

M.I.C.M. - G.A.B.
INTREPRINDEREA DE CONSTRUCTII AERONAUTICE
2200 B R A S O V

MANDATORY SERVICE BULLETIN

IS-28B2/EO-3

Approved by: THE DEPARTMENT OF CIVIL AVIATION

with No. 013 / 28.07.1978

Product : IS-28B2 glider

Object : Ensuring the Canadian airworthiness
requirements

Compliance : Revision Record Card No. 540, 579, 602, 608,
611, 615, 618.

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1. PLANNING INFORMATION

A. Applicability

This bulletin is applied by the operator to the gliders serial no.67, 70 and 120 exported to Canada and by the manufacturing plant for all gliders under fabrication.

B. Reason

Ensuring the Canadian airworthiness requirements.

C. Description

- (a) Elevator control spring removal
- (b) Trim-tab adjustemnt
- (c) Glider data plate replacement
- (d) Cockpit limiting placard replacement
- (e) Aerobatic placard insertion
- (f) Cockpit opening white buttons by red ones
- (g) Front and rear seat-back fixing by rivet
- (h) Rear seat-back fixing by leather band
- (i) Flap and air brake control cowling insertion (in the cockpit)
- (j) Flight and Maintenance Manual, 2nd issue replacing by the 3rd issue.

D. Compliance

Revision Record Card: 540, 579, 602, 608, 611, 615, 618.

E. Accomplishment

To the products under fabrication this bulletin is applied as usual modification.

To the gliders under operation it is applied by the user.

F. Material - Cost and Availability

The materials necessary to apply this bulletin are specified in chapter 3 and are delivered by the manufacturing plant, accompanied by this bulletin.

Its application belongs to user.

G. Tooling

- Tool kit
- Deflection angle protractor
- Plier for POP rivets

H. Weight and Balance

None.

I. References

See the enclosed drawings.

J. Affected documents

The "Flight and Maintenance Manual", 2nd issue is replaced by the 3rd issue.

2. ACCOMPLISHMENT INSTRUCTIONS

A. Preparation

Use the following:

- tool kit from the glider equipment
- deflection angle protractor
- plier for POP rivets

B. Application

- Elevator control spring removal.

Eliminate the following in compliance with Appendix I:

- spring (item 1)
- screw (item 2)
- nut (item 3)

- Trim tab adjustment.

By means of screws item 1 according to Appendix II, adjust the trim tab operating range to the deflections indicated in the "Flight and Maintenance Manual" 3rd issue, page 6.45.

- The cockpit existing opening button replacing by red ones, delivered together with this bulletin.
- Front and rear seat-back fixing by POP rivet in compliance with Appendix III.
- Rear seat-back fixing by leather band for flights with one pilot.

Mount the parts according to Appendix III.

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- Remove the cockpit placards and the glider data plate and glue the new placards delivered together with this bulletin by using adequate adhesive, in compliance with Appendix IV.
- Fix the fairings for flap and air brake control rod from the cockpit delivered together with this bulletin according to Appendix III.
- Replace the Flight and Maintenance Manual 2nd issue by the 3rd issue.

C. Using instructions

None.

3. MATERIAL INFORMATION

A. Material list

- | | |
|--|--------|
| - cockpit red opening button | 2 pcs. |
| - limiting placard | 2 pcs. |
| - data plate | 1 pc. |
| - aerobatic placard | 2 pcs. |
| - flap and air brake control rod fairing | 1 pc. |
| - rear seat-back assembled band | 1 pc. |
| - POP rivet | 6 pcs. |
| - Parker screw | 2 pcs. |

B. Tooling list

Tool kit, deflection angle protractor, plier for POP rivets.

C. Supply instructions

None, since the materials are delivered together with this bulletin, by the manufacturing plant.

4. IDENTIFICATION

The application of the present Service Bulletin is mentioned in the glider log book.

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5. APPENDICES

- Flight and Maintenance Manual 3rd issue
- Part set according to chapter 3.A from the mandatory service bulletin IS-28B2/EO-3.

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ELEVATOR CONTROL DIAGRAM

Maximum weight

300 kg (104 lb)

272 kg (734 lb).

No. of Seats

One adjustable seat.

Ballast, Fixed

None.

- The baggage weight has no negative influence on the glider balance (See Flight and Maintenance Manual page 2.2.)

Control Surface Movements

	Position	- "1"	"1"	"2"	"3"
Flaps	up	5° ± 2°	Down	5°;	10°;
Ailerons	up	29° ± 4°	Down	15° ± 2°	15°; (2°)
Elevator	up	25° ± 2°	Down	20° ± 2°	
Rudder	Right	40° ± 2°	Left	40° ± 2°	

(See Flight and Maintenance Manual page 5.37).

Rated Load on Winch and Aero Tow

500 kg (1100 lb)

Serial Nos. Eligible.

