

HAMMOND



Sh **PRO**

**USING
MEMORY**

USING MEMORY

Your Hammond SK PRO is equipped with two (2) USB Ports - one marked TO HOST, the other marked TO FLASH DRIVE. The TO HOST Port is covered in the SPECIAL UTILITY FEATURES chapter of this Guide. This chapter will explain the one marked TO FLASH DRIVE.

“USB” is an acronym for Universal Serial Bus), which is a method developed in the mid-1990s for allowing connection, communication and power supply between computers and electronic devices. There have been several revisions to the USB protocol since it was first introduced which are distinguished from one another by version numbers. As with software version numbers, the higher the number the more recent the revision. The most common is USB 3.0, which is the version supported by the SK PRO.

Many different USB-compatible electronic devices - digital cameras, GPS navigation systems, etc. - are now available; however, the USB Port on the SK PRO designed for use with a USB Flash Drive (example pictured below):



A USB Flash Drive is so-called because it includes what is called flash memory with an integrated Universal Serial Bus (USB) interface. USB Flash Drives are available in many different memory capacities; however, 1 or 2 Gigabytes (Gb) will be enough for the applications unique to the SK PRO.

The term, “drive” is not technically accurate since no moving parts are involved; however, since the same types of operations are used with a USB Flash Drive as for an old-style floppy disk drive, the “drive” terminology is still used - much in the same manner as the term “Patch” is used even though modern-day synthesizer- type instruments do not utilize patch cords.

On the SK PRO, a USB Flash Drive allows you to:

1. Save Patches, Setups and Custom Sets,
2. Load previously stored Patches, Setups or Custom Sets from a USB Flash Drive into the SK PRO,
3. Install software upgrades to the SK PRO operating system.

The following pages will explain how to do each operation.

IMPORTANT NOTE: Due to the great variety of USB Flash Drives available, be sure to select one which is compatible with the SK PRO instruments. The following have been tested and confirmed to be compatible:

Kingston
Lexar
PNY
SanDisk
Emtek

◆ Preparing a USB Flash Drive for use with the SK PRO

In order to use a USB Flash Drive with the SK PRO, several special directories or Folders have to be created on the Flash Drive itself. The SK PRO has a facility that Formats the drive and automatically creates these directories for you. However, if you wish to Format a Flash Drive manually, the following paragraphs will explain this in detail.

◆ Formatting a USB Flash Drive

To format a USB Flash Drive for the SK PRO, do the following:

1. Locate a USB Flash Drive which either is empty or which does not have data you want to save. The Formatting procedure will erase any data which may already be on the drive.
2. When you have located a suitable Flash Drive, insert it into the TO FLASH DRIVE Port of the SK PRO. The center of the Information Center Display will display the following for approximately 1 second:



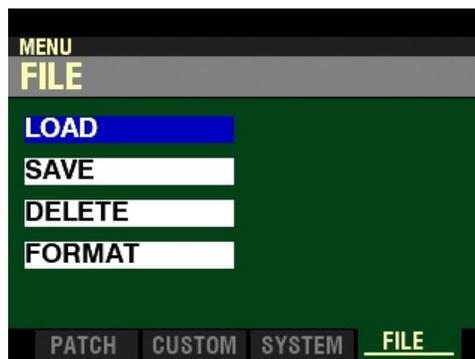
Confirming USB...

3. From any of the PLAY Mode screens, press the MENU/EXIT button once. The Information Center Display should now look like this:

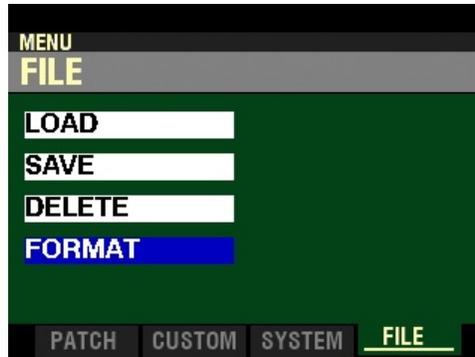


The “COMBINATION” box should be highlighted.

