

Chapter 3

(This chapter supersedes that issued with A.L.23)

MISCELLANEOUS SPECIAL TOOLS

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Introduction

1. In addition to the special tools given in the appropriate tables in Chap. 1, a number of additional tools are provisioned for certain ejection seats or

associated escape equipment. Some others again can be obtained to special order only and, for convenience, all miscellaneous tools of this nature will be grouped in this chapter.

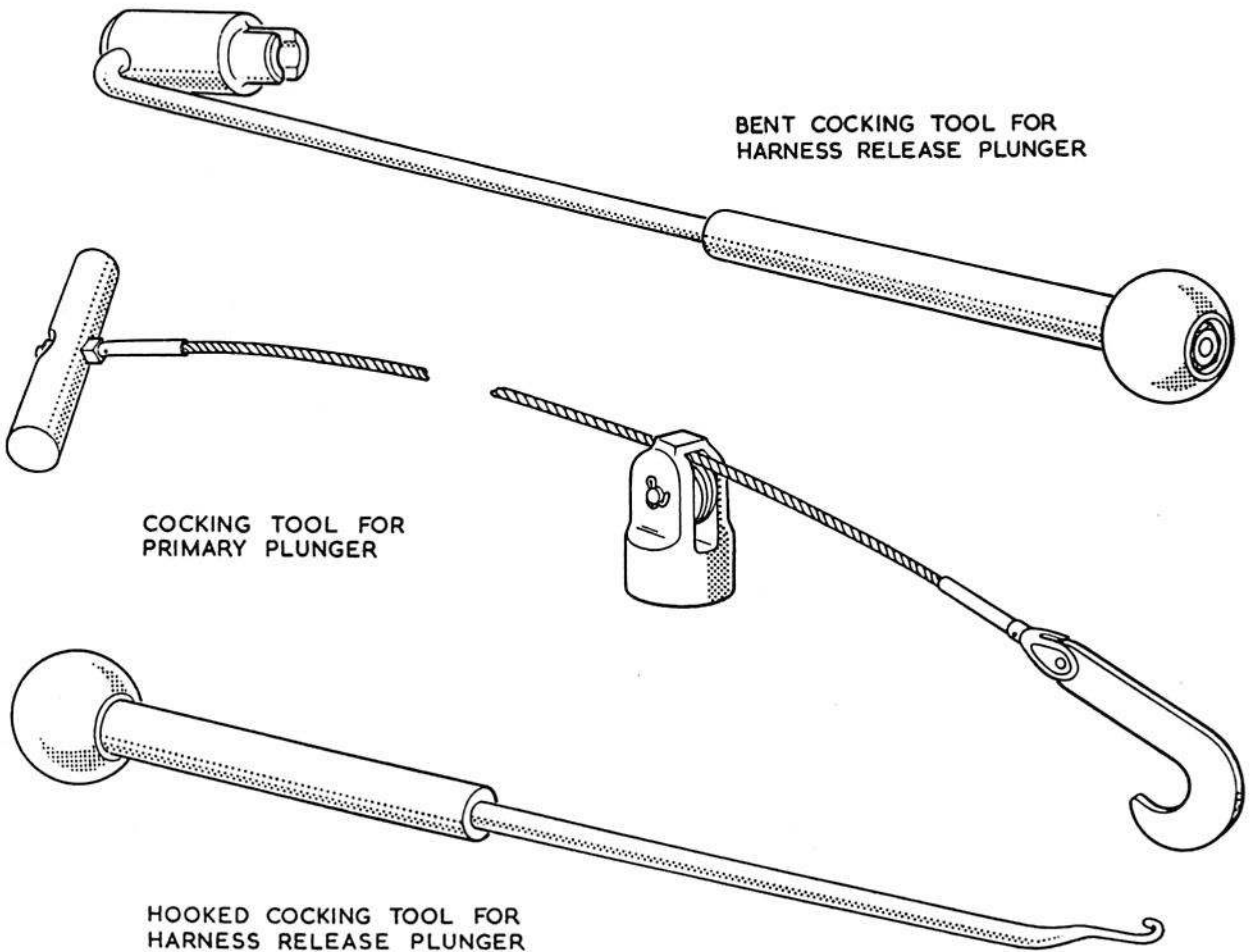


Fig. 1. Special tools (Mk. 3A seat)

