# **SECTION 2**

## **LIMITATIONS**

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#### 2.1 - GENERAL

"TBM 850" is the trade name of the TBM 700 "N version" airplane (TBM 700 type), which is certified in the Normal Category.

This airplane must be flown in compliance with the limits specified by placards or markings and with those given in this Section and throughout the Pilot's Operating Handbook.

This Section of the airplane Pilot's Operating Handbook presents the various operating limitations, the significance of such limitations, instrument markings, color coding, and basic placards necessary for the safe operation of the airplane, its powerplant and installed equipment.

The limitations included in this Section have been approved by the Federal Aviation Administration in accordance with 14 CFR Section 21.29.

The limitations for optional systems are given in Section 9, "Supplements" of the Pilot's Operating Handbook.

TBM 700 airplane is certified under EASA.A.010 and FAA N° A60EU Type Certificates.

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## 2.2 - AIRSPEED LIMITATIONS

Airspeed limitations and their operational significance are shown in Figure 2.2.1.

	SPEED	KCAS	KIAS	REMARKS
V <sub>MO</sub>	Maximum operating speed	270	266	Do not intentionally exceed this speed in normal flight category
V <sub>A</sub>	Maneuvering speed	160	158	Do not make abrupt or full control movements above this speed
V <sub>FE</sub>	Maximum flaps extended speed : landing configuration takeoff configuration	120 180	122 178	Do not exceed these speeds depending on flaps position
V <sub>LO</sub>	Maximum landing gear operating speed : extension retraction	180 130	178 128	Do not extend or retract landing gear above this speed
V <sub>LE</sub>	Maximum landing gear extended speed	180	178	Do not exceed this speed with landing gear extended
	Maximum inertial separator operating speed	203	200	No limitation when inertial separator is in fixed position

Figure 2.2.1 - AIRSPEED LIMITATIONS

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## 2.3 - POWERPLANT LIMITATIONS

#### **ENGINE**

Number of engines: 1

Engine manufacturer: PRATT & WHITNEY CANADA

Engine model number: PT6A - 66D

Maximum power:

Flaps set to UP, TO or LDG position	Flaps set to 850 position
- 100 % at Np = 2000 RPM	101.4.9/ of No. 2000 DDM
- 110 % at Np = 1800 RPM	- 121.4 % at Np = 2000 RPM

## Ng limitation:

104.1 %

## Np limitation:

2000 RPM

## ITT limitations:

Take off : 850°CMaximum climb/cruise : 840°C

- During start : 870°C for 20 seconds max.

1000°C for 5 seconds max.

#### CAUTION

# WHEN NORMALLY OPERATING, REFER TO CHAPTER 5.8 "ENGINE OPERATION" TABLES

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OIL

#### **CAUTION**

### DO NOT MIX DIFFERENT BRANDS OR TYPES OF OIL

Maximum oil temperature: 104 °C

Oil pressure:

Minimum : 60 psi Maximum : 135 psi

Oil capacity:

System total capacity: 12.7 Quarts (12 Litres) (Oil cooler included)

Usable capacity: 6 Quarts (5.7 Litres)

Oil grade (Specification):

Nominal viscosity	US specification (US)	French specification (FR)	English specification (UK)	NATO code
Type 5cSt	MIL-L-23699C Amdt 1	MIL-L-23699C Amdt 1	DERD 2499 Issue 1	O.156

Figure 2.3.1 - ENGINE OIL RECOMMENDED TYPE (Reference : Service Bulletin P & W C. No. 14001)

#### **FUEL**

Fuel pressure:

Minimum : 10 psi Maximum : 50 psi

Fuel limitations:

2 tanks: 145.3 us gal (550 Litres) each Total fuel: 290.6 us gal (1100 Litres) Usable fuel: 281.6 us gal (1066 Litres) Unusable fuel: 9 us gal (34 Litres)

Maximum fuel imbalance: 15 us gal (57 Litres)

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#### NOTE:

Usable fuel can be safely used during all normal airplane maneuvers.