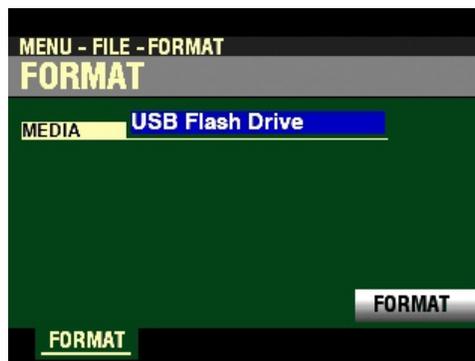
4. Press the PAGE “▶” button three times. The “LOAD” box should be highlighted.



5. Press the DIRECTION “▼” button three times. The Information Center Display should now look like this:

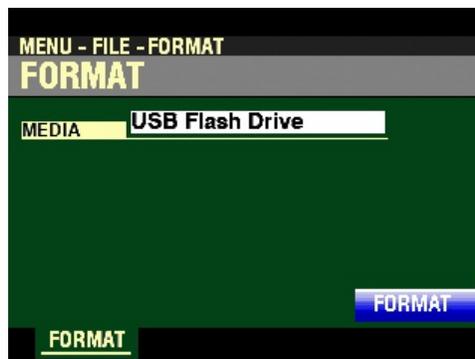


6. Press the ENTER button. The Information Center Display should now look like this:



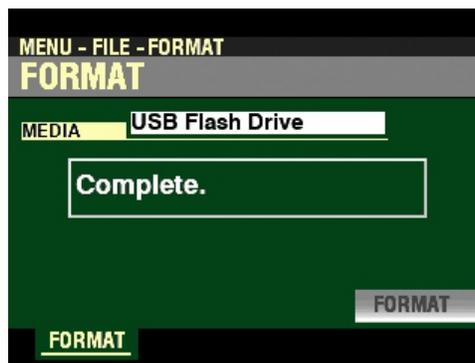
NOTE: If the box to the right of “MEDIA” displays Internal Memory, turn the VALUE knob so the box reads USB Flash Drive.

7. Press the DIRECTION “▼” button once. The Information Center Display should now look like this:



If there is any data on the USB Flash Drive, formatting the drive will erase it. Therefore if you DO NOT wish to format the USB Flash Drive, simply touch either the MENU/EXIT or PLAY Touch buttons.

If you wish to proceed with the formatting operation, from the screen shown at the bottom of the previous page press the ENTER Touch button once. The Information Center Display will display "Formatting...", then after approximately 30 seconds the following message will display:



The USB Flash Drive will be formatted and ready for use.

◆ Upgrading the SK PRO software using a USB Flash Drive

The different components of the software of your SK PRO can be upgraded to new versions. To do this, you must first download the software update from the Hammond website and install it to your USB Flash Drive.

◆ Installing a software upgrade to a USB Flash Drive

1. Go to the Hammond website (<http://hammondorganco.com>) and select Support
2. When the Support page finishes loading, select Downloads from either of the two links on the page.
3. When the Downloads page finishes loading, select System Downloads from either of the two links on the page.
4. On the left side of the System Downloads page you will see information about the latest system software upgrade and a link to a file named "skproRelease?.zip." The number of the release will be the latest software available.
5. Click on the link and select "Save Link As..." A dialog box will appear asking to what location you want to save the .ZIP file. It is recommended that you save the .ZIP file to your hard drive.

What Is A "ZIP" File?

When working with computer operations which involve several files, such as software installations or upgrades, it is frequently necessary to combine the individual files into one file, called an archive, and to compress the files so that the resulting archive file is smaller in size. Originally this was done so that all the necessary data would fit onto a floppy disk or installation CD; in recent years it is done so that if it is necessary to download data from the Internet, the download will take less time.

