

Chapter 73

FUEL JETTISON SWITCHES, WESTERN, TYPES MAA 2635 AND MAA 2705

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LEADING PARTICULARS

Fuel jettison switch, Type MAA 2635Ref.No.
Fuel jettison switch, Type MAA 2705Ref.No.5CW/7238
Voltage	... ..	..28V d.c.
Current rating	... ..	..2.5 amp.
Temperature range	... ..	..-40 to +70 deg.C
Overall dimensions (in.)		
Type MAA 2635	... ..	.. 3.827 x 2.0 x 2.0
Type MAA 2705	... ..	.. 4.375 x 2.0 x 2.0
Weight (oz)		
Type MAA 2635	... ..	.. 8
Type MAA 2705	... ..	.. 9

RESTRICTED

Introduction

1. The switches, Types MAA 2635 and MAA 2705, have been designed for use in aircraft for fuel jettisoning.

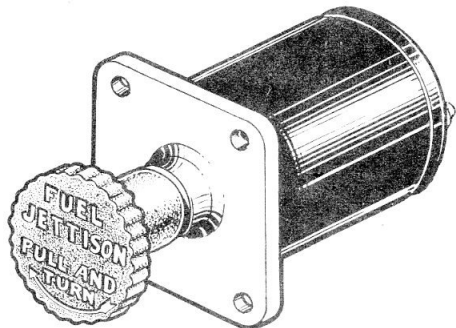


Fig.1 Fuel jettison switch, Type MAA2705

DESCRIPTION

Type MAA 2705

2. A general view of this switch is given in fig.1, with section views in fig. 2. It consists basically of a hand control knob secured to one end of a spring-loaded plunger, an operating pin at the other end of the plunger, three micro switches and a terminal block.

3. When the control knob is pulled out to its full extent, rotated clockwise through 65 degrees and released, the operating pin engages in two slots in the body and operates micro switches Nos. 2 and 3.

Type MAA 2635

4. This switch is similar in construction to Type MAA 2705 except that it has only two micro switches and the control knob is rotated through 90 degrees.

5. Electrical connection for both switches is made by means of a terminal block. Circuit diagrams are given in fig.3., access

to the terminal block is obtained by removing the back cover from the switch.

OPERATION

Type MAA 2705

6. With the plunger and control knob in their normally closed positions, terminals A and E2 (earth) are connected through micro switch No.2, whilst terminals G and E3 (earth) are connected through micro switch No.3.

7. Micro switch No.1 is for safety control and is operated by the initial movement of the actuator lever when the control knob is pulled out; terminals C and D (normally closed) are open circuited.

8. Micro switches Nos. 2 and 3 are for jettison control and when the control knob is pulled out, rotated clockwise through 65 degrees and released, terminals A and B are connected through micro switch No.2, terminals F and G are made through micro switch No.3 and terminals C and D remain open circuited.

