



GOODMANS **MAXAMP 30**

HIGH FIDELITY TRANSISTORISED STEREO AMPLIFIER

# MAXAMP 30

For more than 30 years Goodmans have led the field in High Fidelity Loudspeaker design, and recently revolutionised conventional ideas with the introduction of the MAXIM—the complete full-range High Fidelity loudspeaker system so small that shortage of living space can never again be the excuse for not having really good sound. The MAXIM has caused re-thinking by loudspeaker manufacturers all over the world.

Now Goodmans have taken another major step in this direction with the introduction of the MAXAMP 30.

MAXAMP 30 is a TRANSISTORISED INTEGRATED HIGH FIDELITY AMPLIFIER, STEREOPHONIC, using SILICON TRANSISTORS throughout, with a POWER OUTPUT of 15 WATTS PER CHANNEL.

**IT MEASURES ONLY** 10½" x 5½" x 7¼" deep; exactly the same size as the Maxim.

**IT HAS PERFORMANCE** of the highest order, for example with sine wave input, each of the two channels—operating simultaneously, will deliver continuously 15 watts into 8 ohms with less than 0.4% total harmonic distortion. (Full Specification—page 3.)

**IT IS COMPLETE** with integrated pre-amplifier and power-pack in a polished wood cabinet of the above minute dimensions, and may be used free-standing, hidden among books, or removed from its cabinet for incorporation into an equipment cabinet.

**IT IS PRECISION-ENGINEERED** and built throughout.

**IT LOOKS AS GOOD AS IT IS.** On the front cover of this booklet is a colour photograph of the outside of the MAXAMP 30. On page 6 are colour views of the inside. Particularly noticeable are the

thought and care that have been given to the layout and construction, to ensure reliability and mechanical and electrical stability. On pages 4 and 5 is an illustration of the MAXAMP 30 in a domestic setting. It is so small that there is no problem in placing it in the most convenient position—the possibilities are endless. The illustration shows also one of a pair of Maxim loudspeakers. With such equipment it is now possible to arrange your High Fidelity to suit yourself and the acoustics of your rooms. Nothing else need be shifted and floor-space is not taken up. You can even move the equipment into another room in a matter of minutes. No valve amplifier of comparable performance can approach the versatility and compactness of the MAXAMP 30. Up to now even transistorised amplifiers have not achieved the compactness and performance of the MAXAMP 30. The secret lies in the exclusive use of SILICON TRANSISTORS, coupled with long and careful development of every aspect of electrical and mechanical design. The result is a break-through which is a further GOODMANS contribution towards even more accurate sound reproduction—without any space problems.

## PERFORMANCE SPECIFICATION

### Power Output

30 watts r.m.s. maximum (15 watts per channel) into an 8 ohm load.

20 watts r.m.s. maximum (10 watts per channel) into a 4 or 15 ohm load.

### Total Harmonic Distortion

Less than 0.4% for 15 watts per channel into an 8 ohm load at 1,000 c/s.

### Frequency Response

20 c/s to 20 Kc/s  $\pm 3$ db.

### Inputs

**Pick up:** monophonic or stereophonic; RIAA characteristic.

Sensitivity (a) 3.5mV, input impedance 47k ohms

(b) 50 mV, input impedance 100k ohms

**Radio Tuner:** monophonic or stereophonic; flat characteristic.

Sensitivity 100mV, input impedance 100k ohms.

**Tape:** monophonic or stereophonic; flat characteristic. Sensitivity 150mV, input impedance 100k ohms.

**Auxiliary:** monophonic or stereophonic; for low output microphones, tape heads, etc., flat characteristic. Sensitivity 3mV, input impedance 50k ohms.

### Outputs

**Loudspeakers:** 4-8-15 ohms.

**Tape:** High level signal for tape recording.

### Hum and Noise

With reference to 15 Watts, volume control at maximum, all inputs -55db overall. Main section of amplifier only -80db with input shorted.

### Crosstalk

With input selector in any position, with unused channel input open circuit, better than -40db with reference to 10 watts into 8 ohms on the active channel.

### Supply

Adjustable for 105-120-200-220-240 volts A.C. 40-60 c/s.

