GROUP F.1 CABIN LIGHTING

(CODE M)

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Equipment employed

1. The major components employed in the cabin lighting circuit are listed below, together with the relevant Air Publications to which reference should be made for a detailed description and the necessary servicing required to maintain them in an efficient condition.

Cabin lamp, Type C. No. 2 Cabin lamp, U.V., Type B. No. 1 Lamp, filament, 24V, 2.8 W. *(red)* Lamp, U.V., filament, 12V, 7.5 W	*A.P.4343E, Vol. 1, Sect. 7*
Dimmer switch, Type R *(22 ohm)* Dimmer switch, Type R *(15 ohm)* Tumbler switch, S.P/C.0 *(standby lights)*	*A.P.4343C, Vol. 1, Book 1, Sect. 1*

DESCRIPTION

Cabin lighting

General

2. The cabin lighting installation consists of four separately controlled circuits supplying lamps to illuminate the instrument panels, and cabin shelves. The following paragraphs describe each of these circuits in turn. Routing and theoretical diagrams of the circuits are given in fig. 1.

Ultra-violet lamps

3. Two ultra-violet lamps, connected in series and controlled by a dimmer switch are positioned one on each side of the cabin, just forward of frame 10 and below the light deflector screens, so that their beams fall on the fluorescent instruments on the instrument panels. The dimmer switch is mounted at the top of a bracket attached to the fuselage skin above the cabin starboard shelf *(just forward of frame 10)*.

Instrument panel red lamps

4. Four red lamps illuminate the instrument panels; they are connected in parallel and positioned two on each side of the cabin,

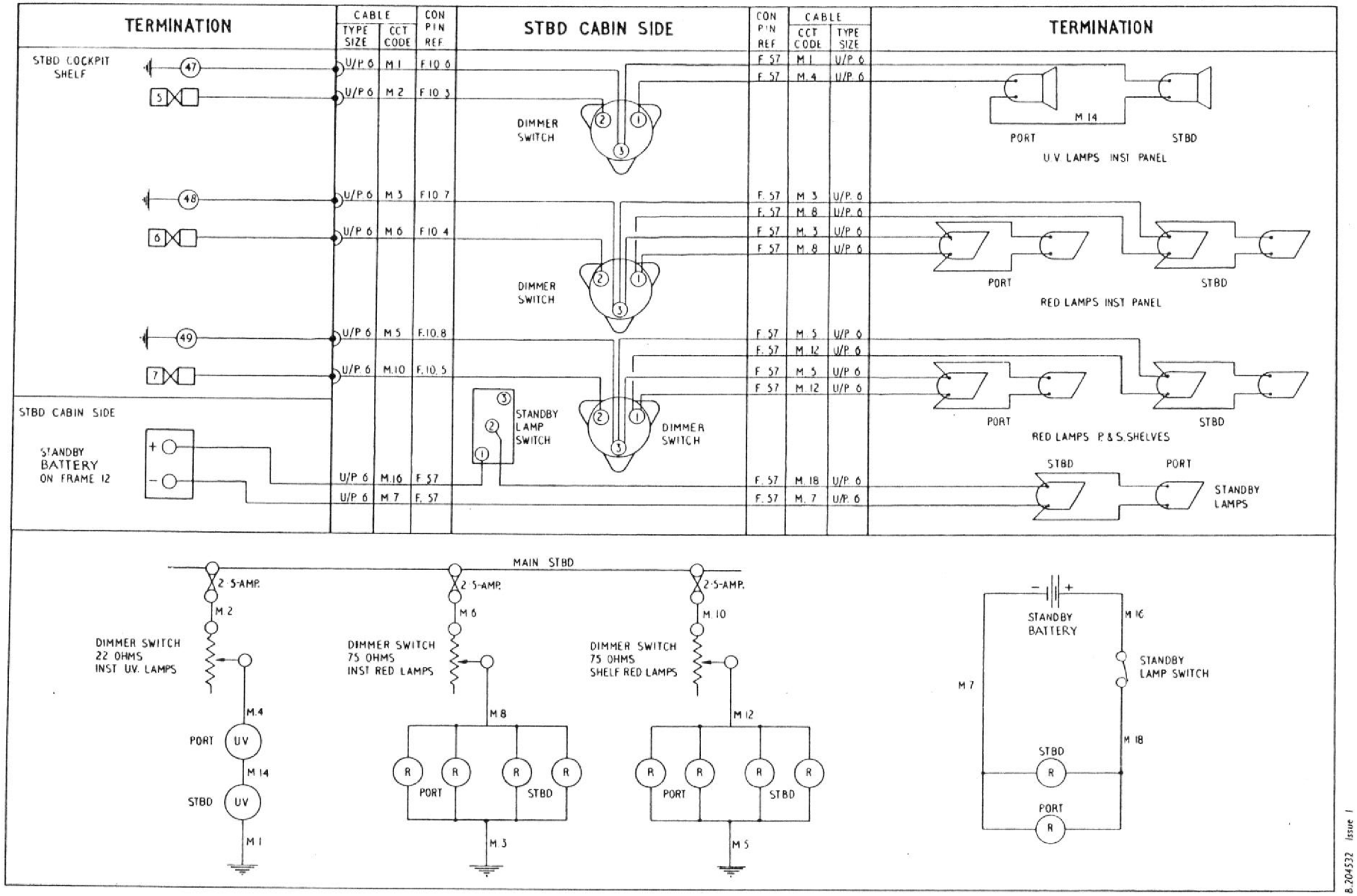

Fig. 1. Cabin lighting (routing and theoretical)

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just forward of the ultra-violet lamps. These lamps are switched on and dimmed, as required, by a dimmer switch mounted below the ultra-violet lamps switch on the starboard side of the cabin.

Cabin shelf red lamps

5. Another four red lamps, also connected in parallel, are located two on each side of the cabin on frames 10 and 11, to illuminate the cabin shelves. These lamps are switched on and dimmed, as required, by a dimmer switch mounted below the instrument panel red lamps switch.

Standby lamps

6. Should the normal cabin lighting fail, two red standby lamps may be brought into operation. These lamps are mounted one on each side of the cabin below the light deflector screens, adjacent to the instrument panel red lamps. The lamps are not connected to the normal electrical system, but obtain their supply from a small 2·4 volt, 1·2 amp battery mounted in the cabin on the starboard side of frame 12. A single-pole ON/OFF switch, located on frame 9 above the cabin starboard shelf and labelled CABIN STANDBY LIGHTS, controls the installation. This switch is provided with a luminous dolly to make it readily distinguishable in darkness.

Operation

7. The operation of the circuits should be obvious once reference is made to the theoretical diagrams, given in fig. 1.

SERVICING

General

8. For general servicing of the electrical system as a whole, reference should be made to Group A.1 which also contains a table giving the types of filament lamps used in this circuit. Apart from keeping all the components clean and checking the filament lamps for serviceability, no further servicing should be necessary.

REMOVAL AND ASSEMBLY

General

9. The removal and assembly of the components forming the cabin lighting circuit should present no difficulties. The location and access to all the components is indicated in Group A.3.

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