Chapter 27

PUSH-SWITCHES, TYPES C5182Y AND C5183Y

LIST OF CONTENTS

LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Type	*Stores Ref.*	*Weight*	*Dimensions*
C5182Y, Mk. 2	*5CW/5643*	*10·25 oz.*	*5·58 in. × 3·68 in. × 1·625 in.*
C5183Y, Mk. 1	*5CW/5152*	*13·75 oz.*	*5·58 in. × 5·18 in. × 1·625 in.*
C5183Y, Mk. 2	*5CW/5034*	*13·75 oz.*	*5·58 in. × 5·18 in. × 1·625 in.*
C5183Y, Mk. 3	*5CW/*	*13 oz.*	*5·58 in. × 5·18 in. × 1·625 in.*

Introduction

1. The various Marks of push-switch, Types C5182Y and C5183Y, are all of basically similar design, but differ in the number of buttons and individual switch details. A list of the types covered is given under Leading Particulars; all are designed for undercarriage operation.

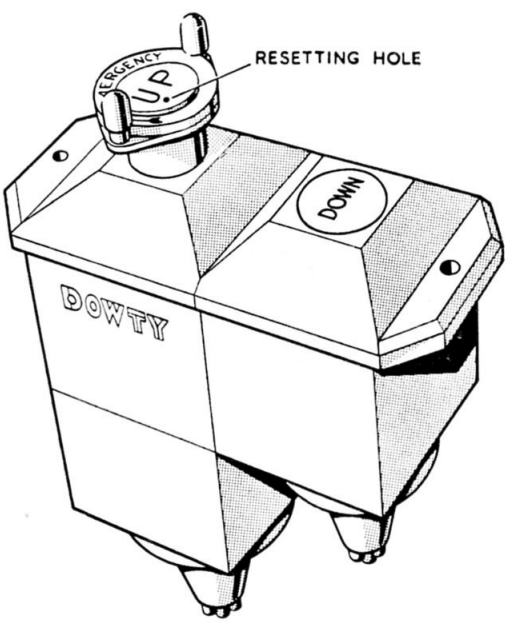

Fig. 1. Push-switch, Type C5182Y, Mk. 2
(A.L.105, May 57)

DESCRIPTION

2. A general view of a typical switch of this range, the Type C5182Y, Mk. 2, is shown in fig. 1. Details of the various Marks are given in fig. 2, and in Table 1, from which it will be seen that there may be either two or three sections with or without locking mechanism and with or without safety flaps. Each switch is interlocked with the others, so that only one button may be in at a time. As the button is depressed, it forcibly ejects the button already in.

TABLE I

Type	*No. of buttons*	*Lock section*	*Safety flaps*	*Contact arrangement*	
C5182Y, Mk. 2	2	Section 1	—	Both sections	A
C5183Y, Mk. 1	3	Section 1	Section 3	Sections 1 & 2	A
				Section 3	C
C5183Y, Mk. 2	3	Section 1	Section 3	All sections	A
C5183Y, Mk. 3	3	Section 2	—	All sections	A

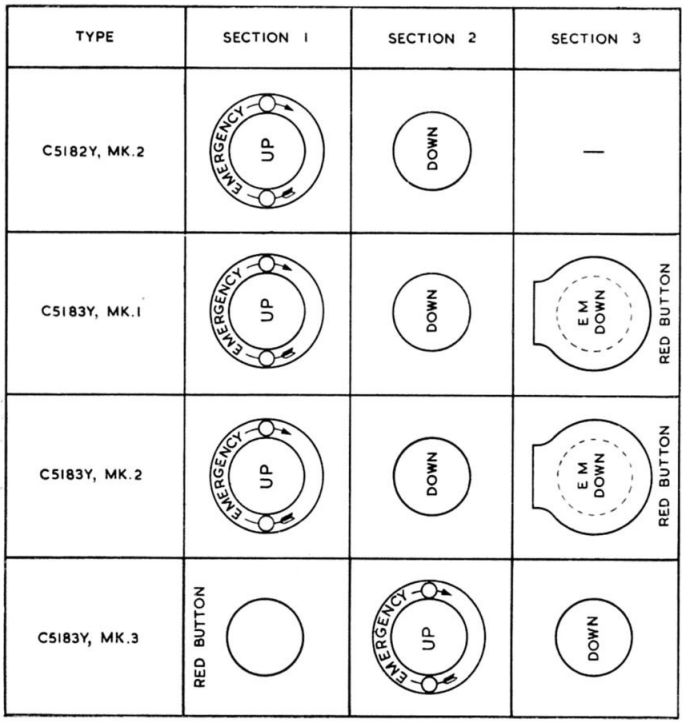

Fig. 2. Switch details

3. In the sections with a locking mechanism, this is of the type which becomes unlocked when a 24-volt d.c. supply is connected across terminals 5 and 6. The lock can be overridden in an emergency by turning the button 60 deg. in a clockwise direction, and then depressing it to close the switch. To re-set the locking, any other button should be depressed and a special re-setting tool or length of stiff wire inserted in the small hole in the lock button and pressed down until the button releases. The locking is tested at 60 lb., and this load should not be exceeded.

4. The terminal arrangement is shown in fig. 3, for either two or three-unit switches. Terminals 5 and 6 will appear only on sections incorporating the locking mechanism. Each switch is fitted with a synthetic rubber grommet, the tip of the sleeves being cut off as required on installation. Lock sections may be fitted with a mu-metal shield to reduce compass interference.

5. The links shown in fig. 3 are fitted on all sections of Type C5183Y, Mk. 2. In Type C5183Y, Mk. 1, they are supplied separately for Section 3, in Type C5182Y, Mk. 2, they are omitted from Section 1, and in Type C5183Y, Mk. 3, they are omitted from Section 3.

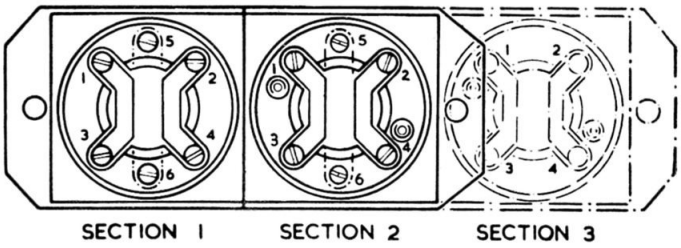

Fig. 3. Terminal arrangement

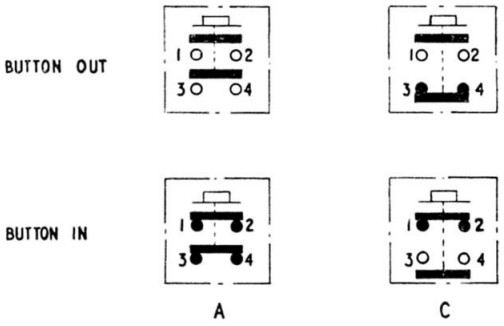

Fig. 4. Contact arrangement

INSTALLATION

6. To fit a new switch, remove the back cover, nip the extreme tip off the sleeves required, and feed the conductors through, causing the sleeves to invert. Finally, pull the conductors back to re-invert the sleeves.

SERVICING

7. No servicing is possible on these switches, which are sealed; a faulty switch must be renewed.