



SPECIFICATIONS

- POWER OUTPUT:**
 100 watts RMS continuous power, 50 watts per channel with both channels operating simultaneously with 8 ohm load at any frequency from 20 Hz to 20,000 Hz.
 80 watts per channel at 4 ohm load, (1,000 Hz)
 35 watts per channel at 16 ohm load, (1,000 Hz)
 170 watts IHF total music power at 8 ohm 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 0.2% 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 ohm load)
 PHONO 1: 2.5 mV
 PHONO 2: 2.5 mV, 0.06 mV (Switchable)
 AUX 1, 2: 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 (2.5 mV): 200 k ohms
 PHONO 2 (0.06 mV): 200 k ohms
 MIC: 50 k ohms
 AUX 1, 2, TUNER, TAPE PLAY A, B: 100 k ohms
 MAIN AMP. INPUT: 80 k ohms
- SIGNAL TO NOISE RATIO:** (Below rated output)
 PHONO 1 (2.5 mV): 66 dB
 PHONO 2 (2.5 mV): 65 dB
 PHONO 2 (0.06 mV): 45 dB
 MIC: 67 dB
 AUX, TUNER, TAPE PLAY: 77 dB
 Noise at Minimum Volume Control: 0.5 mV at 8 ohms, 0.0031 milliwatts
- MAXIMUM INPUT SIGNAL:**
 210 mV (PP, 1,000 Hz) at PHONO 1 input
 0.25 ohms from 50 Hz to 10,000 Hz
- DAMPING FACTOR:**
 80:1 at 16 ohm load
 45:1 at 8 ohm load
- LOW FILTER:** (for rumble)
 40 Hz Cutoff, 18 dB per octave
 80 Hz Cutoff, 18 dB per octave
- HIGH FILTER:** (for scratch)
 7,000 Hz Cutoff, 18 dB per octave
- BASS CONTROL:**
 ±1 dB at 100 Hz with 2 dB step switch (TONE CONTROL SWITCH at 300 Hz)
- TREBLE CONTROL:**
 ±1 dB at 10,000 Hz with 2 dB step switch (TONE CONTROL SWITCH at 2 kHz)
- TONE CONTROL SWITCH:** (nomover roll off freq.)
 BASS: (150 Hz, 300 Hz, DEFEAT)
 TREBLE: (2 kHz, 6 kHz, DEFEAT)
- INPUTS:**
 Four of Phono 1, Phono 2, AUX 1, AUX 2, Tuner, Tape Play A, Tape Play B, MIC, 4 channel, and Main Amp. Inputs.
- OUTPUTS:**
 4 pairs of stereo speaker outputs (4 to 16 ohm), Pre-amp outputs, Headphone Jack, Low level MONO output, Tape Recording outputs A and B, DIN standard Tape Rec/Play connector A and B, Switched and Unswitched AC outlets, 4 channel output.
- CONTROLS:**
 Phono 2, Level Switch, Input Selector Switch, Tape monitor Switch, Mode Switch, Tone Control Switch, Speaker Selector Switch, Volume Control, Balance Control, Bass Control Switch, Treble Control Switch, Muting Switch (1-200 dB), Loudness Control Switch, Low Filter Switch, High Filter Switch, Stereo Mode Switch, Null Balance Switch, Phono 1 Impedance Selector Switch, and Pre-Main Separate Switch.
- SPECIAL FEATURES:**
 • Direct Coupled Power Amplifier
 • 3 sets of Stereo Speaker terminals and front panel speaker selector switch.
 • Tape monitor and Dulling Switch for 2 tape recorders.
 • Low level phono input (0.06 mV) for Moving Coil type or Low level output cartridge.
 • 18 dB/oct cutoff low and high filter.
 • 4 channel input/output terminals and control volume.
 • Phono input impedance selector.
 • 2 dB step tone controls with tone control switch.
 (DEFEAT: 150 Hz, 300 Hz, 2 kHz, 6 kHz)
 • 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 watts 50/60 Hz.
 15 watts (maximum), 2.75 watts at full power.
- DIMENSION:** (not including control knobs)
 WIDTH 16.5" / 418 mm, HEIGHT 5.5" / 140 mm, DEPTH 11.1" / 282 mm
- WEIGHT:** 22.1 lbs.



