M.I.C.M. - C.N.I.A.R. INTREPRINDEREA DE CONSTRUCTII AERONAUTICE 2200 BRASOV

MANDATORY SERVICE BULLETIN

IS-29D2/E0-06

APPROVED BY: DEPARTMENT OF CIVIL AVIATION

with no. 2639/06.03.1985

PRODUCT: IS-29D2 glider

OBJECT: Safe life and service life increase

COMPLIANCE: Endurance studies of the manufacturing

plant and servicing experience

Revised translation: January 1987

DATE: 16.02.1985

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1. PLANNING INFORMATION

A. Applicability

This bulletin is applied to all the IS-29D2 gliders.

B. Reason

Increase of gliders safe life.

C. Description

The bulletin modifies the total safe and service life of the glider, as follows:

- total safe life: 3750 flight hours (15.000 landings)
- total service life: 20 years
- safe life until the first general revision and between general revisions: 750 flight hours (3000 landings)
- service life until the first gen.rev. and between general revisions: 6 years.

D. Compliance

Endurance studies and servicing experience of the manufacturing plant, for the IS-29D2 gliders.

E. Accomplishment

The bulletin shall be applied by:

- the user, to the gliders under servicing
- the manufacturing plant, to the gliders under stockage or manufacturing.

F. Material - Cost and Availability None.

G. Tooling

None.

H. Weight and Balance

Not affected.

I. References

Study compiled by the manufacturing plant concerning the gliders servicing behaviour and endurance tests.

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J. Documents affected

The IS-29D2 Flight and Maintenance Manual, 5th and 4th issue are modified by the pages appended to the present bulletin.

2. USING INSTRUCTIONS

A. Work preparation None.

B. Application

The modified pages shall be inserted in the IS-29D2 Flight and Maintenance Manual, 5th and 4th issue.

C. Servicing instructions

The following shall be complied with during servicing:

- total safe and service life
- safe and service life between general revisions.

3. MATERIAL INFORMATION

A. Material list

None.

B. Tooling list

None.

C. Supply indications

None.

4. IDENTIFICATION

The bulletin application shall be registered in the glider log book.

5. APPENDICES

- Amendment no. 6 the IS-29D2 Flight and Maintenance Manual, 5th issue
- Amendment no. 6 the IS-29D2 Flight and Maintenance Manual,
 4 issue.

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REVISION RECORD CARD

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The state of the s	Part no.	Amended page	Revision nature	Da of approval	t e of insertion	Signa- ture
	1.	A.1.1A.1.13	Dittel radio instal- lation (optional)	6.04.1979		
	2.	0.3.A; 1.0.A; 1.5.A;	Modification of canopy hinges to the gliders serial no. 122 and subs.	31, 01 1980		
	3.	03B; 6.0/2A; 6.0/3A; 6.23A -6.27A	Modification of rud- der control to the gliders serial no.142 and subs.; optional up to the glider serial no. 141.	03:03:1990		and the second
	4.	1.0.B;1.3A; 1.4A;1.5B; 2.0.A;2.4A; 2.7A;4.7A; 6.0/2B;6.0/3B; 6.18A;6.23B; 6.28A;6.28.1.	Constructive modifi- cations for the glider serial number 161 and subs.	25.05.19aZ		
	5.	0.3D; 6.9.A	Time increasement between two over- hauls	25.09.82		
	6.	6.15.A 0.3E; 6.9B 6.14.A;	Safe life increase.	06.03.85		
	7.	6.4.A; 6.38.A; 6.39.A;	Additional maintenance indications	2003.85		
	8.	6.37.A;6.37.1	A Documents improving	1906 85	37.4-2 11-0 11-0 11-0 11-0 11-0 11-0 11-0 11	
	9.	4.2.A;6.15.B 6.16.A	Nose reaease mounting (optional)	19.06 N		

6.3. MAINTENANCE WORKS

6.3.1. UNPERIODICAL INSPECTIONS

6.3.1.1. The daily inspection - is executed whenever the aircraft is prepared for flight activity.

This inspection is executed in compliance with paragraph 4.1.

6.3.1.2. The occasional inspection - is executed whenever abnormal events occurred (transport blows, landings outside the airfield, abnormal operation, etc).

When executing these inspections particularly insist on elements having been stressed or to which damages or abnormal operation were noticed.

After excessive stresses, the inspection shall be executed carefully to all vital elements (wing junction, tails and adjacent structures fittings, controls connection to control surfaces inspecting at the same time the painting and skin condition which could indicate the possible local overstresses.

