



Maintenance Manual Supplement

KL1 Position Light Set for Night Flights

The technical content of this document is approved under the authority of DOA, number EASA.21J.277

A full description of the system and operating procedures is provided in the Kubicek Flight Manual Supplement for use with the hot air balloon, document no. B.2102-NF.

This balloon is to be maintained in an airworthy condition in compliance with instructions and limitations contained herein.

0.1 RECORD OF REVISIONS

Any revision of the present Supplement, must be recorded in the following table. The new or amended text in the revised page will be indicated by a black vertical line in the margin, and the Revision No. and the date will be shown on the bottom of the page.

All changes to this Maintenance Manual Supplement which were made before the date of the issue stated on the title page have been incorporated into this Manual.

Revision Number	Affected Section	Affected Pages	Date of Issue
1	0 6	NF-2 NF-4	12 Oct 2015

0.3 LIST OF EFFECTIVE PAGES

Section	Page	Date of Issue
0	NF-2	12 Oct 2015
1	NF-3	02 Apr 2013
2	NF-3	02 Apr 2013
3	NF-3	02 Apr 2013
4	NF-3	02 Apr 2013
5	NF-3	02 Apr 2013
6	NF-3	12 Oct 2015
7	NF-3	02 Apr 2013
8	NF-4	02 Apr 2013
9	NF-4	02 Apr 2013
10	NF-4	02 Apr 2013

SECTION 1 - GENERAL

1.1 INTRODUCTION

This Supplement to the Maintenance Manual provides information and limitations applicable for KL1 set of position lights for night flights. The arrangement and numbering of sections in this Supplement is the same as in the Maintenance Manual. If any section is influenced, only the different or additional information is stated in this Supplement, all other remain without any change.

SECTION 2 - AIRWORTHINESS LIMITATION

No change

SECTION 3 - ENVELOPE REPAIR AND MAINTENANCE

No change

SECTION 4 - BASKET REPAIR AND MAINTENANCE

No change

SECTION 5 - BURNER REPAIR AND MAINTENANCE

No change

SECTION 6 - INSTRUMENTS REPAIR AND MAINTENANCE

No change

SECTION 7 - INSPECTION SCHEDULE

7.21 KL1 SET OF POSITION LIGHTS

7.21.1 Inspection Checklist

1	Storage bag. Check condition of the fabric, seams and attachment lugs. Check a spare 8A fuse is present.	
2	Connectors, both male and female part. Check condition and absence and corrosion.	
3	Electric cables. Check for wear and cracks along entire length.	
4	Red light. Check condition of plastic base and lens, attachment to electric cable.	
5	Functional check. Verify the light flashes after plugging the connectors.	

SECTION 8 - APPENDICES

No change

SECTION 9 - SUPPLEMENTS

No change

SECTION 10 - REPAIRS AND MAINTENANCE OF POSITION LIGHTS

10.1 ACCUMULATOR REPLACEMENT (A)

A	B	C	D
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Remove accumulator top cover, unscrew both cable eyes and install them to the new accumulator. Wipow accumulator model no. LP 10-12 is to be used. Pay attention to correct polarity and prevention of short circuit.

10.2 FUSE REPLACEMENT (A)

A	B	C	D
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The fuse is located in the male connector - unscrew the connector top, remove the fuse and replace with a new one which is contained in the position light storage bag.

10.3 RED LIGHT UNIT REPLACEMENT (B)

	B	C	D
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The red light unit contains no replaceable parts. When broken it needs to be replaced.

1. Carefully remove the lens - turn counter-clockwise (view from lens side) to unlock the bayonet joint. Remove the lens, pay attention not to damage electric parts in the light base
2. Unscrew black cable ends, remove the cable from the terminal, clip the cable tie and pull out from the light base.
3. Remove the insulation tape from the joint of electric cable and light suspension cord, carefully clip both cable ties and free the light suspension cord.
4. Take a new light, dismantle it and prepare a piece of cord with heat-sealed ends.
5. Make a light suspension as a copy of the original one - push the cord ends through the appropriate holes in the light base, make a knot at each end, pull to stabilize the knots and seal the holes with a silicone.
6. Wrap the cable end with a tape and push through a rubber sleeve in the light base. Remove the tape and connect cable ends to the terminal and secure. Adjust a proper cable length inside the light so that there is no tension to the terminal and fix the cable with a cable tie just close to the rubber seal.
7. Assemble the light unit.
8. Attach the cord to the cable in the same place with one cable tie, tighten slightly and arrange the correct position of the light - its position must be vertical when hanged on a the cable. When done, tighten the cable well, secure the joint by a second cable tie and trim excessive ends.
9. Wrap the joint of cable and cord with a black insulation tape.
10. Verify the new light work correctly.

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