

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

MANDATORY SERVICE BULLETIN

IS - 28B2 - E0 - 14

APPROVED BY : DEPARTMENT OF CIVIL AVIATION
With no. 10 205 / 17.09.1985
PRODUCT : IS - 28B2
OBJECT : REPLACEMENT OF AILERON CONTROL LEVER
COMPLIANCE : REVISION RECORD CARD
No. 564/10.03.1970 and no. 830/14.08.1985

Date : 20.08.1985

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SERVICE BULLETIN

1. PLANNING INFORMATION

A. Applicability

This bulletin is applied to all the IS-28B2 aircraft (up to serial no. 160, inclusive).

B. Reason

Increase of aerobatic flight safety

C. Description

a) Replace the duralumin NIA 181 - 2 forks with steel NIA 201-2 fork to both ends of the 30 AD - 02.029 rods of the aileron control from wing.

b) Replace the 30 AD.02.028 lever with another one having the same part number and an increased thinning in the forks attachment area.

D. Compliance

Revision Record Cards no. 564/10.03.1970 and no. 830/14.08.1985.

E. Accomplishment

The modification is applied by the manufacturing plant or a maintenance authorized work-shop not later than 01.10.1985.

F. Material - Cost and Availability

The modification is applied at the Buyer's expense with materials delivered free of charge by the manufacturing plant.

G. Tooling

Tool kit

Clinometer

H. Weight and Balance

Not affected

I. Documents Affected

The modification does not affect the technical servicing documents.

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2. ACCOMPLISHMENT INSTRUCTIONS

A. Work Preparation

- Dismount the cowl covering the junction area of the wing semi-planes
- Dismount the inspection covers on the wing lower side in the control area of the right and left ailerons.

B. Application

- a) Disengage rod 1 by removing the spherical joint 7 (detail A)
- b) Disengage the short rod 5 by dismounting items 14, 11, 12, 13 to both ailerons (detail B).
- c) Dismount both ailerons (remove the adhesive tape covering the access holes to the attachment pins, remove the pins lock and pull out the pins).
- d) Disengage fork 6 of rod 3 from aileron by dismounting items 10, 11, 12, 13 (detail B) in both wing semiplanes.
- e) Remove lever 4 (30 AD.02.028) by dismounting items 15, 11, 12, 13 (detail B) in both wing semiplanes.
- f) Measure and write down size "b" (detail B) for both wing semiplanes.
- g) Remove the lock washer 9, loosen the lock nut 8 and fully unscrew the NIA 181-2 fork item 6 (detail B) to both wing semiplanes.
- h) Pull the other end of rod 3 out of wing in order to get access to the fork.
- i) Dismount items 10, 11, 12, 13, (detail A)
- j) Measure and write down size "a" (detail A) for both wing semiplanes .
- k) Remove the lock washer 9, loosen the lock nut 8 and fully unscrew the NIA 181-2 fork item 6 (detail A7).

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- l) Mount the new 30 AD.02.028 lever. Secure a new cotter-pin 16 x 16 mm dia. STAS 1991-65, to both semiplanes.
- m) Screw the NIA 201-2 forks, observing the sizes "a" and "b" to the extent possible for the right and left rod.
- n) Temporarily, introduce the screws 10 connecting the forks to the rest of control.
Engage the spherical joints 7.
- o) Definitely mount the right and left aileron by screwing and securing the bolts and obturating the access holes with adhesive tape.
- p) Check the ailerons deflections according to the Flight and Maintenance Manual 6.45.
If the deflections are not satisfactory, modify the length of rods 1,3 and 5 until the deflections are within the required limits.
- r) Secure all the forks by tightening the lock nut and bending the lock washer.
- s) Definitely mount the forks attachment pins and secure them.
- t) Mount the wing lower side inspection covers and the cowl in the wing junction area.

C. Using Instructions

None

3. MATERIAL INFORMATION

A. Material List

Use the NIA 201-2 forks and 30 AD.02.028 levers delivered by the manufacturing plant, as well as an adequate number of cotter pins of 1.6 x 16 mm dia.

B. Tooling List

- Glider tool kit
- Clinometer

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C. Supply Indications

The modified parts are delivered by the manufacturing plant together with the present Service Bulletin.

4. IDENTIFICATION

The application of this Service Bulletin shall be mentioned in the aircraft log book.

5. APPENDICES

Part numbers list

Explanatory drawing

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PART NUMBERS LIST

(valid up to serial no. 160 inclusive)

| | |
|------------------------|-----------------|
| 1. Control rod | 28B.F02.024 |
| 2. Lever assy | 28B.AD/AS.02.08 |
| 3. Aileron control rod | 30AD.02.029 |
| 4. Assembled lever | 30AD.02.028 |
| 5. Threaded fork | 30Ad.02.024 |
| 6. Fork | NIA 181-2 |
| 7. Rod end M9.41.3.2. | NIP |
| 8. Nut AM 8 x 1.25-21 | NA 51007 |
| 9. Lock washer B8 | STAS. 2241-56 |
| 10. Screw M6x1-30 | NA 50028 |
| 11. Nut M6x1-31 | NA 51016 |
| 12. Washer 6x1-21 | NA 51201 |
| 13. Cotter pin 1.6x16 | STAS 1991-65 |
| 14. Screw M6x1-24 | NA 50028 |
| 15. Screw M6x1-34 | NA 50028 |

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