

Chapter 1A

BEAVER A.L. MK.1

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INTRODUCTION

1. The information in this chapter deals primarily with the aircrew equipment assemblies provided for the pilot and co-pilot, but mention is also made of the provisions for a despatcher (when carried as a third crew member) and passengers.

COMPOSITION OF THE ASSEMBLIES

2. Each assembly consists of the following items:-

Pilot and co-pilot

Seat	Static (non ejection type)
Safety harness	Type ZB
Parachute assembly	Back type Mk.4
Personal survival pack	Type S

Despatcher (when third crew member)

Seat	Static (non ejection type)
Safety harness	Lap straps (safety belt) despatcher's harness when despatching freight

Passengers

Seat	Static (non ejection type)
Safety harness	Lap straps (safety belt)

DESCRIPTIONPilot and co-pilot seats

3. These seats are for all practical purposes identical. Each seat incorporates a system of forward and backward adjustment, consisting of bungee cord springs under the seat pan and a locking device operated by a lever which retains the seat in the required position. The operating lever of a 'go-forward' release mechanism is located at the front left-hand side of the seat pan; when operated, this release mechanism enables the occupant to lean forward in the cockpit without disconnecting the safety harness. Each seat incorporates a Type ZB safety harness which restrains forward movement of the body under negative G forces. More detailed information about the seat will be found in A.P.4763A, Vol.1, Book 1; the safety harness is described in A.P.1182B, Vol.1, personal survival pack in A.P.1182C, Vol.1, flying clothing in A.P.1182E, Vol.1 and the parachute assembly in A.P.1182A, Vol.1 (2nd Edn.).

PASSENGER SEATS

4. Unlike the pilot and co-pilot seats, these are in fixed positions and do not incorporate 'go-forward' release mechanisms. They are equipped with seat and back cushions and lap straps (safety belts) to restrain forward movement of the body.

EQUIPPING THE SEATS

5. The following procedure is to be adopted:-

- (1) Pilot and co-pilot seats; refer to fig.1 as necessary:-
 - (a) Arrange the safety harness shoulder straps over the back of the seat and the lap straps over each side of the seat pan. Ensure that the seat is clean.
 - (b) Place the personal survival pack in the seat pan, with the lowering line satchel on the left and the lowering line emerging over the left front corner. Arrange the side quick-release coupling straps over each side of the seat pan.
 - (c) Place the parachute assembly in the seat, with the pack resting against the back and the seat strap on top of the personal survival pack. Arrange the leg and shoulder straps over the sides and back of the seat.
- (2) Passenger seats
 - (a) Arrange the lap straps over the sides of the seat and ensure that back and seat cushions are fitted.
 - (b) If a despatcher is carried as a third crew member and requires a parachute assembly and personal survival pack, proceed as for the pilot and co-pilot seats unless different equipment is to be used.
 - (c) If passengers are to be provided with parachute assemblies and personal survival packs, proceed as in sub-para.(c)
- (3) Stow the despatcher's safety harness in a convenient position near the seat occupied by the despatcher.

STRAPPING-IN PROCEDURE

6. Adopt the following procedure:-

- (1) Pilot and co-pilot; refer to fig.2 as necessary:-
 - (a) Sit in the seat and connect the personal survival pack lowering line to its corresponding fitting on the life jacket.
 - (b) Fit the parachute harness right-hand waistbelt lug into the slot of the right-hand shoulder strap lug. Arrange the shoulder straps to pass OVER the life jacket stole and connect their lugs to the quick-release fitting; ensure that the quick-release fitting is in the locked position and that the left-hand waistbelt strap passes OVER the lowering line of the personal survival pack.
 - (c) Draw up the parachute harness leg straps between the thighs, pass them over the thighs and through the side loops and connect their lugs to the quick-release fitting. Fit the safety pin clip behind the disc knob.
- Note...
- (1) If the shoulder straps of the parachute harness (in particular the left shoulder strap) pass under the life jacket stole, the rip cord handle will be obscured and difficult to operate in an emergency.
 - (2) The routing of the parachute harness straps is illustrated in fig.1.

- (d) Connect the side quick-release couplings of the personal survival pack to the corresponding fittings on the life jacket.
- (e) Adjust and tighten the parachute harness straps, keeping the quick-release fitting as high as possible.
- (f) Fasten and tighten the safety harness lap straps, keeping the quick-release fitting well down in the lap (below the quick-release fitting of the parachute harness).
- (g) Fasten and tighten the safety harness shoulder straps. Do not over-tighten these straps; they are not intended to bear down on the shoulders until the position becomes uncomfortable, but only to restrain the forward movement of the shoulders.
- (h) If not already fitted, put on the flying and protective helmets and throat microphone; tighten the helmet straps.

