altitudes. However, above 20000 ft or with Ng < 13 %, ITT tends to increase during start and prudence is recommended.

Figure 3.4.1 - AIR START ENVELOPE

Rev. 0 Page 3.4.1

AIR START WITH STARTER

CAUTION

THE STARTER CANNOT OPERATE IF THE "GENERATOR" **SELECTOR IS ON "ST-BY"**

CAUTION

IGNITION IS NOT AVAILABLE IF THE "ESS BUS TIE" SWITCH IS KEPT "EMER"

1 - "BLEED" switch OFF

CAUTION

"BLEED" SWITCH SET TO "AUTO" OR "HI" MAY CAUSE OVERTEMPERATURE OR ABNORMAL ACCELERATION

2 - "AIR COND" switch OFF
3 - Air start envelope CHECKED
4 - Electric consumption REDUCE
5 - Power lever
6 - Propeller governor lever FEATHER
7 - Condition lever
8 - Tank selector CHECK
9 - "AUX BP" fuel switch ON
10 - "IGNITION" switch AUTO or ON
11 - "STARTER" switch



Rev. 0 Page 3.4.2

12 - Co	Condition lever	LO / IDLE when Ng \sim 13 %
13 - IT	TT and Ng	MONITOR
14 – W	Vhen Ng \sim 50 % steady $\dots \dots$ IC	STARTER OFF
15 - Co	Condition lever	HI / IDLE
16 - Pr	Propeller governor lever	MAX. RPM
17 - Po	Power lever	AS REQUIRED
18 - El	Electrical equipment	AS REQUIRED
19 - "A	AUX BP" fuel switch	AUTO
20 - "B	BLEED" switch	AS REQUIRED

CAUTION

WITH THE EFS 40, DISPLAYS ARE MOMENTARILY LOST DURING STARTER OPERATION

CAUTION

WITH ALTIMETERS AM250 (if installed), ALTITUDE INFORMATION IS MOMENTARILY CUT OFF DURING STARTER OPERATION

Rev. 0 Page 3.4.3

TBM

PILOT'S OPERATING HANDBOOK ___850__

3.4 - AIR START

AIR START WITHOUT STARTER (STARTER ASSIST NOT MANDATORY)

CAUTION

THE STARTER CANNOT OPERATE IF THE "GENERATOR"
SELECTOR IS ON "ST-BY"

CAUTION

IGNITION IS NOT AVAILABLE IF THE "ESS BUS TIE" SWITCH IS KEPT "EMER"

1.	- "BLEED" switch	 OFF
	- DELECT SWILDI	 OI I

CAUTION

"BLEED" SWITCH SET TO "AUTO" OR "HI" MAY CAUSE OVERTEMPERATURE OR ABNORMAL ACCELERATION

OFF	2 - "AIR COND" switch
. 140 < IAS< 190 KIAS	3 - Air start envelope
REDUCE	4 - Electrical consumption
IDLE	5 - Power lever
CUT OFF	6 - Condition lever
CHECK	7 - Tank selector
ON	8 - "AUX BP" fuel switch



Page 3.4.4 Rev. 0

AIR START WITHOUT STARTER (STARTER ASSIST NOT MANDATORY) (Cont'd)

ON	- "IGNITION" switch	,
LO / IDLE	- Condition lever	1(
MONITOR	- ITT and Ng	1
. IGNITION AUTO or ON	- When Ng ~ 50 % steady	1:
HI / IDLE	- Condition lever	1:
MAX. RPM	- Propeller governor lever	14
AS REQUIRED	- Power lever	1
AS REQUIRED	- Electrical equipment	10
AUTO	- "AUX BP" fuel selector	1
AS REQUIRED	- "BLEED" switch	18

CAUTION

WITH THE EFS 40, DISPLAYS ARE MOMENTARILY LOST DURING STARTER OPERATION

CAUTION

WITH ALTIMETERS AM250 (if installed), ALTITUDE INFORMATION IS MOMENTARILY CUT OFF DURING STARTER OPERATION

Rev. 0 Page 3.4.5

SECTION 3 EMERGENCY PROCEDURES PILOT'S OPERATING HANDBOOK ___850___ EASA Approved

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Page 3.4.6 Rev. 0

3.5 - FIRE AND SMOKE

ENGINE FIRE ON GROUND	
Symptoms : ITT increasing, red warning light ITT on,	
smoke,	
1 - Power lever	
2 - Condition lever	
3 - "BLEED" switch OFF	
4 - "AIR COND" switch OFF	
5 - Brakes AS REQUIRED	
6 - Tank selector OFF	
7 - Warn for ground assistance, if necessary	
8 - CRASH lever PULL DOWN	
9 - EVACUATE as soon as possible	

CABIN FIRE ON GROUND
1 - Power lever
2 - Condition lever CUT OFF
3 - Brakes
4 - Warn for ground assistance, if necessary
5 - CRASH lever PULL DOWN
6 - Cabin extinguisher
7 - EVACUATE as soon as possible

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3.5 - FIRE AND SMOKE

ENGINE FIRE IN FLIGHT	
Symptoms : ITT increasing, red warning light ITT on,	
smoke,	
1 - Power lever	
2 - Propeller governor lever FEATHER	
3 - Condition lever	
4 - "AUX BP" fuel switch OFF	
5 - Tank selector OFF	
6 - "BLEED" switch OFF	
7 - "AIR COND" switch OFF	
8 - In case of high altitude (above 12000 ft), undertake an EMERGENCY DESCENT (Refer to Chapter 3.6)	
9 - Perform a FORCED LANDING (ENGINE CUT OFF) (Refer to Chapter 3.7)	
<u>WARNING</u>	
AFTER ENGINE FIRE, DO NOT ATTEMPT AN AIR START	

