



Sk1

Sk2

Sk1-73

Sk1-88

EQUALIZER

EQUALIZER

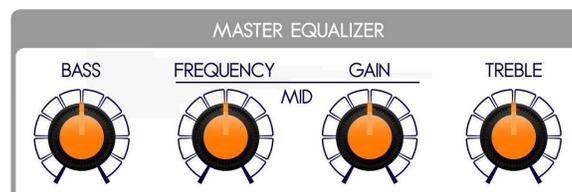
You can customize the tone quality of your Hammond Sk-series instrument by:

1. Using the MASTER EQUALIZER to tailor the sound of the Drawbars and Extra Voices simultaneously, or;
2. Using the EQUALIZER Advanced Feature Menu if you wish to adjust the frequency curves of the Drawbars and Extra Voices separately.

◆ What Is “Equalization”?

“Equalization” is a term used by sound engineers to describe changes or alterations they make to the character of sound. For example, if a piano is being “miked,” (its sound output being picked up by a microphone) and the tone needs to sound brighter or to have more bass, a sound engineer can increase or decrease the level of individual “frequency bands,” as they are called, to achieve just the desired effect. The “BASS” and “TREBLE” tone controls on a home stereo amplifier can be said to be a very elementary type of equalization. However, a true equalizer allows you control over more area of the frequency range than just “highs” and “lows.” The Equalizer functions of your Sk-series instrument have this capability.

◆ MASTER EQUALIZER



The MASTER EQUALIZER is located on the lower extreme right of the Control Panel. It allows you to adjust the overall frequency response of the entire instrument in real time.

BASS

This Rotary Control allows you to adjust the Bass (below 100Hz) frequencies by ± 9 dB.



MID FREQUENCY

This Rotary Control allows you to adjust which Mid-range frequency will be adjusted by the MID GAIN knob. The range is between 250Hz and 3.1kHz.



MID GAIN

This Rotary Control allows you to adjust the gain of the frequency set by the MID FREQUENCY knob.



TREBLE

This Rotary Control allows you to adjust the treble (above 8000Hz) frequencies.



◆ EQUALIZER Edit Menu

This Advanced Feature Menu allows you to adjust the tone quality of the Drawbars and Extra Voices individually.

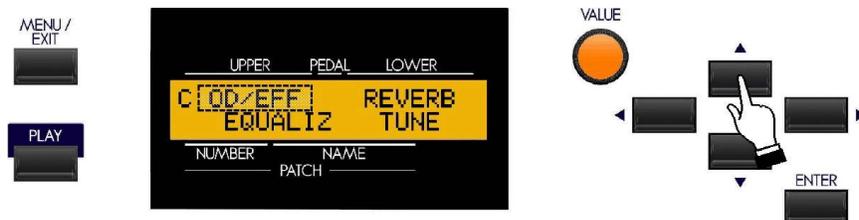
Drawbar Equalizer

To use the EQUALIZER Edit Menu to adjust the Drawbar sounds, do the following:

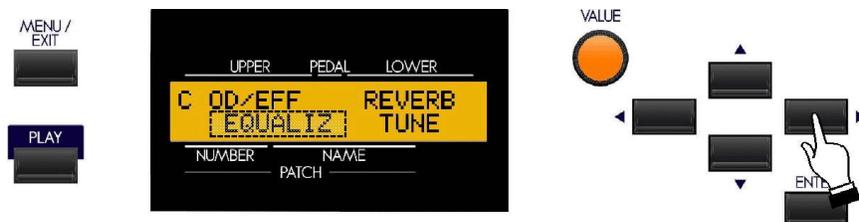
1. From the PLAY Screen, touch the MENU/EXIT Touch Button to see the first screen of the MENU Mode. You will see "A" displayed in the extreme upper left corner of the Information Center Display.



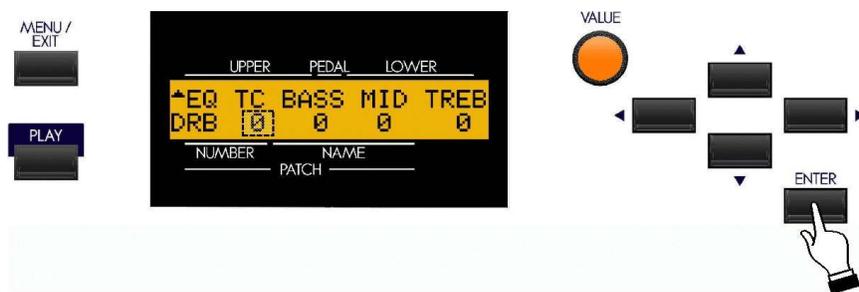
2. Touch the PAGE UP Touch Button **twice**. The legend, "OD/EFF" in the upper left corner of the Information Center Display will be blinking.