There are several methods of compressing files; however, the most common is the .ZIP format, support for which is built into both PC and Mac operating systems. On a PC, the name "compressed folders" is given to .ZIP files, while Mac OS X 10.3 includes .ZIP file support under the name "Archive Utility."

6. After the .ZIP file has finished downloading, go to the directory on your hard drive which contains the .ZIP file and extract the contents of the file. It is recommended that you allow the extraction utility to determine the folder which will contain the extracted files.
7. After the .ZIP file is finished extracting, open the folder which contains the extracted files. You should see a number of files with the extension, ".SYS."
8. Insert a USB Flash Drive that has been formatted for use with the SK PRO into an open USB port on your computer.
9. Open the "hammond" directory on the USB Drive, then the "skpro" sub-directory. You will see three (3) folders - "patch," "setup" and "system." The "system" folder is the one to which you will copy the system software files.
10. From the folder on your hard drive containing the extracted files select the files with a .SYS extension and copy them to the "system" folder on your USB Drive.

You have now prepared the USB Flash Drive with all the necessary information for upgrading your SK PRO with the latest system software. The following pages will explain in detail how to upgrade the SK PRO with the new software.

◆ Installing a software upgrade to the SK PRO from a USB Flash Drive

1. Make sure the power to the SK PRO is “OFF.”
2. Turn the power to the SK PRO “ON.” Wait until the operating system finishes loading (approximately 55 seconds).

The Information Center Display will show the following:

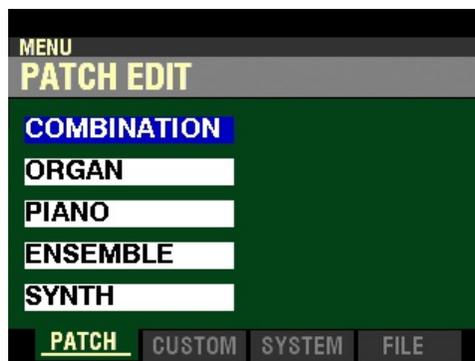


3. Insert the USB Flash Drive containing the system upgrade software into the TO FLASH DRIVE Port of the SK PRO. The center of the Information Center Display will display the following for approximately 1 second:

Confirming USB...

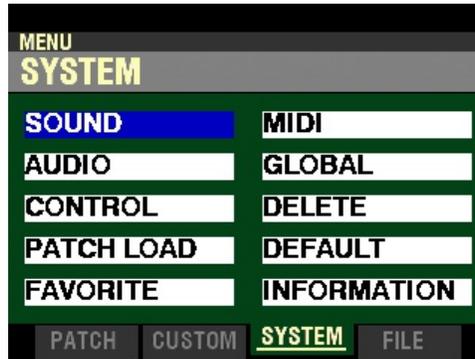
The amount of time necessary to upgrade the system software will depend upon the software modules to be updated. The range is from 2 to 15 minutes.

4. From any of the PLAY Mode screens, press the MENU/EXIT button once. The Information Center Display should now look like this:



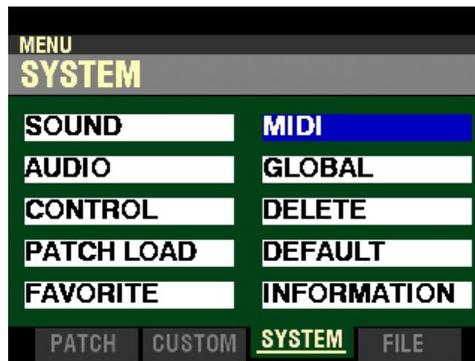
The “COMBINATION” box should be highlighted.

