


**RH750**



**USER'S MANUAL**



# IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## Warning!

- To reduce the risk of fire or electrical shock, do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
- This apparatus must be earthed.
- Use a three wire grounding type line cord like the one supplied with the product.
- Be advised that different operating voltages require the use of different types of line cord and attachment plugs.
- Check the voltage in your area and use the correct type. Please refer to the following table:

Voltage	Line plug according to standard
110-125 V	UL817 and CSA C22.2 no 42.
220-230V	CEE 7 page VII, SR section 107-2-D1/IEC 83 page C4.
240V	BS 1363 of 1984. Specification for 13A fused plugs and switched and unswitched socket outlets.

- This equipment should be installed near the socket outlet and disconnection of the device should be easily accessible.
- To completely disconnect from AC mains, disconnect the power supply cord from the AC receptacle.
- The mains plug of the power supply shall remain readily operable.
- Do not install in a confined space.
- Do not open the unit – risk of electric shock inside.

## Caution:

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

## Service

- There are no user-serviceable parts inside.
- All service must be performed by qualified personnel.

# EMC / EMI

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## EMC/EMI

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## For Customers in Canada:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## **INTRODUCTION**

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## Power and tone in spades!

**Congratulations. You are now unpacking a bass amp that will keep you supplied with tons of power and tonal versatility for years and years.**

In essence, our Bass Amp 2.0 concept is all about making you focus on playing. With a built-in bass tuner, 3 presets and a wealth of tonal options – such as SpectraComp, TubeTone, TweeterTone and 4-band EQ – you can sculpt any tone you desire, tune up in seconds, and switch freely between different basses and playing styles on the stage.

SpectraComp is a unique 'per string' bass compressor that has been praised by bass players all over the world for its extremely even compression across all strings, and TubeTone is an amazing recreation of both a tube pre- and power amp. Combine those features with an extremely versatile 4-band, semi-parametric tone control section and the new 'intelligent HF-control' called TweeterTone and you have an unrivalled set of bass shaping tools that is in a league of its own.

With three on-board presets, you will be able to store your favorite tones carefully tailored for different basses or musical styles. Finally, switching between vintage Fenders and modern, active basses or between funky R n' B and classic Rock 'n Roll tunes is completely effortless.

Finally, the built-in, chromatic bass tuner makes perfect pitch of the low notes on the stage a matter of course. The tuner is always displaying the tuning state of your bass, and it is a breeze to tune up silently and swiftly between songs by hitting the Mute button. It has never been faster to get back to the important thing – playing music!

Did we mention 750 Watt?

***Enjoy your new bass amp!***

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Please note - We reserve the rights to change the contents of this manual at any time. The latest manual revision can always be downloaded from [www.tcelectronic.com](http://www.tcelectronic.com). If you need additional information and support, be sure to visit the TC Support Portal: [www.tcelectronic.com/support](http://www.tcelectronic.com/support)

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**tc electronic®**

# QUICK SETUP GUIDE

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## If you just can't wait...

Here are a few quick steps to get you playing within minutes.

## Unpacking

- Unpack your RH750 amp.
- The box should contain the following items:
  - RH750 amplifier
  - Power Cable
  - RCA to Mini-jack cable
  - Manual
- Inspect all items for signs of transit damage. In the unlikely event of this having occurred, inform the carrier and supplier.
- Keep all the packaging if damage has occurred, as this will show evidence of excessive handling force.
- It is also a good idea to keep the packaging for future transportation.

## Setting up

- Connect the Speaker Out jack of the amplifier to your cabinet using a speaker cable. Both Speakon and ¼" jack cables can be used. RS cabinets come with a speaker cable included, so if you have bought a RS cabinet, you are all set to go.
- You can connect up to three TC Electronic RS cabinets or any other two 8 Ohm cabinets of another brand to the amplifier. (minimum load: 4 Ohm).

- Connect the power cable and power up. RH750's power supply accepts voltages from 100 to 240 VAC.
- Connect your bass to the input jack on the front panel.
- Adjust the input gain using the GAIN knob.
- Adjust the output volume using the MASTER knob.
- Play!

