M-AUDIO

HyperControl
for Reason

User Guide

What is HyperControl?

HyperControl is a powerful new technology that automatically maps your Axiom Pro controls (i.e., knobs, buttons, sliders[1], etc.) to the on-screen controls of Reason. This helps you make music more quickly since you no longer have to perform the tedious and time-consuming task of assigning MIDI controls.

Furthermore, since HyperControl is a two-way communication protocol, your Axiom Pro hardware and Reason software always remain synchronized to each other. For example, if a knob is turned on Axiom Pro, its corresponding knob in Reason will update. Alternatively, if an on-screen knob is turned within Reason (using the mouse), the corresponding knob position of Axiom Pro (as shown on the LCD display) updates as well. If a new Reason Device is selected (or a different patch within the same Device), the parameter names and various button, knob, and slider[1] positions automatically update on the Axiom Pro display. This makes Axiom Pro feel like a "dedicated" hardware controller since the knobs and LCD screen are tightly integrated with Reason and always reflect what is currently happening within the application.

Finally, the Axiom Pro controller can generate more than just MIDI commands—ASCII keystrokes can also be sent, emulating Reason keyboard shortcuts. This allows the controller to have "deep" integration into Reason, and allows things like copy, undo and many other features to be controlled right from Axiom Pro. This minimizes the amount of time you must spend using the mouse to control your software.

In short, these features let you use Reason more intuitively and give you more "hands on" control of your software to inspire your creativity.

[1] *Only available on Axiom Pro 49/61*

HyperControl Requirements

Reason 4.0 Software:

Please note that HyperControl requires Reason version 4.0 or later. Earlier versions of Reason do not support HyperControl technology.

Axiom Pro Hardware:

HyperControl requires the presence of an Axiom Pro controller on your computer and this document assumes your Axiom Pro keyboard has already been installed and connected to your system. To learn more about this installation procedure, please see the Axiom Pro Quick Start Guide.

HyperControl Installation

✓ ***NOTE:*** *If Reason is running, close the application before beginning the HyperControl installation procedure. The instructions below will indicate when Reason should be launched.*

1. HyperControl technology requires Axiom Pro "personality" files to be added into some of the Reason sub-folders. To install this file, run the M-Audio Reason HyperControl Installer and follow the on-screen instructions.

2. Once the installation is complete, launch Reason.

3. *Windows XP/Vista Users:* Select "Preferences…" from the 'Edit' menu

   Mac OS X Users: Select "Preferences…" from the 'Reason' menu.

4. Click the "Page" drop-down menu and select "Keyboard and Control Surfaces" .

5. Click "Auto-Detect Surfaces". Reason should find Axiom Pro automatically.

   If Axiom Pro is automatically detected, the configuration process is complete and Reason can now be controlled with Axiom Pro using HyperControl technology. Close the Preferences window and continue to the next section of this User Guide.

   If Reason does not automatically detect Axiom Pro, continue to steps 6-10.

6. Click "Add" to manually add Axiom Pro as a Reason control surface.

7. Select "M-Audio" from the "Manufacturer" drop-down menu.

8. From the "Model" drop-down menu, select the Axiom Pro 25, 49, or 61 model that corresponds to your controller.

9. Select "Axiom Pro HyperControl 2 " from the "Controls In Port" and "Controls Out Port" drop-down menus.

10. Select "Axiom Pro USB A 2 " from the "Keyboard Port" drop-down menu.

Once the steps above are completed, click "OK." You can now control Reason with your Axiom Pro using HyperControl technology.

[2] Windows XP, Vista and Mac OS X 10.4 (Tiger) users:

When using Axiom Pro class-compliant (i.e. without installing the M-Audio driver) in Windows XP/Vista or in Mac OS X 10.4 (Tiger), the Axiom Pro MIDI ports will not be displayed with their proper port names.

Windows XP or Vista users:

Please follow the driver installation instructions found in the printed Quick Start Guide.

Mac OS X 10.4 (Tiger) users:

No Mac drivers are available, since the class-compliant MIDI driver built into Mac OS X supports all features of Axiom Pro. Please see the table below for more information on port naming.

Axiom Pro Class-Compliant Port Names per Operating System

Macintosh		
Axiom Pro MIDI Input Ports	**Mac OS X 10.4 MIDI Input Ports**	**Mac OS X 10.5 MIDI Input Ports**
Axiom Pro 61[3] USB A In	Axiom Pro 61 Port 1	Axiom Pro 61 USB A In
Axiom Pro 61[3] HyperControl In	Axiom Pro 61 Port 2	Axiom Pro 61 HyperControl In
Axiom Pro 61[3] MIDI In	Axiom Pro 61 Port 3	Axiom Pro 61 MIDI In
Axiom Pro 61[3] USB B In	Axiom Pro 61 Port 4	Axiom Pro 61 USB B In
Axiom Pro MIDI Output Ports	**Mac OS X 10.4 MIDI Output Ports**	**Mac OS X 10.5 MIDI Output Ports**
Axiom Pro 61[3] MIDI Out	Axiom Pro 61 Port 1	Axiom Pro 61 MIDI Out
Axiom Pro 61[3] HyperControl Out	Axiom Pro 61 Port 2	Axiom Pro 61 HyperControl Out

Windows		
Axiom Pro MIDI Input Ports	**Windows XP MIDI Input Ports**	**Windows Vista MIDI Input Ports**
Axiom Pro 61[3] USB A In	USB Audio Device	Axiom Pro 61
Axiom Pro 61[3] HyperControl In	USB Audio Device [2]	MIDIIN2 Axiom Pro 61
Axiom Pro 61[3] MIDI In	USB Audio Device [3]	MIDIIN3 Axiom Pro 61
Axiom Pro 61[3] USB B In	USB Audio Device [4]	MIDIIN4 Axiom Pro 61
Axiom Pro MIDI Output Ports	**Windows XP MIDI Output Ports**	**Windows Vista MIDI Output Ports**
Axiom Pro 61[3] MIDI Out	USB Audio Device	Axiom Pro 61
Axiom Pro 61[3] HyperControl Out	USB Audio Device [2]	MIDIOUT2 Axiom Pro 61

[3] These MIDI port names will display the corresponding number of keys, based on the Axiom Pro model you use: 25, 49 or 61.

Controlling Reason through Axiom Pro and HyperControl

Reason includes a variety of different "Devices" that can be created and added to your "virtual rack" of equipment. New Devices are selected from the "Create" menu and fall under three basic categories:

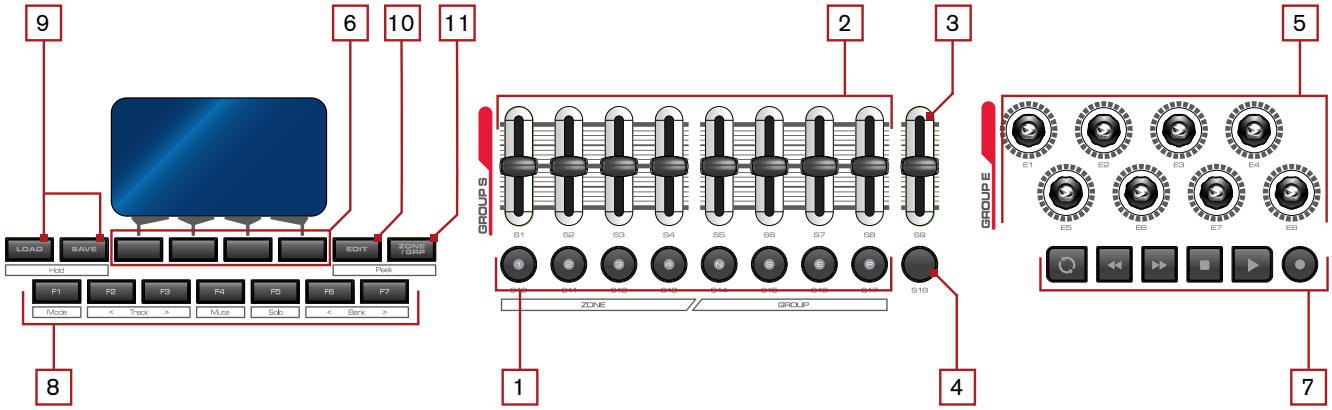
- **Mixers** – Mixer Devices include the Mixer 14:2 and the Line Mixer 6:2.
- **Instruments** – Instrument Devices include Subtractor, Thor, Malström, NN19, NN-XT, Dr. Rex, Redrum, Matrix and RPG-8.
- **Effects** – Effects Devices includes all of the Devices between "MClass" and "Spider" in the Create drop-down menu.

When using HyperControl, the functionality of the Axiom Pro sliders [4], encoders knobs and slider buttons [4] will vary depending on the Device track that is selected within the Reason Sequencer. For example, if you have a new song with one NN-XT Device and one Thor Device, the Reason sequencer will have a track for each of those Devices. Selecting the "NN-XT" sequencer track will result in HyperControl (and Axiom Pro) "focusing" on the NN-XT Device, whereas selecting the Thor track will shift the HyperControl focus to the Thor Device. The Device that is in focus will have the Axiom Pro controls (encoder knobs, sliders [4], etc.) and LCD screen update to match the parameters of that device (this is covered in greater detail later in this User Guide).

> ! ***IMPORTANT:*** *To control a Reason Device using HyperControl, the Device must be assigned to a sequencer track; If a sequencer track is not assigned to a Device, HyperControl will not be able to control that Device.*
>
> *When you create instrument Devices, a sequencer track is automatically created and assigned to that Device. However, when you create Mixer and Effects Devices, a sequencer track is not automatically created for those Devices. To create a track for these types of Devices, right-click on the Device (Ctrl-Click for Mac OS X users) and select "Create Track" from the bottom of the context menu which appears.*

[4] *Only available on Axiom Pro 49/61.*

Axiom Pro Hardware Controls



1. **Slider Buttons**[5] **–** The functionality of the slider buttons varies depending on the selected Device (i.e., the device that is selected in the Sequencer):

   - **Mixer Devices:**
     By default, these buttons mute/un-mute mixer tracks. However, pressing the Flip button [4] will toggle the functionality of the slider buttons and allows you to solo/un-solo mixer tracks.

   - **Instrument Devices:**
     The functionality of the slider buttons varies depending on what instrument Device is currently selected. The "Instrument Devices" section of this User Guide covers individual devices in greater detail.

   - **Effects Devices:**
     The slider buttons are unused on effects Devices.

2. **Sliders**[5] **–** The functionality of the sliders varies depending on the selected Device:

   - **Mixer Devices:**
     The sliders control channel volume. Note that the 14:2 Mixer has 14 channels whereas Axiom Pro only has eight sliders (not including the Master slider which is described below). When using the 14:2 mixer, use F-Keys F6 and F7 (F1+F2 and F1+F3 for Axiom Pro 25 users) to access mixer channels 1-8 and 9-14, respectively.

   - **Instrument Devices:**
     When controlling instrument Devices, the sliders cover some of the most commonly used controls for each Reason instrument. The "Instrument Devices" section of this User Guide contains for more information about how the sliders work with each specific instrument Device.

