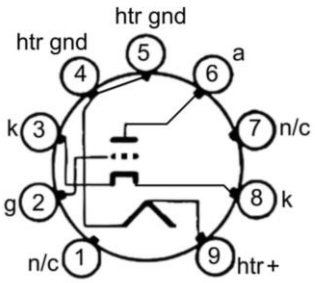
Current Equipment Type

TYPE: **6072M (12AY7)** B9A LOW-NOISE AUDIO TRIODE

The Phædrus Audio 6072M is designed as a upgrade replacement for the 6072 (and 12AY7) tubes used in a variety of vintage and contemporary microphones: see technical specification below. For more information and enquiries, email sales@phaedrus-audio.com.

The Phædrus Audio 6072M Supertube™ matches the dimensions of the original tube and is supplied as a standard B9A device.



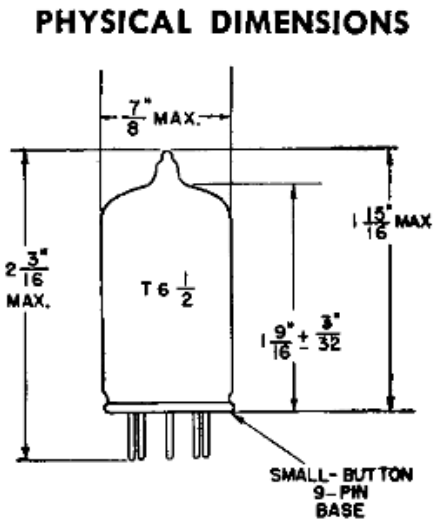
6072M pinout (from below)

The Phædrus Audio 6072M is a single triode device: the second triode (present in the original tube envelope but not normally used) is not available. By careful selection of pinout, the Phædrus Audio 6072 features universal, straightforward One Touch™ installation (see below).

6072M Supertube™ Technical Specifications

Recommended operating conditions

Heater voltage (current): 6.3V (150mA)
Anode load: Typically, 100k
HT Supply: 120V (nominal)
Grid circuit: ≈ 30MΩ – 250MΩ
Cathode circuit: Supports grid or cathode biasing.



EIA 6-2

Notes (see applications diagram):

1. Only one half of 12V heater is present. Pins 4 and 5 are common. Heater voltage should be applied to pin 9 and either 4 or 5 should be grounded. Polarity of heater supply MUST be respected. Pin 9 must be positive of pin 4 or pin 5. Note that the 6072M heater current is slightly lower than one half of the original GL6072 tube; equivalent to half a standard 12AY7 tube which is 150mA at 6.3V. 12V heater mode NOT supported.

2. Cathode connections can remain undisturbed in all installations. In new applications, ground k.

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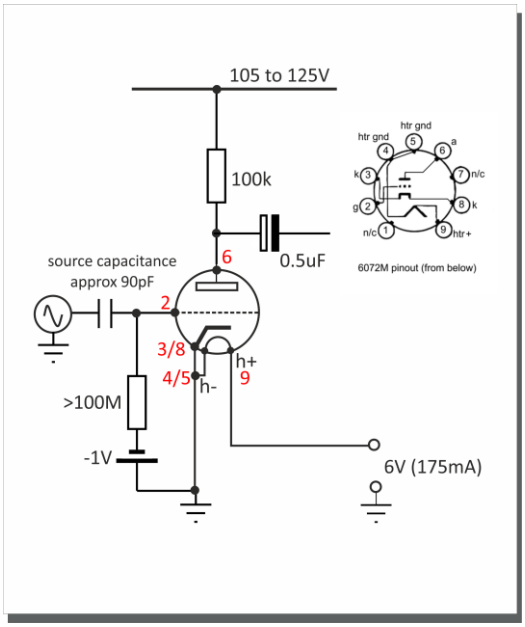
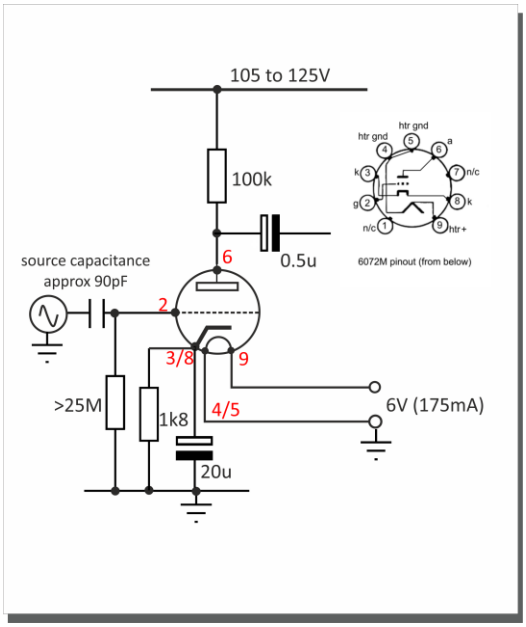
TYPE: **6072M (12AY7)**
B9A LOW-NOISE AUDIO TRIODE

Applications information

Below two typical applications for the 6072M are illustrated. The fixed (grid) bias scheme is typical of the AKG C12 microphone and its clones. The cathode bias version is typical of the ELA M250/1E microphones and its derivatives. The Phædrus 6072M is suitable for either circuit configuration.





IMPORTANT

The Phaedris Audio 6072M (12AY7) Gold Dot Supertube™ is NOT a general replacement for the 12AY7 or 6072 tube in applications other than microphones. If in doubt contact: sales@phaedrus-audio.com

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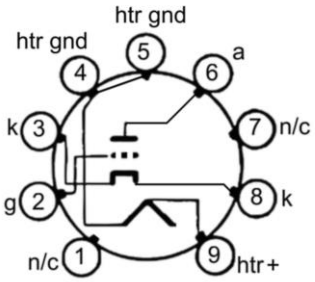
Current Equipment Type

TYPE: **6072M (12AY7)** B9A LOW-NOISE AUDIO TRIODE

One Touch™ Installation - Information for Microphone Technicians

The pinout of the Phædrus Audio 6072M is NOT IDENTICAL to the standard tube. By careful pinout design, only one wire connection ever needs to be changed, no matter how the tube was wired before or even which ½ of the tube was used! Work through the following CHECKLIST.



6072M pinout (from below)

Phædrus Audio 6072M Installation CHECKLIST.

Work around the base of the tube (no tube fitted) and make THE SINGLE change necessary. Complete in order.

Pin 1. If the anode (plate) load is connected to this pin, it will need to be moved to pin 6. This pin may be left open circuit once the connection is moved. The ground will need to be removed from pin 6 if it is present. If pin 1 is grounded, no change.

Pin 2. If the capsule connection is made to this pin, no change. If pin 2 is grounded, continue with check-list.

Pin 3. No change to this pin.

Pin 4. Verify that this pin is grounded (or open circuit).

Pin 5. Verify that this pin is grounded (or open circuit).

Pin 6. No change to this pin.

Pin 7. If the capsule connection is made to this pin, it will need to be moved to pin 2. This pin may be left open circuit once the connection is moved. The ground will need to be removed from pin 2 if it is present.

Pin 8. No change to this pin.

Pin 9. Verify that this pin is fed with the heater supply.

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