

Chapter 2

METEOR F.8

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COMPOSITION OF THE ASSEMBLY

1. The aircrew equipment assembly for the Meteor F.8 consists of the following items:—

Ejection seat	Mk. 2E
Safety harness	Type ZF
Parachute assembly	Back type, Mk. 13
Personal survival pack	Type J.J.
Emergency oxygen set	Mk. 4
Flying clothing	See Sect. 1, Chap. 1

Mk. 2E ejection seat

2. The Mk. 2E seat is ejected from the aircraft by a cartridge operated gun and slides in a guide rail attached to the airframe structure. It incorporates the Type ZF safety harness, headrest cushion, footrests, parachute pack container and a seat pan which houses the personal survival pack and the emergency oxygen set.

3. The seat pan is equipped with thigh guards which, in conjunction with the footrests, are designed to prevent injury to the pilot due to the

legs being blown apart by the air blast during an ejection at high speed.

4. The seat is adjusted for height by a lever at the right-hand side of the seat pan; the plunger in the end of the lever must be depressed before the seat can be moved. The safety harness 'go-forward' release lever is mounted on the outside of the starboard thigh guard, the lever being raised to disengage the harness lock.

5. As the seat is ejected, all connections to the aircraft are broken and the emergency oxygen cylinder is turned on automatically.

6. Fully automatic facilities are provided to separate the pilot from the seat after ejection and to open the parachute after separation. A manual over-ride control is fitted ◀ to the parachute harness waistbelt ▶ to disconnect the parachute automatic withdrawal device from the seat should the need arise to make (a) a manual bale-out from the aircraft or (b) a manual separation from the seat after ejection.

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7. A full description of the Mk. 2E ejection seat will be found in A.P.4288, Vol. 1.

Connections to the aircraft

8. With the seat installed in the aircraft, the following items are connected to the airframe:—

- (1) *Left-hand side of seat:—*
 - (a) Static rod from drogue gun.
 - (b) Mic/Tel lead.
- (2) *Right-hand side of seat:—*
 - (a) Static line from barostatic time-release unit.
 - (b) Static line from emergency oxygen cylinder operating head.
 - (c) Main oxygen supply hose.

EQUIPPING THE SEAT

9. The following procedure is to be adopted when equipping the seat; reference should be made to fig. 1, 2, 3 and 4 for detail as necessary:—

- (1) Ensure that the safety pin is in position in the sear at the top of the ejection gun.
- (2) Place the safety harness shoulder straps over the top of the parachute pack container and ensure that the lap straps are clear of the seat pan.
- (3) Ensure that the bottom edge of the apron is securely clipped to lower extension of the parachute pack container.
- (4) Tension the apron against its clips and insert the parachute pack into its container ensuring that the bottom edge of the pack is correctly located behind the corner plates of the container. Before pushing the pack fully home, connect the two halves of the parachute withdrawal line coupling. ◀ When installing the parachute assembly in the seat, ensure that the protruding stiff section of the drogue link line is folded towards the starboard side of the parachute container. ▶

- (5) Push the parachute pack fully home into its container and fit the restraining straps into the clips on the sides of the container.
- (6) Arrange the parachute harness to follow the inner contours of the seat pan. Check that the operating head of the emergency oxygen cylinder is to the right of the seat, that both the operating cable and the supply tube pass through the tunnel on the right-hand side of the parachute harness and that they are not kinked. The operating cable must emerge over the rear of the right-hand side of the seat pan and pass OUTSIDE the safety harness 'go-forward' release cable.
- (7) Fit the parachute harness seat sticker straps into the clips on the sides of the seat pan.
- (8) Connect the knurled and screwed union on the emergency oxygen cylinder operating cable to the corresponding union on the anchor section of the static line. Engage the end fitting of the operating cable housing with the anchor socket and connect the anchor hook to the static line-cum-manual operating cable.
- (9) Remove and retain the safety pin from the operating head of the emergency oxygen cylinder and ensure that the "tell-tale" wire is unbroken.
- (10) Place the survival pack on the parachute harness in the seat pan ensuring that the harness back pad is pulled upwards as much as possible. The flap carrying the lanyard must point to the front of the seat, the lanyard being draped over the right-hand front edge of the seat pan.
- (11) Remove the safety pin from the ejection gun sear and place it through the firing handle safety strap.

