

The technical content of this document is approved under the authority of DOA ref. EASA.21J.140 GB-Series Gas Balloons (C771 Iss.1)

8.1 GB1000 ENVELOPE WITH SECONDARY DEFLATION CHIMNEY RIP

8.1.1 GENERAL INFORMATION

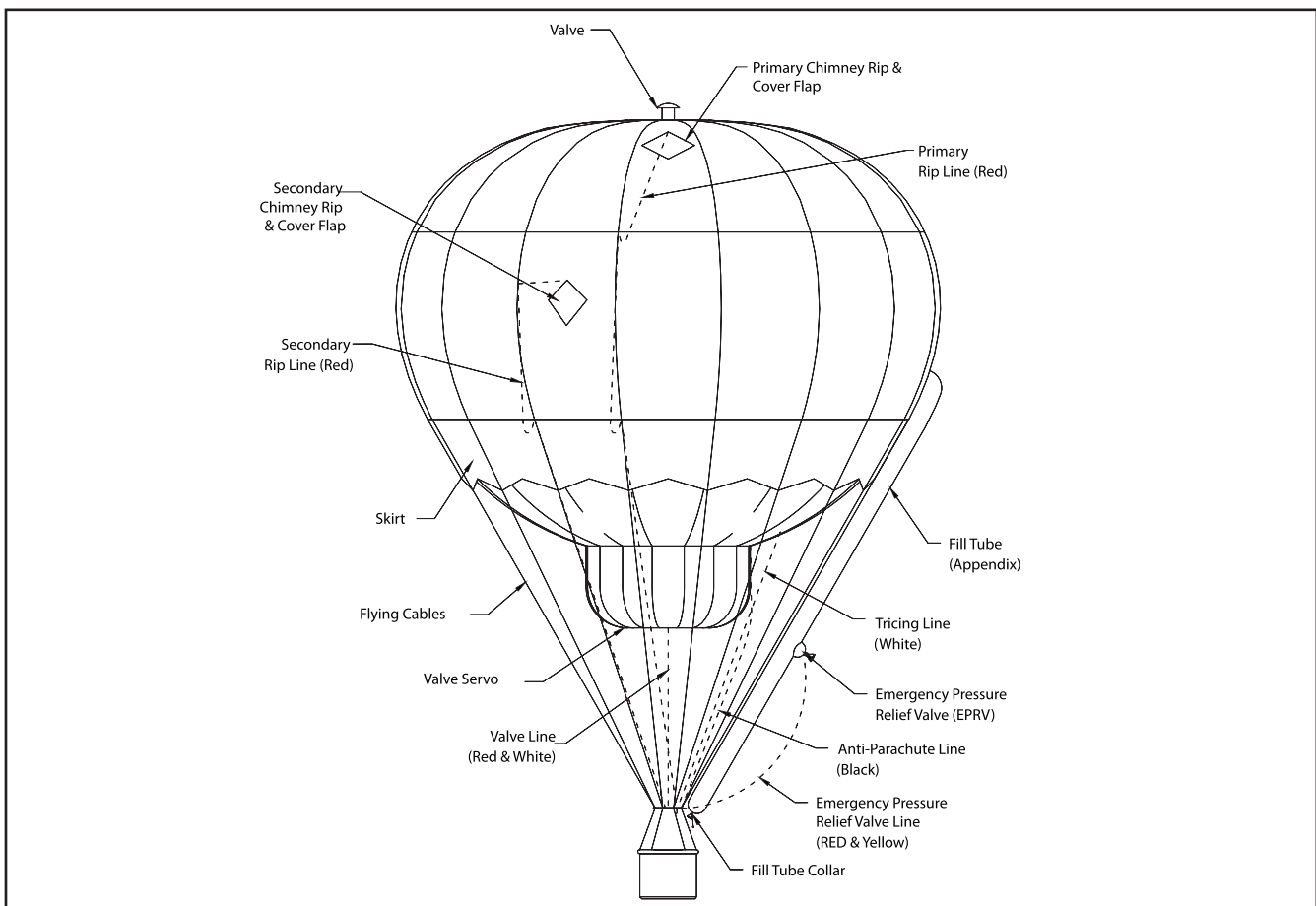
This supplement shall be inserted in the Gas Balloon Flight Manual, in Section 8: ‘Supplements’ with the revisions record sheet amended accordingly.

