

Torq[®] Controller Assignments User Guide

Version 2.0

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Chapter 1: Introduction

Purpose of This Guide

This User Guide provides details about the extensive and powerful features of the Torq[®] 2.0 Controller Assignments Page.

In addition to the MIDI control assignment and MIDI Learn methods detailed in Chapter 14 of the Torq User Guide, Torq also lets you make highly detailed control assignments via the Controller Assignments Page. Using the Controller Assignments Editor (see Chapter 3, "Assignments Editor") you can view, edit, or create hardware control assignments for qualified control hardware such as Torq Xponent, as well as the keys on your computer keyboard.

This functionality also allows you to edit and create output of feedback or information from Torq to qualified control hardware such as Torq Xponent. An example of this output information is the pre-configured MIDI LED Sync, which causes the buttons on your hardware to flash in time with the Master Tempo in Torq (see Chapter 12 of the Torq 2.0 User guide). If you are not using a qualified third party Torq controller, you can use the Controller Assignments Page to create custom assignments for your hardware.

Although, the Controller Assignment Page is an extremely powerful tool, you should really take the time to familiarize yourself with Torq in as much detail as possible before attempting to change or create controller assignments. However, you can always reset qualified controllers to their default mappings by clicking the reset button.

Using the Controller Assignment Page Vs. Right Click Mapping

Most Torq functions are easily mapped by right-clicking the parameter in the Torq interface. On qualified hardware, right click mapping not only maps the external controller to a Torq function, it also automatically configures feedback if your external controller has bi-directional MIDI feedback. This illuminates the corresponding button when the function is engaged in Torq (if the hardware supports it). Additionally, the right click mapping sets up any default secondary or shift functionality associated with the Torq feature.

Because of this, it may be quicker and easier to use right click mapping through the Controller Assignment Page. The Cue function is a good example of this. Right clicking and mapping this function creates 3 mappings, which are also viewable in the device's Controller Assignment Window:

1 Cue Action – the default Cue behavior assignment for the button

2 SetCuePoint – the shift click or alternate functionality associated with the cue button

3 CueLEDState – the MIDI feedback assignment which allows Torq to light up the MIDI controller button to show that the function is engaged.

In this example, it is useful to map using a right click, given the time involved to set up the controller assignments.

However, some controls, such as wheels or platters on MIDI controllers require the use of the Controller Assignment Page to configure and are too complex to map with a simple right click. In many cases, the use of the Controller Assignment Page is necessary to configure items such as endless rotary encoders or non standard controllers. Additionally, the Controller Assignment Page gives an additional level of customization. With it, it is possible to invert knobs values, create new secondary functions to buttons and limit the range of a knob or slider. The Controller Assignment Window can also be used to configure VU meters and other visual feedback mechanisms if your MIDI controller supports them.

Keep in mind that the vast majority of buttons and knobs are right clickable, and therefore the right click is a good place to start when mapping a MIDI controller. If necessary, functions that were mapped via right clicked can later be further edited via the Controller Assignment Page.

Chapter 2: Controller Assignments Page

Accessing the Controller Assignments Page



Torg Preferences Icon

To access the Controller Assignments Page click on the Preferences icon in the Torq Toolbar, and then click the Controller Assignments button at the bottom of the Preferences screen. Once the Controller Assignments Page opens you will see that it displays the parameters and buttons explained below, whenever you select an assignment from the list or create a new one.

		US8 Xponent		UMPORT EX	PORT RESET CLEAR
	INPUT	OUTPUT	GLDIML D	ECK 1 DECK 3	DECK 9 DECK 4
Deck1 - EXElack	- FX4 - ParamKno	50			
Decki - PAHack	- FAT - ERGOR	-			
Deck1 - FXRack	- FXI - Paramout	1011 tonShi#			
Deckt - FXRack	- FX2 - Enable	201131111			
Deck1 - FXRack	- FX2 - ParamBut	100			
Deckt - FXRack	- FX2 - ParamBut	tonShift			
Deck1 - FXRack	- FX3 - Enable				
MIDI INPUT	Deckt - FX	(Rack - FX1 - Enable	NEW INPUT	NEW OUTPUT	DUPLICATE DELETE
PATH		AMEINED	ECKIAMBER F KRACK FX	ENAME	
MIDI MESSAGE	MIDI CHANNE	EL NOTECCINDEX	FEEDBACK INDEX		
Note			No Feedback		LEARN
	CONTROL TYP		COND		
	Button				
BUTTON ACT			COND		
Toggle Valu	es 🔹	Left ·			
BUTTON VAL	UE 1 BEES	BET ON DESKEWITCH	COND		
On					
			['DI CONDING	NIS
110					

Torq Controller Assignments Page - MIDI Input

Device

Clicking this pop-up menu displays a list of connected control devices that are connected to you computer, including the computer keyboard itself. Choosing one of these option lets you edit or create control assignments specific to that device.

E Refer to Chapter 5, "Keyboard Input Assignments" for more information about assigning the keys on your computer keyboard to Torq functions and parameters.