5. Press the PAGE “▶” button two times. The “SOUND” box should be highlighted.

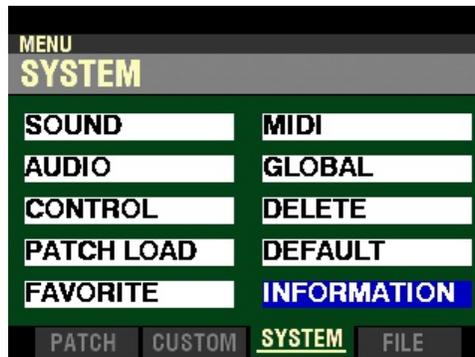


You are now in the SYSTEM Menu.

6. Press the DIRECTION “▶” button once. The Information Center Display should now look like this:



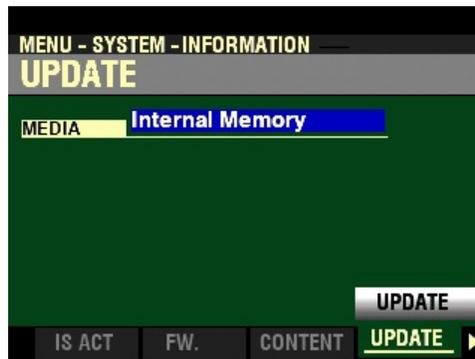
7. Press the DIRECTION “▼” button four times. The Information Center Display should now look like this:



8. Press the ENTER button. The Information Center Display should now look like this:

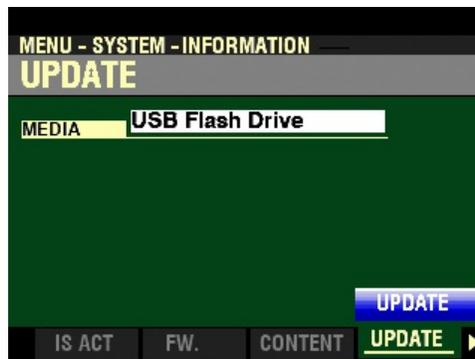


9. Press the PAGE "▶" button three times. The Information Center Display should now look like this:

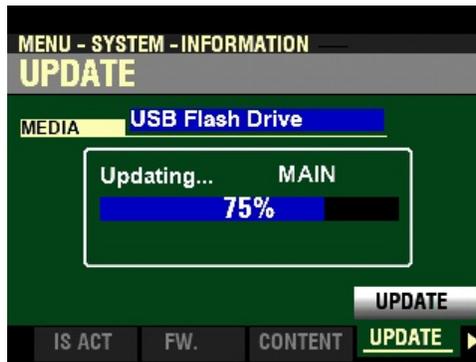


Use the VALUE knob to select either Internal Memory (the SK PRO's internal memory) or USB Flash Drive. Select USB Flash Drive to update the software from a USB Flash Drive.

10. When you have made your selection, press the DIRECTION "▼" button. The Information Center Display should now look like this:

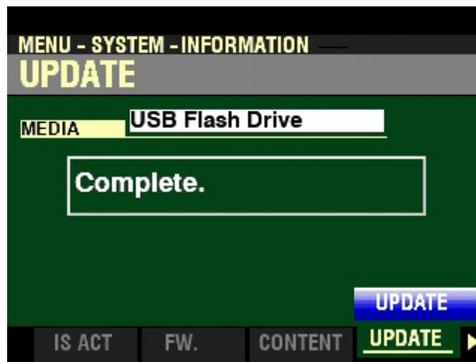


- 11. Press the ENTER button. You will see a screen similar to this:



During the Update procedure you will see status bars in the middle of the screen as the different software modules are loaded and installed.

When the system software has finished upgrading, the Information Center Display will show:



- 12. Turn the power to the SK PRO "OFF" then back "ON." Wait for the system to load. When the system has finished loading your SK PRO will be ready to play with the updated software.

◆ FILES

Your Hammond SK PRO instrument gives you the ability to save Files either to a USB Flash Drive or to the instrument's internal memory for later use. You can Save Setups, Patches or Custom Sets.