STRAPPING-IN PROCEDURE

10. When strapping-in, the following procedure should be used; reference should be made to

fig. 4, 5 and 6 for detail as necessary: -

- (1) Remove the safety pin from the firing handle safety strap and place it in the stowage on the left-hand side of the parachute pack container.
- (2) Sit in the seat.
- (3) Connect the survival pack lanyard to the life jacket ensuring that it passes OUTSIDE the right thigh.
- (4) Connect the quick-release couplings at each side of the survival pack to the life jacket.
- (5) Fasten and tighten the parachute harness ensuring that the right leg strap passes OVER the survival pack lanyard and that the shoulder straps pass UNDER the folds of the life jacket stole.
- (6) Fasten and tighten the safety harness lap straps; then connect and tighten the shoulder straps.
- (7) Put on the flying and protective helmets and fasten the chin straps.

Note . . .

If the chin straps are not fastened, the helmets may be wrenched off during ejection; at high altitude, this would result in loss of vital oxygen supply.

- (8) Connect the Mic/Tel lead to the socket on the left shoulder strap of the safety harness.
- (9) Connect the oxygen mask tube to the main oxygen supply hose and adjust the hose to allow full movement of the head; the hose is clipped to the right lap strap of the safety harness.

- (10) Pass the emergency oxygen supply tube under the right shoulder strap of the safety harness and connect it to the oxygen mask tube.
- (11) Connect the oxygen mask tube locating chain to the D-ring on the life jacket.
- (12) Adjust the height of the seat so that the head is correctly located in the centre of the headrest cushion.
- (13) Check that the firing handle can be reached with both hands together; DO NOT DISPLACE THE HANDLE FROM ITS STOWAGE.

EMERGENCIES

11. Instructions for dealing with emergencies are contained in A.P.2210H and J - P.N. ▶

NORMAL EXIT FROM THE SEAT

12. The following procedure should be used when leaving the seat:

- (1) Disconnect the main and emergency oxygen supply from the oxygen mask tube.
- (2) Release the safety harness.
- (3) Release the parachute harness.
- (4) Disconnect the Mic/Tel lead at the left shoulder.
- (5) Disconnect the survival pack lanyard and quick-release couplings from the life jacket.
- (6) Stand up, extract the seat firing handle safety pin from its stowage and fit it through the firing handle safety strap.
- (7) Vacate the aircraft.

