





## Instructions for Tri-Tube Tester

1. Make sure your storage battery is well charged. If using dry cells be sure they are quite fresh. Your B Batteries must also be in good condition, testing at least 35 volts each. The above battery condition is necessary for proper operation of your set as well as the Tri-Tube Tester.
2. Remove all tubes from set. It is advisable to do this, so that the tubes which are not being tested, will not draw battery current.
3. Turn rheostats of set all the way on.
4. **IF YOUR TUBES** have "X" bases (long prongs).  
Insert plug on end of cord into adapter, (which looks like base of tube), and insert adapter into any socket of set except detector socket. The adapter will fit only one way.  
**IF YOUR TUBES** are UV-199 or C-299 type.  
Insert adapter into socket on tester, and insert plug on end of cord into any socket of set except detector socket.  
**IF YOUR TUBES** are 201A type (short prongs on base).  
Insert plug on end of cord into adapter and insert adapter into any socket of set except Detector Socket.
5. Insert a tube into socket on tester. **Be sure** that the pin on side of base of tube is **directly above** the **arrow** on socket of tester, otherwise the tube may be **burnt out**. Tubes with UX base cannot be inserted incorrectly. The little indicating lamp on the base of the tester will glow. Now move the plug on end of cord from one socket to another in set and leave where the indicating lamp on tester glows brightest.
6. Now turn the rheostat of your radio set to the left until only a faint red glow is shown in indicating lamp of tester. Try each of your tubes in tester and note which one makes the indicating lamp glow brightest. The brighter the lamp glows the better the tube. If the lamp does not glow at all or only very dimly with rheostat on full and well charged A Battery and good B Battery, the tube is worn out or defective and should be rejuvenated or replaced. Even perfect new tubes will probably not all give the same brilliancy, but a slight difference does not mean that the tube is not good. When testing dry cell tubes, do not expect the lamp to glow as brightly as with storage battery tubes.
7. The tubes which cause the indicating lamp to glow brightest should be used in the radio frequency stages or detector; the others should be used in the audio stages.  
If test is being made in either the Radiola Model 28 or 30, place tester plug with UX Adapter, in any of the following sockets, Nos. 3, 5, 7 and 8.  
If indicating lamp is broken, same can be purchased at any electrical store for 15c. Size of lamp G. E. No. 11—3.3 volts.

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