

many correspondents have found better. We, however, had no difficulty with the .001 type.

So far as short-wave work is concerned, it was explained in the first article of the series that the h.f. stage had but little, if any, influence on the amplification of short-wave, and readers were advised if they wished to use the set primarily for short-wave reception to leave out the h.f. stage. The s.g. valve gives a considerable lift on the broadcast wavelength.

The efficiency of the broadcast coils can be appreciably improved by increasing their diameter to 2in. and reducing the number of turns and increasing the diameter of the wire. The construction, then, is rather difficult for those who are not accustomed to construction. However, a turned wooden or ebonite ring to slide over the valve base of an outside diameter to fit within the 2in. former must be prepared, and this requires the use of a lathe.

When using the set for short-wave only, a .0001 double-spaced variable condenser should be used for the tuning and a special h.f. choke must replace the one in the detector circuit. An excellent set may be had by using the detector and two stages of audio.

Another useful addition to the set is a 400 ohms potentiometer. This must be shunted across the filament terminals, and the variable tap taken to the grid return. This will be found to make regeneration very smooth. The detector voltage should be as low as possible consistent with smooth regeneration control.

The potentiometer can quite conveniently be mounted on the baseboard, as once adjusted for a valve and detector voltage it remains unaltered.

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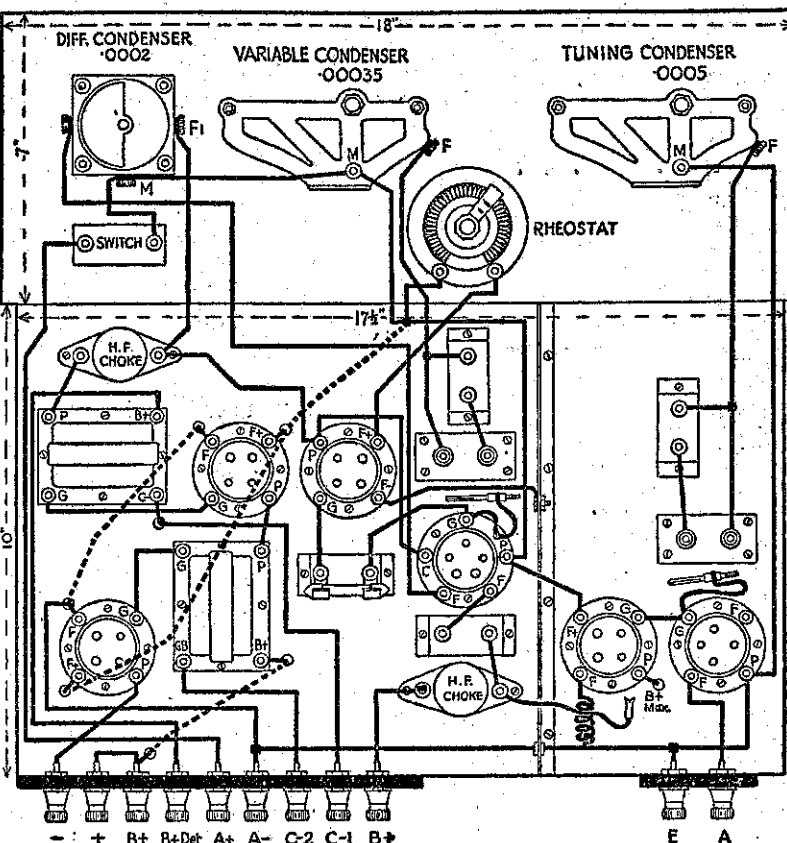
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Radio in China

New Station

THE vice-president of the broadcasting company in Shanghai, China, left recently for the United States to investigate radio facilities and broadcasting equipment with the view of purchasing apparatus for China's first commercial broadcast station. It is to be constructed during the present year.

China's first large broadcasting station is not at all pretentious, for present plans contemplate the use of 1000 watts of power. The official of this Chinese broadcasting company is to visit Europe and England, also, to consult radio engineers regarding facilities most suitable to Shanghai before purchasing the necessary broadcasting apparatus.

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SOUND filters which remove certain overtones without changing the pitch of the human voice recently have been developed in America for the talking pictures, and may also be used in broadcasting. It is claimed that they eliminate certain objectionable nasal qualities and enrich thin voices.

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