

Issue 5 of supplement 8.59 is approved
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8.59 STRATUS NEO MINI BURNER

8.59.1 GENERAL INFORMATION

This supplement shall be inserted in the 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 Hot Air Balloon Flight Manual.

Issue 5 of this supplement consists of 4 pages.

Supplement 7.57 to Maintenance Manual Issue 10 is required to ensure continued airworthiness.

8.59.2 LIMITATIONS

8.59.2.4 Minimum Burner Requirements

1. A Stratus Neo Mini Single burner may only be used with envelopes of volumes up to and including 90,000 cu.ft. (2549 m³)
2. A Stratus Neo Mini Double burner may only be used with envelopes of volumes up to and including 140,000 cu.ft. (3965 m³)

8.59.2.4.1 Maximum Demonstrated Altitude

The maximum demonstrated altitude of the Stratus Neo Mini burner is 6097 m (20,000 ft). At this altitude the whisper burner and pilot light system functioned normally.

8.59.3 EMERGENCY PROCEDURES

8.59.3.2.1 Emergency Climb

Single Burners:

Emergency climbs should be made by operating one main burner valve and one whisper burner valve. The main burner valve and whisper burner valve used must be fed from independent fuel supplies.

Double Burners:

Emergency climbs should be made by operating the main burner valve on each burner unit simultaneously and one whisper valve.

8.59.4 NORMAL PROCEDURES

8.59.4.5.6 Flight At Higher Altitudes

At high altitudes the lower air density affects the stability of the burner flame. Long burns of the main burner may cause the base of the flame to lift away from the coil and extinguish. Use of shorter, more frequent burns will help to delay the onset of this effect. At higher altitudes the whisper burner often gives better performance than the main burner, especially if the control valve is opened and closed gently. The use of shorter burns is again recommended.

8.59.5 WEIGHT CALCULATIONS

No change.

Note: If the actual burner weight is not known, a burner weight of 15 kg for the single burner and 18kg for the double burner should be used in calculations.

8.59.6 BALLOON AND SYSTEMS DESCRIPTION

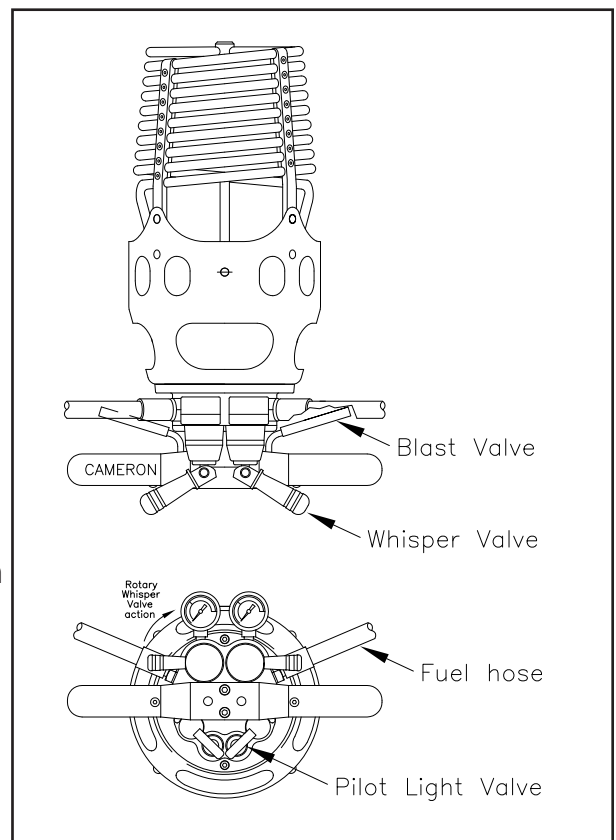
8.59.6.3.20 Stratus Neo Mini Burner

The main burner is fitted with squeeze action blast valves, coloured red, which are operated by squeezing the control lever towards the hand grip. There is a blast valve for each of the two fuel systems. On the single burner outlets are both routed to the single coil assembly.

The pilot light valves are operated by rotary action handles, coloured yellow.

The whisper valves are operated by toggle action handles or optionally by rotary action handles. These controls are blue in colour.

The Stratus Neo Mini burner is fitted with a liquid pilot light. It is fitted with a filter which will require periodic cleaning.



▲ **Stratus Neo Mini Single**

8.59.7 BALLOON MAINTENANCE, HANDLING AND CARE

No change.

8.59.9 EQUIPMENT LIST

Table 8: Burners (additional)

Burner Category	Drawing Number	Burner Description
A	CB4115	Stratus Neo Mini Burner Assembly, Single
B	CB4116	Stratus Neo Mini Burner Assembly, Double

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