

Chapter 75

THUMB PLATE SWITCHES, DUNLOP SERIES

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Introduction

1. These thumb-plate switches are single-pole switches of the "press-to-make" and "release-to-break" type. They are intended for use on control handles of aircraft. A typical switch is described and illustrated in this Chapter and details of individual types are given in Appendix 1 to this Chapter.

DESCRIPTION

2. The general arrangement of a typical switch is shown in fig. 1. It consists of a brass box, the cover of which hinges on a swivel pin at one end. A return spring tends to raise the cover, which acts as a thumb plate for the switch, but is prevented by the curved portion at the outer end which engages on a lip on the box.

3. Secured within the box are a carrier plate bearing two fixed lower contacts, and a backing plate. A hole through the base permits the entry of the connecting cables.

4. The thumb plate carries a moving contact assembly, with contact blade and two upper contacts. As the thumb plate is depressed, the two lower contacts are bridged; as the operating pressure is released, the thumb plate moves upwards to its original position to break the contacts.

5. The switch is mounted by means of four fixing holes in the base, suitable for 6 B.A. csk/hd. screws.

SERVICING

6. Little servicing is possible with these switches apart from a general inspection for freedom from damage and a check for positive operation. A faulty switch must be renewed complete.

Insulation resistance test

7. Using a 250-volt insulation resistance tester measure the insulation resistance between the contacts. A reading of not less than 5 megohms should be obtained.

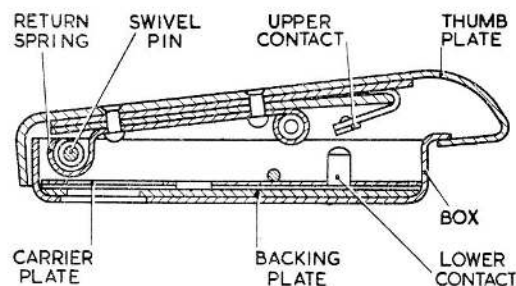
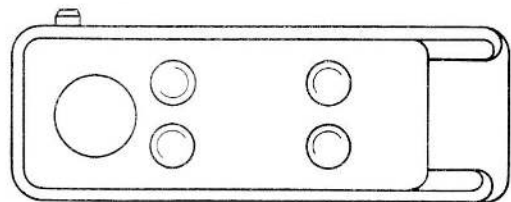


Fig. 1. Sectional view of typical switch

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Appendix 1

LEADING PARTICULARS

Dimensions of base (in.) $2\frac{1}{4} \times \frac{3}{4}$

Type	Ref. No.	Cable	Application
ACM 17050		11 in. equip. wire, Type 2, 14/0-0076	Press-to-mute
ACM 18686	5CW/6383		Target reject

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