

CHAPTER

11

**PLACARDS AND
MARKINGS**

CONTENT

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EFFECTIVITY: All

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GENERAL

The external placards and markings are issued in section 11-20-00.

The placards in airplane cockpit and upon firewall are in section 11-30-00.

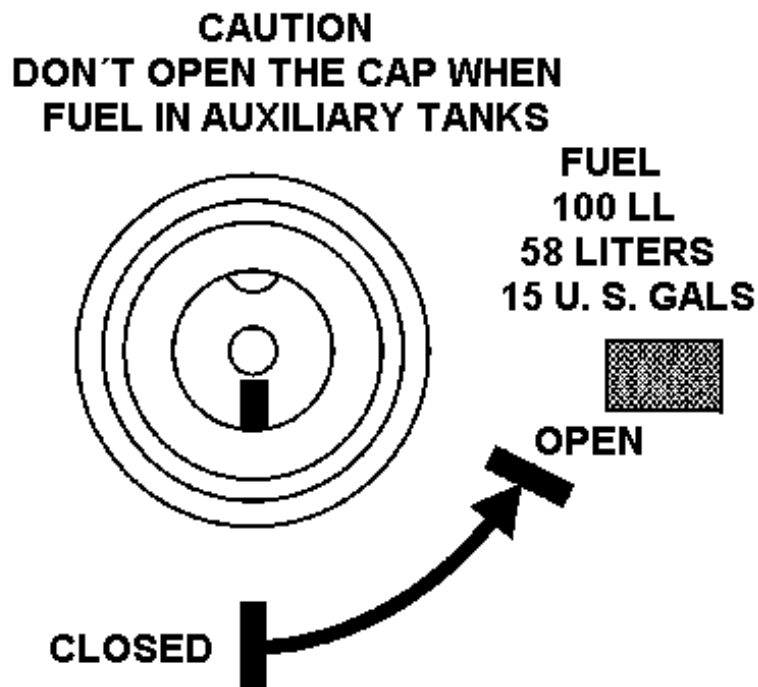
EFFECTIVITY: All

11-00-00

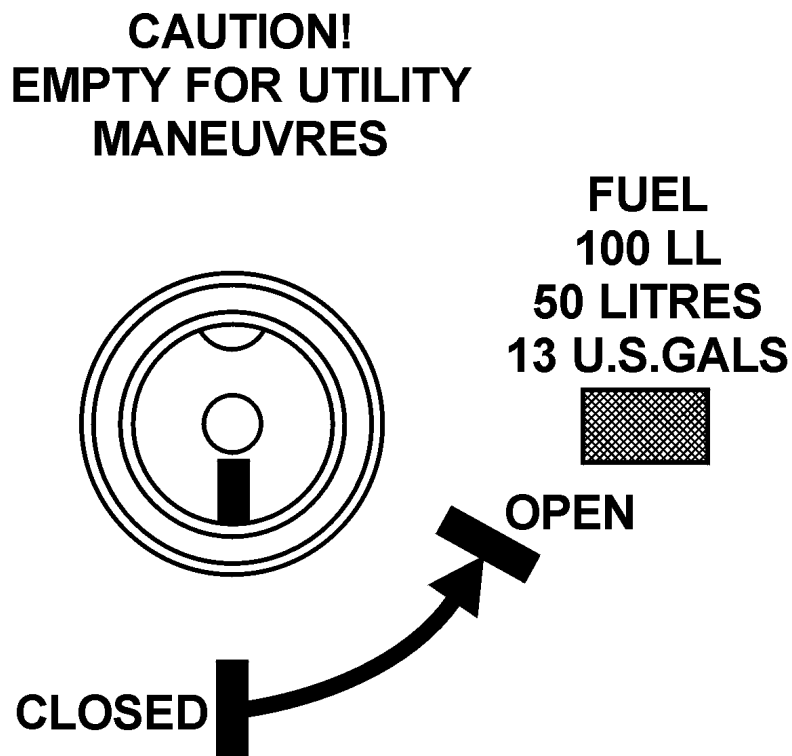
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EXTERNAL PLACARDS AND MARKINGS

