



HAMMOND®

Sk1

Sk2

Sk1-73

Sk1-88

**SPECIAL
PERFORMANCE
FEATURES**

SPECIAL PERFORMANCE FEATURES

◆ TRANSPOSE (Key Select)

This feature allows you to shift the musical key of the entire instrument. This is useful if you have a piece of music written in one key but which needs to sound in another key; for example, a song written and played in C Major, could sound in G Major. TRANSPOSE will step either up or down six (6) semitones or half-steps from the center position. The TRANSPOSE feature consists the TRANSPOSE Touch Tab, plus the DOWN and UP Touch Tabs immediately to the right of the TRANSPOSE Touch Tab. The DOWN Touch Tab allows you to transpose **lower** and the UP Touch Tab allows you to transpose **higher**.

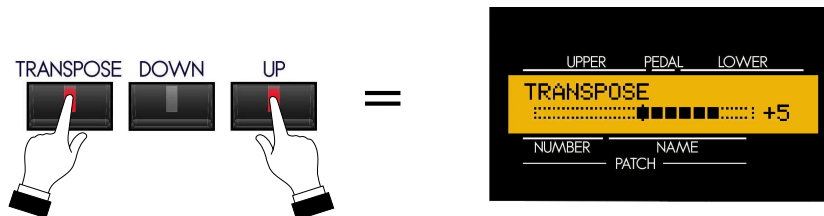


TRY THIS:

1. Make sure the instrument is un-transposed or playing in “concert” pitch (TRANSPOSE Touch Tab LED not lit).
2. Touch and Hold the TRANSPOSE Touch Tab and look at the Information Center Display to make sure it shows “+0.”



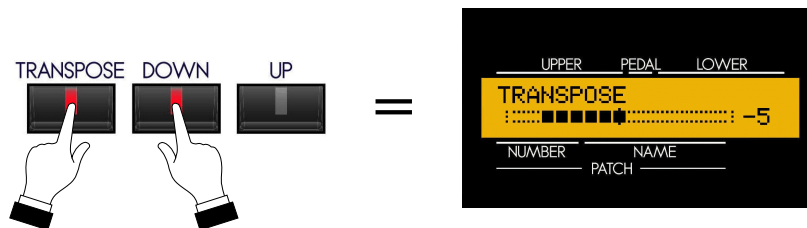
3. While continuing to hold the TRANSPOSE Touch Tab, touch the UP Touch Tab **five** times. The Information Center Display should show the following:



You have now transposed the entire instrument **up** five half-steps - when you touch a “C” note you will hear the note “F” above it.

4. Now Touch and Hold the TRANSPOSE Touch Tab and touch the DOWN Touch Tab repeatedly until the TRANSPOSE Touch Tab LED turns “OFF” and the Information Center Display shows “+0.” The instrument is now back to concert pitch.

- While continuing to hold the TRANSPOSE Touch Tab, touch the DOWN Touch Tab **five** times. The Information Center Display should show the following:



You have now transposed the entire instrument **down** five half-steps - when you touch a “C” note you will hear the note “G” below it.

To return the instrument to concert pitch, Touch and Hold the TRANSPOSE Touch Tab and touch the UP Touch Tab repeatedly until the TRANSPOSE Touch Tab LED turns “OFF” and the Information Center Display shows “+0.”

◆ CONTROL Edit Menu

This Advanced Feature Menu allows you to select the parameters for the various Controls that you prefer.

To access the CONTROL Edit Menu, do the following:

- From any of the PLAY Mode screens, touch the MENU/EXIT Touch Button **once**. The Information Center Display should now look like this:



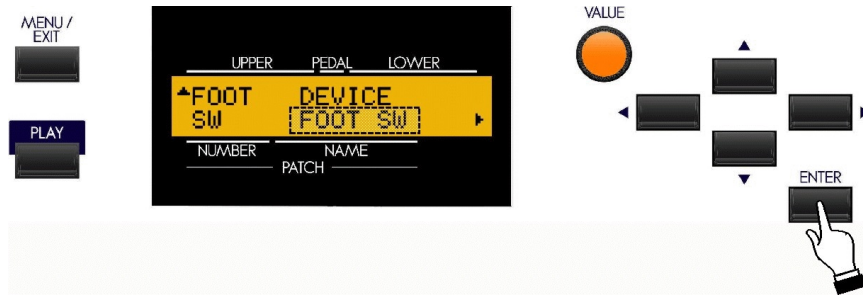
The word “DRAWBAR” should now be blinking.