#### CAUTION

THE FUEL USED MUST CONTAIN AN ANTI-ICE ADDITIVE, IN ACCORDANCE WITH SPECIFICATION MIL-I-27686D OR E OR MIL-I85470A. ADDITIVE CONCENTRATIONS (EGME OR DIEGME) SHALL BE COMPRISED BETWEEN A MINIMUM OF 0.06 % AND A MAXIMUM OF 0.15 % BY VOLUME. REFER TO SECTION 8 "HANDLING, SERVICING AND MAINTENANCE" FOR ADDITIONAL INFORMATION.

THE USE OF AVIATION GASOLINE (AVGAS) MUST BE RESTRICTED TO EMERGENCY PURPOSES ONLY. AVGAS SHALL NOT BE USED FOR MORE THAN 150 CUMULATIVE HOURS DURING ANY PERIOD BETWEEN ENGINE OVERHAUL PERIODS

NOTE: Use of AVGAS to be recorded in engine module logbook.

US Specification (US)	French Specification (FR)	English Specification (UK)	NATO Code
ASTM-D1655 JET A ASTM-D1655 JET A1 ASTM-D1655 JET B		DERD 2494 Issue 9	F35 without additive
MIL-T-5624L Amdt1 Grade JP-4	AIR 3407B	DERD 2454 Issue 4 Amdt 1	F40 with additive
MIL-T-5624L Amdt1 Grade JP-5	AIR 3404C Grade F44	DERD 2452 Issue 2 Amdt 1	F44 with additive when utilization
MIL-T-83133A Amdt1 Grade JP-8	AIR 3405C Grade F34	DERD 2453 Issue 4 Amdt 1	F34 with additive S748
	AIR 3404C Grade F43	DERD 2498 Issue 7	F43 without additive

Figure 2.3.2 - RECOMMENDED FUEL TYPES (Reference : Service Bulletin P & W C. No. 14004)

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## **PROPELLER**

Number of propellers: 1

Propeller manufacturer : HARTZELL

Propeller model number: HC-E4N-3 / E9083S (K)

Propeller diameter:

Minimum: 90 inches (2.286 m) Maximum: 91 inches (2.311 m)

Propeller blade setting at 30 inches station:

Low pitch : 21° Feathering : 86°

Maximum reverse: - 11°

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SECTION 2 LIMITATIONS D.G.A.C. Approved EASA Approved

## 2.4 - STARTER OPERATION LIMITS

Starter operation sequence is limited as follows:
if Ng $\leq$ 30 %
if Ng > 30 % 60 seconds
Should several sequences be necessary, respect following spacing :
1st sequence
wait
2nd sequence
wait
3rd sequence
wait
4th sequence

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## 2.5 - WEIGHT AND C.G. LIMITS

#### **WEIGHT LIMITS**

Maximum ramp weight: 7430 lbs (3370 kg)
Maximum takeoff weight: 7394 lbs (3354 kg)
Maximum landing weight: 7024 lbs (3186 kg)

Maximum zero fuel weight (MZFW): 6032 lbs (2736 kg)

Maximum baggage weight:

in rear part of pressurized cabin : 220 lbs (100kg)in non pressurized aft compartment : 77 lbs (35 kg)

#### C.G. LIMITS - see Figure 6.4.2

Center of gravity range with landing gear down and flaps up, attitude 0°:

### Forward limits:

181.3 inches (4.604 m) aft of datum at 4409 lbs (2000 kg) or less (14 % of m.a.c)

183.6 inches (4.664 m) aft of datum at 6250 lbs (2835 kg) (18 % of m.a.c) 185.3 inches (4.707 m) aft of datum at 6579 lbs (2984 kg) (20.85 % of m.a.c) 187 inches (4.752 m) aft of datum at all weights above 7024 lbs (3186 kg) (23.8 % of m.a.c)

#### Aft limits:

194.9 inches (4.951 m) aft of datum at all weights below 6250 lbs (2835 kg) (37 % of m.a.c.)