- 1) The markings at the refueling ports upon wing upper side



- 2) Markings at outboard refueling port caps upon upper wing



- 3) Marking upon port and starboard fwd side of wing center section

DON'T STEP HERE

- 4) Marking upon upper side of aileron and flaps

DON'T PUSH HERE

- 5) Marking upon horizontal stabilizer and wing tips

DON'T LIFT HERE

- 6) Markings upon fuselage bottom behind firewall and rear fuselage section (under bulkhead No. 4)

SUPPORT HERE

- 7) Markings at nose and landing gear

TIRE BARUM

250 \pm 10 kPa (36 \pm 2 P.S.I.)

or

TIRE GOODYEAR

250 \pm 10 kPa (36 \pm 2 P.S.I.)

- 8) Marking upon nose landing gear shock absorber

AERO SHELL FLUID 4
FILL 400^{+10} kPa (58^{+2} P.S.I.)
OPERATION 400^{+10}_{-40} kPa (58^{+2}_{-6} P.S.I.)

- 9) Markings upon main landing gear legs

FILL THE BRAKES WITH
AERO SHELL FLUID 4

- 10) Markings at tank drain valves upon the wing bottom

QUICK DRAIN VALVE

- 11) Marking at fuel system drain valve upon fuselage bottom

MAIN DRAIN VALVE

- 12) Marking at oil filler cap upon upper side of engine cover

OIL 12 LITRES

- 13) Markings at grounding pins near fuel tank filling caps

CONNECT GROUding
CABLE FROM THE
FUEL UNIT HERE

- 14) Marking at static pressure probes upon rear fuselage section

STATIC VENT
KEEP CLEAN

- 15) Marking upon access port door of receptacle of ground power unit

28 V
150 A

- 16) Marking at ELT upon starboard side of fuselage - optional

ELT HERE

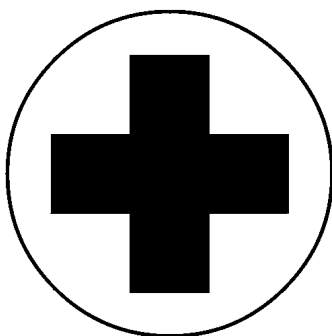


- 17) Marking at external control lever of sliding cockpit canopy

OPEN

CLOSED

- 18) Placard near the first aid kit upon port side of fuselage



- 19) Placard upon bottom tube of towing gear (if installed)

- a) towing gear acc. to Ddraw. No. Z143.8400 or Draw. No. L143.8410

**TOWLINE MUST BE PROVIDED WITH 4,9 kN (1100 lbf) WEAK-LINK,
IF MAXIMUM TOWLINE STRENGHT EXCEEDS 4,9 kN (1100 lbf).**

- b) towing gear TOST FEUERSTEIN system acc. to Draw. No. L143.8700

**TOWLINE MUST BE PROVIDED WITH 750 ± 75 daN (1685 ± 165 lbf) WEAK-LINK,
IF MAXIMUM TOWLINE STRENGTH EXCEEDS 825 daN (1850 lbf).**

EFFECTIVITY: All

11-20-00

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INTERNAL PLACARDS

- 1) Placards upon instrument panels:
a) Placards in pilot's sight of view:

SMOKING PROHIBITED

FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED

**UTILITY MANEUVRES WITH FUEL IN AUXILIARY
TANKS PROHIBITED**

VFR DAY

VFR NIGHT

IFR

Placard at ELT remote control upon left side of instrument panel - optional:

**FOR AVIATION EMERGENCY USE ONLY
UNAUTHORIZED OPERATION PROHIBITED**

- c) Placard near the quadruple engine indicator in right instrument panel - only Z 143L aircraft:

**KEEP CARB. TEMP. NEEDLE OUT OF YELLOW ARC
DURING POSSIBLE CARBURETOR ICING CONDITIONS**

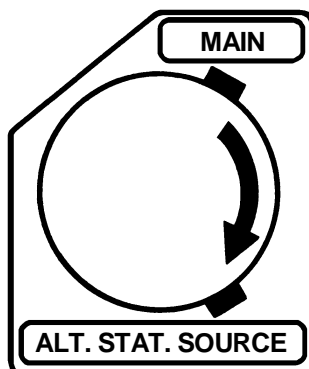
- d) Placard in left instrument panel - if GPS not certified for IFR is installed:

**GPS LIMITED TO VFR
USE ONLY**

Placard at stand - by switches if installed to right instrument panel:

**EMERGENCY SWITCH
COMM 1 ADF/NAV**

- f) Placard at static pressure valve in left instrument panel:



EFFECTIVITY: All

11-30-00

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- g) Placard at the static pressure adjusting screw of alternate static pressure in left instrument panel:

**ALT. STAT.
ADJUST.**

- h) Placard in left instrument panel at turn-and-bank operation annunciator indicating stand-by feeding of instrument:

**EMERG.
SOURCE**

- i) Placard at Ext. GPS - if installed:

**EXT. GPS
28V/2A MAX.**

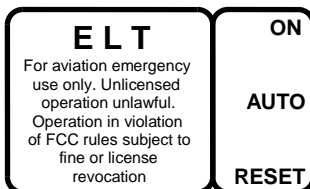
- j) Placards at Intercom switch - if installed:

**IC OFF FOR
TRANSMISSION**



- 2) Placards above instruments panels:

- a) Placard above instruments panel at POINTER 3000 ELT - optional:



- b) Placard at annunciator check push button in middle instrument panel:

**SIGNALLING
CHECK**

- 3) Placards under left instrument panel:

- a) Placard at manual fuel primer - if installed:

PRIMER

- b) Placard at ESSEX manual primer - optional:

**WARNING
PRIMING PUMP MUST BE
IN SECURED POSITION**

- c) Placard upon the latch of manual control lock:



EFFECTIVITY: All

- 4) Placard under the instrument panel:
- a) Placard under the instrument panel if strobe lights are installed:

WARNING

TURN OFF STROBE LIGHTS WHEN TAXING IN VICINITY OF OTHER AIRCRAFT OR DURING FLIGHT THROUGH CLOUD, FOG OR HAZE.

STANDARD POSITION LIGHTS TO BE ON FOR ALL NIGHT OPERATIONS.

- b) Placards at individual control elements:

TROTTLE
PUSH MAX

PROPELLER SPEED
PUSH MAX

MIXTURE
PUSH RICH

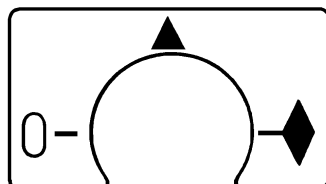
CARB HEAT.
PULL HOT

- Z 143 L airplane only

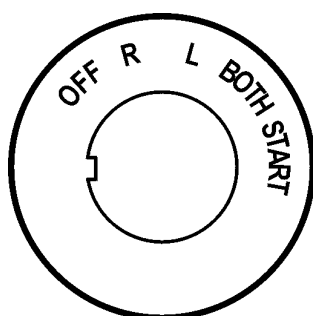
PARKING BRAKE
PULL ON

- c) Placards at cockpit air venting and heating:

VENTILATION - PULL
HEATING - TURN



- d) Placard at magneto switch:

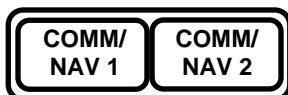


- e) Placard at electric master switch



EFFECTIVITY: All

- f) Placard at COMM/NAV 1 and COMM/NAV 2 switches:



- g) Placard at circuit breakers up to S/N 0045 including:

COMM 1 6.3 A	COMM 2 6.3 A	NAV 3.15 A	ADF 1 A	XPDR 3.15 A	MKR 1 A	DME 3.15 A	GPS 3.15 A
FUEL IND. L 1 A	FUEL IND. R 1 A	NO CONNECT	GIC 4 A	NO CONNECT	NO CONNECT	ELT 1 A	AUDIO 2 A
STARTER 2 A	ANN. PAN. 2 A	VA METER 1 A 1 A		CHECK 1 A	TURN C. 1 A	ATT. GYR. 1 A	DIR. GYR. 1 A
INT. LIGHT 1 A	ENG. IND. 2 A	STALL. W. 2 A	INST. LGT. 3.15 A	PLACARDS 1 A	BATTERY 3.15 A	EXCIT 4 A	C. U. LIGHT 1 A

Except those above following placards may be used (up to S/N 0045 including):

