

DEPARTMENT OF TRANSPORT

AIRWORTHINESS DIRECTIVE GLIDERS:

GFA/AD/151

ROLLADEN SCHNEIDER 14

TM/38/3013

TB/38/3013

TYPES AFFECTED: L.S. GLIDERS - Versions LS 1-e, LS 1-ef, LS 1 f,
LS 2, LS 3. Technical Bulletin
No. 38/3013 refers

BACKGROUND:

It has been found necessary to replace the spring member in the elevator actuator with a rigid member.

REQUIRED ACTIONS:

1. The glider's V.N.E. is to be restricted to 108 knots until actions No. 2 and 3 have been performed.
 - 1a. Mark the airspeed indicator glass with a red line corresponding with 108 knots using red adhesive tape.
 - 1b. Alter V.N.E. on Airspeed limit placard to 108 knots.
 - 1c. This A.D. to be carried in flight manual until actions 2 and 3 have been performed.

2. Modify elevator drive actuator according to the following instructions and drawing 3R3-45
 - (i) Remove the rudder taking careful note of the sequence of the washers at the lower bearing.
 - (ii) Remove bolt (6) and open out 6 mm dia. holes in part (16) to 7 mm H7 tolerance.
 - (iii) Mark location of forward bolt (7) on the outside left hand side of the fin and drill a 12 mm ($\frac{1}{2}$ ") dia. hole.
 - (iv) Remove forward bolt (7) through hole.
 - (v) Swing part (16) backwards until rear bolt (7) may be removed without damaging rear edge of fin.
 - (vi) Remove parts (4) and (5) and assemble part (2) according to drawing 3R3-45
 - (vii) Assemble part (1) according to drawing but do not tighten nut completely.
 - (viii) Assemble horizontal tail unit and turn part (1) until elevator drive is free of backlash. Dot on hexagon head of part (1) marks maximum eccentricity. Elevator free play should be less than 2 mm at trailing edge when control column is fixed in neutral position of the elevator. After adjustment tighten nut on part (1) completely but do not overtighten.
 - (ix) Check functioning of elevator and check range of travel and adjust push rods if necessary.
 - (x) Reassemble rudder ensuring that washers are replaced in the original order at the lower bearing.

REQUIRED ACTIONS: (Continued)

3. Carry out a final inspection and recheck correct operation and range of travel. Ensure that there is no interference between the elevator controls and rudder.

MATERIALS: Refer to drawing 3R3-45 Components for the modification together with instructions may be obtained from the Manufacturer.

COMPLIANCE:

Actions 1, a, b, and c, may be carried out by the owner.

Actions 2 and 3 may be carried out by the holder of a Glider Inspectors Certificate D.O.T. 1109 endorsed for replacement of components or higher rating.

The requirements of this directive are mandatory.

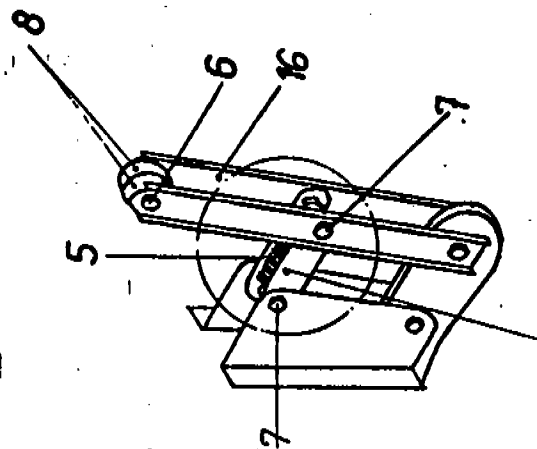
This directive is issued pursuant to Air Navigation Regulations under the delegated authority of the Secretary, Department of Transport.

