

**Chapter 4**

**SYNCHRONIZER SWITCH UNIT, DE HAVILLAND, TYPE Q1088/2**

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**LEADING PARTICULARS**

**Synchronizer switch, Type Q1088/2**

*Overall dimensions—*

<i>Height (installed position)</i> ... ..	8 in.
<i>Width</i> ... ..	8.3 in.
<i>Depth</i> ... ..	5.95 in.
<i>Weight</i> ... ..	4.8 lb.

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## Introduction

1. The synchronizer switch unit, Type Q1088/2 (fig. 1) consists of a switch chassis assembled to a plug plate and a front panel. A dust cover is fitted to the whole unit and secured with Dzus fasteners. The unit is mounted on the pilot's console in the cockpit.

## DESCRIPTION

### Switch chassis

2. This is a box unit with deep cut-outs in the sides, and an end panel for mounting the following switches: a 4-wafer switch for the stand-by and emergency propeller selector, a 3-wafer switch for master propeller selection, a 1-wafer switch for ALL PROPELLERS increase/decrease, and a SUPERFINE-PITCH on/off switch. One end of the unit is open for assembling the plug plate; close to the plug plate and on one side of the box unit a resistor panel is fitted for housing the two voltage-dropping resistors in the 112-volt d.c. line, which are connected to the micro switches in the step-switch unit of the actuator control box.

### Plug plate

3. Two 26-pole plugs for No. 1 and No. 2 propellers, two 14-pole plugs, for No. 3 and No. 4 propellers, one 12-pole plug for "common," and one 14-pole plug for "common emergency" connections are mounted on the plug plate, which is assembled to the switch chassis and retained with four 4 B.A. csk/hd. screws.

### Front panel

4. This assembly is attached to the end panel of the switch chassis with four special screws. Four electro-magnetic indicators for MIN and MAX rev/min are mounted on the panel, two on either side of the operating lever of the ALL PROPELLERS increase/decrease switch. Four toggle switches for increasing or decreasing the rev/min of individual propellers are mounted on either side of the operating lever of the master propeller selector switch. The lower portion of the panel is fitted with a spring-loaded cover which must be released and lifted to gain access to the control knob

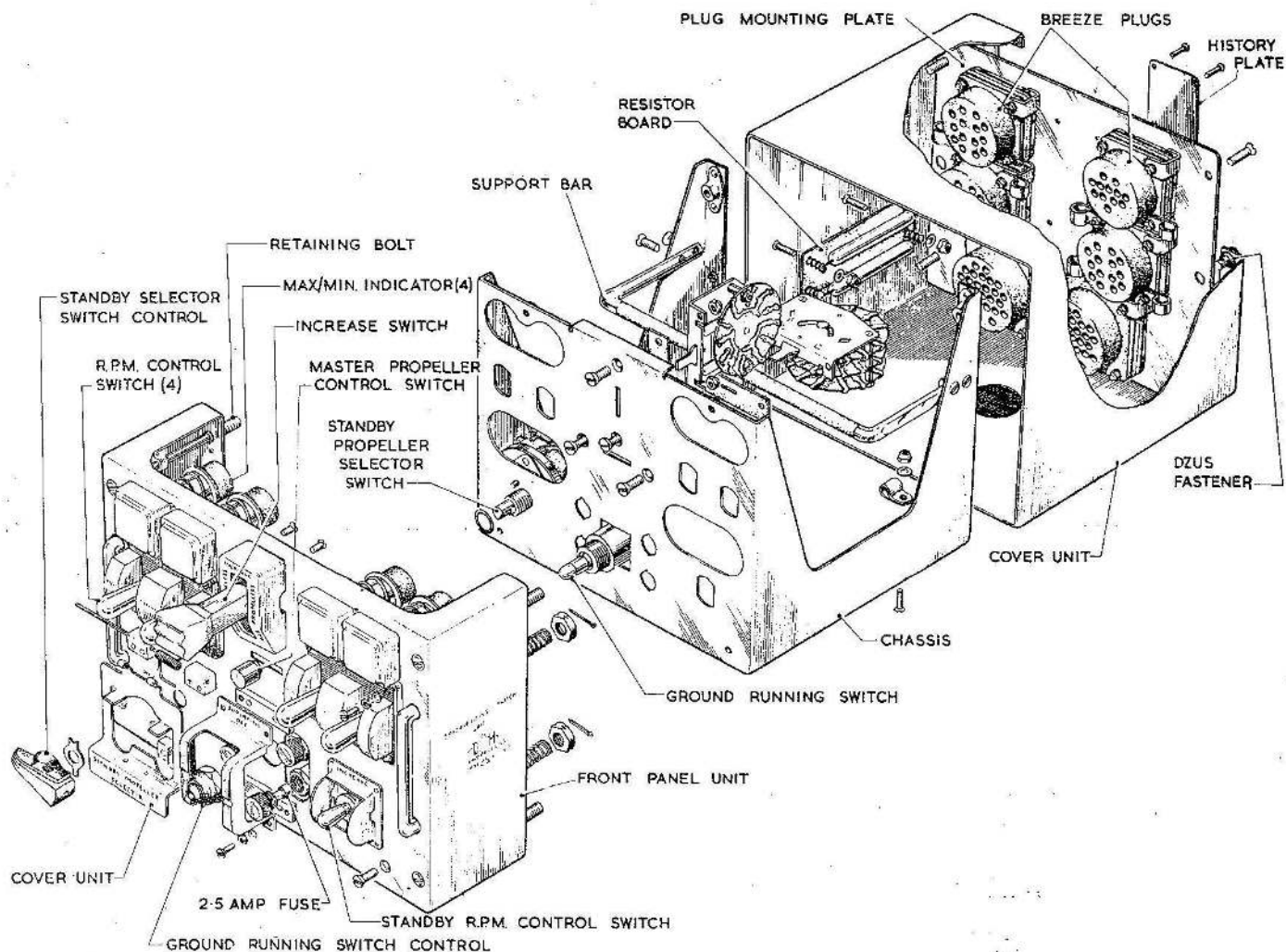


Fig. 1. Exploded view of synchronizer switch

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