



AIRWORTHINESS DIRECTIVE

Issue 1

CANCELLED 21/05/2019

TYPE AFFECTED:Schempp-Hirth Cirrus
Cirrus VTCSUBJECT:

Flight Manual amendment

BACKGROUND:

The Schempp-Hirth factory have issued Technical Note 265-7 which calls for amendment to the Flight Manual "C. of G positions" and "loading plan".

ACTION:

Exchange or add Flight manual pages 1,2, 12a, 12b, 12c, 12d, 12e and 13, all dated March 1984.

IMPLEMENTATION:

Pages may be exchanged by any competent person.

WEIGHT AND BALANCE:

No influence.

MATERIALS:Manual pages available from the GFA Secretariat,
130 Wirraway Rd. Essendon Airport. Vic. 3041COMPLIANCE:

The requirements of this Airworthiness Directive are mandatory. This Directive is issued pursuant to Air Navigation Regulations under the delegated authority of The Secretary of the Department of Aviation.

Issued by:

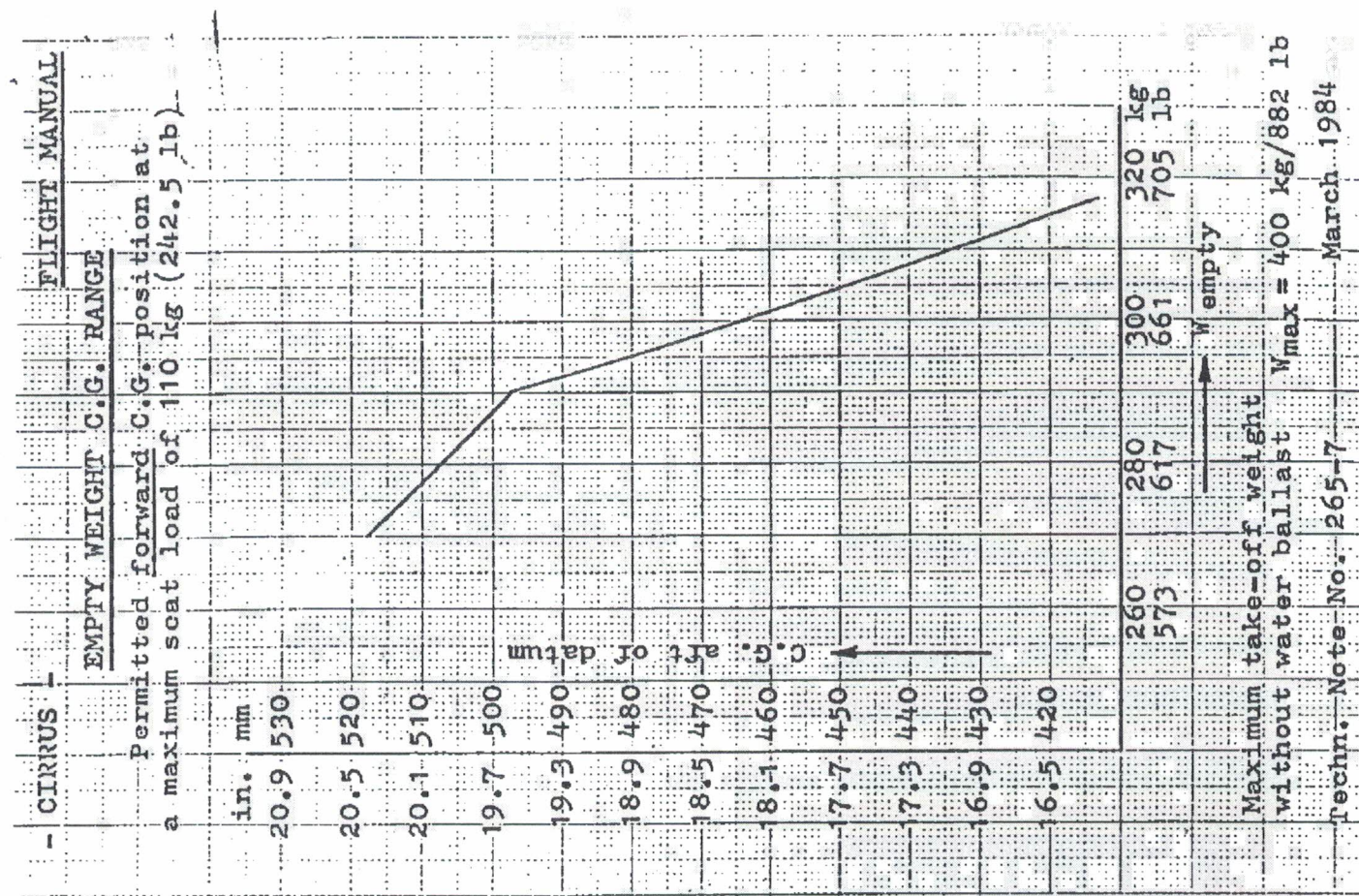
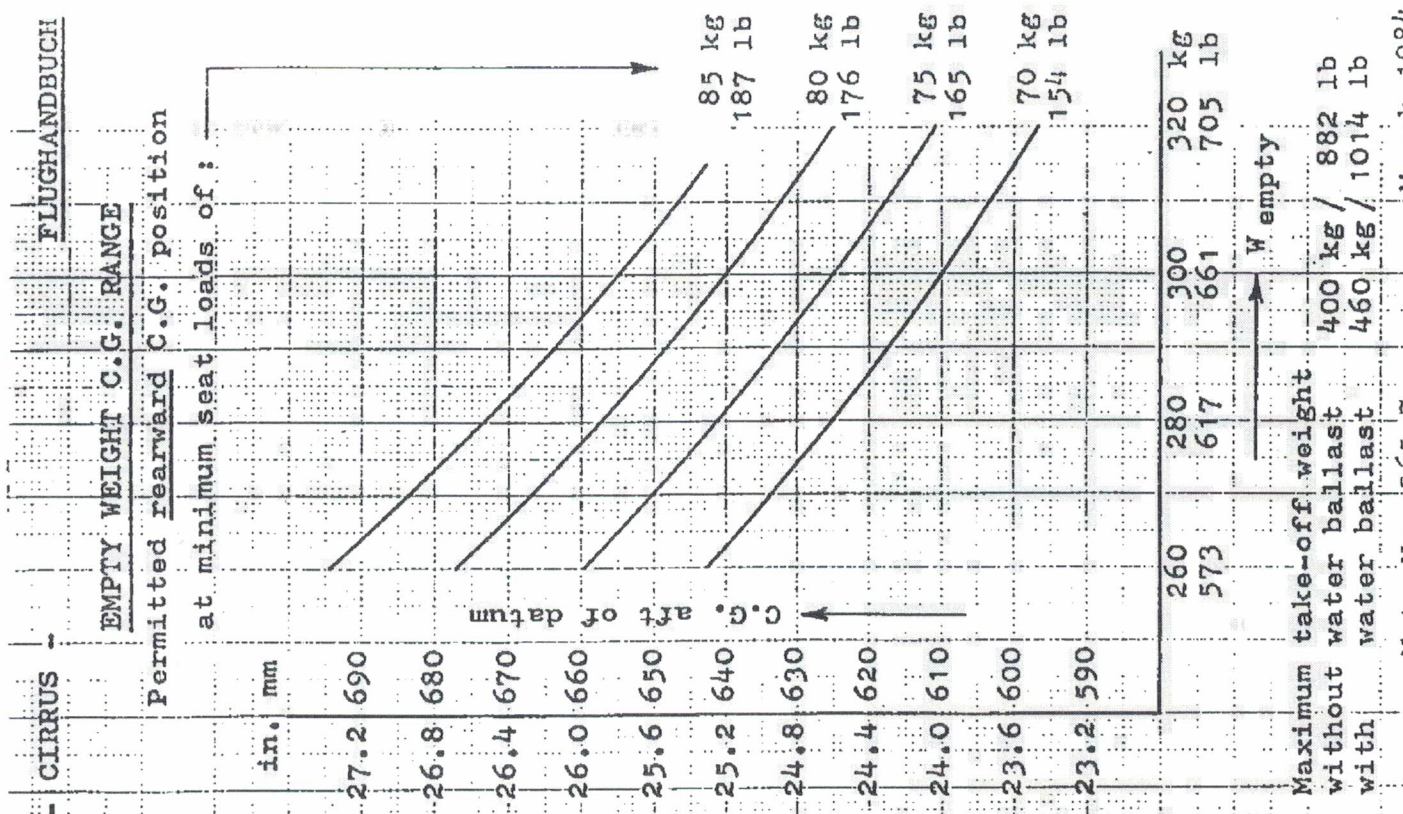
Chief Technical Officer,
Airworthiness

3/9/1987

For and on behalf of:

GLIDING FEDERATION OF AUSTRALIA

Sheet 1 of 1



5. C.G. Positions

- a) C.G. range in flight (at all weights)
 Leveling means: Slope of rear top surface of fuselage 100 to 3.8, tail down

Datum (BE): Wing leading edge at root rib
 Max. forward C.G.: 223 mm (8.8 in.)
 Max. rearward C.G.: 400 mm (15.7 in.)

