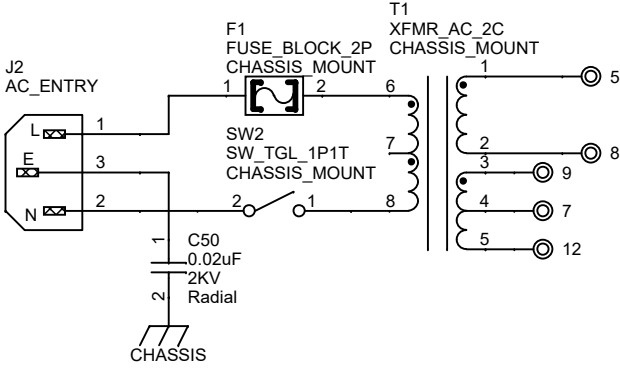
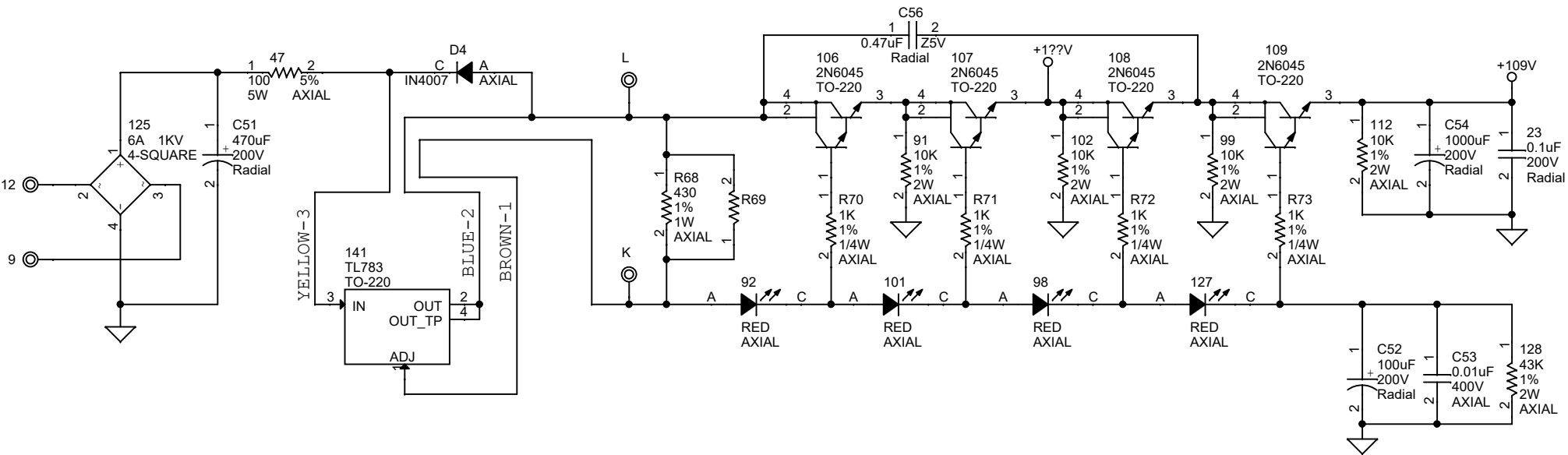


