

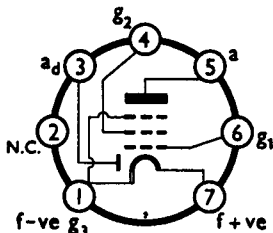


**MINIATURE
DIODE-PENTODE
1.4V DIRECTLY HEATED**

ZD17

MAY, 1953

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside
of base.

Base : B7G
Bulb : Tubular.

Overall length : 49—55 mm.
Seated length : 43—49 mm.
Max. diameter : 19 mm.

RATING

Pentode connection :

V_f	1.4	V
I_f	50 approx.	mA
V_a	90 max.	V
V_{g2}	90 max.	V
I_k	3 max.	mA
r_a	} at $V_a = V_{2g} = 67.5$, $V_{g1} = 0$ {	0.6
g_m		0.63
		MΩ mA/V

Triode connection :

$V_{a, g2}$	90 max.	V
I_k	3 max.	mA
μ	} at $V_a = g_2 = 67.5$, $V_{g1} = 0$ {	14
r_a		17.5
g_m	0.8	kΩ mA/V

TYPICAL OPERATION

Pentode connection :

V_{ab}	45	67.5	90	V
V_{g2b}	45	67.5	90	V
V_{g1}	0	0	0	V
R_a	0.5—1	0.5—1	0.5—1	MΩ
R_{b-g2}	$R_a \times 5$	$R_a \times 5$	$R_a \times 5$	MΩ
R_{g1-k}	10	10	10	MΩ
V_{gain}	30	40	50	

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CAPACITANCES (of cold unshielded valve)

c_{gl-a}	2.2	pF		c_{a-a}	2.4	pF		c_{gl-a}	0.2	pF
c_{d-gl}	0.5	pF		c_{d-a}	0.45	pF		c_{d-f}	1.4	pF

FILAMENT OPERATION

When operating the filament from a mains supply, the voltage should be adjusted to 1.3 or the current to 47.5 mA mean. Under certain conditions, a suitable shunt resistor will be required.

SCREENING

No internal or external screening is fitted to the valve.

MOUNTING

Any position.

RETAINING

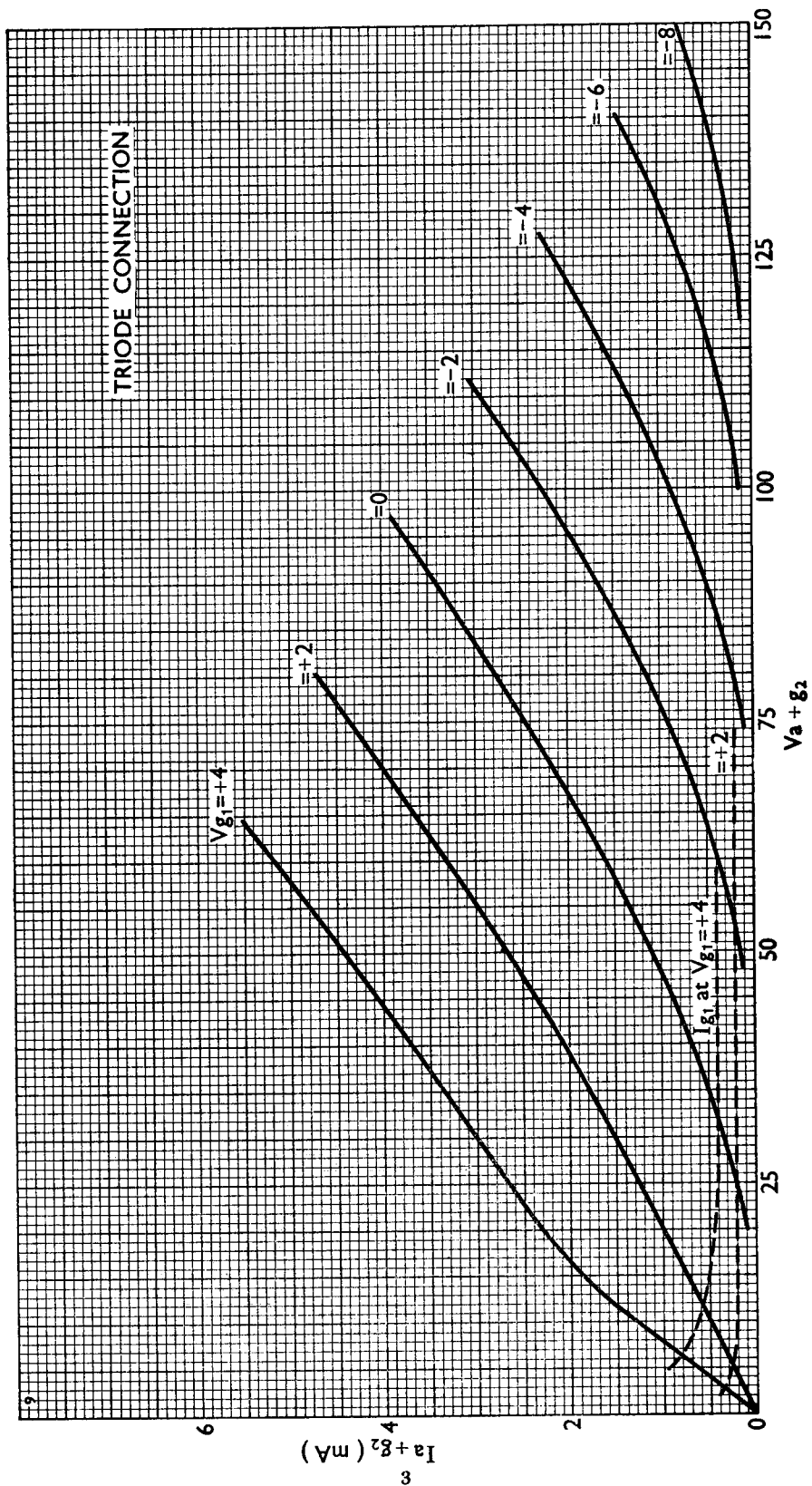
A retaining device should be used.

