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8.40 SHADOW BURNERS USING BUTANE FUEL

8.40.1 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 2 of this supplement consists of two pages.

There are no additional continued airworthiness requirements associated with this supplement.

8.40.2 LIMITATIONS

No change

8.40.3 EMERGENCY PROCEDURES

No change.

8.40.4 NORMAL PROCEDURES

8.40.4.10 FUEL PRESSURISATION

Where Nitrogen is not available, fuel may be pressurised with CO₂, following the same procedure and pressure range.

8.40.5 WEIGHT CALCULATIONS

No change.

8.40.6 BALLOON AND SYSTEMS DESCRIPTION

8.40.6.3.8 SHADOW AND STEALTH BURNERS

8.40.6.3.8.3 Butane Optimisation

Shadow and Stealth burners with liquid feed pilot lights are optimised to operate with LPG mixtures containing a high proportion of Butane by fitting a low friction vaporiser (Mod. C298) and vaporiser heater (Mod. C300). Where burners have been modified a steel label is riveted to each burner can stating "BUTANE".

Note: The minimum fuel pressures must be respected.

Following initial ignition, the pilot flame may be erratic until the vaporiser heater warms up. Where high proportions of Butane are present, the pilot lights should be lit and allowed to burn until the flame stabilises before attempting cold inflation.

Note: Burners optimised for Butane may be operated on propane mixtures

8.40.7 BALLOON MAINTENANCE, HANDLING AND CARE

No change.

8.40.9 EQUIPMENT LIST

Burner Category	Drawing Number	Burner Description
C	CB2255-4	Shadow, Burner Assembly, Triple, Squeeze Action, Butane Optimisation
C	CB2289-4	Shadow/Stealth, Burner Assembly, Triple, Shadow Double /Stealth Single, Squeeze Action, Butane Optimisation
D	CB2256-4	Shadow, Burner Assembly, Quad, Butane Optimisation
D	CB2305-4	Shadow/Stealth, Burner Assembly, Quad, Shadow Double /Stealth Double, Butane Optimisation