SECTION 3

EMERGENCY PROCEDURES

TABLE OF CONTENTS

		Page
3.1	GENERAL	3.1.1
3.2	REJECTED TAKEOFF PROCEDURE	3.2.1
3.3	ENGINE FAILURES ENGINE FAILURE AT TAKEOFF BEFORE ROTATION ENGINE FAILURE AFTER ROTATION ENGINE FAILURE DURING FLIGHT OIL PRESSURE DROP ENGINE REGULATION DISCREPANCY, POWER LOSS,	3.3.1 3.3.2 3.3.3 3.3.4
	POWER LEVER CONTROL LOSS	3.3.5 3.3.7 3.3.8
	RED WARNING LIGHT ITT ON	3.3.9
	ENGINE DOES NOT STOP ON GROUND	3.3.11
3.4	AIR START AIR START ENVELOPE AIR START WITH STARTER AIR START WITHOUT STARTER (STARTER ASSIST NOT MANDATORY)	3.4.1 3.4.1 3.4.2 3.4.4
3.5	FIRE AND SMOKE ENGINE FIRE ON GROUND CABIN FIRE ON GROUND ENGINE FIRE IN FLIGHT CABIN ELECTRICAL FIRE OR SMOKE DURING FLIGHT SMOKE ELIMINATION	3.5.1 3.5.1 3.5.1 3.5.2 3.5.3 3.5.5

PILOT'S OPERATING HANDBOOK ____700___

TABLE OF CONTENTS

(Continued)

				Page
3.6	EMERGENCY DESCE PROCEDURE IN SMOOTH PROCEDURE IN ROUGH A PROBLEM	I AIR AIR OR IN CASE O		3.6.1 3.6.1 3.6.1
3.7	EMERGENCY LANDII GLIDE DISTANCE AND OF FORCED LANDING (ENGIR TIRE BLOWOUT DURING I LANDING WITH UNLOCKE LANDING WITH DEFECTIV (DOWN UNLOCKED OR N LANDING WITH GEAR UP LANDING WITHOUT ELEV LANDING WITHOUT FLAP DITCHING	PTIMUM SPEED . NE CUT OFF) LANDING D MAIN LANDING /E NOSE LANDING IOT DOWN) ATOR CONTROL S	G GEAR	3.7.1 3.7.2 3.7.3 3.7.4 3.7.6 3.7.7 3.7.8 3.7.8 3.7.9
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
	RED WARNING LIGHT	BAT OVHT	ON	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 "MAII	N GEN"	 	3.9.3

TABLE OF CONTENTS

(Continued)

				Page
	AMBER WARNING LIGHT	LO VOLT	ON	
0.40	functioning on "ST-BY GEI (after "MAIN GEN" failure) ELECTRICAL DISTRIBUTI "RADIO MASTER" SWITC	ION OF BUS BARS	S	3.9.4 3.9.6 3.9.8
3.10	PRESSURIZATION A	IND AIR COND	ITIONING	3.10.1
	RED WARNING LIGHT	CAB PRESS	ON	3.10.1
	CABIN NOT DEPRESSUR	IZED AFTER LANI	OING	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 LAD DISCREPANCY WHEN LAD	NDING GEAR GO		3.11.1 3.11.1 3.11.3
	RED WARNING LIGHT	FLAPS	ON	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 ILURE 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

TBM

PILOT'S OPERATING HANDBOOK ____700___

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

Page 3.0.4 Rev. 0

TBM
_________ PILOT'S OPERATING HANDBOOK

SECTION 3 EMERGENCY PROCEDURES D.G.A.C. 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

MASTER WARNING

MASTER CAUTION

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
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 ____700___ D.G.A.C. Approved

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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 IAS > 80 KIAS
2 - Power lever
3 - Condition lever CUT OFF
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 IAS > 100 KIAS, Flaps UP IAS > 90 KIAS, Flaps TO
4 - Power lever
5 - Propeller governor lever FEATHER
Before touch-down:
6 - Condition lever CUT OFF
7 - Tank selector OFF
8 - CRASH lever PULL DOWN