     ✓ ***NOTE:*** *As soon as one of the Soft-Keys [6] is pressed to select a Control Page, the sliders will no longer be mapped to their default on-screen controls. To map the sliders, press the Flip button [4], in which case the sliders will take on the mappings currently assigned to the encoders.*

   - **Effects Devices:**
     For most effects Devices, the sliders are unmapped. Press the Flip button [4], if you prefer to use the sliders instead of the encoder knobs to edit Effects device parameters

     About Flipped Faders mode: HyperControl features a "Flipped Faders" mode that allows you to use the sliders to control the parameters of a device instead of the encoder knobs. Please see the Flip Button description below to learn how to use this feature.

[5] *Only available on Axiom Pro 49/61.*

3. **Master Slider**[6] **–** In most cases, the Master slider will control the Master Volume of the selected Device.

4. **Flip Button**[6] **–** The functionality of the Flip button varies depending on the selected Device:

   - **Mixer Devices:**
     The Flip button toggles the mode of the slider buttons between Track Mute and Track Solo.

   - **Instrument and Effects Devices:**
     For instrument and effects Devices, the Flip button will switch the parameter mappings between the encoders and the sliders. When the mapping is switched to the sliders, the Flip button is illuminated.

     ✓ ***NOTE:*** *The Flip Faders option is only available when you have accessed a Device sub-menu using one of the Soft-Keys; the "default" assignments that are loaded after selecting a Device sequencer track cannot be flipped. For more information about slider and encoder assignments, see the "Instrument Devices" and "Effects Devices" sections of this User Guide.*

5. **Encoder Knobs –** The functionality of the encoder knobs varies depending on the selected Device:

   - **Mixer Devices:**
     Encoder assignments are determined by the Soft-Keys [6]. The default assignment is "Pan," however, pressing Soft-Keys 1-3 will switch the encoders to control EQ, and aux send parameters, respectively.

     Note that the EQ (Soft-Key 2) and Aux (Soft-Key 3) parameters have multiple pages of parameters that can be accessed by repeatedly pressing Soft-Keys 2-3. For example, to control the Aux 4 knob of track 1 in the 14:2 Mixer, press Soft-Key 4 (Aux) four times until '1-8Aux 4' appears on the top-right of the screen, then turn encoder E1.

   - **Instrument and Effects Devices:**
     When selecting an instrument or effects Device, the encoder knobs map to a selection of some of the most useful parameters throughout the Device. Pressing Soft-Keys 1-4 allows you to shift the focus to more specific sections or groups of parameters within the Device (i.e., only the oscillators, filters, etc.) This provides in-depth control of a feature sub-set of the Device.

     The "Instrument Devices" and "Effects Devices" sections of this User Guide provide detailed encoder assignment tables for instrument and effects Devices, respectively.

     ✓ ***TIP:*** *If an instrument or effects Device contains more than one page of parameters, repeatedly pressing a Soft-Key allows you to step through all of its additional pages. For example, when using Subtractor, pressing Soft-Key 1 (Oscs) lets you toggle between the two oscillators contained within Subtractor.*

6. **Soft-Keys –** These four buttons access the HyperControl menus (known as "Pages") displayed along the bottom of the LCD screen. Each page contains various parameters corresponding to the on-screen parameters of Reason Devices.

   If a selected device has more than one page of parameters, repeatedly pressing its corresponding Soft-Key will step through the various other pages of parameters relating to that Soft-Key. For example, the 14:2 Mixer Device has four aux send knobs; Pressing Soft-Key 3 (Aux) allows you to step through the pages relating to those four knobs.

[6] *Only available on Axiom Pro 49/61.*

7. **Transport Controls –** These buttons map to the Reason Transport.

Axiom Pro Control	Functionality within Reason
	**Loop**. This button engages and disengages looping between the Left Locator and Right Locator positions as specified in the Reason transport. The button is illuminated when looping is engaged.
	**Rewind**. Tapping this button will move the song position backwards one bar. Holding this button will rewind the Reason transport until the button is released.
	**Fast Forward**. Tapping this button will move the song position forward one bar. Holding this button will fast forward the Reason transport until the button is released.
	**Stop**. This buttons stops recording or playback.
	**Play**. This button starts playback.
	**Record**. This button begins recording in Reason.

8. **F-Keys –** These buttons let you navigate through Reason and let you accomplish tasks without using your computer's mouse or keyboard.

> ✓ Axiom Pro 25 Users:
> Due to space limitations, Axiom Pro 25 does not feature dedicated F-Keys. Instead, the Soft-Keys on the bottom row can be converted to F-Keys by pressing the "F-Keys" Function button on the top row. Note that Axiom Pro 25 only has hardware buttons for F-Keys 1-4 (the functions for F-Keys F5-F7 can be accessed by simultaneously holding F-Key F1 and pressing F2-F4).

- **F1 (Mode)** – On Axiom Pro 25, holding this button while pressing F2-F4 lets you perform the functionality of the F5-F7 keys, respectively.

  This button is not used on Axiom Pro 49 and 61 when HyperControl is being used to control Reason.

- **F2 (< Track)** – This button selects and record-enables the previous track within Reason. For example, if track 8 is currently selected, pressing this button will select track 7 and enable recording for that track. The currently selected sequencer track is highlighted in dark gray.

- **F3 (Track >)** – This button selects and record-enables the next track within Reason. For example, if track 1 is currently selected, pressing this button will select track 2 and enable recording for that track. The currently selected sequencer track is highlighted in dark gray.

- **F4 (Mute)** – This button mutes the sequencer track that is currently selected.

- **F5 (Solo)** – This button solos the sequencer track that is currently selected.

> ✓ Axiom Pro 25 Users:
> Holding Mode (F1) and pressing F4 will replicate the function of F5.

- **F6 (< Bank)** – When controlling the 14:2 Mixer or Redrum, this button lets you select the leftmost bank of tracks.

  When controlling other Reason Devices that can store patches, the F6 button lets you select the previous patch.

  ✓ Axiom Pro 25 Users:
  Holding Mode (F1) and pressing F2 will replicate the function of F6.

- **F7 (Bank >)** – When controlling the 14:2 Mixer or Redrum, this button lets you select the rightmost bank of tracks.

  When controlling other Reason Devices that can store patches, the F7 button lets you select the next patch.

  ✓ Axiom Pro 25 Users:
  Holding Mode (F1) and pressing F3 will replicate the function of F7.

9. **Load Button –** This button brings up a prompt allowing you to load stored Axiom Pro patches. Loading of patches is covered in the "Function Buttons and Soft Keys" section of the Axiom Pro User Guide.

   Save Button – This button brings up a prompt allowing you to save the current settings of your Axiom Pro. Saving of patches is covered in the "Function Buttons and Soft Keys" section of the Axiom Pro User Guide.

   Hold (Load + Save Buttons) – By default, the LCD screen displays the position and status of the last control that was moved. For example, if the screen is displaying the status of the drum pad group and you turn an encoder knob, the LCD will immediately switch to the encoder group, highlight the encoder that was turned, and display that encoder's associated parameter and value on the lower-left side of the screen.

   Whenever you change pages using the Soft-Keys, the LCD screen displays the parameter names assigned to each encoder knob. In certain cases, you may wish to "hold" this information on the LCD screen, preventing the screen from changing to a graphical representation when a control is moved. To do this, simultaneously press and hold the Save and Load buttons.

   When the display is locked, if you move a control outside the "locked" group, you will still see the control's parameter name and value in the display, but the text on the LCD Screen will remain in place.

   Pressing the Save and Load buttons again will disable the Hold feature.

✓ **Why do I need patches?**

Doesn't HyperControl assign controls automatically?

HyperControl technology automatically handles the assignment of most Axiom Pro controls and in many cases, you will not need to load or save any Axiom Pro patches.

However, HyperControl technology does not assign the performance controls (drum pads, keyboard zones, sustain/expression pedals, etc.) and the numerical keypad[7].

The numerical keypad is not automatically assigned, so that you can still customize some of the Axiom Pro controls to your preference even if HyperControl is in use. For example, you can assign Reason keyboard shortcuts to the buttons of the Axiom Pro keypad. Before you begin customizing the keypad, note that Axiom Pro ships from the factory with a number of useful patches that may already assign the numerical keypad to functions you wish to use. Please see Appendix A at the end of the Axiom Pro User Guide to learn how each factory patch is configured.

The performance controls are not automatically assigned by HyperControl so that you can set note, zone, and other assignments to your preference. For example, your virtual instrument may require you to assign the pads to send specific MIDI note or velocity values. Alternatively, you may wish to configure keyboard zones in a specific way to help you accomplish a specific task. This can be done through Edit mode on Axiom Pro. Please see the Axiom Pro User Guide to learn how to do this.

[7] *Only available on Axiom Pro 49/61.*

10. Edit Button – This button lets you enter and exit Edit Mode.

When using HyperControl, many of the Axiom Pro controls (i.e., buttons, knobs, sliders[8], transport controls, etc.) are automatically assigned to the on-screen controls of your software. These automatic assignments cannot be edited. However, you can customize the numerical keypad[8] 12 and performance controls (the drum pads, keyboard zones, sustain/expression pedals, etc.) to your personal preference by using Edit Mode.

This mode is covered in greater detail in the "Edit Mode" section of the Axiom Pro User Guide.

> ✓ ***NOTE:*** *It is possible to set HyperControl to only map the Axiom Pro transport controls to your software while allowing all other control groups (encoder knobs, sliders[8], buttons, etc.) to function like a traditional MIDI controller. This is useful for users who have created their own fully-customized Axiom Pro patches for their audio applications but would still like Axiom Pro transport controls to automatically map to the software that they are using.*

To do this, enter Edit Mode and change the "HyperControl" parameter (of the main menu) from "Normal" to "Transport." For more information, see the "Edit Mode" section of the Axiom Pro User Guide.

Note that HyperControl "Transport" and "Normal" modes can be toggled on the fly while HyperControl is active. This lets you switch between "normal" HyperControl assignments and an additional set of your own custom controller assignments that you can specifically tailor to your needs. This gives you even more hands-on control over Reason features you frequently use.

11. Zone/Grp Button – This button switches the functionality of the buttons beneath the sliders (on Axiom Pro 49/61) or Transport Control (on Axiom Pro 25) and allows you to select the Performance Groups and Zones. When the button is not illuminated (i.e., not pressed), the associated buttons send out HyperControl commands. When the button is pressed, it becomes illuminated, and the associated buttons can then be used to activate/deactivate Zones and Groups. The "Edit Mode > Zones" section of the Axiom Pro User Guide covers this subject in greater detail.

Peek (Edit + Zone/Grp Buttons) – You can return to view knob assignments at any time by simultaneously pressing the Edit and Zone/Grp buttons. For example, if knob positions are being displayed on screen but you would like to return to the top level screen that shows the encoder assignments press the Edit and Zone/Grp buttons.

The Peek function also lets you check the current value of a specific knob without changing its corresponding Reason parameter. To do this, press and hold the Edit and Zone/Grp buttons while moving the desired control. This will list the moved control's current value without causing any changes to your Reason Device.