- Touch the PAGE RIGHT Touch Button **three** times. The Information Center Display should now look like this:



The word “CONTROL” should now be blinking.

3. Now touch the ENTER Touch Button **once**. The Information Center Display should now look like this:



You are now in the CONTROL Edit Menu. You may now use the PAGE NAVIGATION Touch Buttons in conjunction with the VALUE Rotary Control to make changes to the characteristics of the various Controls. These changes are explained starting below.

◆ Navigating the CONTROL Edit Menu

The CONTROL Edit Menu consists of seven (7) Pages, each of which allows you to set the characteristics of a particular control.

Use the PAGE UP Touch Button to scroll **forward** through the Controls.

Use the PAGE DOWN Touch Button to scroll **backward** through the Controls.

The data chart below lists the pages in the order in which they appear in the Information Center Display scrolling forward using the PAGE UP Touch Button.

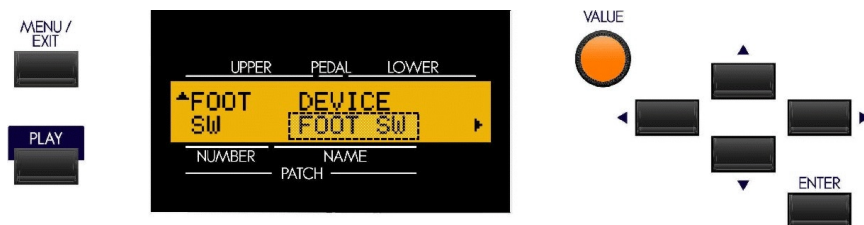
The data chart below shows the options you may select.

CONTROL Edit Menu Pages	
Description	Function
FOOT SW	The operation of a device connected to the FOOT SW jack on the Accessory Panel.
EXPR	The operation of a device connected to the EXP jack on the Accessory Panel.
GLIDE	Portamento, or bending of pitch.
DAMPER	The operation of a device connected to the DAMPER jack on the Accessory Panel.
OCT.BTN	The operation of the OCTAVE Touch Tab.
DISP	The settings for the Information Center Display.
KEYBOARD	The overall setting for the Keyboard(s).

Once you have made your CONTROL selection using the PAGE UP and PAGE DOWN Touch Buttons, use the PAGE LEFT and PAGE RIGHT Touch Buttons to select the individual parameters of each Control.

The following pages will describe each of the Advanced Features in the CONTROL Edit Menu. Each control will be described separately.

To display the FOOT SW Page of the CONTROL Edit Menu, follow the instructions shown on pages 2 and 3. You should see the screen shown below and the word “FOOT SW” should be blinking.



FOOT SW - Screen 1 - Foot Switch Device Select

The Foot Switch (FOOT SW) jack on the Sk-series instruments is set up to accept different types of devices. The data chart below shows the options you may select.

FOOT SWITCH DEVICE SELECT Options	
Description	Function
FOOT SW	A conventional foot switch such as the Hammond FS-9.
CU-1	Control Unit 1, a “half-moon” style speed switch, available as an optional accessory, which allows you to select the Leslie Speeds.

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



You will now see Screen 2 of the FOOT SW Edit Menu.

What Is “TRS?”

A typical accessory Foot Switch will connect to an instrument such as the SK by means of a plug similar to the one shown below.



TRS is an acronym for **Tip-Ring-Sleeve**, and refers to the fact that a connecting plug can have more than one connector. This means that more than one Foot Switch can be connected to the SK instrument, thereby allowing you to control more than one function using the same Foot Switch jack. If you wish to do this, you will need a Stereo Adapter which has a Stereo plug and two (2) Mono jacks.



Simply insert the Stereo plug into the FOOT SW jack on the SK instrument and connect a Foot Switch to each of the Mono input jacks. In most cases, the **Left** (L) input jack will access the Tip function while the **Right** (R) will access the Ring function.

Foot Switch Functions

There are 16 settings for the Foot Switch Menu. The data chart below explains each one.