3. Touch the PAGE RIGHT Touch Button **once**. The Information Center Display should now look like this:



4. Touch the ENTER Touch Button. The Information Center Display should now look like this:



You are now in the first page of the EQUALIZER Edit Menu. You may now make various changes to the tonal quality of the Drawbars. These changes are explained starting on the next page.

EQUALIZER Edit Menu - Page 1

If you followed the instructions on the previous page, you should now see Page 1 of the EQUALIZER Edit Menu. The number underneath the word “TC” should now be blinking.



Drawbar Tone Control

This Advanced Feature simulates the tone control on the AO-28 preamp found in vintage B-3's and C-3's . On vintage organs, this control adjusts the treble response above 200Hz. You can select from “-9” (minimum treble) to “+9” (maximum treble). “-1” corresponds to the maximum of the original B-3 tone control, “-5”, the middle, “-9”, the minimum. The AO-28 tone control would only “cut” or attenuate the treble frequencies, but this Advanced Feature allows you to increase the treble as well.

Turn the VALUE Rotary Control to the **right** to **increase** the treble frequencies.

Turn the VALUE Rotary Control to the **left** to **decrease** the treble frequencies.

From the previous screen, touch the PAGE RIGHT Touch Button once. The number underneath the word “BASS” should now be blinking.



Drawbar Equalize

This Advanced Feature allows you to adjust the amount of Bass, Mid-range and Treble frequencies. You can select from “-9” (minimum amount) to “+9.” (Maximum amount). At “0,” the level is “flat.”

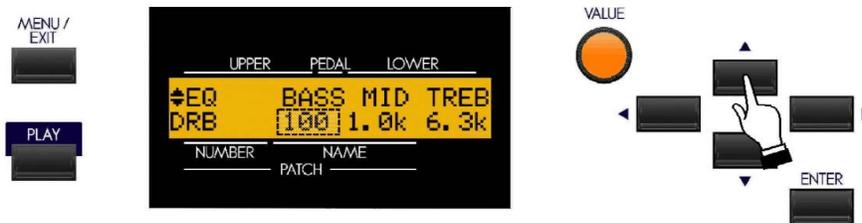
Use the PAGE LEFT and PAGE RIGHT Touch Buttons to move back and forth among “BASS, “MID” and “TREB.”

Turn the VALUE Rotary Control to the **right** to **increase** the selected frequency range.

Turn the VALUE Rotary Control to the **left** to **decrease** the selected frequency range.

EQUALIZER Edit Menu - Page 2

From the previous screen, touch the PAGE UP Touch Button ONCE. The number underneath the word “BASS” should now be blinking.



Drawbar Equalizer Central Frequency Adjust

This Advanced Feature allows you to adjust the central frequency of the Bass, Mid-range and Treble frequency bands. The data chart below shows the options you may select.

| DRAWBAR EQUALIZER Central Frequency Options | |
|---|-----------------|
| Description | Function |
| BASS | 20Hz ~ 200Hz |
| MID | 250Hz ~ 3.1kHz |
| TREB | 4.0kHz ~ 8.0kHz |

Use the PAGE LEFT and PAGE RIGHT Touch Buttons to move back and forth among “BASS, “MID” and “TREB.”

Turn the VALUE Rotary Control to the **right** to **increase** the selected frequency.

Turn the VALUE Rotary Control to the **left** to **decrease** the selected frequency.

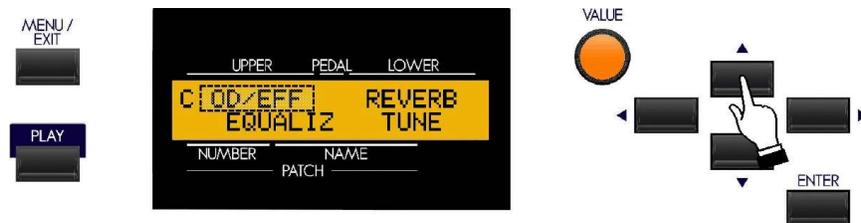
Extra Voice Equalizer

To use the EQUALIZER Edit Menu to adjust the Extra Voices, do the following:

