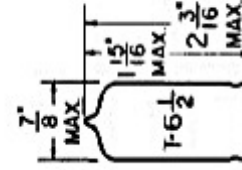


TUNG-SOL**DOUBLE TRIODE**

MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

HEATER



GLASS BULB

SERIES

12.6 VOLTS
150 MA.

PARALLEL

6.3 VOLTS
300 MA.BOTTOM VIEW
SMALL BUTTON
9 PIN BASE
9A

AC OR DC

FOR 12.6 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PINS #4 AND #5. FOR 6.3 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PIN #9 AND PINS #4 AND #5 CONNECTED TOGETHER.

WHEN OPERATING FROM AN AC HEATER SUPPLY, DO NOT USE THE 12.6 VOLT CONNECTION IF LOW-FREQ CAPABILITIES ARE TO BE REALIZED.

ANY MOUNTING POSITION

THE 12AY7 COMBINES TWO INDEPENDENT MEDIUM- μ INDIRECTLY HEATED CATHODE TYPE TRIODES IN THE SMALL 9 PIN BUTTON MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE IN HIGH GAIN AUDIO AMPLIFIER SERVICE WHERE PARTICULAR ATTENTION IS PAID TO MICROPHONICS, HUM, AND OTHER SOURCES OF INTERNAL NOISE.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
 WITH NO EXTERNAL SHIELD

EACH UNIT	μ MF
1.3	μ MF
1.3	μ MF
0.6	μ MF

GRID TO PLATE: (G TO P)

INPUT: G TO (H+K)

OUTPUT: P TO (H+K)

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	EACH TRIODE UNIT	VOLTS
MAXIMUM DC HEATER-CATHODE VOLTAGE	12.6	6.3
MAXIMUM PLATE DISSIPATION	90	1.5
MAXIMUM CATHODE CURRENT	10	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
 CLASS A AMPLIFIER

	EACH TRIODE UNIT	OHMS
HEATER VOLTAGE	12.6	
HEATER CURRENT	150	
PLATE VOLTAGE	250	
GRID VOLTAGE	-4	
PLATE CURRENT	3	
TRANSCONDUCTANCE	1	
AMPLIFICATION FACTOR	750	
PLATE RESISTANCE (APPROX.)	44	
	25 000	

CONTINUED ON FOLLOWING PAGE

CONTINUED FROM PRECEDING PAGE

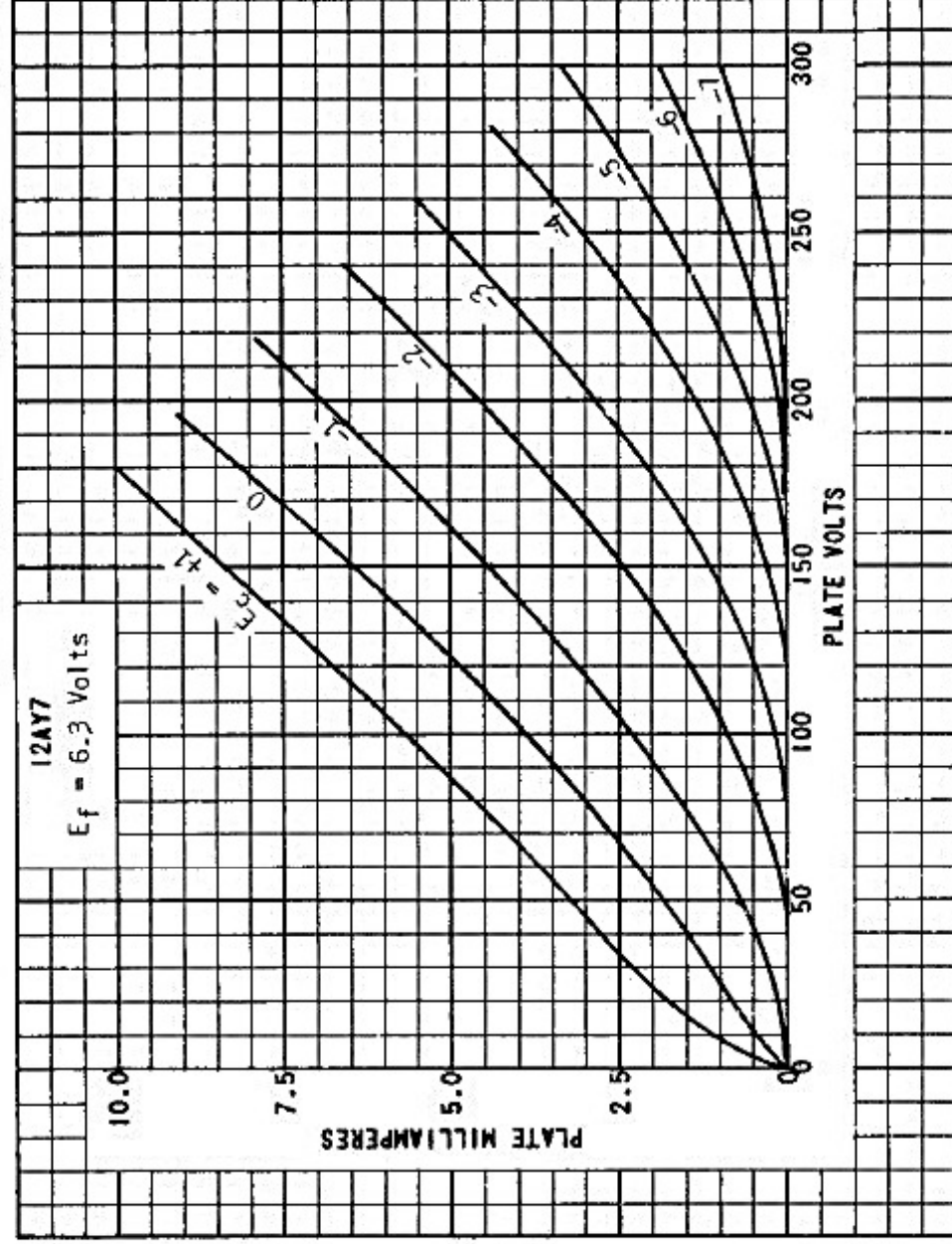
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