## CONTROLS AND FACILITIES

**Input Selector:** A clearly marked rotary input selector provides choice of pick-up, radio, tape, or auxiliary, as detailed in the Performance Specification.

**Volume Control:** A ganged control gives simultaneous control of both channels.

**Balance Control:** A ganged control provides accurate balance facility. At extremes of rotation each channel is silenced.

**Bass Control:** A ganged control enabling boost or cut up to 12db at 50 c/s.

**Treble Control:** A ganged control enabling boost or cut up to 12db at 10 Kc/s.

**L.F. Filter:** A push-button control inserting a high-pass filter giving a cut of 10db at 20 c/s, ultimate rate 12db/octave, for the rejection of turntable rumble signal.

**H.F. Filter:** A push-button control inserting a low-pass filter with an 8 Kc/s turnover, giving a cut of 16db at 20 Kc/s, ultimate rate 12db/octave, for use with old recordings, limited range signals, interference rejection etc.

**Mono/Stereo Control:** A push-button control combining both output channels for monophonic signals.

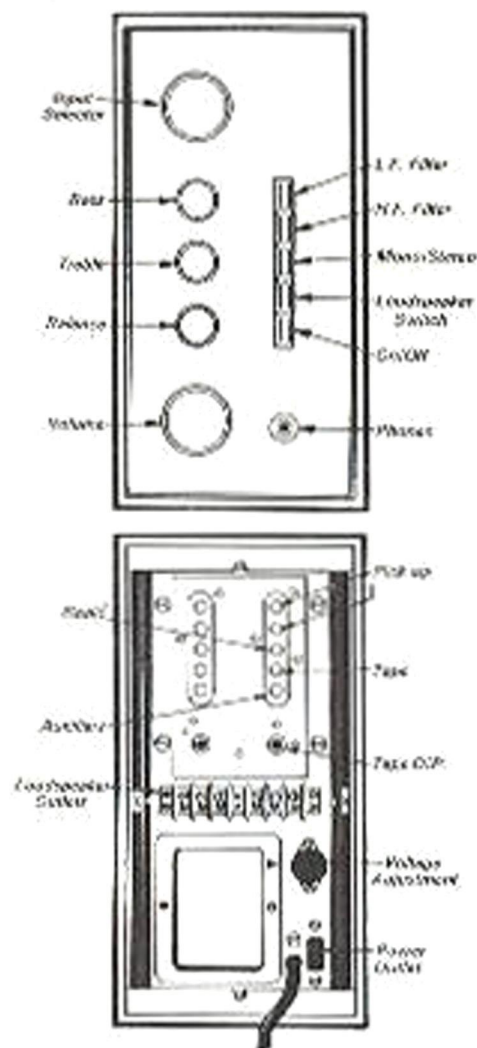
**On/Off:** A push-button control, with associated pilot light.

**Phones Socket:** On front panel, for connection of stereophonic headphones.

**Loudspeaker Switch:** A push-button control for muting the loudspeakers during headphone listening.

**Power Outlet:** A power outlet is provided on the rear panel for feeding turntable, tuner, etc. Controlled by main On/Off switch. Lead and plug supplied.

**Fuses:** A fuse is fitted in the A.C. power circuit for overall protection, and additional fuses are fitted in each output circuit to protect the output transistors.



