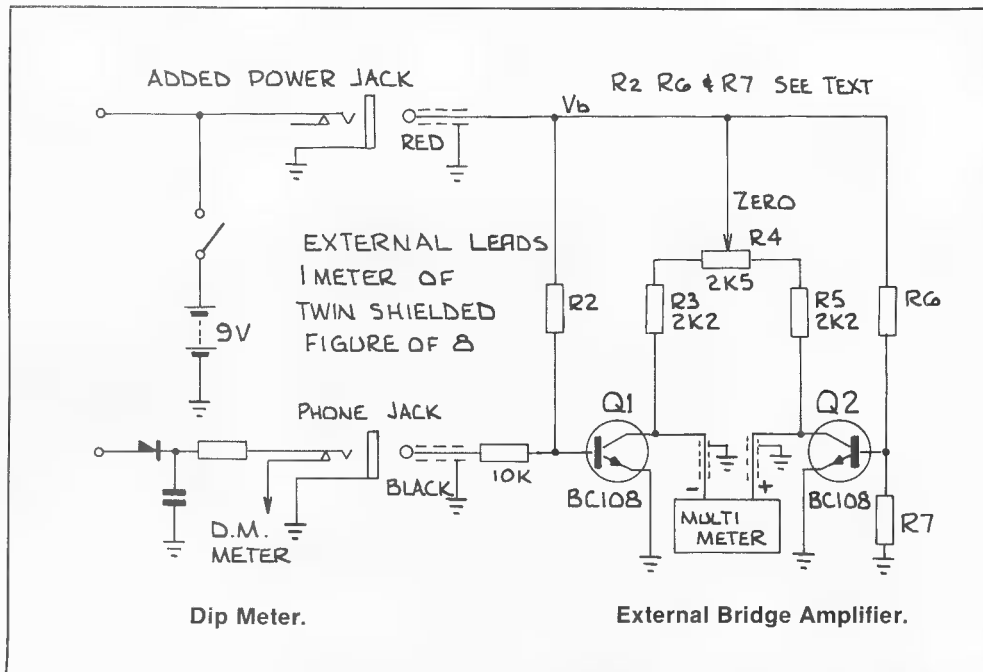


INCREASING THE SENSITIVITY OF TRIO DIP METER DM-800

P J Grigg VK3APG
Lot 44 Glenburn Street, Newcomb Vic 3219



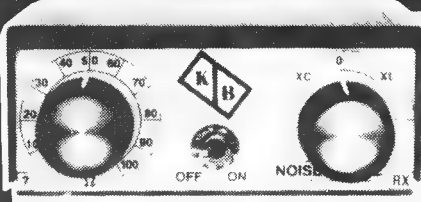
With some circuits the dip on the Trio DM-800 was found to be only just perceptible. It was much improved by the addition of the following differential amplifier. The amplifier was built into a separate small metal box, suitably spray painted and labelled with rub down lettering. The only modification to the dip meter itself was the addition of a 3.5 mm jack, to supply 9 volts to the amplifier.

DIP METER

Remove the metal cover on the phone jack side and enlarge the nearby cover fixing screw hole to match that of the phone jack. Drill a corresponding screw hole on the chassis to accommodate a 3.5 mm jack. Fit the jack, wire to the positive 9 volt rail and test. Re-locate the cover fixing screw a little lower, towards the edge of the chassis and replace the cover.

AMPLIFIER

Build up the circuit except for R2, R6 and R7 and connect to dip meter; turn power on, set sensitivity at minimum and R4 to mid range. Select R2 so that $Q1 V_c = 1/3$ to $2/3$ of V_b . Make R6 the same as R2 and select R7 so that $Q2 V_c$ is very close to that of Q1. Now connect a multimeter to bridge (on a suitable low volts range). Zero the meter and increase dip meter sensitivity for a convenient reading. The device is now ready for use. To use the DM-800 as a wave meter, disconnect the amplifier plugs.




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