From S/N No. 56 (See Import Requirements).

Certification Basis

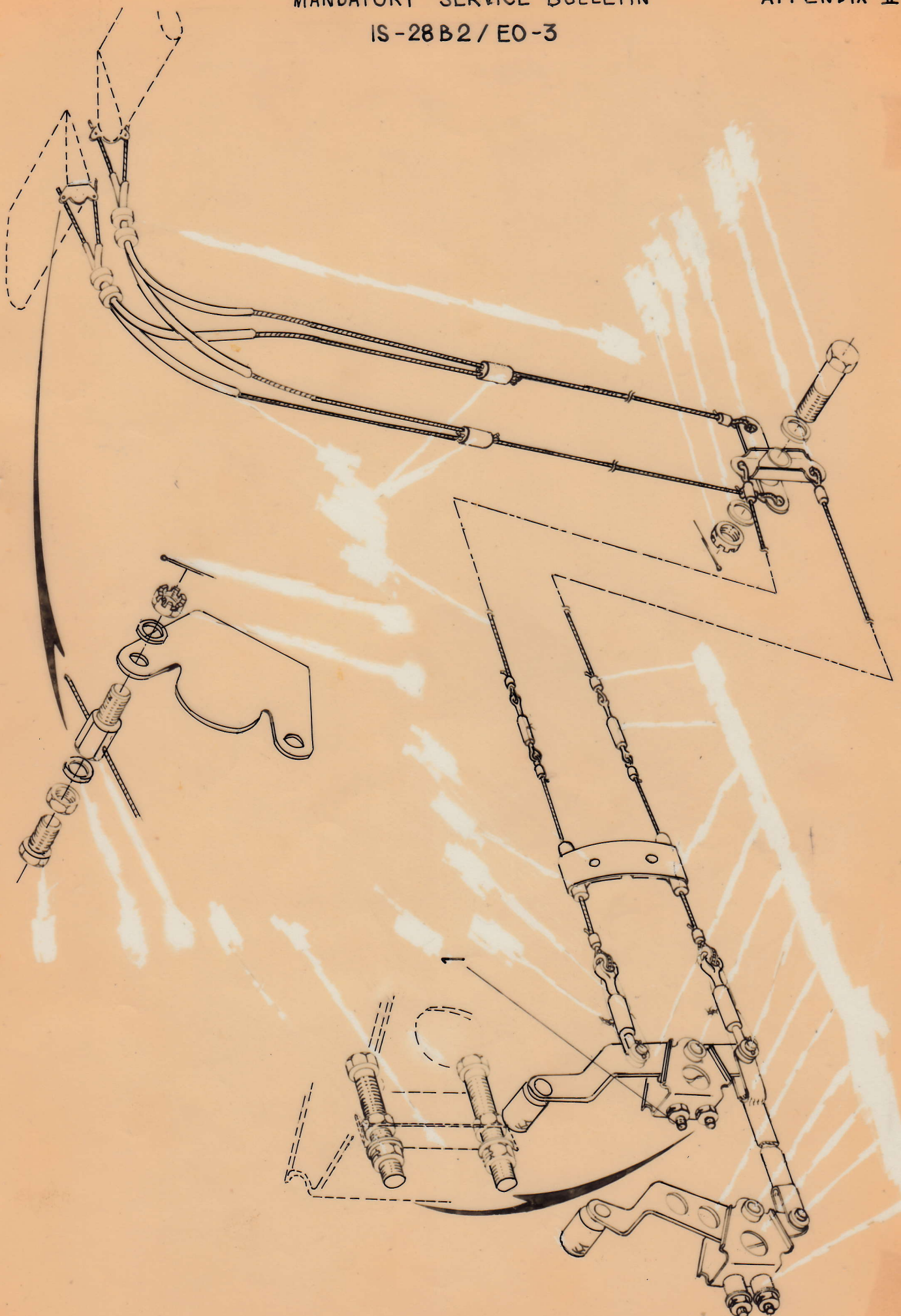
EAB 21.23 and FAR 21.29 effective February 1, 1965.

