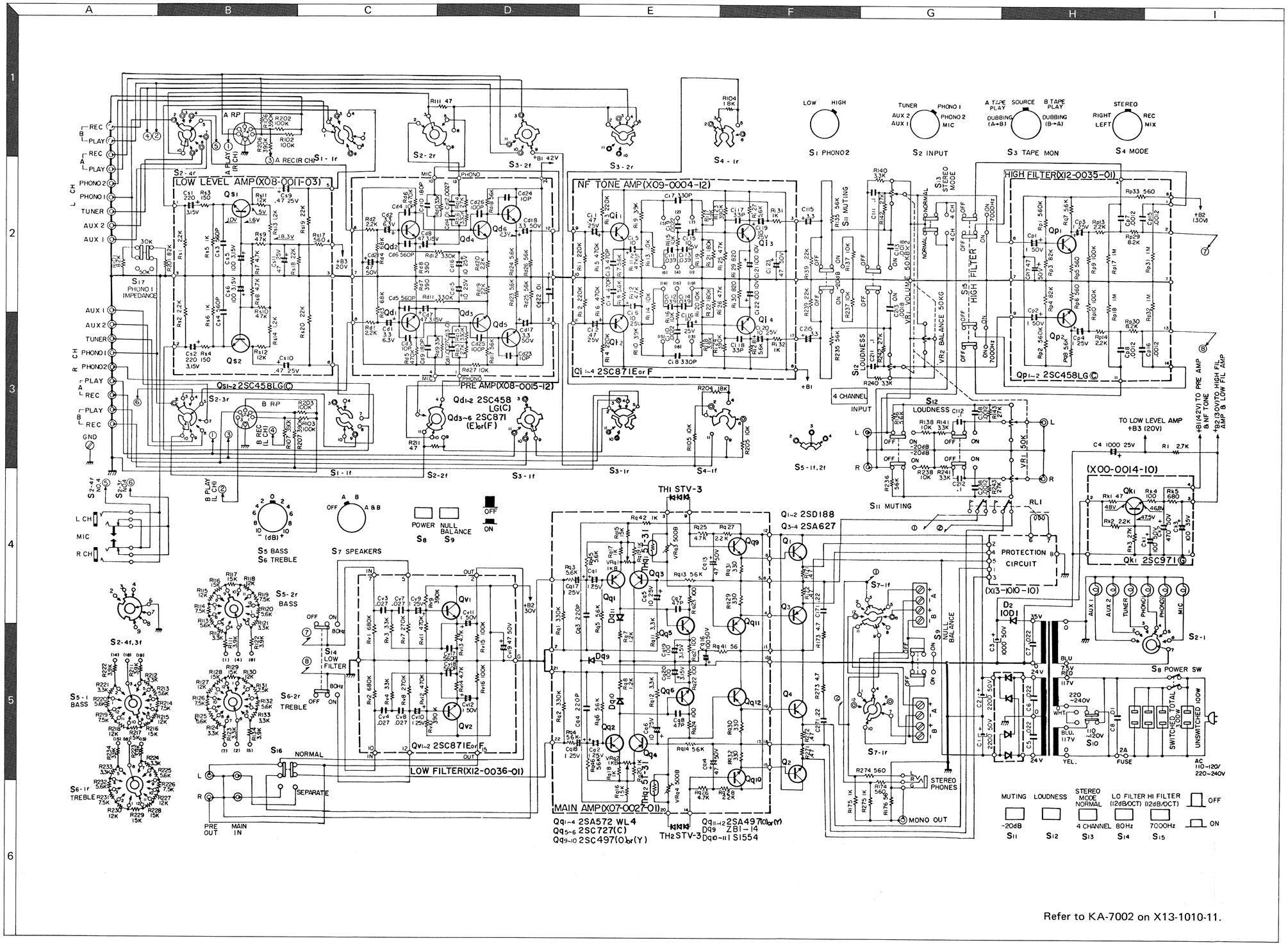
KENWOOD

SOLID STATE STEREO AMPLIFIER

KA-5002



SPECIFICATIONS

POWER OUTPUT:
60 watts RMS continuous power. 30 watts per channel with both channels operating simultaneously with 8 ohms load at any frequency from 20 Hz to 20,000 Hz.
48 watts per channel at 4 ohms load. (1000 Hz)
25 watts per channel at 16 ohms load. (1000 Hz)
150 watts IHF total music power at 4 ohms load.
120 watts IHF total music power at 8 ohms load.
180 watts ±1 dB both channels at 4 ohms load.
140 watts ±1 dB both channels at 8 ohms load.

