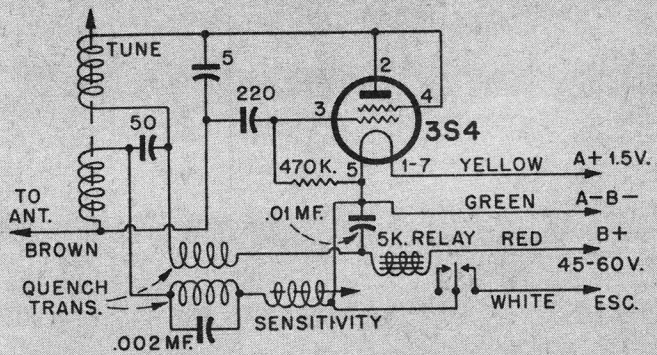


■ This single hard-tuber utilizes a form of sensitivity control not often seen in receivers made in this country, but popular in England. As you will note from the circuit, sensitivity is adjusted by means of a slug-tuned coil, and the frequency control is also of this type.

The entire receiver is contained in a compact aluminum case that comes apart upon removal of two self-tapping screws. This style of case is easy to mount in your model—just cement the bottom to a pad of foam rubber, with the latter cemented to floor or a bulkhead. The two tuning screws project from the top of the case, as does the top half of the tube.

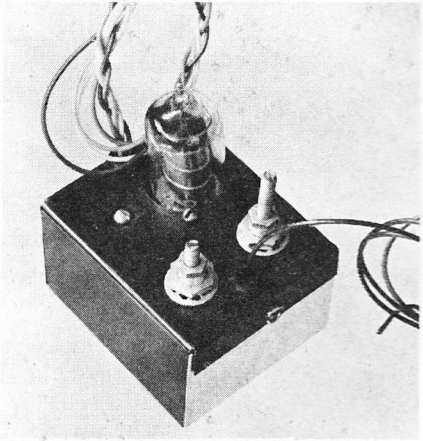
As with all hard tubers, sensitivity adjustment should be checked before using the set; the Sens. screw is turned downward—after loosening the locknut—until the plate current drops abruptly; then turned upward again (counterclockwise) till the current jumps back up. Next it is given another quarter turn in the same direction and locked. Final tuning for frequency setting should be done at least 75 yards from the transmitter.

The instruction sheet emphasizes that all rudder and other metal control linkages should be bonded together to eliminate "static" that might lead to erratic operation (this is a wise precaution with any *hard* tuber). Battery voltages should not be allowed to drop below .1 for the A and 45 V. for the B.

The model S-1B supersedes the Model S-1 and is the same electrically, but the former model was not encased. The makers will convert any of the earlier models to cased type for a small charge, however.

The S-1B is sold either with or with-

H AND M RADIO CONTROLS S-1B RECEIVER



out relay, but comes with tube. The Neomatic relay is fitted to those sets that are sold complete. An accessory kit of all items needed to finish installation in your model (except batteries) is also available.

This receiver may be had direct from the makers, or through Hobby Shops. No kits are available.

Specifications

Receiver Model S-1B. Uses one 3S4 tube. Case size is 2¼ x 1¾ x 1¼" high; tube projects up another 1¼". Weight with tube and relay—2.9 oz. Screw adjustments for tuning and sensitivity. 24" total antenna length recommended.

The four-wire power cable includes escapement leads. 60 V. B supply recommended; will work well on 45 V.

Battery Requirements

On 60 V. B battery, plate current idles at 3.4 ma., drops to 1.5 ma. on moderate signal. On 45 V., current change is from 2.4 to 1.0 on same signal. A battery drain is 100 ma. at 1½ V.

Next issue—don't miss

THE GAZISTOR

by Wells E. Bliss, K2IQL

This home-built radio control receiver utilizes a transistor with a gas tube.