

# Chapter 4 DUPLEX DROGUE ASSEMBLY

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### ILLUSTRATION

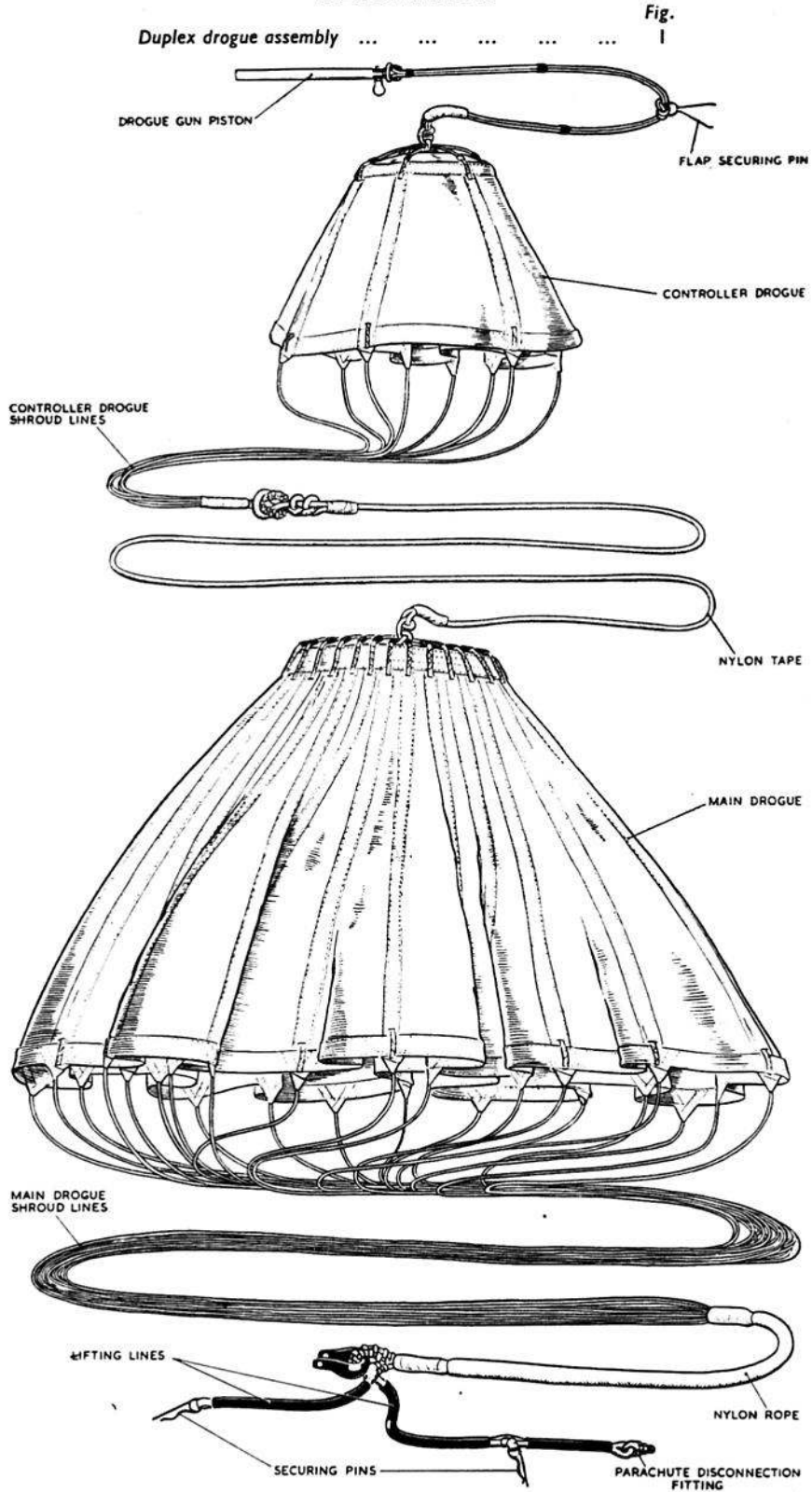


Fig. 1. Duplex drogue assembly

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(A.L.19, Mar. 56)

### Function

1. Two drogues are incorporated and their purpose is first to check the forward speed of the seat and occupant after ejection from the aircraft and secondly to stabilize the seat.

### Description

2. In the developed state the controller drogue (*fig. 1*) has a diameter of 18 in., and the main drogue is 5 ft. in diameter; each has a 6 in. vent. The shroud lines of the controller drogue are united approximately 2 ft. from the periphery of the canopy and are connected to the apex of the main drogue by nylon tape. The shroud lines of the main drogue are united approximately 4 ft. from the periphery of the canopy and are connected by means of the drogue shackle to the scissor shackle at the top of the seat structure. The loop at the end of the main drogue shroud lines includes two lifting lines; both lifting lines incorporate securing pins and the longer line carries also the parachute disconnection fitting.

3. The controller drogue withdrawal line is secured to the apex of the canopy and its free end is attached

to the drogue gun piston by means of a quick-release pin. Part-way along the line is the flap securing pin which retains the four flaps of the drogue container; thus the piston, after being fired by the drogue gun, first draws out the flap securing pin, then extracts the controller drogue from the container. The controller drogue then extracts the main drogue and the two combine to check the forward speed without undue shock. The flap securing pin is prevented from being withdrawn inadvertently by a single loop of No. 8 linen thread (Stores Ref. 15A/108).

4. After the drogues have been released by the barostatic time-release unit, the lifting lines become taut and withdraw the securing pins which in turn free the face screen and lifting lines. The parachute withdrawal line, which is screwed to the disconnection fitting, then draws the Mk. 18A parachute canopy from its pack. Reference should be made to A.P.1182 for details of the parachute withdrawal line and the correct method of assembling.

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