

Chapter 10

VOLTAGE SENSING UNIT
Rotax, Type U.3624

LIST OF CONTENTS

	Para.		Para.
<i>Introduction</i>	1	<i>Transistor T3</i>	33
<i>Description</i>	3	<i>Relay RL1</i>	34
<i>Operation</i>	4	<i>Terminal block</i>	35
<i>Sensing and pre-amplifier circuit</i>	5	<i>Printed circuit board</i>	36
<i>Relay switch circuit</i>	7	<i>Final assembly</i>	37
<i>Voltage sensing operation</i>	10	<i>Setting and testing</i>	38
<i>Installation</i>	16	<i>Test equipment</i>	39
<i>Servicing</i>	18	<i>Continuity test</i>	40
<i>Dismantling</i>	20	<i>Insulation resistance tests</i>	41
<i>Printed circuit board</i>	23	<i>Calibration of the suppressed zero volt-meter</i>	42
<i>Terminal block</i>	24	<i>Setting, voltage sensing unit</i>	43
<i>Relay RL1</i>	25	<i>Time delay test</i>	44
<i>Transistor T3</i>	26	<i>Fault finding</i>	45
<i>Rectifier MR5</i>	27	<i>Fault finding procedure</i>	50
<i>Assembling</i>	28		
<i>Rectifier MR5</i>	32		

LIST OF TABLES

	No.
<i>Wiring connections</i>	1
<i>Circuit component details</i>	2

LIST OF ILLUSTRATIONS

	Fig.		Fig.
<i>General view of voltage sensing unit</i>	1	<i>Printed circuit board component location diagram</i>	4
<i>Circuit diagram</i>	2	<i>Test circuit diagram</i>	5
<i>Views showing component location</i>	3		

LIST OF APPENDICES

	App.
<i>Standard serviceability test for voltage sensing unit, Rotax, Type U3624</i>	A

RESTRICTED

LEADING PARTICULARS

Voltage sensing unit, Rotax, Type U.3624						...	Ref. No. 5UC/8000	
<i>Operating voltage</i>		...	...	...	...	...	32 <i>V d.c. (max)</i>	
<i>Switch on voltage</i>		...	...	...	...	...	26 <i>V d.c. (max)</i>	
<i>Switch off voltage</i>		...	...	...	...	...	24.7 <i>V d.c. (min)</i>	
<i>Rating</i>		...	...	...	...	...	...	<i>Continuous</i>
<i>Altitude</i>		...	...	...	...	...	...	56,000 <i>ft</i>
<i>Temperature range</i>		...	...	...	...	...	-40 to +55 <i>deg.C.</i>	
<i>Overall dimensions—</i>								
<i>Length</i>		...	...	...	...	...	...	2.875 <i>in</i>
<i>Width</i>		...	...	...	...	...	...	3.75 <i>in</i>
<i>Height</i>		...	...	...	...	...	...	2.41 <i>in</i>
<i>Weight</i>		...	...	...	...	...	...	10 <i>ozs approx.</i>

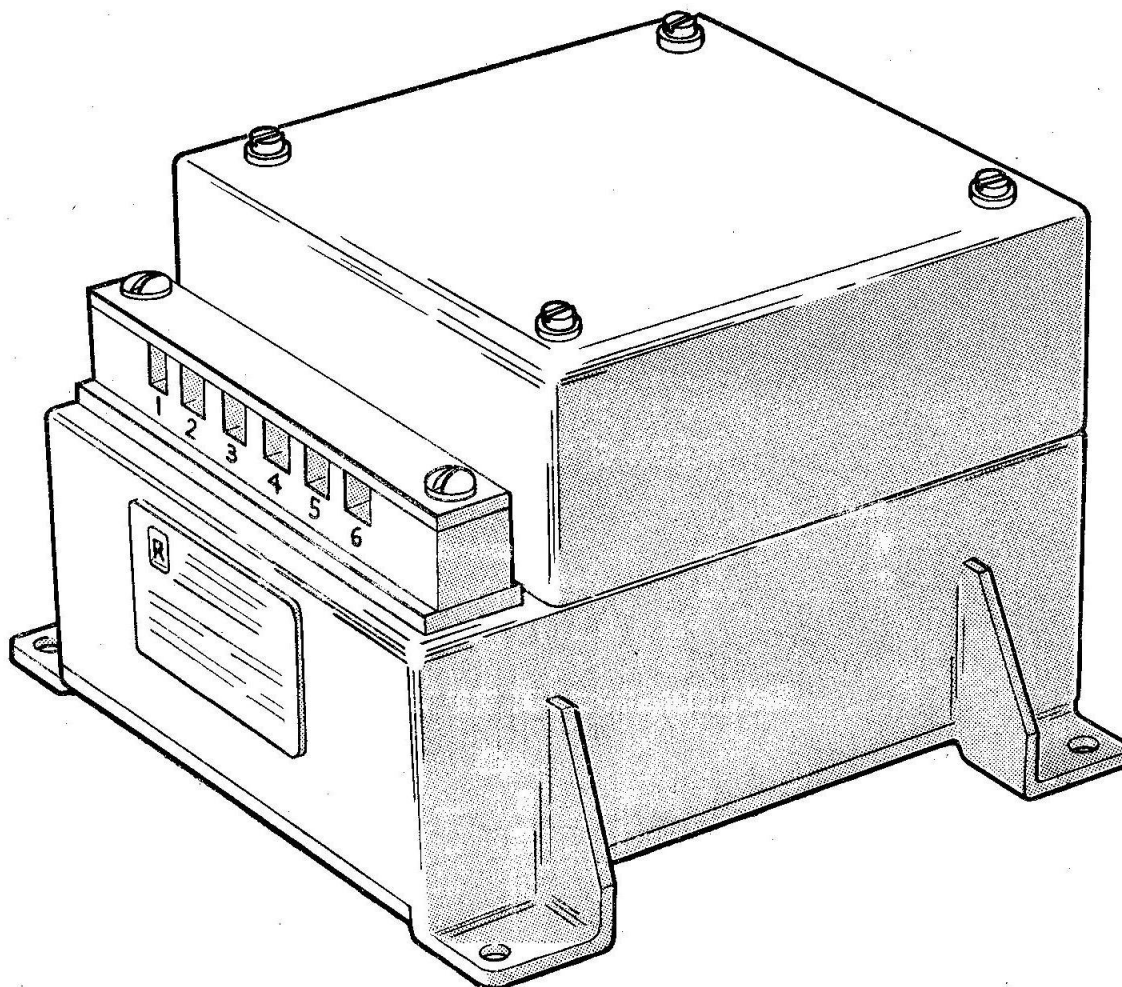


Fig. 1. General view of voltage sensing unit

RESTRICTED