Page 3.5.2 Rev. 0

3.5 - FIRE AND SMOKE

CABIN ELECTRICAL FIRE OR SMOKE DURING FLIGHT

If the origin is known:
1 - Oxygen
2 - Defective equipment OFF
Descend quickly below 12000 ft
3 - Using the on board extinguisher, EXTINGUISH fire if necessary
4 - Smoke elimination (if necessary) UNDERTAKE PROCEDURE (Refer to this chapter)
5 - LAND as soon as possible
If the origin is unknown :
1 - Oxygen USE AS REQUIRED (pilot and passengers)
2 - "AIR COND" switch OFF
3 - Non essential equipment OFF
4 - Smoke elimination (if necessary) UNDERTAKE PROCEDURE (Refer to this chapter)
If smoke or fire stops :



LAND as soon as possible.

TBM PILOT'S OPERATING HANDBOOK ___850___

3.5 - FIRE AND SMOKE

CABIN ELECTRICAL FIRE OR SMOKE DURING FLIGHT (Cont'd)

Page 3.5.4 Rev. 0

3.5 - FIRE AND SMOKE

SMOKE ELIMINATION		
1 - Smoke origin IDENTIFY		
2 - Oxygen USE AS REQUIRED (pilot and passengers)		
3 - If smoke persists, undertake an EMERGENCY DESCENT (Refer to Chapter 3.6)		
4 – "BLEED" switch OFF		
5 - "AIR COND" switch OFF		
6 - "DUMP" control		
Wait until the differential pressure drops		
7 - "RAM AIR" control knob		
8 - LAND as soon as possible		

Rev. 0 Page 3.5.5 SECTION 3 EMERGENCY PROCEDURES EASA Approved \overline{TBM} PILOT'S OPERATING HANDBOOK __850__

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Page 3.5.6 Rev. 0

3.6 - EMERGENCY DESCENTS

Two types of descent are considered:

- Engine running, maximum descent rate, if necessary
 The factors to be considered are:
 - Cabin altitude and oxygen duration
 - Electrical power endurance
 - Distance to appropriate landing area
 - Flight conditions IMC, VMC, ICING
 - Minimum safe altitude
 - Fuel reserves
- 2 Engine failure, aircraft flown for maximum range

The pilot is in charge of evaluating the situation and priorities.

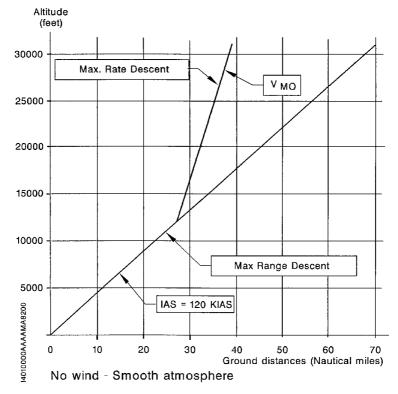


Figure 3.6.1 - EMERGENCY DESCENT PROFILES

Rev. 0 Page 3.6.1

TBM PILOT'S OPERATING HANDBOOK $_$ 850 $_$

3.6 - EMERGENCY DESCENTS

MAXIMUM RATE DESCENT		
1 - Power lever		
2 - Oxygen If necessary		
3 - Propeller governor lever MAX. RPM		
Procedure in smooth air :		
4 - Flaps		
5 - Landing gear		
6 - Speed		
Procedure in rough air or in case of structure problem :		
7 - Reduce speed IAS ≤ 178 KIAS		
8 - Landing gear		
9 - Flaps UP		
10 - Keep IAS ≤ 178 KIAS		

MAXIMUM RANGE DES	CENT
1 - Power lever	IDLE
2 - Propeller governor lever	FEATHER
3 - Condition lever	CUT OFF
4 - Flaps	
5 - Landing gear	UP
6 - Sneed	IAS = 120 KIAS



Page 3.6.2 Rev. 0

3.6 - EMERGENCY DESCENTS

MAXIMUM RANGE DESCENT (Cont'd)



Rev. 0 Page 3.6.3

PILOT'S OPERATING HANDBOOK ____**850**__

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3.6 - EMERGENCY DESCENTS

MAXIMUM RANGE DESCENT (Cont'd) - "INSTR / CABIN / ACCESS" controls OFF - "GYRO INST" panel, all switches OFF - Transponder 2 OFF If icing conditions: - "PITOT 1 HTR" switch Checked ON - "L.WINDSHIELD" switch ON - Maintain minimum recommended speeds (Chapter 4.5 - "Flight into known icing conditions", Paragraph "Ice protection procedures", Point 3) If time permits : - "RADIO + FAN" breaker PULLED 1 - "28 VDC PLUGS" breaker PULLED i - "AIR COND" breaker PULLED 14 - Prepare a forced landing Refer to Chapter 3.7

Page 3.6.4 Rev. 0

FORCED LANDING (ENGINE CUT OFF) 2 - Propeller governor lever FEATHER 3 - Condition lever CUT OFF 4 - Tank selector OFF 5 - "AUX BP" fuel switch OFF 6 - "BLEED" switch **OFF** favourable ground approach If ground allows it: 10 - "ESS BUS TIE" reverse switch NORMAL in order to have GEAR and FLAPS available If night conditions: If ground does not allow it: 14 - When chosen ground is assured FLAPS LDG 15 - CRASH lever PULL DOWN



