

SECTION 2

LIMITATIONS

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2.1 - GENERAL

The TBM 700 airplane 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 power plant and installed equipment.

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

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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_{MO}	Maximum operating speed	270	266	Do not intentionally exceed this speed in normal flight category
V_A	Maneuvering speed	160	158	Do not make abrupt or full control movements above this speed
V_{FE}	Maximum flaps extended speed : landing configuration takeoff configuration	120 180	122 178	Do not exceed these speeds depending on flaps position
V_{LO}	Maximum landing gear operating speed : extension retraction	180 130	178 128	Do not extend or retract landing gear above this speed
V_{LE}	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 - POWER PLANT LIMITATIONS**ENGINE**

Number of engines : 1

Engine manufacturer : PRATT & WHITNEY CANADA

Engine model number : PT6A - 64

Engine operating limits for takeoff and continuous operations :

Maximum power :

- 700 SHP : MAX TRQ 100 % at Np = 2000 RPM
MAX TRQ 110 % at Np = 1800 RPM

Maximum power :

- Ng : 104.1 %
- Np : 2000 RPM

ITT :

- Anytime during engine operation :
 - . continuous : 800°C
- During start : 870°C for 20 seconds max.
1000°C for 5 seconds max.

CAUTION

**WHEN NORMALLY OPERATING, REFER TO CHAPTER 5.7
"ENGINE OPERATION" TABLES**

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 : 25 us gal (95 Litres)

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

CAUTION

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	AIR 3405C Grade F35	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)

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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2.4 - STARTER OPERATION LIMITS

Starter operation sequence is limited as follows :

if $N_g \leq 30\%$ 30 seconds

if $N_g > 30\%$ 60 seconds

Should several sequences be necessary, respect following spacing :

1st sequence

wait 1 minute

2nd sequence

wait 5 minutes

3rd sequence

wait 30 minutes

4th sequence

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2.5 - WEIGHT AND C.G. LIMITS

WEIGHT LIMITS

Maximum ramp weight : 6614 lbs (3000 kg)

Maximum takeoff weight : 6579 lbs (2984 kg)

Maximum landing weight : 6250 lbs (2835 kg)

Maximum zero fuel weight (MZFW) : 6001 lbs (2722 kg)

Maximum baggage weight in pressurized compartment : 220 lbs (100 kg)

Maximum baggage weight in non pressurized aft compart. : 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)

184.8 inches (4.694 m) aft of datum at 6579 lbs (2984 kg) (20 % 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.)

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-acrobatic 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

Battery operation limit : 70°C (158°F) corresponding to "BAT OVHT" warning light illumination (if Cadmium-Nickel battery installed)

Use of airframe deicing is prohibited when IOAT is at or below - 25°C (- 13°F).

FLIGHT LOAD FACTOR LIMITS

Flaps up : - 1.5 ≤ n ≤ + 3.8 g

Flaps down : - 0 ≤ n ≤ + 2.0 g

CAUTION

INTENTIONAL NEGATIVE LOAD FACTORS PROHIBITED

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 "Equipment 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.

FLAPS OPERATING ENVELOPE

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

REVERSE UTILIZATION

The use of control reverse BETA (β) 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).

Day VFR

1) 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

3) Aural warning

- V_{MO} 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

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

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

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 700 operation in RVSM area.

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2.7 - MISCELLANEOUS LIMITS

SEATING LIMITS C.G.

- 2 seats at 180.5 inches (4.585 m)
- 2 seats at 222.1 inches (5.641 m)
- 2 seats at 272.3 inches (6.916 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.

ENGINE TREND MONITORING

The information related to navigation and flight parameters are a recopy of the airplane instruments and must not be used as primary means of flight control.

The ETM Operation Manual, at its latest revision, must be easily accessible to the pilot each time the ETM system is used.