Page 3.3.2 Rev. 0

Rev. 0 Page 3.3.3 **TBM**

3.3 - ENGINE FAILURES

	DIL PRESS	SURE DROP	
RED WARNING LIGHT	OIL PRESS	ON	
1 - Oil pressure ind	icator	CHEC	ж
2 - If the indicated p	oressure is con	rect SHORTEN TH FLIGHT / MONITO	
3 - If indicated pres below the green		CONFIRMED FAILUR	RE
•	tch and therefore.	the propeller blade angle may fore lead to a Np propeller rotation	-
PREPARE FOR AN ENGINE STOP, SHORTLY; REDUCE POWER TO THE MINIMUM NECESSARY, LAND AS SOON AS PRACTICAL			
If engine power drop	s itself :		
4 - Power lever		IDI	_E
5 - Propeller govern	nor lever	FEATHE	:R
6 - Condition lever		CUT OI	FF
Perform a FORCED	LANDING (Re	efer to Chapter 3.7)	

Rev. 0 Page 3.3.4

1 - If circumstances allow:

3.3 - ENGINE FAILURES

ENGINE REGULATION DISCREPANCY, POWER LOSS, POWER LEVER CONTROL LOSS

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

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



Rev. 0 Page 3.3.5

TBM PILOT'S OPERATING HANDBOOK __700__

3.3 - ENGINE FAILURES

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
3 - If ITT > 800°C : "INERT SEP" switch
4 - Landing gear control
5 - Flaps
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

Page 3.3.6 Rev. 0

SECTION 3 EMERGENCY PROCEDURES D.G.A.C. Approved

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 are no longer warrantied. The airplane must be repaired mandatorily before any other flight.

Rev. 0 Page 3.3.7

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3.3 - ENGINE FAILURES

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.
- 1 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.

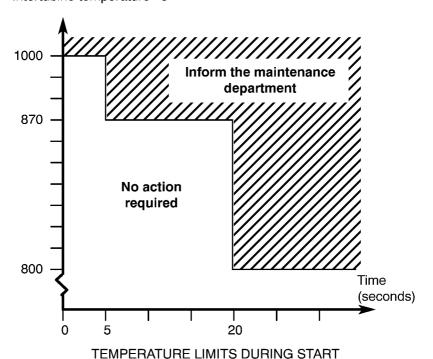
A go-around would damage the propeller reducer.

Page 3.3.8 Rev. 0

RED WARNING LIGHT IIT ON

Indicates that ITT exceeds 800°C

During an engine start
Intertubine temperature °C



If the above diagram limits are exceeded:

1 - ITT indicator CHECK

2 - Stop the starting procedure.



Rev. 0 Page 3.3.9

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3.3 - ENGINE FAILURES

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 5.7

If ITT remains > 800°C:

- 3 Reduce power to maintain ITT < 800°C.
- 4 Shorten the flight.
- 5 Record the airplane and engine parameters read in case of overtemperature.
- 6 Inform maintenance department at the end of the flight.

Page 3.3.10 Rev. 0

ENGINE DOES NOT STOP ON GROUND

If the engine does not stop when the condition lever is set to CUT OFF, proceed as follows:

