

# RADIO CORPORATION PTY. LTD. Bulletin: HQ-2

DIVISION OF ELECTRONIC INDUSTRIES LTD. . File: Receivers AC. 126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4.

Date: 4/6/51.

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## TECHNICAL BULLETIN

SUBJECT:

## 6BE6 CONVERTER TUBE

The type 6A8G converter tube used in the Model "HQ" receiver has been changed to a type 6BE6 converter tube.

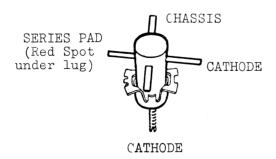
A new circuit using a 6BE6 tube in the converter stage is shown on page two of this service sheet.

The socket connections and new components required for the 6BE6 tube and the connections for the new oscillator coil are detailed below:--

#### NEW COMPONENTS

Circuit No.	Description.	Part No. Al04/58	
	7 pin socket		
	Socket Mount Plate	15/698	
	Eyelets-socket mounting	2/291-1	
	Eyelets-adaptor plate mtg.	4/291	
54	20,000 Ohm $\frac{1}{2}$ watt resistor	PR166	
<b>5</b> 5	30,000 Ohm 1 watt resistor	PR156	
	6BE6 tube	_	
56	Oscillator coil	PT859	

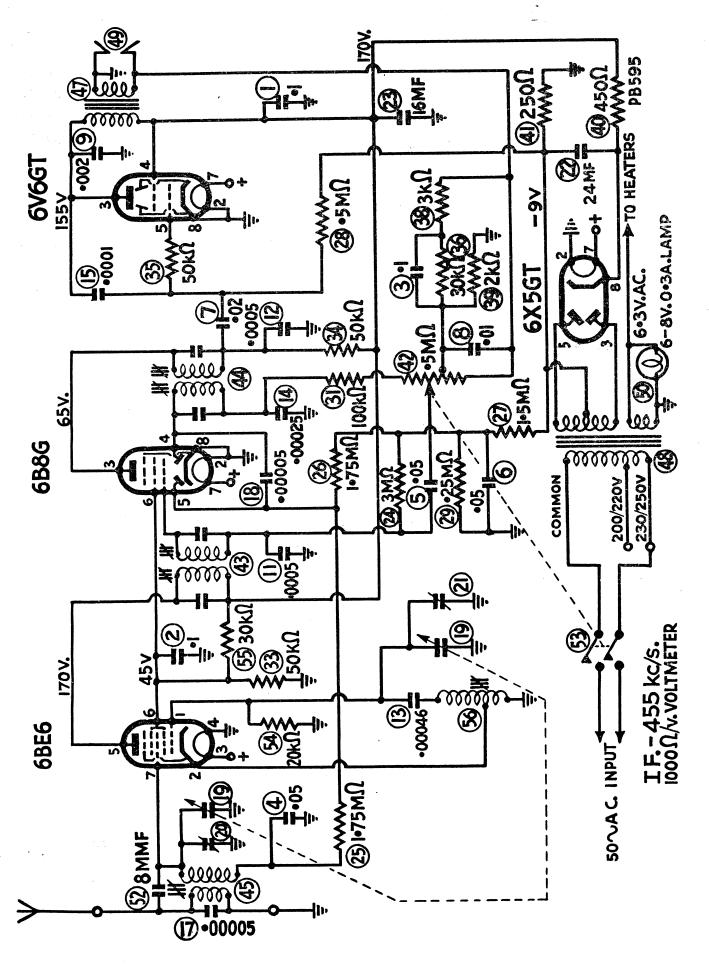
#### OSCILLATOR COIL CONNECTIONS



#### 6BE6 SOCKET CONNECTIONS

Pin	No.	l.	Oscl. grid	Pin 1	No.	4.	Heater
,,	,,	2.	Cathode	,,	"	5.	Plate
,,	,,	3.	Heater	"	"	6.	Screen

Pin No. 7. Signal grid





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## TECHNICAL BULLETIN

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## CIRCUIT COMPONENT CHANGE

To improve the power output on strong signals with current production 6B8G valves the following circuit components have been changed-

- A. Circuit No. 24, a 3 Megohm resistor changed to a 1.5 Megohm carbon resistor, tol.  $\pm 10\%$ ,  $\frac{1}{2}$  Watt, Part No. PR388, new circuit No. 57.
- B. Circuit No. 27, a 1.5 Megohm resistor changed to a 1 Megohm carbon resistor, tol.  $\pm 10\%$ ,  $\frac{1}{2}$  Watt, Part No. PR246, new circuit No. 58.

