Randall

RBA 500 HT
OWNER'S MANUAL
**RBA 500 HT FRONT PANEL**

- **Input Jack 1**
  This input will be used with most musical instruments. Use good quality shielded guitar cords with ¼" phone plugs. This input can accept up to 7.5 volts RMS.

- **Input Jack 2**
  This input will be used with very hi output instruments; it will accept up to 15 volts RMS.

- **Gain**
  The Gain Control is active and very linear in its output level. A setting of 2 to 4 is a good initial setting.

- **Treble**
  The Treble Control is a true active boost and cut as are all the Tone Controls in this amplifier. See "Typical Setting" chart.

- **Middle**
  The Middle Control Cuts and boosts the frequencies around 350 Hz to 500 Hz.

- **Bass**
  The Bass Control determines the amount of Bass cut and boost. Bass Swing @ 40 Hz is 24 dB.

- **Equalizer**
  This section allows equalization around five bands of frequencies: 40, 140, 390, 1.6K and 6K Hz. The 40, 140 and 390, 1.6K, 6K Hz equalizer controls are peaking.

This enables the player to fine tune to the desired sound. In high volume operation, the 40 Hz control should be left at center or below, which results in optimum bass response. Bass may also be enhanced with proper adjustment, if needed, of the 140 cycle equalizer control. Extreme highs and mids can be obtained with this amplifier by using the channel treble, middle and bass controls in conjunction with the graphic equalizer. When the channel treble is fully clockwise and the equalizer is peaked on the high end some noise will be generated, but also the treble will be boosted enormously.

- **Pilot Light and Power Switch**
  The Pilot Light is activated when the amplifier is turned on.
  The power switch provides a means of turning the amplifier on.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**CAUTION** — TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE BACK OR CHASSIS. NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
AC Line Cord
To be connected to any external power source capable of supplying 115-125 VAC at 50/60 Hz, 500 watts. Use grounded AC receptacle only.

Circuit Breaker
The circuit breaker is actually a mechanical fuse and protects the amplifier from extreme overload conditions. Pushing in on the red circuit breaker button will set it, and it need not be reset unless caused to trip by an extreme overload. If the circuit breaker does trip and cannot be reset, it indicates trouble that should be investigated by a qualified technician.

AC Convenience Outlet
Can be used as an external power source to supply any piece of equipment requiring 115-125 VAC at 50/60 Hz, 200 watts. This outlet is not switched.

Effects Jack
The jack labeled "effects send" should be connected to the input of the effects unit. The jack labeled "effects return" should be connected to the output of the effects unit. The effects bus is pre power amplifier and post pre amplifier.

Signal Outputs
The signal output jacks provide an output signal for driving additional amplifiers, or for driving a tape recorder for recording directly from the amplifier and eliminating the need to mike the speakers.

Any amplifier mixer or tape recorder can be connected to the pre-amp output jack, as long as it will accept a 0 to 2 volt RMS signal and has an input impedance of at least 600 ohms. The XLR connector is transformer balanced.

The "level" control is for adjusting the level of signal at the signal output jacks.

Speaker Jacks
Used to connect external speaker cabinets of not less than 4 ohms each. Less than 2 ohms total load not recommended.

SHOCKS
Shocks are caused by a difference in the electrical potential between two pieces of equipment or between a piece of equipment and some grounded object. If shocks should continue to be felt after adjustment, it is suggested that a competent technician examine the equipment. Shocks can be dangerous. Do not use equipment if shocks persist.

CARE OF EQUIPMENT
Your amplifier is designed for rugged service, but to insure long and trouble free life, treat the equipment as you would any other electronic device. Do not handle it roughly or try to make it perform beyond its design specifications.

You have purchased the finest quality amplifier it is possible to buy. Treat it well, and it will perform far beyond your expectations.

NOTE: Be sure to send in your warranty card.
Sample Tone Settings

<table>
<thead>
<tr>
<th></th>
<th>Gain</th>
<th>Treble</th>
<th>Middle</th>
<th>Bass</th>
<th>40</th>
<th>140</th>
<th>390</th>
<th>1.6K</th>
<th>6K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jazz/String Bass</td>
<td>2</td>
<td>4</td>
<td>8</td>
<td>2</td>
<td>-7</td>
<td>0</td>
<td>0</td>
<td>-8</td>
<td>-15</td>
</tr>
<tr>
<td>Funk/Slap</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>-12</td>
<td>+12</td>
<td>0</td>
</tr>
<tr>
<td>Rock</td>
<td>3</td>
<td>10</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>-15</td>
</tr>
<tr>
<td>Pop</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>+3</td>
<td>-7</td>
<td>-15</td>
</tr>
<tr>
<td>C &amp; W</td>
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<td>7</td>
<td>2</td>
<td>5</td>
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<td>+3</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Lead Bass</td>
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<td>5</td>
<td>5</td>
<td>4</td>
<td>-3</td>
<td>0</td>
<td>0</td>
<td>-7</td>
<td>-12</td>
</tr>
</tbody>
</table>

Note: These settings may vary with brand of bass guitar and type and size of speakers used.

SPECIFICATIONS RBA 500 HT

- POWER OUTPUT: 2 Ohms 380 Watts
- MINIMUM INPUT SIGNAL FOR RATED OUTPUT: 75 Mv. Gain @ 10, Treble, Middle, Bass @ 5, Equalizer @ 0
- TONE CONTROLS:
  - Treble Swing @ 10 KHz 25 dB
  - Treble Swing @ 5 KHz 24 dB
  - Middle Swing @ 500 Hz 11 dB
  - Bass Swing @ 40 Hz 24 dB
- NOISE: ALL TONE CONTROLS @ 5, Equalizer @ 0, Gain @ 0 –75 dB
- EFFECTS LOOP: Effects Send .70 volts RMS, Effects Return 50 K Ohms
- SIGNAL OUTPUT: Ø to 2 volts RMS 600 Ohms
- INPUT IMPEDANCE: Hi + 6 dB Jack, 1 MEG Ohm
  - Lo Ø dB Jack 130K Ohm
- INPUT HEADROOM: 7 volts RMS @ Hi + 6 dB Input
  - 14 volts RMS @ Lo Ø dB Input
- AC OUTLET: 200 Watts Unswitched
- POWER AMPLIFIER DAMPING FACTOR: 200 Ø 8 Ohms
- AC LINE VOLTAGE FOR RATED OUTPUT: 120 VAC 60 Hz, 500 Watts
- WEIGHT: 17 lb.
- SIZE: 3.5" H x 19" W x 10" D

Randall
RANDALL INSTRUMENTS, INC.
1132 DURYEA, IRVINE, CA 92714-5582
P.O. Box 26037, SANTA ANA, CA 92799-6037