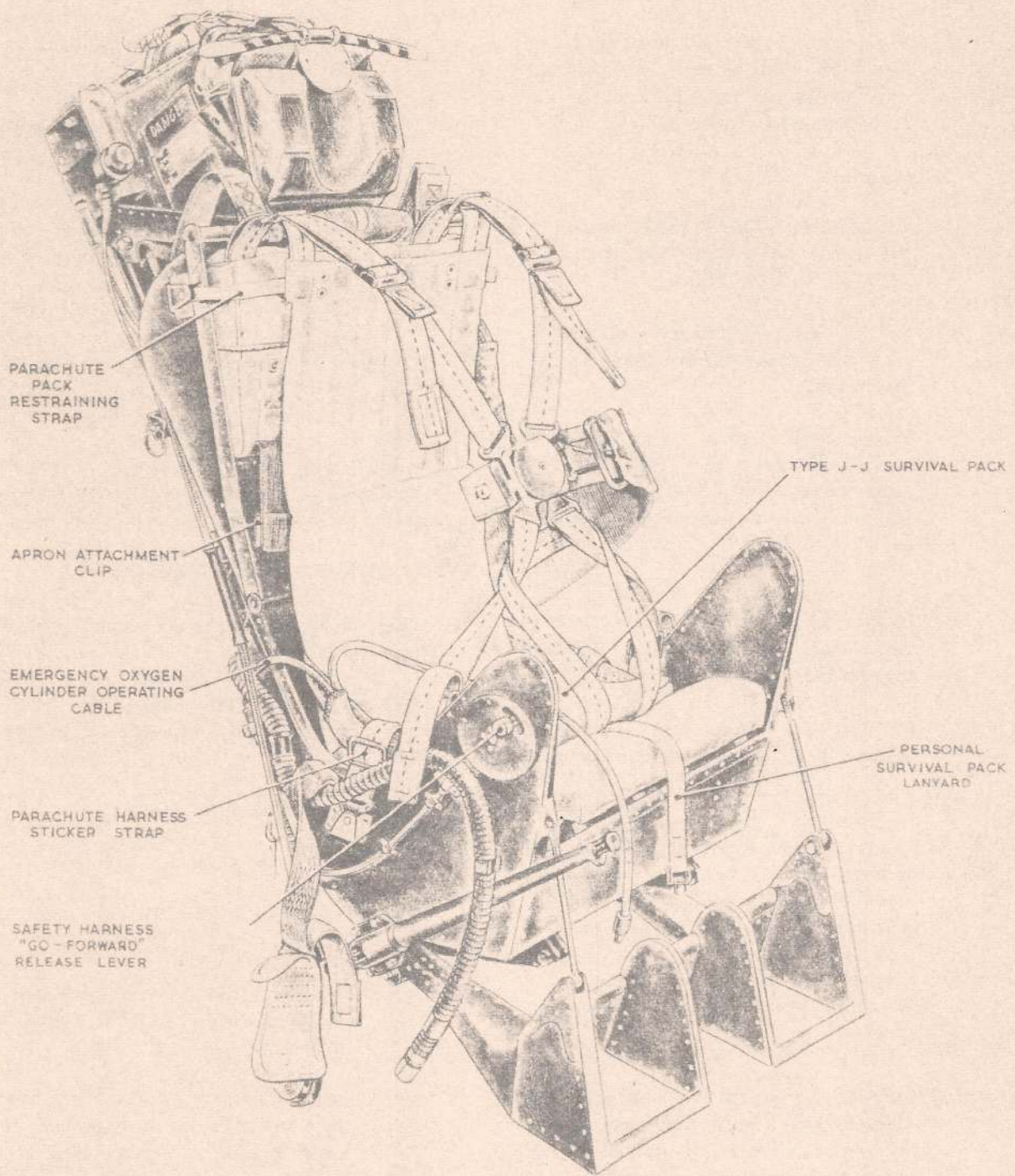


Fig. 1 The seat equipped (1)

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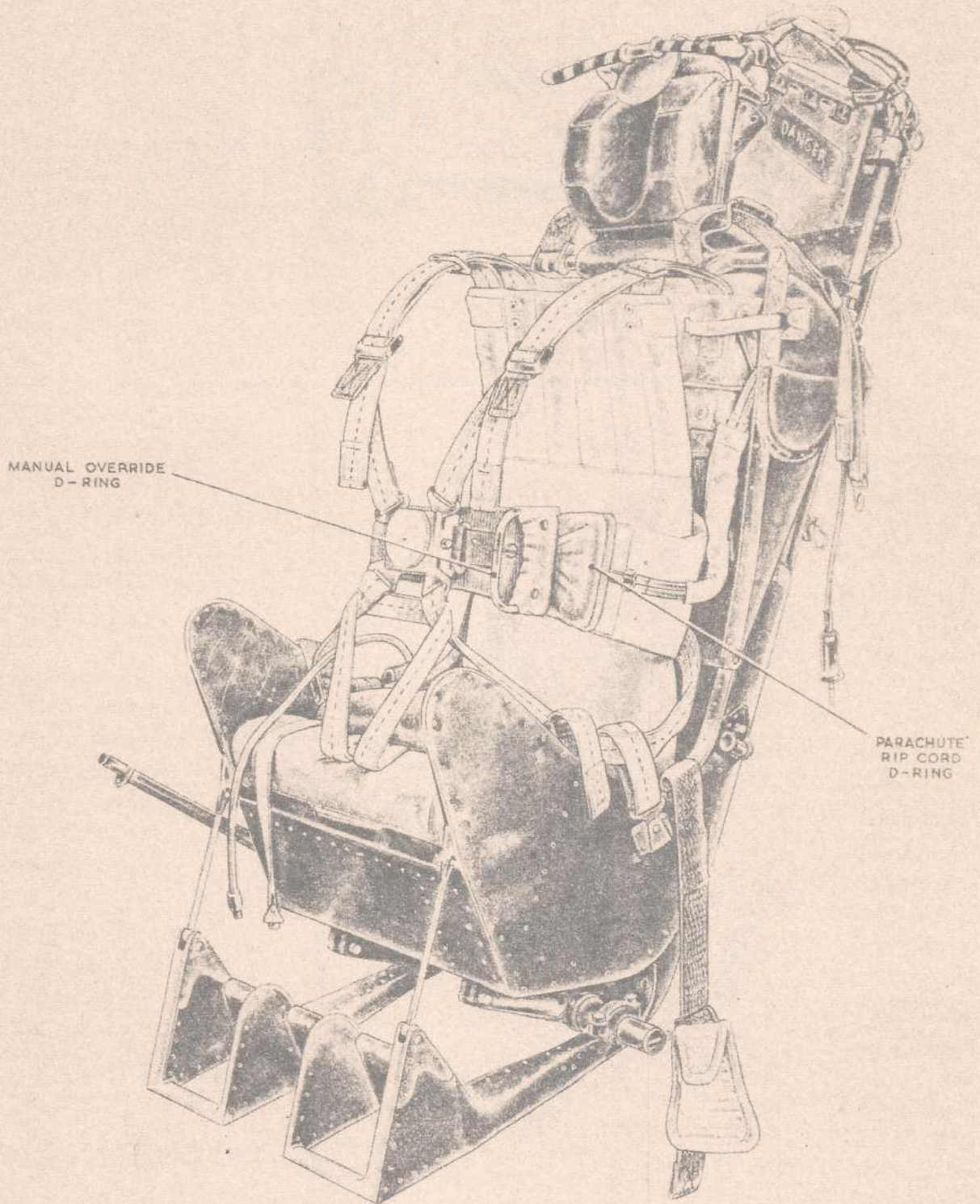