## Accessories

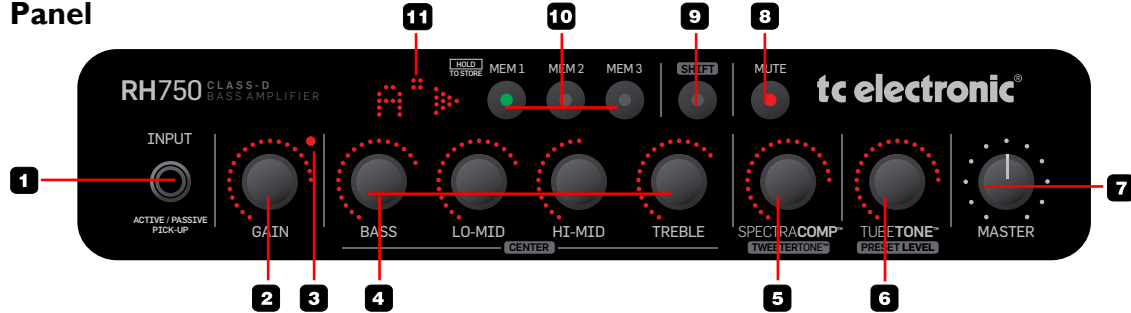
The following items can be purchased at your music dealer:

- RS210, RS410, RS112 and RS212 cabinets.
- RC4: A pedal with four footswitches that can use to switch between three memory locations and also to mute for tuning purposes. This pedal also shows tuner information.
- 19" bracket that allows you to mount the amplifier in a standard 19" rack.
- Soft bag with sufficient space for both the RH750 amplifier and the RC4.
- Flight cases for the RH750 amplifier and the RC4.
- Flight cases for some RS cabinet models.

Be sure to check [www.tcelectronic.com](http://www.tcelectronic.com) for latest news about these and other TC Electronic products.



## Front Panel



### 1 – INPUT

You can connect an active or a passive bass to this 1/4" input jack. The RH750 input stage is designed to adapt to any type of pickup.

### 2+3 – GAIN & OVERLOAD LED

The input gain should be set to the highest possible level without overloading the input stage. To find the correct setting, simply plug in your bass, play and turn up the GAIN knob until the OVERLOAD LED occasionally lights up. Then reduce the gain slightly. When set, simply turn up the MASTER volume knob to start playing.

### 4 – TONE Controls

RH750 has four tone controls: Bass, Lo-mid, Hi-mid and Treble. These controls have been tuned carefully to address four

relevant bass frequency areas, and should allow you to dial in your sound with ease.

As you know, each instrument has its own sound characteristics. If you feel that your RH750's tone controls don't grab exactly the frequencies your particular instrument requires, you can change the center frequencies of the four EQ bands.

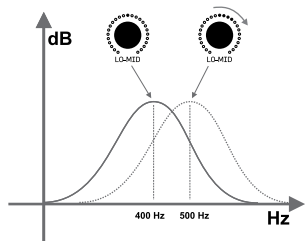
### Changing Tone Control Frequency

You can change the control frequencies of all four frequency bands. This is sometimes referred to as "parametric bands" or "sweepable".

Normally, the BASS, LO-MID, HI-MID and TREBLE knobs are used to set the *gain* of each EQ band. To change the *center frequency* of an EQ band, press the SHIFT button once and then adjust a band's center frequency by turning its knob.

## OPERATION – FRONT PANEL

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*Example:*  
Press **SHIFT** and turn the **LO-MID** knob to change the center frequency of that control.



Sometimes “sweepable” tone controls can be a bit tedious to work with. Here is an easy step-by-step guide to adjusting RH750’s Low-mid band to your bass and setup:

- Boost the LO-MID band – the more you boost, the easier it is to find the right frequency.
- Hit the SHIFT button to get access to the center frequency of the EQ bands.
- Now, while playing your bass, slowly turn the LO-MID knob to sweep the low-mid frequency across the frequency range.
- When you find the frequency that you prefer to control, simply hit the SHIFT button again to switch back to gain control and set the right amount of low-mid gain.