HARMONIC DISTORTION:
Less than 0.5% at rated output from 20 Hz to 20,000 Hz

INTERMODULATION DISTORTION: (60 Hz and 7,000 Hz 4:1)
Less than 0.3% at rated output or at any level of less than rated output.
Less than 0.1% at −3 dB rated output.

FREQUENCY RESPONSE:
High level input: 20 Hz to 50,000 Hz ±1 dB

SENSITIVITY: (for rated output at 8 ohms load)

PHONO 1:	2.5 mV
PHONO 2:	0.06 mV 2.5 mV (Switchable)
MIC:	2.5 mV
AUX 1, 2:	200 mV
TUNER:	200 mV
TAPE PLAY A, B:	200 mV
MAIN AMP. INPUT:	1 V

INPUT IMPEDANCE: (at 1,000 Hz)

PHONO 1 (2.5 mV):	30 K ohms, 50 K ohms (Switchable)
PHONO 2 (0.06 mV):	50 K ohms
PHONO 2 (2.5 mV):	50 K ohms
MIC:	50 K ohms
AUX 1,2:	100 K ohms
TAPE PLAY A, B:	100 K ohms
MAIN AMP, INPUT:	50 K ohms

SIGNAL TO NOISE RATIO: (below rated output)

PHONO 1 (2.5 mV):	65 dB
PHONO 2 (0.06 mV):	45 dB
PHONO 2 (2.5 mV):	65 dB
MIC:	67 dB
AUX, TUNER, TAPE PLAY:	77 dB
Noise at minimum volume control:	0.5 mV at 8 ohms, 0.0003 milliwatts.

MAXIMUM INPUT SIGNAL:
310 mV (P-P 1000 Hz) at PHONO 1 input.

OUTPUT IMPEDANCE: (at Speaker Terminal)
0.25 ohms from 50 Hz to 10,000 Hz

DAMPING FACTOR:
90 at 16 ohms load.
45 at 8 ohms load.

LOW FILTER: (for rumble) 80 Hz Cutoff, 12 dB per octave.

HIGH FILTER: (for scratch) 7,000 Hz cutoff, 12 dB per octave.

BASS CONTROL: ±10 dB at 10,000 Hz with 2 dB step switch.

TREBLE CONTROL: ±10 dB at 10,000 Hz with 2 dB step switch

INPUT:
Pair of Phono 1, Phono 2, MIC, AUX 1,2, Tape Play A, B, 4 channel and Main Amp. Inputs.