Douglas Lyon

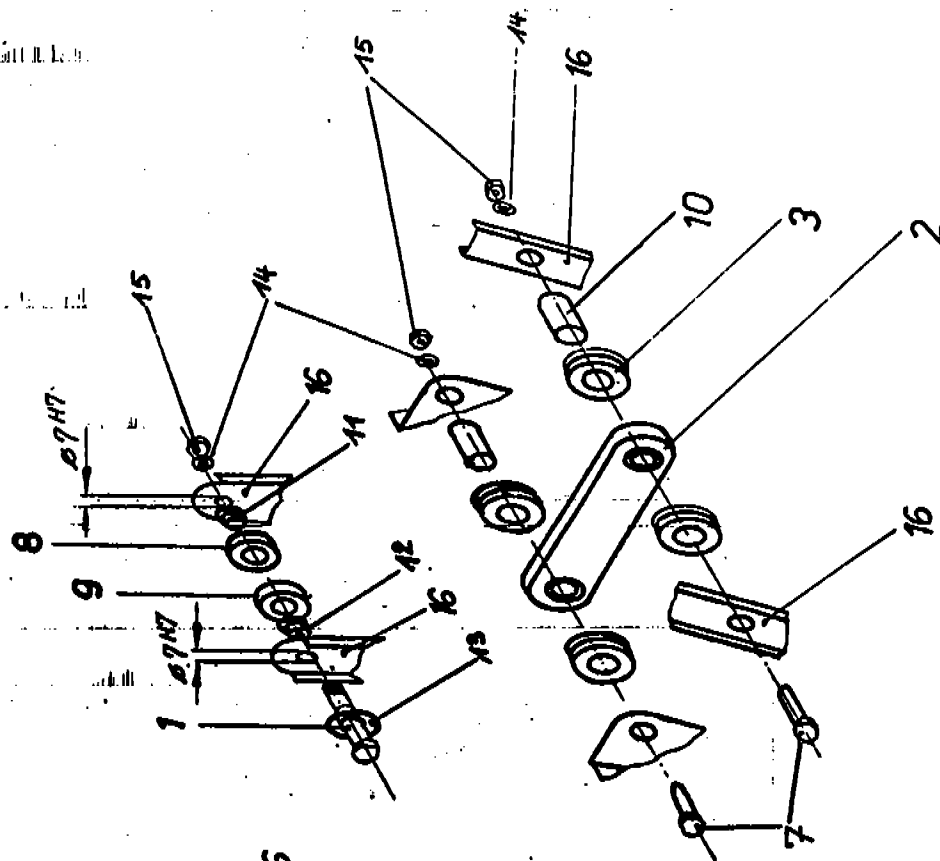
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CHIEF TECHNICAL OFFICER AIRWORTHINESS
GLIDING FEDERATION OF AUSTRALIA

Date of issue. 3rd July, 1979

ELEVATOR DRIVE (before)



ELEVATOR DRIVE (after)



	16	2	Zwangsantriebsstoßstange			
self locking nut	15	3	Stoppmutter M6	UN 9346		
washer	14	3	U-Scheibe B 6,3	DIN 425 S1		
hooked lock washer	13	1	Zahnscheibe J 24	DIN 6971 S1 cadmiert		
washer	12	2	U-Scheiben B 24	DIN 425 S1		
washer	11	2	U-Scheiben B 6,3	DIN 425 S1		4R3-44
bush	10	2	Buchse			
bearing	9	1	Rillenkugellager SKF 507 2RS1			
bearing	8	3	Rillenkugellager 626.2Z			
bolt	7	1	Sechskantschraube M6 x 32	UN 9037		
bolt	6	1	Sechskantschraube M6 x 32	UN 9037		4R3-12
spring	5	1	Feder			4R3-4
	4	2	Parallelogramm-Blech			
washer	3	8	Distanzscheibe U-Scheibe A 8.4 x 22 x 0,8	DIN 425	H01 PVC	
	2	1	Parallelogramm-Hebel			4R3-44
	1	1	Erzentralschraube			4R3-31

DRAWING N° 3R3-45
GFA AD151