While RH750 is in Shift mode, the SHIFT button will be blinking to remind you that you are in Shift mode.

When you haven’t been using the RH750’s front panel controls for about twenty seconds, the LED will flash rapidly, and RH750 will automatically return to normal mode.

### Gain and Frequency Ranges

Bass Freq range: 71 Hz to 1120 Hz (default: 200)

Bass Gain range: -24 dB to +15 dB  
(Shelving type)

Low Mid Freq range: 100 Hz to 1600 Hz (default: 400)

Low Mid Gain range: -24 dB to +15 dB  
(Fixed 2.1 oct.)

High Mid Freq range: 200 Hz to 3150 Hz (default: 800)

High Mid Gain range: -24 dB to +15 dB  
(Fixed 2.1 oct.)

Treble Freq range: 400 Hz to 6300 Hz (default: 4000)

Treble Gain range: -24 dB to +15 dB  
(Shelving type)

## 5 – SPECTRACOMP™

Turn the knob to adjust the amount of SpectraComp compression.

SpectraComp™ uses a so-called spectral or multi-band approach to compression, allowing for individual compression of the low, mid and high frequency bands. Multiband compression allows a significantly smoother and more transparent compression without killing dynamics or tone.

SpectraComp™ is an advanced compressor, optimized to get the best from a bass signal. If you simply want to hear it just turn the knob while playing. If you want to know a bit more about what is going on behind the scenes, please read the following section.

### **SpectraComp In Depth**

#### Gain Reduction / Compression Meter

When using SpectraComp™, the light-ring around the SPECTRACOMP knob doubles as a compression meter, showing you how much compression is applied to the signal.

#### Auto Make-up Gain

As compression by nature reduces the loudest parts and peaks of the signal, you may feel that many conventional compressors “eat” the level of your signal, resulting in a lower output volume. SpectraComp™ automatically compensates for compression gain reduction, giving you an even output volume.

### **Spectral Compression vs. Full Band Compression**

Virtually any compressor on the market for bass is based on a “full band” principle, meaning that the compressor will respond and compress identically across the full (20 Hz to 20 kHz) frequency range.

From the low E (or B) string to the G string: The electric bass has a very wide dynamic range. When using standard compressors, the low E string will – due to its higher energy – control when and how the compressor responds to and shapes the entire signal. The typical result is that either the G string is not compressed at all or that – just when the G string starts to sound right –, the low E string is compressed too strongly. In other words: You are constantly dealing with a tight and difficult compromise.

With Spectral Compression, the RH750 amplifier uses a different approach that allows for independent compression of the Low, Mid and High frequency areas. This way, the right amount of compression is added to the individual strings of your bass, resulting in a smoother and much more transparent compression.

## OPERATION – FRONT PANEL

### 5 – TWEETERTONE™ (in Shift Mode)

Many heads and cabinets include a so-called “L pad” HF control on the back side of the cabinet. This control normally sets the level of the tweeter in the cabinet and is used to adjust the level of high frequencies.

TweeterTone is a far more intuitive and much better way of adjusting the high frequency content. By using TweeterTone, you do not simply turn the tweeter up and down in level – you also get a much more musical and pleasant HF adjustment. And instead of having to fumble around on the back of the cabinet, you can simply use the TweeterTone knob right there on the front panel.

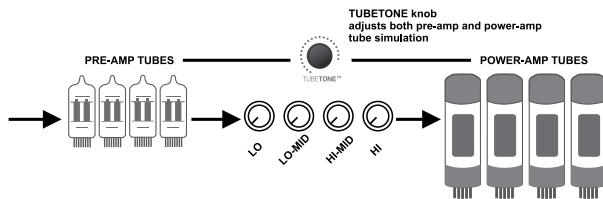
Finally, TweeterTone is stored as part of your presets. This allows you to adjust the level of HF with the rest of your sound and thus go from a round and warm vintage sound to a sparkling and crisp slap-setting – simply by hitting a preset switch.

