

WARNING! - Please Read this Information Carefully:

The project described in these pages utilizes **POTENTIALLY FATAL HIGH VOLTAGES**. If you are in any way unfamiliar with high voltage circuits or are uncomfortable working around high voltages, **PLEASE DO NOT RISK YOUR LIFE BY BUILDING THEM**. Seek help from a competent technician before building any unfamiliar electronics circuit. While efforts are made to ensure accuracy of these circuits, no guarantee is provided, of any kind!

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GENERAL NOTES:

This project is in the **PRELIMINARY STAGES** and is not intended to be built except by **very experienced builders**. These documents have not been extensively debugged, and as such may contain serious errors. Once this project has been officially prototyped and debugged a general release of these documents will be made.

CORE CHASSIS DRILL PLAN:

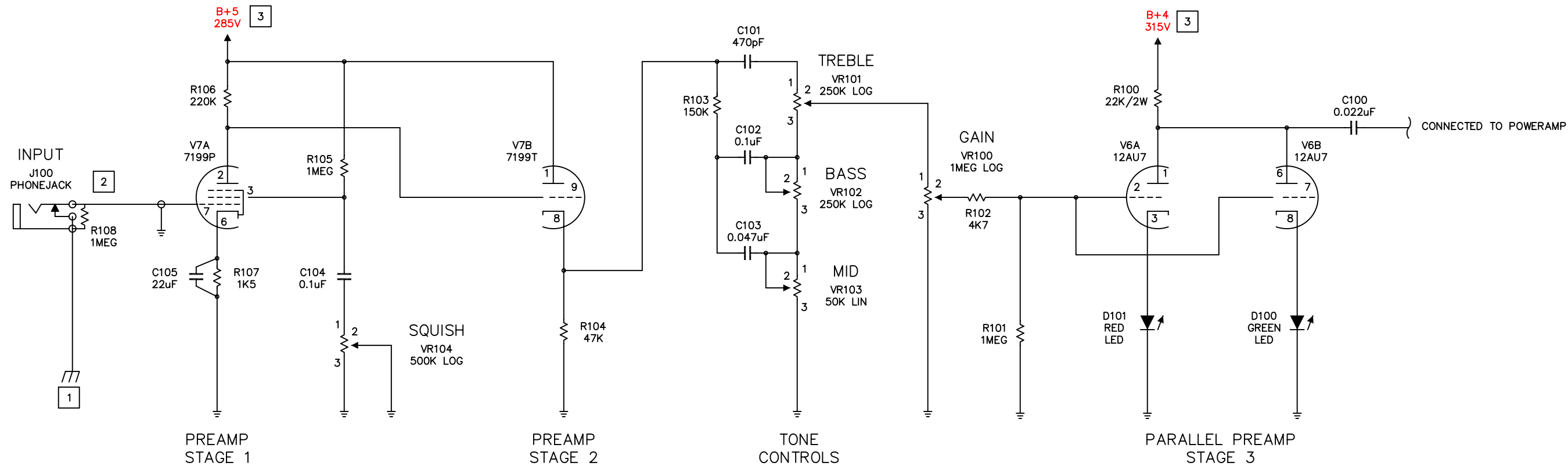
The chassis drill plan is common to all of the AX84 core series amps. Not all holes are used in all amps. You may want to drill all of them if you plan on upgrading, or modifying the amp in the future.

The chassis hole sizes and locations on these plans are correct for the components used in the construction of the prototype amp. At the current time, not all of the amps have been prototyped, so the size, number, and location are subject to change.

It is the builder's responsibility to insure that the hole sizes, numbers, and locations are correct for the parts used in their own build.

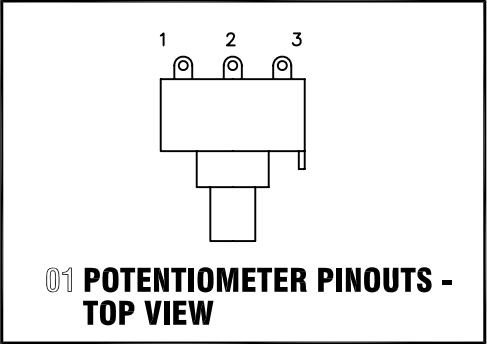
Do not assume that the parts you ordered individually, or bought as a kit, have the same dimensions as those used in the construction of the prototype amp.

Revision	Description
07.05.14	Relabeled D1 And D2 To D100 And D101
07.07.02	Added Construction Note 3
07.07.09	Revised R100 Power Rating
07.08.05	Coordination Issue




AS-BUILT VOLTAGE READINGS										
Ref	Desc.	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V5					Filament	Filament				Filament
V6					Filament	Filament				
Mains =		B+4 =		B+5 =						

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01 POTENTIOMETER PINOUTS - TOP VIEW

GENERAL NOTES:

- ALL RESISTORS 1/2W MINIMUM UNLESS OTHERWISE NOTED.
- ALL COUPLING CAPACITORS 400V OR GREATER.
- THE  SYMBOL REPRESENTS SHIELDED CABLE.
- NOT ALL COMPONENTS ARE USED WITH ALL AMPS. THIS RESULTS IN COMPONENT NUMBERING GAPS AND IS NORMAL.

VOLTAGE READING NOTES:

- DIFFERENT TUBES DRAW DIFFERENT AMOUNTS OF CURRENT, NO TWO ARE ALIKE UNLESS THEY ARE MATCHED. THE AMOUNT OF CURRENT DRAWN BY ALL THE TUBES IN THE AMP WILL AFFECT VOLTAGE READINGS THROUGHOUT THE AMP.
- PREAMP VOLTAGE READINGS ARE THOSE THAT CAN BE EXPECTED WHEN USING THE DEFAULT POWER TUBE SHOWN ON THE POWER-AMP SCHEMATICS. USE OF OTHER TUBES WILL AFFECT YOUR READINGS.

CONSTRUCTION NOTES:

- 1

THIS IS A GROUND CONNECTION TO THE CHASSIS. THE MAINS SAFETY CONNECTION SHOULD BE MADE AS CLOSE AS POSSIBLE TO THE POINT WHERE AC ENTERS THE CHASSIS. THE CIRCUIT CONNECTION SHOULD BE MADE AS CLOSE AS POSSIBLE TO THE INPUT JACK. IDEALLY, THE JACK ITSELF SHOULD BE USED AS THE CONNECTION POINT BY NOT ISOLATING IT FROM THE CHASSIS.
- 2

THE USE OF A FERRITE BEAD ON THE LEADS FROM THE SOCKET TO THE GRID REFERENCE RESISTOR MAY BE REQUIRED.
- 3

THE B+4 AND B+5 VOLTAGES SHOWN ARE TARGET VOLTAGES. THE VALUES OF R3 AND R4 ON THE POWERAMP USED MAY HAVE TO BE TO ACHIEVE THE TARGET VOLTAGES. AS THIS PREAMP IS BUILT, AND COUPLED TO VARIOUS POWERAMPS, THE CHART BELOW WILL BE UPDATED WITH THE CORRECT R3 AND R4 VALUES.

POWERAMP	R3 VALUE	R4 VALUE
2W SE	?	?
5W SE	?	?
20W SE	?	?
2W PP	?	?
20W PP	?	?
50W PP	4.7K/1W	2K/1W