6.3.2. INSPECTIONS AND REVISIONS SUCCESSION

The maintenance works and the glider revisions have the following periodicity:

C= inspection after every 100 flight hours.

6

 R_1 =revision after every 200 flight hours or one year of operation.

 R_2 =revision after every 500 flight hours or 4 years of operation.

 R_{G} =general revision after 750 flight hours, 3000 landings or 6 years of operation.

The total safe life of the glider is 3750 flight hours or 15.000 landings or 20 years.

The only assembly included into the glider construction, which has a limited safe life is the release. In compliance with TOST indications, the release is dismounted and sent for revision, after 2000 lunches or 3 years of operation.

5th B ISSUE : FEBRUARY 1985

SYSTEMS MAINTENANCE

Maintenance works periodicity

,		According to Indications	0				
		After 750 hours					
		After every 500 hours					
		After every 200 hours					,
			7			-	1
		After every 100 hours					
LANDING GEAR							
1. Visual check	of landing gear holder and	riveting to structure.		**			21
2. Visual check of wheel fork (distortion corrosion).			*	*			4
3. Visual check	of shock-absorber coddition	ni (dicasina)	1	*			
4. Inspection of	f wheels (main wheel and to (greasing of control and sh	ne drive cam shaft).		*			2
5. Wheel brake	of shoes and drum surface.	ios di ivo dam ono ey					
6. Inspection o	f wheel fork - to - landing	gear support joint, by				*	
dismounting.	wear evaluation and greas	ing.					
7. Inspection o	f wheel fork - to - shock	absorber and snock				*	
-absorber fo	ork joint by dismounting (w	ear and greasing/.					
AIRCRAFT	legación de differencia de compo		7	13%			
	ection of glider exterior.		*	*			
2. Inspection of	of alider structure condition	on.		-	*		
3. Visual check	of skin junction areas on	fuselage and wing.		*		+	55
4. Visual check	of wing Junction, greasing	g•		1		*	
5. Wear check t	to wing-to-fuselage junction wing junction fittings, me	n doits.				*	5
7 Visual chack	k of tails junction, greasi	nq.		×			
& Wear check t	to horizontal tall attachme	nt pin.				*	
9. Dismounting	of control surfaces, inspe	ction of hinges clearances.	1.	-		*	
10 Dlavialace	rannov (vicinal check)		*	*			
11. Canopy hinge	es, greasing inspection (co	chment.		*		, value	
13. Visual check	k of instrument panel shock	-absorbers, instruments, etc.		*		V.	3
the Imakeumant	nanal dismounting, replacem	ent of instrument panel				*	1
sheck-absort	bers (depending their condi	tion).				2	
15. Compass tri	Ma					*	
16. Air scoops,	pipes, sealings, wiring - cement (rubber of plastic p	oipes).				*	
18. Watter sett	ler - drainage, sealing (Br	aunschweig system/		*		1,	
10 Replacement	of rubber elements to Brau	inschweig system.			l.v	*	
20. Radio, anter	nna wiring (if any) accordi	ng to equipment instructions.			*	1	6
21. Check of box	ard instruments in the work	shop.				1	-
CONTROLS							
and the second s	b of wiring, bearing puller	s, greasing, replacement of		*			
candow (acc	ording to its condition).						
2 Wend chec	k of sticks, under floor at	rea, inspection of elevator ar	d	*		*	
airleron contro	ol clearance, check of air t	orake control lock, Inspec-					
tion of cab	les tension. k of trim tab and trim spr	ing condition.		*			
4. Visual chec	k of rudder pedal assembly	, greasing, sandow replace-		*			
ment (accor	ding to condition).	A CONTRACTOR OF THE CONTRACTOR					
		Page 6.14A		1		1	1
5 th a ISS	SUE : FEBRUARY 1985						

FLIGHT AND MAINTENANCE MANUAL IS-29D2

LIST OF INSERTED MODIFICATIONS

The spots where modifications were inserted are marked by a vertical line and the respective modification number.

