



This premium tube amplifier chassis is constructed from heavy-duty 0.05" thick steel, providing exceptional durability and rigidity while minimizing vibration and hum interference. The chassis comes with precision pre-punched holes for tube sockets, RCA jacks, and speaker connectors, as well as dedicated mounting points designed to accommodate our toroidal power transformers and output transformers.

For safe and reliable operation, it is equipped with a high-quality IEC power inlet socket that integrates an RFI/EMI filter, fuse, and power switch to effectively suppress power-line noise. Three CA transformer covers are included, ensuring a clean, professional appearance with added shielding.

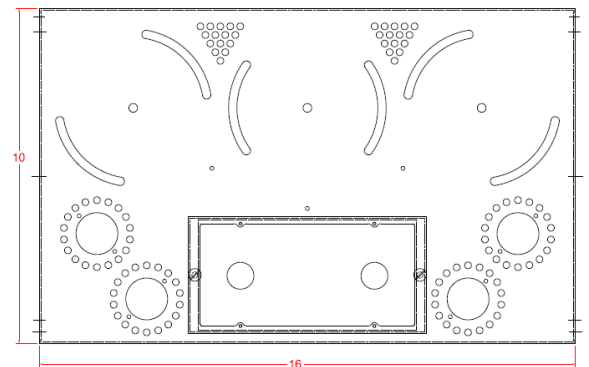
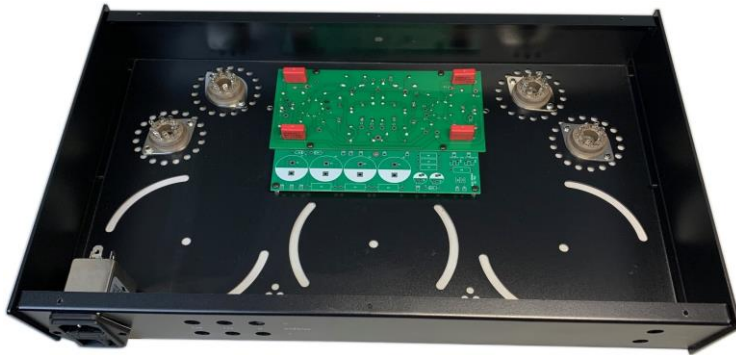
The main PCB can be ordered directly from us or sourced from third-party suppliers. All mounting holes are fully compatible ST-70 PCB and require no modifications.

Compatible Components

- Output Transformer: MP-40W66, MP-60W66 or MP-100W50
- Power Transformer: AS-2Txxx, AS-2TCxxx or AS-3Txxx
- Transformer Covers: CA-004 x3 (included)
- Tube Sockets: 8-pin x4, 9-pin x2
- IEC Power Inlet: CW2B-10A-T (included)
- Main PCB: STA-70PCB or third party ST-70 PCB
- RCA Connectors: Panel-mount x2
- Speaker Connectors: Panel-mount x6
- Tubes: 6L6, EL34, KT66, or KT88

Package Includes

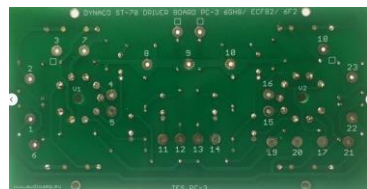
- Main chassis + PCB cover plate
- Bottom plate
- Two side panels
- Power transformer cover
- Two output transformer covers
- IEC power inlet with fuse and switch
- 6Vac green LED
- Screws and spacers