Rev. 0 Page 3.7.1

FORCED LANDING (ENGINE CUT OFF) (Cont'd)

16 - Final approach:

Weight < 6250 lbs (2835 kg)	Weight > 6250 lbs (2835 kg)
IAS = 80 KIAS	IAS = 85 KIAS

17 - Land flaring out

18 - EVACUATE after stop

TIRE	RI	OW	רו ורי	ומ ז	IRIN	IG I	Δħ	אוטו	JC
HINE	பட		\mathbf{u}	I DL	JNIII	101	_~1	1011	40

1 – 1	Control	direction	with	brakes	and	nose	wheel	steering
-------	---------	-----------	------	--------	-----	------	-------	----------

- 2 REVERSE AS REQUIRED
- 3 Stop airplane to minimize damages
- 4 Perform engine SHUT-DOWN procedure (Refer to Chapter 4.3)

Rev. 0 Page 3.7.3

PILOT'S OPERATING HANDBOOK 850

3.7 - EMERGENCY LANDINGS

LANDING WITH UNLOCKED MAIN LANDING GEAR

 1 - Ask control tower or another airplane to visually check landing gear position

CAUTION

IF ONE MAIN LANDING GEAR IS NOT DOWN, IT IS BETTER TO LAND WITH GEAR UP

If defective gear is down but unlocked :

- 2 "BLEED" switch **OFF**
- 4 Maintain tank selector on defective landing gear side to lighten corresponding wing [maximum fuel imbalance 15 us gal (57 litres)]
- 5 Choose a runway with headwind or crosswind blowing from defective gear side
- 6 Align the airplane to land on the runway edge opposite to the defective landing gear
- 7 Land and set nose gear immediately on ground to assure lateral control
- 8 Use full aileron during roll-out to lift the wing with the defective landing gear
- 9 Preferably do not use reverse
- 10 Complete taxiing with a slight turn toward defective landing gear



Page 3.7.4 Rev. 0

LANDING WITH UNLOCKED MAIN LANDING GEAR (Cont'd)

11 - Condition lever CUT OFF
12 - Engine stop procedure COMPLETE
13 - EVACUATE
If landing gear drags during landing :
14 - Condition lever CUT OFF
15 - CRASH lever PULL DOWN
16 - Tank selector OFF
17 - EVACUATE after airplane comes to a stop

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PILOT'S OPERATING HANDBOOK ____850_

3.7 - EMERGENCY LANDINGS

LANDING WITH DEFECTIVE NOSE LANDING GEAR (DOWN UNLOCKED OR NOT DOWN)

1 - Transfer passengers to the rear, if necessary

Weight < 6250 lbs (2835 kg)	Weight > 6250 lbs (2835 kg)
IAS = 90 KIAS	IAS = 95 KIAS

3 - Land with nose-up attitude, keep nose high

4 - Condition lever CUT OFF

5 - Propeller governor lever FEATHER

6 - Touch-down slowly with nose wheel and keep elevator at nose-up stop

7 - Moderate braking

8 - CRASH lever PULL DOWN

9 - EVACUATE after airplane comes to a stop

Page 3.7.6 Rev. 0

	LANDING WITH GEAR UP				
1 -	1 - Final approach Standard				
2 -	Flaps	LDG			
i i	Weight < 6250 lbs (2835 kg)	Weight > 6250 lbs (2835 kg)			
	IAS = 80 KIAS	IAS = 85 KIAS			
3 -	"BLEED" switch	OFF			
4 -	"DUMP" switch	ACTUATED			
Whe	en runway is assured :				
5 -	Power lever	IDLE			
6 -	Propeller governor lever	FEATHER			
7 -	Condition lever	CUT OFF			
8 -	Tank selector	OFF			
9 -	Flare out				
10 -	After touch-down, CRASH lever	PULL DOWN			
11 -	EVACUATE after airplane come	s to a stop			

Rev. 0 Page 3.7.7

 ${f TBM}$ PILOT'S OPERATING HANDBOOK $_$ **850** $_$

3.7 - EMERGENCY LANDINGS

LANDING WITHOUT ELEVATOR CONTROL

- 2 Airspeed **Maintain IAS = 95 KIAS**
- 3 Power as necessary to maintain airspeed according to an easy approach slope \simeq 300 ft / min
- 4 Adjust elevator by using manual pitch trim wheel
- 5 When ground approaches, decrease slope progressively
- 6 Reduce power progressively

Page 3.7.8 Rev. 0

LANDING WITH FLAPS MALFUNCTION

For flaps deflections from "UP" to "TO" position:

Proceed as for a normal landing, maintaining approach airspeed:

Weight < 6250 lbs (2835 kg)	Weight > 6250 lbs (2835 kg)
IAS = 100 KIAS	IAS = 105 KIAS

Provide for a landing distance increased up to about 60 %

For flaps deflections greater than "TO" position:

Proceed as for a normal landing, maintaining approach airspeed:

Weight < 6250 lbs (2835 kg)	Weight > 6250 lbs (2835 kg)
IAS = 95 KIAS	IAS = 100 KIAS

Provide for a landing distance increased up to about 50 %

Rev. 0 Page 3.7.9

DITCHING				
1 - Landing gear	UP			
In heavy swell with light wind, land parallel to the swell (rollers).				
In heavy wind, land facing wind.				
2 - Flaps	LDG			
 3 - Maintain a descent rate as low a water 	s possible when approaching the			
4 - Airspeed :				
Weight < 6579 lbs (2984 kg)	Weight > 6579 lbs (2984 kg)			
IAS = 80 KIAS	IAS = 85 KIAS			
5 - "BLEED" switch	OFF			
6 - "DUMP" switch	ACTUATED			
7 - CRASH lever PULL DOWN				
8 - Maintain attitude without roundir	ng off until touch-down			
9 - EVACUATE through EMERGEN	CY EXIT			