Fig. 2 The seat equipped (2)

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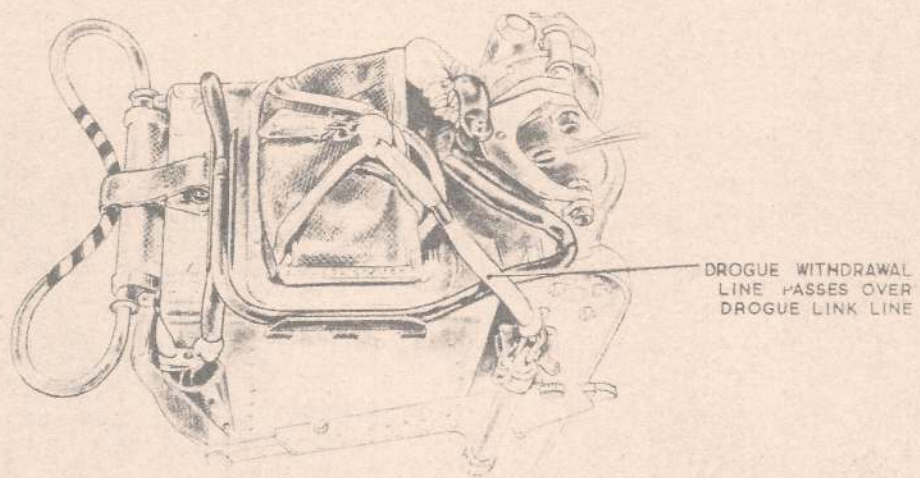