## CIRCUIT DESCRIPTION

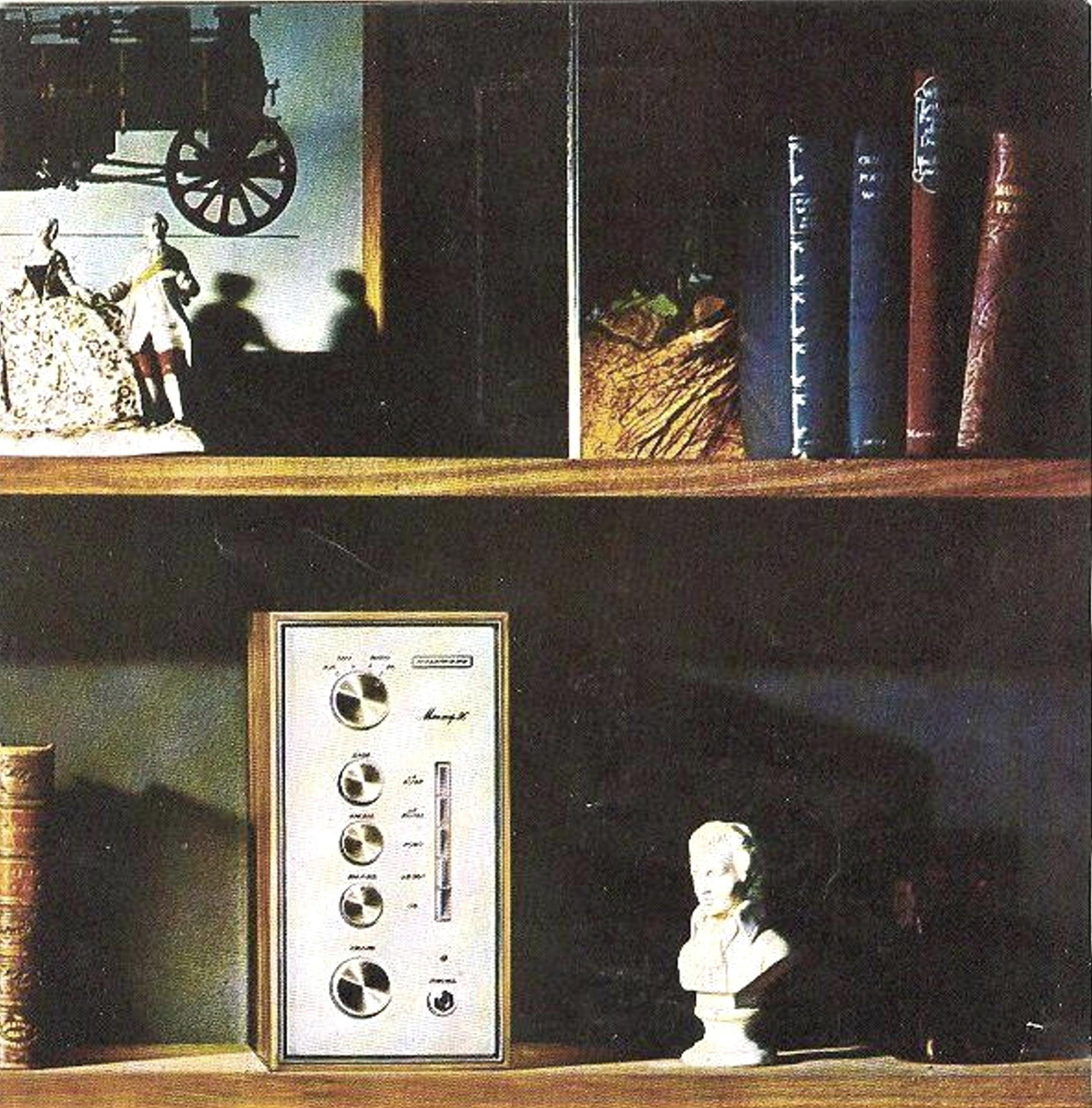
Direct coupled transformerless class B output circuit, with temperature compensated stabilised bias. Heavy overall feedback. Silicon Transistors are used through-

out, and ensure high stability and excellent wide band performance. Low noise input circuits. Baxand-all-type tone control circuits.