### 6 – TUBETONE™

TubeTone™ allows you to alter the “personality” and sound of your RH750. The effects you can achieve range from a small touch of classic tube amp response and character through obvious, but pleasant “tube attitude” to highly overdriven.

Contrary to many tube simulations, TubeTone™ recreates both the entire preamp section (located before the tone control section) and the power amp section (located after the tone controls). Not only does this give you the most realistic and flexible recreation of the actual tube sound and response, but it also allows you to alter the behavior and character of

TubeTone™ through the RH750 tone controls as you would on an actual tube amp.



*The TUBETONE knob adjusts the amount of both the preamp and the power-amp tube simulation.*

### 6 – PRESET LEVEL (in Shift Mode)

Press SHIFT and then turn the TUBETONE knob to adjust the level of the currently selected MEM/preset. When you haven't been using the RH750's front panel controls for about twenty seconds, the LED will flash rapidly, and the RH750 will automatically return to normal mode. In normal mode, the TUBETONE knob controls the intensity of the Tubetone™ effect. Range: -12 dB to 0 dB

## 7 – MASTER

Use the MASTER level knob to set the overall output level of the amp. The master level also controls the level of the headphone output.

## 8 – MUTE

The MUTE button mutes both the speaker and the balanced output. This means that you can tune up with no sound going to your own rig or to the PA.

## 9 – SHIFT

The SHIFT button is used to access the secondary functions marked with grey text on RH750's front panel. The following controls have secondary functions:

<u>Normal mode</u>	<u>Shift mode (press SHIFT)</u>
EQ (1-4)	EQ Bands Center Frequencies
SPECTRACOMP	TweeterTone adjust
TUBETONE	Preset/Memory Level Settings

When you haven't been using RH750's front panel controls for about twenty seconds, the RH750 will return to normal mode, where the knobs control the primary functions printed in white.

## 10 – MEM 1/2/3

RH750 features three user memories which allow you to effortlessly store and recall your favorite settings.

Storing settings is extremely simple:

- Dial in the settings that you like
- Press and hold one of the MEM buttons for circa two seconds
- When the MEM button blinks, your settings have been stored
- To recall a MEM setting, simply press the corresponding MEM button once

What is stored?

Any parameter that is operated by a light ring knob is stored. This means the settings of all front panel controls – apart from the Master level, the SHIFT and MUTE buttons – are stored.

Why MEM settings?

Even though many bass players tend to play with the same sound most of the time, a lot of them do have a couple of different basses, playing styles, pickup settings or other factors that require amp settings to be changed. We figured that it would be handy to simply push one button instead of fiddling with several knobs.

### Remote Control

RH750's optional remote control – “RC-4” – allows for floor recall of all three MEM settings as well as mute and tuner display.

# OPERATION – FRONT PANEL

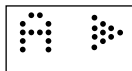
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## 11 – TUNER

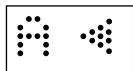
RH750 is equipped with a fully chromatic, high accuracy bass tuner. The tuner is always active, whether RH750 is in Mute mode or not. Here is how you read the display:  
The played note is shown on the *left* side of the display.

On the *right* side of the display,

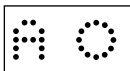
- a *circle* indicates that the note is in tune.
- an *arrow pointing right* indicates that the note is too low and should be tuned up.
- an *arrow pointing left* indicates that the note is too high and should be tuned down.



*Too low – tune up*



*Too high – tune down*



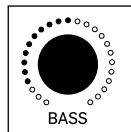
*In tune*

Sharp notes: C#, D#, F#, G# and A# are indicated as follows:

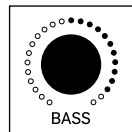


*Example – A#*

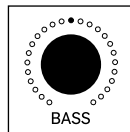
The tuner also offers a Mute mode with additional tuner information. To activate Mute mode, simply press the MUTE button. Now the BASS tone control turns into a high resolution pitch indicator supporting the Note and Arrow field of the tuner.



*Too low – tune up*



*Too high – tune down*



*In tune*

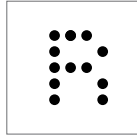
Tuner information is also displayed in the optional RC-4 footswitch. Yes, this is correct: If you have a RC-4 footswitch, you do no longer need a separate tuner. Please refer to the manual section “RC-4” to learn more about this footswitch.