Fig. 3 Arrangement of drogue withdrawal and link lines

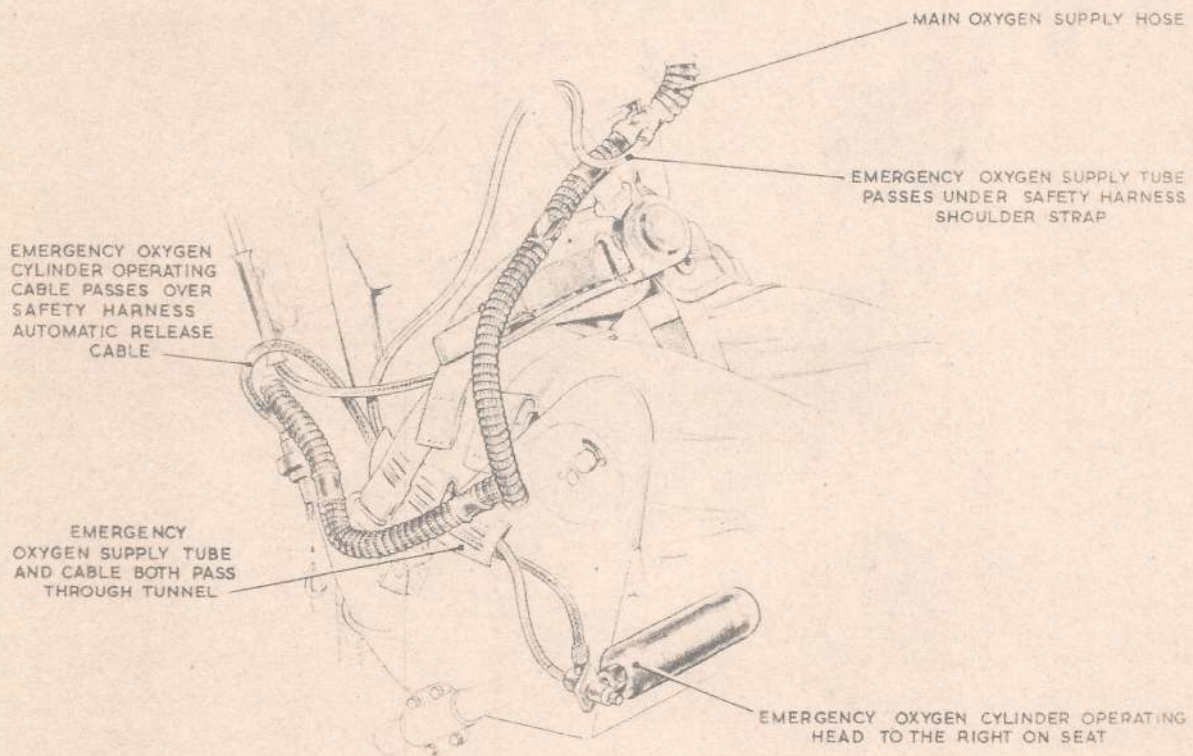


Fig. 4 Arrangement of oxygen supply on seat

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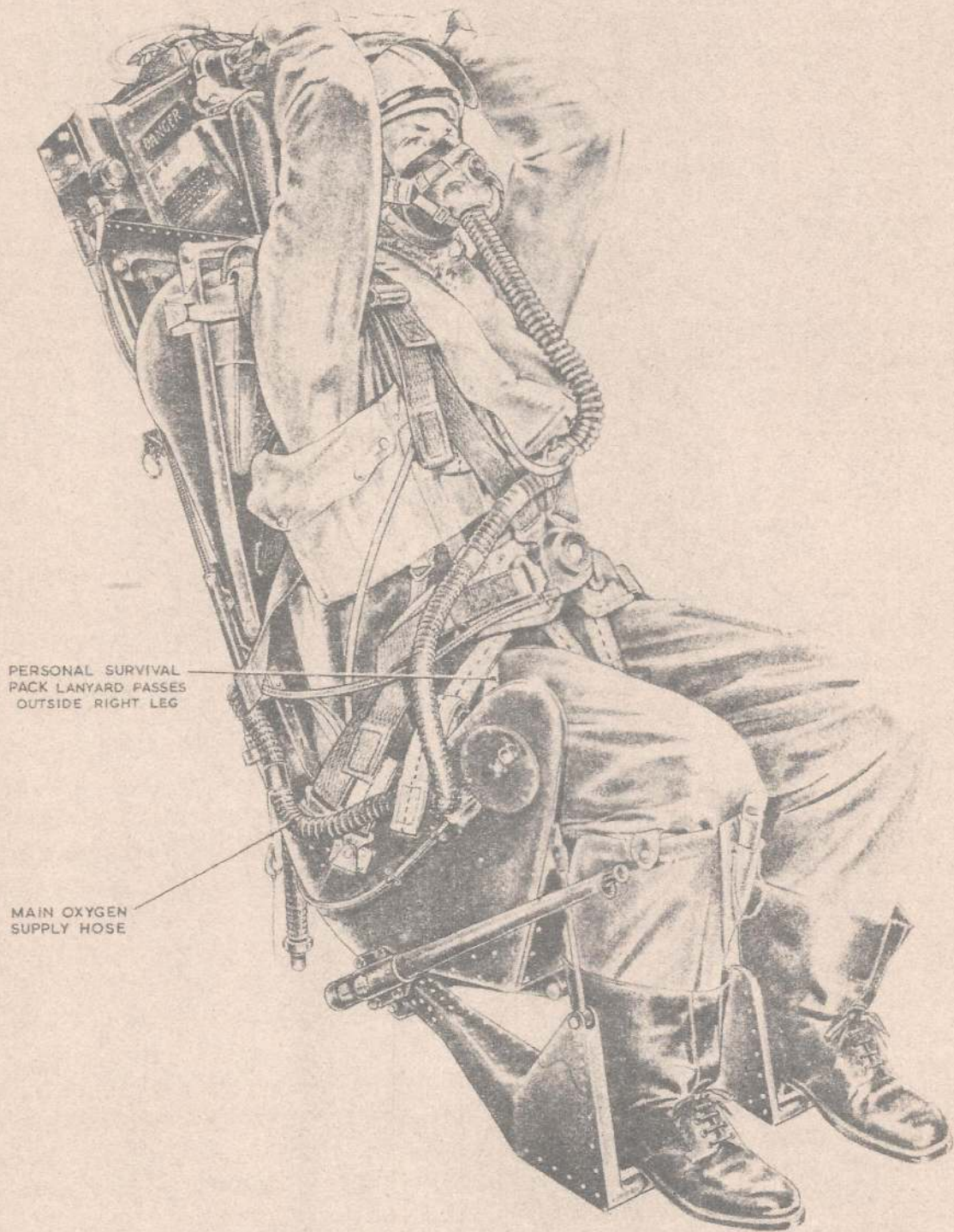