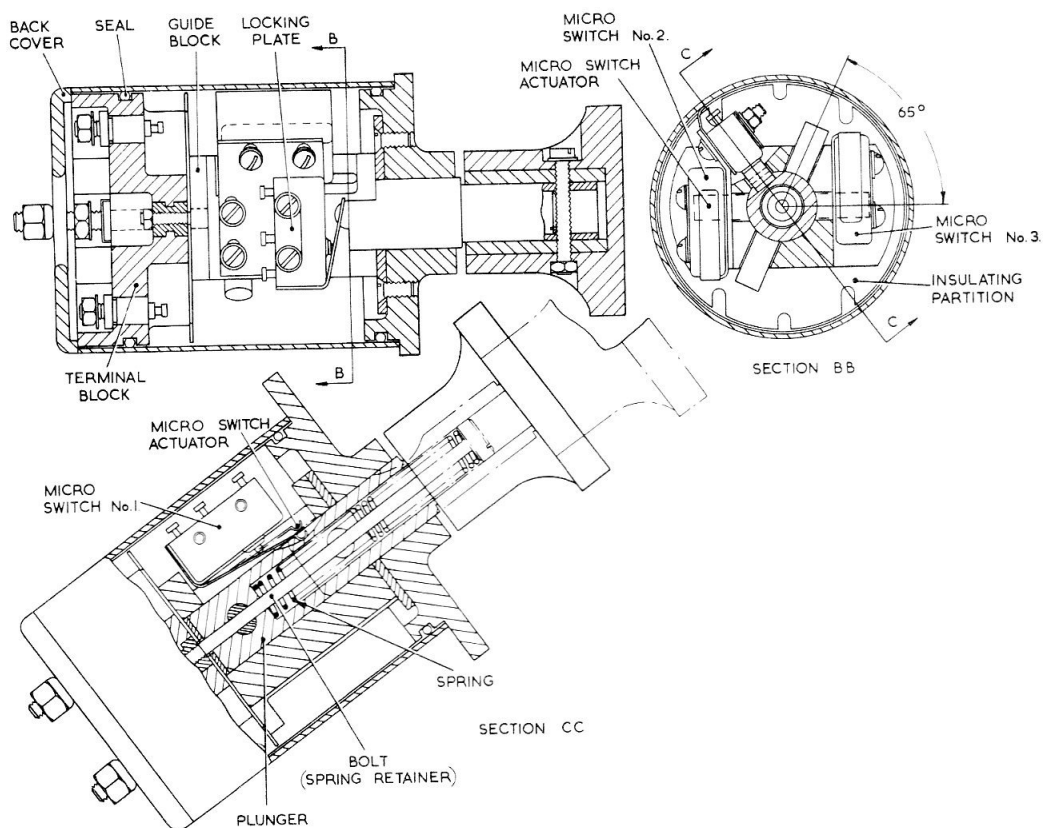
Type MAA 2635

9. With the control knob in the normal position, terminals A and B are open and terminals C and D are closed. When the control knob is extended, turned clockwise through 90 degrees, then released, terminals A and B are closed and terminals C and D opened.

INSTALLATION

10. These switches are panel mounted, four fixing holes, each 0.146 in. dia., on centres 1.625 in. x 1.625 in., are provided on each switch.

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**Fig.2 Section views of switch, Type MAA2705****RESTRICTED**

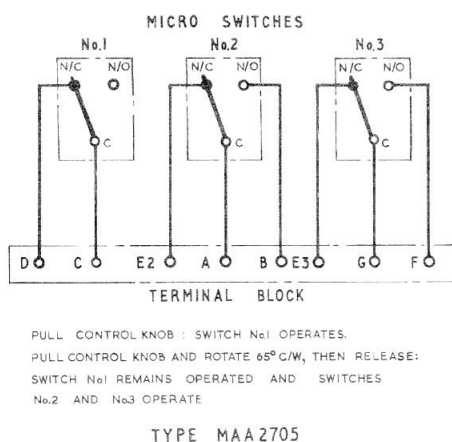
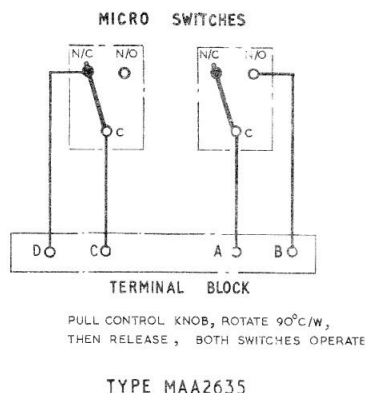


Fig.3 Circuit diagrams

SERVICING

11. Check the operation of the switch by ensuring that continuity between the terminals is as stated in the preceding paragraphs for all positions of the switch.

12. The millivolt drop on each individual circuit when carrying 2.5 amp., should not exceed 150 millivolts.

13. Using a 250-volt insulation resistance tester, check the insulation resistance between:-

- (1) The terminals of any two separate circuits.
- (2) All terminals connected together and the frame of the switch. A reading of not less than 20 megohms should be obtained for each test.