

Chapter 6

INTERCOMMUNICATION LAMPS

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LEADING PARTICULARS

<i>Receiver box</i>	Stores Ref. 5CX/780
<i>Incorporating—</i>	
<i>Filament lamp, 28-volt, 3.5-watt,</i>	Stores Ref. 5L/X.95/273
<i>Overall dimensions</i>	3.5 in. × 4 in. × 2 in.

Introduction

1. The intercommunication signalling equipment described in this chapter consists of a number of receiver boxes, one of which is fitted at each crew station of the aircraft.

DESCRIPTION

2. The receiver box is illustrated in fig. 1. It incorporates a clear filament lamp protected by a clear lens on the front of the box, with a normally-open push-switch alongside. The lens is held in a screw-on holder fitted with a rubber sealing ring.

3. The lower portion of the box is a 3-way terminal block with two cable glands moulded into the bottom face. The terminal cover and back cover are removable, and are provided with rubber gaskets to render the joints waterproof. A diagram showing the internal connections is given in fig. 2.

OPERATION

4. A diagram showing the operation of intercommunication call-lamps is given in fig. 3. When, for example, the pilot wishes to call up any member of the crew for telephonic

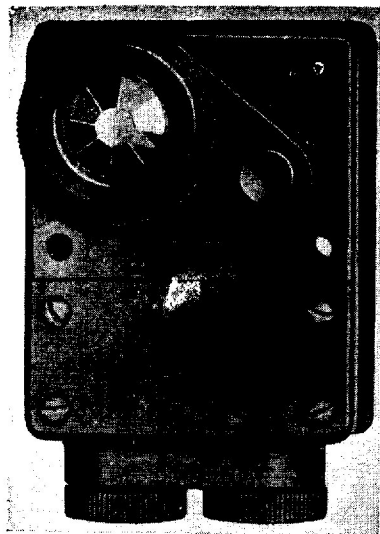


Fig. 1. Receiver box

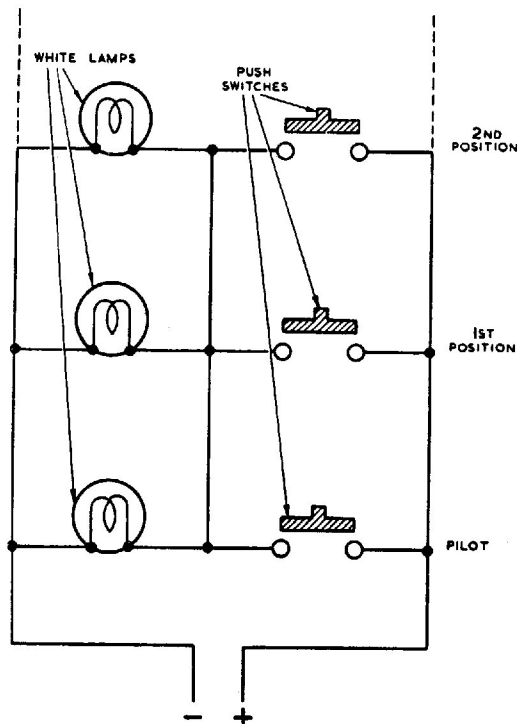


Fig. 3. Diagram showing operation of Inter-communication call-lamps

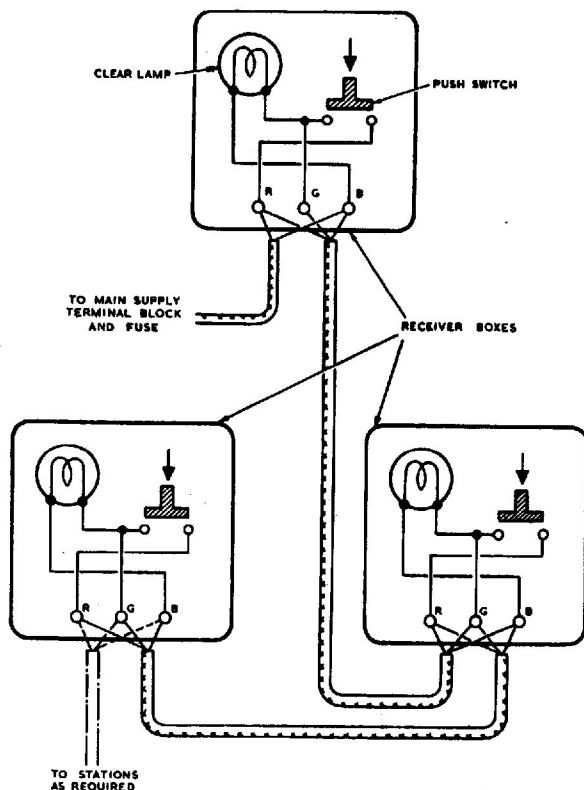


Fig. 2. Wiring diagram of intercommunication signalling

communication, he presses the push-switch of his own receiver box, using a pre-arranged code for the station required. This signal is flashed to each station on the aircraft, and the member of the crew at the station called then repeats back the call signal as an indication that he is ready for telephonic communication.

INSTALLATION

5. For information on details of a particular intercommunication system, reference should be made to the relevant Aircraft Handbook.

SERVICING

6. The system should be tested regularly for correct functioning. Vibration may tend to loosen the lamps in their screw holders, thus causing apparent lamp failure. Lamps should be inspected regularly, tightened up where necessary, and faulty filament lamps renewed. The action of the switches must be definite and there must be no flickering after the operation of the switch. Push-switches must be free but definite in action.

RESTRICTED