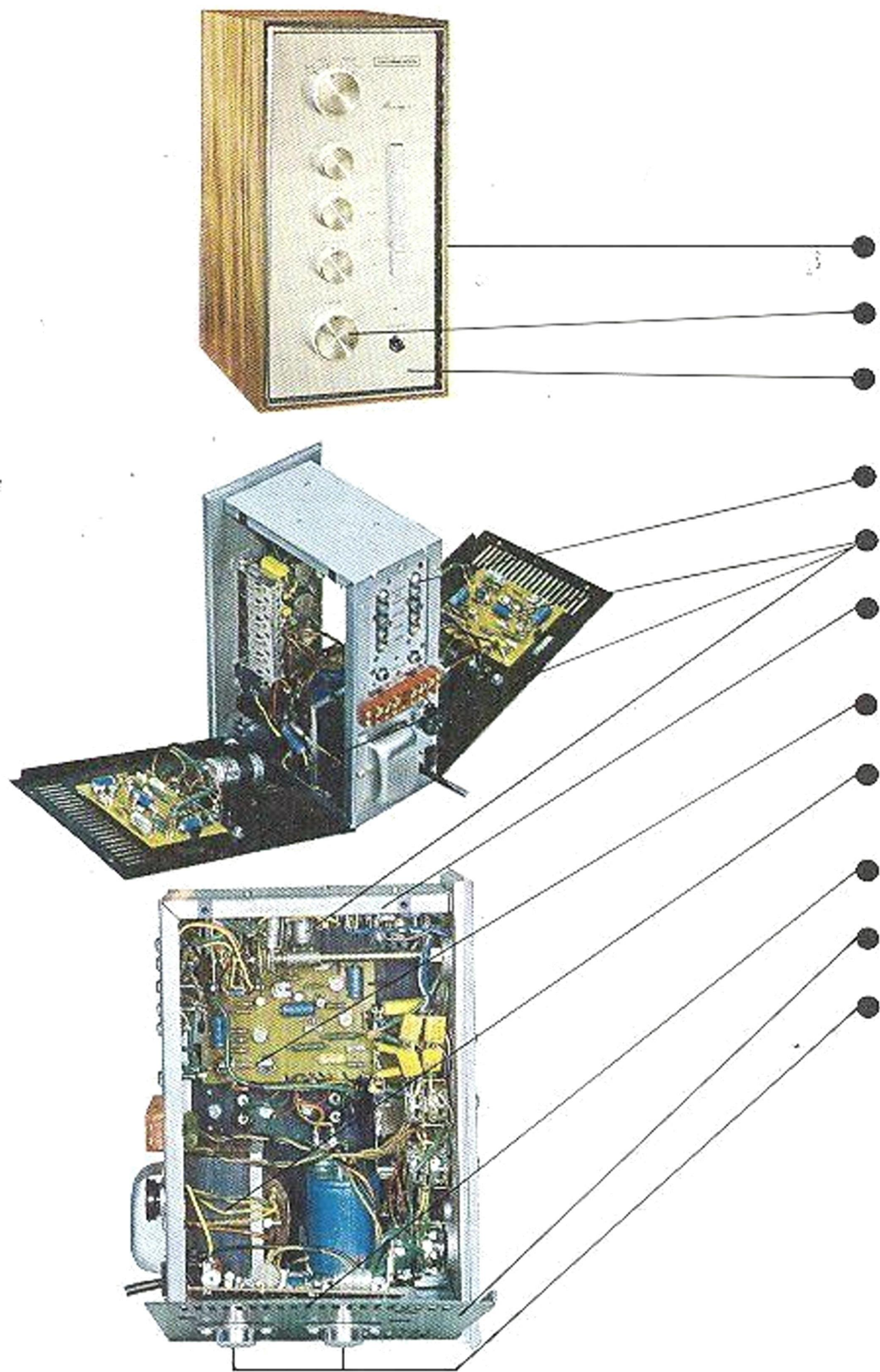
# GOODMANS MAXAMP 30

Leaving technicalities for a moment, see how MAXAMP 30 gracefully takes its place among your other fine things. Shown here with one of a pair of Maxim full-range loudspeaker systems—perfect sound in a charming setting.



Maxamp 30 is designed for use with all currently available auxiliary equipment (i.e. radio tuners, turntables, pickups, microphones, etc.) Loudspeakers with any impedance between 3 and 20 ohms may be used.

Goodmans Mezzo or Magnum-K are good examples of alternative reasonably compact loudspeaker systems. For the finest results, all associated equipment should be of the same high order of quality.



- Polished wood case – only 10½" x 5½" x 7½" – easily removable.
- Comprehensive controls, easily operated.
- Panel and controls styled in scratch grain finish, Danish Silver colour.
- Clearly identified external connections, with easy access.
- Printed circuit panels for consistency and compactness.
- Girdered steel chassis frame maintains precise location of components and sub-assemblies.
- Output and mains circuits fully fuse protected.
- Self-contained solid-state power pack with magnetic screening.
- Generous heat-sink and ventilation provision.
- Hinged panels provide easy access to all parts.
- Silicon Transistors throughout, for excellent stability and wide-band performance.