Foot Switch Options	
Description	Function
OFF	Pressing the Foot Switch will have no effect.
LESLIE S/F ALT	Allows you to use the Foot Switch to switch back and forth between Leslie Slow and Fast Rotor Speeds. Each time the Foot Switch is pressed and released, the Leslie Rotors will change speeds.
LESLIE S/F MOM	Allows you to use the Foot Switch to switch Leslie Rotor Speeds. When the Foot Switch is pressed and held, the Leslie Rotors will go at Fast speed. When the Foot Switch is not engaged, the Leslie Rotors go at Slow speed.
LESLIE S/F TRI	Allows you to use the Foot Switch to switch back and forth between Leslie Slow and Fast Rotor Speeds similar to the ALT mode. Additionally, if the Foot Switch is pressed and held for longer than 1 second, the Leslie Rotors will go to the Off or Stop position.
*GLIDE	Allows you to use the Foot Switch to bend the pitch.
PATCH FWD	Allows you to use the Foot Switch to move forward through the Patches.
PATCH REV	Allows you to use the Foot Switch to move backward through the Patches.
FAVORITE FWD	Allows you to use the Foot Switch to move forward through the Favorites.
FAVORITE REV	Allows you to use the Foot Switch to move backward through the Favorites.
SPRING	Allows you to use the Foot Switch to add the sound of a Spring Reverb unit being jostled.
+DELAY TIME	Allows you to use the Foot Switch to add the Delay effect.
MUSIC START	Allows you to use the Foot Switch to start or stop the Music Player.
MANUAL BASS	Allows you to use the Foot Switch to triggers a Manual Bass note.
BASS 1C ~ BASS 3C	Allows you to use the Foot Switch to play a specific Pedal note.
P.CHORD CLOSE	Allows you to add ProChord harmony (closed voicing) to the organ section.
P.CHORD OPEN	Allows you to add ProChord harmony (open voicing) to the organ section.

* - You can adjust the parameters of the Glide function by accessing the GLIDE Page of the EFFECTS Advanced Feature Menu. This is explained in the OVERALL EFFECTS section of this Guide.

+ - You can adjust the parameters of the Delay effect by accessing the Delay portion of the EFFECTS Advanced Feature Menu. This is explained in the OVERALL EFFECTS section of this Guide.

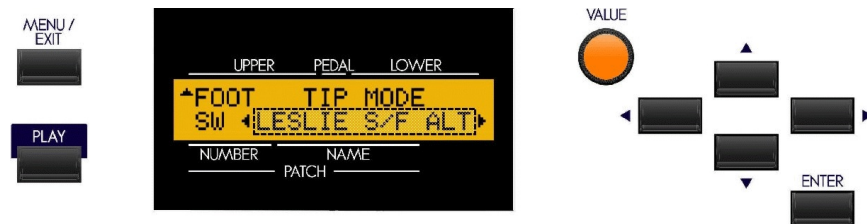
All of the above functions can be set for either Tip or Ring Mode. However, Ring Mode will have no effect if only one Foot Switch is connected to the FOOT SW jack. You can then use Tip Mode to select the function you want.

As explained on the previous page, a Stereo Adaptor must be plugged into the FOOT SW jack in order to use a Foot Switch in Ring Mode. The Foot Switch plugged into the Right receptacle will respond to functions set for Ring Mode.

NOTE: The plug-in receptacles on some commercially available adaptors may be marked TIP and RING for easier identification. Follow these markings when setting up your Foot Switches.

NOTE: The polarity of the connected Foot Switch(es) is automatically detected when the power to the instrument is turned "ON." Therefore, be sure to connect Foot Switches when the power is "OFF."

If you followed the instructions on page 4, you should now see Screen 2 of the Foot Switch portion of the CONTROL Edit Menu. The legend underneath the words “TIP MODE” should now be blinking.

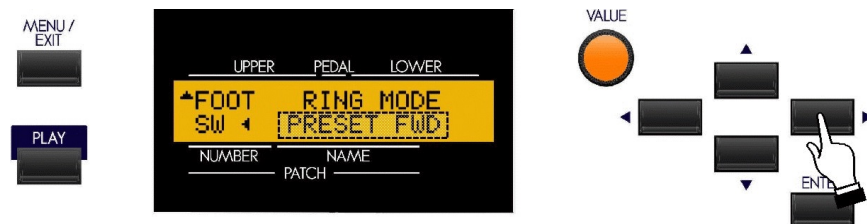


FOOT SW - Screen 2 - Foot Switch Tip Mode

This Advanced Feature allows you to select the function of the “Tip Mode” of a connected Foot Switch.

