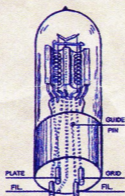


# The New 2 in 1 A-P TUBES



## OPERATING DATA

Filament Volts	-	-	-	5.0
Filament Amperes	-	-	-	0.25
Plate Volts	-	-	-	40 to 200

This tube is of the New A-P "Two-in-One" construction. It has two filaments, two grids and two plates. The grids and plates are connected within the tube and function as one unit. A special lead is brought out from the center of the two filaments and is connected to the shell of the base.

**CAUTION**—Do not use the tube in any circuit where the tube socket is grounded or otherwise connected.

Should one filament burn out, the life of the tube may be restored by connecting the shell with the peg to which the burned out filament is connected and operate the rheostat with a little more of the resistance in the circuit.

By short circuiting the two pegs on the base or the binding posts on the tube socket, and using the shell as the return lead terminal, the two filaments are in parallel and the tube will function on two volts "A Battery."

To use this tube on an alternating current supply, a transformer of the proper design is necessary to give the right voltage and amperage for the number of tubes used. There should be a neutral or no voltage tap brought out from the transformer and connected to the shell of the base. This will materially reduce the residual hum of the alternating current. This can be improved a great deal by inserting such coils and condensers as might be desirable in the receiving circuit.

This type of tube is especially adapted for Radio frequency amplification and reflex circuits. It has a high amplification constant. To get best results use a high "B" battery. This tube is not easily overloaded and will stand well over 150 volts on the plate.

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