

THE GLIDING FEDERATION OF AUSTRALIA

BUILDING 130, WIRRAWAY ROAD, ESSENDON AIRPORT, VICTORIA 3041.

GFA/AD	243	
ROLLADEN	SCHNEIDER	21.
Issue	1	
5.10.19	982	

Sheet 1 of 1

AIRWORTHINESS DIRECTIVE GLIDER/POWERED SAILPLANE

CANCELLED 3-10-2018

KERD TYPE CELLIFICATE HOLDERS WERSITE

TYPE AFFECTED:

LS3 gliders.

SUBJECT:

Corrections to Flight and Maintenance Manual

BACKGROUND:

Manufacturers Technical bulletin 3029 provides amendments

for both manuals.

REQUIREMENT:

Flight Manual: - Exchange Pages 0.5 and 1.3

Maintenance Manual - Exchange pages 00.1 and 00.2, 3.3, 5.1,

12.3 and add page 13.12. (Pages attached)

COMPLIANCE:

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

M.P. BURNS.

CHIEF TECHNICAL OFFICER AIRWORTHINESS GLIDING FEDERATION OF AUSTRALIA.

Rolladen Schneider Sailplane Division

Flight Manual LS3

Page 0.5

Edition: Dec.3,1976

LIST OF PAGES

Page	Edition	Edition	Edition	Edition	Edition	Edition	Edition	Edition
0.2	12.3.76		A services					
0.3	12.3.76							
0.4	12.3.76							
0.5	12.3.76		•				• 1000	
0.6	12.3.76							
1.1	12.3.76							
1.2	12.3.76							
1.3	12.3.76	1.10.82						
1.4	12.3.76							
	12.3.76							
1.6	12.3.76							
	12.3.76							
1.8	12.3.76							
	12.3.76			•	1.			1.
	12.3.76							
								and the same
2.1	12.3.76							
	12.3.76	Salar and Market Services and						
	12.3.76							

Rolladen Schneider Sailplane Division

Flight Manual LS3

Operating Limitations

Page 1.3

Edition: 1.10.82

Colour Marking on Airspeed Indicator

Green Range 85 - 190 km/h (46-103 kts, 53-118 mph): The sailplane can not be stalled at maximum weight of 472 kp (1041 lbs) and speeds above 85 km/h (46 kts, 53 mph), regardless of flap position and with dive brakes deployed.

The structural limits of the aircraft cannot be exceeded at speeds below 190 km/h (103 kts, 118 mph) through severe turbulence or control surface deflections.

Yellow Range 190 - 270 km/h (103-146 kts, 118-168 mph): The structural limits of the aircraft can be exceeded in this range by severe turbulence, or through rapid deflections of control surfaces.

Severe turbulence would include wave rotors, visible wind funnels, cumulonimbus clouds or when crossing mountain ridges in strong winds. Therefore, in this speed range severe turbulence should be avoided, and control surface movements should be gentle.

Red Line Speed 270 km/h (146 kts, 168 mph): Never exceed.

White Range 85 - 190 km/h (46-103 kts, 53-118 mph): At maximum weight of 472 kp (1041 lbs) 85 km/h (46 kts,53 mph) is minimum speed in straight and level flight and flap position +10°. 190 km/h (103 kts, 118 mph) is maximum permissible speed with flap positions from +10° to 0°.

Yellow Triangle 90 km/h (49 kts, 56 mph): Recommended approach to landing speed without water ballast.

Rolladen Schneider Sailplane Division

Maintenance Manual LS3

Page 00.1

Edition: Dec.3,1976

LIST OF PAGES

Page	Edition	Edition	Edition	Edition	Edition	Edition	Edition	Edition
	12.3.76							
1.0	1203010	-						
2.0	12.3.76	-						
1.00	12.3.76							
00.2	12.3.76		 					
0.3	12.3.76				· ·			
.1	12.3.76							
.2	12.3.76							-
2.1	12.3.76							
2.2	12.3.76							
.3	12.3.76		and the second s					
.4	12.3.76							
2.5	12.3.76							
.1	12.3.76							
.2	12.3.76				A STATE OF THE STA			
	12.3.76	1.10.82						
.3	1207010	10.002						
.1	12.3.76	<u> </u>			•			
	12.3.76							
	12.3.76			-				
.1	12.3.76	1.10.82						
.1	12.3.76							
.2	12.3.76	1957						
7.1	12.3.76						_	
3.1	12.3.76	9/19/11/11						

