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THYRATRON

MERCURY-VAPOR TETRODE

DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage.	5.5 [□]	5.0	volts
Current.	5.0 [□]	4.5	amp

Cathode:

Minimum Heating Time, prior to tube conduction	5	minutes
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Direct Interelectrode Capacitances (Approx.):

Grid No.1 to Anode	0.2	μ mf
Grid No.1 to Cathode	4.4	μ mf

Ionization Time (Approx.)	10	μ sec
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Deionization Time (Approx.)	1000	μ sec
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Anode Voltage Drop (Approx.)	16	volts
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Grid-No.1 Control Ratio (Approx.) with grid-No.1 resistor (ohms) = 0; grid-No.1 and grid-No.2 volts = 0 . . .	170
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Grid-No.2 Control Ratio (Approx.) with grid-No.1 resistor (ohms) = 0; grid-No.1 and grid-No.2 volts = 0 . . .	300
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Mechanical:

Mounting Position.	Vertical, Base Down
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Overall Length	7-11/16" $\pm$ 1/4"
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Seated Length.	7-1/16" $\pm$ 1/4"
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Greatest Radius.	2-1/4"
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Bulb	ST-23
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Caps (Two)	Medium
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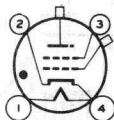
Base	Medium-Shell Small 4-Pin, Bayonet
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Basing Designation for BOTTOM VIEW	4CD
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Pin 1-Heater

Pin 2-Cathode;
Circuit
Returns

Pin 3-Grid No.2



Pin 4-Heater,
Cathode

Top Cap - Anode

Side Cap - Grid No.1

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:

Forward.	1000 max.	volts
Inverse.	1000 max.	volts

GRID-No.2 (SHIELD-GRID) VOLTAGE:

Before Conduction.	-300 max.	volts
During Conduction.	-5 max.	volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Before Conduction.	-1000 max.	volts
During Conduction.	-10 max.	volts

CATHODE CURRENT:

Peak	30 max. [□]	15 max.	amp
Average**	0.5 max. [□]	2.5 max.	amp
Fault, for 0.1 sec. maximum.		200 max.	amp

□ **: See next page.

← Indicates a change.

MARCH 1, 1951

TUBE DEPARTMENT

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



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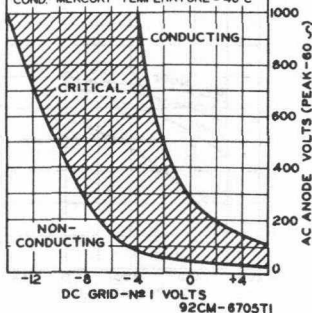
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OPERATIONAL RANGE
OF CRITICAL GRID VOLTAGE

TYPE 5560

RANGE IS FOR CONDITIONS WHERE:
 $E_f = 5$ VOLTS AC $\pm 5\%$; GRID-Nº 2 (SHIELD)
 VOLTS = 0; CIRCUIT RETURNS TO PIN Nº
 2. THE RANGE INCLUDES INITIAL AND
 LIFE VARIATIONS OF INDIVIDUAL TUBES,
 AS WELL AS CHANGE IN CHARACTERIS-
 TICS DUE TO HEATER PHASING.
 GRID-Nº 1 RESISTOR (OHMS) = 0
 COND.-MERCURY TEMPERATURE = 40°C

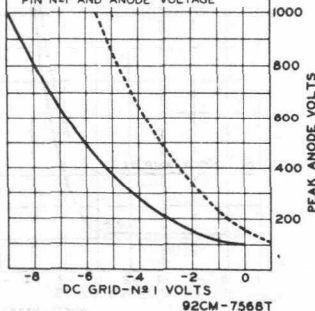
SHIFT OF AVERAGE
CONTROL CHARACTERISTIC
WITH CHANGE IN HEATER PHASING

TYPE 5560

$E_f = 5$ VOLTS AC
 GRID-Nº 2 (SHIELD) VOLTS = 0
 CONDENSED-MERCURY TEMPERATURE = 40°C
 GRID-Nº 1 RESISTOR (OHMS) = 0

CURVE	PHASE ANGLE DEGREES *	CIRCUIT RETURN
—	180°	PIN Nº2
- - -	0°	PIN Nº2

* BETWEEN HEATER VOLTAGE AT
 PIN Nº1 AND ANODE VOLTAGE



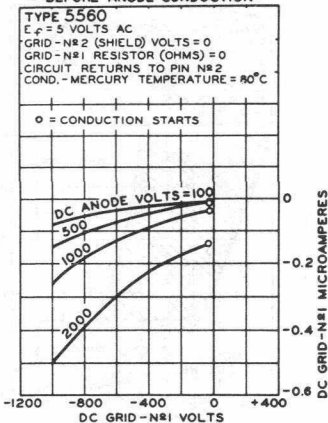
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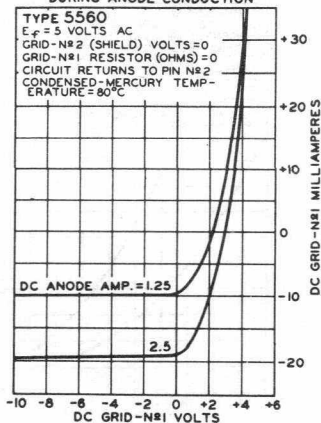
THYRATRON

AVERAGE GRID CHARACTERISTICS BEFORE ANODE CONDUCTION



92CM-7556T

AVERAGE GRID CHARACTERISTICS DURING ANODE CONDUCTION



92CM-7570T

MARCH 1, 1951

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CE-7556T-7570T