MA6500 Integrated Amplifier
See “SYSTEMS ENGINEERING” in main brochure for more on McIntosh system architectures.

**Featured Technologies**

**EXCLUSIVE MCINTOSH POWER ASSURANCE SYSTEM.** Power Assurance is a collection of technologies that enhance performance and reliability and protect the amp and the loudspeakers.

- **Power Guard® clipping protection.** Power Guard ensures that the amplifier will always deliver full power without causing clipping distortion. If an amplifier channel is overdriven, Power Guard automatically reduces the input volume just enough to keep distortion below 2% and prevent any clipping distortion. Thanks to an optical resistor, Power Guard acts literally at the speed of light, producing absolutely no audible side effects. An amplifier with Power Guard will actually deliver clipping-free output well above its rated power.

- **Sentry Monitor® current protection.** Sentry Monitor continually senses the voltage and current of the output stage and confines it to a safe limit. Sentry Monitor does not limit power output.

- **Thermal Cutout.** If the cooling air is blocked and the power transistors become too hot, thermal cutouts protect against overheating until the amp cools.

- **Turn-On Delay.** This circuit delays operation for about two seconds after turn-on in order to avoid any pops or thumps generated as other equipment turns on.

- **Soft Start inrush protection.** Thermistors in the power transformer act as a cushion against inrush current, eliminating component stress during turn-on. Soft Start is one of many design details that contribute to the remarkable longevity of McIntosh equipment.

**ILLUMINATED PEAK-RESPONDING METERS.** McIntosh meters respond 95% full scale to a single-cycle tone burst at 2kHz. Response is almost 10-times faster than a professional VU meter.

Many who consider a McIntosh system for the first time will find integrated amplifiers a comfortable place to start. Hardly a “slimmed-down” model, the MA6500 incorporates premium McIntosh technologies – including Power Assurance and Silent Electromagnetic Switching – as well as several features that facilitate system integration and expansion.
About the MA6500 Companion Products

The McIntosh products shown at right are logical companions for the MA6500. Separate literature is available. Check with your McIntosh dealer for any late additions. McIntosh speaker systems are also covered in detail in separate literature.

**MR7084 AM/FM Tuner.** A natural companion for integrated amplifiers, the MR7084 tuner is a thoroughly engineered broadcast monitor that reveals the upper limits of AM and FM performance.

**MVS3 A/V Selector.** The MVS3 connects to the VIDEO data output of the MA6500 and accommodates five additional A/V sources.

**RCT3 Remote Translator.** The Translator allows non-McIntosh components to be operated with a McIntosh handheld remote or keypad. It connects to the data outputs on the MA6500.

**PC4 AC Power Controller.** The PC4 provides five AC outlets (four switched) for turning non-McIntosh components on and off automatically when it is connected to the power control output of a Control Center or Integrated Amplifier.

**HC1 Home Controller.** The HC1 connects to the HOME data output and allows operation of other devices such as lights and movie screens via a McIntosh handheld remote or keypad controller.

**WK2 Keypad Controller or R649 IR Sensor.** With switching for two pairs of speakers, the MA6500 can feed music to a second zone, with operation via keypad or sensor.

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**Featured Technologies (cont’d.)**

**SILENT ELECTROMAGNETIC SWITCHING.** In a conventional preamp, an input signal travels to a switch, and then travels to the input circuitry. Unfortunately, the farther a signal must travel, the more distorted it becomes. And this says nothing of what detritus a dirty switch can add to the signal. McIntosh Silent Electromagnetic Switching literally brings the switch to the input. The distortion-free switch consists of a glass tube containing oxygen-free gas and two signal leads separated by mere thousandths of an inch. The tube sits in a multilayer copper coil and the entire assembly is encased in shock-absorbent plastic. When DC voltage is applied to the coil in response to a switching command, current flow creates a magnetic field that causes the leads to bend and contact one another, completing the circuit. The inert gas eliminates corrosion of the contacts, ensuring a low-resistance, distortion-free switch that never needs cleaning. Another benefit is that non-selected inputs are truly “off,” eliminating potential sources of interference.