## Tuner Reference

RH750's default tuner reference is 440 Hz – just like any other tuner. However, you can select any reference frequency between 438 and 445 Hz.

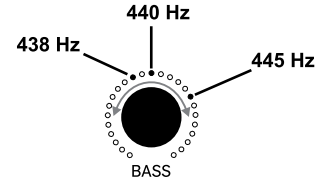
This is how you select the tuner reference frequency:

- If RH750 is switched on, switch it off.
- Press and hold the MUTE button during power up.
- RH750 now powers up in Tuner reference mode, which is illustrated by an "R" in the Display (see illustration below).



*Tuner Reference mode*

- Dial the BASS tone control to alter the tuner reference. The center position equals 440 Hz, and each LED represents one Hertz. So to set the tuner reference frequency e.g. to 438 Hz, turn the BASS knob counter-clockwise until the second LED on the left lights up.

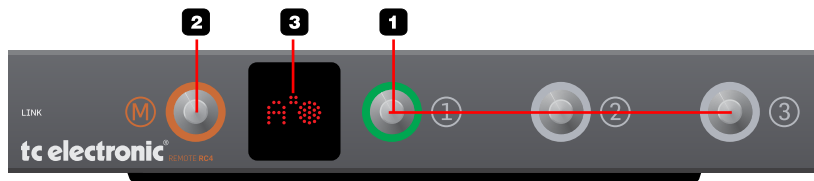


- Press the MUTE button to exit Tuner Reference mode.



Please note that the tuner's reference frequency is remembered even after powering the unit off.

## RC-4



The optional RC-4 footswitch not only allows you to remotely access the RH750's three memory locations (MEM 1/2/3), but also to mute the signal for silent tuning and even view the tuner information. No power-supply is needed for the RC-4 as it receives its power from RH750.

### 1 – Memory Switches 1, 2 and 3

Press one of the three numbered buttons to recall the settings stored in the associated MEM location. A green light ring around the switch indicates that this MEM setting has been recalled (activated).

- Note that you can only recall a MEM setting if a setting has actually been stored in a memory location.
- Also note that as soon as you change one of the stored settings on the RH750 front panel, the green light ring on the footswitch will be unlit. This indicates that the positions of the front panel knobs no longer correspond to the stored settings.

### 2 – MUTE button

Press the M(ute) button to mute the RH750's outputs. This is useful for tuning or e.g. unplugging/changing your bass.



The MUTE button also mutes the RH750's balanced output, allowing you to tune silently, even when connected to the PA system.

### 3 – DISPLAY

The display always indicates tuner information in a couple of different ways. The detected note is shown on the left side. On the right side of the display, a circle indicates that the note is in tune, an arrow pointing to the right indicates that the note should be tuned up, and an arrow pointing to the left indicates that the note should be tuned down. In addition to these indications (that are also shown on the RH750 tuner display), a line of nine dots below the display indicates how far from the target pitch the currently played note is. When only the center dot is lit, the note is in tune.



*Too low – tune up*



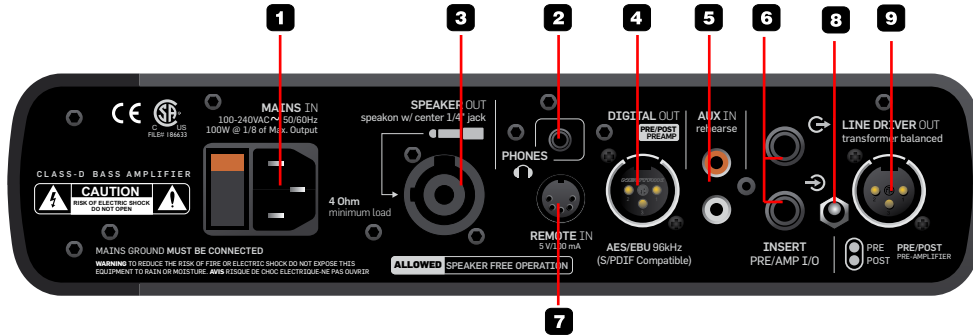
*Too high – tune down*



*In tune*



## Rear Panel



### 1 – MAINS IN – Power In & POWER switch

The RH750's auto-sensing switchmode power-supply accepts any mains voltage from 100 to 240 volts – you do not have to change settings, fuses or anything else. Simply connect a standard IEC three pin connector to the local mains voltage, and you are up and running. This is particularly handy when you use the RH750 on a tour.