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



FOOT SW - Screen 3 - Foot Switch Ring Mode

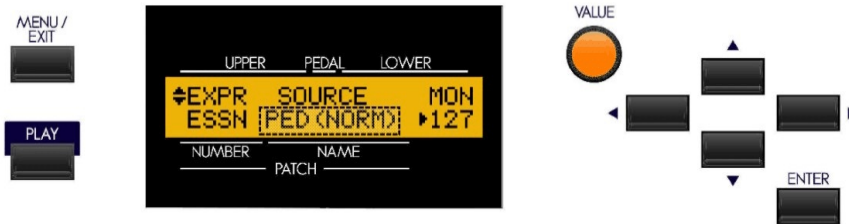
This Advanced Feature allows you to select the function of the “Ring Mode” of a connected Foot Switch.

Turn the VALUE Rotary Control to make your selection.

CONTROL Edit Menu - Page 2 - Expression Parameters

This Advanced Feature Menu allows you to control how a connected Expression Pedal will function.

From the previous screen, touch the PAGE UP Touch Button once, then touch the PAGE LEFT Touch Button four times. The Information Center Display should now look like this:



The legend underneath the word “SOURCE” should be blinking.

You are now in the portion of the CONTROL Edit Menu which pertains to Expression settings.

Use the PAGE LEFT and PAGE RIGHT Touch Buttons to move forward or backward through the various parameters.

The following pages will explain how to set the Expression parameters the way you want.

EXPR - Screen 1

Expression Source

This Advanced Feature allows you to select the source of expression control. The data chart below shows the options you may select.

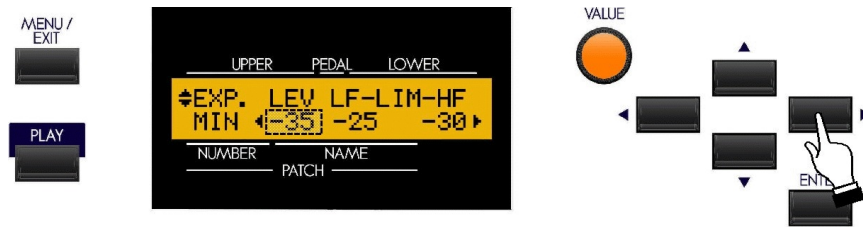
Expression Source Options	
Description	Function
PED (NORM)	Hammond EXP-50 Expression Pedal or compatible equivalent.
PED (REV)	Expression pedal having reversed polarity.
MIDI	MIDI Expression Data (controller #11) will be received at the UPPER keyboard channel.

Turn the VALUE Rotary Control to make your selection.

Expression Monitor (“MON”)

This is not really an Advanced Feature but is merely a way to display the current Expression Value, with “0” being minimum Expression (no audible sound) and “127” being maximum Expression. The Expression Monitor can be useful as a troubleshooting aid if you either don’t hear any sound or can’t change the volume using a connected Expression Pedal.

From the previous screen, touch the **PAGE RIGHT Touch Button** once. The Information Center Display should now look like this:



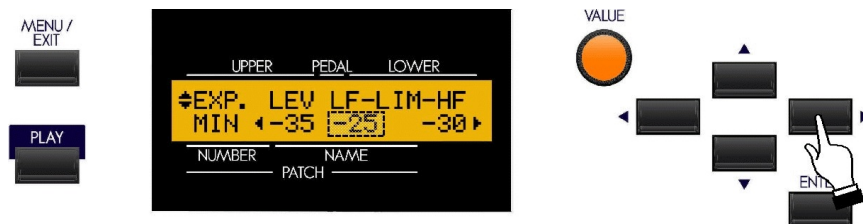
EXPR - Screen 2

Expression Minimum Level

This Advanced Feature allows you to set the amount of volume when the Expression Pedal is “closed,” or all the way back. You can select “OFF” (no sound when the pedal is closed) or from “-40dB” to “0dB.” The higher the number, the greater the volume will be.

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the **PAGE RIGHT Touch Button** once. The numbers just underneath “LF” should now be blinking:



Expression Low Frequency Limit

This Advanced Feature allows you to adjust the amount of Low Frequencies (below 800Hz) that will be heard when the Expression Pedal is set at minimum. You can select “OFF,” (no sound), or from “0db” to “-40db” (minus 40 decibels).