[8] *Only available on Axiom Pro 49/61.*

12. **Numerical Keypad [9] –** The numerical keypad buttons can be programmed to send MIDI commands as well as ASCII keystrokes (just like a computer keyboard). These ASCII keystrokes can correspond to your audio application's "keyboard shortcuts" allowing you to access various features of your software straight from Axiom Pro (i.e., without having to touch your computer keyboard).

    Axiom Pro ships with a variety of pre-programmed patches that map these buttons to popular audio applications (a detailed list of these patches can be found in Appendix A of the Axiom Pro User Guide). For example, when using HyperControl with Reason, the numerical keypad can be used to perform the following by loading patch 17 (Mac users) or patch 18 (PC users):

Axiom Pro Keypad	**Shortcut within Reason** *(Patch 17 for Mac OS X; Patch 18 for Windows)*
1	Save song
2	Undo
3	Toggle click on/off
4	Toggle quantize on/off
5	Zoom out horizontal
6	Zoom in horizontal
7	Expand Sequencer
8	Go to L locator point
9	Go to R locator point
– (Minus)	Decrease tempo
0	Go to song start
+ (Plus)	Increase tempo

    See the "Edit Mode > Control" section of the Axiom Pro User Guide to learn how to make customized patches for these buttons.

    ✓ ***TIP:*** *When working in Edit Mode, these buttons allow Axiom Pro 49/61 users to enter numerical values quickly. Axiom Pro 25 users can enter values by using the black piano keys (the keys range from 0-9 as you move from left to right on the keyboard).*

[9] *Only available on Axiom Pro 49/61.*

Using Reason with HyperControl

General Overview

HyperControl is designed to give you intuitive, "hands-on" control of the Sequencer and Devices within Reason.

The Transport Controls [7] give you instant access to the Reason transport and let you start, stop, record, loop, fast-forward, and rewind straight from Axiom Pro:

The F1-F7 F-Keys (F1-F4 on Axiom Pro 25) [8] let you select, solo, and mute tracks within your Reason song without having to use the mouse. When a track is selected using the F2-F3 (Track) keys, the track is highlighted in dark gray within the Reason sequencer and it is automatically record-enabled to help you begin recording quickly. These keys are covered in further detail in the "Axiom Pro Hardware Controls" section of this guide.

Many of the other Axiom Pro controls (buttons, encoder knobs, sliders[10], etc.) automatically adjust their functionality depending on the Device that is currently selected within the Reason Sequencer. If you select a different track (i.e., a different Device), the LCD screen will update to show a list of new parameters that are associated with the track you have just selected. These parameters are now controlled by the encoder knobs [5].

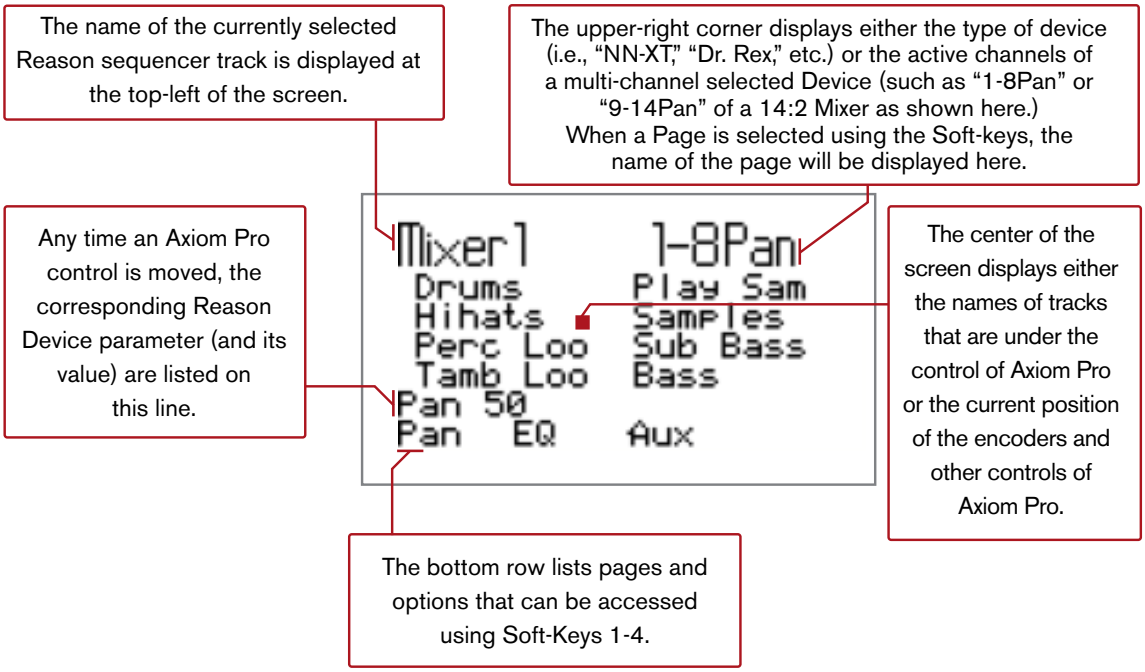
If any of the Axiom Pro controls (i.e., pads, sliders[10], knobs, or numerical keypad[10]) are moved, the LCD screen will update to show the position of the moved control and its group.

If you would like to return to the default screen that shows the assignment of each encoder knob, simultaneously press the "Edit" and "Zone/Grp" buttons on Axiom Pro to activate "Peek" mode. Alternatively, if you would like to lock the center section of a page and prevent it from changing, simultaneously press and hold the Load and Save buttons to activate "Lock" mode.

[10] *Only available on Axiom Pro 49/61.*

HyperControl Display and Soft-Keys

The Axiom Pro display indicates what Device is currently selected within the Reason sequencer and how the encoder knobs map to that Device's on-screen parameters. In the illustration shown below, a 14:2 Mixer Device is selected:



As indicated in the top-right corner of the example screen shown above, this page allows you to set Pan positions of mixer tracks 1-8 by using the encoder knobs. The two columns in the center of the screen display the track names of your Reason session ("Drums" through "Bass" in the example shown above). These tracks are currently under the control of the Axiom Pro encoders: the left column (Drums – Tamb Loo) always correspond to encoder knobs E1-E4 whereas the right column (Play Sam - Bass) correspond to encoder knobs E5-E8. This same logic applies to all Reason Devices—the left column always applies to encoder knobs E1-E4 and the right column always applies to knobs E5-E8.

The Soft-Keys of Axiom Pro allow you to access up to four different HyperControl pages that are listed along the bottom of the display ("Pan" "EQ" "Aux" in the example shown above; Soft-Key 4 is not used by this Device). When a new page is loaded, the encoder knobs automatically map to the parameters listed on the page. For example, in the picture shown above, pressing Soft-Key 3 (Aux) accesses the Aux 1 page of HyperControl and lets you use the encoder knobs to turn the control Aux 1 knob within the Reason mixer that you've selected.

Some Devices have multiple pages of similar parameters. To access these parameters, press the associated Soft-Key repeatedly to step through all of the available pages. For example, the 14:2 Mixer Device has 4 auxiliary send controls as well as separate controls for returns. Pressing Soft-Key 3 will step through the various Aux parameter groups (Aux 1, 2, 3, 4, Aux Returns) before returning to the Aux 1 parameter again.

✓ ***What about the Sliders on Axiom Pro 49/61?***

When using Mixer Devices (as shown above), the sliders will remain assigned to Track levels regardless of the page selected by the Soft-keys. Since Axiom Pro 25 does not feature any sliders, track levels can be changed by selecting Soft-Key 1 (Level) and adjusting levels using the encoder knobs.

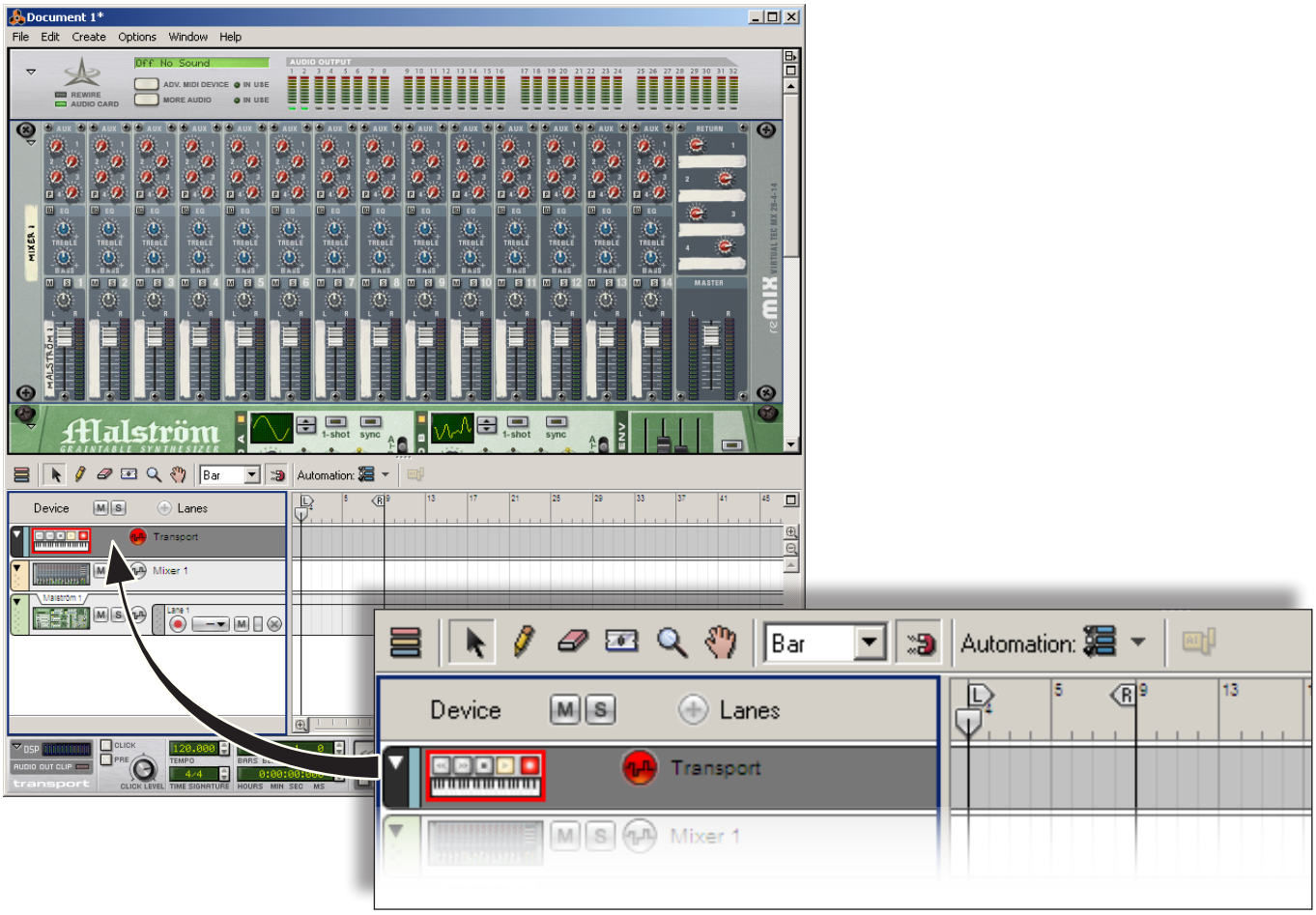
In the case of instrument Devices, the sliders map to various useful parameters within the Device by default. However, once a page is selected by pressing one of the Soft-keys, the encoder knobs map to the specific parameters associated with your Soft-Key (e.g., example, pressing a "Filt" Soft-Key will assign the encoders to filter-related parameters) and the sliders will no longer be assigned. This allows you to use Flipped Faders mode to control encoder knob assignments.