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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	60 - 122	Full Flap Operating Range Lower limit is maximum weight V_{SO} in landing configuration. Transition point between wide and narrow arcs is stall speed with flaps UP. Upper limit is maximum speed permissible with flaps LDG.
Wide	60 - 75	
Narrow	75 - 122	
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

ENGINE INSTRUMENTS

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

INSTRUMENT	Red Line or arc ----- Minimum Limit	Yellow Line or Arc ----- Caution Range	Green Arc ----- Normal Operating	Red Line ----- 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
ITT	---	800 to 1090 °C (1470 to 1992 °F)	400 to 800 °C (750 to 1470 °F)	800 °C (1490 °F) normal limit ----- 1090 °C (1992 °F) (red triangle) absolute limit
Torque (TRQ)	---	100 %	0 to 110 % (arc ½ thick from 100 to 110 %)	110 %

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

2.9 - PLACARDS

- (1) Under L.H. front side window

I4113004AAAKMA8200

TBM700 C1

THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE
IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM
OF PLACARDS, MARKINGS AND PILOT OPERATING HANDBOOK

FLIGHT CONDITIONS :
DAY AND NIGHT VFR AND IFR

ICING CONDITIONS ALLOWED

<p>INVERTED FLIGHT _____ PROHIBITED</p> <p>ACROBATIC MANEUVERS _____ PROHIBITED</p> <p>INTENTIONAL SPINS _____ PROHIBITED</p> <p>MAXIMUM TAKEOFF WEIGHT _____ 2884 kg / 6579 lbs</p> <p>MAXIMUM LANDING WEIGHT _____ 2835 kg / 6250 lbs</p> <p>DESIGN LOAD FACTOR (MAXIMUM)</p> <p style="padding-left: 20px;">FLAPS UP _____ -1.5 < n < + 3.8 g</p> <p style="padding-left: 20px;">FLAPS DOWN _____ 0 < n < + 2 g</p>	<p>MANEUVERING SPEED V_A _____ 158 KIAS</p> <p>MAXIMUM OPERATING SPEED V_{MO} _____ 266 KIAS</p> <p>FLAPS EXTENDED MAXIMUM SPEED V_{FE} _____ 178 KIAS</p> <p>TAKEOFF CONFIGURATION _____ 122 KIAS</p> <p>LANDING CONFIGURATION _____ 178 KIAS</p> <p>LANDING GEAR EXTENDED MAXIMUM SPEED V_{LE} _____ 178 KIAS</p> <p>LANDING GEAR OPERATING MAXIMUM SPEED V_{LO}</p> <p style="padding-left: 20px;">UP _____ 128 KIAS</p> <p style="padding-left: 20px;">DOWN _____ 178 KIAS</p>
--	---

- (2) Calibration chart on compass and on windshield post

WARNING

**TURN L AND R WINDSHIELD
DE-ICE OFF BEFORE
COMPASS READING**

For	N	30	60	E	120	150
Steer						
For	S	210	240	W	300	330
Steer						

DATE : _____ RADIO ON

(3) On pressurized baggage compartment partition wall

I4112003AAA BMA18000

100 kg - 220 lbs MAXIMUM

IT IS THE PILOT'S RESPONSIBILITY TO CHECK THAT ALL THE BAGGAGES ARE PROPERLY SECURED.

FOR LOADING INSTRUCTIONS SEE "WEIGHT AND BALANCE DATA" IN PILOT'S OPERATING HANDBOOK

or

I4112003AAA BMA 8200

100 kg - (220 lbs) MAXIMUM

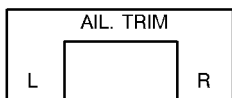
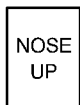
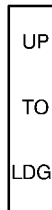
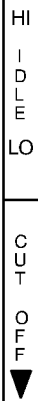
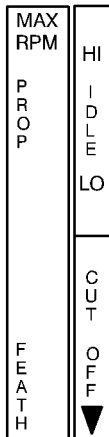
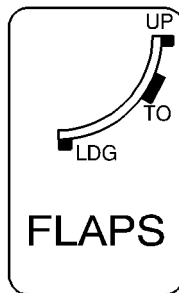
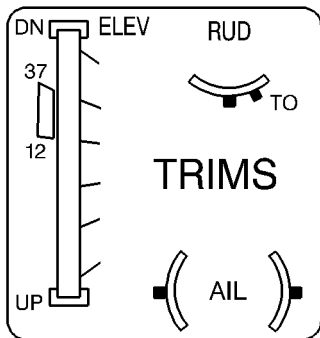
IT IS THE PILOT'S RESPONSIBILITY TO CHECK THAT ALL THE BAGGAGES ARE PROPERLY SECURED.