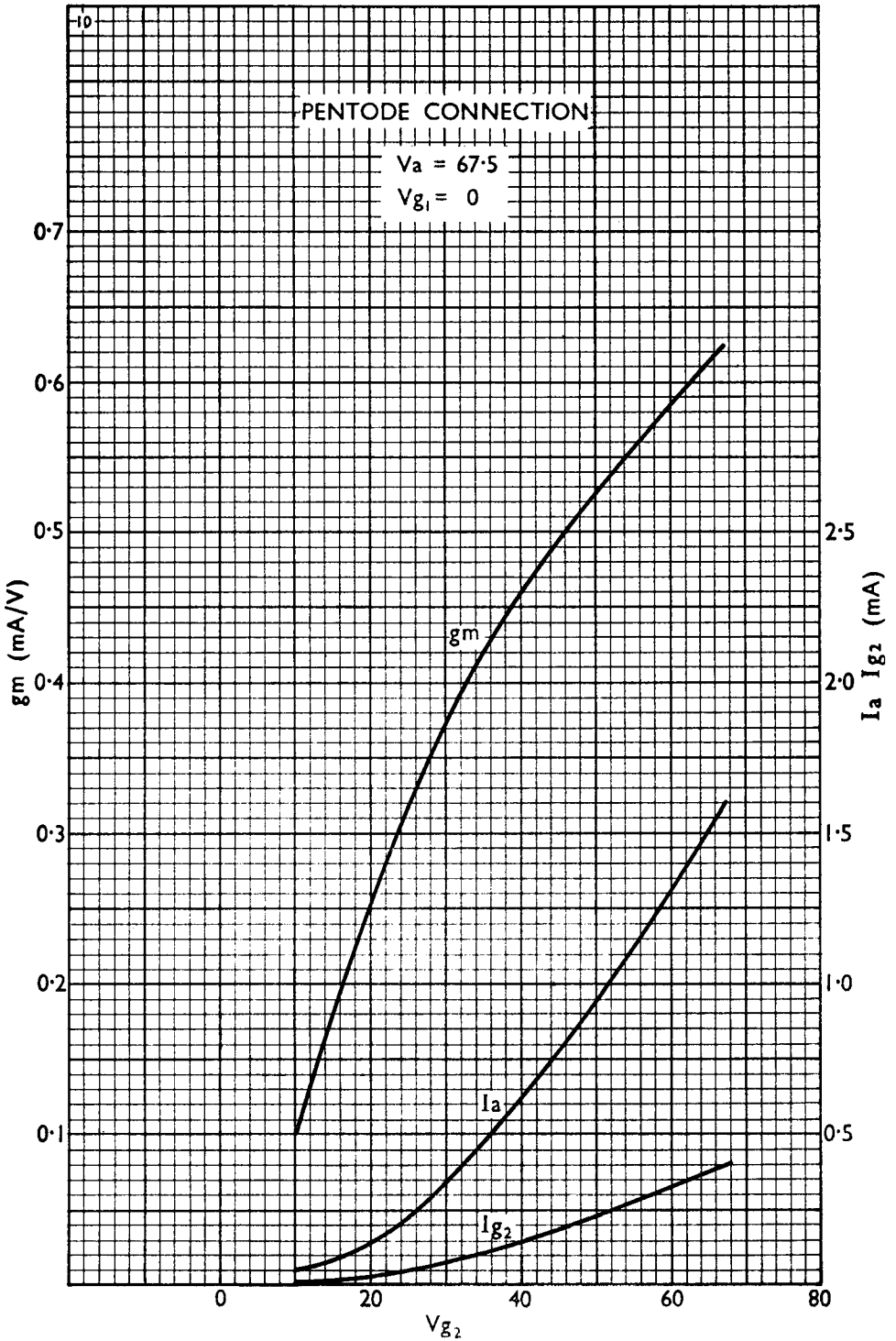
VENTILATION