Note that if the encoder knobs have no assignment for the currently active Device within Reason, turning a knob will have no effect on your Axiom Pro display or Reason Device.

✓ Axiom Pro 25 users:

The amount of Soft-Key pages may vary slightly from that of Axiom Pro 49 or 61 since the 25 note version of the keyboard does not have sliders. These differences are described throughout this User Guide wherever necessary.

The Transport 'Track'



Reason features a "Transport" track at the top of its sequencer. When this track is selected, the encoder knobs can be used to control the sequencer and Transport bar in the following ways:

Knob	Transport Track Assignment
Knob E1	Tempo BPM
Knob E2	Song Position
Knob E3	Click On/Off
Knob E4	Click Level
Knob E5	Left Loop locator (Bar)
Knob E6	Right Loop locator (Bar)
Knob E7	Left Loop locator (Beat)
Knob E8	Right Loop locator (Beat)

Reason Device Mappings

Mixer Devices

Mixer 14:2

Mixer 14:2 is a stereo mixer with 14 channels. Since Axiom Pro can only control eight of those channels at one time, you must use F-Keys F6 and F7 (F1+F2 and F1+F3 for Axiom Pro 25 users) to select between channels 1-8 and 9-14 respectively.

The tables below describe the functionality of the Axiom Pro controls:

Axiom Pro 49/61 Encoder Knobs:

Soft-Key	1	2	3	4
Page 1	Pan	EQ Enable	Aux 1	-
Page 2	-	Bass	Aux 2	-
Page 3	-	Treble	Aux 3	-
Page 4	-	-	Aux 4	-
Page 5	-	-	Aux Returns	-

Slider	**Mixer 14:2** *(Chan. 1-8 selected)*	**Mixer 14:2** *(Chan. 9-14 selected)*
S1	Channel 1 level	Channel 9 level
S2	Channel 2 level	Channel 10 level
S3	Channel 3 level	Channel 11 level
S4	Channel 4 level	Channel 12 level
S5	Channel 5 level	Channel 13 level
S6	Channel 6 level	Channel 14 level
S7	Channel 7 level	-
S8	Channel 8 level	-
S9	Master level	Master level

Axiom Pro 25 Encoder Knobs:

Soft-Key	1	2	3	4
Page 1	Level	Pan	EQ Enable	Aux 1
Page 2	-	-	Bass	Aux 2
Page 3	-	-	Treble	Aux 3
Page 4	-	-	-	Aux 4
Page 5	-	-	-	Aux Returns

Mixer 6:2

Mixer 6:2 is a stereo mixer with six channels. When using this Device, the Soft-Keys assign encoder knobs E1-E8 to control the pan and aux knobs of the mixer (Axiom Pro 25 users also have a third Soft-Key option letting the encoder knobs control track level).

The tables below describe the functionality of the Axiom Pro controls:

Axiom Pro 49/61 Encoder Knobs:

Soft-Key	1	2	3	4
Page 1	Pan	Aux	-	-

Slider	Mixer 6:2
S1	Channel 1 level
S2	Channel 2 level
S3	Channel 3 level
S4	Channel 4 level
S5	Channel 5 level
S6	Channel 6 level
S7	-
S8	-
S9	Master level

Axiom Pro 25 Encoder Knobs:

Soft-Key	1	2	3	4
Page 1	Level	Pan	Aux	-

Instrument Devices

Subtractor

Each time you select a sequencer track associated with a Subtractor Device, your Axiom Pro controls map to the default assignments listed in the tables below. Note that the default mapping varies between Axiom Pro 25 and Axiom Pro 49/61 since the smaller controller does not feature sliders or slider buttons.

If the default mapping does not include the control you would like to edit, Soft-Keys 1-4 (Oscs, Filts, LFOs, Envs) can be used to access additional parameters found in Subtractor. If you access one of these pages and would like to return to the default assignments, temporarily select a different track within the Reason sequencer and return to the Subtractor track once again (this can be done by using the F2 and F3 keys or using your computer's keyboard or mouse.)

Buttons F6 and F7 (F1+F2 and F1+F3 for Axiom Pro 25 users) are used to select the patch that is loaded in Subtractor.

✓ Axiom Pro 49/61 Users:

When editing Subtractor's sub-parameter pages, the Flip button [4] can be used to switch parameter assignments from the encoder knobs to the sliders.

Axiom Pro 49/61 - Default Assignments	
Knob E1	Osc1 Octave
Knob E2	Osc Mix
Knob E3	FM Amount
Knob E4	Mod Env Gain
Knob E5	Mod Env Attack
Knob E6	Mod Env Decay
Knob E7	Mod Env Sustain
Knob E8	Mod Env Release
Slider S1	Amp Env Attack
Slider S2	Amp Env Decay
Slider S3	Amp Env Sustain
Slider S4	Amp Env Release
Slider S5	Filter Freq
Slider S6	Filter Res
Slider S7	Filter Env Amount
Slider S8	LFO1 Amount
Slider S9	Master Volume
Button S10	Osc1 Wave
Button S11	Osc1 Phase Model
Button S12	Osc1 Kbd Track
Button S13	Ring Mod
Button S14	Filter Type
Button S15	LFO1 Wave
Button S16	Mod Env Dest
Button S17	LFO1 Dest

Axiom Pro 25 - Default Assignments	
Knob E1	Osc1 Wave
Knob E2	Osc1 Octave
Knob E3	Osc1 Semitone
Knob E4	Osc1 Fine Tune
Knob E5	FM Amount
Knob E6	FM Vel Amount
Knob E7	Mix Vel Amount
Knob E8	Osc Mix

If the default assignments do not contain the parameters you would like to edit, use Soft-Keys 1-4 to select additional parameters found within Subtractor:

Subtractor – Soft-Key 1 (Oscs)	
Page 1: Sub Osc 1	
Knob E1	Osc1 Wave
Knob E2	Osc1 Octave
Knob E3	Osc1 Semitone
Knob E4	Osc1 Fine Tune
Knob E5	FM Amount
Knob E6	FM Vel Amount
Knob E7	Mix Vel Amount
Knob E8	Osc Mix
Page 2: Sub Osc 2	
Knob E1	Osc2 Wave
Knob E2	Osc2 Octave
Knob E3	Osc2 Semitone
Knob E4	Osc2 Fine Tune
Knob E5	Osc2 Phase Diff
Knob E6	Noise Level
Knob E7	Noise Decay
Knob E8	Ring Mod

Subtractor – Soft-Key 2 (Flts)	
Page 1: Sub Flt1	
Knob E1	Filter Freq
Knob E2	Filter Res
Knob E3	Filter Kbd Track
Knob E4	Filter Type
Knob E5	Filter Freq Mod Wheel Amount
Knob E6	Filter Res Mod Wheel Amount
Knob E7	Filter Freq Ext Mod
Knob E8	-
Page 2: Sub Flt2	
Knob E1	Filter2 Freq
Knob E2	Filter2 Res
Knob E3	Filter Link Freq On/Off
Knob E4	Filter2 On/Off
Knob E5	Filter2 Freq Vel Amount
Knob E6	-
Knob E7	-
Knob E8	-
Page 3: SubFEnv	
Knob E1	Filter Env Attack
Knob E2	Filter Env Decay
Knob E3	Filter Env Sustain
Knob E4	Filter Env Release
Knob E5	Filter Env Amount
Knob E6	Filter Env Invert
Knob E7	Filter Env Vel Amount
Knob E8	Filter Decay Vel Amount

Subtractor – Soft-Key 3 (LFOs)	
Page 1:Sub LFO1	
Knob E1	LFO1 Amount
Knob E2	LFO1 Rate
Knob E3	LFO Sync Enable
Knob E4	LFO1 Wave
Knob E5	LFO1 Dest
Knob E6	LFO1 Mod Wheel Amount
Knob E7	LFO1 Ext Mod
Knob E8	Portamento
Page 2: Sub LFO2	
Knob E1	LFO2 Amount
Knob E2	LFO2 Rate
Knob E3	LFO2 Kbd Track
Knob E4	LFO2 Delay
Knob E5	LFO2 Dest
Knob E6	LFO1 Mod Wheel Amount
Knob E7	LFO1 Ext Mod
Knob E8	Portamento

Subtractor – Soft-Key 4 (Envs)	
Page 1: Sub M. Env	
Knob E1	Mod Env Attack
Knob E2	Mod Env Decay
Knob E3	Mod Env Sustain
Knob E4	Mod Env Release
Knob E5	Mod Env Dest
Knob E6	Mod Env Invert
Knob E7	Mod Env Vel Amount
Knob E8	Mod Env Gain
Page 2: Sub A. Env	
Knob E1	Amp Env Attack
Knob E2	Amp Env Decay
Knob E3	Amp Env Sustain
Knob E4	Amp Env Release
Knob E5	Amp Ext Mod
Knob E6	Amp Vel Amount
Knob E7	Amp Attack Vel Amount
Knob E8	-

Thor

Thor is a powerful synthesizer that includes multiple oscillators, filters, effects, as well as an arppegiator and numerous modulation routing options. Due to the large number of controls that Thor provides, the operation of the Soft-Keys in HyperControl is different compared to other Reason instruments.

Each time you select a sequencer track associated with a Thor Device, your Axiom Pro controls map to the default assignments listed in the “Home Page” tables shown below. Note that the default mapping varies between Axiom Pro 25 and Axiom Pro 49/61 since the smaller controller does not feature sliders or slider buttons.

The Home page is like a “main menu” and maps the Axiom Pro controls to some of the most commonly used controls found throughout the synthesizer. The Home page also includes four Soft-Key options: Synth, FX, ModBk, and Arp. Selecting any of these options takes you to a new sub-menu page containing more specific parameters pertaining to that selection. For example, selecting Soft-Key 1 (Synth) from the Home page will take you to a sub-menu that contains a variety of parameters and Soft-Keys relating to the “core” Synthesizer portion of Thor (this includes Soft-Keys for Oscillators, Filters, and Modulation).

