

GROUP D10 WINDSCREEN DE-ICING PUMP (CODE WS)

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Introduction

1. The electrical circuit for the windscreen de-icing pump installed in this aircraft is described in this group, together with the necessary servicing information required to maintain the equipment in an efficient condition. A routing and theoretical diagram of the circuit is also included. A general description of the electrical system as a whole, including system wiring details, referencing of components and general servicing will be found in Group A1 of this chapter. The removal of the major electrical equipment is given in Group A2, and the location, including the means of access to all the components, is indicated in Group A3, also of this chapter. For detailed information on the standard components used, reference should be made to the appropriate volumes of A.P.4343 series.

DESCRIPTION

WINDSCREEN DE-ICING PUMP

2. The Type D1, Mk. 1 electrically-operated self-priming windscreen de-icing pump is bolted to a bracket attached to the port side of the nose fuselage structure between frames 4 and 5. The pump is controlled by an ON/OFF switch situated on the starboard arch panel in the cockpit and, when operating, supplies de-icing fluid from a tank to a spray unit below and forward of the windscreen.

Operation

3. The operation of this circuit should be obvious, once reference is made to the theoretical diagram (*fig. 1*). For a description of the windscreen de-icing system, reference should be made to Sect. 3, Chap. 9.

SERVICING

4. For general servicing of the electrical system as a whole, reference should be made to Group A1 of this chapter. Apart from keeping all the components clean and carrying out the normal routine tests of security

and serviceability, no further servicing should be necessary. For information on the pump, reference should be made to A.P.4343D, Vol. 1, Sect. 10, series.

REMOVAL AND ASSEMBLY

5. Once access has been gained, via the nose wheel bay and cockpit, the procedure for removing and assembling the components forming the windscreen de-icing pump circuit should be obvious. The location of the components is indicated in Group A3 of this chapter.

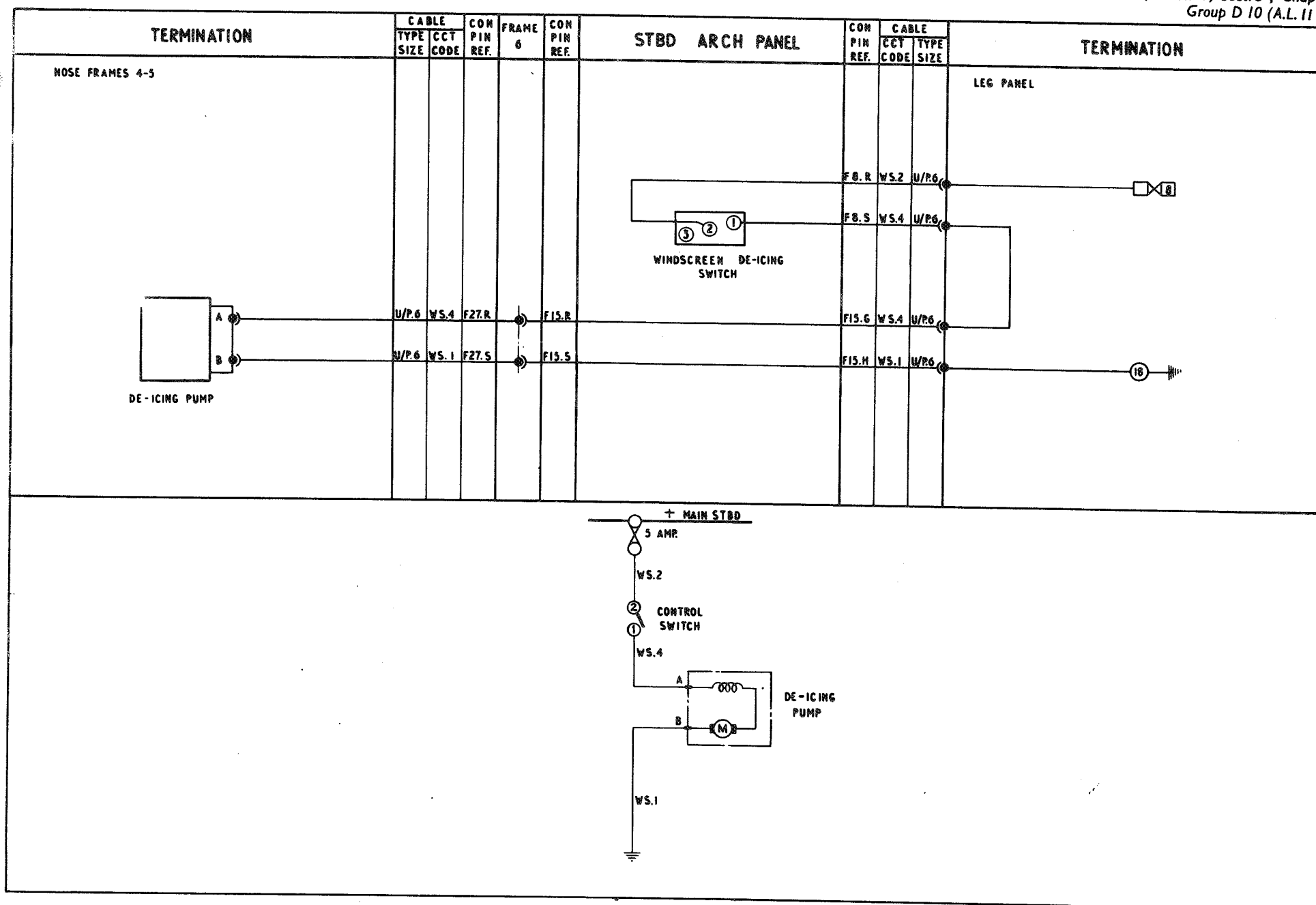


FIG. 1. WINDSCREEN DE-ICING PUMP

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