HSI 2 A	INDICATOR 1 A	RMI 2 A	TACAN 3.15 A	UHF 6.3 A	NAV 1 3.15 A	NAV 2 3.15 A	LORAN 3.15 A
EXT.GPS 3.15 A	WINCH MOTOR						

Placard at circuit breakers from S/N 0046 including:

COMM 1	COMM 2	ADF	XPDR	DME	GPS1	GPS2	AUDIO
FUEL IND. L	FUEL IND. P	GIC	HSI	NO CON.	EXT.GPS	NO CON.	ELT
STARTER	ANN.PAN.	VA METER		CHECK	TURN C.	ATT.GYR.	DIR.GYR.
INT.LIGHT	ENG.IND.	STALL W.	INST.LGT.	PLACARDS	BATTERY	EXCIT	C.U.LIGHT

Except those above following placards may be used (from S/N 0046 including):

INDICATOR	RMI	TACAN	UHF	LORAN	WINCH
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NOTE

Actual contents and location of placards at circuit breakers depends upon actual airplane equipment.

- h) Placard at pressure gauge of main wing flange plate spar up to S/N 0045 including:



Placard from S/N 0046 including is at the panel between fwd seats.

EFFECTIVITY: All

- i) Placard at instrument dimming control:



- j) Placard under the instrument panel - if towing gear installed:



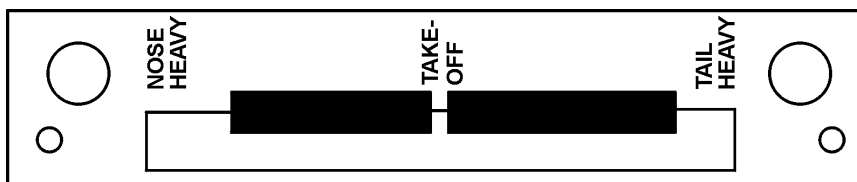
- 5) Placards at the panel between fwd seats:

- a) Placard upon the cover between fwd seats - on left side:

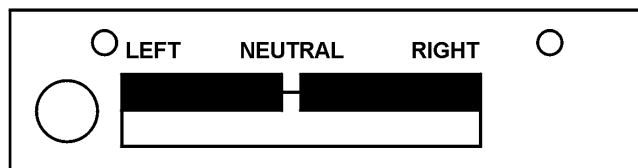


- b) Placard at trimming controls:

- Pitch trim



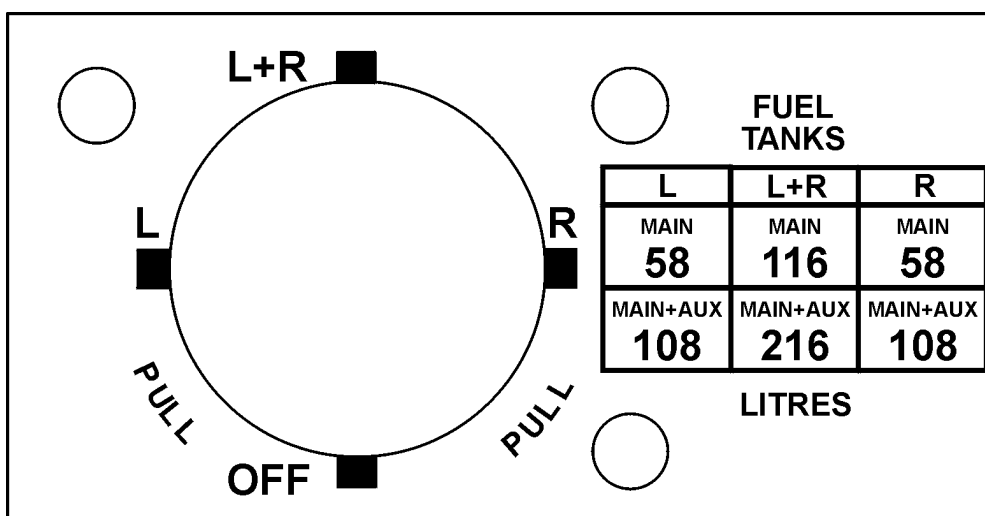
- Rudder trim



- c) Placard at flap control lever:

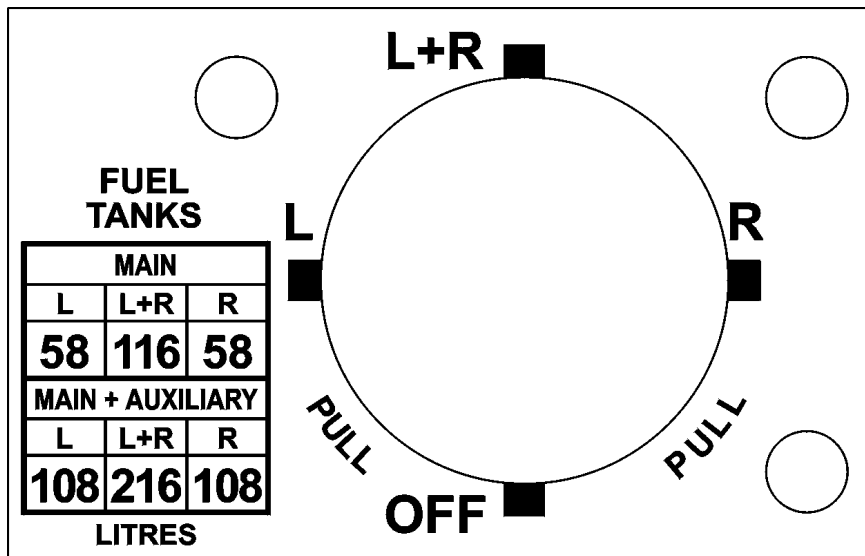


- d) Placard at fuel control valve up to S/N 0045 including:

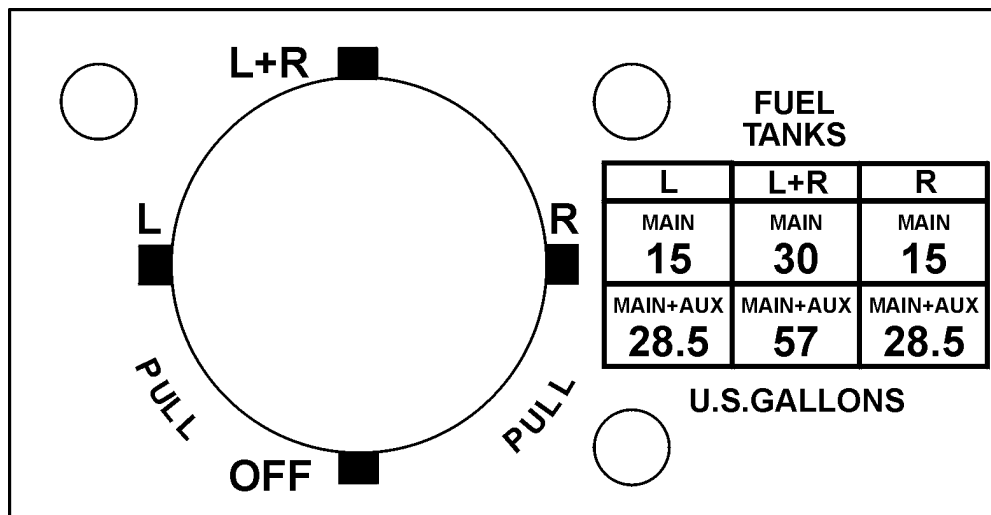


EFFECTIVITY: All

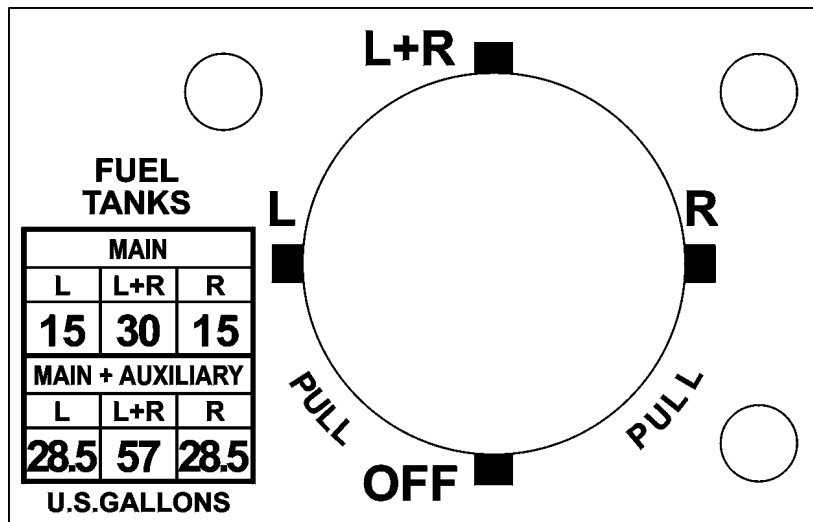
from S/N 0046 including:



or (airplane registered in USA up to S/N 0045 including):