Note...

It is permissible for the Type H oxygen mask to be worn instead of the throat microphone, pending the availability of other approved equipment.

- (i) Connect the Mic/Tel lead.
- (2) Despatcher
- (a) When the despatcher occupies the co-pilot's seat, proceed as in sub-para. (1).
 - (b) When carried as a third crew member, proceed as for passengers in sub-para. (3).
 - (c) When instructed, undo the safety and parachute harnesses and disconnect the survival pack from the life jacket. Fit the despatcher's safety harness, proceed to the dropping station and anchor the harness to a suitable strong point. After leaving the dropping zone, or when otherwise instructed, discard the safety harness, return to the seat and refit the parachute and safety harness and the personal survival pack attachments, as appropriate to the seat occupied.
- (3) Passengers
- (a) Sit in the seat, draw up the lap straps and fasten them as tightly as possible.
 - (b) If parachute assemblies and personal survival packs are to be used, proceed as in sub-para. (1) or as instructed if other types of equipment are provided.

EMERGENCIES

7. Instructions for dealing with emergencies are contained in A.P.4763A-P.N.

LEAVING THE AIRCRAFT AFTER LANDING

8. The following procedure is to be adopted by all members of the aircrew and passengers, in so far as it is appropriate:-

- (1) Disconnect the Mic/Tel lead.
- (2) Release the safety and parachute harnesses.
- (3) Disconnect the personal survival pack from the life jacket.
- (4) Vacate the seat.

