

Chapter 2 RADAR INSTALLATION

LIST OF CONTENTS

	<i>Para.</i>
<i>Introduction</i>	1
<i>Description</i>	
<i>A.R.I.5131 (I.F.F. Mk.3GR) installation</i>	2
<i>Servicing</i>	5
<i>Removal of equipment</i>	7

LIST OF ILLUSTRATIONS

	<i>Fig.</i>
<i>A.R.I.5131 (I.F.F. Mk.3 GR) installation</i>	1
<i>A.R.I.5131 (I.F.F. Mk.3 GR) wiring</i>	2

Introduction

1. This chapter contains a description of the I.F.F. Mk.3 installation together with notes on servicing the equipment in situ. A full description of the function, circuit details and servicing of the units is given in A.P.2887D, Vol. 1. Fig. 1 is an illustration giving the location of the units and fig. 2 is a wiring diagram showing the interconnection of the unit and switches.

DESCRIPTION

A.R.I.5131 (I.F.F. Mk.3GR) installation

2. Briefly the function of the I.F.F. equipment is to enable the aircraft to identify itself as friendly when challenged by suitably equipped ground, ship, or airborne radar stations.

3. The equipment comprises four main units:— a receiver, Type R3121, a control unit, Type 89, a control unit, Type 90, and an aerial Type 90. The receiver is mounted on a support structure in the starboard after corner of the cabin, behind the 2nd pilot's seat. The control units, Type 89 and 90 are secured to the starboard cabin wall abreast the seat. The aerial Type 90 is located on the under side of the starboard wing, near the wing tip.

4. A push button switch and a pair of toggle switches and terminal blocks are located on the cabin wall adjacent to the Type 89 control unit. These switches (labelled "G" AUTO and MANUAL, and "G/D") select the frequency band upon which the equip-

ment shall operate. Pressing the push-switch initiates a 35 second time sharing period between the normal "A" band (157-187 Mc/s) and the "G" band (200-210 M/cs). After 35 seconds the equipment reverts to normal "A" band working. A full description of the band switching arrangements is given in A.P.2887D, Vol. 1.

SERVICING

5. The receiver should be checked periodically for its general condition. The knurled locknuts at the front of the mounting tray should be securely screwed home and the plug and socket connections clean and tight. The plug pins should be opened slightly where necessary to ensure good electrical contact. The coaxial aerial socket should be

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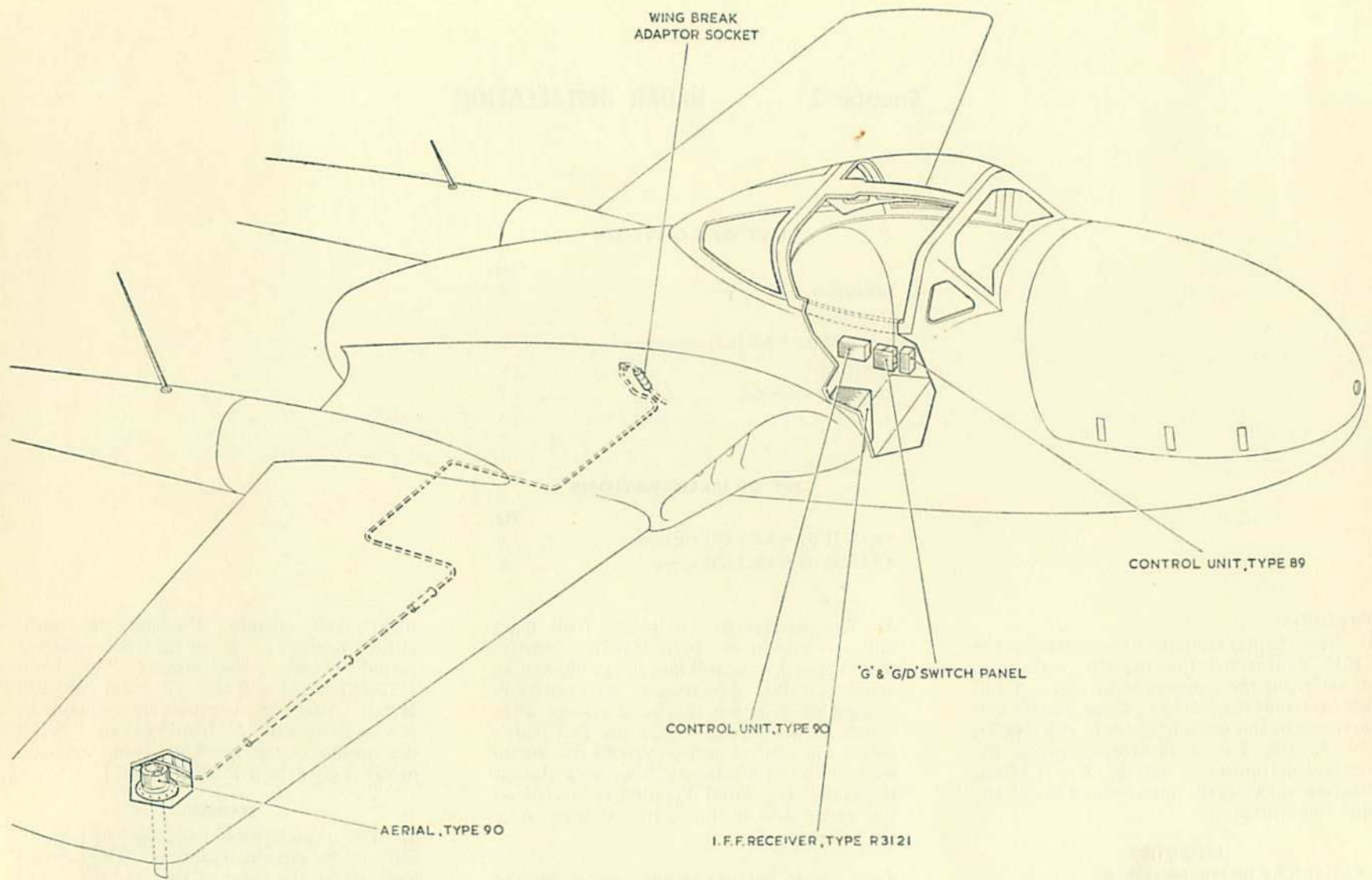


Fig. 1. A.R.I.5131 (I.F.F. Mk.3 GR) installation

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