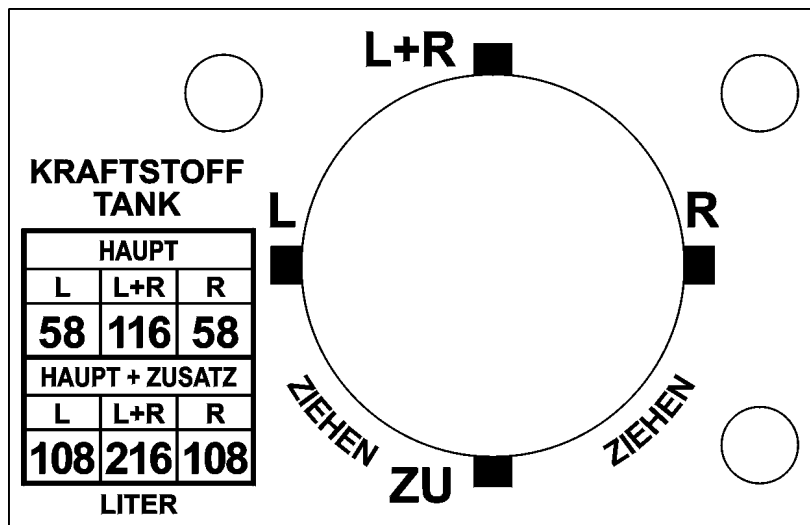


(airplane registered in USA from S/N 0046 including)



EFFECTIVITY: All

(airplane registered in GFR from S/N 0046 including)







EFFECTIVITY: All

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e) Placards at switches:

BATTERY		GENER.	FUEL PUMP	ENGINE INSTR.	FLIGHT INSTR.	PITOT HEATING		STATIC HEATING
LANDING LIGHT		TAXI LIGHT	BEACON	POSITION LIGHTS	LIGHTING	STROBE LIGHTS		EXT. POW. SOURCE



NOTE

Strobe lights are optional (placard **STROBE LIGHTS**).

f) Placards at fuses - airplane registered in GFR - upon right cover between fwd seats:

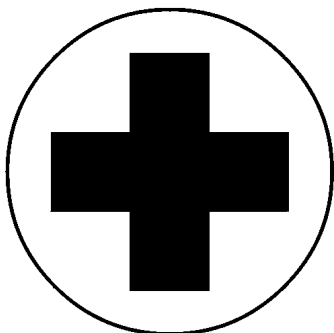
VERG.TEMP. 1 A	KRAFTST.DR. 1 A	ÖLTEMP. 1 A	ÖLDRUCK 1 A
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g) Placard at headset jack:



6) Placards in aft cockpit section:

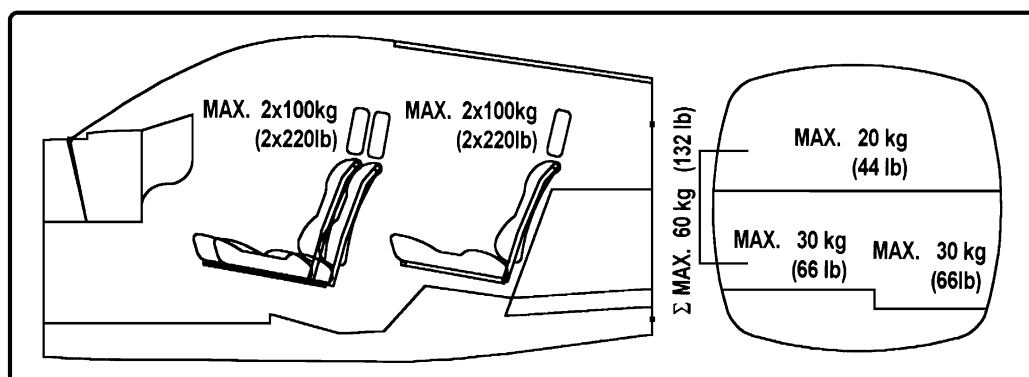
a) Placard upon first aid kit between aft seats:




b) Placard in upper and lower cargo bays upon the wall and access door:




c) Placard in cargo bay upon the access door




d) Manufacturer label (original up to S/N 30.6.2009) (upon left floor of upper cargo bay)