1 - "AP / TRIMS MASTER" switch OFF

2 - "RADIO MASTER" switch OFF

3 - "INT. LIGHTS" panel All switches OFF

4 - "EXT. LIGHTS" panel All switches OFF

5 - "ECS" panel All switches OFF

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

Rev. 0 Page 3.3.11

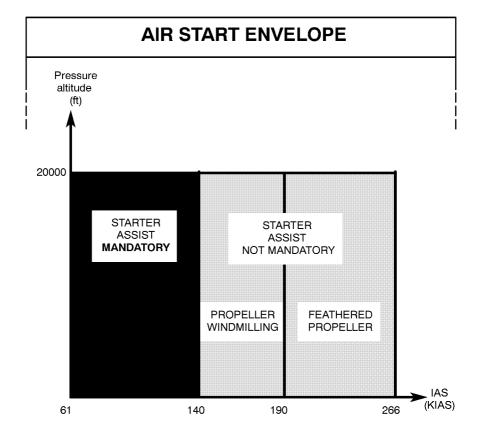
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Rev. 0 Page 3.3.12

3.4 - AIR START



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.



Rev. 0 Page 3.4.1

3.4 - AIR START

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 ON MAY CAUSE OVERTEMPERATURE OR ABNORMAL ACCELERATION

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



Page 3.4.2 Rev. 0

SECTION 3 EMERGENCY PROCEDURES D.G.A.C. Approved

3.4 - AIR START

AIR START WITH STARTER (Cont'd

– Condition lever LO / IDL when Ng \sim 13	
- ITT and Ng MONITO)R
- When Ng \sim 50 % steady \dots IGNITION AUTO or O	
- Condition lever	_E
- Propeller governor lever	'n
- Power lever	ΞD
- Electrical equipment AS REQUIRE	ΞD
- "AUX BP" fuel switch AUT	ГО
- "RLEED" ewitch	בח

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. 3 Page 3.4.3

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
--------------------	--	-----

CAUTION

"BLEED" SWITCH ON MAY CAUSE OVERTEMPERATURE OR ABNORMAL ACCELERATION

OFF	2 - "AIR COND" switch
140 < IAS< 190 KIAS	 Air start envelope
REDUCE	- Electrical consumption
IDLE	- Power lever
CUT OFF	5 - Condition lever
CHECK	' - Tank selector
ON	"ALIX DD" fuel excited



Page 3.4.4 Rev. 0

SECTION 3 EMERGENCY PROCEDURES D.G.A.C. Approved

3.4 - AIR START

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

ON	9 - "IGNITION" switch
LO / IDLE	10 - Condition lever
MONITOR	11 - ITT and Ng
IGNITION AUTO or ON	12 - When Ng ~ 50 % steady .
HI / IDLE	13 - Condition lever
MAX. RPM	14 - Propeller governor lever .
AS REQUIRED	15 - Power lever
AS REQUIRED	16 - Electrical equipment
AUTO	17 - "AUX BP" fuel selector
AS DECLIDED	10 "PLEED" owitch

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. 3 Page 3.4.5

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Rev. 0 Page 3.4.6

3.5 - FIRE AND SMOKE

ENGINE FIRE ON GROUND
Symptoms: ITT increasing, red warning light ITT on,
smoke,
^I 1 - Power lever
2 - Condition lever CUT OFF
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 AS REQUIRED
4 - Warn for ground assistance, if necessary
5 - CRASH lever PULL DOWN
6 - Cabin extinguisher
7 - EVACUATE as soon as possible

Rev. 0 Page 3.5.1 **TBM**

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

Rev. 0 Page 3.5.2

3.5 - FIRE AND SMOKE

CABIN ELECTRICAL FIRE OR SMOKE DURING FLIGHT

If the origin is known: 1 - Oxygen USE AS REQUIRED (pilot and passengers) 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.

