



## ALIGNMENT EQUIPMENT

Signal Generator - modulated 400 cps.  
Output Meter - 15 ohm impedance  
Generator Series Capacitor - .1uF Part No.4009-008-20  
Alignment Tool  
Flat metal blade end - Part No.4121-001-01 for I.F.T., R.F.T. and Osc.  
coil iron core adjustment and trimmer capacitor adjustment.

## ALIGNMENT CONDITIONS

Volume Control - maximum setting  
Output Level - 50 milliwatts  
Output Meter  
Connection - to receiver earphone socket. Plug, Part No.7171-015-01 is available for this purpose.  
Supply Voltage - 6V DC. (four 1.5V cells in series).

## INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Remove two screws and prise rear section off cabinet. The receiver chassis does not have to be removed from cabinet for alignment purposes. Fully mesh tuning gang plates and loosen tuning indicator locking screw. Set indicator to low frequency and of travel dial spot then tighten lock screw. Set tuning control to high frequency end of travel. Insert .1uF capacitor in series with generator 'hot' lead.

<u>Oper. No.</u>	<u>Generator Connection</u>	<u>Generator Frequency</u>	<u>Instructions</u>
1	To aerial secondary lead (convertor base).	455Kc/s	Adjust iron core of 3rd IF trans. for max. output.
2	As oper. 1	455Kc/s	Adjust iron core of 2nd IF trans. for max. output.
3	As oper. 1	455Kc/s	Adjust iron core of 1st IF trans. for max. output.
4.	Repeat operations 1, 2 and 3 in same order.		

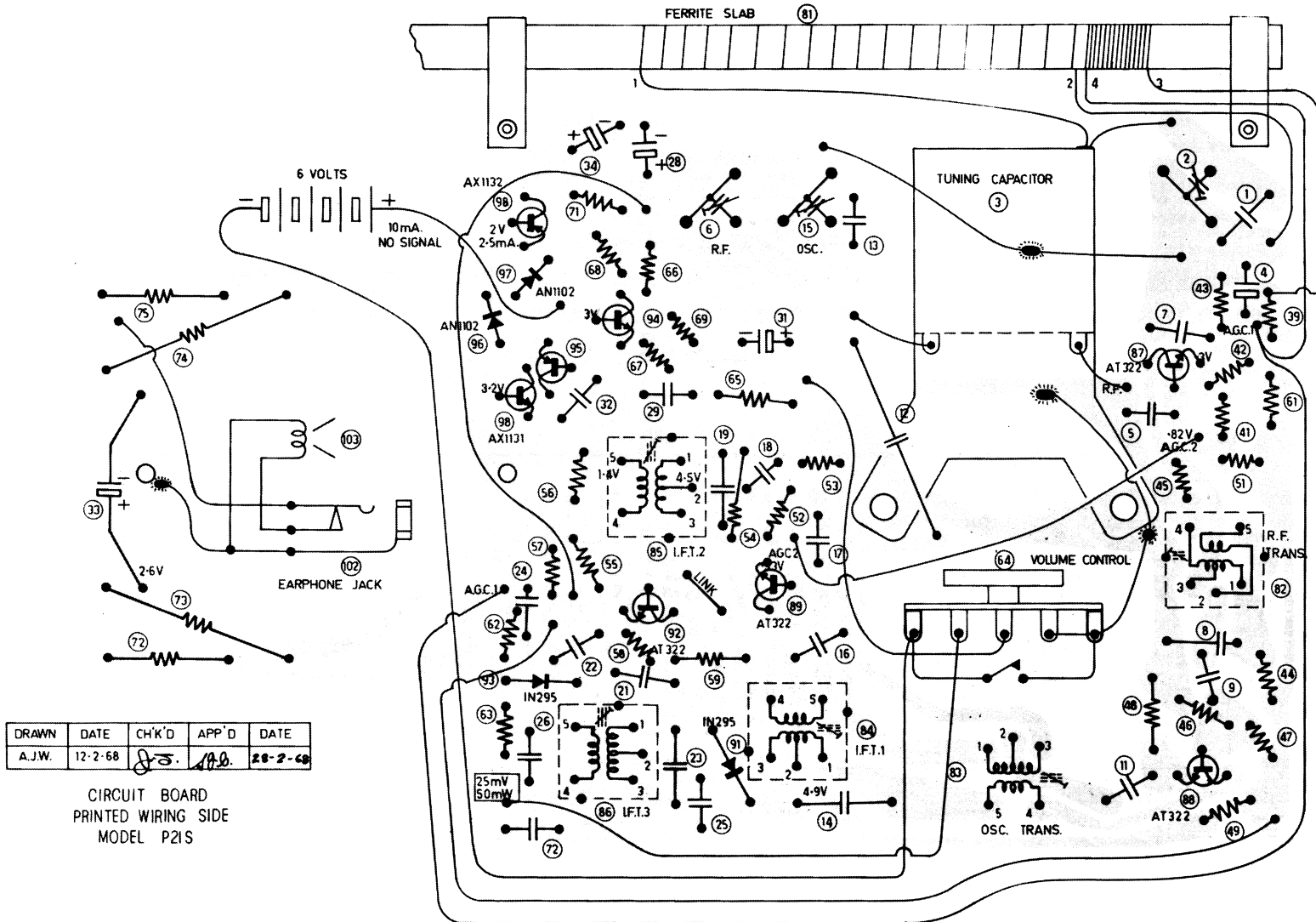
## BROADCAST ALIGNMENT

- A To inject a signal into the receiver connect 2ft. of aerial wire to the 'hot' terminal of signal generator. Fashion wire into a vertical position.
- B Place receiver so that ferrite aerial is uppermost and horizontal. Tuning end of receiver is to be toward but not less than one foot from generator aerial wire.

<u>Oper. No.</u>	<u>Generator Connection</u>	<u>Generator Frequency</u>	<u>Instructions</u>
1	Refer Para. A & B	600Kc/s	Set tuning indicator to 600Kc/s spot on dial. Adjust iron cores of oscillator and R.F. transformer for maximum output whilst rocking tuning gang thru. signal.
2	As oper. 1.	1400Kc/s	Set tuning indicator to 1400Kc/s spot on dial. Adjust oscillator R.F. and Aerial trimmer capacitors for maximum output. Do not rock gang.
3	Repeat operations 1 and 2		
4	Tuning range 525 to 1610Kc/s approx.		

## TUNING INDICATOR DISC SETTING

Loosen disc locking screw, anticlockwise. Rotate the disc for optimum logging of the local stations then securely tighten the lock screw.



DRAWN	DATE	CH'K'D	APP'D	DATE
A.J.W.	12-2-68	<i>[Signature]</i>	<i>[Signature]</i>	28-2-68

CIRCUIT BOARD  
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MODEL P21S