

General Description: A fully transistorised stereo radiogram with provision for the connection for an F.M. stereo decoder unit. Circuit features include A.F.C. and provision for tape recording and replaying.

Waveband Coverage: 87.5–100 MHz.

Semi-Conductors: 19 transistors + 5 diodes.

Frequency Response: 50–20kHz.–2dB.

Power Supply: 220–240volts 50Hz.

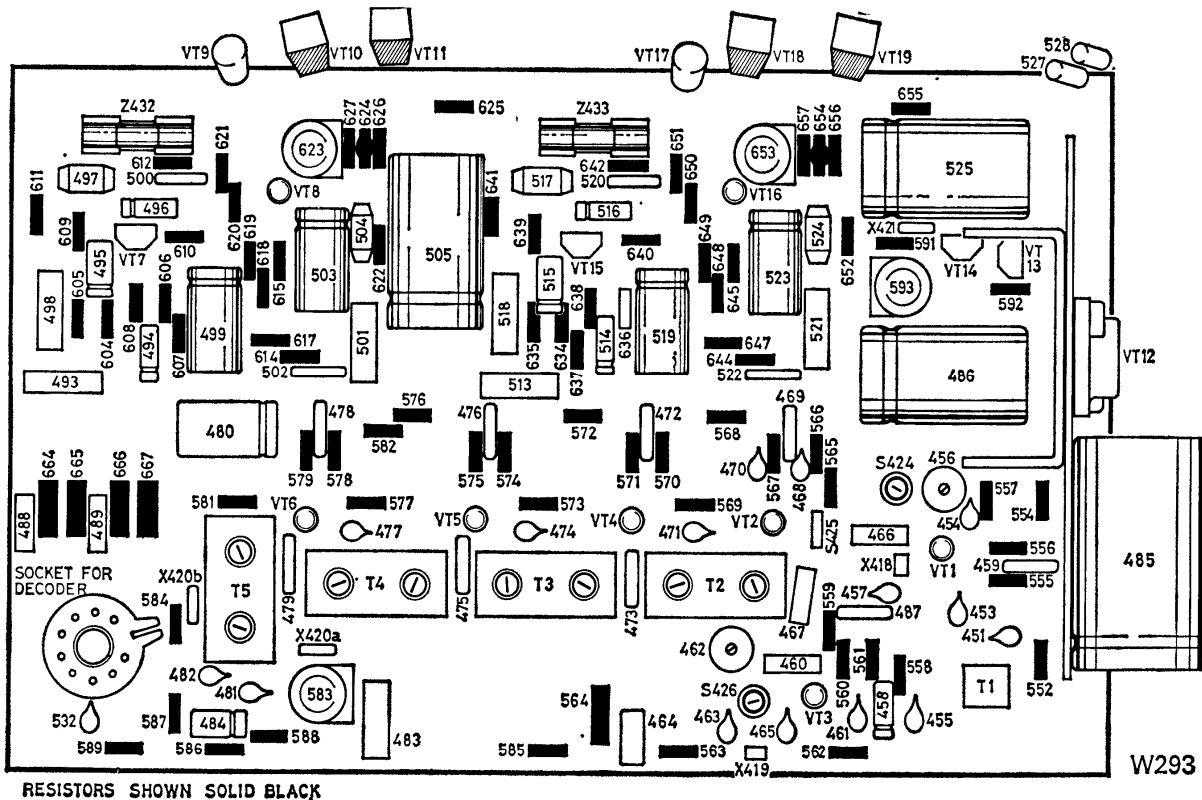
Output: 3 watts per channel sine wave

Input Impedance: 300ohms.

Output Impedance: 4–5 ohms.

