

Instructions for Use of WD 11 Tubes in Crosley Radio Sets

From our experience the WD 11 dry cell tube operates at its best efficiency on about 40 volt "B" battery, either as a detector or amplifier. This tube is not as critical on "B" battery voltage as storage battery tubes. Increased volume will be noted from 22½ volts up to about 40 volts.

We do not recommend the use of more than 40 volts on any of these tubes, either as detector or amplifier, on account of the possibility that there is danger of the shortening of the life of the tube, causing it to become soft, as can be noted by the bluish light between the plate and grid.

On any of the Crosley sets, therefore, the "B" batteries should be hooked up with the black negative wire or negative "B" wire binding post to the negative end of the "B" battery. The positive red or terminal "B" battery binding post or binding posts should be connected to 40 volts.

On the two, three and four tube Crosley Tuned Radio Frequency sets, connect both positive "B" battery terminals, or the positive binding posts marked 22½ and 45 volts should both be connected to the positive "B" battery at 40 volts.

On the WD 11 dry cell tube, the "A" battery voltage should never exceed 1½ volts. Figure one No. 6 dry cell to each tube. Where more than one tube is used, be sure to connect the dry cells in parallel, not in series; in other words, connect all of the zinc or negative terminals of the dry cells together, and all of the positive or carbon terminals together before running wires to the receiving set. Do not under any conditions, when using more than one dry cell, connect carbon to zinc, etc., in series.

If you use more than 1½ volts on these tubes, you will burn them out very quickly. If properly used, the dry cell tubes will give approximately the same results as the storage battery tubes. Under some conditions the volume may not be quite so loud, but the advantages of the elimination of storage battery are very great.

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