

Chapter 66

AUTO-PILOT CUT-OUT SWITCH, TYPE ACM18230

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LEADING PARTICULARS

Auto-pilot cut-out switch, Type ACM18230	Stores Ref. 5CW/5844
Current rating	2 amp.
Nominal voltage	29 volts

Introduction

1. The type ACM18230 cut-out switch is a single-pole, snap-action switch of the "press to break" and "release to make" type. It is intended for use as an "instinctive" auto-pilot cut-out switch on the control handle of certain high speed aircraft.

DESCRIPTION

General

2. The switch (*fig. 1*) is of moulded construction and comprises a contact body, cover plate and an operating thumb plate. The moulded cover plate is riveted to the contact body by two rivets, one of which also secures the leafed return spring. The thumb plate fits over the front of the switch and is pivoted on an axis-pin which passes through the contact body.

Switch mechanism

3. The fixed contacts are moulded into the contact body and extend externally behind the switch to form crimping connections for the cables.

4. The contact-blade assembly consists of two moving contacts carried on a contact blade which has two central spring arms providing the downward thrust when the switch is in its normal position.

5. The knob of the contact-spring assembly protrudes through a slot in the thumb-plate moulding and has a rubber cover which fits

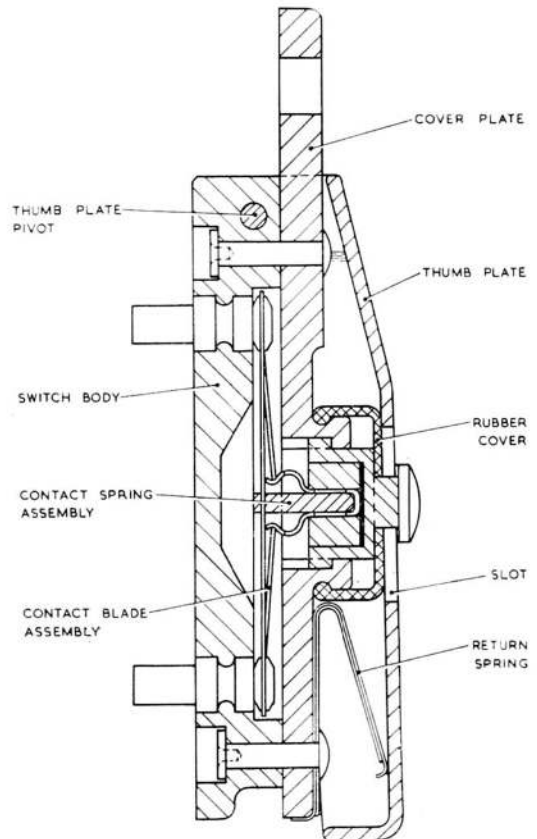


Fig. 1. Auto-pilot cut-out switch, Type ACM18230

(A.L.87, Dec. 56)

around the knob and over a central moulding on the cover plate; this prevents the entry of dust and dirt into the switch mechanism.

Operation

6. When the thumb plate is pressed, the actuating knob moves downwards causing the two central spring arms of the contact blade assembly to pass through the dead-centre position and so apply an upward thrust to the contact blade. This causes the contacts to "break" with a rapid snap-action.

7. On releasing the thumb, the leafed return spring causes the contact spring assembly to return to its original position thereby causing the two central spring arms

to pass once more through the centre line and close the contacts.

Installation

8. The switch is fitted into a vertical slot in the control handle and the contact body moulded registers over the lower edge of the slot. One 4 B.A. screw, which passes through the hole in the cover plate, secures the switch to the control handle.

Servicing

9. These switches are not repairable and should a switch become unserviceable it should be removed and replaced by a serviceable item.

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