

A.C. MAINS TRIODE

KATING.										
Heater Voltage							4.0			
Heater Current (amps	.)						1.0			
Maximum Anode Voltage							200			
Maximum Anode Curi	0					12				
*Mutual Conductance (mA/V)							3			
*Amplification Factor		•••					35			
				•••		•••				
*Anode A.C. Resistance	e (onms)		•••	•••	•••	•••	11,700			
*At Ea-100 v.; Eg=0.										
OPERATION.										
Anode Voltage		100			150		200			
Bias (Anode-bend							200			
Detector)	—3 to	-4.5		-3 to		_4·5 r	o7·5			
Bias (Amplifier)							:o4·5			
(1 3 10		J (0			
INTER-ELECTRODE CAPACITIES. Clear Metallised										
*Anode to Earth	•••	•••	•••		7.0	11.	5 μμΕ.			
*Grid to Earth		• • • •		•••	7 ∙0	8.	0 µµF.			
Anode to Grid		•••	•••		3.5	3.2	5 μμF.			
*'' Earth '' denotes t metallising joined to	he rema cathode.	ining	earthy	poter	ntial ele	ctroc	les and			

DIMENSIONS.

Maximum Overall Length	•••	 		113 mm.
Maximum Diameter		 •••	•••	45 mm.

GENERAL.

DATING

The AC/HL is an indirectly-heated triode for A.C. mains operation. It has a high amplification factor as well as a low anode A.C. resistance, and is suitable for use in any position in the set with the exception of the last or output stage. The valve is available with clear or metallised bulb. The valve is fitted with a standard 5-pin base, the connections to which are given overleaf.

APPLICATION.

Detector.

The valve will be found very suitable for use as a cumulative-grid detector; it has a particularly high-detection efficiency coupled with low damping. A condenser of 0.0001 to 0.0002 micro-farad with a grid leak of I to 2 megohms will be found suitable.

This valve is especially suitable for use as a power-grid detector, a condenser of 0.0001 μ F., and a leak of 100,000 to 250,000 ohms being required. The anode voltage should be at least 100 volts. With either type of detection the grid return should be connected to the cathode.

The low impedance of this valve makes it particularly suitable for use as an anode-bend detector.

Amplifier.

The valve may be used as a low-frequency amplifier with either transformer, choke, or resistance-capacity coupling. With resistance-capacity

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coupling an anode resistance of 50,000 to 100,000 ohms will be found suitable.

When using transformer or choke coupling the primary inductance need not be excessively high.

In the case of the metallised valve care should be taken to ensure that the cathode is connected to earth either directly or through a noninductive condenser.

BASING.



Pin No. I. Anode.

- 2. Control Grid.
- 3. Heater.
- 4. Heater.
- 5. Cathode and Metallising.

Viewed from the free end of the base.



Mazda Radio Valves are manufactured in Great Britain for the British Thomson-Houston Co. Ltd., London and Rugby.