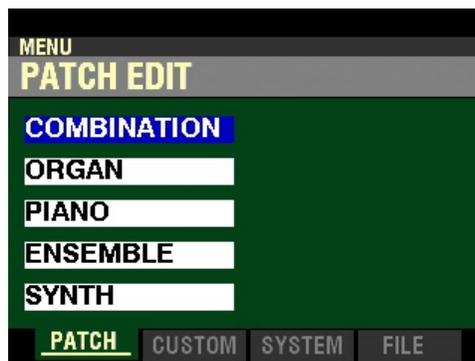
◆ What Is A “Setup?”

As explained in previous sections of this Guide, your SK PRO can be customized in a number of different ways - you can create and Record your own Combinations, Patches, Custom Sets, etc. After you have made your changes, you can either Save individual Patches and Custom Tone Wheels or Custom Pipes, or Save your edits and custom settings as a Setup. In this way you can customize the instrument in several different ways and Save each series of edits as a separate Setup. This makes it easy to configure the instrument the way you want without having to re-create all your custom settings manually each time you play.

◆ Saving a Setup, Patch or Custom Set

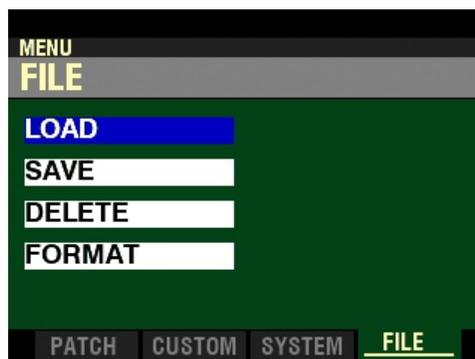
After you have customized your SK PRO, you can save your settings as a Setup. To do this:

1. From any of the PLAY Mode screens, press the MENU/EXIT button once. The Information Center Display should now look like this:



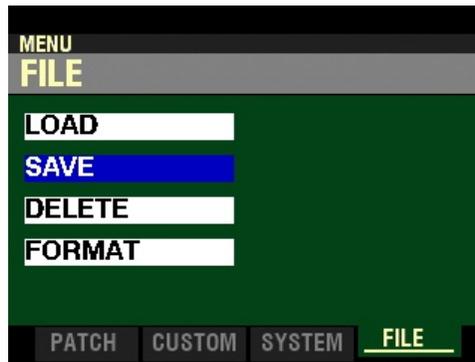
The “COMBINATION” box should be highlighted.

2. Press the PAGE “▶” button three times. The Information Center Display should now look like this:

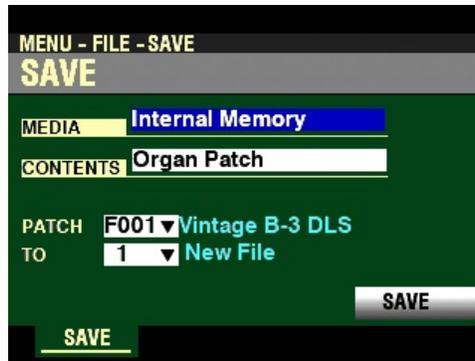


You are now in the FILE Menu.

3. Press the DIRECTION “▼” button once. The Information Center Display should now look like this:



4. Press the ENTER button. The Information Center Display should now look similar to this:



5. Use the VALUE knob to select the media to which to Save. You can select either Internal Memory (the instrument’s internal memory) or USB Flash Drive. If you wish to Save a file to a USB Flash Drive, make sure a USB Flash Drive is inserted in the TO FLASH DRIVE Port; otherwise you will not be able to select USB Flash Drive using the VALUE knob.

6. Use the DIRECTION “▼” button to move the cursor to CONTENT and use the VALUE knob to select the type of content to Save.



The data chart below shows the options you may select.

