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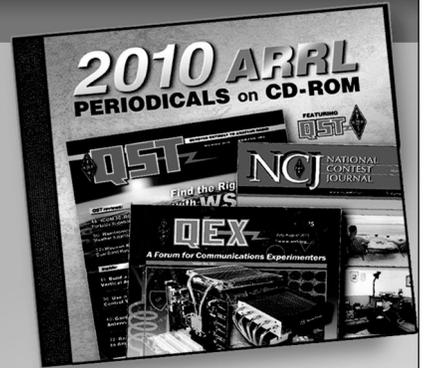
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QST Issue: May 1969

Title: New Gain Control for the HW-12

Author: Jay O'Brien, W6GDO

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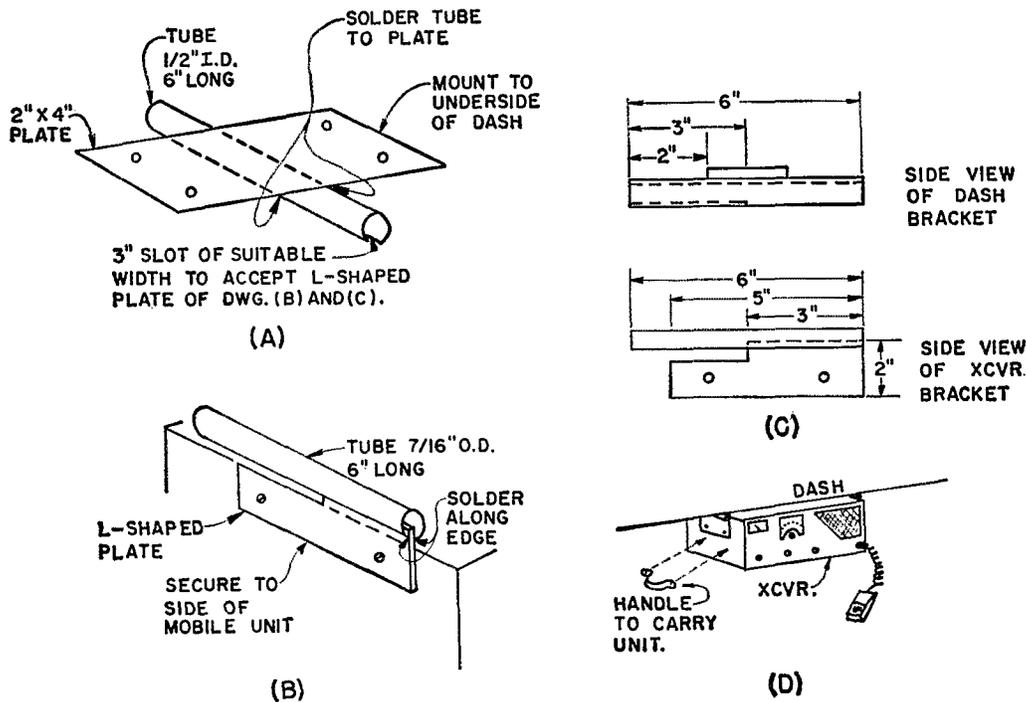


Fig. 2—Details of the mobile mount. Four brackets are needed: two copies of the one shown in drawing A and two copies of the one shown in drawing B. Drawing C shows a side view of the bracket, and drawing D shows how a typical installation looks after a transceiver has been slid in place under the dash. For ease in soldering, copper or brass tubes and plates should be used to construct the mount.

MOBILE MOUNT

I LIKE to use the same transceiver in my car and at home. In order to quickly and easily install the rig in the car or remove it from the vehicle, I devised the mobile mount shown in Fig. 2. With this arrangement, for mobile operation it is only necessary to slide the rig into place once the feed line and power cable have been connected. — *E. McIvor*

NEW GAIN CONTROL FOR THE HW-12

USING a Heath HW-12 transceiver in my car, I found it impossible to communicate with other mobiles that were less than a few blocks away. Even with the r.f. gain control set at minimum, nearby stations overloaded the receiver. Analysis of the circuit showed that extremely strong signals should be handled successfully if the r.f. gain control was moved from the mixer and installed before the grid of the first r.f. stage. The following changes, which were suggested by W6TEE, have proven to be effective, and the modified circuit is not critical to operate.

First remove the existing r.f. gain control from the HW-12. Then tie together the three leads

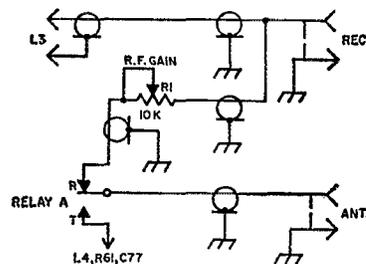


Fig. 3—Modified portion of the HW-12 for greater control of the receiver gain. R₁ is a 10,000-ohm control with a linear taper.

that were removed from the old control. This is the same as turning the old control fully on. Next install a 1000-ohm potentiometer in the location of the former r.f. gain control. Disconnect the coaxial cable from the receive terminal of the antenna relay and, as shown in Fig. 3, connect the new control between this cable and the relay. The difference in overload capabilities will amaze you. — *Jay O'Brien, W6GDO* (The current HW-12A uses a different r.f. gain control circuit and consequently has better overload capabilities. — *Editor*)