FOR LOADING INSTRUCTIONS SEE "WEIGHT AND BALANCE DATA" IN PILOT'S OPERATING HANDBOOK AND GRAPH OPPOSITE.

CABIN COMPARTMENT	kg	lbs
	100	220
REAR COMPARTMENT	85	187
	55	77
	25	35
		lbs kg

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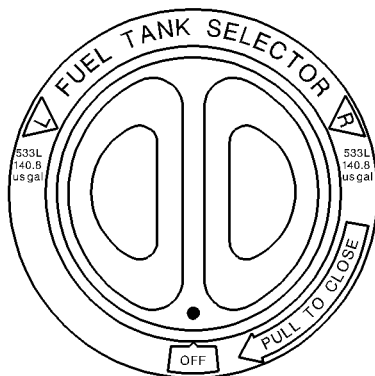
(4) Under radio rack, in front of pedestal



14113006AALLM/A8000

(5) On fuel selector

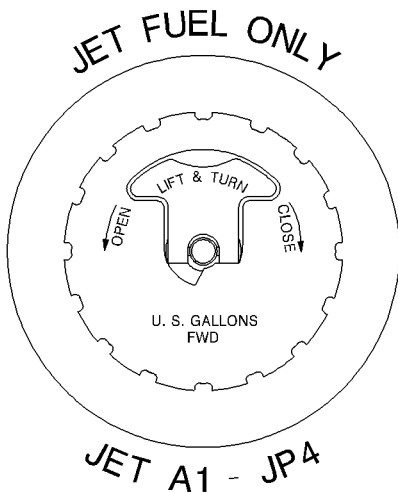
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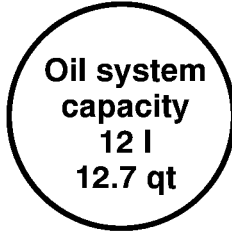
(6) Near fuel tank caps

JET-A-FUEL
TOTAL CAPACITY 145.3 us gal - 550 l
ANTHICE ADDITIVE REQUIRED. SEE PILOT'S
OPERATING HANDBOOK FOR OTHER APPROVED
FUELS QUANTITY AND TYPE OF ADDITIVE

