Approved by EASA under Approval Number 10038169

8.16 SINGLE AIRCHAIR

8.16.1 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 six pages.

Supplement 7.16 (two pages) to Maintenance Manual Issue 10 is required to ensure continued airworthiness.

The Single Airchair was originally certified as a Thunder & Colt Skychariot MKII (Mod T127) and One Seat Skychariot (Mod. T188) and can be regarded as the same product.

8.16.2 LIMITATIONS

8.16.2.2 WEATHER

1. The balloon must not be flown in surface winds greater than 10 knots.

8.16.2.10 RATES OF CLIMB AND DESCENT

1. The maximum rate of climb and descent for all types when using the Single Airchair is 800 ft/min (4 m/s).

8.16.2.15 BASKETS

6. Balloons equipped with Airchairs must also be equipped with envelope turning vents to allow the airchair to be correctly orientated for landing.

8.16.3 EMERGENCY PROCEDURES

No change.

8.16.4 NORMAL PROCEDURES

8.16.4.3 PREPARATION AND RIGGING

Lay the Single Airchair on its back. Roll out the envelope and connect the flying wires.

The fuel hose(s) run down inside the rod covers and under the seat to the cylinder connection(s). The fuel hose(s) should be routed to ensure that they are protected from damage or burner heat.

The Single Airchair should be restrained during inflation.

Attach the ripline and turning vent lines to the half rings on the burner frame. Ensure that the lines are not tangled or crossed.

8.16.4.4 INFLATION

Hot inflating should be carried out by standing beside the Single Airchair and operating the burner through the side of the frame. Allow the Single Airchair to come up as the envelope rises. The pilot should sit in the Single Airchair as soon as it is upright. Attach the envelope scoop if fitted.

The safety belt should be fastened at all times the pilot is in the seat.

8.16.4.5 TAKE-OFF

Pre-Take-Off Checks (additional)

Fuel	Fuel cylinder firmly strapped to the frame,
Seat Belts	Seat belts fastened.

The Airchair should be rotated, if necessary, using the turning vents so that the pilot is facing the direction he will travel on take-off.

8.16.4.6 CONTROL IN FLIGHT

The size of the envelope makes it responsive to use of the burner and parachute.

The pilot should ensure he is familiar with the behaviour of the turning vents, by operating them during the flight, before attempting a landing.

8.16.4.7 LANDING

Choose the landing field and approach it facing in the direction of travel.

At a height of about 65 feet (20 m) rotate the balloon through 90^0 so that the seat is travelling sideways.

At a height of about 20 feet (6 m) rotate the balloon through a further 90^0 so that the seat is travelling backwards.

Turn off the pilot light(s).

Avoid excessively high rates of descent at the initial ground contact on landing.

On contact the Single Airchair will probably tip over backwards and begin to drag like a sledge.

Pull the ripline fully, until the Single Airchair stops.

8.16.5 WEIGHT CALCULATIONS

No change.

8.16.6 BALLOON AND SYSTEMS DESCRIPTION

The Single Airchair is of tubular stainless steel welded construction. The load is carried from the burner frame with four load wires which are attached to the 'J' shaped frame using quicklinks.
The fuel cylinder sits in the bottom of the 'J' shaped frame and is strapped in place. The fuel system is similar to that of a conventional basket.

The Single Airchair can be equipped with either a Colt C2, Single Stratus or a Single Shadow Mini burner. The burner frame is mounted on four nylon rods, the front two being longer than the rear two. The flying wires are attached to the corners of the burner frame using karabiners.

The seat back is a leather or Cordura covered, padded panel which is attached to the frame with Velcro. The seat base is made of a plywood base padded with foam, with leather or Cordura covering. The seat is fastened to the stainless steel frame. The nylon rods have leather or Cordura padded covers.

The fuel cylinder is a bespoke horizontal 60 litre cylinder with no internal partition, which has either one or two liquid take-offs with quick shut-off valve(s). There is also a fuel gauge for use when the Single Airchair is in the upright position, a fill level and pressure relief valve. The connections may be of either the Rego or the Tema self-sealing type.

The seat belt is either a 4-point harness with a central release or a 2 point lap belt with central release. The harness should be worn at all times.

Helmet and gloves are recommended for the pilot.

8.16.7 BALLOON MAINTENANCE, HANDLING AND CARE

Note: The use - including handling, transportation and filling - of transportable gas cylinders manufactured prior to 2004 could be prohibited by legislation (e.g. ADR, RID, ADN) in many countries unless the cylinder has been reassessed for conformity against accepted design/manufacturing standards (e.g. pi-marked).

The owner/operator of the cylinder is responsible for establishing if compliance is required and ensuring that compliance is maintained. Cameron Balloons Ltd. is unable to provide advice on this matter and local guidance should be sought in the country of operation.

