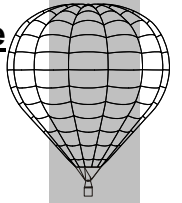


## Supplement 3 – The alternative use of Quick Links for Flying Wire Replacement



### 1.0 Introduction

This supplement defines the maintenance and inspection requirements for the use of quick link fittings when replacing flying wires.

The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

For US operations, only the items listed in 14 CFR Part 43, Appendix A may be accomplished as Preventative Maintenance items.

For U.S. operations, maintenance must be performed in accordance with the requirements of 14 CFR Part 43.3 Persons authorized to Perform Maintenance, Preventative Maintenance, Rebuilding, and Alterations.

**For US operations please refer to Unit Conversion Table (Supplement 10), whenever necessary.**

### 1.1 Applicability

The information contained in this supplement applies to all Ultramagic envelopes

### 1.2 Replacement Parts and Procedures

The use of quick links for replacing envelope flying wires has been defined using carefully selected components. In order to ensure the continued airworthiness of the balloon, it is essential that only parts supplied by Ultramagic or by a supplier approved by Ultramagic be used. The use of parts from any other source is strictly forbidden.

**CAUTION** – When ordering replacement flying wires that are to be fitted by means of quick links, it is important that note is made of this on the order.

Maintenance procedures must be carried out in accordance with the instructions contained in this manual.

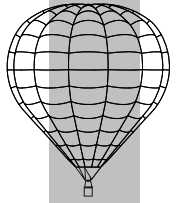
### 1.3 Approved Maintenance and Inspection Personnel

In order to ensure the continued airworthiness of the envelope, the following prescribed maintenance and formal inspection may only be carried out by Ultramagic, organisations approved by Ultramagic or by organisations approved by the national airworthiness authority in the country of registration.

### 1.4 Maintenance Records

Whenever the maintenance work related to flying wires replaced using quick links, is carried out on the envelope, the work must be inspected and approved by a person or organisation approved by the national airworthiness authority in the country of registration. Maintenance work must be recorded by a suitable entry in the equipment maintenance record and must include the following information:

- A description of the work performed.
- The completion date of the work.
- The name of the person (and organisation if applicable) performing the work.
- The name of the inspector approving the work.



## 1.5 Technical Support

If technical assistance is required, contact Ultramagic. Always quote the envelope type and serial number.

For U.S. operations, maintenance must be performed in accordance with the requirements of 14 CFR Part 43.3 Persons authorized to Perform Maintenance, Preventative Maintenance, Rebuilding, and Alterations.

## Section 2

### 2.0 Technical Description

#### 2.1 Flying wire replacement.

Section 2.9 of the maintenance manual defines the method of Flying Wire Replacement. As an alternative to using this method described in 2.9 the following may be carried out.

- Carefully remove the flying wire to be changed using a suitable cutter taking special care not to damage the load tape.
- Inspect the load tape for damage and repair if necessary in accordance with the maintenance manual.
- Attach the prefabricated flying wire using a quick link (Ultramagic part number env c5 – EM-01-0120) through the eye of the wire and load tape loop. The screw gate of the quick link must be fixed in the closed position using Loctite.

## Section 3

### 3.0 Preventative Maintenance

#### 3.1 General

The wire attachment should be subjected to a pilot/owner periodic preventative maintenance check and preventative maintenance measures implemented if necessary. It is recommended that the period between inspections is once every 10 hours operation, whichever is the sooner. The checks must incorporate the areas detailed below.

- Ensure that the Quick Links are kept free from dirt or grit so as to prevent an excessive build up of abrasive material.
- Check that the Quick Link screw gate is securely closed.

## Section 4

### 4.0 Inspection Schedules

#### 4.1 100 hour/Annual Inspection

Maintenance manual section 6.2 and appendix A2 call for the inspection of the flying wires and the load tape attachment point for wear or heat damage. The quick links should also be inspected at this stage for damage or excessive wear as well as tightness of the screw gate.