It is very important that the maximum permitted rearward C.G. position is not exceeded, which is warranted when the minimum seat load is observed.

Less seat load must be balanced by ballast, see also loading plan, Section 6.

b) Empty weight C.G. position

This sailplane must be weighed after repairs of major nature, after additional equipment, after a new painting etc., but at least once every four years.

It is important to ensure that the empty weight C.G. is within the permitted limits. If necessary, compensating ballast weight must be installed.

If the empty weight C.G. limits and the loading plan are observed, the C.G. position in flight will be within the permitted limits.

The determination of the C.G. ranges as shown in the diagrams on page 12C and 12D is done with the following seat loads:

Forward C.G.

position: With a maximum seat load of 110 kg (242.5 lb).

Rearward C.G.

position: With various minimum seat load

For easier determination of the "empty" weight C.G. position the table below shows at various empty weights the maximum permissible tail skid loads with various seat loads (with reference to the rearward C.G. position).

Just determine the actual tail skid load with the sailplane in weighing position. For leveling means see page 12A and 15. If the determined tail skid load is below the value shown in the table, the C.G. position is within the permitted range.

Empty weight kg lb	Tail skid load at a seat load of:								
	70 kg lb	154 kg lb	75 kg lb	165 kg lb	80 kg lb	176 kg lb	85 kg lb	18 kg lb	
260	573	27.6	60.8	28.6	63.0	29.7	65.4	30.7	67
270	595	28.1	61.9	29.2	64.3	30.2	66.5	31.2	68
280	617	28.6	63.0	29.7	65.4	30.7	67.6	31.7	69
290	639	29.1	64.1	30.2	66.5	31.2	68.7	32.2	70
300	661	29.6	65.2	30.7	67.6	31.7	69.8	32.8	72
310	683	30.1	66.3	31.2	68.7	32.2	70.9	33.3	73
320	705	30.6	67.4	31.7	69.8	32.7	72.1	—	—

- CIRRUS -		- Flight Manual -		- CIRRUS -		Flight and Service Manual			
Amendments				Table of contents					
No.	Item	Page	Approval	Amendment list					
1.	Techn. Note No. 265-7	12A	March 1984	Flight Manual					
	Flight Manual:	12B		1. Operating data and limitations					
	Amendments to sections	12C		2. Flying operations					
	5. C.G. positions and	12D		3. Minimum equipment					
	6. Loading plan	12E		4. Wing and tail setting					
		13		5. C.G. positions					
				Weight and balance log sheet					
				6. Loading plan					
				Control movements					
				Weight and balance					
				Tail drag parachute					
				Water ballast					
				Service Manual					
				Assembly					
				Check list					
				Maintenance					
				Play in the control systems and in the elevator					
				Hinge moments and weights					
				Damper in the rudder control					
				Appendix					
				Polar curve					
				Repair instructions					
				Operating and maintenance instructions for tail parachutes					
				Techn. Note No. 265-7					
				März 1984					

- CIRRUS -		Flight and Service Manual	
Table of contents		Page	
Amendment list		2	
Flight Manual			
1. Operating data and limitations		3	
2. Flying operations		4 - 11	
3. Minimum equipment		11	
4. Wing and tail setting		11	
5. C.G. positions		12A - 12D	
Weight and balance log sheet		12E	
6. Loading plan		13	
Control movements		14	
Weight and balance		15	
Tail drag parachute		16 - 17	
Water ballast		18 - 19	

Service Manual			
Assembly		20 - 21	
Check list		22 - 23	
Maintenance		24 - 25	
Play in the control systems and in the elevator		26	
Hinge moments and weights		27 - 28	
Damper in the rudder control		29	
Appendix			
Polar curve			
Repair instructions			
Operating and maintenance instructions for tail parachutes			
Techn. Note No. 265-7			März 1984

6. Loading plan.

Seat load (pilot and parachute)

Minimum load: 70 kg (154.3 lbs)

Maximum load: 110 kg (242.5 lbs)

Please note eventual deviations thereof,
see weight and balance log sheet,
page 12 E.

At less minimum seat load a compensation with ballast is required.

The ballast (lead - or sand cushion) must be securely held in place.

Neither the maximum permitted take-off weight nor the maximum permitted weight of non-lift carrying parts may be exceeded.

C.G. position of the pilot

(with parachute or back cushion)

500 mm (19.7 inches) ahead of Datum

C.G. position of the waterballast

appr. 210 mm (8.27 inches) aft of datum

Techn. Note No. 265-7

March 1984

[illegible]

Techn. Note No. 265-7

March 1984