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USERS MANUAL

Elmwood

*Bonneville
50*

ALL TUBE
PROFESSIONAL
GUITAR-AMPLIFIER



1. Connect the amplifier to the mains .
2. Make sure the internal speaker(s) is connected to the 8 ohm jack socket . If use with internal and/or external speaker cabinets , make sure the impedance matching is correct - Ohms law , 2*8 ohms speakers equals 4 ohms , 2*16 ohms speakers equals 8 ohms.

***Note :** Never operate the amplifier without a connected speaker . This can cause severe damage to the amplifier.*

3. Connect the footswitch's plug marked 1 to jack socket 1 and the plug marked 2 to the jack socket 2 on the back panel of the amplifier.
4. Set the switch marked " Power" to position on.
5. Allow the amplifier to build up filament and bias voltages for approximately 30 seconds.
6. Before switching the "Standby" switch to position on , check that Master 1 and Master 2 are set fully counter clock wise.
7. Switch the "Standby" switch to position on.

The amplifier is now ready for use.

Plug in your guitar in the Input jack socket.

Footswitch jack sockets

Connect the Footswitch to it's respectively jack socket The Footswitch jack sockets can also be operated from a Patch bay / MIDI switcher. This allows all the Footswitch's functions through a MIDI operated unit .

Mains input

Connect the amplifier to a earthed mains outlet .

Fuse 1 AT

Replace broken fuse only with the same type - Voltage/Current. The fuse is a 1 Ampere / 250 Volts slow blow .

Preamp tubes	4 * ECC83/12AX7WA
Poweramp tubes.	2 * EL 34
Poweramp mode	Ultralinear Push-Pull class AB
Output power	45 Watt at 5% THD
Powerconsumption.	Max 175 Watt
Speaker	Celestion Vintage 30™
Dimensions (W*D*H).	58,5*27,5*50 cm
Weight	27 Kg
Dimensions	
Footswitch (W*D*H).	21*11*5 cm

Specifications are subject to change without notice!

The Back panel

On the back panel there are 4 speakers outputs for connecting internal and/or external speakers .

Presence

The Presence control is global - it affects both Channels.
Adjusting this will add more high mid / treble to the sound .

Reverb

A four spring Accutronics™ Reverb. Adjusting the Reverb knob will add room to the sound. Also global - affects both Channels.

Mix

Mixing control for the F/X loop. When set fully counter clock wise , at the 10% mark , the loop is in parallel mode . Only some of the effects connected in the Send and Return jack sockets are mixed in to the dry signal.

The internal signal path in the amplifier is not affected . By turning the Mix knob more and more clock wise , towards the 100% mark , will make the F/X loop become more and more serial. When turned fully clock wise the F/X loop is in serial mode. The signal path in this mode is : preamplifier-the connected effect unit- poweramplifier. The whole internal signal is now going through the connected effect unit.

This might colour the sound.

The F/X loop is designed for stomp boxes , -10dB to -20 dB , but will operate with rack units as well.

The F/X loop is active on both Channels .

***Note :** Parallel mode suits time related effects such as Reverb , Delay .
Serial mode suits real-time related effects such as compressor , equalizer .*

Channel 1

With the footswitch engaged, press the Master 1 switch on the footswitch to make the Led light up.

The channel switch on the footswitch shall be set to channel 1 - the Led in dark position .

Set the controls : Volume , Treble , Middle and Bass to it's mid position .

Slowly turn up Master 1.

You should now be able to hear sound coming from the speaker(s).

Channel 1 is designed to be a clean channel as long as the Volume knob not accedes 12 to 1 o'clock, depending on what kind of guitar plugged in - singlecoils or humbuckers. After this position , 12 to 1 o'clock , the Volume knob turns into a Gain knob. You will notice that the Volume will not increase much while turning it up , it will only make the sound more distorted. For a cleaner sound -turn the Master1 up higher and back off the Channel 1's Volume knob.

The EQ section is very effective and you will not have any problem finding your favourite sounds.

Channel 2

To activate Channel 2 you must press the Channel switch on the footswitch so that the Led lights up . Channel 2 is designed to be a Crunch / Lead channel . Set the controls : Gain , Volume , Treble , Middle and Bass to it's mid position.

From here you should be able to dial in many different Crunch and Lead sounds by tweaking the Gain and the very effective EQ section.

Turning the Gain knob counter clockwise will decrease the Gain and cleaning up the sound .

Use the Channel 2's Volume knob to set a good balance between Channel 1 and Channel 2.

Boost

The Boost function is a Gain Boost that operates on both Channel 1 and Channel 2 .

To activate the Gain Boost ; press the switch marked "Boost" on the footswitch so that the Led lights up .

The toggle switch marked " Boost" on the front panel should be set to position "OFF" .

This is the footswitch operation mode for the Boost function.

When playing on Channel1 at a clean sound you can add a little distortion by activating the Boost function .

If playing with more distortion on Channel 1 - the Volume knob adjusted beyond 12 to 1 o'clock , you can go from blues Rhythm to blues Lead by activating the Boost function.

Even with the Boost activated the amplifier will restore it's touch sensitivity and dynamics.

When playing on Channel 2 you can go from crunchy Rhythm to singing Lead by activating the Boost function.

Note : Since the Boost function is a Gain Boost it will not affect the overall output Volume much.

The different settings with the Boost toggle switch

The toggle switch marked "Boost" on the front panel of the amplifier is a three way switch .

When set to :

ON: The Boost is activated at all time . This is to be able to activate the Boost without having the Footswitch connected.

OFF: This is the default mode when having the Footswitch connected . You can now switch the Boost on or off by pressing the switch marked Boost on the Footswitch .

Master 1: When set to this position the Boost will automatically be activated when Master 1 is chosen from the Footswitch. (More about Master 1 and Master 2 later). Even in this position you can still activate / deactivate the Boost function by

pressing the Boost switch on the Footswitch while playing on Master 2 .

*Note : The Boost Led on the Footswitch will not light up when Master 1 is activated .In this mode the Boost might affect the output Volume .
Make sure to adjust the Master 1 properly.*

The toggle switch marked Channel

Between Channel 1 and Channel 2 on the front panel of the amplifier is a toggle switch marked Channel.

This switch is to enable Channel switching when the Footswitch is not connected .

The two Master Volumes

The Bonneville 50 is equipped with two Footswitch able Master Volumes. This is to be able to have any sound you are playing on, in a louder version at any time.

The best way to get started with the two Master Volumes is to press the switch marked Master 1 on the Footswitch so that the Led lights up ; You are now in Master 1 mode.

Adjust the Master 1 to what you believe will be the loudest level you will be playing at.

Press the switch marked Master 1 again so that the Led will go dark. Now adjust the Master 2 to rhythm level.

You have now set a relationship between the two Master Volumes. If you find the overall Volume to be to silent or to loud , simply adjust Master 1 up or down and the Master 2 will follow . In level that is , not in rotation.

If you find the difference between the two Master Volumes to mismatch , adjust the relationship with Master 2.

Note : When the Footswitch is not connected , only Master 1 is active.