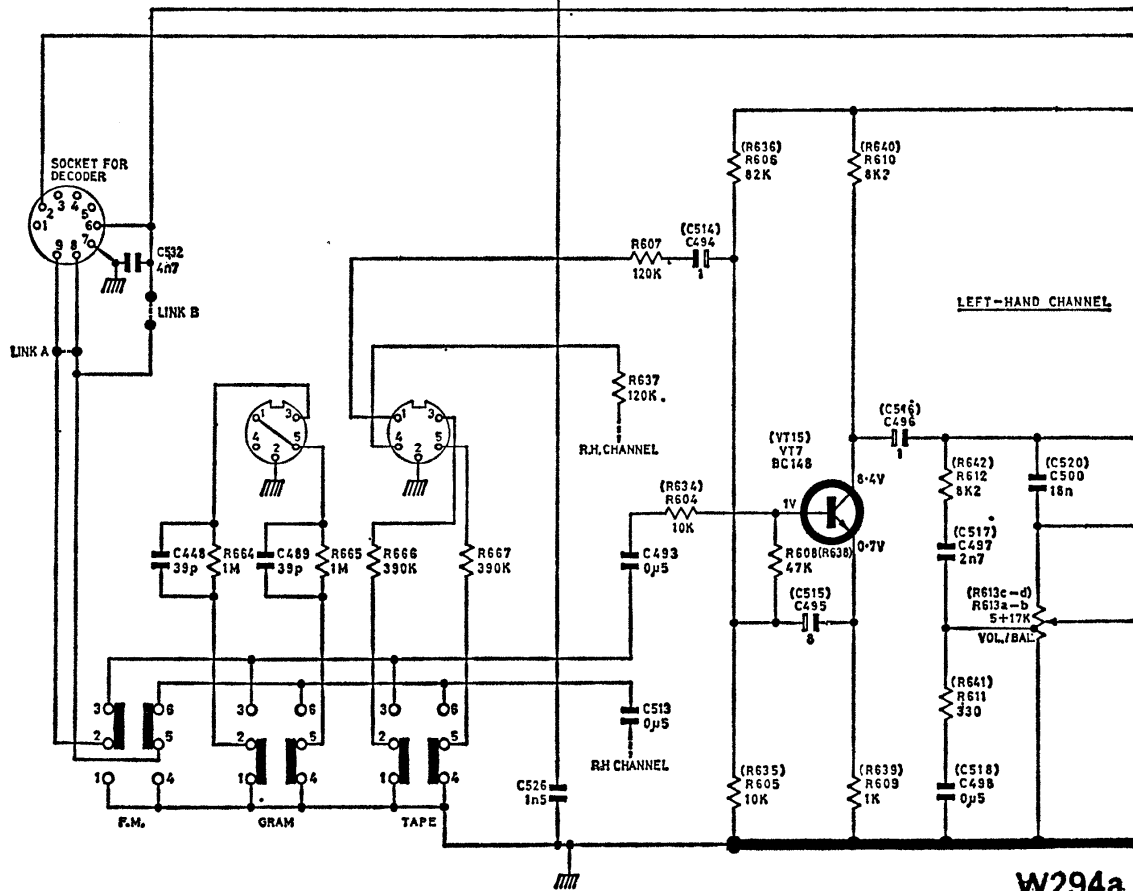
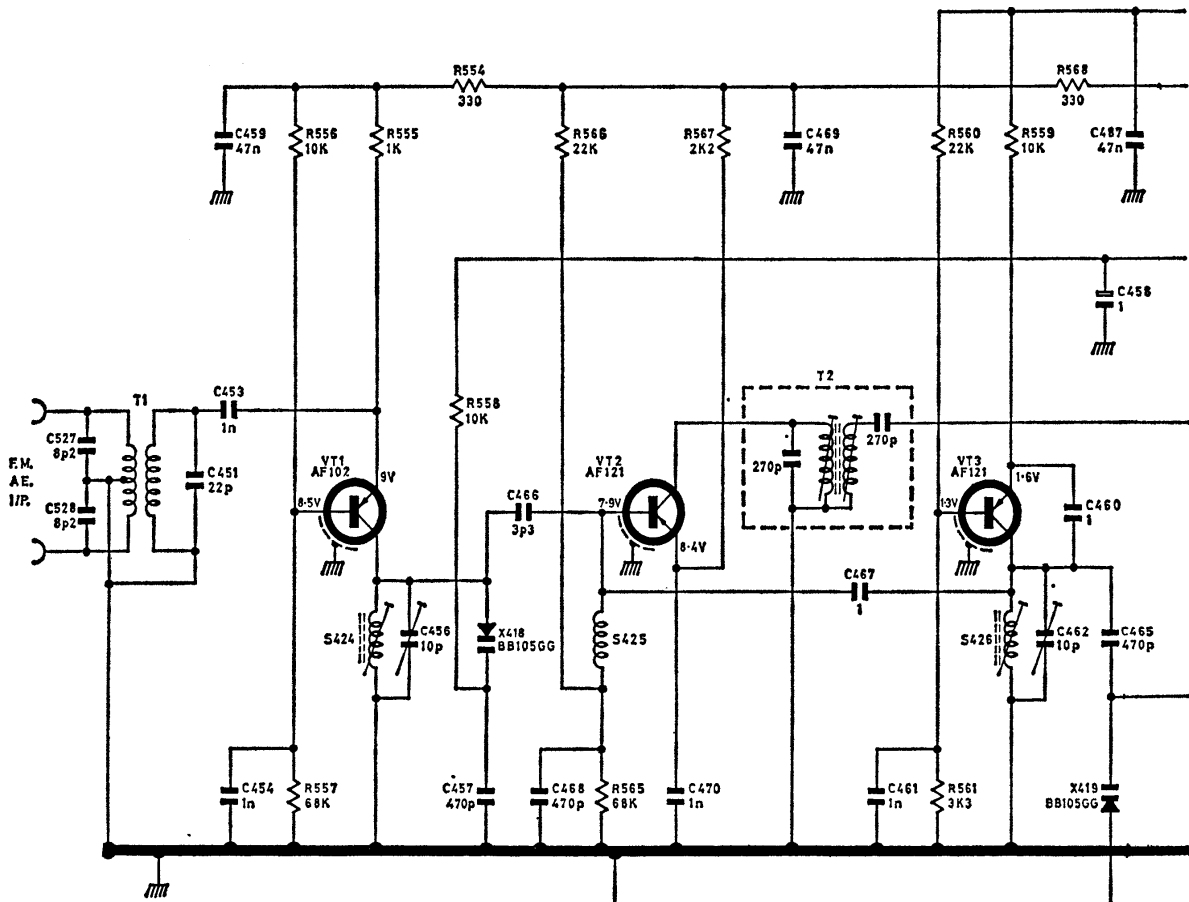
Stereo Decoder: The type ZB₅C Decoder is designed for use with the SRG607 and provision is made for it to be mounted on the chassis behind the Tuning/Tone controls. When installing, the following modifications are required. Remove links A and B adjacent to Decoder Socket. Remove capacitor C₅₃₂ (4n7). Check that R₆₁₄ (on Decoder Panel) is 820ohm.