STA-70PCB



STA-70PS board

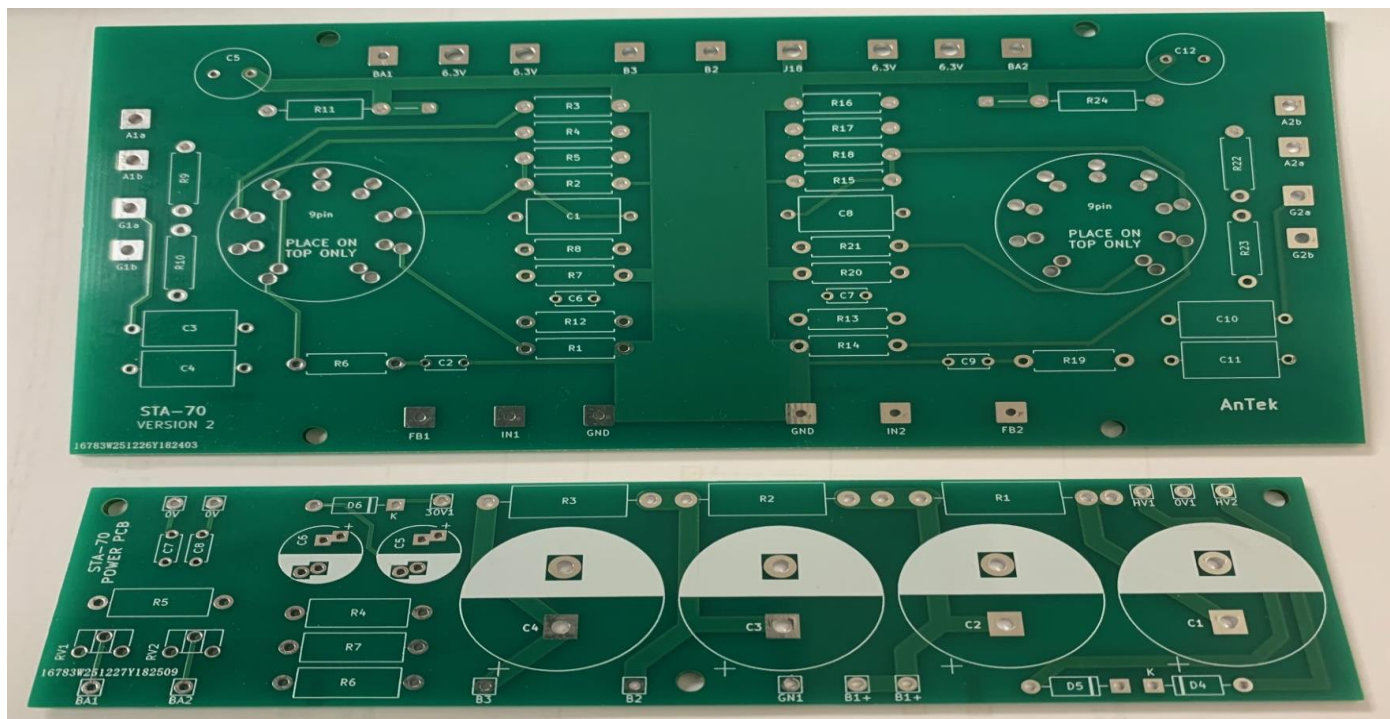


ST-70 PCB

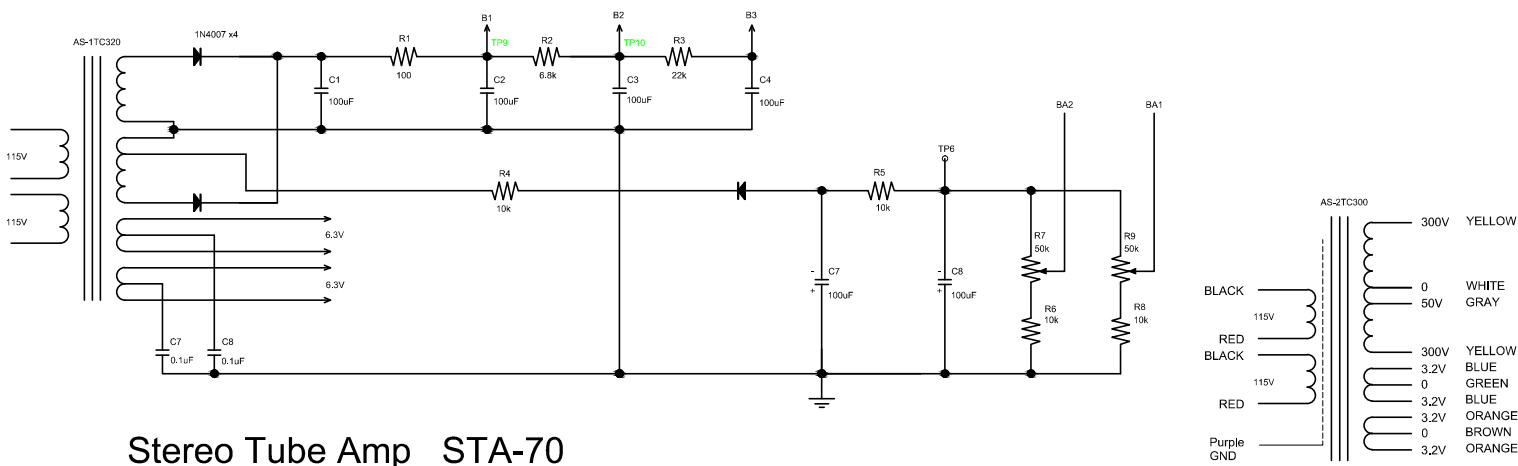
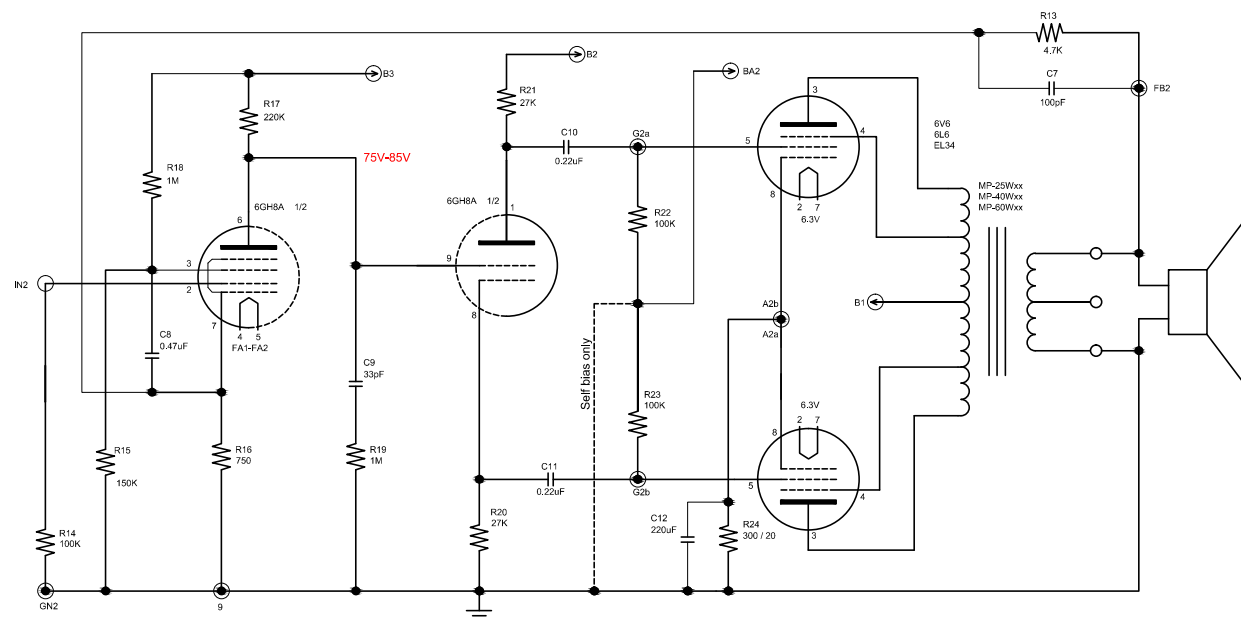
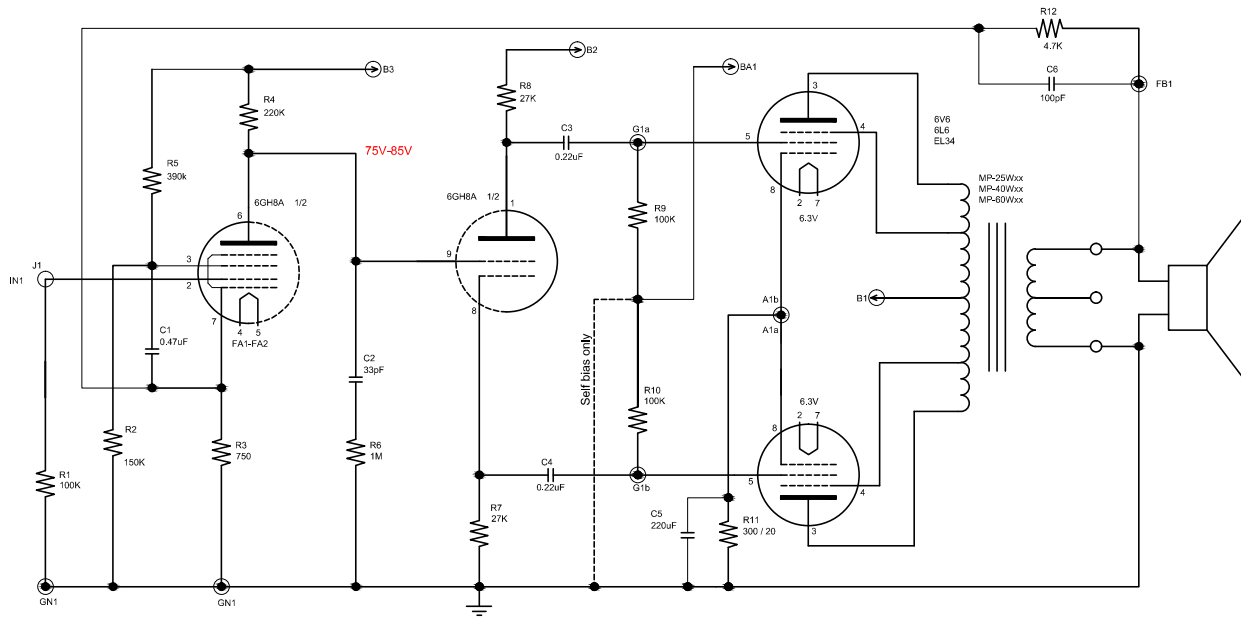
This PCB set is specifically engineered for the CC-1610A push-pull tube amplifier chassis and is based on a proven circuit topology derived from the legendary ST-70 tube amplifier. The board layout has been carefully optimized for short signal paths, proper grounding, and effective separation of high- and low-level circuitry to minimize noise, hum, and crosstalk. When combined with high-quality toroidal power and output transformers, the amplifier benefits from higher efficiency, reduced magnetic radiation, and improved regulation compared to traditional EI-core transformers. These advantages contribute to a quieter noise floor, improved dynamic range, and greater low-frequency control, while maintaining smooth and extended high-frequency response.