Rev. 0 Page 3.5.3

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3.5 - FIRE AND SMOKE

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

If smoke or fire persists :
5 - "SOURCE" selector OFF
6 - "GENERATOR" selector OFF
7 - Fire EXTINGUISH if necessary with the on board extinguisher
8 - All "pull-off" type circuit-breakers PULL
9 - All electrical equipment
10 - "SOURCE" selector BAT
11 - "GENERATOR" selector MAIN
12 - Necessary circuit-breakers ENGAGE one after the other checking for possible fire or smoke
13 - Necessary electrical equipment ON one after the other checking for possible fire or smoke
14 - Defective equipment OFF
15 - Not affected essential equipment ON as required
16 - LAND as soon as possible

Page 3.5.4 Rev. 0

3.5 - FIRE AND SMOKE

SMOKE ELIMINATION
1 - Smoke origin IDENTIFY
2 - Oxygen
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 PILOT'S OPERATING HANDBOOK ___700___ D.G.A.C. Approved

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Rev. 0 Page 3.5.6

3.6 - EMERGENCY DESCENTS

PROCEDURE IN SMOOTH AIR
1 - Power lever
2 - Oxygen If necessary
3 - Propeller governor lever
4 - Flaps
5 - Landing gear
6 - Speed

PROCEDURE IN ROUGH AIR OR IN CASE OF STRUCTURE PROBLEM

1 - Power lever
2 - Oxygen If necessary
3 - Propeller governor lever MAX. RPM
4 - Reduce speed IAS ≤ 178 KIAS
5 - Landing gear
6 - Flaps
7 - Keep IAS ≤ 178 KIAS

Rev. 0 Page 3.6.1 **SECTION 3** EMERGENCY PROCEDURES PILOT'S OPERATING HANDBOOK ___700___ D.G.A.C. Approved

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Rev. 0 Page 3.6.2

3.7 - EMERGENCY LANDINGS

GLIDE DISTANCE AND OPTIMUM SPEED
Configuration
1 - Flaps UP
2 - Landing gear
3 - Propeller governor lever FEATHER
4 - Optimum speed (L / D ratio = 10) IAS = 110 KIAS

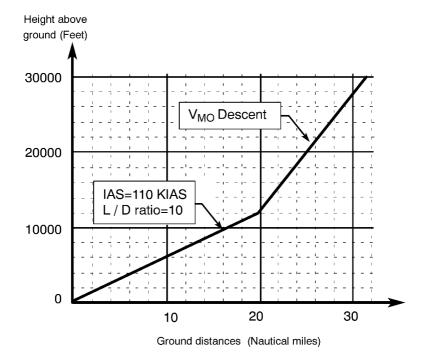


Figure 3.7.1 - MAXIMUM GLIDE SLOPE

Rev. 0 Page 3.7.1

3.7 - EMERGENCY LANDINGS

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** 7 - "AIR COND" switch **OFF** favourable ground approach If ground allows it: If ground does not allow it: 12 - When chosen ground is assured FLAPS LDG 13 - CRASH lever PULL DOWN 14 - Final approach IAS = 80 KIAS 15 - Land flaring out 16 - EVACUATE after stop

Page 3.7.2 Rev. 0

3.7 - EMERGENCY LANDINGS

TIRE BLOWOUT DURING LANDING

1 – Co	ontrol dire	ction 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 ____700__

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 :

- 4 Maintain tank selector on defective landing gear side to lighten corresponding wing [maximum fuel imbalance 25 us gal (95 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

3.7 - EMERGENCY LANDINGS

LANDING WITH UNLOCKED MAIN LANDING GEAR (Cont'd)

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

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3.7 - EMERGENCY LANDINGS

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

GLAN (BOWN GREGORED ON NOT BOWN)
1 - Transfer passengers to the rear, if necessary
2 - Approach
3 - Land with nose-up attitude, keep nose high
4 - Condition lever
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

3.7 - EMERGENCY LANDINGS

Rev. 0 Page 3.7.7

TRM

3.7 - EMERGENCY LANDINGS

LANDING WITHOUT ELEVATOR CONTROL

- 1 Configuration LANDING GEAR DN FLAPS LDG
- 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

