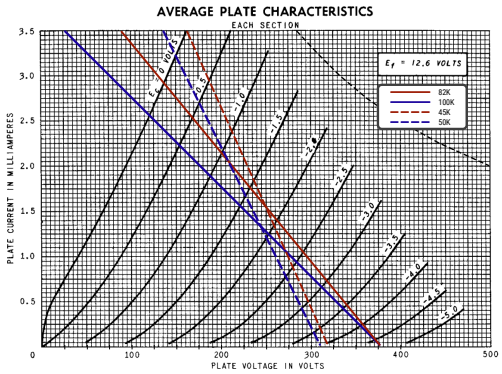
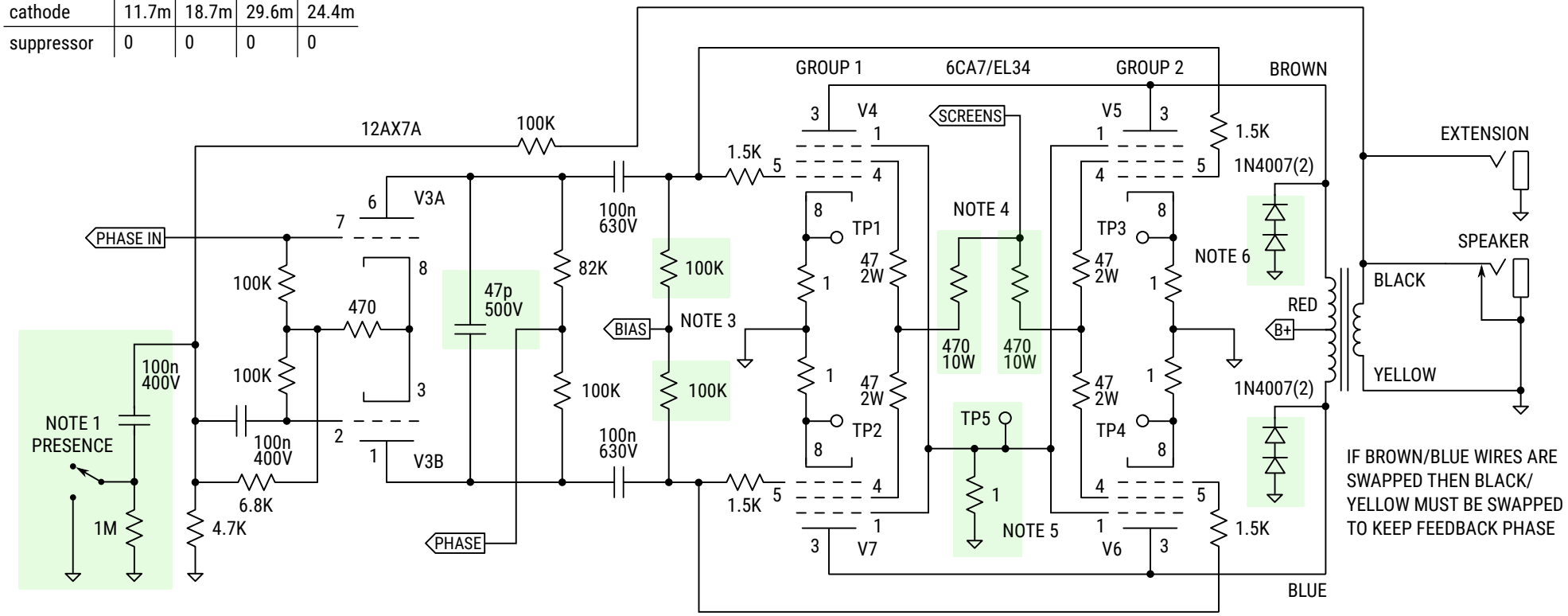
TESTPOINT VOLTAGES
Voltages were measured with a maximum 32mA cathode current in the output tubes.

testpoints	V3A	V3B
plate	250	245
cathode	33.1	33.1
grid	30.2	30.3

testpoints	V4	V5	V6	V7
plate	567	567	567	567
screen	556	552	552	555
grid	-53.5	-53.5	-53.5	-53.6
cathode	11.7m	18.7m	29.6m	24.4m
suppressor	0	0	0	0



NOTE 2 12AX7 V3 DC and AC LOAD LINES



IF BROWN/BLUE WIRES ARE SWAPPED THEN BLACK/ YELLOW MUST BE SWAPPED TO KEEP FEEDBACK PHASE

NOTE 1
Presence damping decreases feedback in mid to high frequencies (similar to a Marshall Plexi) and adds a slowly rising high frequency boost.

NOTE 2
Move solid LOAD LINES horizontally to match 0mA plate current with measured PHASE voltage. Move dashed load lines to intercept respective solid colours at their plate voltages.

NOTE 3
Bias resistors have been lowered in value to 100K to give better output tube bias stability.

NOTE 4
Each group of screen grids has its own 470 ohm limiting resistor.
Group 1 (V4/V7) and group 2 (V5/V6) permit one pair of power tubes to be used in V4/V7 or V5/V6 to reduce output power.

NOTE 5
Suppressor grids are wired to ground instead of -bias to decrease screen power dissipation.

NOTE 6
Output transformer protection diodes (2 1N4007 rectifiers)have been added from primaries to ground to replace the thyrectors across the primary.

CAUTION
NEVER POWER ON WITH THE TUBES REMOVED!

YBA-3 CUSTOM SPECIAL MID 1967 MIKE'S MODS			
Phase Inverter and Power			
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