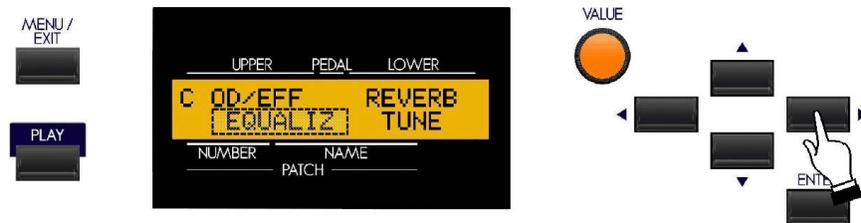
1. From the PLAY Screen, touch the MENU/EXIT Touch Button to see the first screen of the MENU Mode. You will see “A” displayed in the extreme upper left corner of the Information Center Display.



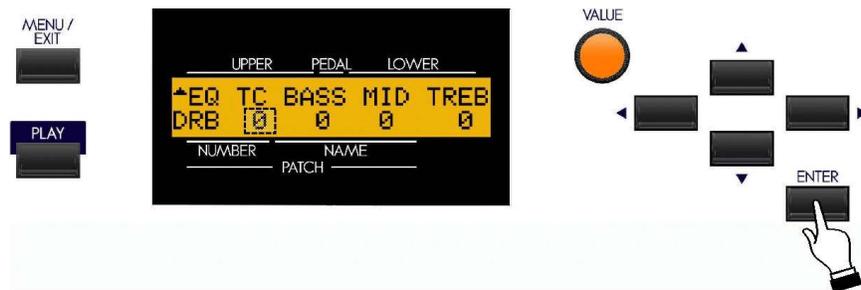
2. Touch the PAGE UP Touch Button **twice**. The legend, “OD/EFF” in the upper left corner of the Information Center Display will be blinking.



3. Touch the PAGE RIGHT Touch Button **once**. The Information Center Display should now look like this:



4. Touch the ENTER Touch Button. The Information Center Display should now look like this:



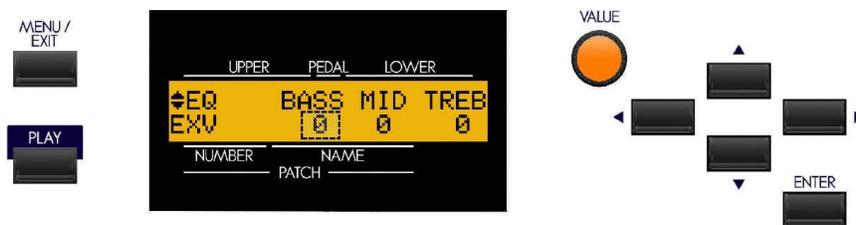
5. Touch the PAGE UP Touch Button **twice**. The Information Center Display should now look like this:



You are now in Page 3 of the EQUALIZER Edit Menu. You may now make various changes to the tonal quality of the Extra Voices. These changes are explained starting on the next page.

EQUALIZER Edit Menu - Page 3

If you followed the instructions on the previous page, you should now see Page 3 of the EQUALIZER Edit Menu. The number underneath the word “BASS” should now be blinking.



Extra Voice Equalize

This Advanced Feature allows you to adjust the amount of Bass, Mid-range and Treble frequencies. You can select from “-9” (minimum amount) to “+9.” (Maximum amount). At “0,” the level is “flat.”

Use the PAGE LEFT and PAGE RIGHT Touch Buttons to move back and forth among “BASS,” “MID” and “TREB.”

Turn the VALUE Rotary Control to the **right** to **increase** the selected frequency range.

Turn the VALUE Rotary Control to the **left** to **decrease** the selected frequency range.

EQUALIZER Edit Menu - Page 4

From the previous screen, touch the PAGE UP Touch Button once. The number underneath the word “BASS” should now be blinking.



Extra Voice Equalizer Central Frequency Adjust

This Advanced Feature allows you to adjust the central frequency of the Bass, Mid-range and Treble frequency bands. The data chart below shows the options you may select.

| EXTRA VOICE EQUALIZER Central Frequency Options | |
|---|-----------------|
| Description | Function |
| BASS | 20Hz ~ 200Hz |
| MID | 250Hz ~ 3.1kHz |
| TREB | 4.0kHz ~ 8.0kHz |

Use the PAGE LEFT and PAGE RIGHT Touch Buttons to move back and forth among “BASS,” “MID” and “TREB.”

Turn the VALUE Rotary Control to the **right** to **increase** the selected frequency.

Turn the VALUE Rotary Control to the **left** to **decrease** the selected frequency.