Page 3.7.10 Rev. 0

3.8 - FUEL SYSTEM

RED WARNING LIGHT ON **FUEL PRESS** Indicates a fuel pressure drop at "HP" engine pump inlet 1 - Remaining fuel CHECK 2 - Tank selector SWITCH TANKS 3 - Fuel pressure indication CHECK CHECK / CORRECT If alarm persists : AUX BP ON I on CHECK Warning light 6 - Fuel pressure If pressure is normal again and warning light is off, mechanical pump has failed. 7 - Maintain "AUX BP" fuel switch If pressure remains at 0 (or drops to 0 after "AUX BP" pump operation) FUEL PRESS | remains on : and if warning 8 - Tank switching PERFORM If pressure is normal again, a supply problem may have occured from the tank selected first (air vent, fuel icing, etc ...).



Rev. 0 Page 3.8.1

\overline{TBM} PILOT'S OPERATING HANDBOOK ___850__

3.8 - FUEL SYSTEM

RED WARNING LIGHT "FUEL PRESS" ON (Cont'd)

3.8 - FUEL SYSTEM

AMBER WARNING LIGHT	AUX BP ON	ON
(Indication is normal if "AUX BP" fuel switch If "AUX BP" fuel switch is in AUTO positi	•	n)
1 - Reset to		ON
2 - Then to		AUTO
If AUX BP ON warning light goes ou	ıt, continue fligh	nt normally
If AUX BP ON warning light remains	s on, mechanic	al booster
In that case :		
I 3 - "AUX BP" fuel switch		ON
4 - Shorten flight		

Rev. 0 Page 3.8.3

TBM PILOT'S OPERATING HANDBOOK $_850_$

3.8 - FUEL SYSTEM

AMBER WARNING LIGHT	AUTO SEL	ON
Indicates that the mode control automatic tim 1 - "FUEL SEL" switch		AUTO
2 - If it is on AUTO : confirmed failure		MAA.
3 - "FUEL SEL" switch4 - Select tanks manually as required		MAN

Page 3.8.4 Rev. 0

Rev. 0 Page 3.9.1

AMBER WARNING LIGHT MAIN GEN ON
Indicates that "GENERATOR" selector has been positioned to OFF or ST-BY, or main generator is cut off
1 - If necessary
2 - If warning persists "MAIN GEN" switching confirmed
3 - "MAIN GENERATOR RESET" push-button PUSH
In case of failure :
4 - Disconnect following ancillary electrical systems:
- "AIR COND" switch OFF - "STROBE" switch OFF - "NAV" switch OFF - "CABIN" lights switch OFF - "AP/TRIMS MASTER" switch AP OFF - All equipment not essential OFF - "L.WINDSHIELD" switch (above 15 000 ft) OFF - "R.WINDSHIELD" switch (above 15 000 ft) OFF - "BLEED" switch (before landing and on ground) OFF
5 - "GENERATOR" selector

PILOT'S OPERATING HANDBOOK

AMBER WARNING LIGHT LO VOLT ON normal functioning on "MAIN GEN" 1 - Voltmeter voltage 2 - If voltage is < 26 Volts, monitor a possible drop or any indication of battery run-down In that case: 3 - Disconnect following ancillary electrical systems: OFF - "STROBE" switch **OFF OFF** - "CABIN" lights switch OFF - "AP / TRIMS MASTER" switch AP OFF - All equipment not essential OFF - "L.WINDSHIELD" switch OFF - "R.WINDSHIELD" switch (above 15 000 ft) OFF - "BLEED" switch (before landing and on ground) OFF - Only use landing lights briefly and if necessary. 4 - "GENERATOR" selector ST-BY (RESET if necessary) 5 - Voltage and battery charge MONITOR

Rev. 0 Page 3.9.3

 ${f TBM}$ PILOT'S OPERATING HANDBOOK ___850___

3.9 - ELECTRICAL SYSTEM

AMBER WARNING LIGHT ON LO VOLT functioning on "ST-BY GENERATOR" (after "MAIN GEN" failure) ON Amber warning lights **MAIN GEN** and LO VOLT with "GENERATOR" selector on "ST-BY 1 - "GENERATOR" selector 2 - "MAIN GENERATOR RESET" push-button PRESS If successful : 3 - Disconnect ancillary electrical systems not essential 4 - Monitor voltmeter and ammeter Prepare to SHORTEN FLIGHT If not successful: 5 - "GENERATOR" selector 6 - "ST-BY GENERATOR RESET" push-button PRESS If successful : 7 - Disconnect ancillary electrical systems not essential 8 - Monitor voltmeter and ammeter Prepare to SHORTEN FLIGHT

If not successful, both generators failure is confirmed. If possible, return to VMC conditions



Page 3.9.4 Rev. 0

AMBER WARNING LIGHT "LO VOLT" ON functioning on "ST-BY GENERATOR" (after "MAIN GEN" failure) (Cont'd)