Rolladen Schneider Sailplane Division

Maintenance Manual LS3

Page 00.2

Edition: Dec. 3, 1976

List of pages continued

Page	Edition							
9,1	12.3.76			-				
0.1	12.3.76							
0.2	12.3.76							
0.3	12.3.76	0.00						
1.1	12.3.76							
	12.3.76	1						
	12.3.76							
2.2	12.3.76							
2.3	12.3.76	1.10.82						
	12.3.76							
2.5	12.3.76						1	
	12.3.76							
3.2	12.3.76							
3.3	12.3.76							
3.4	12-3-76							
	12-3-76							
	12.3.76							
	12.3.76							
	12.3.76			5.4		1		
	12.3.76							
3.10	12.3.76							
3.11	12.3.76							

Edition: 1.10.82

LUBRICATION SCHEDULE

Location	Frequency	Lubricant
1. Pins and matching holes of automatic connectors, main pins and matching	Before assembly	Water unsoluble bearing grease or Grease containing Molybdenum
holes. 2. Landing gear, all joints at rubber bearings	Once a year Once a year	011
All metal parts	Once a year	Spray oil
 Bearings on aileron automatic connectors Dive brakes drive (bevel gear) 	Once a year	Water insoluble bearing grease or Grease containing Molybdenum
5. Tow release	See Maintenance	Spray oil
6. FAG-7H safety harness multiple-point buckle	Instructions of Manufactures	

		Contract Con	
Rolladen Schneider		LS3	Page 5.1
Flugzeugbau GmbH	Maintenance Manual		Edition 1.10.82

COMPONENTS LIFE / TBO

- 1. C.G. release Tost Europa G73: 36 months or 2000 starts)*
 or Tost Europa G72
- 2. Nose release Tost E75: 36 months or 2000 starts) to Tost E72
- 3. Safety harness Autoflug FAG-7H: 10 years from manufacturing date.)

 (Before 1980 manufactured safety harnesses only 7 years)

⁾ See also Maintenance and Operating Instructions of manufacturers.

Edition: 1.10.82

INSTRUMENTATION

Required installed instruments approved during initial type certification:

Name Maker Type TSO-Standard Airspeed Indicator Winter 6FMS4-2 TSO C-2b

Altimeter Winter 4FGH 10 TSO C-10b including AS 392C

Magnetic Compass Airpath C 2300 TSO C-7c

MASTER EQUIPMENT LIST (Instruments)

Basic Equipment Instruments

1. Approved Airspeed Indicators
Original certification was carried out using a Winter 6FMS4-2 airspeed indicator
with a range of 30 to 300 km/h.

Any FAA approved airspeed indicator for use in aircraft with an effective range of 300 km/h (162 kts, 186 mph) may be used.

Colour coding must be as follows:

146 kts 168 mph red radial 270 km/h 190-270 km/h 103-146 kts 118-168 mph yellow arc 46-103 kts 53-118 mph 85-190 km/h green arc 85-190 km/h 46-103 kts 53-118 mph white arc 56 mph 49 kts yellow triangle 90 km/h

Rolladen Schneider Flugzeugbau GmbH

Maintenance Manual

LS3

Page 13.12

Edition 1.10.82

Recommendations to maintenance and care of gelcoat surfaces according to paint manufacturer Lesonal's note dated 7.7.81

Suitable: Water with washing-up liquid added in recommended quantities, car polish with or without silicone.

Suitable with reservations: Tar remover based on petrol for cars. Alcohol, like spirit or isopropyl alcohol. Reservations are, that these liquids should only be used for wiping off, not for soaking with rags!

Unsuitable: Strong solvents and thinners, they may decompose gelcoat and cause local shrinking.

Completely unsuitable: Trichloroethylene, carbon tetrachloride or similar hydrocarbon chlorides. These liquids destroy the gelcoat.

Other mediums must be checked for suitability by Lesonal before use !

Warning: Sanded gelcoat shows distinctive weathering marks due to changes of temperature, ultra violet radiation and humidity unless regularly polished with hardwax.