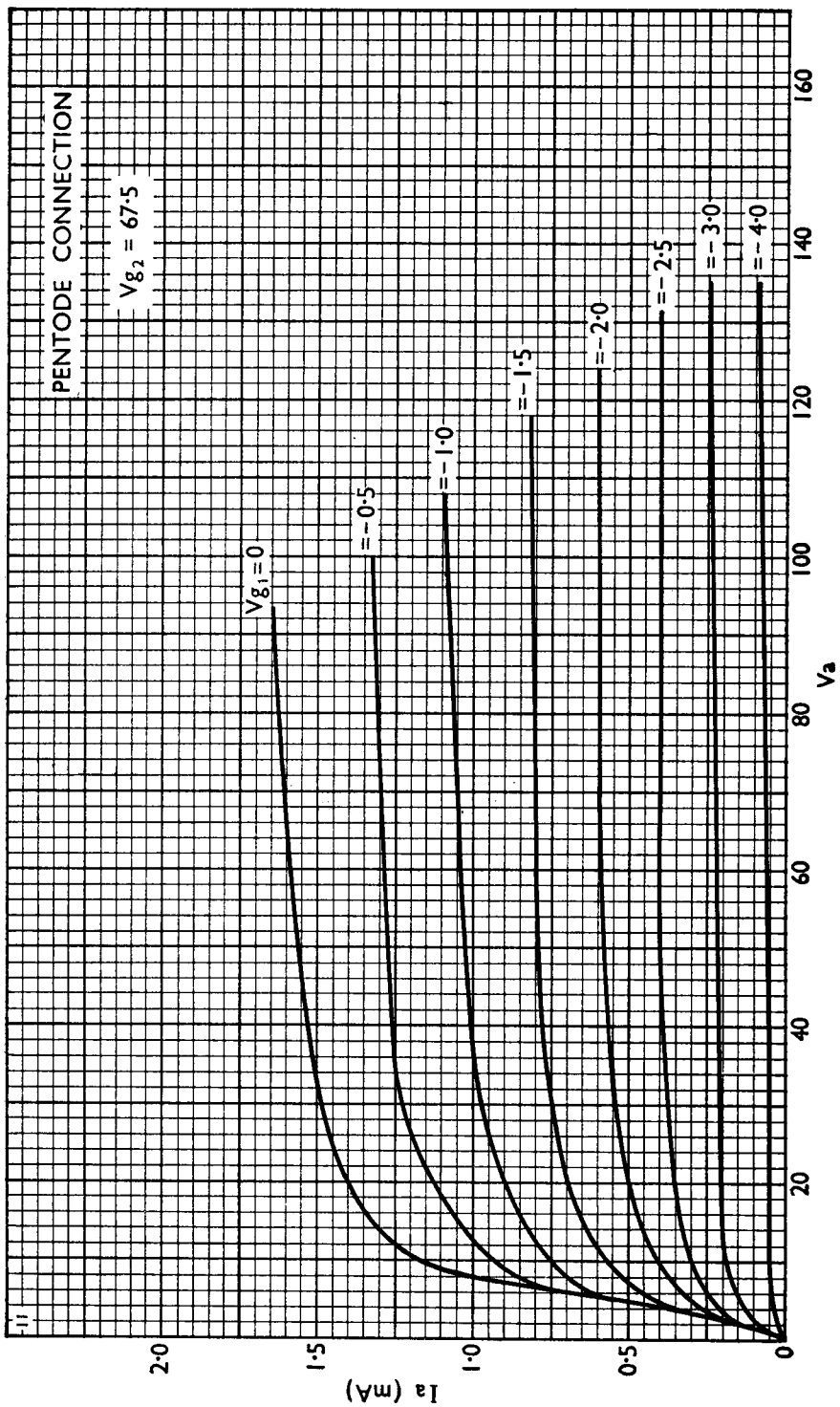
No special precautions are necessary.