9 - "GENERATOR" selector OFF
If conditions allow : VMC and non icing conditions
10 - If altitude ≥ 12000 ft : "OXYGEN" switch ON
11 - "ESS BUS TIE" reverse switch Cover up EMER position
In this configuration, only both "ESS BUS" bars and "BUS BAT" bar are directly supplied by the battery
Available ancillary systems - see Figure 3.9.1
12 - LAND as soon as possible
If necessary, it is always possible to use other ancillary systems by selecting :
- "ESS BUS TIE" reverse switch NORMAL
If flight conditions do not allow :
13 - Manually disconnect ancillary systems as follows :
- "AIRFRAME DE ICE" switch OFF - "ICE LIGHT" switch OFF - "PROP DE ICE" switch OFF - "R.WINDSHIELD" switch OFF - "PITOT 2 & STALL HTR" switch OFF - "L.LDG / TAXI / R.LDG / PULSE SYST" switches OFF - "STROBE" switch OFF - "BLEED / AIR COND / FAN FLOW" switches OFF - "AUX BP" switch OFF - "FUEL SEL" switch MAN - "AP/TRIMS MASTER" switch OFF
"FILOW Landson DILLER



Rev. 0 Page 3.9.5

TBM PILOT'S OPERATING HANDBOOK $__850_$

3.9 - ELECTRICAL SYSTEM

AMBER WARNING LIGHT "LO VOLT" ON functioning on "ST-BY GENERATOR" (after "MAIN GEN" failure) (Cont'd)

	- VHF 1 / NAV 1 / GPS 1 OFF - MFD OFF - ADF OFF - Stormscope switch OFF - "CD" player OFF - "INSTR / CABIN / ACCESS" controls OFF - "GYRO INST" panel, all switches OFF - Transponder 2 OFF	
,	If icing conditions: - "PITOT 1 HTR" switch	
	If time permits: - "RADIO + FAN" breaker	

Page 3.9.6 Rev. 0

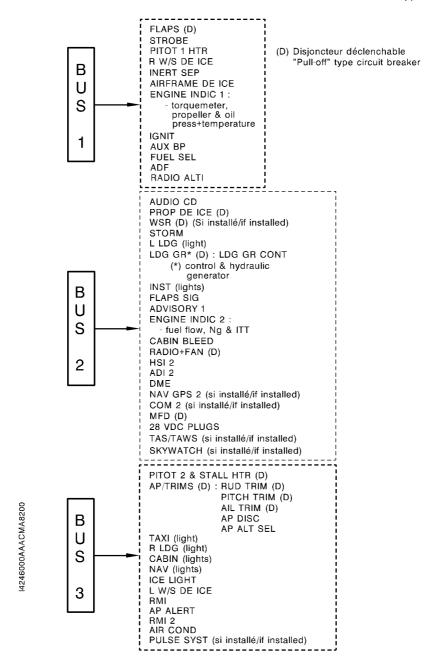


Figure 3.9.1 (1/2) - ELECTRICAL DISTRIBUTION OF BUS BARS

Rev. 0 Page 3.9.7

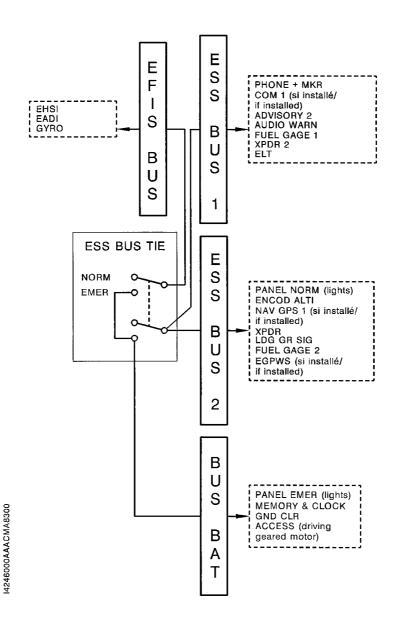


Figure 3.9.1 (2/2) - ELECTRICAL DISTRIBUTION OF BUS BARS

Page 3.9.8

"RADIO MASTER" SWITCH FAILURE

In case of "RADIO MASTER" switch misfunction, leading to the impossibility of energizing the radionavigation equipment:

1 - "RADIO FAN" circuit breaker PULL [Circuit breaker panel L.H. (or R.H., if "pilot" door installed) lower corner]

The radionavigation equipment are supplied again and the flight can continue.

However the equipment forced ventilation is no longer available. An excessive use of VHF COM transmitters may reduce their power, so that transmission range will be limited.

Rev. 0 Page 3.9.9

SECTION 3 EMERGENCY PROCEDURES EASA Approved ${\color{red}TBM}$ PILOT'S OPERATING HANDBOOK $__{\it 850}_$

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Page 3.9.10 Rev. 0

RED WARNING LIGHT CAB PRESS ON
1 - Pressurization indicator
If $\Delta P > 6.2 \mathrm{psi}$:
2 - "BLEED" switch OFF
3 - EMERGENCY DESCENT (Refer to Chapter 3.6)
If cabin altitude > 10000 ft :
4 - Oxygen Refer to Chapter 3.13
5 - "BLEED" switch CHECK AUTO
6 - "DUMP" switch CHECK UNDER GUARD
7 - "RAM AIR" control knob CHECK PUSHED
8 - Limit flight altitude to maintain cabin altitude < 12000 ft
9 - If necessary EMERGENCY DESCENT (Refer to Chapter 3.6)

Rev. 0 Page 3.10.1 ${f TBM}$ PILOT'S OPERATING HANDBOOK ___850__

3.10 - PRESSURIZATION AND AIR CONDITIONING

RED WARNING LIGHT BLEED TEMP ON
Indicates overheat of air conditioning pack. Normally this leads to
BLEED cutoff and to BLEED OFF amber warning light illumination.
Should automatic cutoff occur or not :
1 - If possible, reduce power
2 - "AIR FLOW" distributor
3 - "CABIN TEMP/°C" selector
4 - "BLEED" switch OFF
5 - As soon as BLEED TEMP OFF, "BLEED" switch AUTO
If BLEED TEMP and BLEED OFF Still ON:
6 - If necessary EMERGENCY DESCENT (Refer to Chapter 3.6) or continue flight at an altitude < 12000 ft
7 - Continue flight

