

RCA-Radiotron

UX-201-A

RATING

Filament - 5.0 Volts - - - .25 Amperes
Plate - - - { 90 Volts for General Amplification
135 Volts Maximum

USE

Radiotron UX-201-A is a General Purpose Storage Battery tube. While it operates as either detector or amplifier, it is particularly recommended for Radio Frequency stages and for the first Audio Frequency stage of Amplification.

MOUNTING

The Large Standard "UX" Base of this Radiotron will fit both the new "Push Type" and old "Navy Type" sockets. The Radiotron should preferably be mounted in a vertical position. The detector socket in particular should be cushioned. As certain sockets are so constructed that the plate contact may touch a filament prong of the tube, it is recommended that the "B" Battery be disconnected *before inserting or removing the Radiotron.*

FILAMENT

The conventional 6 volt storage battery is generally used as an "A" battery to heat the filament of this tube. The Battery Setting (Filament Rheostat), which controls the filament voltage, should be kept as low as possible consistent with normal results, since low filament voltage increases the life of both Radiotrons and Batteries. *The Filament Voltage should never be allowed to exceed the rated value of 5.0 volts.*

Many receivers are provided with connections for a voltmeter by means of which the voltage of the Radiotron filaments may be kept under constant observation. Such a meter is particularly recommended if it is of high grade and high resistance.

DETECTION

Plate Voltage ("B" Battery) - - - - 45 Volts
Grid Leak Resistance - - - - 2-9 Megohms

Normally a low resistance grid leak gives best quality of reproduction and most stable operation. For weak signals, however, a high resistance grid leak usually gives greater response. Critical adjustment of neither grid leak nor plate voltage is required.

For detailed detector connections refer to Fig's 1 and 2.

AMPLIFICATION

Plate Voltage ("B" Battery) - 90 - - 135 Max
Grid Voltage ("C" Battery) - -4½ - - -9

A plate voltage of 90, preferably used with a negative grid bias of 4½ volts, should not be exceeded for Radio Frequency and is recommended for the first Audio Frequency stage. A Power Amplifier Radiotron is recommended in the last stage for best loudspeaker results.

If, however, Radiotron UX-201-A is used in the last stage, 135 volts may be applied to the plate and 9 volts to the grid. A voltage exceeding the maximum of 135 volts should never be applied to the plate of this Radiotron, nor should this plate voltage be used without a negative grid bias of 9 volts as supplied by a "C" Battery.

For detailed amplifier connections refer to Fig's 1 and 3.

RADIOTRON QUALITY AND SERVICE

Every Radiotron is subjected to rigid tests and