### **CIRCUIT MODIFICATION**

The end of the 1.75 Megohm AVC bias filter resistor circuit No. 25 which is connected to the 6B8G valve diode (pin No. 5) and the junction of the .00005 MFD. condenser Circuit No. 18 and the 1.75 Megohm filter resistor circuit No. 26 has been changed from this position and is connected to the junction of the volume control and the 100,000 Ohm. resistor circuit No. 31.

This change applies simple AVC to the converter valve instead of delayed AVC bias.

#### DIAL-KNOB ASSEMBLY

Early production of the Model "HQ" receiver had the dial reading and the tuning knob as a complete moulding and which was a push-on fitting to the varb. cond. drive shaft. Part numbers for these dials are listed in Service Bulletin HQ-1.

This moulding has been changed so that the dial reading and the push—on tuning knob are separate parts. From the outside of the cabinet the dial reading position before being tightened to the bush on the drive spindle with screws can be varied for more accurate logging. Wobble when the dial reading is turned has been eliminated.

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	NEW COMPONENTS USED WITH THE NEW DIAL ASSEMBLY	Part No.		
Variable condenser with different drive assembly				
Drive spindle bush				
	Drive spindle bush grub screw (2) $\frac{1}{4}$ " x 5/32" Whit.	30/560-7		
Dial reading N.S.W.				
	" Vic Tas.	26/755-3		
	" " Q'land	26/755-4		
	" S.A W.A.	26/755-5		
Dial locating washer				
Dial locating washer fastening screws (3) $\frac{1}{4}$ x 3/32 Csk. Hd. Whit.				
Paper washer-behind knob				
Felt washer-between knob and paper washer				
Knob circlip				
Knob				



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HQ-4.

Date: 12/3/52.

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# TECHNICAL BULLETIN

## 6AD8 VALVE SUBSTITUTE FOR 6B8G VALVE

The next production run of the Model "HQ" Receiver will use a 6AD8 valve in place of the 6B8G valve. The change is due to 6B8G valves being in short supply. Modifications to the circuit and circuit components are as follows—

- 1. The diode end of the 1.75 Megohm A.V.C. bias filter resistor circuit No. 25 is connected to the junction of the 100,000 Ohm. resistor circuit No. 31, the .00025 MFD. Cond. and the 2nd I.F. Transformer, circuit No. 44.
- 2. Circuit No.31. a 100,000 Ohm. resistor is changed to a 50,000 Ohm. carbon resistor, tol.  $\pm 10\%$  ½ watt, Part No. PR\$\( 60\), new circuit No. 59.

#### VALVE SOCKET CONNECTIONS

					<b>6B8G</b>	6 A D 8
Pin	No.	1	·.		Chassis	Screen Grid
11	11	2			Heater-	Signal Grid
11	. 11	3			Plate	Cathode-Chassis
11	11	4			Diode	Heater+
11	**	5		-	AVC Diode	Heater-
11	11	6			Screen	Plate
11	11	7			Heater+	AVC Diode
11	11	8			Cathode-Chassis	Diode
11	**	9				Suppressor Grid-Chassis

## **NEW PARTS REQUIRED:**

	PART NO
9-Pin Valve Socket	279/250
Valve Socket Adaptor Plate	33/698
6AD8 Valve	6AD8
50.000 Ohm., & Watt Resistor	PR160

A new circuit diagram which shows a 6AD8 valve is on page 2.