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the **PAGE RIGHT Touch Button** once. The numbers just underneath “HF” should now be blinking:

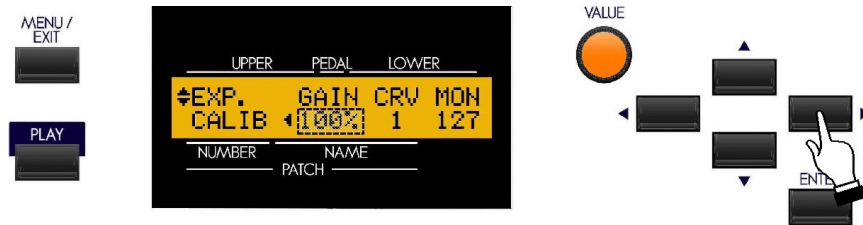


Expression High Frequency Limit

This Advanced Feature Menu Page allows you to adjust the amount of High Frequencies (above 800Hz) that will be heard when the Expression Pedal is set at minimum. You can select “OFF,” (no sound), or from “0db” to “-40db” (minus 40 decibels).

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



EXPR - Screen 3

Expression Gain

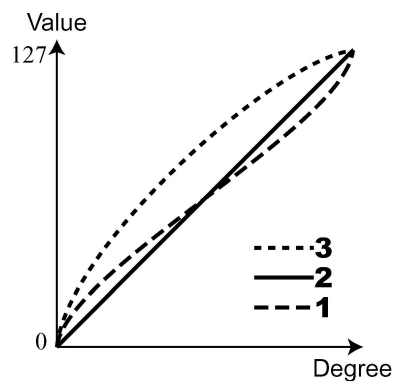
This Advanced Feature allows you to adjust the range of a connected Expression Pedal. You can select from “0” through “100%,” however, the amount of actual audible change may differ depending on the specific Expression Pedal used. Use this Advanced Feature to obtain the desired response from your particular pedal.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



Expression Curve

This Advanced Feature allows you to set the “curve,” or change of expression value corresponding to the angle of the Expression Pedal when depressed. The diagram below shows the options you may select.



Turn the VALUE Rotary Control to make your selection.

NOTE: You will also see “MON” on the extreme right side of the display. This is the Expression Monitor which, as explained on page 7, is not an Advanced Feature but merely displays the current Expression Value, with “0” being minimum Expression (no audible sound) and “127” being maximum Expression.

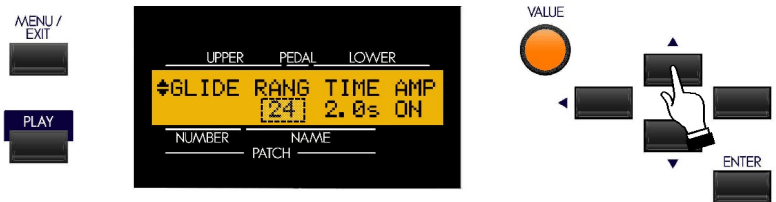
CONTROL Edit Menu - Page 3

GLIDE Functions

The word, “**Glide**,” is a term used to designate the ability to bend the pitch using a Foot Switch, either on the side of an Expression Pedal, or a separate Foot Switch. It is called “Glide” in order to differentiate it from “Pitch Bend,” which is bending the pitch by means of a wheel control.

IMPORTANT NOTE: You will hear the effects of these settings ONLY if you have GLIDE selected as a Foot Switch function.

From the previous screen, touch the PAGE UP Touch Button once. The Information Center Display should now look like this:



The legend underneath the word “RANG” should be blinking.

You are now in the portion of the CONTROL Edit Menu which allows you to select the characteristics of the Glide function.

RANG - Glide Range

This Advanced Feature Menu Page allows you to set the pitch range of the Glide. You can select from “-24” (down two octaves) through “+12” (up one octave).

Turn the VALUE Rotary Control to the **right** to cause the Glide to bend **up**.

Turn the VALUE Rotary Control to the **left** to cause the Glide to bend **down**.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



The legend underneath the word “TIME” should be blinking.

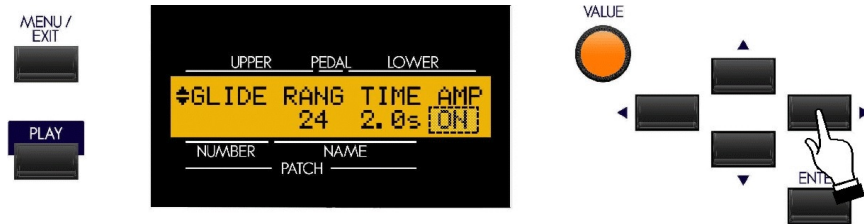
TIME - Glide Time

This Advanced Feature Menu Page allows you to set the amount of time for the Glide effect. You can select from “0.1” (one-tenth of a second) to “5.0” (5 seconds).