Fig. 5 The seat occupied (1)

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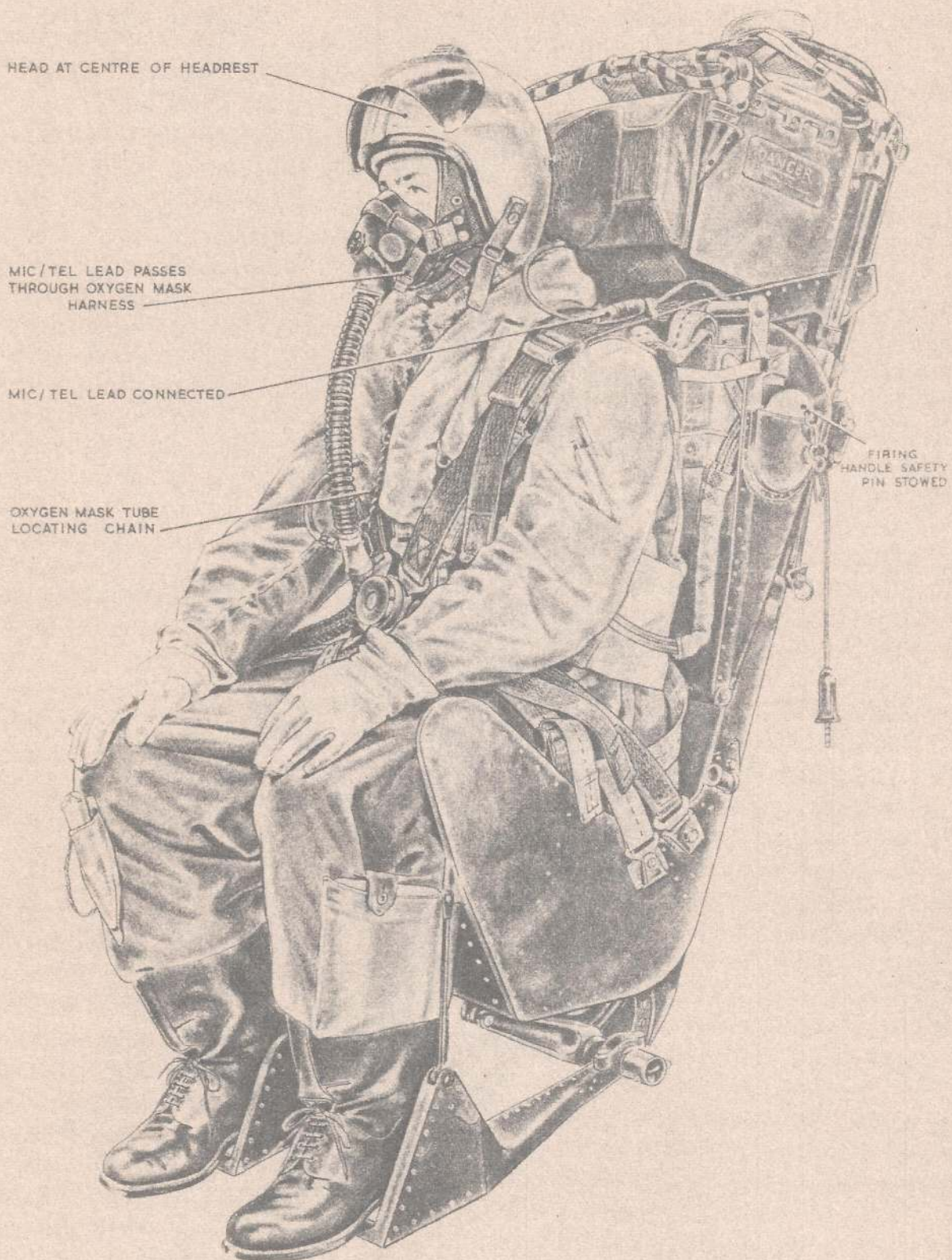


Fig. 6 The seat occupied (2)

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