LANDING WITHOUT FLAPS

Proceed as for a normal landing, maintaining approach airspeed IAS = 100 KIAS

Provide for a landing distance increased by about 60 %

Page 3.7.8 Rev. 0

3.7 - EMERGENCY LANDINGS

DITCHING		
1 - Landing gear		
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 as possible when approaching the water		
4 - Airspeed IAS = 80 KIAS		
5 - "BLEED" switch OFF		
6 - "DUMP" switch ACTUATED		
7 - CRASH lever PULL DOWN		
8 - Maintain attitude without rounding off until touch-down		
9 - EVACUATE through EMERGENCY EXIT		

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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 : ON Warning light AUX BP ON on CHECK 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) and if warning **FUEL PRESS** remains on : 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

TBM PILOT'S OPERATING HANDBOOK ___700__

3.8 - FUEL SYSTEM

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

10 - Avoid high power and rapid movements of the power lever.
11 - Descend to an altitude below 20000 ft.

12 - Land as soon as possible.

Page 3.8.2 Rev. 0

3.8 - FUEL SYSTEM

AN	MBER WA	RNING LIGHT	AUX BP ON	ON
(Indication is normal if "AUX BP" fuel switch is in ON position)				
If "A	If "AUX BP" fuel switch is in AUTO position :			
' 1 - Res	set to			ON
2 - The	en to			AUTO
If	AUX BP ON	warning light goes oเ	ıt, continue fligh	nt normally
lf	AUX BP ON	warning light remain	s on, mechanic	al booster
pur	np has failed			
l In t	hat case :			
3 - "AL	JX BP" fuel swi	itch		ON
4 - Sho	orten flight			

Rev. 0 Page 3.8.3 PILOT'S OPERATING HANDBOOK ____700___

3.8 - FUEL SYSTEM

AMBER WARNING LIGHT	AUTO SEL	ON	
Indicates that the mode control automatic timer is off or has failed 1 - "FUEL SEL" switch			
2 - If it is on AUTO: confirmed failure 3 - "FUEL SEL" switch		MAN	

Page 3.8.4 Rev. 0

3.9 - ELECTRICAL SYSTEM

RED WARNING LIGHT	BAT OVHT	ОИ	
(if Cadmium-Nickel battery installed)			
Indicates a battery overheat			
1 - "SOURCE" selector	<u></u>	OFF	
 Warning Lid 	GHT BAT	OFF ON	
2 - Monitor airplane mains voltage			
3 - LAND AS SOON AS POSSIBLE			
REMARK: In case of subsequent electrical gene be used again by selecting:	rator failure, the	e battery can	
4 - "GENERATOR" selector	<u></u>	OFF	
WARNING LIC	GHT MAIN	GEN ON	
l 5 - "SOURCE" selector		BAT	
6 - Refer to paragraph "AMBER WARNII functioning on "ST-BY GENERATOR"			

Rev. 0 Page 3.9.1

TBM

3.9 - ELECTRICAL SYSTEM

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 CORRECT
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 - Only use landing lights briefly and if necessary.
5 - "GENERATOR" selector

Rev. 0 Page 3.9.2

3.9 - ELECTRICAL SYSTEM

AMBER WARNING LIGHT LO VOLT C	N
1 - Voltmeter voltage	
3 - Disconnect following ancillary electrical systems: - "AIR COND" switch - "STROBE" switch - "NAV" switch - "CABIN" lights switch - "AP / TRIMS MASTER" switch - All equipment not essential - "L.WINDSHIELD" switch (above 15 000 ft)	OFF OFF OFF OFF
 "R.WINDSHIELD" switch (above 15 000 ft) "BLEED" switch (before landing and on ground) Only use landing lights briefly and if necessary. 	
 4 - "GENERATOR" selector	essary)

Rev. 0 Page 3.9.3

If successful:

PILOT'S OPERATING HANDBOOK ____700_

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

7 - Disconnect ancillary electrical systems not essential

8 - Monitor voltmeter and ammeter

Prepare to SHORTEN FLIGHT



Page 3.9.4 Rev. 0

14 - LAND as soon as possible

SECTION 3 EMERGENCY PROCEDURES D.G.A.C. Approved

3.9 - ELECTRICAL SYSTEM

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 - Descend
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 all ancillary systems which are not essential