194.3 inches (4.936 m) aft of datum at 6579 lbs (2984 kg) (36 % of m.a.c.) 193.65 inches (4.921 m) aft of datum at 7394 lbs (3354 kg) (35 % of m.a.c.)

Reference datum: 118.1 inches (3 m) in front of the firewall front face. Straight line variation between points.

Leveling point: Cabin floor rails.

#### NOTE:

It is the responsibility of the pilot to insure that the airplane is properly loaded. See Section 6 "Weight and Balance" for proper loading instructions.

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## 2.6 - OPERATION LIMITS

#### MANEUVER LIMITS

This airplane is certified in the normal category.

The normal category is applicable to airplanes intended for non-aerobatic operations.

Non-acrobatic operations include any maneuvers incidental to normal flying, stalls (except whip stalls), lazy eights, chandelles, and steep turns in which the angle of bank is no more than 60°.

Acrobatic maneuvers, including spins, are not approved.

#### **TEMPERATURE LIMITS**

Minimum temperature at start and takeoff: - 40°C (- 40°F)

Maximum temperature at start and takeoff:

ISA + 37°C (+ 67°F) from 0 to 8000 ft pressure altitude

Maximum temperature in flight:

ISA + 37°C (+ 67°F) from 0 to 8000 ft pressure altitude

ISA + 30°C (+ 54°F) at 31000 ft pressure altitude

Linear decrease between 8000 and 31000 ft

#### FLIGHT LOAD FACTOR LIMITS

## Flaps up

Weight below 6579 lbs (2984 kg) :

$$-1.5 \le n \le +3.8 g$$

Weight above 6579 lbs (2984 kg):

- 
$$1.5 \le n \le + 3.5 g$$

## Flaps down

$$-0 \le n \le +2.0 g$$

#### CAUTION

## INTENTIONAL NEGATIVE LOAD FACTORS PROHIBITED

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#### SEVERE ICING CONDITIONS

## WARNING

SEVERE ICING MAY RESULT FROM ENVIRONMENTAL CONDITIONS OUTSIDE OF THOSE FOR WHICH THE AIRCRAFT IS CERTIFICATED. FLIGHT IN FREEZING RAIN, FREEZING DRIZZLE, OR MIXED ICING CONDITIONS (SUPERCOOLED LIQUID WATER AND ICE CRYSTALS) MAY RESULT IN ICE BUILD-UP ON PROTECTED SURFACES EXCEEDING THE CAPABILITY OF THE ICE PROTECTION SYSTEM, OR MAY RESULT IN ICE FORMING AFT OF THE PROTECTED SURFACES. THIS ICE MAY NOT BE SHED USING THE ICE PROTECTION SYSTEMS, AND MAY SERIOUSLY DEGRADE THE PERFORMANCE AND CONTROLLABILITY OF THE AIRCRAFT

During flight, severe icing conditions that exceed those for which the aircraft is certificated shall be determined by the following visual cues. If one or more of these visual cues exists, immediately request priority handling from Air Traffic Control to facilitate a route or an altitude change to exit the icing conditions.

- 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.

Since the autopilot, when operating, may mask tactile cues that indicate adverse changes in handling characteristics, use of the autopilot is prohibited when any of the visual cues specified above exist, or when unusual lateral trim requirements or autopilot trim warnings are encountered while the aircraft is in icing conditions.

Refer to the list of "Equipement required depending on type of operation" in this same chapter.

In any case of icing conditions, first refer to particular procedures described in Chapter 4.5 (normal procedures) and in case of unforeseen icing conditions, refer in addition to the emergency procedure described in Chapter 3.13.

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#### FLAP OPERATING ENVELOPE

The use of flaps is not authorized above 15 000 ft.