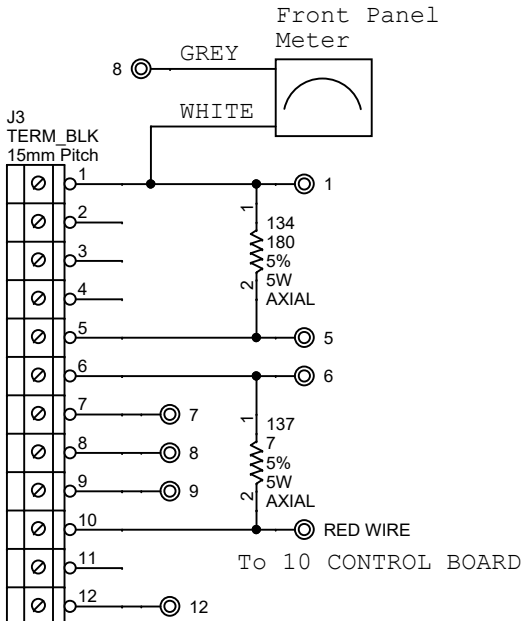
AC WIRING



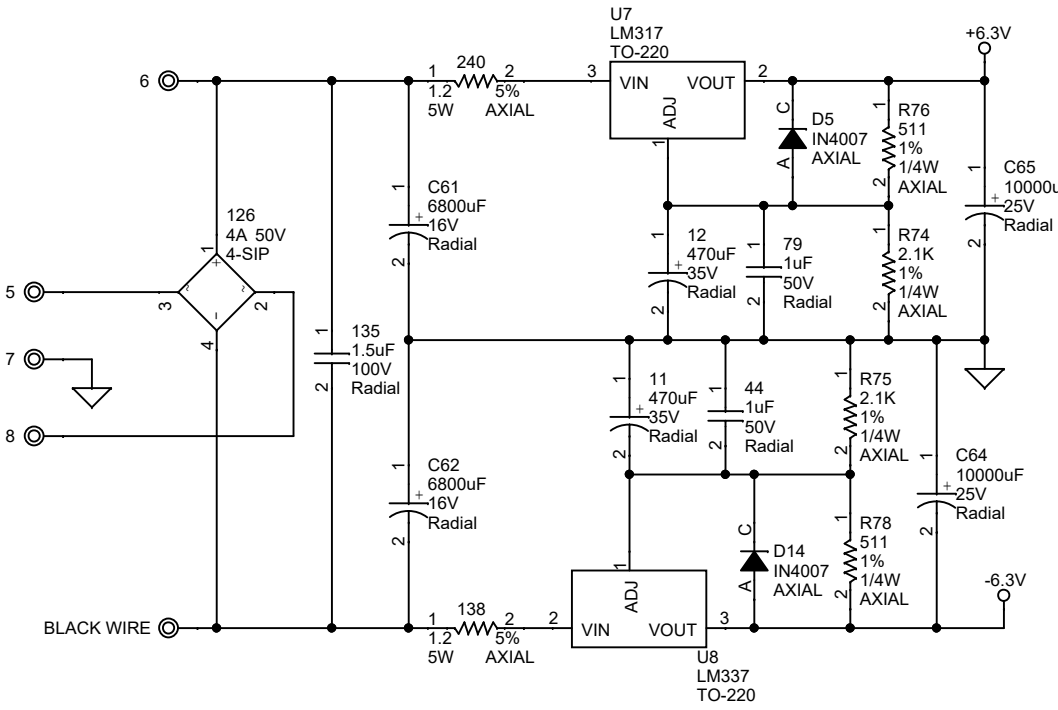
HIGH VOLTAGE POWER



AMP BOARD POWER INPUT



LOW VOLTAGE POWER



MELOS SHA GOLD, AMPLIFIER BOARD
CONNECTOR. POWER SUPPLIES

DRAWN:	AS	DATE:	07/03/2020	REV	1	SHEET	1 OF 3
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[illegible][illegible]

LINE STAGE /HEADPHONE AMP, RIGHT CHANNEL

DRAWN:	A. S.	DATE:	07/04/2020	REV	1	SHEET	2 OF 3
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HEADPHONE AMPLIFIER -- RIGHT CHANNEL

The circuit diagram illustrates the right channel of a headphone amplifier. It begins with an input signal passing through a series of components: a 1/4W resistor (190), a JUMP (191), a 2.1K 1/4W axial resistor (192), and a 1% axial resistor (193). This is followed by a coupling capacitor (187, 1.5uF, 100V radial) and another 1.5uF, 100V radial capacitor (193). The signal then enters the gate of a 2SK117 JFET (132, TO-92) biased at +6.3V. The JFET's drain is connected to a 32V DB3 diode (194) and a 1.1K 1/4W axial resistor (192). The output of the JFET stage is connected to the base of a 2N6045 MOSFET (189, TO-220), which is also biased at +6.3V. The MOSFET's drain is connected to a 32V DB3 diode (195) and a 1% axial resistor (196). The output of the MOSFET stage is connected to the non-inverting input (pin 5) of an NE5532 op-amp (142B, DIP-8). The op-amp is biased with +6.3V and -6.3V rails. Its feedback network consists of a 10M 1/2W resistor (199) and a 0.034uF, 50V radial capacitor (200). The op-amp's output (pin 6) is connected to a 2.1K 1% axial resistor (198) and a 100K 1/2W resistor (201). The final output is connected to a transformer (139C, E88CC) with a red wire for the right channel. The transformer's primary is connected to the op-amp's output and the MOSFET's drain. The secondary is connected to the headphones, with one terminal grounded and the other connected to the red wire.

LINE STAGE AMPLIFIER -- RIGHTT CHANNEL

(RED WIRE, RCA/XLR OUT)

(WHITE WIRE, XLR OUT)

(INPUT-)

(INPUT+)

FRONT PANEL STATUS LEADS

RED
DS1 LED_BI_CC
GREEN

MELOS SHA GOLD, AMPLIFIER BOARD

LINE STAGE /HEADPHONE AMP, RIGHT CHANNEL

DRAWN:	YOUR NAME	DATE:	07/04/2020	REV:	1	SHEET:	3 OF 3
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LINE STAGE /HEADPHONE AMP, RIGHT CHANNEL						
DRAWN:	YOUR NAME	DATE:	07/04/2020	REV	1	SHEET 3 OF 3

DRAWN:	YOUR NAME	DATE:	07/04/2020	REV	1	SHEET	3 OF 3
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