Information contained herein supplements, or in the case of conflict, supersedes that contained in the basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, consult the basic Gas Balloon Flight Manual.

Issue 1 of this supplement consists of 6 pages. Refer to the Gas Balloon Maintenance Manual Issue 1 to ensure continued airworthiness.

8.1.1.4 DESCRIPTION

A Secondary Deflation Chimney Rip is made optional at customer request. A description of the Secondary Rip is given in Section 6. Figure 1. below illustrates the balloon systems including the additional Secondary Rip positioned near the balloon equator.



▲ Figure 1. GB1000 Description Including Secondary Rip

8.1.2 LIMITATIONS

No Change.

8.1.3 EMERGENCY PROCEDURES

No Change.

8.1.4 NORMAL PROCEDURES

8.1.4.2.5.1 Secondary Rip Panel Installation

The envelope has a Secondary Chimney Rip fitted. The Secondary Rip is identical to the Primary Chimney Rip except that its size is approx. 20% smaller and it is located near the balloon equator.

The Secondary Rip Operation Line is colour coded RED, however, the lower 4 m of the handling line is folded in half (along its width) to differentiate it from the Primary Rip Line (20 mm wide tape).

For detailed Chimney Rip Installation guidance, please refer to Section 4.2.5 in the Gas Balloon Flight Manual. The Secondary Rip Panel is installed in the same way.

8.1.4.7.1 Deflating the Envelope via Secondary Rip

Once the Primary Rip has been operated to commence deflation, the Secondary Rip may then be used. The Secondary Rip avoids a bubble of gas remaining near the equator of the balloon.

8.1.5 WEIGHT CALCULATIONS

No Change.

8.1.6 BALLOON AND SYSTEM DESCRIPTION

8.1.6.2.4.1 Deflation Systems

The balloon is deflated via a Primary and Secondary “Chimney Rip” sealed with a Rip Collar. The Rip-Lines are coloured coded RED at the basket end and both Rip-Lines run down the outside of the envelope.

The Primary and Secondary Rip-Lines are differentiated by their thicknesses. The Primary Rip-Line is a 20 mm wide tubular tape colour-coded RED. The Secondary Rip-Line is a 20 mm wide Tubular Tape folded in half across its width, sewn along its length and also colour-coded RED.

WARNING: Once opened the “Chimney Rip” cannot be resealed in flight.

The Chimney Rip is a fabric tube sewn into the outside of the envelope which is bunched together (Ref: GB Flight Manual - Section 4.2.5) and held closed by a Rip Collar (CB1651) attached to the Rip-Line. When the Rip-Line is pulled the collar is released from around the fabric tube allowing it to open and the gas to escape.

For additional security, a fabric cover secured with Velcro is fitted over the Chimney Rip and is required to be pulled away before the Rip Collar is released.

There are essentially 5 stages of release when activating the Chimney for deflation. Once the decision is made to deflate the Rip-Line is continually pulled and the following stages are completed:

Stage No.	Description
1.	The Velcro Tab is released on the balloon Skirt.
2.	The Velcro Tab is released on the balloon.
3.	Sharp pull to break the thread tie at the top of the Cover.
4.	Continue to peel back the Cover off the balloon.
5.	Sharp pull to break the thread tie on the Rip Collar to open the Chimney.

Note: It is necessary to pull the Rip-Line so that it has detached entirely from the balloon, including the Cover and Rip Collar to ensure deflation.

8.1.6.2.9.1 Envelope Control Lines

A complete listing of envelope control lines and their Colour Codes are given in Appendix 1 of this supplement. This list can be laminated and used in the basket as a quick reference guide.

8.1.7 BALLOON MAINTENANCE, HANDLING AND CARE

No Change

8.1.9 EQUIPMENT LIST

No Change

Intentionally Blank Page

CONTROL LINE COLOUR CODES

NORMAL OPERATION

PRIMARY RIP-LINE:	RED
SECONDARY RIP-LINE: (HALF TAPE WIDTH)	RED
VALVE LINE:	RED-WHITE
TRICING LINE:	WHITE

EMERGENCY OPERATION

EMERGENCY PRESSURE RELIEF VALVE (EPRV):	RED-YELLOW
ANTI-PARACHUTE LINE:	BLACK

Intentionally Blank Page