I4112004AAAAAMA8000



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



(8) On landing gear emergency control access door

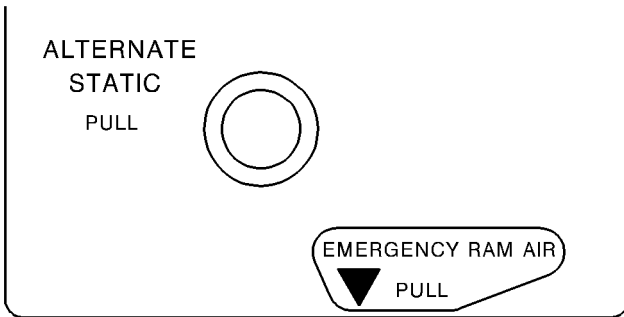


(9) On rear passenger's table casing



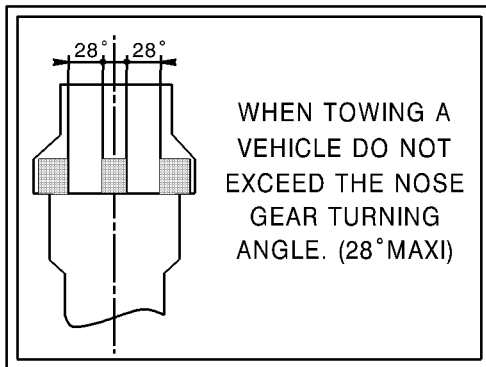
(10) Under R.H. control wheel

14113006AAA1KMA8000



(11) On nose gear door

14112001AAACM/A8000



(12) On nose gear leg

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

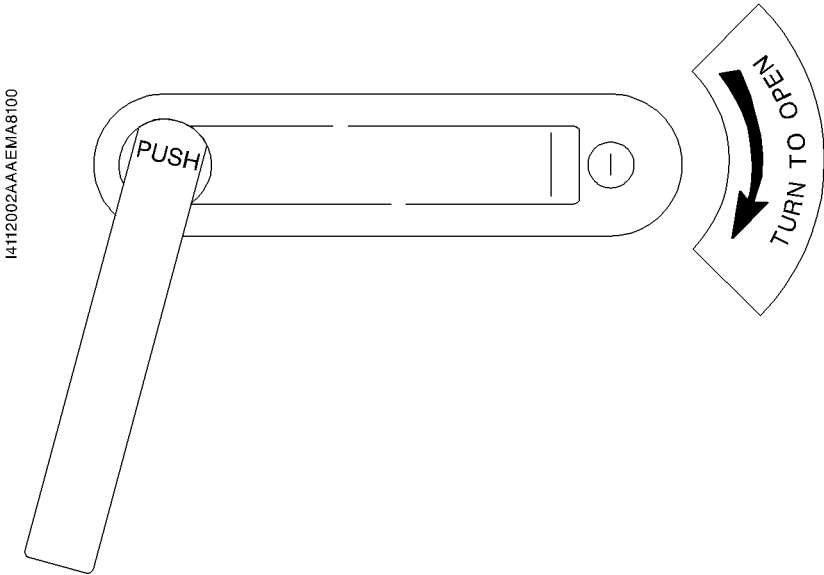
(13) On main gear leg

**MAIN LANDING GEAR
TIRE PRESSURE : 8,25 bar
120 psi**

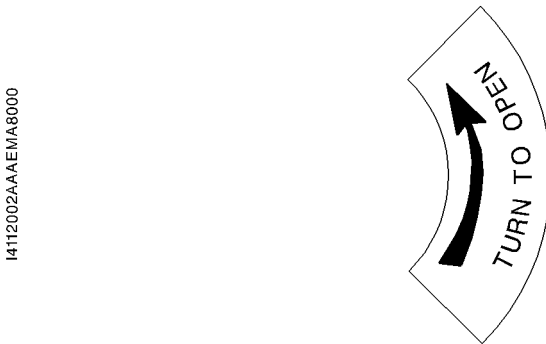
(14) On engine cowling, in front of compartment door

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

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

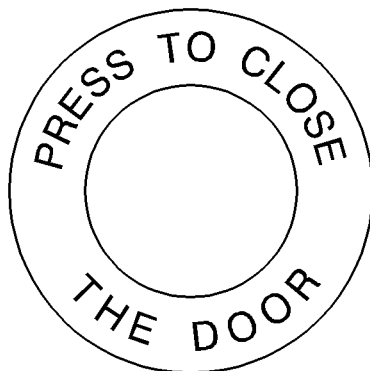


(16) On access door - External side



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

I4112002AAA DMA8000



- (18) On access door - Internal side

I4112002AAA DMA8201



CAUTION: UNLOCK BEFORE
OPERATING THE HANDLE

TURN HANDLE
TO OPEN 

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

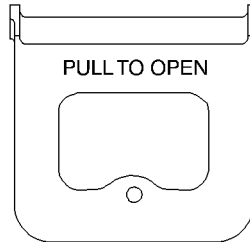
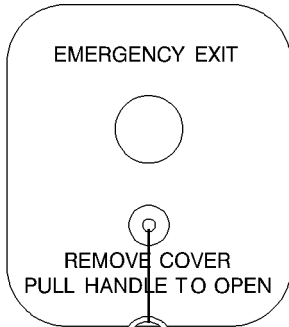
I4112002AAADMA6101