Rev. 0 Page 3.9.5

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PILOT'S OPERATING HANDBOOK ____700__

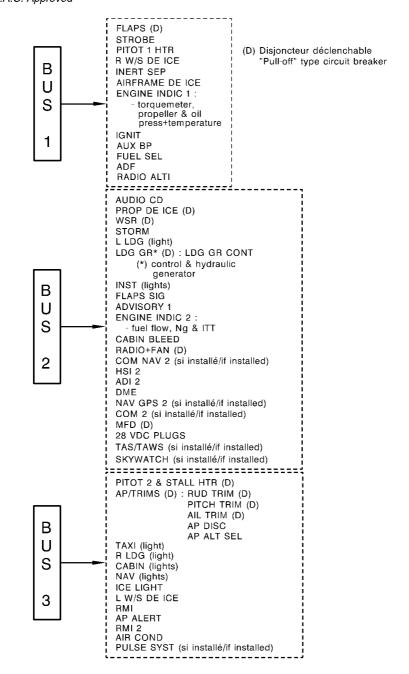


Figure 3.9.1 (1/2) - ELECTRICAL DISTRIBUTION OF BUS BARS

Page 3.9.6 Rev. 0

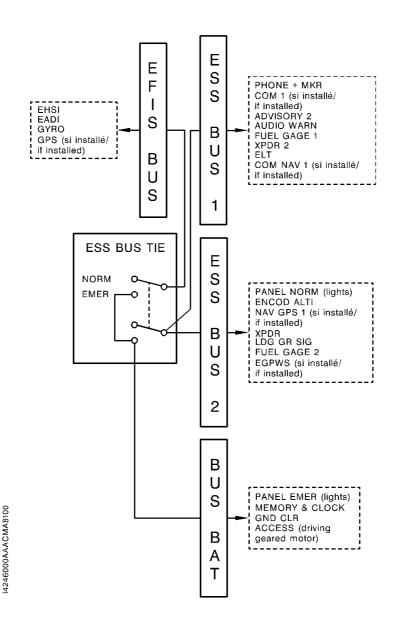


Figure 3.9.1 (2/2) - ELECTRICAL DISTRIBUTION OF BUS BARS

Rev. 0 Page 3.9.7

PILOT'S OPERATING HANDBOOK _____700__

TBM

3.9 - ELECTRICAL SYSTEM

"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.

Page 3.9.8 Rev. 0

3.10 - PRESSURIZATION AND AIR CONDITIONING

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 ON
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)

CABIN NOT DEPRESSURIZED AFTER LANDING

1 - "DUMP" switch ACTUATED
2 - "BLEED" switch OFF
3 - "RAM AIR" control knob PULLED if necessary
4 - Wait for complete cabin depressurization before opening the door

 ΔP cabin > 0

Rev. 0 Page 3.10.1 ${\bf TBM}$ pilot's operating handbook __700__

3.10 - PRESSURIZATION AND AIR CONDITIONING

Page 3.10.2 Rev. 0

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 CABIN
3 - "CABIN TEMP/"C" selector
4 - "BLEED" switch OFF
5 - As soon as BLEED TEMP OFF, "BLEED" switch ON
6 - If BLEED TEMP and BLEED OFF ON and 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

TBM

3.10 - PRESSURIZATION AND AIR CONDITIONING

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

SECTION 3 D.G.A.C. Approved

3.10 - PRESSURIZATION AND AIR CONDITIONING

AMBER WARNING LIGHT VACUUM LO ON
Suction gage indicator CHECK
Low vacuum may lead to misfunctioning of leading edge deicing, pressurization and gyroscopic vacuum-operated instruments
If necessary, fly to an altitude ≤ 12000 ft and if possible return to VMC conditions
"BLEED" switch OFF

Rev. 0 Page 3.10.5

TBM PILOT'S OPERATING HANDBOOK ____700__

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

3.11 - LANDING GEAR AND FLAPS

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

PILOT'S OPERATING HANDBOOK ____700___

TBM

3.11 - LANDING GEAR AND FLAPS

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

3.11 - LANDING GEAR AND FLAPS

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:

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.