MICROPHONY

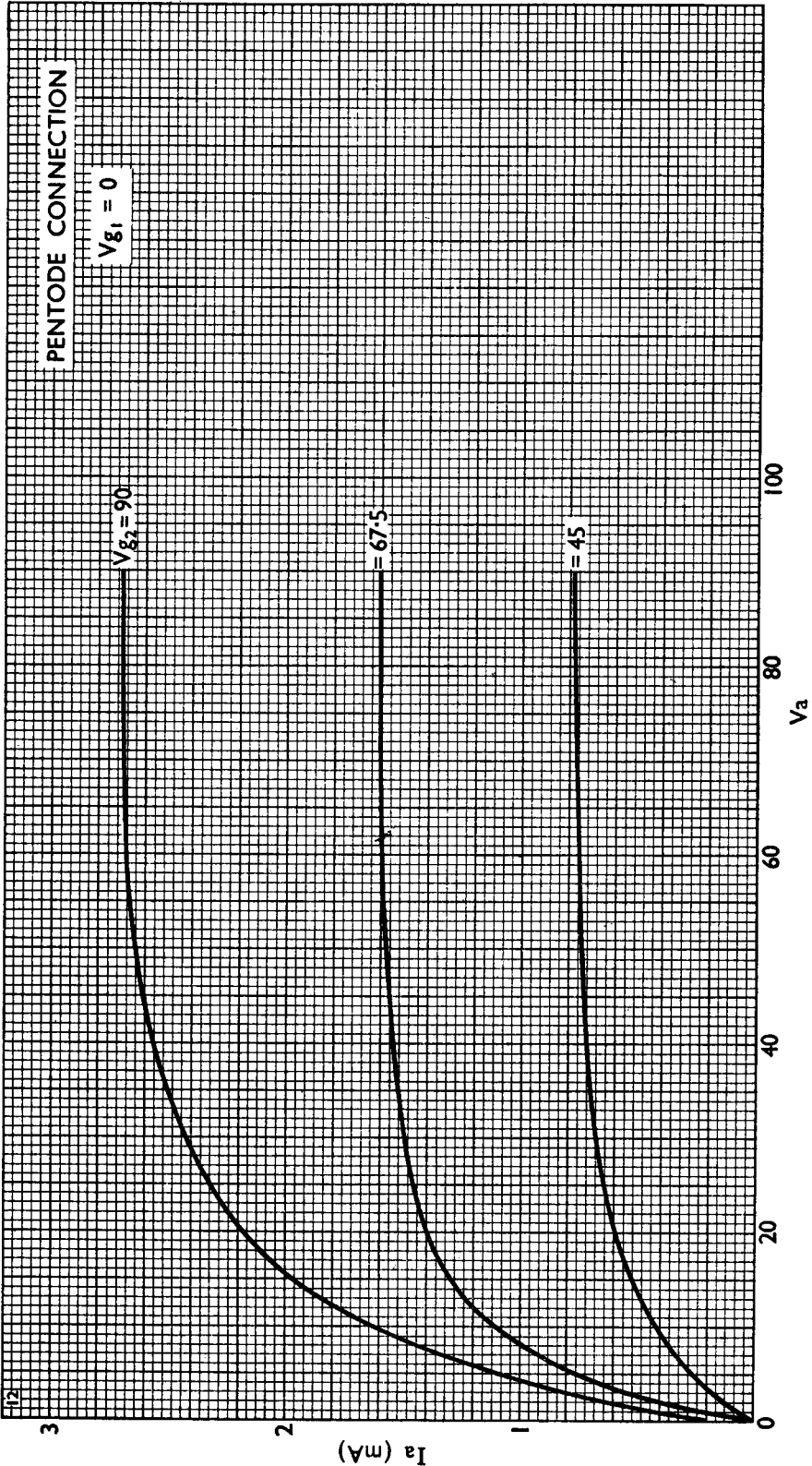
Although this is of a very low order, equipment should be designed to minimise microphony.

