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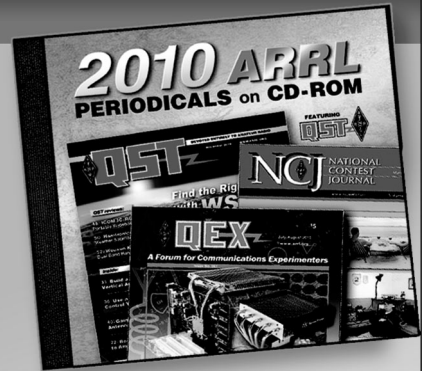
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QST Issue: Jan 1973

Title: Using the Heath SB650 with other than Heath Transceivers

Author: Dave Windisch, K3BHJ

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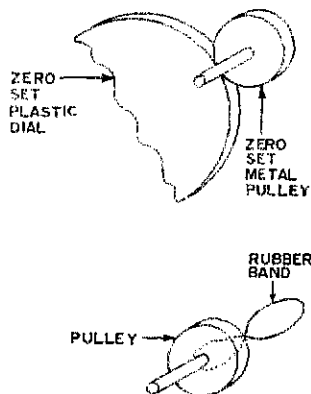
Hints and Kinks

For the Experimenter

INCREASING THE FRICTION IN WORN PULLEY GRIPS

In the Heath SB-301, and similar equipment, there is a split-ring pulley that moves a zero-set dial by means of friction. After a time, the pulley wears enough of the plastic from the dial that the oscillator cannot be set to zero for frequency calibration.

One way that I've found to remedy the situation cheaply and easily is to loop a rubber band around the inside of the pulley (several times) and build up the contact area so that the zero-set dial will make contact with the rubber on the pulley in place of rubbing on the metallic sides of the latter. I've made this change on all my equipment and find that it works very well. — Dennis G. Eksten, W9DDI.

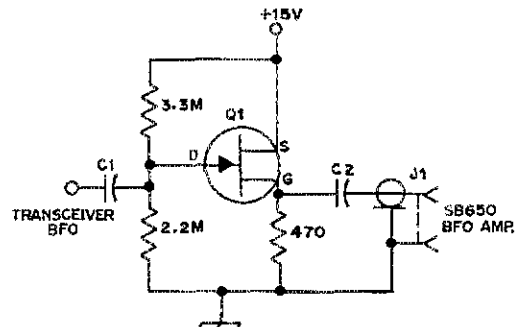


The rubber band is shown being looped around the pulley several times to build up the center so that it makes contact with the driven dial.

USING THE HEATH SB650 WITH OTHER THAN HEATH TRANSCEIVERS

Because the various oscillators in the Drake 4-line, Yaesu FT transceivers, and Collins S-line have the proper relationship (first LO above the signal, second oscillator below the first i-f) the Heath SB650 digital readout unit may be connected to them directly with the following changes: on the BFO input of the SB650, change the coupling (47 pF) and bypass (.001-μF) capacitors to a low value of reactance at the BFO frequency. For instance, in the Drake R-4B and Collins 7583, the capacitors should be changed to a 0.1-μF disk ceramic. The output should be taken from a low-impedance point such as the cathodes or emitters of the oscillators. If for some reason

this is not possible, a source follower, similar to the one shown here, may provide the proper amount of isolation. — Dave Windisch, K3BHJ



- C1 — Selected for a reactance of approximately 25,000 ohms at lowest operating frequency.
- C2 — Selected for approximately 25-ohms at lowest operating frequency.
- Q1 — 2N3819, HEP801, HEP802, MPF102.
- J1 — Phono jack.

PREVENTING MOBILE ANTENNA SWAY

It wasn't very long after going mobile that I had to solve the problem of antenna detuning because of antenna sway while in motion. As many before me have done, a piece of nylon cord tied to the luggage rack eliminated the leaning backward of my Webster Bandspanner. But sideways motion caused operating problems.