Turn the VALUE Rotary Control to the **right** to **increase** the Glide Time.

Turn the VALUE Rotary Control to the **left** to **decrease** the Glide Time.

From the previous screen, touch the **PAGE RIGHT** Touch Button once. The Information Center Display should now look like this:



The legend underneath the word **“RATE”** should be blinking.

AMP - Glide Amplitude

This Advanced Feature Menu Page allows you to add a change in volume or Amplitude to the Glide effect. The data chart below shows the options you may select.

GLIDE AMPLITUDE Options	
Description	Function
ON	When the Glide effect is used, the volume will gradually decrease until no sound is heard at the completion of the pitch excursion.
OFF	The Glide effect works normally - there is no change in volume.

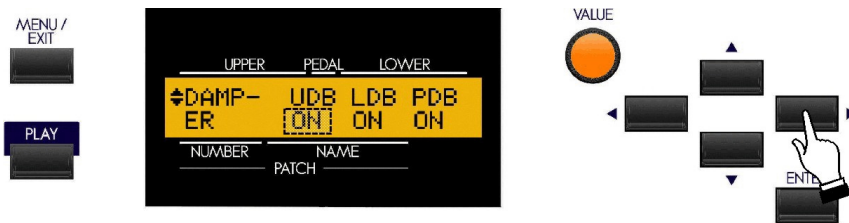
Turn the VALUE Rotary Control to make your selection.

CONTROL Edit Menu - Page 4

DAMPER Functions

As explained on page 2, you can connect a foot switch to use as a Damper or piano-type Sustain pedal. This Advanced Feature Menu Page allows you to select which Voice Sections of the instrument will be affected when a Damper pedal is used.

From the previous screen, touch the **PAGE UP** Touch Button once. The Information Center Display should now look like this:



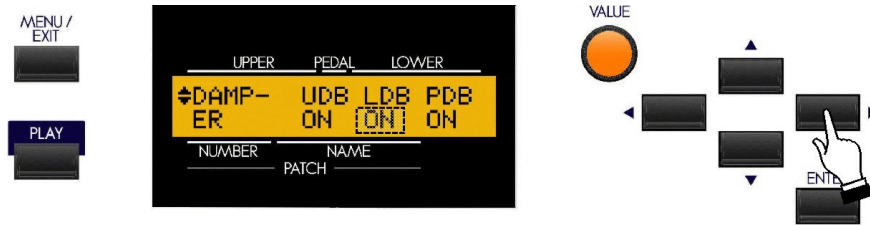
The legend underneath the word **“UDB”** should be blinking.

DAMPER - Upper Manual Drawbars

This Advanced Feature allows you to turn the Damper function “ON” or “OFF” for the Upper Manual Drawbars.

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



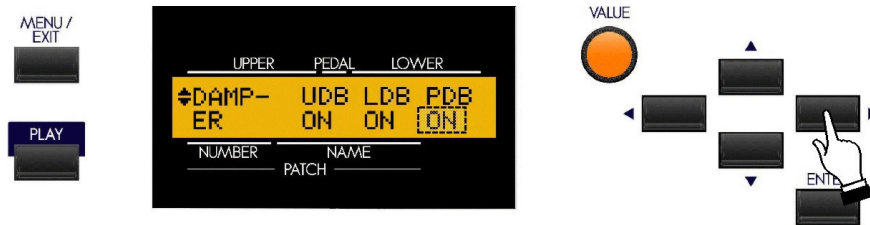
The legend underneath the word “LDB” should be blinking.

DAMPER - Lower Manual Drawbars

This Advanced Feature allows you to turn the Damper function “ON” or “OFF” for the Lower Manual Drawbars.