Rev. 0 Page 3.10.3

RED WARNING LIGHT

DOOR

ON

Indicates that one of the door latches of the access door and (if installed) of the "pilot" door has not been correctly locked

On ground, check the correct locking, as well as the latches position of the access door and (if installed) of the "pilot" door

During flight:

- 1 Start a slow descent
- 2 Decrease cabin ΔP by selecting a higher cabin altitude and maximum cabin rate

If real failure of one of the doors is noted:

- 3 "BLEED" switch **OFF**
- 4 "DUMP" switch ACTUATED
- 5 If necessary, undertake an EMERGENCY DESCENT of "IN ROUGH ATMOSPHERE" type (Refer to Chapter 3.6)

Page 3.10.4 Rev. 0

AMBER WARNING LIGH	T VACUUM LO ON
Suction gage indicator	CHECK
Low vacuum may lead to misfunctioning of deicing, pressurization and gyroscopic va instruments	
I If necessary, fly to an altitude ≤ 12000 ft a conditions	and if possible return to VMC
"BLEED" switch	OFF

Rev. 0 Page 3.10.5

TBM PILOT'S OPERATING HANDBOOK __850__

3.10 - PRESSURIZATION AND AIR CONDITIONING

DEFOG MALFUNCTION

If moisture starts to quickly cover the inside of the windscreeen with the distributor already positioned on "DEFOG":

1 - "AIR FLOW" distributor Set to around a 10 o'clock position

If moisture continues:

2 - "AIR FLOW" distributor HOT
3 - "L. WINDSHIELD" switch ON
4 - "R. WINDSHIELD" switch ON
If there is no improvement and if the flight safety is engaged :
5 - Altitude
6 - "BLEED" switch OFF

NOTE:

If in flight, the cabin will quickly be depressurized. Therefore, the cabin vertical speed indicator and altimeter indications will rapidly meet those of respectively the aircraft VSI and altimeter.

Page 3.10.6 Rev. 0

DISCREPANCY WHEN LANDING GEAR GOES UP

 Red warning light on "LANDING GEAR" control panel remains flashing ON:

The red warning light on the landing gear control panel flashing at the end of maneuver indicates that the landing gear electrohydraulic pump still operates.

1 - "LDG GR" circuit breaker PULL

If the red warning light goes off:

The flight may be continued without any restriction. The electrohydraulic pump starting will be manually controlled with the "LDG GR" circuit breaker for the landing gear extension.

If the red warning light remains fixed ON, apply the following procedure:

- Red warning light on "LANDING GEAR" control panel remains fixed ON (whatever the condition of the green lights may be):

The red warning light on the landing gear control panel is fixed ON at the end of maneuver, the green indicator lights are ON or OFF:

- 1 Keep IAS ≤ 128 KIAS.
- 2 EXTEND the landing gear.



Rev. 0 Page 3.11.1

DISCREPANCY WHEN LANDING GEAR GOES UP (Cont'd)

If the fixed red warning light is still on :

Continue flight if necessary at a speed BELOW 178 KIAS, without icing conditions or land.

If landing gear does not lock (incorrect indication), refer to paragraph "DISCREPANCY WHEN LANDING GEAR GOES DOWN".

CAUTION

DO NOT ENTER ICING CONDITIONS (THIS COULD ADVERSELY INCREASE DRAG AND WEIGHT DUE TO ICE ACCUMULATION, AND LOCK WHEELS AND STRUTS).

CLIMB PERFORMANCE WILL BE DEGRADED BY 50 %.

INDICATED AIRSPEED AT CRUISE WILL BE DECREASED BY 50 KIAS.

THIS SHOULD BE TAKEN INTO ACCOUNT WHEN CALCULATING THE AIRCRAFT RANGE.

Page 3.11.2 Rev. 0

DISCREPANCY WHEN LANDING GEAR GOES DOWN

- Red warning light on "LANDING GEAR" control panel remains flashing ON (whatever the condition of the green lights may be):

The red warning light on the landing gear control panel flashing at the end of maneuver indicates that the landing gear electrohydraulic pump operates correctly.

1 - "LDG GR" circuit breaker PULL

If the red warning light goes off:

1 - "LDG GR" circuit breaker ...

2 - LAND.

If the red warning light remains fixed ON, apply the following procedure:

- Red warning light on "LANDING GEAR" control panel remains fixed ON (whatever the condition of the green lights may be):

The red warning light on the landing gear control panel is fixed ON at the end of maneuver, the green indicator lights are ON or OFF, extend the landing gear manually.

