



## WESTERN ELECTRIC 216-A VACUUM TUBES

LICENSED FOR USE ONLY AS A PART OF THE  
WESTERN ELECTRIC LOUD SPEAKING TELEPHONE OUTFIT

### OPERATING INSTRUCTIONS—IMPORTANT

THIS TUBE IS SUITABLE FOR USE WITH THE WESTERN ELECTRIC LOUD SPEAKING TELEPHONE OUTFIT. THE FILAMENT IS DESIGNED TO SECURE THE NECESSARY ELECTRON EMISSION WITH LOW FILAMENT TEMPERATURE. THIS FEATURE INSURES UNDER NORMAL OPERATING CONDITIONS LONG LIFE AND MINIMUM FILAMENT POWER CONSUMPTION. THE NORMAL FILAMENT CURRENT IS OBTAINED WITH A POTENTIAL OF 6 VOLTS AT THE TERMINALS OF THE AMPLIFIER. WITH NORMAL CURRENT THE FILAMENT SHOULD GLOW DULL RED. WHEN PLACING A TUBE IN CIRCUIT MAKE SURE THAT THE BATTERY POTENTIAL DOES NOT EXCEED THE VALUE SPECIFIED ABOVE.

UNDER NO CIRCUMSTANCES SHOULD THE FILAMENT POTENTIAL BE SUCH AS TO CAUSE THE FILAMENT TO GLOW BRIGHTLY.

NORMAL FILAMENT VOLTAGE	— 6 VOLTS
NORMAL PLATE CURRENT	— 7 TO 9 MILLIAMPERES
NORMAL PLATE VOLTAGE	— 100 TO 130 VOLTS
NORMAL PLATE CIRCUIT IMPEDANCE	— 4000 TO 6000 OHMS
VOLTAGE AMPLIFICATION CONSTANT	— 5 TO 6