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



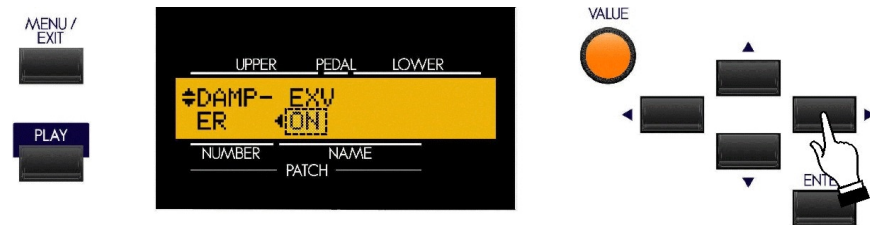
The legend underneath the word “PDB” should be blinking.

DAMPER - Pedal Drawbars

This Advanced Feature allows you to turn the Damper function “ON” or “OFF” for the Pedal Drawbars.

Turn the VALUE Rotary Control to make your selection.

From the previous screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



The legend underneath the word “EXV” should be blinking.

DAMPER - Extra Voice

This Advanced Feature allows you to turn the Damper function “ON” or “OFF” for the Extra Voice section.

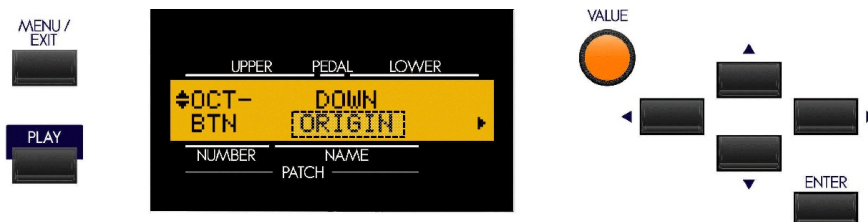
Turn the VALUE Rotary Control to make your selection.

CONTROL Edit Menu - Page 4

OCTAVE Touch Button Functions

This Advanced Feature Menu Page allows you to select different functions for the OCTAVE Touch Buttons.

From the previous screen, touch the PAGE UP Touch Button once, then touch the PAGE LEFT Touch Button once. The Information Center Display should now look like this:



The legend underneath the word “DOWN” should be blinking.

You can now select different functions for the OCTAVE DOWN, OCTAVE UP and LOWER Touch Buttons.



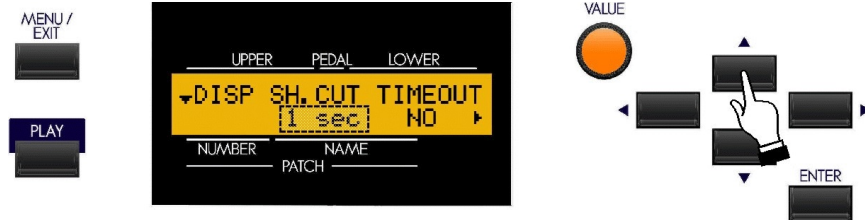
The data chart below shows the options you may select.

OCTAVE Touch Buttons Functions	
Description	Function
ORIGIN	The selected Touch Button will perform its original function.
LES STOP	The selected Touch Button will stop the Leslie rotors.
LES FAST	The selected Touch Button will switch the Leslie rotors to FAST.
VIB UPPER	The selected Touch Button will turn the Vibrato effect “ON” for the Upper Manual.
VIB LOWER	The selected Touch Button will turn the Vibrato effect “ON” for the Lower Manual.
GLIDE	The selected Touch Button will activate the Glide effect.
SPRING	The selected Touch Button will produce the effect of jostling a spring-type Reverb unit.
DELAY TIME	The selected Touch Button will allow you to program the Delay Time by touching it repeatedly at the desired rate. Touching and Holding the button will turn the Delay effect “OFF.”

Use the PAGE LEFT and PAGE RIGHT Touch Buttons to select “DOWN,” “UP,” or “LOWER.”

Turn the VALUE Rotary Control to select the function once you have selected the Touch Button you want to change.

From the previous screen, touch the PAGE UP Touch Button once. The Information Center Display should now look like this:



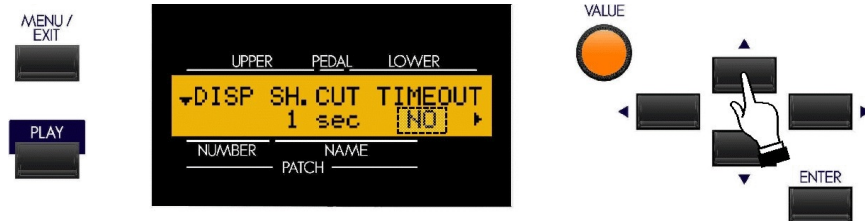
The legend underneath “SH.CUT” should be blinking.

