

SECTION 8

EJECTION SEAT, Mk. 3B
(SEA VAMPIRE T Mk. 22 AIRCRAFT)

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(A.L.17, Dec. 55)

Introduction to Section 8

SAFETY PRECAUTIONS, WARNINGS AND RESPONSIBILITIES

Safety precautions and warnings

1. In no circumstances is any person to enter or to lean over the cockpit of an aircraft fitted with an ejection seat unless the safety strap for the firing handle is in position and secured by the safety pin, or the safety pin is in the hole in the sear of the primary firing unit.
2. The sears of the barostatic time-release and drogue gun time-delay mechanisms do not require to be pulled right through to operate the mechanisms. A slight movement of either sear is sufficient to cause full operation, and great care is to be exercised that they are not disturbed in any way.
3. When the firing units are loaded, the firing handle safety pin is not to be removed until the "Before Flight" inspection has been completed and the pilot is seated and secured in the cockpit before flight. (The only exception to this is when the safety pin is to be inserted in the primary firing unit for servicing). *On the pilot's order only* the safety pin is to be removed and stowed by an (O) or (A) rating or by a Pilot's Mate.
4. Before any work is commenced on the ejection seat, the safety pin is to be removed from the safety strap and inserted in the sear of the primary firing unit. If any work has to be done in the vicinity of the drogue gun, the static line (or rod) quick-release pin must be withdrawn and inserted in the drogue gun safety lock to render the gun safe.
5. No attempt is to be made to remove the seat from the aircraft, or to raise the seat on the guide rail, until the firing units are unloaded.
6. In certain circumstances, there is a possibility of mice damaging the drogue and rigging lines. When seats have been removed from aircraft and stored overnight (or for longer periods) the drogues and rigging lines are to be inspected by safety equipment personnel prior to the seat being installed in the aircraft. As an added precaution, cockpit canopies are to be kept closed whenever possible.
7. The operating cable of the control column automatic breaking device (when fitted) is not to be disturbed during servicing operations. If this

unit is operated, damage will be caused to the handle and the adjacent fittings.

Responsibilities

8. The pilot is responsible for—
 - (1) Ensuring that the firing handle safety pin is removed before flight.
 - (2) Replacing the firing handle strap and safety pin after flight.
9. The Ordnance rating is responsible for—
 - (1) The seat as a whole (with the exception of items enumerated in para. 10 and 11).
 - (2) The ejection gun.
 - (3) The drogue gun.
 - (4) The static lines or rods of the barostatic time-release and drogue gun time-delay mechanisms.
 - (5) Fitting and removing the safety pin in the sear of the primary firing unit.
 - (6) Fitting and removing the quick-release pin in the drogue gun safety lock.
10. The Airframe rating is responsible for—
 - (1) The safety harness and safety harness release mechanisms, the drogue container flaps and securing pin, the external visible parts of the drogue withdrawal line, nylon rope, lifting lines, securing pins, headrest, apron and parachute withdrawal line **WHEN THE SEAT IS INSTALLED IN THE AIRCRAFT.**
 - (2) The seat guide rail and bottom locking latch.
 - (3) Disconnecting and connecting the main and emergency oxygen and anti-G suit connections between the aircraft and the ejection seat on each occasion that the seat is removed or installed in the aircraft.
11. The Safety Equipment rating is responsible for the following items **WHEN THE SEAT IS REMOVED FROM THE AIRCRAFT AND THE EQUIPMENT IS DETACHED FOR ROUTINE SERVICING—**
 - (1) Servicing the safety harness and safety harness release mechanism.
 - (2) Servicing the drogue container flaps and securing pins, drogues, shroud lines, nylon rope, lifting lines, withdrawal lines, quick-release pins, headrest and apron.

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LIST OF CHAPTERS

- 1 Purpose, general description and operating instructions
- 2 Ejection gun and drogue firing gun
- 3 Seat structure and guide rail
- 4 Drogue and apron
- 5 Servicing (~~to be issued later~~)
- 6 Emergency equipment

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