1 - "LDG GR" circuit breaker PULL

2 - Floor hatch OPEN

3 - By-pass selector FULLY PULL / LOCK

with maximum amplitude

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

TBM PILOT'S OPERATING HANDBOOK __700__

3.11 - LANDING GEAR AND FLAPS

DISCREPANCY WHEN LANDING GEAR GOES DOWN (Cont'd)

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 \leq 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:

Page 3.11.4 Rev. 0

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").

SECTION 3 D.G.A.C. Approved

3.11 - LANDING GEAR AND FLAPS

	RED WARNING LIGHT FLAPS ON
	Indicates a dissymmetry of flap deflection. This immediately stops the flap motor and prevents further operation of the flaps
j	1 - "FLAPS" circuit breaker PULL
	2 - SHORTEN flight maintaining airspeeds : - IAS ≤ 178 KIAS for deflections between "UP" and "TO" positions
	- IAS ≤ 122 KIAS for deflections greater than "TO" position

Rev. 0 Page 3.11.5 SECTION 3 EMERGENCY PROCEDURES D.G.A.C. Approved

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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

Rev. 0 Page 3.12.1

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

WINDSHIELD DEICING FAILURE

Page 3.12.2 Rev. 0

WINDSHIELD MISTING OR INTERNAL ICING

8 - Maintain IAS ≥ 90 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 LI	GHT 🗌	PITOT 1	PITOT 2
	OR s	TALL HTR	ON	
Indicates a heat	ting failure of the	correspon	ding probe	
PITOT 1	lcing condition airspeed indica		airspeed in	dications on the
1 - AVOID icinç	g conditions			
If it is not po	ossible :			
2 - Perform mo	derate descent	or climb atti	itudes	
V _{MO} oversh	nooting and stall	warning ligi	hts are alwa	ys operating
PITOT 2	V _{MO} overshoo conditions	ot warning	may be a	Itered by icing
Monitor ma	ximum airspeed			≤266 KIAS
STALL HTR	Correct opera- altered by seve			arning may be
MONITOR	and MAINTAII	V minimun	n airspeed	according to

airplane configuration and icing conditions

Page 3.12.4 Rev. 0

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
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

Rev. 0 Page 3.13.1

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 ON (maintain it ON until aid arrives)

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

PARTICULAR TRANSPONDER USES

1 - Check transponder mode selector ON or ALT

2 - Codes selector: 7700 EMERGENCY DISTRESS

7600 COMMUNICATIONS FAILURE

when rotation is stopped

7500 HIJACKING

ACCIDENTAL SPINS

(Voluntary spins are prohibited)	
In case of accidental spins	
1 - Control wheel	NEUTRAL : PITCH AND ROLL
2 - Rudder	JLLY OPPOSED TO THE SPIN
3 - Power lever	IDLE
4 - Flaps	UP

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.

the mask on the face.
2 - No smokes : 3-position selector
3 - In case of smokes : 3-position selector
4 - "PASSENGERS OXYGEN" switch ON
5 - Check the oxygen flow indicator for the front seats (the blinker is transparent) and for the rear passengers (the blinker is green).
6 - "NORMAL/MASK" micro inverter MASK
7 - Audio selector selection mode PILOT or ISO



and, if possible, below 10000 ft.

Rev. 0 Page 3.13.5

8 - Perform an emergency descent to the "En route" minimum altitude

TBM PILOT'S OPERATING HANDBOOK __700__

3.13 - MISCELLANEOUS

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:

- 1 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