		/			
Num-	Revised	Character of	Dat	Sig-	
ber	pages	modification	of appro-	of effecting it in the hand-	na- tu-
				book's text	re
1.	14A,	Bahavior near	july 1976	July. 1976	lust.
	14.1.A	stalling speed		act. 1976	hust.
2.	26.A 36.A	The horizontal tail mounting	oct. 1976	act-1916;	
3.	4A; 40A	Braunschweig system			10.1
		capability	april 1977	april. 1977	Mushan Mushan
4.	19.A.1	Equipament specification	april 1977	april. 1977 april 1977	Cusha
5.	41.A	Position error			
		correction to indicated			
		airspeed	15.11.1977		
6.	27.A				
	37 • A	Safe life			
	38.A	increase			
7.		FOR ROMANIA ON	ΓX		
8.	27.B. 27.L. 37.B. 38.B. 38.1.	FOR ROMANIA ON	IX 26.01-1990		

indications must be observed :

- the fuselage shall be seated on at least 2 profiled blocks par placed under one resisting panel;
- for securing the fuselage, one of the two pairs of cylindrical bolts will be used:
- the wings shall be placed with the leading edge down and the following points will be chosen for supporting them:
- the span for its basis;
- a profiled block placed at 1/3 of the wing's length;
- the stabilizer and the depth rudder shall be fixed on a profiled block, the depth rudder being secured against metion. It is recommended that this ensemble shall be also placed with the leading edge down, during transportation.

7.5. SEQUENCE OF REPAIRS

Revision and maintenance works necessary to a proper operation may be schematically represented, versus flight hours, as follows:

C=inspection after every 100 flight hours. $R_1 = \text{revision after every 200 flight hours or one year of operation.} \\ R_2 = \text{revision after every 500 flight hours or 4 years of operation.} \\ R_G = \text{general revision after 750 flight hours, 3000 landings or 6 years}$

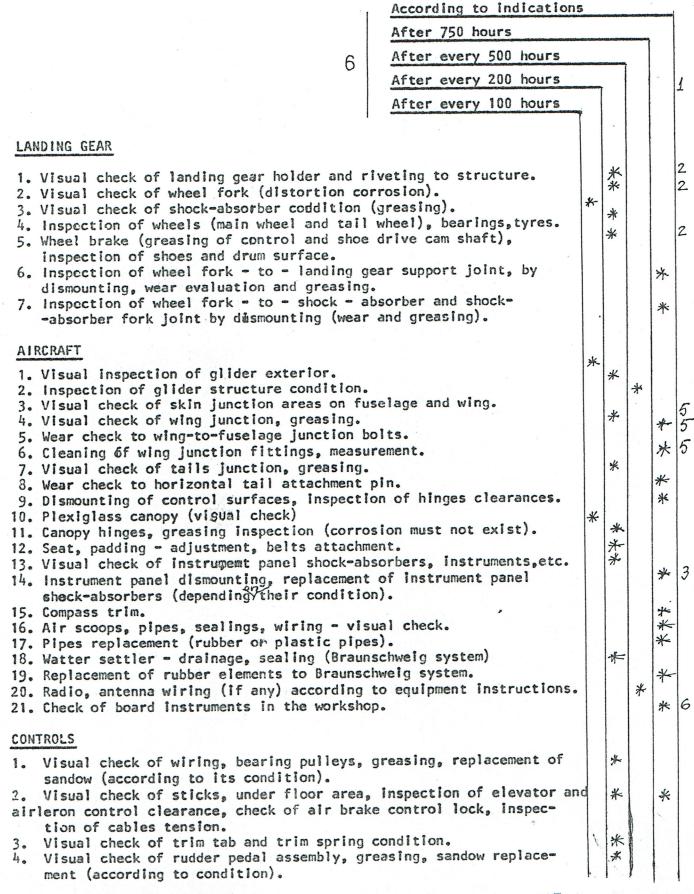
The total safe life of the glider is 3750 flight hours or 15,000 landings or 20 years.

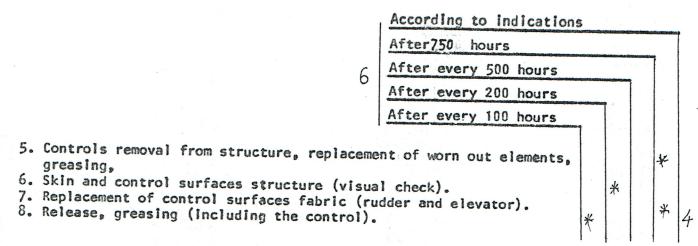
6

of operation.

SYSTEMS MAINTENANCE

Maintenance works periodicity





- 1. The operations indicated in this column shall be carried out after every 200 flight hours or at least once a year, preferably at the beginning of the flying season.
- 2. The landing gear shall be also checked every time an abnormal landing occured (forced or heavy landing).
- 3. The trim shall be carried out after every installation of new instruments on the instrument panel, particularly those creating electromagnetic fields.
- 4. The operations shall be carried out according to the maintenance and servicing instructions for TOST releases, type E72 and E73.
- 5. In case of corrosion traces, use very fine abrasive paper to remove them (by circular movement) and then grease.
- 6. The check shall be also performed if wrong indications are noticed.