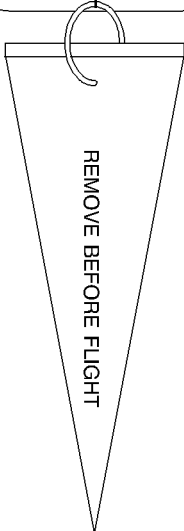
(20) On emergency exit handle

Marking on cover

Marking on handle



IM4521000AAALIMAFM00



(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)

I4113400AAAABMA8000

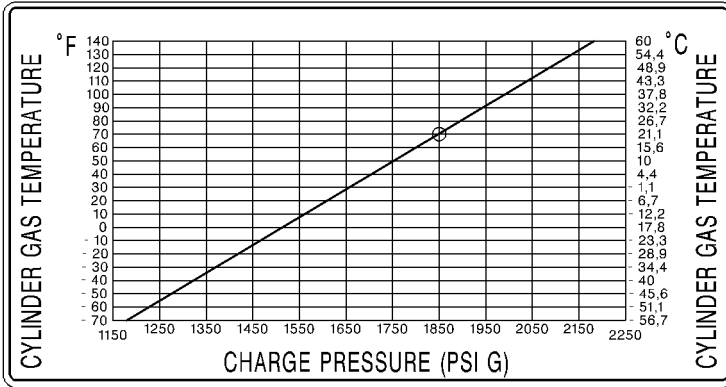
WARNING
GREASY SUBSTANCES ARE CAPABLE
OF SPONTANEOUS COMBUSTION
ON CONTACT WITH OXYGEN
DO NOT SMOKE WHILE OXYGEN IS IN USE

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

I4113400AAAABMA8101

OXYGEN MASKS INSIDE
PULL MASKS FOR
OXYGEN SUPPLY 

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



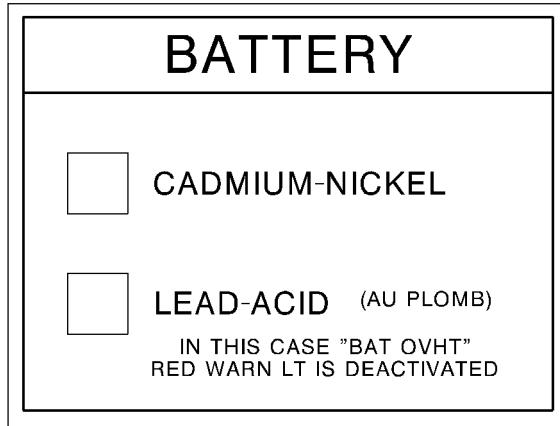
(26) On the oxygen service door

I4112400AAAAMA8100

**OXYGEN SERVICE POINT
USE NO LUBRICANTS**

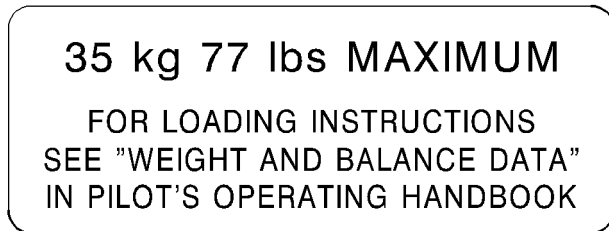
- (27) On internal face of L.H. engine cowl

I4112001AAAADMA8000



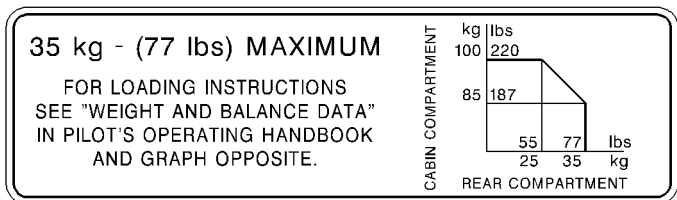
- (28) On internal face of the door of the rear baggage compartment (non pressurized)

I4112003AAAABMA8000



or

I4112003AAAABMA8100



(29) On emergency locator transmitter inspection door

I411200AAAAMIA8000