The ground pin of the PSU must be connected in order to avoid voltage differences between e.g. the PA and the RH750.

### 2 – PHONES

This is a 1/8" mini-jack connector for headphones. Our studio quality headphone amp – with a mild speaker filter added to the

bass sound – caters for great sound in the headphones.

The headphone output also plays back any signal connected to the AUX IN ("Rehearsal") input jack found on the rear panel of the RH750. This feature allows you to play along with e.g. an MP3 player (e.g. an iPod®), a signal from a computer soundcard or any other audio source playing background tracks – excellent for rehearsing or checking out new tracks without disturbing the neighbors.

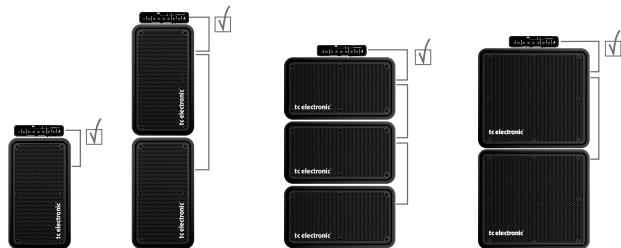


Notice that the RH750 works equally well with or without a speaker cabinet connected.

# OPERATION – REAR PANEL

## 3 – SPEAKER OUT

Use the SPEAKER OUT combo connector for connecting the RH750 to your cabinet(s). You can use a speaker cable with either Speakon or ¼" jacks. Do NOT use instrument cables! The RH750 can be used to drive any cabinet combination of up to three RS cabinets, or any other cabinet combination with a 4 Ohm minimum load.



## 4 – DIGITAL OUT

Use the DIGITAL OUT to connect RH750's digital output stage directly to a digital audio device, such as a computer's audio interface. This way, you can record your bass sound straight into Pro Tools, Logic or any other DAW application. The digital output signal is in 96 kHz/24 Bit AES/EBU format. This ensures the highest possible resolution and quality of your recorded bass signal. To determine where in the signal chain the signal for the digital output should be tapped, use the PRE/POST switch located right beside the LINE DRIVER OUT jack on the RH750's

rear panel. Your bass signal is present on both Left and Right digital channel.

### Setting up for recording:

In order to record straight from RH750's digital output, follow these steps:

- Connect RH750's DIGITAL OUT to your DAW.
- Set your DAW to sync/slave to "external clock".
- Hit the record button in your DAW and start playing.

### **Digital Out - SPDIF Compatibility**

While a simple XLR to RCA converter may suffice to allow recording through an SPDIF interface, please note that AES/EBU and SPDIF have different level and impedance specifications, which in some cases can cause compatibility problems.



**If you want to record with an analog signal instead, you may also use the RH750's balanced output signal from the LINE DRIVER OUT jack.**

## 5 – AUX IN Rehearse

Stereo Rehearsal Auxiliary Input.

Any signal present on the stereo AUX IN jacks is played back through the PHONES output on the rear of the RH750. This allows you to play along with a rehearsal track when checking out new stuff or to practice to a beat or just a metronome click. The included "Mini jack to RCA" cable allows you to use iPod®, iPhone® or any other consumer playback device as a source for rehearsing.



## 6 – INSERT PREAMP I/O – Effects Loop/Break point

These jacks provide a break point between RH750's *preamp* section (which includes SpectraComp™, Tone controls and the TubeTone™ module) and the *power amp* section. This break point can be used as a regular serial effects loop for inserting e.g. modulation effects or other external devices.

## Linking Two Amps

The break point may also be used to link two RH750 units together to achieve even more power.