■ The use of flap control in "850" position is prohibited for takeoff and landing.

#### **REVERSE UTILIZATION**

The use of control reverse BETA ( $\beta$ ) range is prohibited during flight.

#### EQUIPMENT REQUIRED DEPENDING ON TYPE OF OPERATION

The airplane is approved for day & night VFR and day & night IFR operations when appropriate equipment is installed and operating correctly.

The type certification for each use requires the following equipment. The equipment must be installed and operate perfectly according to the indicated type of use.

#### CAUTION

IT IS THE PILOT'S RESPONSIBILITY TO CHECK THAT THE FOLLOWING EQUIPMENT LISTS ARE IN ACCORDANCE WITH THE SPECIFIC NATIONAL OPERATION RULES OF THE AIRPLANE REGISTRATION COUNTRY DEPENDING ON THE TYPE OF OPERATION.

#### NOTE:

Systems and equipment mentioned hereafter do not include specific flight and radio-navigation instruments required by decree concerning operation conditions for civil airplanes in general aviation or other foreign regulations (for example FAR PART 91 and 135).

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## Day VFR

- Pilot instruments
  - Airspeed indicator
  - Sensitive and adjustable altimeter
  - Magnetic compass with built-in compensator

## 2) Warning lights

- Oil pressure
- Low fuel pressure
- Fuel selector OFF
- Fuel auxiliary pump ON
- L.H. and R.H fuel tank low level
- Non functioning of fuel timer
- Battery overheat
- Battery stop
- Main generator OFF
- Low voltage
- Ground power unit connected
- Inertial separator
- Starter
- Ignition
- Flaps
- Landing gears and doors

## Aural warning

- V<sub>MO</sub> warning
- Landing gear warning
- Stall warning

## 4) Engine instruments

- Torquemeter
- Propeller tachometer
- Interturbine temperature indicator (ITT)
- Gas generator tachometer (Ng)
- Oil pressure indicator
- Oil temperature indicator

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#### 5) Various indicators

- Fuel gauge indicators (2)
- Fuel pressure indicator
- Voltmeter
- Ammeter
- Outside air temperature

## 6) Installations

- Fuel mechanical pump (main)
- Fuel electrical pump (auxiliary)
- Fuel shut-off valve
- Fuel timer
- Starter generator
- Inertial separator
- Stall warning
- Electrical aileron trim
- Electrical rudder trim
- Manual elevator pitch trim
- Engine ignition
- Landing gear electro-hydraulic unit
- Landing gear emergency hydraulic pump (manual)
- Flaps
- Overspeed regulator
- Manual feathering
- Battery

### 7) Miscellaneous

- Seats (each occupant)
- Belts (each occupant)
- Straps (each occupant)
- Pilot's operating handbook

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## **Night VFR**

- 1) All equipment required for day VFR
- 2) Attitude display indicator
- 3) Instrument lighting
- 4) Instrument panel lighting
- 5) Emergency lighting
- 6) Vertical speed indicator
- 7) Navigation lights (4)
- 8) Anticollision lights (2)
- 9) Landing light

#### **IFR**

- 1) All equipment required for day VFR
- 2) All equipment required for night VFR (if flight is performed during night)
- 3) Taxi light (if flight is performed during night)
- 4) Clock
- 5) 2nd altimeter
- 6) Emergency static source
- 7) Pitot static tube deicing

## Pressurized flight

- Cabin altimeter
- Cabin vertical speed indicator
- Cabin differential pressure indicator
- Pressurization control valve
- Safety valve
- Pressurization control
- Maximum cabin altitude and pressure warning light

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## Flight into icing conditions

- All equipment required for IFR flight
- Propeller deicing
- L.H. windshield deicing
- Airframe, stabilizer and elevator horn deicing
- Wing leading edge inspection light (if night flight)
- Stall warning deicing
- Inertial separator

#### **ALTITUDE OPERATING LIMITS**

Maximum altitude : 31000 ft (9449 m) Maximum differential pressure : 6.2 psi

## Operation in RVSM area

Reduced Vertical Separation Minima (RVSM) are met pending airplane compliance with SB 70-120-34.