SAVE Content Options	
Content	Description
Setup	Setup file.
Organ Patch	User Patch in the ORGAN Voice Section.
Piano/Ensemble Patch	User Patch in the PIANO / ENSEMBLE Voice Sections
Synth Patch	User Patch in the MONO SYNTH Voice Section
Tone Wheel	Custom Tone Wheel
Pipe	Custom Pipe

Turn the VALUE knob to make your selection.

7. Use the DIRECTION “▼” button to move the cursor to the next box down. It may say PATCH or CUSTOM depending on the type of file you are Saving.



NOTE: The Tone Wheel option will have an additional box, DB TYPE, which will allow you to select which Drawbar Organ Type to Save the Custom Tone Wheel to. For more information consult the CUSTOM SETS chapter of this Guide.

NOTE: The Setup option will have only the TO box. If you are Saving a Setup, skip Step 7.

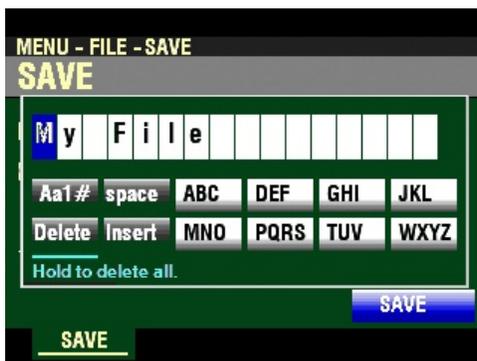
8. Use the DIRECTION “▼” button to move the cursor to TO and use the VALUE knob to select the location to which to Save the selected file. Select a file location marked New File if you wish to Save a new file.



9. Use the DIRECTION “▼” button to move the cursor to SAVE.



10. Press the ENTER button. The Information Center Display will look similar to this:



This is the screen you will use to Name your file. You can use the FAVORITE buttons and the BANK and MANUAL buttons. The data chart below explains the function of each button.

NAMING PARAMETERS		
Parameter	Button	Description
Aa1	BANK	Changes the character type (Capital and lower-case letters, numbers, special characters).
Delete	MANUAL	Deletes the character at the cursor.
space	FAVORITE 1	Replaces the character at the cursor with a space.
Insert	FAVORITE 6	Inserts a space at the cursor.
ABC, etc.	FAVORITES 2 ~ 5, 7 ~ 10.	Use these to cycle through and select the characters for the highlighted location. Each successive touch will cause the next character to display - for example, touching the Number 2 button will display A , touching it again will display B and touching it a third time will display C .

You can also turn the VALUE knob to select characters. If you wish to do this, use the DIRECTION “◀” and “▶” buttons to move back and forth through the characters.

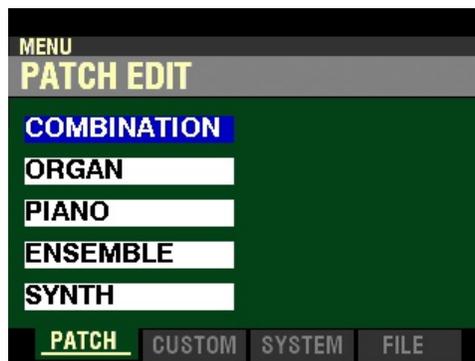
11. When you have finished the Naming procedure, press the ENTER button to complete the Saving procedure. You will see the following messages flash in the display for approximately 1 second:



When the above message disappears, your file has been saved.

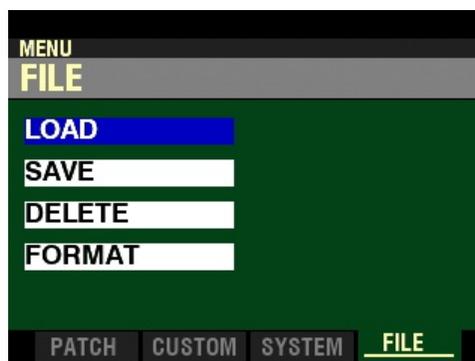
◆ Loading a Setup, Patch or Custom Set

1. From any of the PLAY Mode screens, press the MENU/EXIT button once. The Information Center Display should look like this:



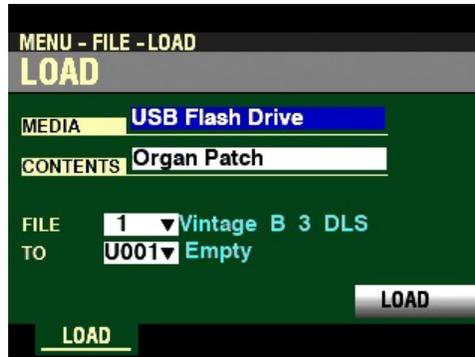
The "COMBINATION" box should be highlighted.

2. Press the PAGE "▶" button three times. The Information Center Display should now look like this:

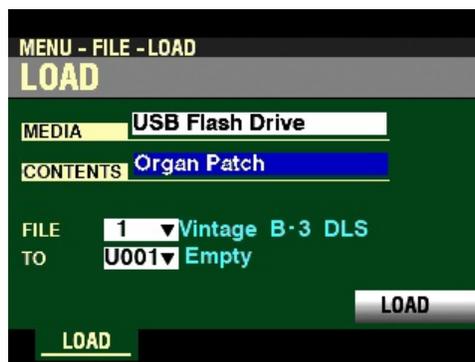


You are now in the FILE Menu.

3. Press the ENTER button. The Information Center Display should now look similar to this:



4. Use the VALUE knob to select the media from which to Load. You can select either Internal Memory (the instrument's internal memory) or USB Flash Drive. If you wish to Load a file from a USB Flash Drive, make sure a USB Flash Drive is inserted in the TO FLASH DRIVE Port; otherwise you will not be able to select USB Flash Drive using the VALUE knob.
5. Use the DIRECTION “▼” button to move the cursor to CONTENT and use the VALUE knob to select the type of content to Load.



The data chart below shows the options you may select.

LOAD Content Options	
Content	Description
Setup	Setup file.
Organ Patch	User Patch in the ORGAN Voice Section.
Piano/Ensemble Patch	User Patch in the PIANO / ENSEMBLE Voice Sections
Synth Patch	User Patch in the MONO SYNTH Voice Section
Tone Wheel	Custom Tone Wheel
Pipe	Custom Pipe

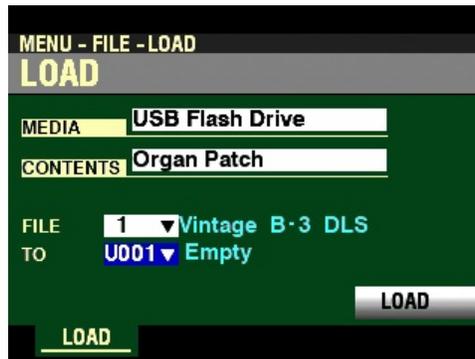
Turn the VALUE knob to make your selection.

6. Use the DIRECTION “▼” button to move the cursor to the next box down. It may say PATCH or CUSTOM depending on the type of file you are Loading.



NOTE: The Tone Wheel option will have an additional box, DB TYPE, which will allow you to select which Drawbar Organ Type to Load the Custom Tone Wheel from. For more information consult the CUSTOM SETS chapter of this Guide.

7. Use the DIRECTION “▼” button to move the cursor to TO and use the VALUE knob to select the location from which to Load the selected file.



NOTE: The Setup option will not have the TO box. If you are Loading a Setup, skip Step 7.

NOTE: If the TO location displays Empty, there is no File to Load.

- When you have finished the Naming procedure, press the ENTER button to complete the Loading procedure. You will see the following messages flash in the display for approximately 1 second:



Loading...