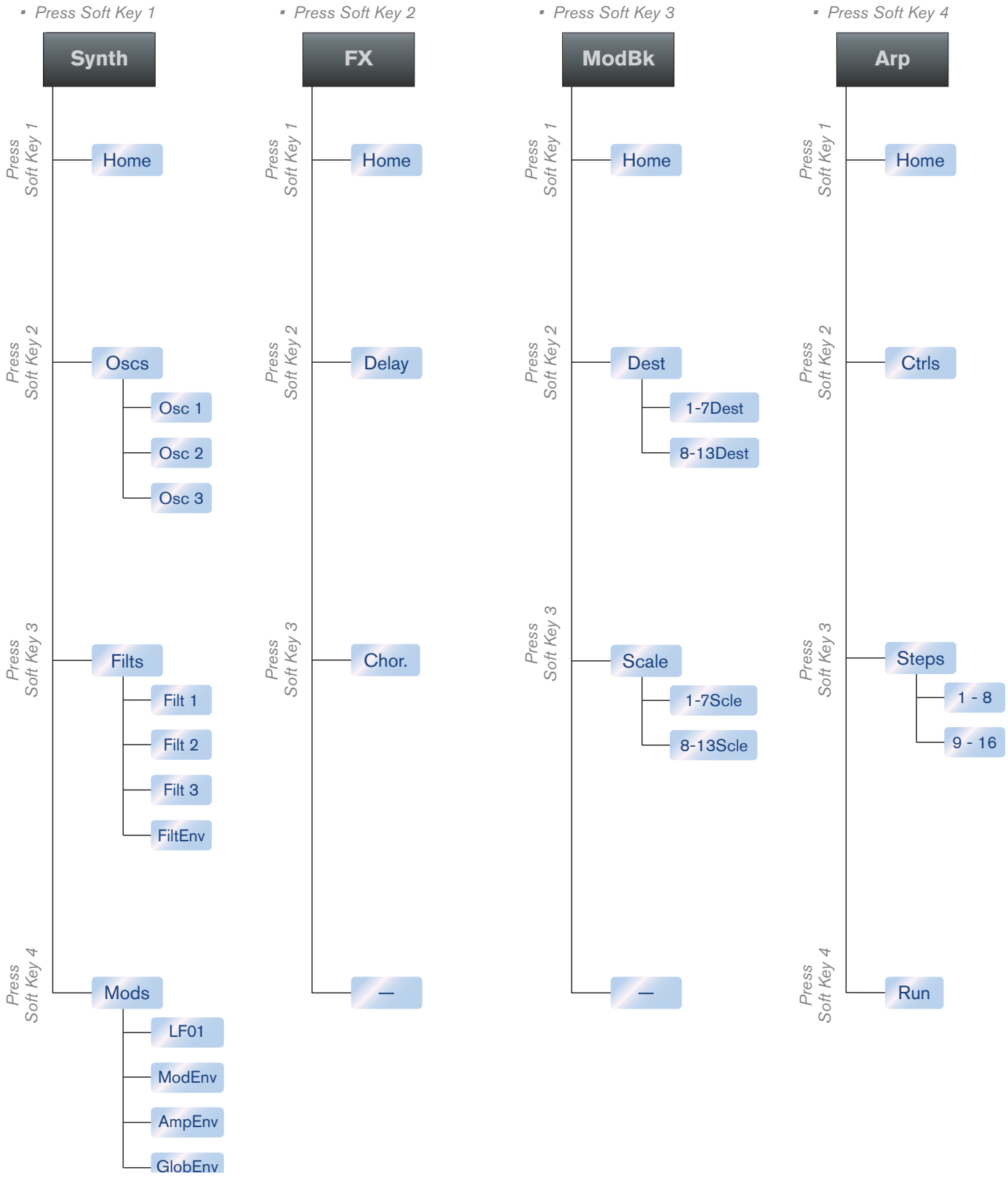
To return to the Home page from any of the sub-menus, press Soft-Key 1 (Home).

F-Keys F6 and F7 (F1+F2 and F1+F3 for Axiom Pro 25 users) are used to select the patch that is loaded in Thor.

✓ Axiom Pro 49/61 Users:

When editing Thor’s sub-parameter pages, the Flip button [4] can be used to switch parameter assignments from the encoder knobs to the sliders.

Thor HyperControl Menu Structure



Thor "Home" Page – Axiom Pro 49/61	
Knob E1	Filter 3 Freq
Knob E2	Filter 3 Res
Knob E3	Filter 3 Drive
Knob E4	Global Env Delay
Knob E5	Global Env Attack
Knob E6	Global Env Decay
Knob E7	Global Env Sustain
Knob E8	Global Env Release
Slider S1	Rotary 1
Slider S2	Rotary 2
Slider S3	Osc 1 And 2 Balance
Slider S4	Osc 1 And 2 Level
Slider S5	Osc 3 Level
Slider S6	Amplifier Velocity
Slider S7	Amplifier Gain
Slider S8	Amplifier Pan
Slider S9	Master Volume
Button S10	Osc 1 To Filter 1 Enable
Button S11	Osc 2 To Filter 1 Enable
Button S12	Osc 3 To Filter 1 Enable
Button S13	Osc 1 To Filter 2 Enable
Button S14	Osc 2 To Filter 2 Enable
Button S15	Osc 3 To Filter 2 Enable
Button S16	Delay On
Button S17	Chorus On

Thor "Home" Page – Axiom Pro 25	
Knob E1	Rotary 1
Knob E2	Rotary 2
Knob E3	Button 1
Knob E4	Button 2
Knob E5	Osc 1 And 2 Balance
Knob E6	Osc 1 And 2 Level
Knob E7	Osc 3 Level
Knob E8	Master Level

Synth Sub-Menu Pages:

The Synth sub-menu lets you access various parameters relating to the synthesizer “core” of Thor including the oscillator, filter, and modulation controls.

Soft-Keys 2-4 (Oscs, Filts, and Mods) let you assign various parameters to the encoder knobs as shown in the table below.

Soft-Key 1 (Home) returns you to the Thor Home page.

Soft-Key 2 (Osc)	
Page 1: Osc 1	
Knob E1	Osc 1 Oct
Knob E2	Osc 1 Semi
Knob E3	Osc 1 Tune
Knob E4	Osc 1 Type
Knob E5	Osc 1 Param B
Knob E6	Osc 1 Param C
Knob E7	Osc 1 Kbd
Knob E8	Osc 1 Mod
Page 2: Osc 2	
Knob E1	Osc 2 Oct
Knob E2	Osc 2 Semi
Knob E3	Osc 2 Tune
Knob E4	Osc 2 Type
Knob E5	Osc 2 Param B
Knob E6	Osc 2 Param C
Knob E7	Osc 2 Kbd
Knob E8	Osc 2 Mod
Page 3: Osc 3	
Knob E1	Osc 3 Oct
Knob E2	Osc 3 Semi
Knob E3	Osc 3 Tune
Knob E4	Osc 3 Type
Knob E5	Osc 3 Param B
Knob E6	Osc 3 Param C
Knob E7	Osc 3 Kbd
Knob E8	Osc 3 Mod

Soft-Key 3 (Filt)	
Page 1: Filter 1	
Knob E1	Filter 1 Freq
Knob E2	Filter 1 Res
Knob E3	Filter 1 Drive
Knob E4	Filter 1 Type
Knob E5	Filter 1 Param X
Knob E6	Shaper Type
Knob E7	Shaper Drive
Knob E8	Filter 1 Velocity
Page 2: Filter 2	
Knob E1	Filter 2 Freq
Knob E2	Filter 2 Res
Knob E3	Filter 2 Drive
Knob E4	Filter 2 Type
Knob E5	Filter 2 Param X
Knob E6	Filter 2 Param Y
Knob E7	Filter 2 Kbd
Knob E8	Filter 2 Velocity
Page 3: Filter 3	
Knob E1	Filter 3 Freq
Knob E2	Filter 3 Res
Knob E3	Filter 3 Drive
Knob E4	Filter 3 Type
Knob E5	Filter 3 Param X
Knob E6	Filter 3 Param Y
Knob E7	Filter 3 Kbd
Knob E8	Filter 3 Velocity
Page 4: Filt Env	
Knob E1	Filter Env Attack
Knob E2	Filter Env Decay
Knob E3	Filter Env Sustain
Knob E4	Filter Env Release
Knob E5	Filter Env Gate Trig On
Knob E6	Filter 1 Env Amount
Knob E7	Filter 2 Env Amount
Knob E8	Filter 3 Global Env Amount

Soft-Key 4 (Mods)	
Page 1: LFO 1	
Knob E1	LFO 1 Waveform
Knob E2	LFO 1 Rate
Knob E3	LFO 1 Delay
Knob E4	LFO 1 KbdFollow
Knob E5	LFO 1 Key Sync
Knob E6	LFO 1 Tempo Sync
Knob E7	-
Knob E8	-
Page 2: ModEnv	
Knob E1	Mod Env Delay
Knob E2	Mod Env Attack
Knob E3	Mod Env Decay
Knob E4	Mod Env Release
Knob E5	Mod Env Gate Trig on
Knob E6	Mod Env Tempo Sync
Knob E7	Mod Env Loop
Knob E8	-
Page 3: AmpEnv	
Knob E1	Amp Env Attack
Knob E2	Amp Env Decay
Knob E3	Amp Env Sustain
Knob E4	Amp Env Release
Knob E5	Amp Env Gate Trig on
Knob E6	Amplifier Velocity
Knob E7	Amplifier Pan
Knob E8	Amplifier Gain
Page 4: Glob. Env	
Knob E1	Global Env Delay
Knob E2	Global Env Attack
Knob E3	Global Env Hold
Knob E4	Global Env Decay
Knob E5	Global Env Loop
Knob E6	Global Env Sustain
Knob E7	Global Env Release
Knob E8	Filter 3 Global Env Amount

FX Sub-Menu

The FX sub-menu lets you access various parameters relating to the Delay and Chorus effects within Thor. Soft-Keys 2-3 let you assign parameters to the encoder knobs as shown in the table below.

Soft-Key 1 (Home) returns you to the Thor Home page.

Soft-Key 2 (Delay)	
Knob E1	Delay Amt
Knob E2	Delay Rate
Knob E3	Delay Time
Knob E4	Delay Feedback
Knob E5	Delay On
Knob E6	Delay Sync
Knob E7	-
Knob E8	Delay Dry Wet
Soft-Key 3 (Chorus)	
Knob E1	Chorus Amt
Knob E2	Chorus Rate
Knob E3	Chorus Delay
Knob E4	Chorus Feedback
Knob E5	Chorus On
Knob E6	-
Knob E7	-
Knob E8	Chorus Dry Wet

Modulation Sub-Menu

The ModBk sub-menu lets you access various parameters relating to modulation within the Thor synthesizer. Soft-Keys 2-3 let you assign various parameters to the encoder knobs as shown in the table below.

Soft-Key 1 (Home) returns you to the Thor Home page.