Airworthiness Approval alone does not authorize flight into airspace for which an RVSM Operational Approval is required by an ICAO Regional Navigation Agreement.

#### NOTE:

Only altimeters AM250 are compliant with TBM 850 operation in RVSM area.

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## 2.7 - MISCELLANEOUS LIMITS

#### **SEATING LIMITS C.G.**

- 2 front seats at 178.5 in. (4.534 m)
- 2 intermediate seats at 222.7 in. (5.656 m)
- Rear bench (2 seats) at 267.1 in. (6.785 m

#### **BAGGAGE LIMITS**

- Baggage in pressurized cabin at 303 inches (7.695 m)
- Rear baggage at 329.4 inches (8.366 m)

#### MINIMUM CREW

- One pilot

#### MAXIMUM OCCUPANCY

The number of persons on board is limited by approved seating configuration installed but must not exceed six, including the pilot.

#### **USE OF DOORS**

Flight with door open or ajar is prohibited.

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## 2.8 - MARKINGS

#### AIRSPEED INDICATOR

Airspeed indicator markings and their color code significance are shown in Figure 2.8.1.

MARKING	KIAS (Value or range)	SIGNIFICANCE
White arc	65 - 122	Full Flap Operating Range Lower limit is maximum weight V <sub>SO</sub> in landing configuration.
Wide	65 - 81	Transition point between wide and narrow arcs is stall speed with flaps UP
Narrow	81 - 122	Upper limit is maximum speed permissible with flaps LDG
Red line	266	Maximum speed for all operations

Figure 2.8.1 - AIRSPEED INDICATOR MARKINGS

#### **PRESSURIZATION**

MARKING VALUE		SIGNIFICANCE
Red line	6.2 psi	Cabin ΔP limit

Figure 2.8.2 - PRESSURIZATION MARKING

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## **ENGINE INSTRUMENTS**

Engine instrument markings and their color code significance are shown in Figure 2.8.3.

INSTRUMENT	Red Line or arc	Yellow Line or Arc	Green Arc	Red Line
	Minimum Limit	Caution Range	Normal Operating	Maximum Limit
Oil temperature	- 40 °C (- 40 °F)	- 40 to 0 °C (- 40 to 32 °F) 104 to 110 °C ( 219.2 to 230 °F)	0 to 104 °C (32 to 219.2 °F)	110 °C (230 °F)
Oil pressure	60 psi	60 to 100 psi	100 to 135 psi	135 psi
Fuel pressure	0 to 5 psi		10 to 50 psi	50 psi
Generator RPM (Ng)			51 to 104 %	104 %
Propeller RPM (Np)		450 to 1000 RPM	1600 to 2000 RPM	2000 RPM
		840 to 1090 °C	400 to 840 °C	840 °C (1544 °F) normal limit
ITT		(1544 to 1994 °F)	(752 to 1544 °F)	1090 °C (1994 °F) (red triangle) absolute limit
Torque (TRQ)		121.4 %	0 to 121.4 % (arc ½ thick from 100 to 121.4 %)	121.4 %

Figure 2.8.3 - ENGINE INSTRUMENT MARKINGS

#### **SUCTION GAGE**

MARKING	CORRESPONDING VALUE	
Green	Normal operating from 4.4 to 5.2 in.Hg	
Red lines	at 4.4 and 5.2 in.Hg	