 MORAVAN a.s. MADE IN CZECH REPUBLIC	TYP		
	VÝROBNÍ ČÍSLO	SERIE	
	ROK VÝROBY	MAX. HMOTN.	
	PRÁZD. HMOTN.	DOVOL. ZATÍŽ.	

 Moravan Aviation s.r.o. MADE IN CZECH REPUBLIC	TYPE	
	PROD. NUMBER	
	PROD. YEAR	

Manufacturer label (new from 1.7.2009) (upon left floor of upper cargo bay)

 MADE IN CZECH REPUBLIC	TYPE	
	PROD. NUMBER	
	PROD. YEAR	

7) Placards upon sliding cockpit canopy

a) Placard in pilot's of view

THIS AIRPLANE MUST BE OPERATED IN COMPLIANCE WITH OPERATING LIMITATIONS STATED IN THE PLACARDS AND IN THE AIRPLANE FLIGHT MANUAL.

EXCEPT AS MAY BE OTHERWISE INDICATED ON A PLACARD THE MARKINGS AND PLACARDS INSTALLED IN THIS AIRPLANE CONTAIN OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THE UTILITY CATEGORY. OTHER OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THIS CATEGORY OR IN THE NORMAL CATEGORY ARE CONTAINED IN THE AIRPLANE FLIGHT MANUAL.

DESIGN MANEUVERING SPEED V_A IAS	121 knots (224 km/h)
FOR TAKE-OFF WEIGHT	1080 kg (2380 lbs)

INTENTIONAL SPINS WITH WING FLAPS EXTENDED ARE PROHIBITED.

RECOVERY FROM SPINS:

1. APPLY FULL RUDDER OPPOSITE TO THE DIRECTION OF ROTATION.

2. CONTROL STICK - PUSH.

APPROVED UTILITY MANEUVERES AND RECOMMENDED ENTRY SPEEDS (IAS)		
	knots	km/h
STEEP TURN (ANGLE OF BANK >60°, max. 90°)	min 108	(200)
LAZY EIGHT (ANGLE OF BANK >60°, max. 90°)	min 119	(220)
CHANDELLE (ANGLE OF BANK >60°, max. 90°)	min 119	(220)
SPIN	67	(125)

THE AIRPLANE MAY BE OPERATED IN FOLLOWING KINDS OF OPERATION, WHEN THE APPROPRIATE EQUIPMENT IS INSTALLED AND OPERABLE.

1. VFR DAY

2. VFR NIGHT

3. IFR

FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED.

or (applicable for airplanes registered in GFR only)