Import Button

This button lets you import previously saved or backed-up controller assignments for the selected control device by clicking this button and navigating to the folder where the assignments file (in XML format) is located. Once you have found the file click "Open" (Mac) or "Ok" (Windows) to load the assignments into Torq.

Export Button

Clicking this button lets you save all current controller assignments for the selected device to you hard drive as an XML file. It's definitely a good idea to save your current assignments before making changes or creating new ones.

Reset Button

Clicking this button automatically recalls the factory controller assignments for the selected device, even if you've accidentally deleted all of the assignments.

Clear Button

Clicking this button deletes all current controller assignments for the selected device.

Filter Buttons

These buttons let you view the current assignments based on the type of function. The available function types are Global and Deck Based. This information is displayed in the Assignment List immediately below the Filter buttons. Clicking on an item in the Assignment List displays the Assignment details and parameters in Assignments Editor located in the lower half of the Controller Assignments Page. An explanation of each filter follows.

Input

Clicking this button displays the list of current controller assignments in the Assignments List for all assigned inputs. These assignments represent the mapping of hardware controls to the knobs, buttons and faders in the Torq GUI.

Output

Clicking the Output button displays the list of Output assignments in the Assignments List for all assigned outputs. These assignments represent the mapping of information sent from Torq to the various controls and displays on your hardware such as the Level Meters. This button is not available when mapping the keys on your computer keyboard to various Torq functions and parameters (see Chapter 5, "Keyboard Input Assignments").

Refer to Chapter 6, "MIDI Output Assignments" for more information.

Global

Clicking this button in combination with the Input or Output buttons displays the list of assignments for Global functions such as the Crossfader and other Master Functions within Torq.

Deck Buttons (1 through 4)

These correspond to Decks A, B, C, and D respectively. Clicking any or all of them in combination with the Input or Output buttons displays the list of assignments for Deck functions such as Deck Speed, Looping, EQ functions and effects parameters on a per Deck basis.

Chapter 3: Assignments Editor

MIDI Assignment Parameters

The MIDI Assignment Parameter section allows you to create new or edit existing controller assignments for any MIDI devices connected to the system. For example choosing "Deck1 -FXRACK - FX1 -Enable" from the list displays details about the assignment are displayed in Assignment Editor, located in the lower half of the Controller Assignments Page.

You can also click different combinations of Filter buttons, and select various assignments in the Assignments List to see the different options used for mapping various Torq functions. Any accidental changes or deletions can be restored by clicking the Reset button.

MIDIINPUT	Deck	1 - FXRac	k - FX1 - Enable	NEW INPUT	NEW OUTPUT	DUPLICATE	DELETE
PATH			/ENGINE/D	ECK1/MIXER/FXRACK/F	X1/ENABLE		
MIDI MESSAGE	MIDI CH	ANNEL	NOTE/CC INDEX	FEED BACK INDEX			
Note 🔻	1	Y	12	No Feedback		LEARN	
	CONTRO	TYPE		CON	DITION 1	5	STATE 1
	Butto	n				•	- *
BUTTON ACT	ION	DE	CK SWITCH	CON	DITION 2	5	STATE 2
Toggle Value	es 🔹		Left 🔻			•	
BUTTON VALU	JE 1	RESET	ON DECKSWITCH	CON	DITION 3	5	STATE 3
On	•					•	-
BUTTON VALU	JE 2				'OR'-CONDITI	IONS	
Off							

Torq Assignments Editor

MIDI Input

This box displays the name of the current selected assignment, or the name of the assignment your are editing or creating. For example, "Deck1 - FXRACK - FX1 -Enable." If no assignment is selected, it will display "Unassigned"

New Input Button

Clicking this button creates a new unassigned input assignment. In other words this assignment does not have a hardware control mapped to it. The mapping is achieved using the Learn button. See "Learn Button" on page 8

New Output Button

Clicking this button creates a new unassigned output assignment. In other words this assignment is not mapped to a hardware destination. If no assignment is selected, it will display "Unassigned"

Refer to "Creating MIDI Output Assignments" on page 26 for more information.

Duplicate Button

Clicking this button copies the currently selected assignment. To save confusion the duplicate will appear at the bottom of the Assignment List. This useful when you want to create an assignment for another, similar hardware control. You can select an assignment, click the Duplicate button, and then edit the new version using the parameters found in the Assignments Editor.

Delete Button

This button deletes the currently selected assignment.

Path Button

This button is labeled with the destination of the assignment within the Torq Engine. For Input Assignments, the path selects what parameter in Torq you want to control such as buttons, and knobs. For Output Assignments, the path selects which feedback parameter in Torq you want to be sent to your controller such as whether a Play button is lit or not. For example the Input Assignment"/EN-GINE/DECK1/MIXER/FXRACK/ENABLE corresponds to the Enable button for Effects Slot 1, on Deck A.

When editing or creating a new assignment, clicking on this button lets you select a new destination from a list that is displayed in a "Select Destination" screen that appears.



Refer to "Creating MIDI Input Assignments" on page 14 and "Creating MIDI Output Assignments" on page 26 for more information.