Figure 2.8.4 - SUCTION GAGE MARKINGS

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## 2.9 - PLACARDS

(1) Under L.H. front side window

FLIGHT CONDITIONS:  DAY AND NIGHT VFR AND IFR  INVERTED FLIGHT  ACROBATIC MANEUVERS	TBM THIS AIRPLANE MUST BE OPERATED IN COMPLIANCE WITH THE OPERATIN OF PLACARDS, MARKINGS AND	AS A NORMAL CATEGORY AIRPLANE G LIMITATIONS STATED IN THE FORM	ICING CONDITIONS ALLOWED
INTENTIONAL SPINS  MAXIMUM TAKEOFF WEIGHT  MAXIMUM LANDING WEIGHT  DESIGN LOAD FACTOR (MAXIMUM FLAPS UP WEIGHT BELOW 2984 I  ABOVE 2984 I	PROHIBITED PROHIBITED PROHIBITED 3354 kg / 7394 lbs 3186 kg / 7024 lbs 4) g / 6579 lbs1.5 < n.c + 3.5 g c/ 9 / 6579 lbs1.5 < n.c + 2.5 g	MANEUVERING SPEED V.M. MAXIMUM OPERATING SPEED V.M. FLAPS EXTENDED MAXIMUM SPEED TAKEOFF CONFIGURATION LANDING CONFIGURATION LANDING GEAR EXTENDED MAXIMUM LANDING GEAR OPERATING MAXIMUM P DOWN	VFE 266 KIAS  VFE 178 KIAS 122 KIAS 122 KIAS 138 KIAS 178 KIAS 178 KIAS 178 KIAS 178 KIAS

(2) Calibration chart on compass and on windshield post

# TURN L AND R WINDSHIELD DE-ICE OFF BEFORE

WARNING

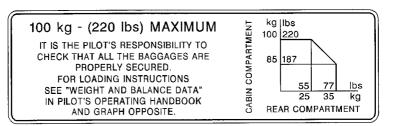
COMPASS READING

For	N	30	60	ш	120	150
Steer						
For	s	210	240	W	300	330
Steer						

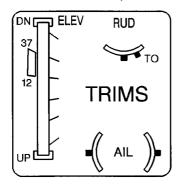
DATE: RADIO ON

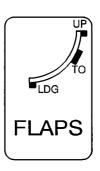
(3) On pressurized baggage compartment partition wall

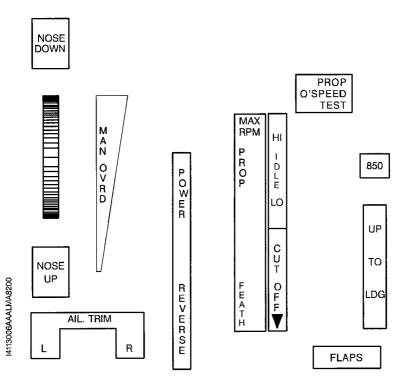
14112003AAABMA8200



## (4) Under radio rack, in front of pedestal



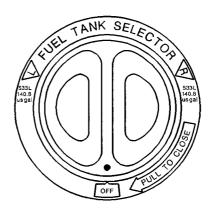




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## (5) On fuel selector

14113006AAALMA8100



## (6) Near fuel tank caps

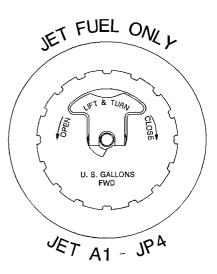
## JET-A-FUEL

TOTAL CAPACITY 145.3 us gal - 550 !