DIESES FLUGZEUG MUß UNTER EINHALTUNG DER AUF DEN SCHILDERN UND IM FLUGHANDBUCH ANGEgebenEN BETRIEBSGRENZEN BETRIEBEN WERDEN.		
FALLS AUF DEN SCHILDERN NICHT ANDERS ANGEgeben, BEINHALTEN DIE IN DIESEM FLUGZEUG ANGEBRACHTEN MARKIERUNGEN UND SCHILDER BETRIEBSGRENZEN, DIE BEI BETRIEB DIESES FLUGZEUGS IN DER KATEGORIE NUTZFLUG (U) EINZUHALTEN SIND. ANDERE GRENZEN, DIE IN DIESER KATEGORIE ODER IN DER KATEGORIE NORMAL (N) EINGEHALTEN WERDEN MÜSSEN, SIND DEM FLUGHANBUCH ZU ENTNEHMEN.		
MANÖVERGESCHWINDIGKEIT v_A IAS FÜR STARTGEWICHT	121 kt (224 km/h) 1080 kg	
ABSICHTLICHES TRUDELN MIT AUSGEFAHRENEN LANDEKLAPPEN IST VERBOTEN.		
TRUDELN AUSLEITEN:	1. SEITENRUDERPEDAL-VOLL ENTGEGEN DER DREHRICHTUNG 2. STEUERKNÜPPEL-DRÜCKEN	
GENEHMIGTE MANÖVER IN DER KATEGORIE NUTZFLUG (U) UND EMPFOHLENE EINTRITTSGESCHWINDIGKEITEN (IAS)		
	kt	km/h
STEILKURVE (NEIGUNGSWINKEL >60°, max. 90°)	min. 108	200
LAZY EIGHT (NEIGUNGSWINKEL >60°, max. 90°)	min. 119	220
CHANDELLE (NEIGUNGSWINKEL >60°, max. 90°)	min. 119	220
TRUDELN	67	125
DIESES FLUGZEUG KANN IN DEN FOLGENDEN BETRIEBSARTEN BETRIEBEN WERDEN, WENN ES ENTSPRECHEND AUSGERÜSTET UND BETRIEBBEREIT IST.		
1. VFR TAG 2. VFR NACHT 3. IFR		
FLIEGEN UNTER BEKANNTEN VEREISUNGSBEDINGUNGEN IST VERBOTEN.		

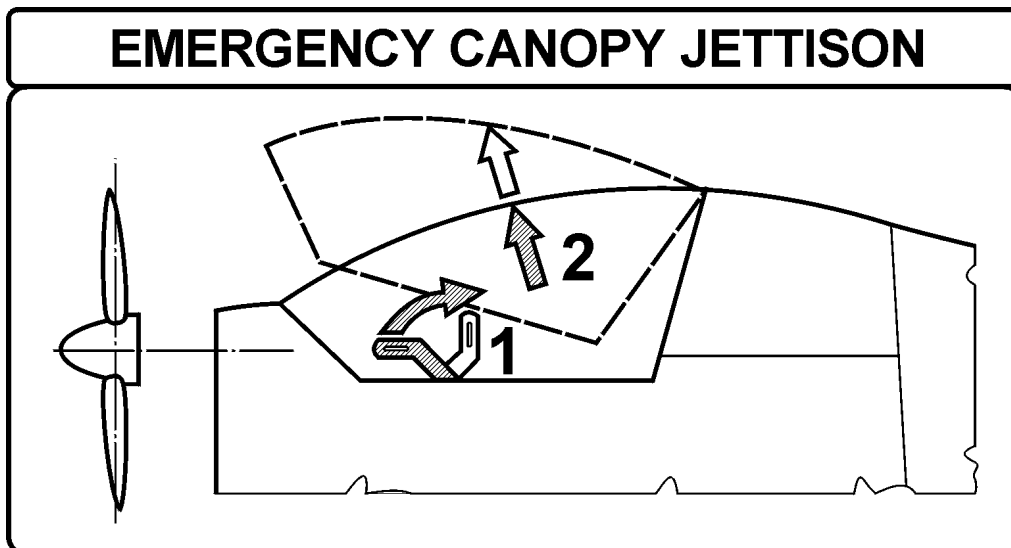
EFFECTIVITY: All

b) Placard at hammer upon the frame of cockpit canopy:

CRASH AXE

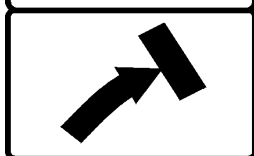


c) Placard at the levers of emergency canopy jettisoning:

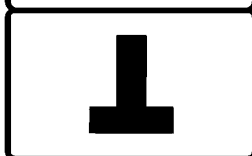


d) Placards at the levers of emergency canopy jettisoning:

UNLOCKED



LOCKED



e) Placard at the canopy lock lever upon the left side of canopy:

CANOPY LOCK

f) Placard at interval lever of cockpit canopy upon upper part of canopy:

OPEN

CLOSED

8) Placards upon firewall:

a) Placards at individual bushings upon firewall in engine compartment:

MANIFOLD PRESSURE

TROTTLE

MIXTURE

PROPELLER

CARB. HEAT

PRIMER

- if fuel primer is installed - only for Z 143L

EFFECTIVITY: All

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