8.1.9 EQUIPMENT LIST

Table 6: Baskets (additional)

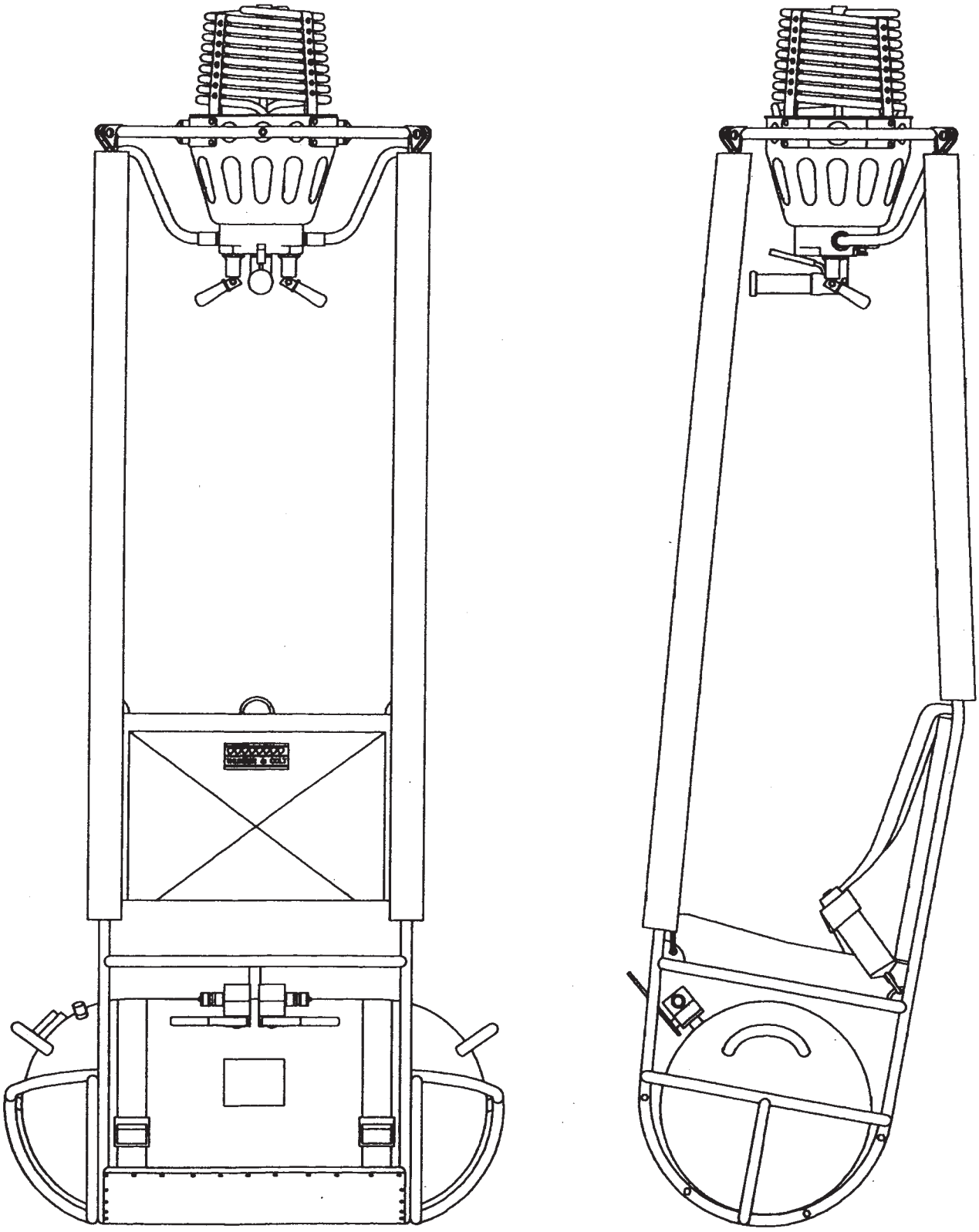
Basket Category	Drawing Number	Basket Description*	Applicable Cylinders	Applicable Burner Frames
A	SC2-002	Skychariot MKII	6	SC102
A	CB8310	Single Airchair	4	CB8814, CB8817

Table 7: Cylinders (additional)

Cylinder Category	Drawing Number	Cylinder Material	Cylinder Description
6	SC-106	STAINLESS STEEL	H30
4	CB8424	STAINLESS STEEL	H30

Table 8: Burners (additional)

Burner Category	Drawing Number	Burner Description
A	SC2-102	Colt C2 for Skychariot
A	CB2233-1	Shadow Mini, Vapour Pilot Light
A	CB2233-2	Shadow Mini, Liquid Pilot Light
A	CB8711	Single Stratus, Liquid Pilot Light
A	CB8713	Single Stratus, Vapour Pilot Light



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