2 - Floor hatch OPEN
3 - By-pass selector FULLY PULL / LOCK
4 - Landing gear control
5 - Hand pump ACTUATE

with maximum amplitude

... PULL

CAUTION

THE ENTIRE EXTENSION OF THE LANDING GEAR TAKES
ABOUT 65 CYCLES. IT IS MANDATORY TO HAVE A CLEAN
HARDENING OF THE MANUAL CONTROL AT THE END OF
THE MANEUVER

Rev. 0 Page 3.11.3

DISCREPANCY WHEN LANDING GEAR GOES DOWN (Cont'd)

	DISONEI ANOT WHEN EANDING GEAR GOES DOWN (SOIRG)
6 -	"LDG GR" circuit breaker PUSH
7 -	"CHECK DN" inverter ACTUATE
	If the hardening of the manual control is marked and if the normal indicating shows 3 green indicator lights or the "CHECK DN" indicating shows 3 green indicator lights.
8 -	LAND.
	If the manual control remains soft or if one (or several) green indicator light(s) miss(es) on the normal indicating and on the "CHECK DN" indicating, the bad locking of a landing gear in down position is confirmed. Recycle the landing gear as follows:
9 -	By-pass selector UNLOCK / PUSH
10 -	Wait a minute.
11 -	Landing gear control (IAS ≤ 128 KIAS) UP
	Perform tests of landing gear extension in the NORMAL mode by applying positive load factors during the maneuver as well as skidding.
	In case of failure, refer to Chapter 3.7 "EMERGENCY LANDINGS", Paragraph "LANDING WITH UNLOCKED MAIN LANDING GEAR" or Paragraph "LANDING WITH DEFECTIVE NOSE LANDING GEAR".

Indication:

If a main landing gear is not in the down position, it is preferable to land with landing gear up (Refer to Chapter 3.7, Paragraph "LANDING WITH GEAR UP").

Page 3.11.4 Rev. 0

- IAS ≤ 178 KIAS

FLAPS MALFUNCTION".

- IAS ≤ 122 KIAS

3.11 - LANDING GEAR AND FLAPS

	RED WARNING LIGHT	FLAPS										
	Indicates a dissymmetry of flap deflection. This immediately stops the flap motor and prevents further operation of the flaps											
ı	1 - "FLAPS" circuit breaker		PULL									
	2 - Flap control lever		UP									
3 - SHORTEN flight maintaining airspeeds : - IAS ≤ 178 KIAS for deflections between "UP" and " positions												
	- IAS ≤ 122 KIAS for deflections gre	eater than "TO	O" position									
	4 - For landing, refer to Chapter 3.7, Paragraph "LANDING WITH FLAPS MALFUNCTION".											
	FLAPS MALFUNC	FLAPS MALFUNCTION										
-	In case of blockage of flaps or inoperant flap control lever between "UP" and "TO" positions, with no flaps warning light illumination:											
į	1 - "FLAPS" circuit breaker		PULL									
	2 - Flap control lever		UP									
	3 - SHORTEN flight maintaining airspeeds:	:										

Rev. 0 Page 3.11.5

4 - For landing, refer to Chapter 3.7, Paragraph "LANDING WITH

positions

for deflections between "UP" and "TO"

for deflections greater than "TO" position

SECTION 3 EMERGENCY PROCEDURES EASA Approved ${\bf TBM}$ PILOT'S OPERATING HANDBOOK ___850___

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Page 3.11.6 Rev. 0

LEADING EDGES DEICING FAILURE

Symptoms: Failure on one of the two pneumatic deicing pulses:

- Ice on wing outboard sections
- Or ice on wing inboard sections and stabilizers
- One of the two cycling green lights is not lit
- 1 LEAVE icing conditions as soon as possible
- 2 "AIRFRAME DE ICE" switch OFF

PROPELLER DEICING FAILURE

Symptoms: - Propeller deicing green light is not lit

- Propeller vibrations

- 1 REDUCE power
- 2 ACTUATE propeller governor lever to vary RPM within operating range
- 3 LEAVE icing conditions as soon as possible

INERTIAL SEPARATOR FAILURE

Symptoms: - Warning light is not lit within 30 seconds following "INERT SEP" switch setting ON

Neither torque drop, nor increase of ITT observed during maneuver

LEAVE icing conditions as soon as possible

Before landing wait for a sufficient visibility

WINDSHIELD DEICING FAILURE

Page 3.12.2 Rev. 0

WINDSHIELD MISTING OR INTERNAL ICING Symptoms: - Mist or ice on windshield internal face 1 - "CABIN TEMP/°C" selector Set to 21°C (12 o'clock position) 2 - "AIR FLOW" distributor Set to 10 o'clock position 3 - "L. WINDSHIELD" switch ON 4 - "R. WINDSHIELD" switch ON If not successful, to gain sufficient visibility: 5 - "AIR FLOW" distributor HOT 6 - Manually clean a sufficient visibility area 7 - If necessary, clean L.H. side window and conduct a sideslip approach (rudder pedals to the right) in order to get sufficient landing visual references 8 - For landing with flaps LDG, maintain:

Weight < 6250 lbs (2835 kg)	Weight > 6250 lbs (2835 kg)
IAS≥90 KIAS	IAS \geq 95 KIAS

CAUTION

IN CASE OF SIDESLIP APPROACH WITH PEDAL ON THE RIGHT DURING A LONG PERIOD, SELECT R.H. FUEL TANK

Rev. 0 Page 3.12.3

AMBER W	ARNING LIGHT	PITOT 1	PITOT 2						
	OR STALL HT	ON							
Indicates a heating failure of the corresponding probe									
PITOT 1 Icing conditions may alter airspeed indications on the airspeed indicator									
1 - AVOID icing	g conditions		j						
If it is not possible :									
2 - Perform mo	derate descent or climb	attitudes							
V _{MO} overst	nooting and stall warning	lights are alwa	ys operating						
PITOT 2	V _{MO} overshoot warn conditions	ing may be a	Itered by icing						
Monitor ma	ximum airspeed		. ≤266 KIAS						
STALL HTR	Correct operation of taltered by severe or pa		varning may be						
	and MAINTAIN minir	•	according to						