Access to Chassis: Remove volume and tone knobs; also three cheese-head screws on the underside.



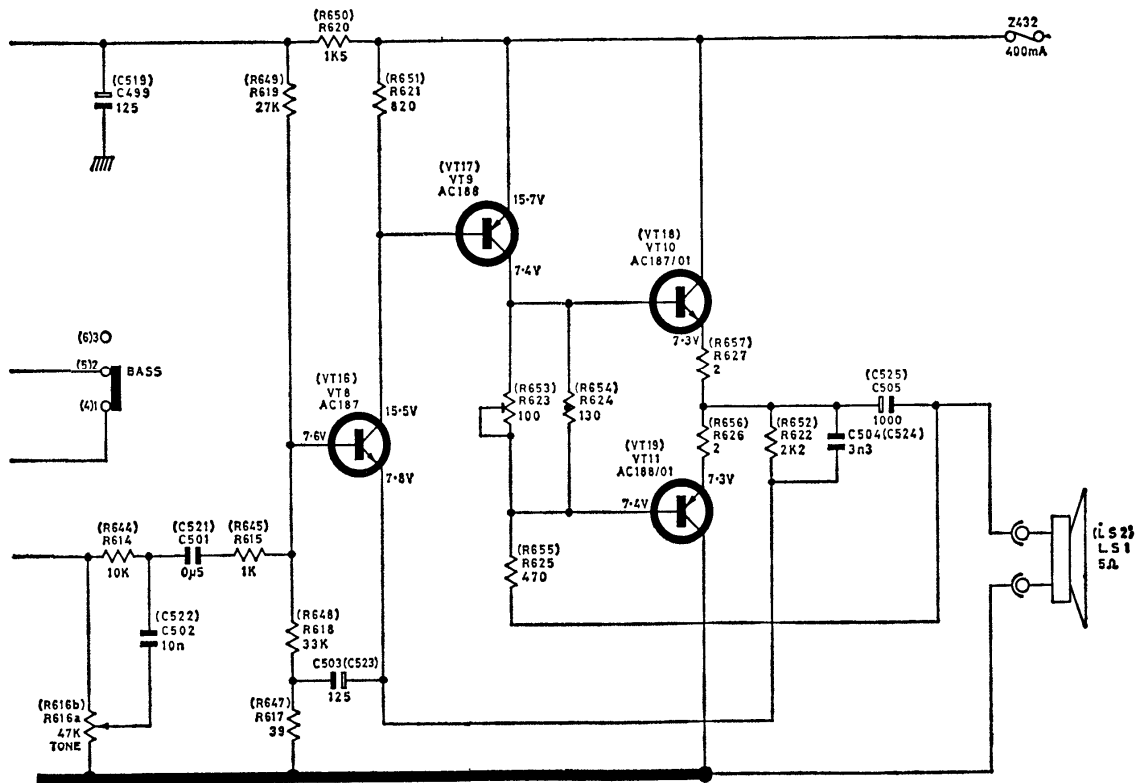
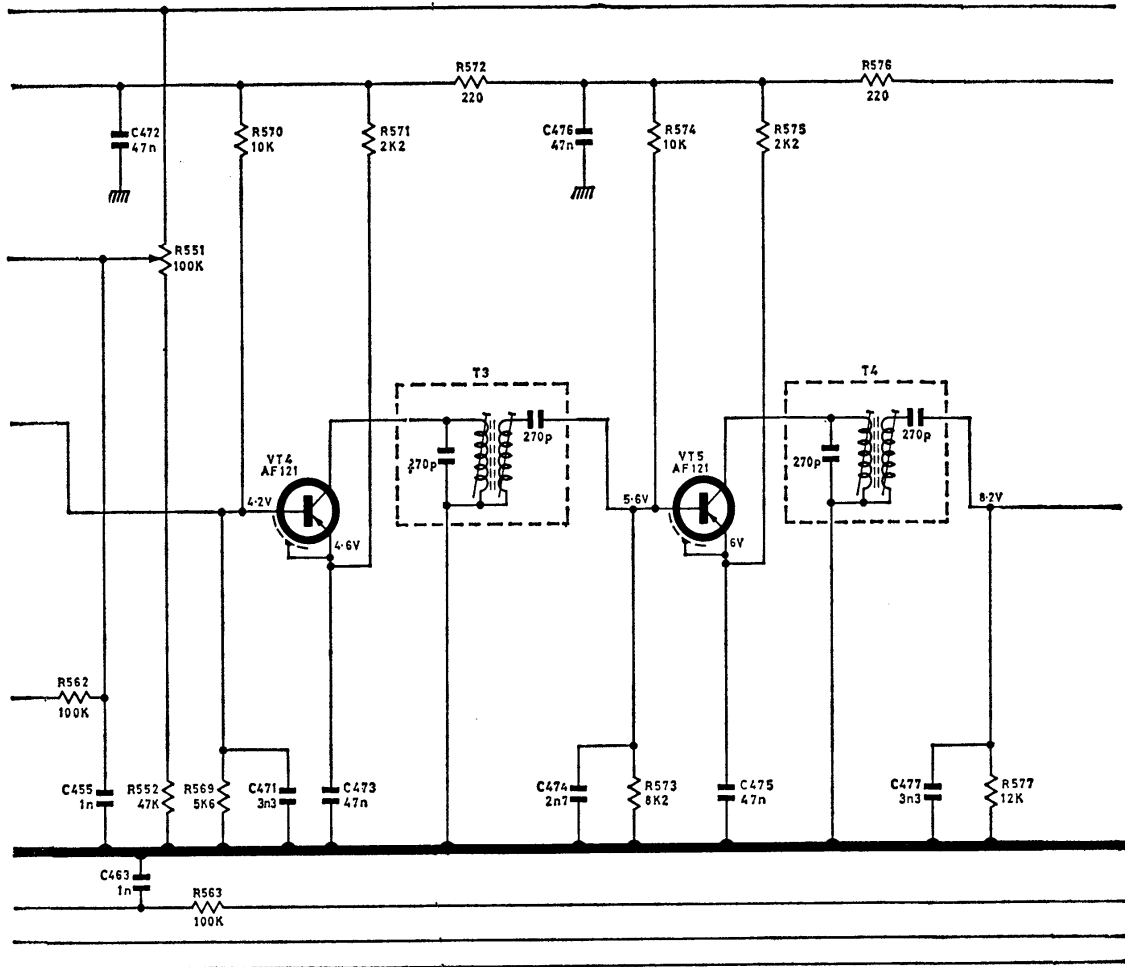
(W293) COMPONENT LAYOUT—MODEL SRG607

