

## Chapter 82

# TEMPERATURE SELECTOR SWITCH, DE HAVILLAND TYPE CQ 2010

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### LEADING PARTICULARS

#### Temperature selector switch, Type CQ2010

##### Overall dimensions

<i>Length</i> ... ..	5.225 in.
<i>Height</i> ... ..	2.6 in.
<i>Width</i> ... ..	2.6 in.
<i>Weight</i> ... ..	14 oz.

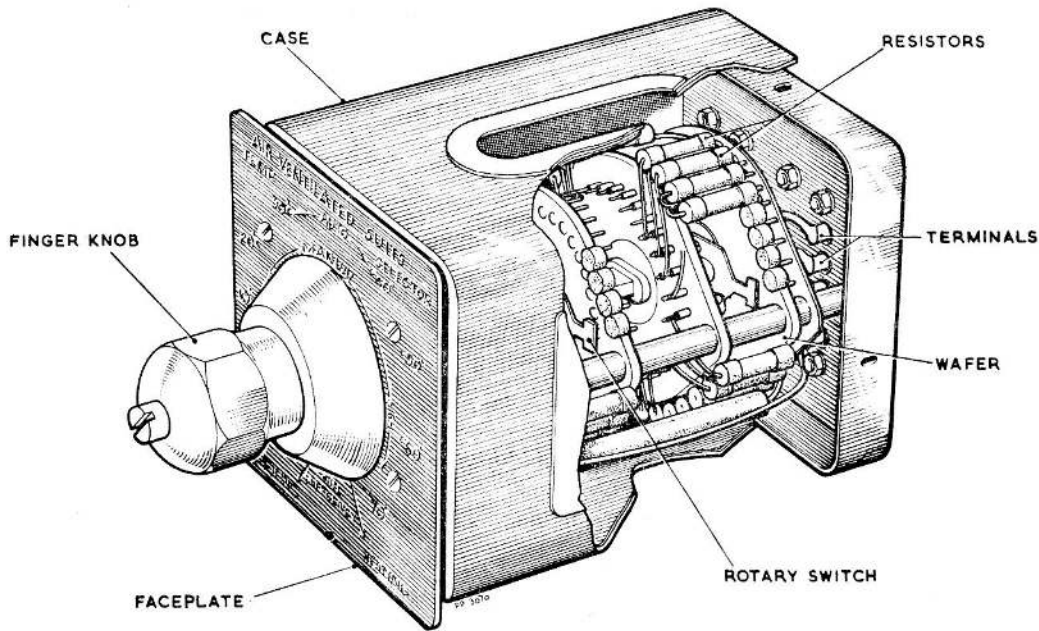


Fig. 1. Cut-away view of temperature selector switch, Type CQ2010

#### Introduction

1. The temperature selector switch, Type CQ2010, is fitted in the cockpit of aircraft to enable the degree of heating, required for the Mk. 2 ventilated suit pack, to be selected. The switch also allows for emergency heating or emergency cooling to be selected.

#### DESCRIPTION

2. The switch consists of four oval wafers fitted with inset contacts, a terminal block, an operating spindle and four rotary switches. The wafers and terminal block are mounted on two bolts and separated by spacers. An insulator is fitted between the terminal block and the adjacent wafer, and resistors of various electrical values are connected between the wafers. Passing through the centre of the wafers is an operating spindle, and attached to the spindle are four rotary switches which operate on the contacts in the wafers.

3. The switch assembly is contained in an aluminium alloy case. A finger knob, attached to the operating spindle, is used to select the required temperature within the range indicated on a graduated face plate attached to the front of the case.

#### OPERATION

4. The temperature selector switch provides for the selection of temperatures between 0 and 70 degrees C. The desired temperature is selected by aligning the arrow on the finger knob with the appropriate graduation mark on the face plate. A stop on the face plate prevents the knob from being rotated beyond the maximum normal heating position, but emergency heating or cooling can be selected by pulling the finger knob out clear of the stop, when it can be moved to the desired emergency setting.

5. When the finger knob is rotated the operating spindle is also turned thus moving the rotary switches over the contacts on the wafers. This movement of the rotary switches alters the number of resistors in circuit thus altering the temperature of the suit pack.

#### INSTALLATION

6. Install the switch in the aircraft as instructed in the relevant aircraft handbook. After installation check that by pulling out the finger knob, the EMERGENCY COOLING and EMERGENCY HEATING positions can be obtained.

#### SERVICING

7. Routine servicing consists of checking for security of installation.

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