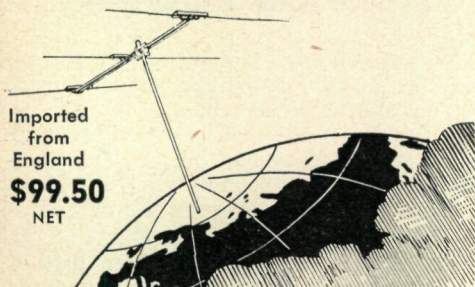


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Receiver Modifications

[from page 26]

circuit shown in fig 5 is merely a guide or example. The important thing is the principle involved which is that of the mixer-type second detector for SSB, not the type of components used.

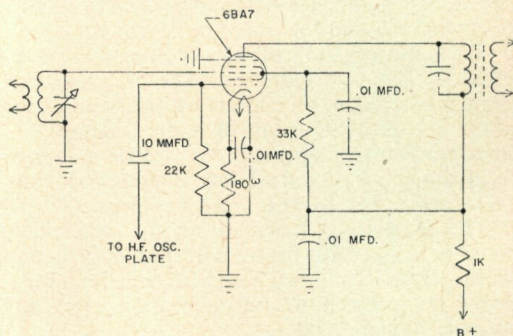


Fig. 5. New H.F. Mixer

In addition to all of the above, in our CR-88A we replaced the 6SG7 second r-f tube and the three 6SG7 i-f tubes with 6BA6's with no circuit changes, which improved the gain somewhat. A further modification which improved operation still more was the substitution of a 6BA7 tube for the h-f mixer. The 6BA7 is a new, improved type of mixer tube, designed for high conversion efficiency and low noise level. The circuit of the new 6BA7 mixer is shown in fig 5. There is nothing tricky about it and circuit values are those recommended in tube manuals. A 9-pin miniature socket is used. Of course, re-alignment of the receiver will be required after all of the above changes.

Conclusion

These modifications greatly enhanced the value of the CR-88A to us, and almost made us forget that it had no calibrated band-spread for amateur use. However, we received much pleasure from SWL-ing, listening to our favorite programs in the evening on AFRTS, the BBC, and WRUL, because English language programs on the local Venezuelan broadcast stations were few and far between. We spent a lot of time monitoring QSO's on the ham bands, though, and heard many calls familiar to us from back home on 14 and 21 mc. The CR-88A with its new tube line-up really dug down into the QRM and pulled them in. One result of these modifications was the inclusion of the 6BK7A triode first r-f stage in a large number of CR-88A's (DR-89A's) which we were installing in Venezuela for international commercial point-to-point service. The improvement in operation was well worth the effort. ■