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QST Issue: Mar 1960
Title: Long Antenna for a Short Lot
Author: William Walker, W3NUG

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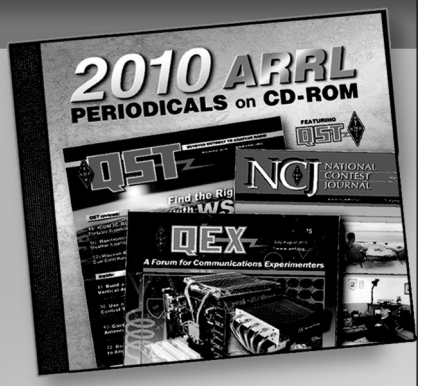

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three holes in the Apache cabinet. The holes should be located so that adjustments can be made from outside the cabinet with the chassis fully assembled. Location of the three holes is shown in Fig. 4. If the diagram is followed exactly, the slotted shafts of the controls will line up in the center of these access holes. The holes can be covered with snap hole plugs available from most radio supply houses. Remember, always make adjustments with an insulated tool or screwdriver.

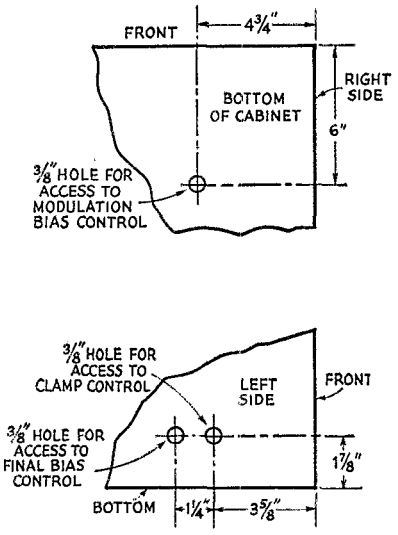

Fig. 4—Dimensions for placement of access holes.

— *Peter H. Shavney, sr., W3FFR*

TAKE-OFF FOR R.F. SAMPLER

ANYONE who is using a coax switch with a spare unused fitting can easily convert the device into an r.f. sampler for feeding a specimen signal into a scope for monitoring purposes. Simply connect a low-value capacitor, about 5 or 10 $\mu\mu$f. for medium-power transmitters, from the center conductor of the unused connector to the center conductor of the input connector. The monitoring device is then connected to the spare fitting.

— *Paul Goldman, K2GKU*

HOOP RULER

BEFORE the hula hoop becomes extinct, every ham should acquire one for his shack since it can be used as a measuring device for finding the dimensions of lots for that rhombic or for measuring actual antenna wire. Roll the hoop along the ground and record the number of revolutions. Merely multiply the number of revolutions by the circumference of the hoop to find the distance.

— *Frank Andrews, W3MRZ*

LONG ANTENNA FOR A SHORT LOT

MANY amateurs don't operate on the lower frequencies because the size of a city lot does not permit the erection of suitable antennas. The antenna described here permits operation on 80 meters even though space may be limited.

Fig. 5A shows the physical arrangement of the antenna. A wire 67 feet long extends from a pole (my pole is 25 feet high) to a connection on the antenna tuner. A second wire, also connected to the tuner, drops from the shack to a pair of stakes where it is supported a foot or so above the ground. This second wire, of some random length, is positioned directly under the top wire.

The circuit for this antenna arrangement is shown in Fig. 5B. Capacitor C_1 resonates the antenna to the desired operating frequency while the inductance L_1 acts as a loading coil to compensate for the shortage in length of the lower wire. It also provides a means of coupling the antenna system to the transmitter. For operation on 40 meters the antenna should be connected as shown in Fig. 5C. Capacitor C_1 should have a plate spacing similar to that of the plate tank capacitor in the transmitter.

— *William G. Walker, W3NUG*

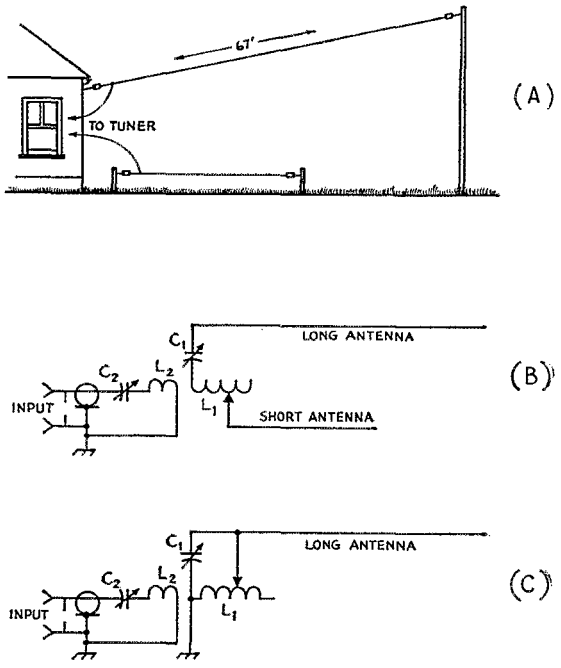

Fig. 5—A—W3NUG's low frequency antenna; B—circuit of the antenna tuner for 80 meters; C—circuit of the antenna tuner for 40 meters.