

# Maintenance Manual LS7

## 0 General

### 0.1 Manual amendments

| No. | Page  | Description  | Date          |
|-----|---|--|---------------|
| 0.1 | all   | Combination of the initial Maintenance Manuals of the Variants LS7 and LS7-WL, new standardized format | December 2009 |
| 0.2 | 0-9, 3-2, 3-3, 3-5, 4-1, 4-6, 4-11, 5-1, 5-2, 6-1, 8-1, 9-1 – 9-4, 10-1, 11-1, 11-2, 12-2, 12-4 | Miscellaneous changes to the contents of the latest amendments of the initial maintenance manuals      | December 2009 |
| 1   | 0-1, 0-3, 0-4, 7-2, 7-3   | TN 7017<br>Small tailwheel   | January 2015  |

## Maintenance Manual LS7

### 0.2 List of effective pages

| Section | page | issued     | replaced   | replaced | replaced |
|---------|------|------------|------------|----------|----------|
| 0       | 0-1  | See manual | amendments |          |          |
|         | 0-2  | See manual | amendments |          |          |
|         | 0-3  | See manual | amendments |          |          |
|         | 0-4  | See manual | amendments |          |          |
|         | 0-5  | See manual | amendments |          |          |
|         | 0-6  | December   | 09         |          |          |
|         | 0-7  | "          |            |          |          |
|         | 0-8  | "          |            |          |          |
|         | 0-9  | "          |            |          |          |
| 1       | 1-1  | December   | 09         |          |          |
|         | 1-2  | "          |            |          |          |
|         | 1-3  | "          |            |          |          |
|         | 1-4  | "          |            |          |          |
|         | 1-5  | "          |            |          |          |
|         | 1-6  | "          |            |          |          |
|         | 1-7  | "          |            |          |          |
|         | 1-8  | "          |            |          |          |
|         | 1-9  | "          |            |          |          |
|         | 1-10 | "          |            |          |          |
| 2       | 2-1  | December   | 09         |          |          |
|         | 2-2  | "          |            |          |          |
|         | 2-3  | "          |            |          |          |
|         | 2-4  | "          |            |          |          |
|         | 2-5  | "          |            |          |          |
|         | 2-6  | "          |            |          |          |
|         | 2-7  | "          |            |          |          |
|         | 2-8  | "          |            |          |          |
|         | 2-9  | "          |            |          |          |
|         | 2-10 | "          |            |          |          |
|         | 2-11 | "          |            |          |          |
|         | 2-12 | "          |            |          |          |
| 3       | 3-1  | December   | 09         |          |          |
|         | 3-2  | "          |            |          |          |
|         | 3-3  | "          |            |          |          |
|         | 3-4  | "          |            |          |          |
|         | 3-5  | "          |            |          |          |
|         | 3-6  | "          |            |          |          |

## Maintenance Manual LS7

| Section | page | issued      | replaced   | replaced | replaced |
|---------|------|-------------|------------|----------|----------|
| 4       | 4-1  | December 09 |            |          |          |
|         | 4-2  | "           |            |          |          |
|         | 4-3  | "           |            |          |          |
|         | 4-4  | "           |            |          |          |
|         | 4-5  | "           |            |          |          |
|         | 4-6  | "           |            |          |          |
|         | 4-7  | "           |            |          |          |
|         | 4-8  | "           |            |          |          |
|         | 4-9  | "           |            |          |          |
|         | 4-10 | "           |            |          |          |
|         | 4-11 | "           |            |          |          |
|         | 4-12 | "           |            |          |          |
|         | 4-13 | "           |            |          |          |
|         | 4-14 | "           |            |          |          |
| 5       | 5-1  | December 09 |            |          |          |
|         | 5-2  | "           |            |          |          |
|         | 5-3  | "           |            |          |          |
|         | 5-4  | "           |            |          |          |
| 6       | 6-1  | December 09 |            |          |          |
| 7       | 7-1  | December 09 |            |          |          |
|         | 7-2  | "           | January 15 |          |          |
|         | 7-3  | "           | January 15 |          |          |
|         | 7-4  | "           |            |          |          |
| 8       | 8-1  | December 09 |            |          |          |
|         | 8-2  | "           |            |          |          |
|         | 8-3  | "           |            |          |          |
| 9       | 9-1  | December 09 |            |          |          |
|         | 9-2  | "           |            |          |          |
|         | 9-3  | "           |            |          |          |
|         | 9-4  | "           |            |          |          |
| 10      | 10-1 | December 09 |            |          |          |
|         | 10-2 | "           |            |          |          |
|         | 10-3 | "           |            |          |          |

# Maintenance Manual LS7

LS7 Placards and markings cont.

For positions of placards see Flight Manual page 7-2.

Airspeed Indicator placards, refer to page 2-1 for speeds and page 2-6 for positioning diagram

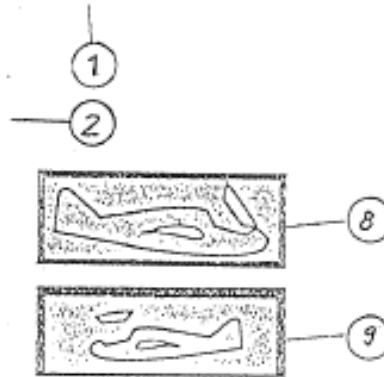
VNE up to 10500 ft  
VNE up to 9000 ft  
VNE up to 19700 ft  
VNE up to 32000 ft

## Minimum Cockpit Load kg

### LS7 CHECKLIST

This sailplane must be operated in compliance with operating limitations as stated in the form of markings, placards and Flight Manual.