Soft-Key 2 (Dest)	
Page 1: Dest 1-7	
Knob E1	Mod 1 Dest Amount
Knob E2	Mod 2 Dest Amount
Knob E3	Mod 3 Dest Amount
Knob E4	Mod 4 Dest Amount
Knob E5	Mod 5 Dest Amount
Knob E6	Mod 6 Dest Amount
Knob E7	Mod 7 Dest Amount
Knob E8	-
Page 2: Dest 8-13	
Knob E1	Mod 8 Dest Amount
Knob E2	Mod 9 Dest Amount
Knob E3	Mod 10 Dest Amount
Knob E4	Mod 11 Dest Amount
Knob E5	Mod 12 Dest Amount
Knob E6	Mod 13 Dest Amount
Knob E7	-
Knob E8	-
Soft-Key 3 (Scale)	
Page 1: Scale 1-7	
Knob E1	Mod 1 Scale Amount
Knob E2	Mod 2 Scale Amount
Knob E3	Mod 3 Scale Amount
Knob E4	Mod 4 Scale Amount
Knob E5	Mod 5 Scale Amount
Knob E6	Mod 6 Scale Amount
Knob E7	Mod 7 Scale Amount
Knob E8	-
Page 1: Scale 8-13	
Knob E1	Mod 8 Scale Amount
Knob E2	Mod 9 Scale Amount
Knob E3	Mod 10 Scale Amount
Knob E4	Mod 11 Scale Amount
Knob E5	Mod 12 Scale Amount
Knob E6	Mod 13 Scale Amount
Knob E7	-
Knob E8	-

Arpeggiator Sub-Menu

The Arp sub-menu lets you access various parameters relating to the operation of the Thor arpeggiator. Soft-Keys 2-3 let you assign various parameters to the encoder knobs as shown in the table below.

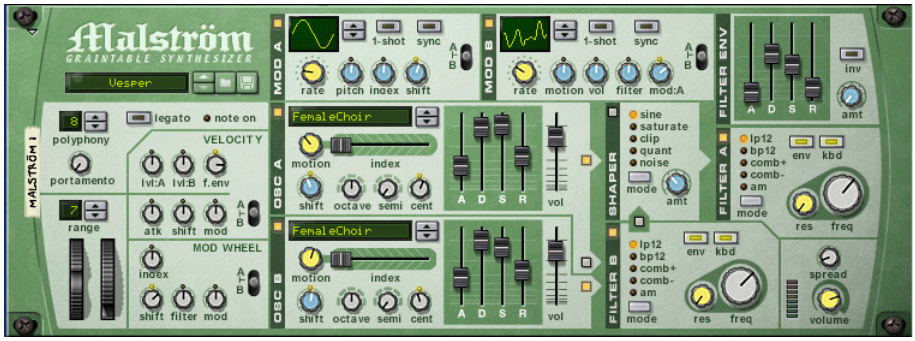
Soft-Key 4 (Run) lets you start and stop the arpeggiator.

Soft-Key 1 (Home) returns you to the Thor Home page.

Soft-Key 2 (Ctrls)	
Knob E1	Step Sequencer Edit Mode
Knob E2	Step Sequencer Octave Range
Knob E3	Step Sequencer Synced
Knob E4	Step Sequencer Rate
Knob E5	Step Sequencer Run Mode
Knob E6	Step Sequencer Direction
Knob E7	Step Sequencer Step Count
Knob E8	-
Soft-Key 3 (Steps)	
Page 1: Steps 1-8	
Knob E1	Pattern Step Knob 1
Knob E2	Pattern Step Knob 2
Knob E3	Pattern Step Knob 3
Knob E4	Pattern Step Knob 4
Knob E5	Pattern Step Knob 5
Knob E6	Pattern Step Knob 6
Knob E7	Pattern Step Knob 7
Knob E8	Pattern Step Knob 8
Page 2: Steps 9-16	
Knob E1	Pattern Step Knob 9
Knob E2	Pattern Step Knob 10
Knob E3	Pattern Step Knob 11
Knob E4	Pattern Step Knob 12
Knob E5	Pattern Step Knob 13
Knob E6	Pattern Step Knob 14
Knob E7	Pattern Step Knob 15
Knob E8	Pattern Step Knob 16

Malström

Each time you select a sequencer track associated with a Malström Device, your Axiom Pro controls map to the default assignments listed in the tables below. Note that the default mapping varies between Axiom Pro 25 and Axiom Pro 49/61 since the smaller controller does not feature sliders or slider buttons.



If the default mapping does not include the control you would like to edit, Soft-Keys 1-4 (Oscs, Filts, Mods, Vel) can be used to access additional parameters found in Malström. If you access one of these pages and would like to return to the default assignments, temporarily select a different track within the Reason sequencer and return to the Malström track once again (this can be done by using the F2 and F3 keys or using your computer's keyboard or mouse.)

F-Keys F6-F7 (F1+F2 and F1+F3 on Axiom Pro 25) can be used to select the patch that is currently loaded into Malström.

✓ Axiom Pro 49/61 Users:

When editing Malström's sub-parameter pages, the Flip button [4] can be used to switch parameter assignments from the encoder knobs to the sliders.

Axiom Pro 49/61 - Default Assignments	
Knob E1	Oscillator A Gain
Knob E2	Oscillator B Gain
Knob E3	Oscillator A Index
Knob E4	Oscillator B Index
Knob E5	Oscillator A Attack
Knob E6	Oscillator A Decay
Knob E7	Oscillator A Sustain
Knob E8	Oscillator A Release
Slider S1	Filter A Resonance
Slider S2	Filter A Freq
Slider S3	Filter B Resonance
Slider S4	Filter B Freq
Slider S5	Filter Env Attack
Slider S6	Filter Env Decay
Slider S7	Filter Env Sustain
Slider S8	Filter Env Release
Slider S9	Master Volume
Button S10	Filter A Mode
Button S11	Filter B Mode
Button S12	Oscillator A On/Off
Button S13	Oscillator B On/Off
Button S14	Modulator A On/Off
Button S15	Modulator A Target
Button S16	Modulator B On/Off
Button S17	Modulator B Target

Axiom Pro 25 - Default Assignments	
Knob E1	Oscillator B Shift
Knob E2	Oscillator B Octave
Knob E3	Oscillator B Semi
Knob E4	Oscillator B Cent
Knob E5	Oscillator B On/Off
Knob E6	Oscillator B Motion
Knob E7	Oscillator B Index
Knob E8	Oscillator B Gain

If the default assignments do not contain the parameters you would like to edit, use Soft-Keys 1-4 to select additional parameters found within Malström:

Malström – Soft-Key 1 (Oscs)	
Page 1: Mal Osc B	
Knob E1	Oscillator B Shift
Knob E2	Oscillator B Octave
Knob E3	Oscillator B Semi
Knob E4	Oscillator B Cent
Knob E5	Oscillator B On/Off
Knob E6	Oscillator B Motion
Knob E7	Oscillator B Index
Knob E8	Oscillator B Gain
Page 2: Mal Osc A	
Knob E1	Oscillator A Shift
Knob E2	Oscillator A Octave
Knob E3	Oscillator A Semi
Knob E4	Oscillator A Cent
Knob E5	Shaper Amount
Knob E6	Oscillator A Motion
Knob E7	Oscillator A Index
Knob E8	Oscillator A Gain
Page 3: MalEnvs	
Knob E1	Oscillator A Attack
Knob E2	Oscillator A Decay
Knob E3	Oscillator A Sustain
Knob E4	Oscillator A Release
Knob E5	Oscillator B Attack
Knob E6	Oscillator B Decay
Knob E7	Oscillator B Sustain
Knob E8	Oscillator B Release

Malström – Soft-Key 2 (Flts)	
Page 1: Mal FltB	
Knob E1	Filter B Freq
Knob E2	Filter B Resonance
Knob E3	Filter B Env
Knob E4	Filter B Mode
Knob E5	Filter B On/Off
Knob E6	Route Filter B To Shaper
Knob E7	Route Oscillator A To Filter B
Knob E8	Route Oscillator B To Filter B
Page 2: Mal FltA	
Knob E1	Filter A Freq
Knob E2	Filter A Resonance
Knob E3	Filter A Env
Knob E4	Filter A Mode
Knob E5	Filter A On/Off
Knob E6	Filter A Kbd Track
Knob E7	Mod Wheel To Filter
Knob E8	Mod Wheel Target
Page 3: MalFenv	
Knob E1	Filter Env Attack
Knob E2	Filter Env Decay
Knob E3	Filter Env Sustain
Knob E4	Filter Env Release
Knob E5	Filter Env Amount
Knob E6	Filter Env Invert
Knob E7	-
Knob E8	-

Malström – Soft-Key 3 (Mods)	
Page 1: Mal Mod A	
Knob E1	Modulator A Target
Knob E2	Modulator A Rate
Knob E3	Modulator A One Shot
Knob E4	Modulator A Curve
Knob E5	Modulator A On/Off
Knob E6	Modulator A to Pitch
Knob E7	Modulator A to Index
Knob E8	Modulator A to Shift
Page 2: Mal Mod B	
Knob E1	Modulator B Target
Knob E2	Modulator B Rate
Knob E3	Modulator B To Motion
Knob E4	Modulator B Curve
Knob E5	Modulator B On/Off
Knob E6	Modulator B To Level
Knob E7	Modulator B To Filter
Knob E8	Modulator B To Modulator A

Malström – Soft-Key 4 (Vel)	
Knob E1	Velocity Target
Knob E2	Velocity To Level A
Knob E3	Velocity To Level B
Knob E4	Velocity To Filter Env
Knob E5	Velocity To Attack
Knob E6	Velocity To Shift
Knob E7	Velocity To Modulator
Knob E8	-

NN19

Each time you select a sequencer track associated with an NN19 Device, your Axiom Pro controls map to the default assignments listed in the tables below. Note that the default mapping varies between Axiom Pro 25 and Axiom Pro 49/61 since the smaller controller does not feature sliders or slider buttons.

If the default mapping does not include the control you would like to edit, Soft-Keys 1-4 (Osc, Filt, LFO, Amp) can be used to access additional parameters found in NN19. If you access one of these pages and would like to return to the default assignments, temporarily select a different track within the Reason sequencer and return to the NN19 track once again (this can be done by using the F2 and F3 keys or using your computer's keyboard or mouse.)

F-Keys F6-F7 (F1+F2 and F1+F3 on Axiom Pro 25) can be used to select the patch that is currently loaded into NN19.

✓ Axiom Pro 49/61 Users:

When editing NN-19's sub-parameter pages, the Flip button [4] can be used to switch parameter assignments from the encoder knobs to the sliders.

