

## Chapter 69

### PUSH-SWITCH, ROTAX, TYPE D0701

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#### LEADING PARTICULARS

Rating ...	7 amperes per pole
Length ...	1.906 in.
Diameter of body ...	1.100 in.
Dimensions of mounting flange ...	1.25 in. by 1.25 in.
Weight ...	1.5 oz.

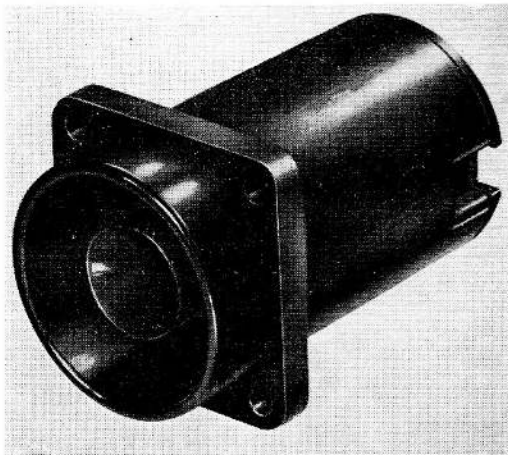


Fig. 1. Type D 0701 switch

#### Introduction

1. Rotax, Type D 0701 switch is a two-pole push-switch, both pairs of contacts being made when the operating button is depressed. The button has a spring return so that the contacts remain closed only as long as finger pressure is applied to the button. The button is situated in a cup-shaped guard moulding in order to reduce the risk of inadvertent operation.

#### DESCRIPTION

2. The switch is housed within a cylindrical moulded body. Four leaf contacts are each connected to one of four terminals; connection is made between the appropriate pairs of contacts when a plunger contact is depressed by the push button. Plunger return to normal is affected by a single helical return

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spring in compression. The mounting flange is integral with the body whilst the guard moulding is screwed into the end of the end of the body and forms the out stop for the push button. Access to the terminals is gained by removing a screw retained cover from the rear end of the body. Cable entries are two rectangular openings diametrically opposed in the side of the body.

#### INSTALLATION

0.120 in. diameter clearance mounts are provided in the mounting flange. Their mounting centres form a square 0.960 in. by 0.960 in.

Four terminals are 4 B.A. combined screw and washer terminations.

#### SERVICING

Ensure by visual inspection that the switch has not sustained damage and that it is secure on its mounting. Operate the plunger to ensure that its action is smooth and that the return is positive.

#### Millivolt drop test

6. Allow seven amperes to flow through each pole of the switch in turn (button depressed). The potential drop should not exceed 100 millivolts across either pair of terminals.

#### Insulation tests

Measure insulation resistance between terminals (button normal) and between

the two connected pairs (button depressed) using a 250-V. insulation resistance tester. A reading of at least 50,000 ohm. should be obtained in each test.

#### Note . . .

*The value of insulation resistance given in para. 7 applies to switches being tested under normal workshop conditions. Due allowance should be made for the climatic conditions of the locality and those of the aircraft servicing area or dispersal point where the tests are being applied. In particularly damp climates, the readings may be low enough to give apparently sufficient reason for rejection and, in these instances, discretion should be exercised.*

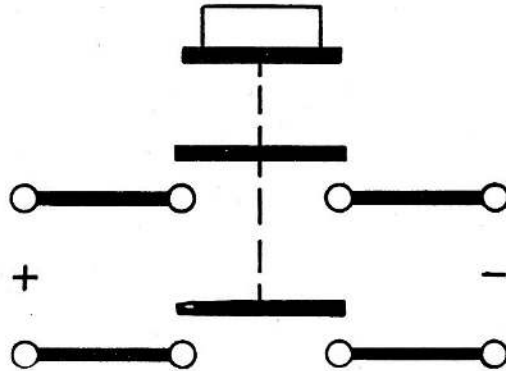


Fig. 2. Diagram of internal connections

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