Page 3.12.4 Rev. 0

850 PILOT'S OPERATING HANDBOOK

3.13 - MISCELLANEOUS

RUNAWAY OF ONE OF THE THREE ELECTRICAL TRIM TABS

1 - "AP / DISC TRM INT" push button PRESSED AND HOLD
The three trim tabs are disconnected and runaway stops
2 - "AP / TRIMS MASTER" switch OFF
3 - "AP / DISC TRM INT" push button RELEASED
4 - Pitch trim may be used manually
5 - Reduce airspeed if necessary to reduce control forces
If pitch trim runaway
6 - "AP / TRIMS MASTER" switch
The pitch trim may be used manually, the two other trim tabs may be used again electrically
If rudder or aileron trim runaway
7 - PULL circuit breaker corresponding to the defective trim tab
8 - "AP / TRIMS MASTER" switch ON
Two other trim tabs may be used again electrically

CRACK IN COCKPIT WINDOW OR WINDOW PANEL

- 1 Descend slowly
- 2 Reduce cabin ΔP by selecting a higher cabin altitude and the maximum cabin rate

EMERGENCY EXIT USE

- 1 Check that the anti-theft safety pin has been removed
- 2 Lift up the opening handle
- 3 Pull emergency exit assembly toward oneself to release it from its recess
- 4 Put the emergency exit door inside fuselage or throw it away from the fuselage through the opening
- 5 EVACUATE airplane

EMERGENCY BEACON USE (ELT)

Before a forced landing:

1 - On COM VHF 121.5 MHZ or on a known air traffic control frequency, transmit the "MAY DAY" signal if possible

After landing:

2 -	"ELT"	remote	control	switch	 							٠.				ON
					(m	aiı	nta	in	it C	N	u	ntil	aic	l a	rriv	/es)

Page 3.13.2 Rev. 0

TOTAL COMMUNICATION FAILURE

- 1 Refer to PARTICULAR TRANSPONDER USES procedures
- 2 Apply air traffic control procedures in case of communications failure:
 - code 7700 during 1 minute, then
 - code 7600
- 3 Try to restore communications by using all possible combinations of the headset, micro and loudspeaker

MAIN GYRO HEADING FAILURE

Use standby compass

CAUTION

"L. WINDSHIELD" AND "R. WINDSHIELD" SWITCHES, AS WELL AS AIR CONDITIONING SYSTEM MUST BE SET TO "OFF"

BEFORE COMPASS READING

Rev. 0 Page 3.13.3

 \overline{TBM} PILOT'S OPERATING HANDBOOK __850__

3.13 - MISCELLANEOUS

PARTICULAR TRANSPONDER USES

1 - Check transponder mode selector ON or ALT

2 - Codes selector: 7700 EMERGENCY DISTRESS

7600 COMMUNICATIONS FAILURE

7500 HIJACKING

ACCIDENTAL SPINS

(Voluntary spins are prohibited)

In case of accidental spins

1 - Control wheel **NEUTRAL : PITCH AND**

ROLL

2 - Rudder FULLY OPPOSED TO THE SPIN

3 - Power lever IDLE

5 - Level the wings and ease out of the dive

Page 3.13.4 Rev. 0

OXYGEN USE

WARNING

SMOKING IS STRICTLY PROHIBITED ANY TIME OXYGEN SYSTEM IS USED.

BEFORE USING OXYGEN, REMOVE ANY TRACE OF OIL, GREASE, SOAP AND OTHER FATTY SUBSTANCES (INCLUDING LIPSTICK, MAKE UP, ETC...)

Front seats

- 1 Take a mask on the opposite seat side (pilot: R.H. side; R.H. front passenger: L.H. side): draw it out of the stowage cup and uncoil tube totally. Press on the red side vanes to inflate the harness. Put the mask on the face.



and, if possible, below 10000 ft.

Rev. 0 Page 3.13.5

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PILOT'S OPERATING HANDBOOK	_	850	

OXYGEN USE (Cont'd)

Passengers

- 1 Take a mask.
- 2 Uncoil tube totally.
- 3 Pull on the lanyard cord to take out the lanyard pin.
- 4 Put the mask on the face.

Page 3.13.6 Rev. 0

AIRSPEED INDICATING SYSTEM FAILURE

Symptoms: erroneous indication in flight

2 - "PITOT 2 & STALL HTR" switch CHECK ON

If symptoms persist:

3 - "ALTERNATE STATIC" selector PULL THROROUGHLY

If symptoms persist, as well as on the airspeed indicator of the R.H instrument panel, carry out a precautionary approach maintaining an adequate speed.

Rev. 0 Page 3.13.7

FLIGHT INTO SEVERE ICING CONDITIONS

Severe icing conditions, particularly freezing rain and freezing drizzle, can be identified by :

- unusually extensive ice accumulation on the airframe and windshield in areas not normally observed to collect ice,
- accumulation of ice on the upper surface of the wing aft of the protected area.

Procedures for exiting freezing rain or freezing drizzle conditions:

- Inform Air Traffic Control to exit severe icing conditions by changing the route or the altitude.
- 2 Avoid any sudden maneuver on flight controls.
- 3 Do not engage the autopilot.
- 4 If the autopilot is engaged, hold the control wheel firmly and disengage the autopilot.
- 5 If an unusual roll response or uncommanded roll control movement is observed, reduce the angle-of-attack.
- 6 Do not extend flaps when holding in icing conditions. Operation with flaps extended can result in a reduced wing angle-of-attack, with the possibility of ice forming on the upper surface further aft on the wing than normal, possibly aft of the protected area.
- 7 If the flaps are extended, do not retract them until the airframe is clear of ice.

Page 3.13.8 Rev. 0