- Use a standard ¼" jack instrument cable to connect the first RH750 PRE-AMP OUT (the upper) to the second RH750's POWER-AMP IN (the lower jack).
- Plug your bass into the INPUT jack on the first RH750 and adjust your sound using the controls on this RH750.
- Set the volume using the MASTER volume knobs of both amps. You now have tons of amplification power at your fingertips!



## 7 – REMOTE IN

Use the REMOTE IN jack to connect the RH750 to the optional footswitch/remote "RC-4".

The RC-4 gives you access to the three memory locations, the mute function, and has tuner indication as well.



The RC-4

## 8-9 – LINE DRIVER OUT – Balanced Line Out

Use the LINE DRIVER OUT jack to connect your RH750 to the PA when you play on stage or to connect it to a recording device when you are in the studio.

To set where in the signal chain the signal for the balanced output should be tapped, use the PRE/POST switch (8), located right next to the LINE DRIVER OUT jack.

## OPERATION REAR PANEL

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RH750's MUTE button mutes both the speaker and DI outputs. This means that you can tune up with no sound going to your own rig or to the PA.

RH750's balanced output has been designed with the utmost care for the sound. This is achieved through a galvanic isolated transformer coupling. The active design by far outperforms most standard DI boxes around, and it is capable of driving long cable hauls. No phantom power is required.

### Ventilation

*Be sure not to cover the black cooling plate of the RH750 amplifier!* Insufficient ventilation may cause the amplifier's temperature to increase.



If your RH750 is insufficiently ventilated, it may go into Heat Protection mode, which is indicated by an "H" on the front panel display. Please read more on the following page.

### Protection mode

RH750 is equipped with an intelligent protection system, ensuring that the amp does not suffer or malfunction if operated wrongly or in extreme environments.

#### General Protection mode

If the RH750's display indicates "P", the amp is in *Protection mode*.

Protection mode is invoked if for some reason a short-circuit situation occurs. In Protection mode, the speaker outputs are shut off so that the speakers cannot be damaged by a shortcut. The balanced output, digital recording out and the effects loop, however, are still passing audio in Protection mode.

To remedy the problem, try turning off your RH750 for a minute and then turn it on again. If the display still indicates "P", you will have to send your RH750 to a qualified service-center for inspection.

#### Heat Protection Mode

If the display indicates an "H", the amp is too hot. This is rarely seen, but a few extreme situations can invoke this mode:

- a) If the amplifier is used in an environment that is too hot, or if proper ventilation is not ensured.
- b) Cabinets or combinations of cabinets must load the amplifier with a minimum of 4 Ohm. A maximum of three RS cabinets can be used or two 8 Ohm cabinets of any other brand. If e.g. the speaker output is loaded with only 2 Ohm or less and you drive the RH450 at very high volumes over a long period of time, the amplifier enters Heat Protection mode.