RADIO SERVICING



W294a

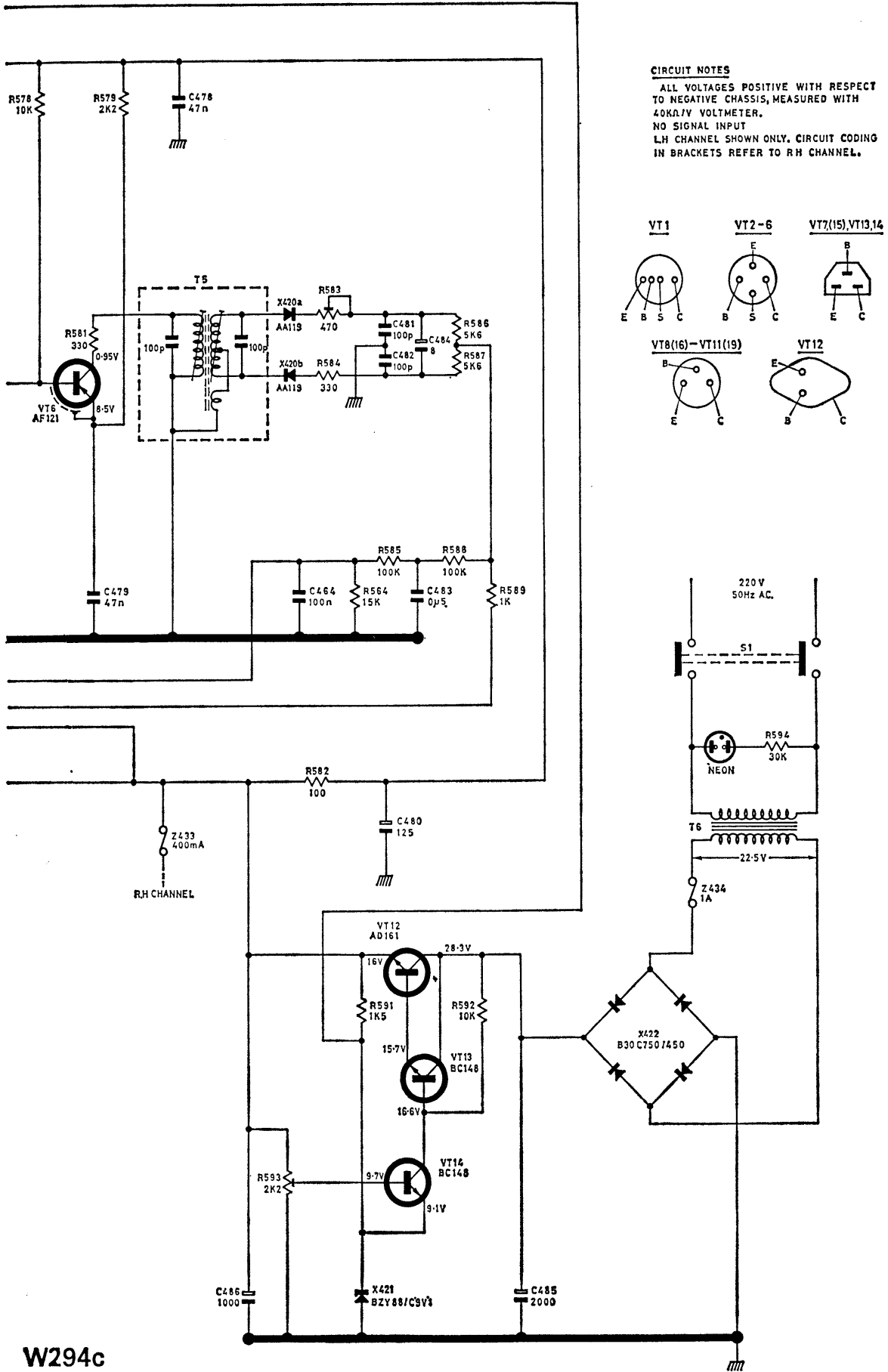
(W294a) CIRCUIT DIAGRAM—MODEL SRG607 (PART)



W294b

(W294b) CIRCUIT DIAGRAM—MODEL SRG607 (PART)

RADIO SERVICING



(W294c) CIRCUIT DIAGRAM—MODEL SRG607 (CONTINUED)

Alignment (I.F.): Inject a 30 per cent modulated F.M. signal at VT₁ collector; connect diode voltmeter to junction R 589/Decoder Socket pin 6; set R583 to mid-point and adjust T_{5s} for an output of about 1 volt. Disconnect one end of C₄₈₄ and adjust for maximum output as in the following table.

<i>Apply signal to</i>	<i>Adjust</i>
VT ₆ base	T _{5p}
VT ₅ base	T _{4p} and s
VT ₄ base	T _{3p} and s
VT ₁ collector	T _{2p} and s

Transfer input to VT₆ base and adjust T_{5s} for zero output; then reconnect C₄₈₄. Connect sweep generator to VT₁ collector via 47 nF capacitor. Check for symmetrical curve about 10.85 MHz and re-adjust T_{5s} if necessary. With signal generator (switched to 30 per cent A.M.) to VT₁ collector, adjust R583 for maximum A.M. rejection.

Alignment (R.F.): Apply signal to aerial input and adjust for maximum output in the following order. Whilst carrying out step 1, remove A.F.C. by shorting out C₄₆₄.

<i>Set generator and tuning knob to</i>	<i>Adjust</i>
98 MHz	Trimmers C ₄₆₂ and C ₄₅₆
89 MHz	Cores S ₄₂₆ and S ₄₂₄