The PCB supports a wide range of commonly used output tubes, such as EL34, 6L6GC, KT66, KT77, KT88, and 6550, as well as multiple driver tube options, making it suitable for both hi-fi and audiophile-grade applications. The circuit allows for adjustable bias and incorporates appropriate test points to simplify setup and maintenance. High-voltage trace spacing, robust copper thickness, and quality component footprints are used to ensure long-term reliability and safe operation.

The supplied schematic corresponds to a specific transformer set and is provided as a reference design. Depending on the actual power transformer secondary voltages, output transformer impedance, and selected tube types, certain component values—such as plate resistors, cathode resistors, screen resistors, and power supply filter capacitors—may need to be modified. Final verification of operating voltages and bias conditions is strongly recommended during assembly to achieve optimal performance, tube life, and overall amplifier stability.



Model	Output Power	Output Transformer	Power Transformer	Suggest Tubes
STA-50	25W x2	MP-25W76	AS-2TC300, AS-2T300	6L6, 6V6, EL34
STA-80	40W x2	MP-40W66, MP-40W50	AS-2TC340, AS-3T325, AS-2T400	6L6, EL34, KT66
STA-120	60W x2	MP-60W66, MP-60W50	AS-3TD360, AS-3T350, AS-2T400	KT88, 6550
STA-200	100W x2	MP-100W50	AS-3TD400	KT88, 6550, KT120



Stereo Tube Amp STA-70

AS-2TC300	300V	YELLOW
BLACK	0	WHITE
RED	50V	GRAY
BLACK	300V	YELLOW
RED	3.2V	BLUE
BLACK	0	GREEN
RED	3.2V	BLUE
Purple	3.2V	ORANGE
GND	0	BROWN
	3.2V	ORANGE