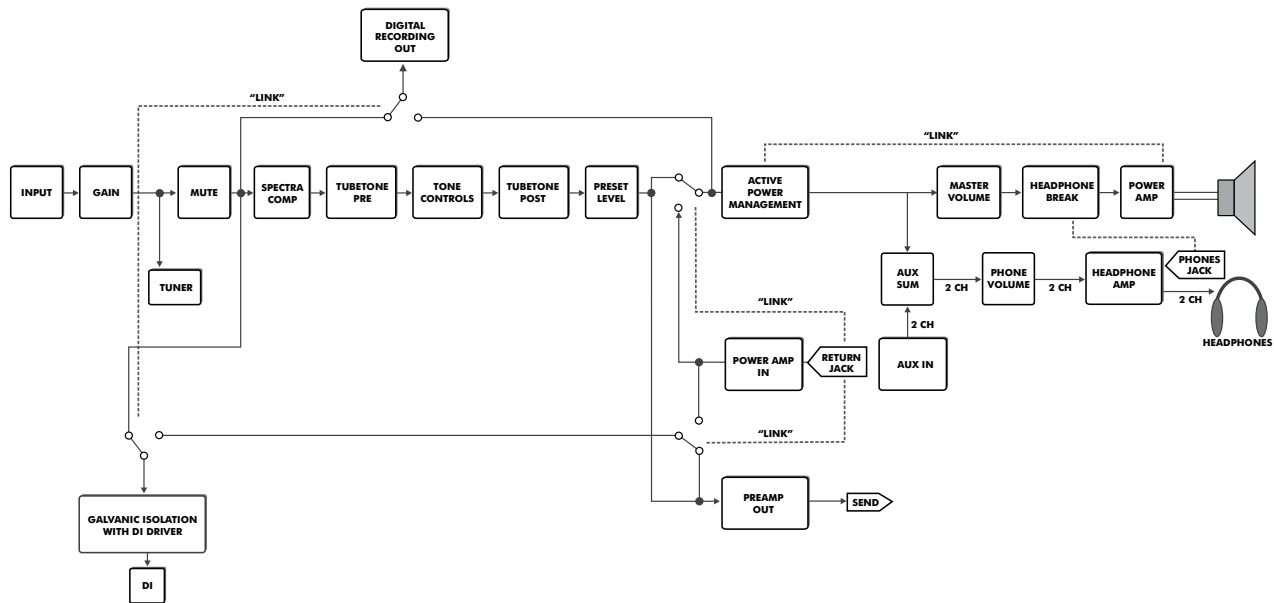
#### In both situations, proceed as follows:

- Turn off the amplifier.
- Solve the issues.
- Allow the amplifier to cool off for a few minutes.
- Turn on the amplifier again.



Notice that due to RH750's protection features the amplifier will NOT be damaged if a wrong Load Impedance setting is selected.

# APPENDIX – SIGNAL FLOW



# APPENDIX – TECHNICAL SPECIFICATIONS

## Input Section

Input connector	1/4" jack
Input impedance	1 MOhm / 100 pF
Gain range	-96 to 32 dB

## Tone controls

Bass	Default Freq: 200 Hz (range: 71-1120 Hz, Gain: +15/-24 dB) - Shelving type.
Low Mid	Default Freq: 400 Hz (range: 100-1600 Hz, Gain: +15/-24 dB)
High Mid	Default Freq: 800 Hz (range: 200-3150 Hz, Gain: +15/-24 dB)
Treble	Default Freq: 4000 Hz (range: 400-6300 Hz, Gain: +15/-24 dB) - Shelving type.
TweeterTone	-12 to 12, L-PAD Cabinet Recreation
TubeTone	0 to 12, Tube amp Recreation
SpectraComp	3 band Spectral Compression
Preset Level	-12 dB to 0 gain attenuation
User Memories	3 memory locations storing all front panel controls except Mute & Master Level

## Tuner

Tuning range	Chromatic, constant on A0 (27.50 Hz) to E5 (659.26 Hz)
Mute	Mutes speaker out, Phones out and Balanced out
Master Level Headphone	
Output	Studio quality headphone amp
Impedance	40 to 600 Ohm
Mains supply	100-120V~ or 220-240V~ 50/60 Hz (100 W @ 1/8 Power)
Speaker out	Combined Speakon / 1/4" jack
Power rating	750 W (1200 W Peak)
Balanced output	Transformer Balanced XLR, Pre/Post Pre-amp

Max. Output	+0 dBu
Optimal Load Impedance	600 Ohm
Preamp out	1/4" Jack, Balanced Output, Max Output Level = +8 dBu
Power amp in	1/4" Jack, balanced input, impedance = 10 kOhm, Max Input Level = +8 dBu
Rehearsal input	RCA, Left/Right input, fits to iPod ®
Digital Recording out	Balanced XLR, AES/EBU, (24 Bit)
Remote connection	5 pin DIN, Cable with shield

## Operating/Storage

Temperature	0° C to 50° C / -30° C to 70° C
Humidity	Max. 90 % non-condensing
Dimensions	275 x 290 x 66 mm / 10,8" x 11,4" x 2,6"
Weight	4kg / 8.8 pounds
Finish	Anodized aluminum front plated and painted steel chassis

**Due to continuous development, these specifications are subject to change without notice.**

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