Type Certificate No. Issued

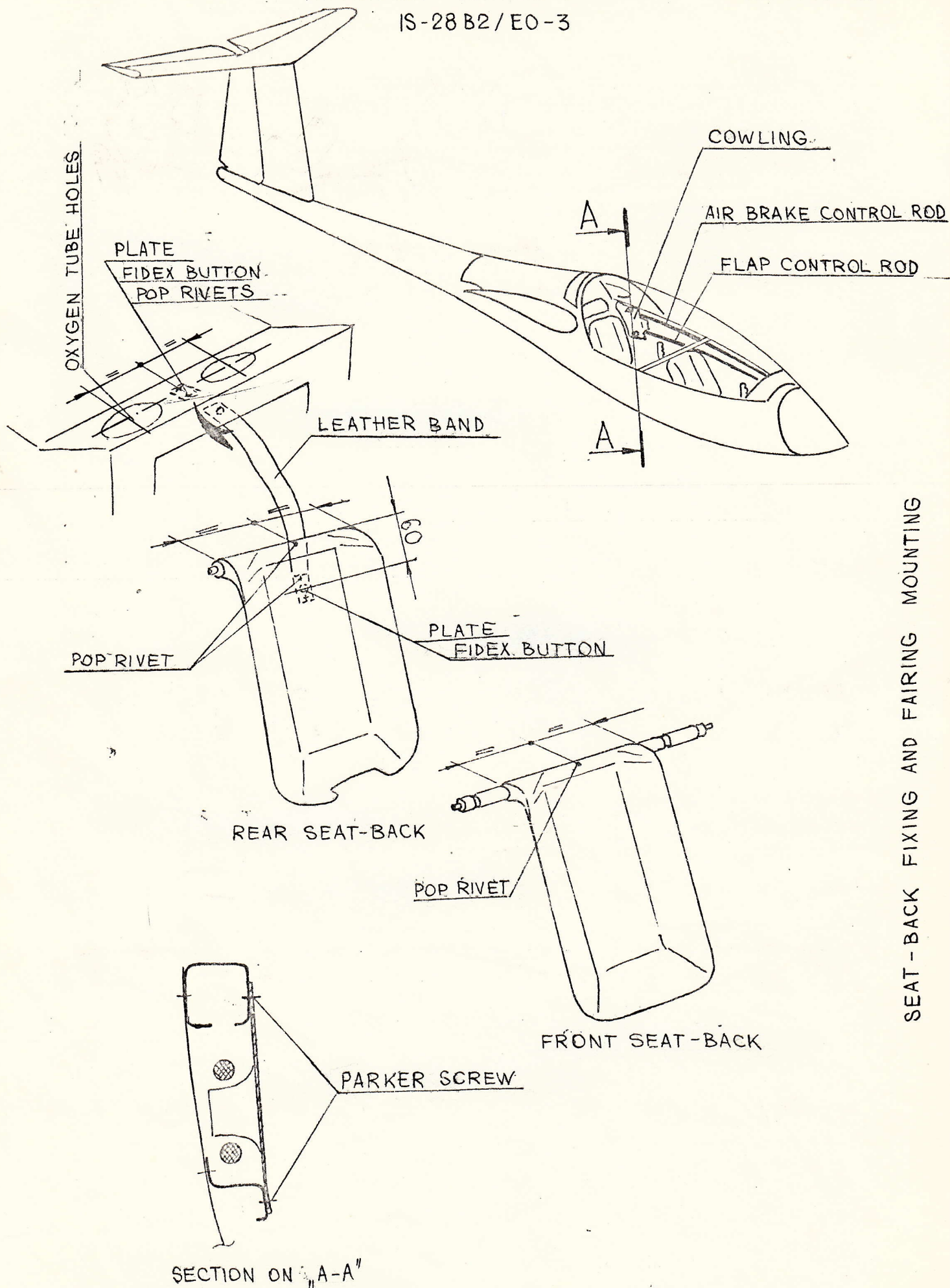
Date of Application for Type Certificate :

Validation Basis

Type Certificate was issued in accordance to EAB 21.29 (a) (1) in validation of the Department of Civil Aviation of Romania certification of compliance with the International Scientific and Technical Organization for sailplanes (OSTIV) airworthiness requirements for sailplanes dated December 1966 utility category for sailplanes. The Flight and Maintenance Manual holds F.A.A. approval no.... and . . . D. C. A. . . approval no....

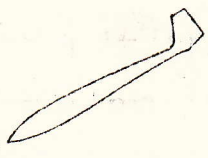






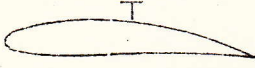



TRIM TAB CONTROL DIAGRAM



SEAT-BACK FIXING AND FAIRING MOUNTING

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LIMITARI		LIMITATIONS	Km/h	Knots	mph
V _{NE}			230	124	143
V _B			165	89	103
V _T			140	75	87
V _W			125	67	78
V _L			230	124	143
V _F		+3	130	70	81
V _{frână brake}			230	124	143
V _A			165	89	103
±n			+5,3 g -2,65 g		+6,5 g -4,0 g
G max.		Kgf	590		520
W max.		lb	1301		1146
G. min. pilot fără lest			Kgf	83	
Min. pilot weight without ballast			lb	183	

LIMITING PLACARD

AEROBATICS	ENTRY AIR SPEED		
	km/h	knots	mph
SPIN	70	38	43
LOOPING	170	92	106
TURN	170	92	106
STALLTURN	150	81	93

AEROBATIC PLACARD