R E S T R I C T E D

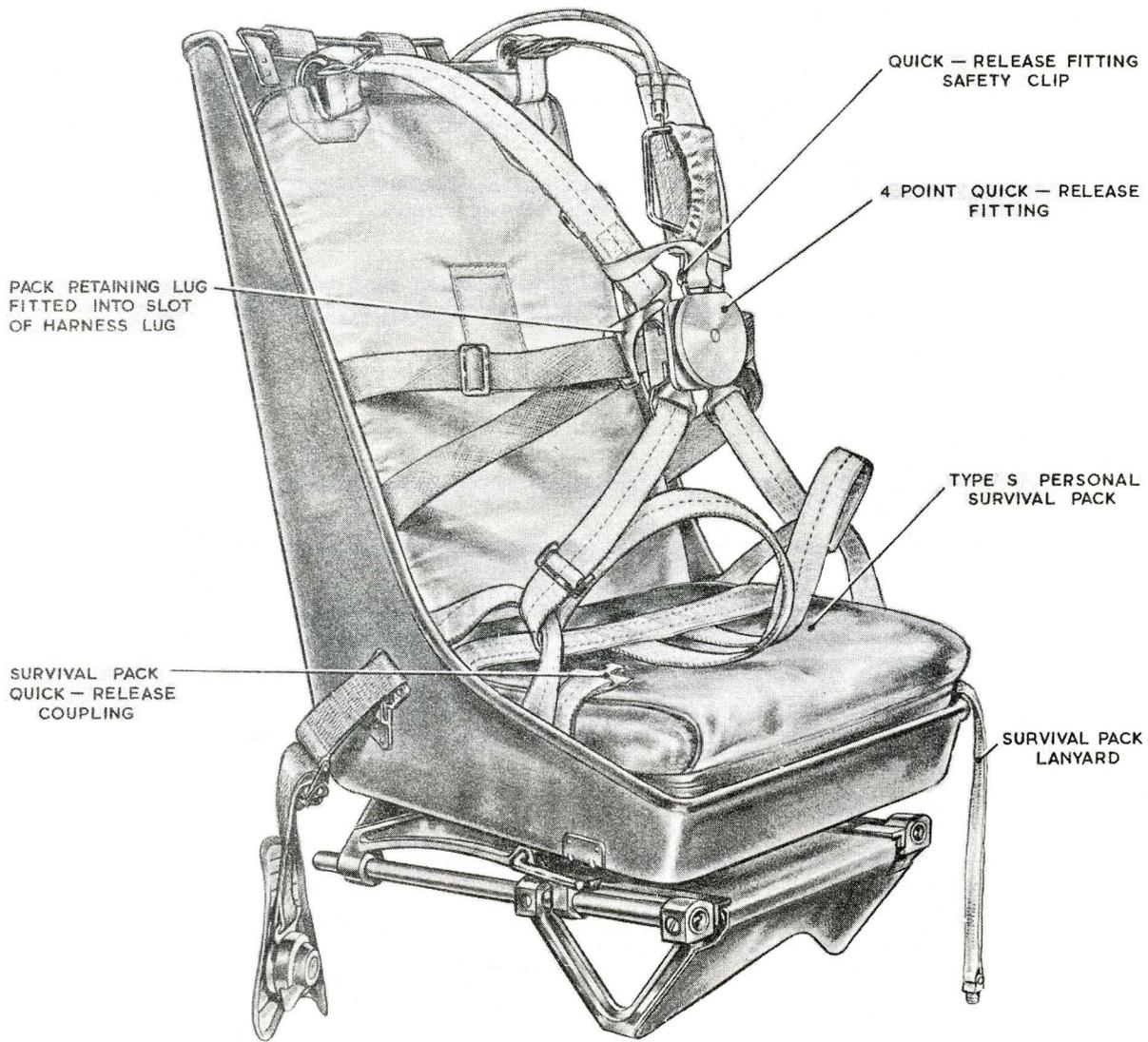


Fig.1. The seat equipped

R E S T R I C T E D

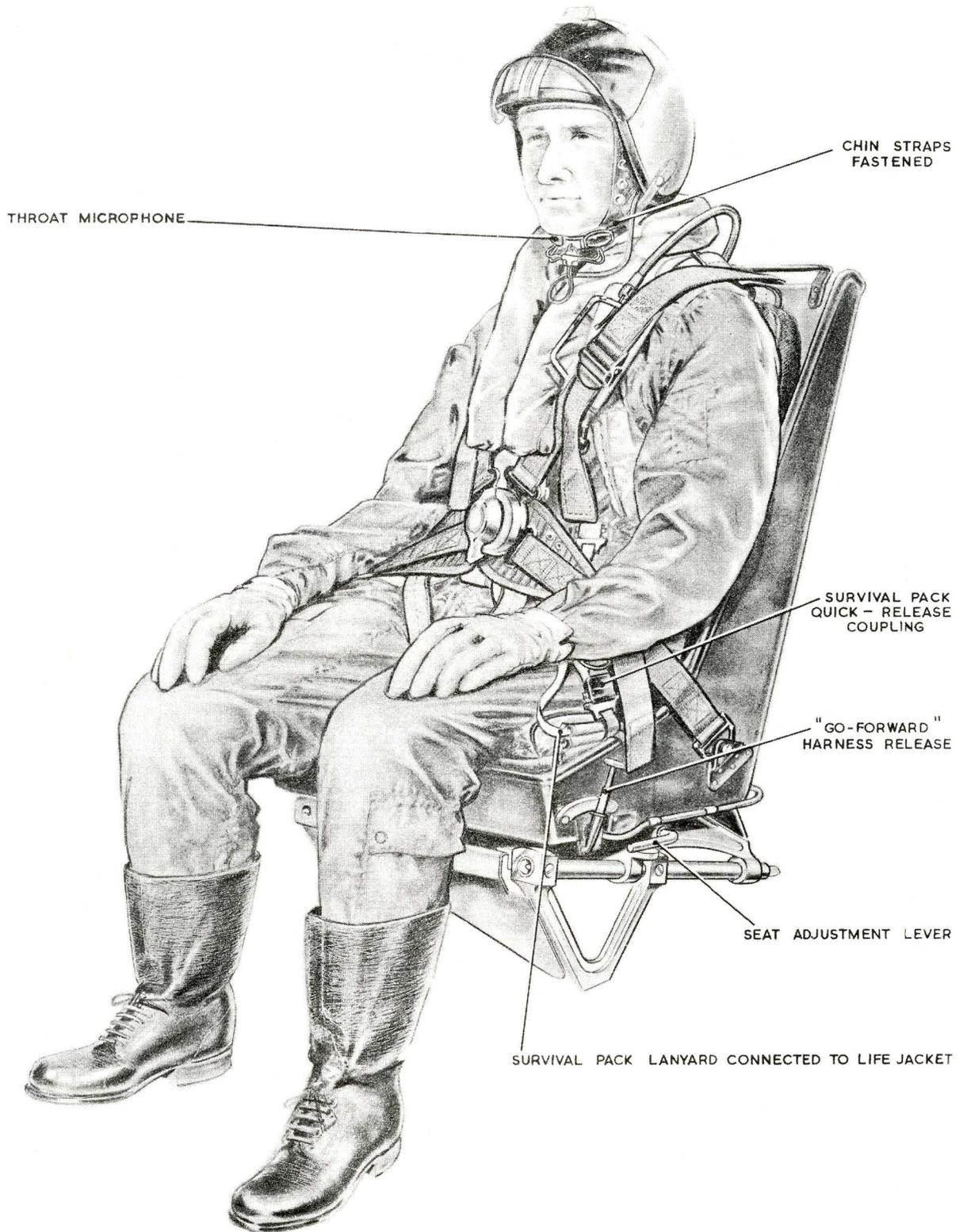


Fig.2. The seat occupied



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