Axiom Pro 49/61 - Default Assignments	
Knob E1	Filter Freq
Knob E2	Filter Res
Knob E3	Filter Mode
Knob E4	Filter Env Amount
Knob E5	Osc Octave
Knob E6	Osc Semitone
Knob E7	LFO Rate
Knob E8	LFO Amount
Slider S1	Amp Env Attack
Slider S2	Amp Env Decay
Slider S3	Amp Env Sustain
Slider S4	Amp Env Release
Slider S5	Filter Env Attack
Slider S6	Filter Env Decay
Slider S7	Filter Env Sustain
Slider S8	Filter Env Release
Slider S9	Master Volume
Button S10	LFO Sync Enable
Button S11	LFO Wave
Button S12	LFO Dest
Button S13	Osc Kbd Track
Button S14	Filter On/Off
Button S15	Filter Env Invert
Button S16	-
Button S17	-

Axiom Pro 25 - Default Assignments	
Knob E1	Osc Octave
Knob E2	Osc Semitone
Knob E3	Osc Fine Tune
Knob E4	Osc Kbd Track
Knob E5	Osc Env Amount
Knob E6	High Quality Interpolation
Knob E7	Sample Start
Knob E8	Sample Start Vel Amount

If the default assignments do not contain the parameters you would like to edit, use Soft-Keys 1-4 to select additional parameters found within NN19:

NN19 – Soft-Key 1 (Osc)	
Knob E1	Osc Octave
Knob E2	Osc Semitone
Knob E3	Osc Fine Tune
Knob E4	Osc Kbd Track
Knob E5	Osc Env Amount
Knob E6	High Quality Interpolation
Knob E7	Sample Start
Knob E8	Sample Start Vel Amount

NN19 – Soft-Key 2 (Flt)	
Page 1: NN19 Flt	
Knob E1	Filter Freq
Knob E2	Filter Res
Knob E3	Filter Kbd Track
Knob E4	Filter Mode
Knob E5	Filter On/Off
Knob E6	Filter Freq Mod Wheel Amount
Knob E7	Filter Res Mod Wheel Amount
Knob E8	Filter Freq Ext Mod
Page 2: NN19FEnv	
Knob E1	Filter Env Attack
Knob E2	Filter Env Decay
Knob E3	Filter Env Sustain
Knob E4	Filter Env Release
Knob E5	Filter Env Amount
Knob E6	Filter Decay Mod Wheel Amt
Knob E7	Filter Env Vel Amount
Knob E8	Filter Decay Vel Amount

NN19 – Soft-Key 3 (LFO)	
Knob E1	LFO Amount
Knob E2	LFO Rate
Knob E3	LFO Sync Enable
Knob E4	LFO Dest
Knob E5	LFO Wave
Knob E6	LFO Mod Wheel Amount
Knob E7	LFO Ext Mod
Knob E8	Portamento

NN19 – Soft-Key 4 (Amp)	
Knob E1	Amp Env Attack
Knob E2	Amp Env Decay
Knob E3	Amp Env Sustain
Knob E4	Amp Env Release
Knob E5	Amp Ext Mod
Knob E6	Amp Vel Amount
Knob E7	Amp Attack Vel Amount
Knob E8	Amp Mod Wheel Amount

NN-XT

Each time you select a track associated with the NN-XT Device, the encoders will take on the assignment shown in the table below.

✓ Axiom Pro 49/61 Users:

When editing Dr.Rex's sub-parameter pages, the Flip button [4] can be used to switch parameter assignments from the encoder knobs to the sliders.

Encoder	NN-XT Assignment
Knob E1	Filter Freq
Knob E2	Filter Res
Knob E3	Mod Env Decay
Knob E4	High Quality Interpolation
Knob E5	Amp Env Attack
Knob E6	Amp Env Decay
Knob E7	Amp Env Release
Knob E8	-

Dr. Rex

Each time you select a sequencer track associated with a Dr. Rex Device, your Axiom Pro controls map to the default assignments listed in the tables below. Note that the default mapping varies between Axiom Pro 25 and Axiom Pro 49/61 since the smaller controller does not feature sliders or slider buttons.

If the default mapping does not include the control you would like to edit, Soft-Keys 1-4 (Osc, Filt, LFO, Amp) can be used to access additional parameters found in Dr. Rex. If you access one of these pages and would like to return to the default assignments, temporarily select a different track within the Reason sequencer and return to the Dr. Rex track once again (this can be done by using the F2 and F3 keys or using your computer's keyboard or mouse.)

F-Keys F6-F7 (F1+F2 and F1+F3 on Axiom Pro 25) can be used to select the loop file that is currently loaded into Dr. Rex.

✓ **Axiom Pro 49/61 Users:**

When editing Dr.Rex's sub-parameter pages, the Flip button [4] can be used to switch parameter assignments from the encoder knobs to the sliders.

Axiom Pro 49/61 - Default Assignments	
Knob E1	Filter Freq
Knob E2	Filter Res
Knob E3	Filter Mode
Knob E4	Filter Env Amount
Knob E5	Osc Octave
Knob E6	Osc Env Amount
Knob E7	LFO Rate
Knob E8	LFO Amount
Slider S1	Amp Env Attack
Slider S2	Amp Env Decay
Slider S3	Amp Env Sustain
Slider S4	Amp Env Release
Slider S5	Filter Env Attack
Slider S6	Filter Env Decay
Slider S7	Filter Env Sustain
Slider S8	Filter Env Release
Slider S9	Master Volume
Button S10	LFO Sync Enable
Button S11	LFO Wave
Button S12	LFO Dest
Button S13	Osc Kbd Track
Button S14	Filter On/Off
Button S15	Filter Env Invert
Button S16	-
Button S17	-

Axiom Pro 25 - Default Assignments	
Knob E1	Osc Octave
Knob E2	Transpose
Knob E3	Osc Fine Tune
Knob E4	-
Knob E5	Osc Env Amount
Knob E6	High Quality
Knob E7	-
Knob E8	-

If the default assignments do not contain the parameters you would like to edit, use Soft-Keys 1-4 to select additional parameters found within Dr. Rex:

Dr. Rex – Soft-Key 1 (Osc)	
Knob E1	Osc Octave
Knob E2	Transpose
Knob E3	Osc Fine Tune
Knob E4	-
Knob E5	Osc Env Amount
Knob E6	High Quality
Knob E7	-
Knob E8	-

Dr. Rex – Soft-Key 2 (Flt)	
Page 1: DRex Fl	
Knob E1	Filter Freq
Knob E2	Filter Res
Knob E3	-
Knob E4	Filter Mode
Knob E5	Filter On/Off
Knob E6	-
Knob E7	Filter Res Mod Wheel Amount
Knob E8	Filter Freq Ext Mod
Page 2: DrexFEnv	
Knob E1	Filter Env Attack
Knob E2	Filter Env Decay
Knob E3	Filter Env Sustain
Knob E4	Filter Env Release
Knob E5	Filter Env Amount
Knob E6	Filter Decay Mod Wheel Amt
Knob E7	Filter Env Vel Amount
Knob E8	Filter Decay Vel Amount

Dr. Rex – Soft-Key 3 (LFO)	
Knob E1	LFO Amount
Knob E2	LFO Rate
Knob E3	LFO Sync Enable
Knob E4	LFO Dest
Knob E5	LFO Wave
Knob E6	-
Knob E7	-
Knob E8	-

Dr. Rex – Soft-Key 4 (Amp)	
Knob E1	Amp Env Attack
Knob E2	Amp Env Decay
Knob E3	Amp Env Sustain
Knob E4	Amp Env Release
Knob E5	Amp Ext Mod
Knob E6	-
Knob E7	-
Knob E8	-

Redrum

Redrum features two modes of operation: Mixer Mode and Drums Mode.
Soft-Key 1 ("Drums" or "Mixer") lets you toggle between these modes.

Mixer Mode:

This is the default mode of Redrum (i.e., when a Redrum track is selected within the Reason sequencer, this mode is selected). Mixer mode lets you set the level, send amount, and pan position for the individual drums within Redrum. The Soft-Keys 2-4 determine what is controlled by the encoder knobs.

Note that Axiom Pro 49/61 set drum levels using the sliders whereas Axiom Pro 25 controls drum levels using the encoder knobs when Soft-Key 2 (Level) is selected.

F-Keys F6 and F7 (F1+F2 and F1+F3 for Axiom Pro 25 users) let you access drums 1-8 and 9-10, respectively.

Axiom Pro 49 & 61 Encoder Knobs:

Soft-Key	1	2	3	4
Page 1	Drum Mode	Pan	Send 1	Send 2

Slider	Redrum (Drums 1-8)	Redrum (Drums 9-10)
S1	Drum 1 level	Drum 9 level
S2	Drum 2 level	Drum 10 level
S3	Drum 3 level	-
S4	Drum 4 level	-
S5	Drum 5 level	-
S6	Drum 6 level	-
S7	Drum 7 level	-
S8	Drum 8 level	-
S9	Master level	Master level

Axiom Pro 25 Encoder Knobs:

Soft-Key	1	2	3	4
Page 1	Drum Mode	Level	Pan	Send 1
Page 2	-	-	-	Send 2

Drum Mode:

This mode lets you change the parameters of the individual drums within Redrum.

Soft-Key 1 lets you toggle between Drum and Mixer modes. If you are in Drum mode, press this button to return to Mixer mode.

Soft-Keys 2-3 let you step through and select any of the 10 available drums. The selected drum is listed at the top-right of the display.

Soft-Key 4 (Solo) lets you solo/unsolo the currently selected drum.

The tables below describe how the encoder knobs map to each drum:

Drum 1		**Drum 2**	
Knob E1	Drum 1 Pitch	Knob E1	Drum 2 Pitch
Knob E2	Drum 1 Length	Knob E2	Drum 2 Length
Knob E3	Drum 1 Decay/Gate Mode	Knob E3	Drum 2 Decay/Gate Mode
Knob E4	Drum 1 Vel to Level	Knob E4	Drum 2 Vel to Level
Knob E5	Drum 1 Tone	Knob E5	Drum 2 Tone
Knob E6	Drum 1 Vel to Tone	Knob E6	Drum 2 Vel to Tone
Knob E7	-	Knob E7	-
Knob E8	Drum 1 Pan	Knob E8	Drum 2 Pan
Drum 3		**Drum 4**	
Knob E1	Drum 3 Pitch	Knob E1	Drum 4 Pitch
Knob E2	Drum 3 Length	Knob E2	Drum 4 Length
Knob E3	Drum 3 Decay/Gate Mode	Knob E3	Drum 4 Decay/Gate Mode
Knob E4	Drum 3 Vel to Level	Knob E4	Drum 4 Vel to Level
Knob E5	Drum 3 Sample Start	Knob E5	Drum 4 Sample Start
Knob E6	Drum 3 Vel to Sample Start	Knob E6	Drum 4 Vel to Sample Start
Knob E7	-	Knob E7	-
Knob E8	Drum 3 Pan	Knob E8	Drum 4 Pan
Drum 5		**Drum 6**	
Knob E1	Drum 5 Pitch	Knob E1	Drum 6 Pitch
Knob E2	Drum 5 Length	Knob E2	Drum 6 Length
Knob E3	Drum 5 Decay/Gate Mode	Knob E3	Drum 6 Decay/Gate Mode
Knob E4	Drum 5 Vel to Level	Knob E4	Drum 6 Vel to Level
Knob E5	Drum 5 Sample Start	Knob E5	Drum 6 Pitch Bend Rate
Knob E6	Drum 5 Vel to Sample Start	Knob E6	Drum 6 Vel to Pitch Bend
Knob E7	-	Knob E7	Drum 6 Pitch Bend Amount
Knob E8	Drum 5 Pan	Knob E8	Drum 6 Pan
Drum 7		**Drum 8**	
Knob E1	Drum 7 Pitch	Knob E1	Drum 8 Pitch
Knob E2	Drum 7 Length	Knob E2	Drum 8 Length
Knob E3	Drum 7 Decay/Gate Mode	Knob E3	Drum 8 Decay/Gate Mode
Knob E4	Drum 7 Vel to Level	Knob E4	Drum 8 Vel to Level
Knob E5	Drum 7 Pitch Bend Rate	Knob E5	Drum 8 Sample Start
Knob E6	Drum 7 Vel to Pitch Bend	Knob E6	Drum 8 Vel to Sample Start
Knob E7	Drum 7 Pitch Bend Amount	Knob E7	-
Knob E8	Drum 7 Pan	Knob E8	Drum 8 Pan
Drum 9		**Drum10**	
Knob E1	Drum 9 Pitch	Knob E1	Drum 10 Pitch
Knob E2	Drum 9 Length	Knob E2	Drum 10 Length
Knob E3	Drum 9 Decay/Gate Mode	Knob E3	Drum 10 Decay/Gate Mode
Knob E4	Drum 9 Vel to Level	Knob E4	Drum 10 Vel to Level
Knob E5	Drum 9 Sample Start	Knob E5	Drum 10 Tone
Knob E6	Drum 9 Vel to Sample Start	Knob E6	Drum 10 Vel to Tone
Knob E7	-	Knob E7	-
Knob E8	Drum 9 Pan	Knob E8	Drum 10 Pan

Effects Devices

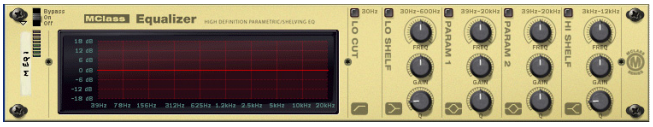
Reason has 18 additional effects Devices that can be controlled using HyperControl.