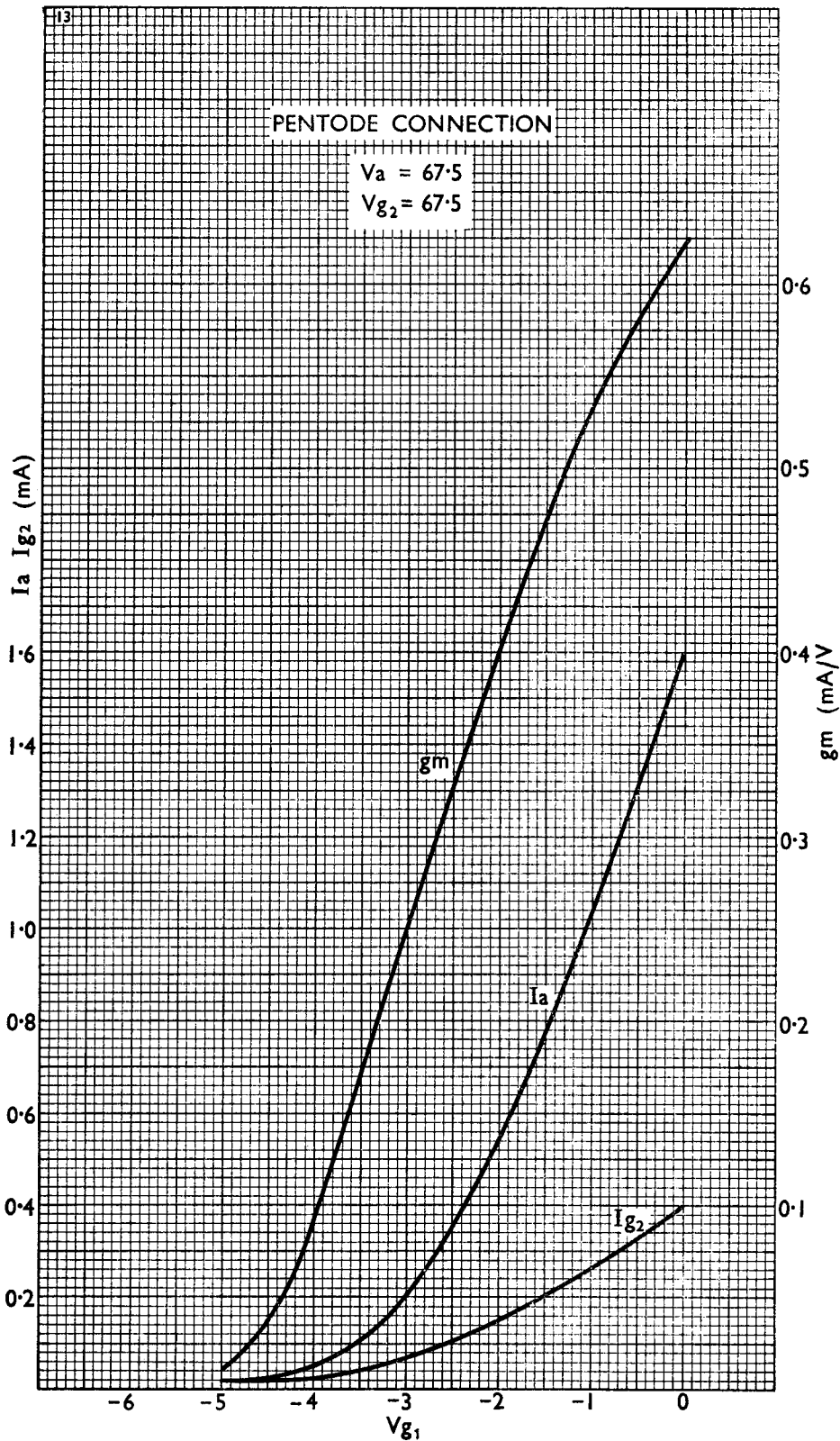






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