Display Shortcut Time

This Advanced Feature allows you to select how long a Touch Tab must be held before the Advanced Feature Menu Page controlled by that Touch Tab appears. You can select from “0” to “2” seconds or “NO” (the Shortcut feature is disabled).

Turn the VALUE Rotary Control to make your selection.

From the above screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



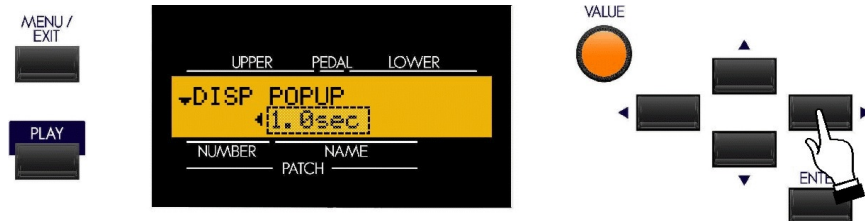
The word underneath “TIMEOUT” should be blinking.

DISPLAY TIMEOUT

This Advanced Feature allows you to select how long the Information Center Display will continue to display an Advanced Feature Menu Page before reverting to PLAY or MIXER Modes. You can select “4,” “8,” or “16” seconds or “NEVER” (a Menu will continue to display until another page is selected). You can select the time for Advanced Feature Menu Pages or Voice & Style displays separately.

Turn the VALUE Rotary Control to make your selection.

From the above screen, touch the PAGE RIGHT Touch Button once. The Information Center Display should now look like this:



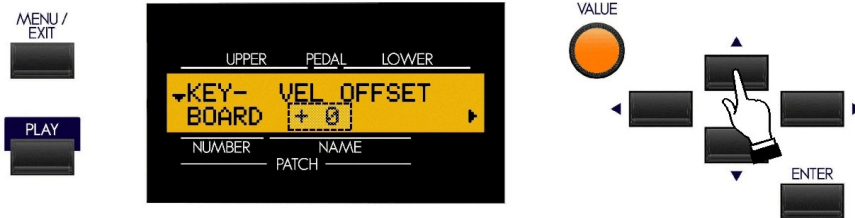
The legend underneath “POPUP” should be blinking.

DISPLAY TIMEOUT

This Advanced Feature allows you to select how long the Information Center Display will continue to display an Advanced Feature Menu Page before reverting to PLAY or MIXER Modes. You can select “4,” “8,” or “16” seconds or “NEVER” (a Menu will continue to display until another page is selected). You can select the time for Advanced Feature Menu Pages or Voice & Style displays separately.

Turn the VALUE Rotary Control to make your selection.

From the above screen, touch the PAGE UP Touch Button once. The Information Center Display should now look like this:

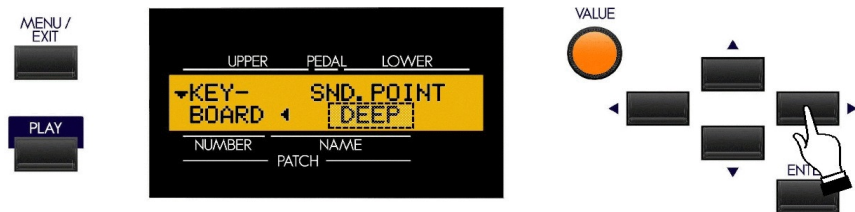


The number underneath “VEL OFFSET” should be blinking.

VELOCITY OFFSET

This Advanced Feature allows you to adjust the keyboard velocity to your personal taste or playing style. You can select from “-32” to “+32” with “0” being the normal setting. Use the “minus” numbers for a heavy touch and the “plus” numbers for a lighter touch.

From the above screen, touch the PAGE UP Touch Button once. The Information Center Display should now look like this:



The word underneath “SND POINT” should be blinking.

SOUNDING POINT

This Advanced Feature allows you to set the point along the key travel at which sound is produced.

The data chart below shows the options you may select.

KEYBOARD SOUNDING POINT Options	
Description	Function
DEEP	Both the Drawbar and Extra Voice tones will sound at the deep point along the keystroke.
AUTO	The Drawbar voices will sound at a shallow point along the keystroke if no EXTRA VOICE tone is registered.

NOTE: If AUTO is selected with no EXTRA VOICE tone, the External Zone notes will sound at the shallow point with a fixed velocity value of 100.

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