**PRECISION-TRIMMED VOLUME CONTROL.** Level differences among channels in a stereo or surround system compromise sound imaging. The left and right sections of McIntosh volume controls are electronically trimmed for superior tracking.

**EXCLUSIVE MCINTOSH TONE CONTROLS.** These offer ±12dB adjustments with fine resolution, yet in the “flat” position are completely removed from the signal path.

**CONTROL DATA OUTPUTS.** To facilitate system integration, the MA6500 outputs control data for source components. This allows remote operation of non-McIntosh components either by direct connection to compatible data inputs or via a McIntosh Remote Translator.

**REMOTE POWER CONTROL.** This enables the MA6500 to turn other McIntosh system components on/off.
MA6500 Integrated Amplifier

FEATURES

- 2 x 120/200/250 watts (8/4/2 ohms)
- Wide power bandwidth with ultra-low distortion
- Exclusive McIntosh Power Assurance System: Power Guard® clipping protection
  - Sentry Monitor® current protection
  - Thermal Cutout
  - Turn-On Delay
  - Soft Start inrush protection
- Illuminated peak-responding meters
- Silent electromagnetic switching
- Precision-trimmed volume control with digital readout
- Loudness compensation
- Exclusive McIntosh tone controls
- 6 source selections including phono
- Switching for 2 pairs of speakers
- Accommodates more sources with McIntosh MVS3 A/V Selector
- Control data output for source components
- Remote power control
- Remote operation of lights, screens, and drapes with McIntosh HC1 Home Controller
- Power and mute indications shown on multizone keypads and sensors
- Electronically regulated power supply with double-shielded transformer
  - Gold-plated input and output jacks
  - Fanless convection cooling
- Modular construction with steel chassis
- Glass front panel with illuminated nomenclature
- Infrared remote control
  - Connector for external IR sensor or keypad controller
  - Headphone jack

SPECIFICATIONS

- **RMS Power Output (8/4/2 ohms)**
  - 120/200/250W min. sine wave continuous average power output per channel from 20Hz to 20kHz with both channels operating
- **Output Load Impedance**
  - 2, 4, or 8 ohms
- **Rated Power Band**
  - 20Hz to 20kHz
- **Total Harmonic Distortion**
  - 0.005% max. at any level from 250 milliwatts to rated power per channel from 20Hz to 20kHz with all channels operating
- **Intermodulation Distortion**
  - 0.005% max. if instantaneous peak power output does not exceed 400W per channel
- **Dynamic Headroom**
  - 2.4dB
- **Frequency Response**
  - 20Hz to 20kHz, +0 / -0.5dB
- **Maximum Voltage Output**
  - 8V from 20Hz to 20kHz
- **Input Sensitivity**
  - High level: 250mV for 2.5V rated output (50mV IHF)
  - Phono: 2.5mV for 2.5V rated output (0.5mV IHF)
  - Main in: 2.5V for rated output
- **Maximum Input Signal**
  - High level: 10V
  - Phono: 90mV
- **S/N Ratio (A-Weighted)**
  - Power amp: 110dB below rated output
  - High level: 100dB below rated output (90dB IHF)
  - Phono: 90dB below 10mV input (84dB IHF)
- **Damping Factor**
  - 230 (8 ohms)
  - 120 (4 ohms)
  - 60 (2 ohms)
- **Input Impedance**
  - High level: 22k ohms
  - Phono: 47k ohms, 65pf
  - Main in: 20k ohms
- **Voltage Gain**
  - High level to tape: 0dB
  - High level to main: 20dB
- **Power Guard®**
  - Clipping is prevented and THD does not exceed 2% with up to 14dB overdrive at 1kHz
- **Tone Controls**
  - Bass and treble: ±12dB
- **Power Requirements**
  - 120V 50/60Hz, 4A
- **Dimensions (h x w x d)**
  - inch: 5.375 x 17.5 x 18.125
  - cm: 13.7 x 44.5 x 46
  - includes clearance for connectors knob clearance: 1.125” (2.9 cm)
- **Weight**
  - 41 lbs. (18.6kg) net
  - 60 lbs. (27.3kg) shipping

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