Keep in mind that when you create an effects Device within Reason, a sequencer track is not automatically created for that Device. This means you must manually create a sequencer track before that Device can be controlled using HyperControl. To do this, right-click (Ctrl-click for Mac users) on your newly created effects Device and choose "Create sequencer Track" from the menu that appears. Once the sequencer track is created, select that track and the device will automatically map its on-screen controls to the Axiom Pro encoder knobs as described in the tables below:

✓ **What about the sliders and slider buttons?**

Effects Devices do not use the sliders or slider buttons found on Axiom Pro 49/61. However, if the Flip button [4] is pressed, Flipped Faders mode is engaged, and the sliders can be used instead of the encoder knobs to modify the effect parameters. Press the Flip button again to disengage Flipped Faders mode and return control back to the encoder knobs.

MClass Equalizer	
Soft-Key 1: EQ p1/Lo	
Knob E1	Low Shelf Frequency
Knob E2	Low Shelf Gain
Knob E3	Low Shelf Q
Knob E4	Low Shelf Enable
Knob E5	Parametric 1 Frequency
Knob E6	Parametric 1 Gain
Knob E7	Parametric 1 Q
Knob E8	Parametric 1 Enable
Soft-Key 2: EQ p2/Hi	
Knob E1	Low Shelf Frequency
Knob E2	Low Shelf Gain
Knob E3	Low Shelf Q
Knob E4	Low Shelf Enable
Knob E5	Parametric 1 Frequency
Knob E6	Parametric 1 Gain
Knob E7	Parametric 1 Q
Knob E8	Parametric 1 Enable
Soft-Key 4: On/By	
Press Soft-Key 4 to bypass/enable this Device.	



MClass Stereo Imager	
Knob E1	Low Width
Knob E2	X-Over Frequency
Knob E3	High Width
Knob E4	Solo Mode
Knob E5	Separate Out Mode
Knob E6	-
Knob E7	-
Knob E8	-
Soft-Key 4: On/By	
Press Soft-Key 4 to bypass/enable this Device.	

MClass Compressor	
Knob E1	Threshold
Knob E2	Soft Knee
Knob E3	Ratio
Knob E4	Input Gain
Knob E5	Attack
Knob E6	Release
Knob E7	Adapt
Knob E8	Output Gain
Soft-Key 1: Side	
Press Soft-Key 1 to solo/un-solo the sidechain input.	
Soft-Key 4: On/By	
Press Soft-Key 4 to bypass/enable this Device.	

MClass Maximizer	
Knob E1	Soft Clip Amount
Knob E2	Soft Clip Enable
Knob E3	Look Ahead Enable
Knob E4	Input Gain
Knob E5	Limiter Enable
Knob E6	Attack Speed
Knob E7	Release Speed
Knob E8	Output Gain
Soft-Key 4: On/By	
Press Soft-Key 4 to bypass/enable this Device.	

RV7000 Advanced Reverb	
Soft-Key 1: Main	
Knob E1	Decay
Knob E2	HF Damp
Knob E3	Hi EQ
Knob E4	Dry/Wet
Knob E5	Select Patch
Knob E6	Gate On/Off
Knob E7	EQ On/Off
Knob E8	-
Soft-Key 2: Soft	
Knob E1	Soft Knob 1
Knob E2	Soft Knob 2
Knob E3	Soft Knob 3
Knob E4	Soft Knob 4
Knob E5	Soft Knob 5
Knob E6	Soft Knob 6
Knob E7	Soft Knob 7
Knob E8	Soft Knob 8
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

Scream Distortion	
Soft-Key 1: Damage	
Knob E1	Damage Control
Knob E2	Damage Type
Knob E3	Parameter 1
Knob E4	Parameter 2
Knob E5	Damage On/Off
Knob E6	-
Knob E7	-
Knob E8	Master Level
Soft-Key 2: Body	
Knob E1	Body Resonance
Knob E2	Body Scale
Knob E3	Body Auto
Knob E4	Body Type
Knob E5	Body On/Off
Knob E6	-
Knob E7	-
Knob E8	Master Level
Soft-Key 3: Cut	
Knob E1	Cut Lo
Knob E2	Cut Mid
Knob E3	Cut Hi
Knob E4	-
Knob E5	Cut On/Off
Knob E6	-
Knob E7	-
Knob E8	Master Level
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

BV512 Digital Vocoder (Ctrls Page)	
Default Encoder Knob Assignments	
Knob E1	Band Count
Knob E2	Vocoder/Equalizer
Knob E3	Attack
Knob E4	Decay
Knob E5	Shift
Knob E6	HF Emphasis
Knob E7	Dry/Wet
Knob E8	Hold
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

About BV512: Pressing Soft-Key 1 (Bands) lets you toggle between the default "Ctrls" page (shown in the table above) and the "Bands" pages (listed below). The Bands pages let you individually adjust the level for each of the 32 bands.

BV512 Digital Vocoder (Bands Pages)							
Page 1		**Page 2**		**Page 3**		**Page 4**	
Knob E1	Lvl 1	Knob E1	Lvl 9	Knob E1	Lvl 17	Knob E1	Lvl 25
Knob E2	Lvl 2	Knob E2	Lvl 10	Knob E2	Lvl 18	Knob E2	Lvl 26
Knob E3	Lvl 3	Knob E3	Lvl 11	Knob E3	Lvl 19	Knob E3	Lvl 27
Knob E4	Lvl 4	Knob E4	Lvl 12	Knob E4	Lvl 20	Knob E4	Lvl 28
Knob E5	Lvl 5	Knob E5	Lvl 13	Knob E5	Lvl 21	Knob E5	Lvl 29
Knob E6	Lvl 6	Knob E6	Lvl 14	Knob E6	Lvl 22	Knob E6	Lvl 30
Knob E7	Lvl 7	Knob E7	Lvl 15	Knob E7	Lvl 23	Knob E7	Lvl 31
Knob E8	Lvl 8	Knob E8	Lvl 16	Knob E8	Lvl 24	Knob E8	Lvl 32
Soft-Key 2: <							
Soft-Key 2 lets you access the previous bank of vocoder volume bands. For example if banks 9-16 are currently listed, pressing this button will list banks 1-8.							
Soft-Key 3: >							
Soft-Key 2 lets you access the next bank of vocoder volume bands. For example if banks 9-16 are currently listed, pressing this button will list banks 17-24.							
Soft-Key 4: On/By							
This Device can be bypassed/enabled by pressing Soft-Key 4.							

RV-7 Digital Reverb	
Knob E1	Size
Knob E2	Decay
Knob E3	Damping
Knob E4	Dry/Wet
Knob E5	Algorithm
Knob E6	-
Knob E7	-
Knob E8	-
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

DDL-1 Digital Delay Line	
Knob E1	Delay Time (steps)
Knob E2	Delay Time (ms)
Knob E3	Unit
Knob E4	Step Length
Knob E5	Feedback
Knob E6	Pan
Knob E7	Dry/Wet Balance
Knob E8	-
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

D-11 Foldback Distortion	
Knob E1	Amount
Knob E2	Foldback
Knob E3	-
Knob E4	-
Knob E5	-
Knob E6	-
Knob E7	-
Knob E8	-
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

ECF-42 Envelope Controlled Filter	
Knob E1	Frequency
Knob E2	Resonance
Knob E3	Env Amount
Knob E4	Velocity
Knob E5	Attack
Knob E6	Decay
Knob E7	Sustain
Knob E8	Release
Soft-Key 1: Mode	
Press Soft-Key 1 lets you step through the various filter modes available to ECF-42 (BP 12, LP 12, LP 24).	
Soft-Key 4: On/By	
Press Soft-Key 4 to bypass/enable this Device.	

CF-101 Chorus/Flanger	
Knob E1	Delay
Knob E2	Feedback
Knob E3	Rate
Knob E4	Modulation Amount
Knob E5	LFO Sync Enable
Knob E6	Send/Insert Mode
Knob E7	-
Knob E8	-
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

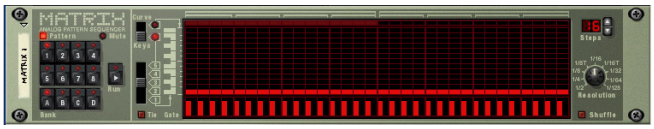
PH-90 Phaser	
Knob E1	Frequency
Knob E2	Split
Knob E3	Width
Knob E4	Rate
Knob E5	Frequency Modulation
Knob E6	Feedback
Knob E7	LFO Sync Enable
Knob E8	-
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

UN-16 Unison	
Knob E1	Detune
Knob E2	Dry/Wet
Knob E3	Voice Count
Knob E4	-
Knob E5	-
Knob E6	-
Knob E7	-
Knob E8	-
Soft-Key 4: On/By	
This Device can be bypassed/enabled by pressing Soft-Key 4.	

COMP-01 Compressor/Limiter	
Knob E1	Ratio
Knob E2	Threshold
Knob E3	Attack
Knob E4	Release
Knob E5	-
Knob E6	-
Knob E7	-
Knob E8	-

PEQ-2 Two Band Parametric EQ	
Knob E1	Filter A Freq
Knob E2	Filter A Q
Knob E3	Filter A Gain
Knob E4	-
Knob E5	Filter B Freq
Knob E6	Filter B Q
Knob E7	Filter B Gain
Knob E8	Filter B On/Off

Matrix Pattern Sequencer	
Knob E1	Bank Select
Knob E2	Pattern Select in Bank
Knob E3	-
Knob E4	-
Knob E5	Resolution
Knob E6	-
Knob E7	-
Knob E8	-



RPG-8 Monophonic Arpeggiator	
Knob E1	Velocity/Manual
Knob E2	Mode
Knob E3	Octave
Knob E4	Insert
Knob E5	Octave Shift
Knob E6	Rate
Knob E7	Gate Length
Knob E8	Pattern Step Count

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