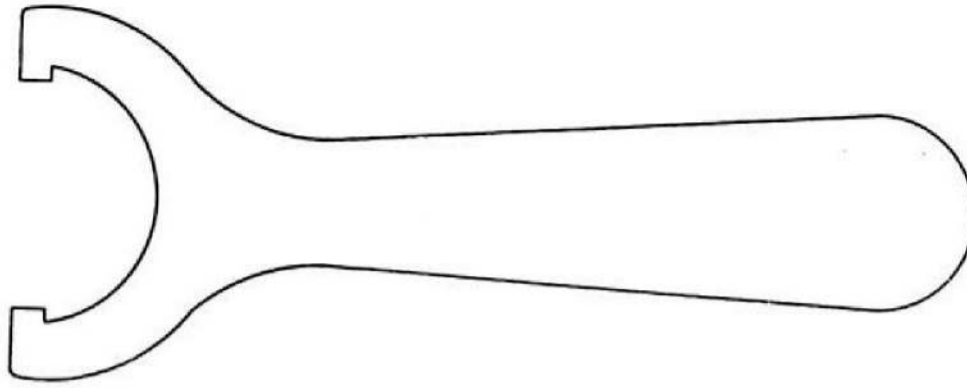


Fig. 2. Spanner for canopy jettison gun (Vulcan aircraft)

Mk. 3A seat (Valiant aircraft)

2. The lack of overhead space in the Valiant aircraft prohibits the use of the normal cocking tools, should it be necessary to re-cock the barostatic time-release unit in situ. In such circumstances the additional tools shown in fig. 1 are required. They are a cocking tool for the primary plunger (Stores Ref. 27L/552), a hooked tool for harness release plunger (Stores Ref. 27L/550) and a bent tool for the same plunger (Stores Ref. 27L/551).

Cocking tool for primary plunger

3. This tool is used by placing the hollow pulley block over the plunger, fitting the hook under the time-release unit casing and pulling on the handle until the plunger locks in position. All the other instructions in respect of re-cocking given in Sect. 6, Chap. 1, para. 4 still apply.

Hooked cocking tool for harness release plunger

4. This item is used to start the downward movement of the plunger by fitting the hooked portion in the plunger slot and pulling almost vertically downwards on the handle.

Bent cocking tool for harness release plunger

5. After about an inch of plunger movement, the bent cocking tool is fitted over the hooked tool and

the operator completes the re-cocking whilst the lever on the harness quick-release fitting is pressed round to the locked position by an assistant.

Canopy jettison gun (Vulcan aircraft)

6. This component, the servicing of which is described in Sect. 7, Chap. 4, incorporates slotted locking caps which necessitate the use of the special C-spanner (Part No. A/X/5405) shown in fig. 2.

Canopy jettison gun (Venom/Vampire aircraft)

7. The special cocking tool (Stores Ref. 26DV/95252) is provided for re-setting the canopy jettison gun firing head and consists of a hollow, dome-shaped seat and a screw with a nut which has an integral tommy bar. The screw is a sliding fit in the head of the seat component and has a screw-driver slot at the outer end and a reduced section with a 2 B.A. thread at the other. The seat is proportioned so that it fits over the spring cap of the firing head (shown dotted in fig. 3).

8. To use the tool, screw the 2 B.A. threaded portion into the firing unit hammer, register the seat on the spring cap and turn down on the nut until the firing lever detent can be engaged.

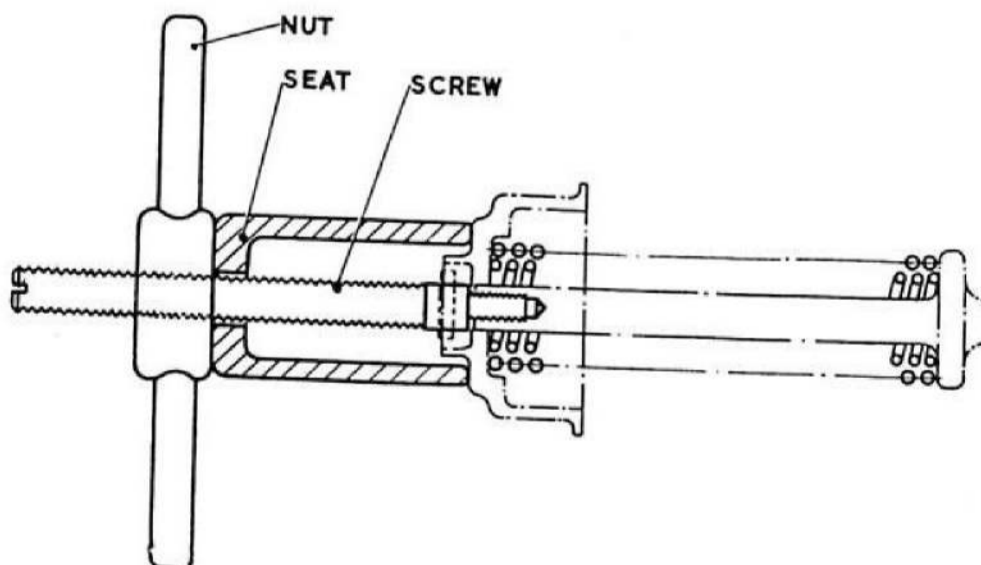


Fig. 3. Cocking tool (Venom/Vampire aircraft)

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