



marantz *Stereo* console model 7

This new self-powered stereo preamplifier features a high order of versatility together with remarkable ease of operation. Unexcelled performance may be expected of both stereo and monophonic programs. Construction, of course, is of the usual Marantz quality.

FRONT CONTROLS

Selector — 8 positions: Microphone, Phono 1, Phono 2, Tape-head, FM-AM, FM (multiplexed), TV, Auxiliary.
Mode — 5 positions: Stereo, Stereo Reverse, Channel A, Channel B, Channel A+B. The last three are monophonic positions and will be heard from **both** speakers.

Volume — Especially developed for Marantz, it is individually tested for 2 db tracking **at any point of rotation** down to 65 db attenuation. Total range 90 db.

Balance — A full-range control offering complete cutoff of either speaker.

Tone Controls — Separate step-type feedback controls in each channel, with identical curves. The steps are in increments of 3 db at 50 cps and 2½ db at 10 kc. The controls are removed from the circuit in flat positions.

Record Equalizer — Effective on Phono positions only. Settings are RIAA, old COL LP, early 78.

NOTE: NARTB curve automatically substituted in Tape-head position, and Flat response for Microphone.

Tape Playback or Monitor — For playing or monitoring stereo and monophonic tapes.

High Filter — 9 kcs and 5 kcs. **Rumble Filter** — 50 and 100 cps. **Power Switch** — Heavy duty (15 Amps).

REAR FEATURES

Output Level-sets • **Tape-head Equalizer Adjustments** • **9 Pairs of Inputs**
3 Pairs of Outputs • **6 AC Convenience Outlets** • **System Grounding Point**

GENERAL DATA

Gain — Phono and Tape-head . . . 64½ db; Microphone . . . 62 db; High level, 22½ db. **At Recording Output**, Phono and Tape-head . . . 42 db, Microphone . . . 40 db; High-level . . . Unity (0 db).

Frequency Response — Within ½ db from 20 cps to 20 kc.

IM Distortion — Typical measurements: 10 volts equ. peak RMS, 0.1%. 2 volts equ. peak RMS, 0.01%.

Total Noise — In 20 cps to 20 kc audio range, 80 db below 10 mv phono input with RIAA curve. Hum is far below thermal noise.

Dimensions — Chassis: 14¾" W. x 5¾" H. x 8½" D. Panel: 15¾" W. x 5¾" H.

Tubes — 6 — ECC83/12AX7. **Shipping Weight** — 20 lbs.

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model 8

marantz

Dual-Thirty, Stereophonic *Power Amplifier*



The Model 8 Stereo Amplifier is essentially two 30 watt, model 5 units on one compact chassis, and features the same high quality of performance. All connections are made on the rear, making it ideally suited to exposed installation (for example: bookshelves, room dividers, etc.). With its optional grille snapped in place, it presents a smooth, uncluttered appearance with all tubes and wires hidden from view. A simple built-in metered test provides assurance of correct operation.

POWER OUTPUT, PER CHANNEL

30 Watts (60 Watts Peak) "Ultra-Linear" operation. 18 Watts of excellent Triode operation can be had by altering two connections inside chassis.

OUTPUT CONNECTIONS

4, 8 and 16 ohms.

INPUT SENSITIVITY FOR 30 WATTS

1.3 volts RMS into 250K.

RESPONSE

At 30 Watts: Within 0.2 db from 20 cps to 20 kc (equivalent of ± 0.1 db). Within 1 db from 15 cps to 40 kc into "Grid" (or test) input. At $\frac{1}{2}$ Watt: ± 1 db from 3 cps to 40 kc. Response has been deliberately rolled off approximately 7 db at 100 kc to control transient response. Subsonic Filter in standard "INPUT" slowly rolls response off below 20 cps (Less than 1 db at 20 cps; -10 db at 3 cps; etc.)

DISTORTION

Total Harmonic Distortion at 30 Watts: Less than 0.1% at mid-frequencies. Less than 0.5% from 20 cps to 10 kc. Less than 1.0% at 20 kc with resistive load (much less at equivalent voltages with inductive speaker loads). Intermodulation Distortion at 30 Watts equivalent (60 Watts Peak) Less than 0.5% (60cps/12kc, 4:1); (I.M. measurement of typical amplifier: 35 W. equiv., 0.5%; 30 W. equiv., 0.28%; 20 W. equiv., 0.17%; 10 W. equiv., 0.11%). Distortion below 30 W. is largely of 2nd order and reduces rapidly with signal level.

DAMPING FACTORS

Greater than 20 from 20 cps to 20 kc. (Instructions given for optional insertion by the customer of two additional resistors to provide damping factors of 2, 1, or $\frac{1}{2}$.)

INVERSE FEEDBACK AND STABILITY

20 db of overall feedback. Great care has been taken to ensure stability and low distortion under widely varying loads, both resistive and reactive, such as are encountered in loudspeaker systems. Power supply surges are balanced out of signal channels providing excellent recovery from strong transients. Will not oscillate under any condition of open circuit capacitive load.

HUM

Better than 90 db below 30 Watts containing proportionately little of high order components.

METERED TESTS AND ADJUSTMENTS

Built-in meter and test switch provide accurate adjustment of each output tube bias. This makes the use of matched tubes unnecessary. Adjustable A.C. Balance (located sub-chassis) pre-set at factory.

POWER SUPPLY

The use of Silicon rectifiers, three telephone quality electrolytics, and a choke, provide improved regulation, and thorough filtering, together with long life.

POWER REQUIREMENTS

Design center: 117 volts, 60 cycles. Range: 105-125 volts, 50-60 cycles. 170 Watts at zero signal; 250 Watts at maximum signal.

TUBE COMPLEMENT

2-6BH6, 2-6CG7, 4-EL34/6CA7.

SIZE

13 $\frac{1}{2}$ " W x 7 $\frac{1}{4}$ " H x 10 $\frac{1}{2}$ " D overall

SHIPPING WEIGHT

55 lbs.

\$237.00 (less grille)

\$9.00—Gold-finish perforated grille
Higher in West



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