

## Chapter 25

## RECTIFIER UNIT, TYPE CP19 (ROTAX U1604)

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## LEADING PARTICULARS

<b>Rectifier unit, Type CP19</b>	...	...	...	Ref. No. 5UC/6013
<i>Overall dimensions —</i>				
<i>Length</i> ... ..	...	...	...	12.787 in.
<i>Width</i> ... ..	...	...	...	7.910 in.
<i>Height</i> ... ..	...	...	...	4.890 in.
<i>Weight</i> ... ..	...	...	...	9 lb. 4 oz.

## Introduction

1. The rectifier unit, Type CP19, is used in conjunction with control panel, Type 19, or control panel, Type 19, with control panel, Type 25, to regulate the output voltage of the Type 153 inverter. A description of the control panel and the method of control is given in Book 2, Sect. 7, Chap. 3 of this publication, which includes a circuit diagram and inter-connection diagram for the complete installation.

## DESCRIPTION

2. The components of the unit are mounted on a chassis, and are enclosed within a cover box which is secured to the chassis by two captive thumb nuts at the rear end. Secured to a plate, which is riveted to the front of the chassis, are the plugs and a handle.

## INSTALLATION

3. The rectifier unit should be secured to a standard tray mounting E.L.39463-3B, with flexible mounting (for chassis 11.0 in. × 8.0 in.).

4. The rectifier has three plugs for external connection, viz.:—

- PL1. 12-pole plug to control panel; Inter-Services Ref. Z560151.
- PL2. 6-pole plug to control panel; Inter-Services Ref. Z560080.
- PL3. 6-pole plug to control panel; Type 25, when required; Inter-Services Ref. Z560581 (only 5 poles connected).

## RESTRICTED

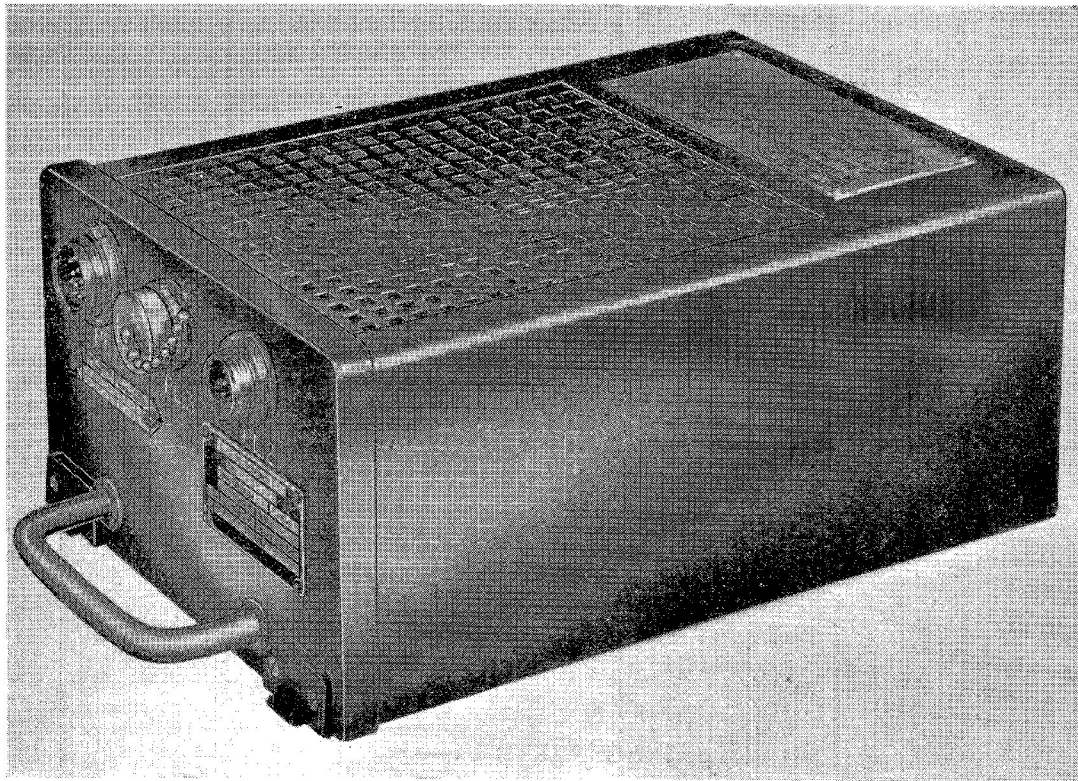


Fig. 1. General view of Type CP19 rectifier unit

#### SERVICING

5. Testing of the rectifier unit for correct operation will normally be done with the unit connected to the control panel, Type 19, as described in A.P.4343B, Vol. 1, Book 2, Sect. 7, Chap. 3. When examination indicates that the fault is in the rectifier unit, remove the cover and check the wiring connections to the rectifiers, plugs and transformers. Check also the insulation resistance of each rectifier to the case, and the reverse resistance of each section of each rectifier.

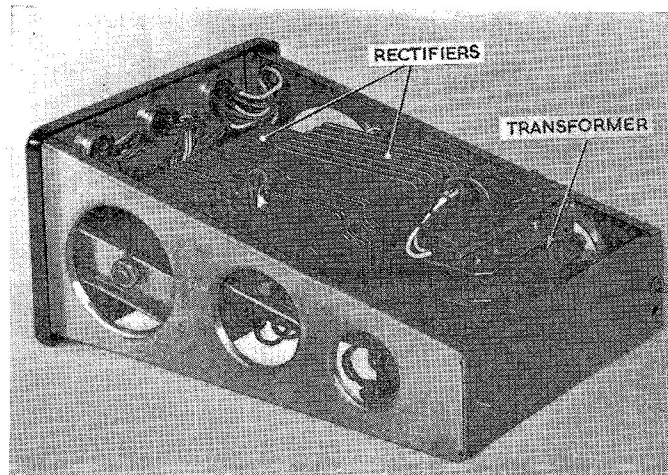


Fig. 2. Type CP19 rectifier unit, with cover removed

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