LOW LEVEL AMPLIFIER SERVICE

	EACH TRIODE SECTION
HEATER VOLTAGE ^A	6.3 VOLTS
HEATER CURRENT	300 MA.
HEATER SUPPLY VOLTAGE	150 VOLTS
PLATE LOAD RESISTOR	20 000 OHMS
CATHODE RESISTOR	2 700 OHMS
CATHODE CAPACITOR	40 μ f
GRID RESISTOR	0.1 MEGOHM
VOLTAGE GAIN	12.5

^A PIN NUMBER 9 CONNECTED TO NEGATIVE B SUPPLY.

→ INDICATES A CHANGE OR ADDITION



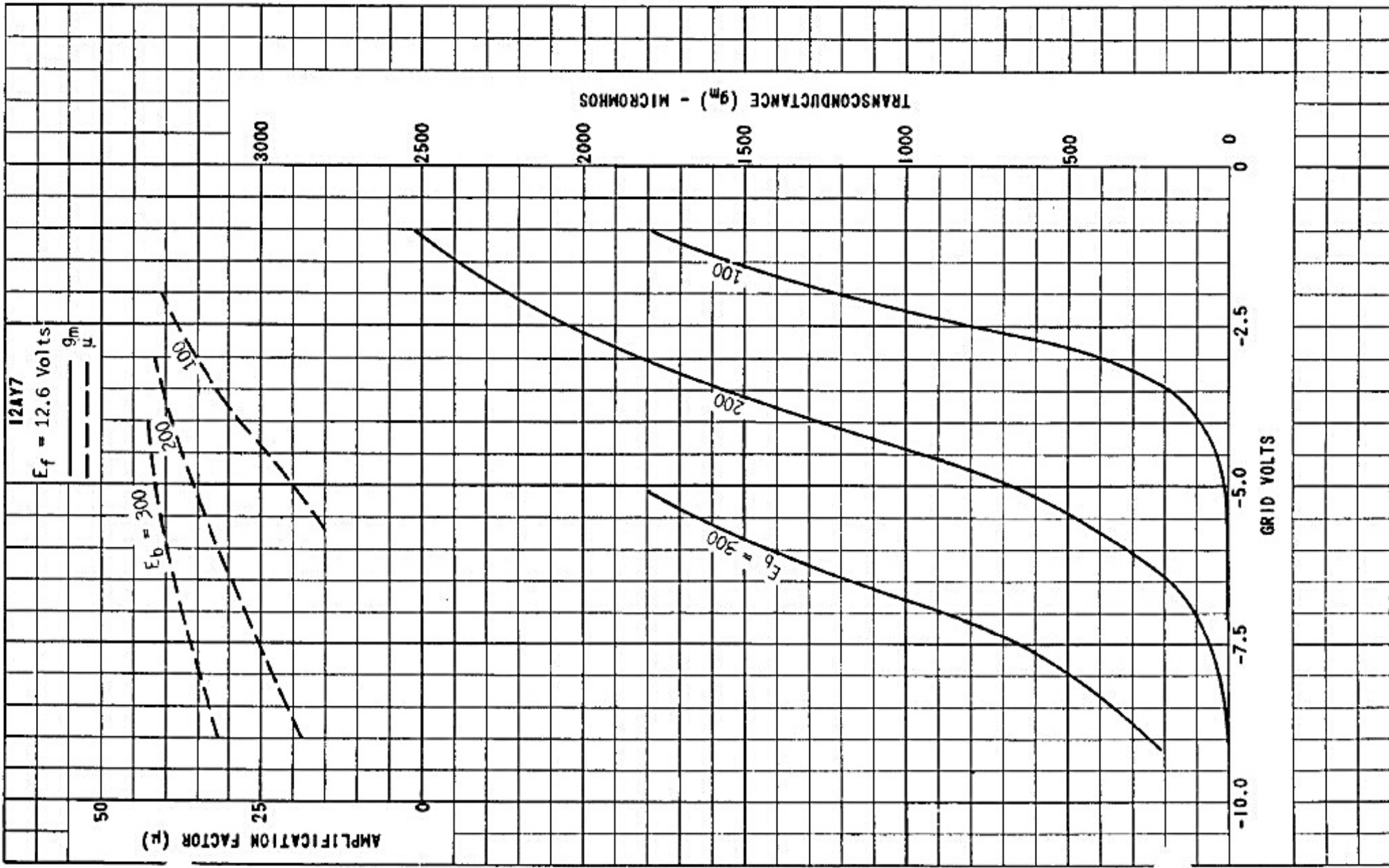


PLATE 2170
APR. 1, 1949