

The standby switch, which is mounted on the receiver proper, opens the negative high tension lead. With the circuit as shown, voltage appears across the first filter condenser even when the high tension is switched off. Another wire in the interconnecting cable from the negative connection of the first filter condenser to the negative side of the back bias circuit could have obviated this condition, but it is hardly worthwhile.

The procedure is quite safe, by

### COIL DATA

PRIMARIES	SECONDARIES
Broadcast Band (Padder 7p. variable)	
Aer. 15T, RF 35T Osc. 25T, wound over earthy and of sec. 1 layer empire cloth insulation.	Aer. & R.F. 90 turns c.w. of 28 SWG enam. Osc. 63 turns CW of 28 SWG enam.
Band 2.85-7.5 Mc. (Padder .001 mfd.)	
Aer. 6T, RF 12T, Osc. 12T spaced 3/32in from earthy end of sec.	Aer and RF 15T, Osc. 14T. All close wound.
Band 5.5-14.5 Mc. (Padder .005 mfd.)	
Aer. 3T (1T interwound), RF 6T (3T interwound), Osc. 5½T (3T interwound).	Aer and RF 7T, Osc 6½T. Spaced to ½in.
Band 13.5-29 Mc. (Padder .01 mfd.)	
Aer 1T (below secondary), RF 2T (1T interwound), Osc. 3½T interwound.	Aer RF and Osc 3½T. Spaced to ½in.

All primaries wound with 32 B & S enamelled. All S.W. secondaries with 19 B & S enamelled. All formers 1½in dia. It may be found difficult to maintain oscillation below 13.5 Mc with the coils for the 13.5-29 Mc band. However, adequate overlap is provided. The 50 pf. bandsread condensers should be low tolerance type.

Alternatively, for broadcast band, use commercial coils with a padder of approx. 425 Pf. For the standard short wave band of 13-42 metres, use commercial coils with a padder of .004 mfd.

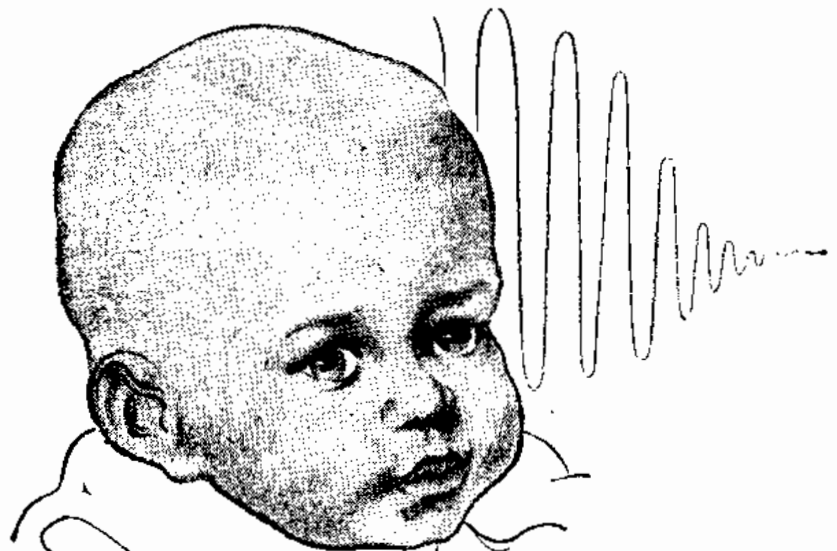
reason of the fact that a 285-volt transformer is used. The peak volts cannot possibly approach the breakdown rating of the condensers.

The circuit would be permissible with a 325-volt transformer but don't try it with a 385-volt type. It would almost certainly lead to a breakdown.

Mechanically, the construction is quite straightforward and should present no difficulties whatever to the experienced constructor. In fact, after the vibrator version, the chassis looks almost bare.

To put the set into operation, a certain amount of experiment and adjustment is necessary. First check

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## BORN to LIVE IN A SOUNDLESS WORLD

Thanks to modern science, infants born without hearing can now take their rightful place in society—to hear and learn to speak as normal individuals.

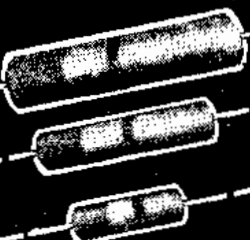
The development of hearing aids for the very young now provides escape for a child who would otherwise been included among the deaf and dumb. A vital component in these tiny "installations" is the resistance—and IRC, famous throughout the world for Resistors for every electrical need, play their competent part.

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