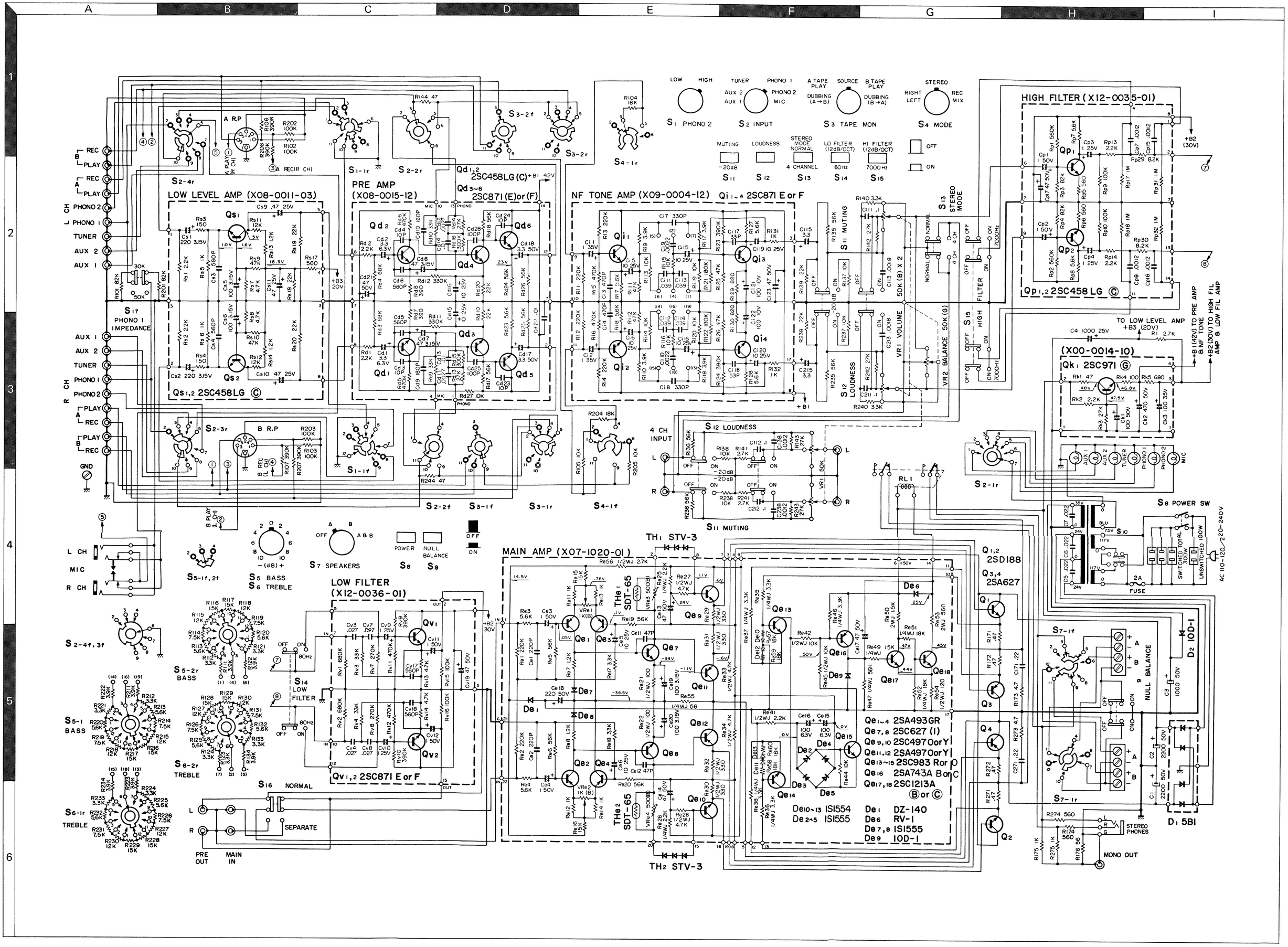
OUTPUT:
2 pairs of stereo speaker outputs (4 to 16 ohms), pre-amp. outputs, Tape Recording outputs A and B, DIN standard Tape Rec/Play connector A and B,Switched and Unswitched AC outlets, and 4 channel output.

CONTROLS:
Phono 1, Impedance Selector Switch, Phono 2 Level Switch, Input Selector Switch, Tape monitor Switch, Speaker Selector Switch, Volume Control, Balance Control, Bass Control Switch, Treble Control Switch, Muting Switch (−20 dB), Loudness Contour Switch, Low Filter Switch, High Filter Switch. Stereo Mode Switch, NULL Balance Switch and PRE-MAIN Separate Switch.

SPECIAL FEATURES:
* Direct coupling power amplifier.
* Tape monitor and Dubbing Switch for 2 tape recorders.
* Low level Phono input (0.06 mV) for Moving coil type or Low level outputcartridges.
* 2 set of Stereo Speaker terminals and front panel Speaker selector switch.
* 4 channel input, output terminals, and volume control.
* Phono input impedance selector.
* 2 dB step tone controls switch.
* Null Balance switch.
* Power transistor protection circuit.
* −20 dB muting switch.
* Light-up input indicators.
* Pre-amp. output.
* Main amp. input.
* Stereo phone jack on front panel

POWER CONSUMPTION:
AC 110 - 120/220-240 volts 50/60 Hz
15 watts quiescent, 200 watts at full power.

DIMENSION: (not including control Knobs)
Width 16-15/16", Height 5-5/32", Depth 11-1/16"

WEIGHT: 20 Lbs.

CAUTION: This schematic diagram is useful from serial No. 430,001.