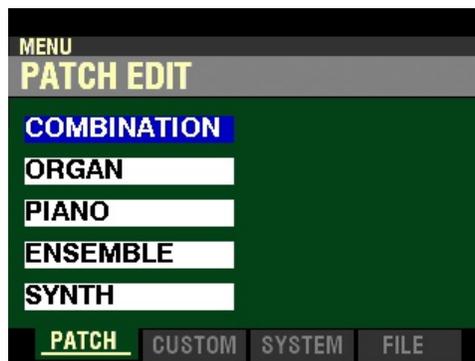


Completed.

When the above message disappears, your file has been saved.

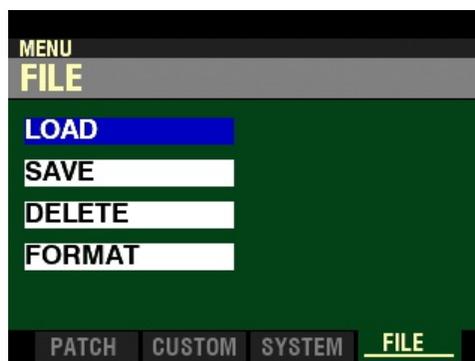
◆ Deleting a Setup, Patch or Custom Set

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



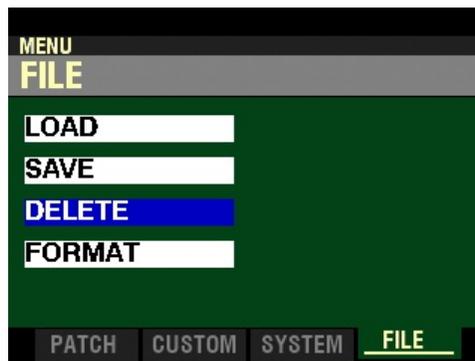
The “COMBINATION” box should be highlighted.

- Press the PAGE “▶” button three times. The Information Center Display should now look like this:



You are now in the FILE Menu.

3. Press the DIRECTION “▼” button two times. The Information Center Display should now look like this:

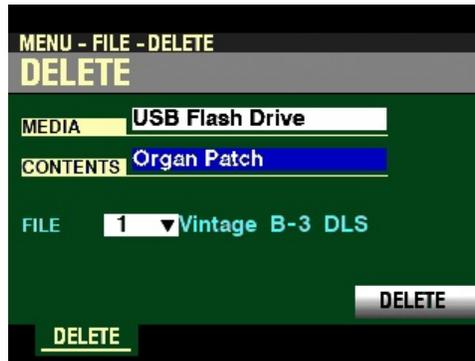


4. Press the ENTER button. The Information Center Display should now look similar to this:



5. Use the VALUE knob to select the media to which to Delete. You can select either Internal Memory (the instrument's internal memory) or USB Flash Drive. If you wish to Delete a file from a USB Flash Drive, make sure a USB Flash Drive is inserted in the TO FLASH DRIVE Port; otherwise you will not be able to select USB Flash Drive using the VALUE knob.

6. Use the DIRECTION “▼” button to move the cursor to CONTENTS and use the VALUE knob to select the type of content to Delete.



The data chart below shows the options you may select.

DELETE Content Options	
Content	Description
Setup	Setup file.
Organ Patch	User Patch in the ORGAN Voice Section.
Piano/Ensemble Patch	User Patch in the PIANO / ENSEMBLE Voice Sections
Synth Patch	User Patch in the MONO SYNTH Voice Section
Tone Wheel	Custom Tone Wheel
Pipe	Custom Pipe

Turn the VALUE knob to make your selection.

7. Use the DIRECTION “▼” button to move the cursor to the next box down, and select the file you want to Delete.



NOTE: If a file location displays No File, there is no File to Delete.

8. Use the DIRECTION “▼” button to move the cursor to DELETE and press the ENTER button.



9. Press the ENTER button to complete the Deleting procedure. You will see the following messages flash in the display for approximately 1 second:

Deleting...

Completed.

When the above message disappears, your file has been Deleted.