ANTHICE ADDITIVE REQUIRED.SEE PILOT'S

OPERATING HANDBOOK FOR OTHER APPROVED
FUELS QUANTITY AND TYPE OF ADDITIVE

14112004AAAAMA8000



(7) On internal face of L.H. engine cowling



(8) On landing gear emergency control access door

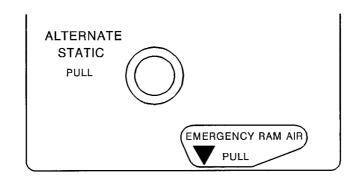
LDG GEAR EMERGENCY UNDER HATCH

(9) On rear passenger's table casing

TABLE MUST BE STOWED DURING TAKEOFF AND LANDING

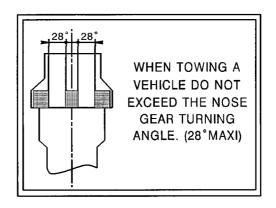
(10) Under R.H. control wheel

14113006AAKMA8000



## (11) On nose gear door

4112001AAACMA8000



(12) On nose gear leg

NOSE LANDING GEAR TIRE PRESSURE: 6,5 bar 94 psi

(13) On main gear leg

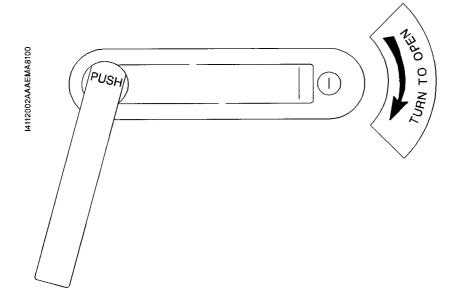
MAIN LANDING GEAR TIRE PRESSURE: 8,96 bar 130 psi

(14) On engine cowling, in front of compartment door

EXTERNAL POWER
28 VOLTS D.C. NOMINAL
800 AMPS
STARTING CAPACITY MIN
DO NOT EXCEED 1400 AMPS

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## (15) On "pilot" door - External side (if installed)



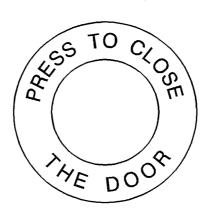
## (16) On access door - External side





(17) On outer fuselage skin aft of access door and in the cabin forward of access door

14112002AAADMA8000



(18) On access door - Internal side



(19) On "pilot" door - Internal side (if installed)

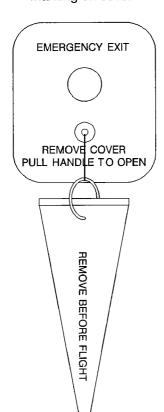
14112002AAADMA8101



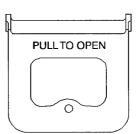


(20) On emergency exit handle

Marking on cover



Marking on handle



M4521000AAALMAFM00

(21) On last step of stairs

STAIRS MAX LOAD : ONE PERSON

(22) On R.H. access door jamb

DO NOT USE HAND RAIL TO RETRACT OR STOW STAIRS

(23) On R.H. side at front seat level and on the first rear passengers masks container (R.H. side on the ceiling)

14113400AAABMA8000

## WARNING

GREASY SUBSTANCES ARE CAPABLE OF SPONTANEOUS COMBUSTION ON CONTACT WITH OXYGEN

DO NOT SMOKE WHILE OXYGEN IS IN USE

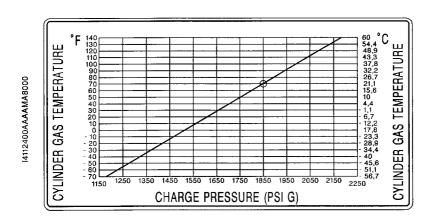
(24) On rear passengers masks containers (on R.H. side on the ceiling)

14113400AAABMA8101

OXYGEN MASKS INSIDE
PULL MASKS FOR
OXYGEN SUPPLY

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(25) On internal face of the oxygen cylinder service door



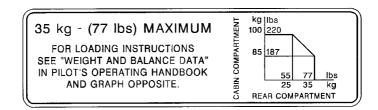
(26) On the oxygen service door

14112400AAAAMA8100

OXYGEN SERVICE POINT USE NO LUBRICANTS

(27) On internal face of the door of the rear baggage compartment (non pressurized)

14112003AAABMA8100



(28) On emergency locator transmitter inspection door

14112200AAAAMA8000



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TBM
PILOT'S OPERATING HANDBOOK \_\_850\_\_

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