Chapter 39

SWITCH, MAGNETIC, TYPE 1B (ROTAX F3103)

LIST OF CONTENTS

LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Switch, magnetic, Type 1B	Stores Ref. 5CW/4376
Voltage	28V, d.c.
Pull-in voltage	16 to 18 V,d.c.
Drop-out voltage	15 to 10 V,d.c.
Current rating	5 amp.
Operating coil circuit resistance	22·5 ohm.
Overall dimensions of base	3·128 by 3·0 in.
Height	3·5 in.
Weight	16 oz.

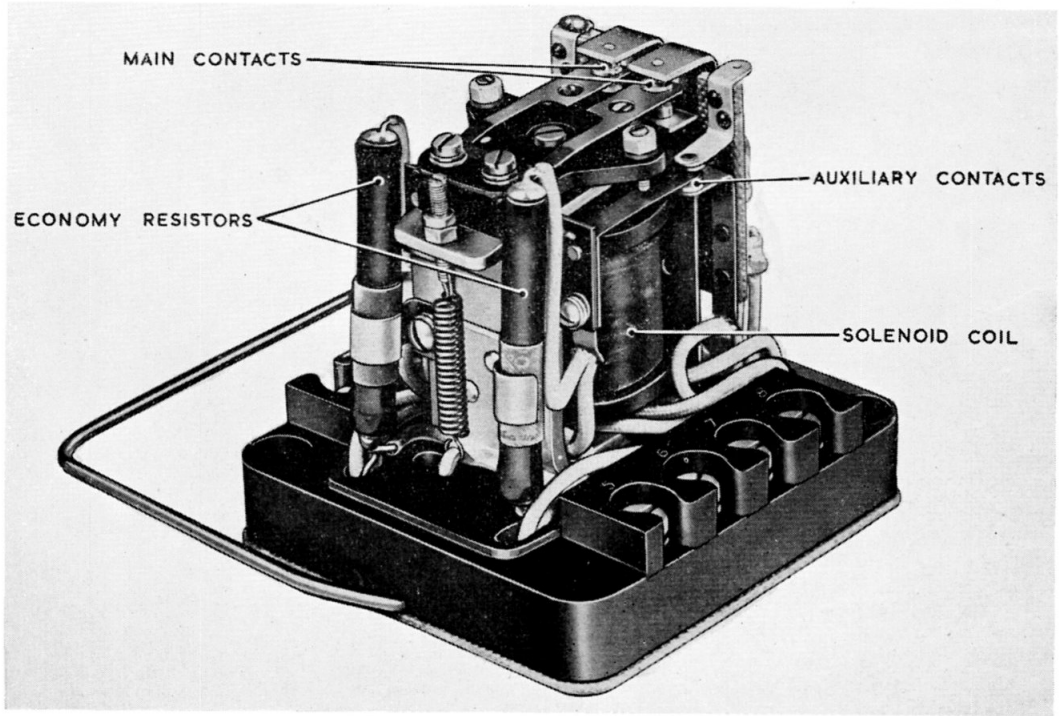

Fig. 1. Type 1B magnetic switch

Introduction

1. This magnetic switch (*fig.*1) is designed as a voltage pick-up in aircraft 28 volt d.c. generating systems.

DESCRIPTION

2. The Type 1B magnetic switch is physically similar to that described in A.P. 4343, Vol. 1, Sect. 11, Chap. 3.

3. The solenoid coil is connected in series with two paralleled 33 ohm resistors (*fig.* 2) and is kept energized, after the initial operation of the relay, by switching the coil circuit through two paralleled 100 ohm (50 ohm effective) resistors. The coil resistance is 6 ohm, and both the ON/OFF and main change-over contacts are rated at 5 amp.

4. Details of functioning, installation and servicing are given in the general chapter for the F3100 Series (A.P.4343, Vol. 1, Sect. 11, Chap. 3).

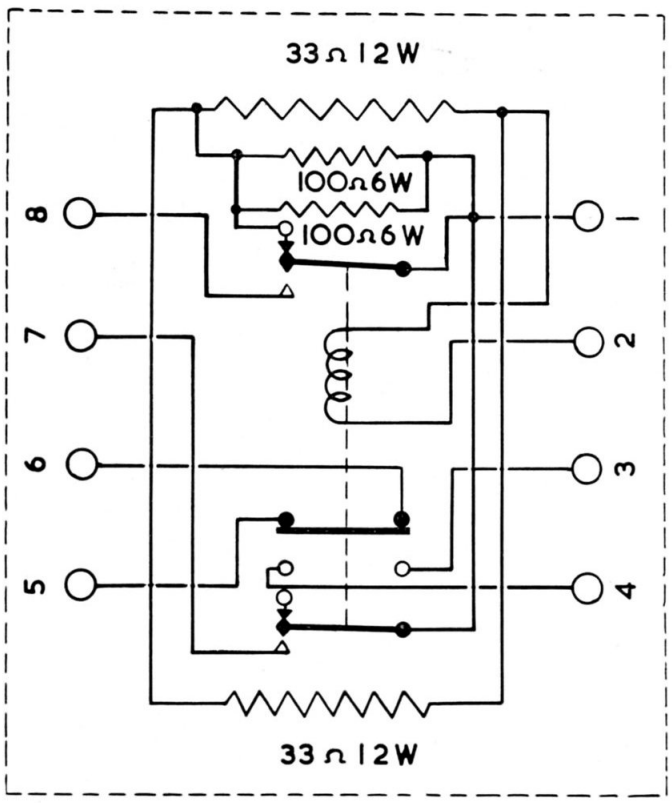

Fig. 2. Diagram of connections