1. Main pins secured ?
2. Horizontal tail secured ?
3. Test controls
4. Check loading conditions
5. Fasten seat belt harness
6. Connect parachute static line
7. Lock airbrakes
8. Trim neutral
9. Check release
10. Check tail dolly removed
11. Lock canopy



Max. Flying Altitude 20000 ft Near altimeter, w/range is 20000 ft

Type placard at main bulkhead

Rolladen Schneider Flugzeugbau GmbH  
Type LS7  
Serial No. \_\_\_\_\_ Made in West Germany  
FAA TC \_\_\_\_\_  
Reg.No. \_\_\_\_\_

Use vertical tail fin battery only with main fuse at battery

(under battery box cover of vertical tail, if fitted)

When using a battery in the vertical tail fin, Minimum Cockpit Load must be redetermined by weighing

(under battery box cover of vertical tail, if fitted)

Ball of bearing must be cemented!

at forward horizontal tail attachment on vertical tail fin

Maximum Baggage Weight 5kg or 11lbs (Soft items only)

Baggage Compartment Placard

Tyre Pressure 3-3.5 bar (43-50psi) On left main wheel door

Tyre Pressure 2.5-3.5 bar (36-50psi) Near tailwheel, if fitted

Batt. II  
OFF  
Batt. I

ON

Electrical switch positions

**Tyre Pressure 6,2 bar/90 psi** above tailwheel small tailwheel according to TN 7017, if installed

# Maintenance Manual LS7

## 7.2 LS7-WL Placards and markings

For positions of placards see Flight Manual page 7-2.

**LS7-WL CHECKLIST**

This sailplane must be operated in compliance with operating limitations as stated in the form of markings, placards and Flight Manual.

1. Main pins secured ?
2. Horizontal tail secured ?
3. Wingtips secured ?
4. Test controls
5. Check loading conditions
6. Fasten seat belt harness
7. Connect parachute static line
8. Lock airbrakes
9. Trim neutral
10. Check release
11. Check tail dolly removed
13. Lock canopy

>1< at underside of instrument panel

|   |     |     |
|---|-----|-----|
| <b>MINIMUM COCKPIT LOAD</b>   | kg/ | lbs |
| For use of lower Minimum Cockpit Load see Flight Manual pages 2-6 and 6-2 |     |     |

under instrument panel cover >2<

Rolladen-Schneider Flugzeugbau GmbH

Type: LS7-WL      Serial Number: xxxx

**DATA PLACARD**

| Airspeed Limits (IAS)   | km/h | MPH | kts |
|-------------------------|------|-----|-----|
| Winch launch / Auto tow | 140  | 87  | 76  |
| Aero Tow                | 190  | 118 | 103 |
| In Rough Air            | 190  | 118 | 103 |
| Never Exceed (VNE)      | 270  | 168 | 146 |

Maximum Weight 486 kg (1071 lbs)  
including Water Ballast  
Aerobatic manoeuvres not approved

---

**WEIGHT LIMITATIONS**

|                             |     |      |
|-----------------------------|-----|------|
| Maximum Cockpit Load        | kg. | lbs. |
| <u>Minimum Cockpit Load</u> | kg. | lbs. |

For lower Minimum Cockpit Loads see Flight Manual pages 2-6 and 6-2

**Battery in fin / Baggage Compartment**  
Lighter Pilots must compensate lack of weight as suggested in Flight Manual

on right side of cockpit

>3<

|                                      |                               |
|--------------------------------------|-------------------------------|
| <b>Tyre Pressure</b><br>3 to 3.5 bar | on right<br>landing gear door |
|--------------------------------------|-------------------------------|

|                                       |                                |
|---------------------------------------|--------------------------------|
| <b>Tyre Pressure</b><br>2.5 - 3.5 bar | above tail wheel,<br>if fitted |
|---------------------------------------|--------------------------------|

|  |   |
|--|---|
| <b>Tyre Pressure</b><br>6,2 bar/90 psi | above tailwheel<br>small tailwheel according to TN 7017, if installed |
|--|---|

|  |
|--|
| <b>Maximum Baggage Weight</b> 5 kg/11 lbs<br>(Soft items only) |
|--|

at main bulkhead

|   |  |
|---|--|
| <b>Ball of bearing</b><br>must be fixed | at forward horizontal<br>tail attachment on<br>vertical tail fin |
|---|--|

|  |        |
|--|--------|
| <b>ROLLADEN-SCHNEIDER FLUGZEUGBAU GMBH</b> |        |
| TYPE                                       | LS7-WL |
| TCDS No.                                   | .      |
| Serial Number                              | 7xxx   |
| Registration                               | .      |

Type Placard at main bulkhead

|          |
|----------|
| Batt. I  |
| Batt. II |
| OFF      |

Electrical switch positions