MIDI Message

This box displays the MIDI Message type that will be sent to Torq from your hardware controller when it is an input message or to your hardware controller if it is an output message. In this case Note (a MIDI Note value). The Message Type is determined by the individual hardware control (button, knob, slider or MIDI keyboard note) you assign to the Torq control by clicking the Learn button, and then moving or pressing the hardware control (see "Learn Button" on page 8).

You can also click on the message name and choose one of the following message types from the pop-up menu when editing or creating control assignments: "Control Change" (MIDI CC), Note, Note Range, and Pitch Wheel.

Note

When this MIDI Message is selected, a mapped Torq parameter will react to one specific MIDI note number.

Note Range

This MIDI Message causes a mapped Torq parameter to react to a range of notes. Choosing Note Range adds an extra Note Range box to the left of the Learn button in the Assignment Editor. You can enter the range of notes (for example 12) in this box.

The Note Range message type is useful when mapping a range of keys on a keyboard to a Torq function such as a Mixer Channel Volume. In this instance, with a range of 12 notes, the first note sets the Volume fader to full volume while the 12th note sets it to Zero.

Control Change

Selecting the Control Change message causes a mapped Torq control to react to a Control Changes (MIDI CC) sent on a CC #..

Pitch Wheel

This MIDI message causes a mapped Torq control to react to Pitch Wheel messages.

MIDI Channel

The MIDI Channel box displays the MIDI Channel that the message is transmitted on. For this assignment this is set to channel 1. This is determined by the individual hardware control (button, knob, slider or MIDI keyboard note) you assign to the Torq control by clicking the Learn button, and then moving or pressing the hardware control (see "Learn Button" on page 8). You can also click the channel number, and select one of the 16 available MIDI channels or "Any."

Note/CC Index

This displays either the MIDI CC (Control Change) number or MIDI Note number transmitted from your hardware to Torq. For example with "Deck1 - FXRACK - FX1 - Enable" selected in the Assignments List for Deck 1 Input Messages, this value is a MIDI CC.

Because each hardware button transmits a unique MIDI Note number, this note value is based on the hardware button you assign to the Torq control. This assignment is achieved by clicking the Learn button, pressing a button on your hardware (see "Learn Button" on page 8). On the other hand, if you already know the value that you need to use, you can double click on the number and enter a new MIDI CC or note number. When manually entering the MIDI Note number, the range of available MIDI Note numbers is 0 - 127 (Notes C0 to G9)

Index Fine

When editing or creating an assignment for a fader or knob on a hardware controller capable of simultaneously transmitting two MIDI CC numbers, the Fine Index box displays the second MIDI CC number for any LSB message sent to Torq. This configures the hardware control for performing adjustments in finer detail. This box is automatically filled in if you are using qualified control hardware that simultaneously transmits standard MSB and LSB messages.

Feedback Index

When mapping a hardware button to a Torq function, you can enter that same MIDI CC or Note number that appears in the Note/CC Index box so that the button illuminates when pressed. This provides visual confirmation, based on feedback from Torq, that the MIDI message was successfully transmitted to the application.

The feedback index is not used to show the state of the mapped parameter, and will only light up if the button is pressed. For example, if the mapping controls the play button, it will not light up when the play button is engaged in Torq. To do this, another output controller assignment must be created. Please read the MIDI Output Assignments section of the manual on how to configure this functionality.

Learn Button

To assign a hardware control to a Torq function, click the Learn button and then press or move the control on your MIDI device. Once this is done, the hardware control is mapped to the software function. The various values listed in the Assignment Editor will update to reflect those transmitted to Torq whenever the hardware control is used.

Control Type

This box displays the control type used for the current control assignment. The available options are Button, Fader/Knob, Jog/Encoder, Radio Buttons, Keyboard Range, and On/Off Switch. You should choose the appropriate control type for each individual parameter on the hardware controller you're assigning and how you would it to function.

Control Behaviors

Torq offers additional Control Behaviors based on the following control Control Types:

Button Action

This Control Behavior is available when you select Button as the control type. Clicking on the pop-up menu offers you the following choices which define the behavior of a button when it is pressed, and therefore how it is to be used:

Trigger Action

This lets you use a button, MIDI keyboard note, or key on your computer keyboard for functions such as Jump to Track End. In other words, tapping the button once will trigger the mapped function.

Hold-Action

When this option is selected the hardware button performs its assigned function for as long as the it is held down. This setting is typically used when assigning a button to functions like Seek Forward.

Set To Value

This setting configures a button to send a specific value, based on the Button Value 1 setting. You can select the Button Value from the Button Value 1 pop-up menu, located immediately below the Button Action. The available choices are On or Off. This pair of setting is useful when mapping a hardware button to function such as Mode Selection. Values change depending on which parameter in Torq is being controlled. In some cases, this may be a number range, in others, it may be a states such as Play/Pause.

Toggle Values

This setting configures a hardware button to toggle or switch between two values each time it is pressed. These values can be chosen from the Button Value 1 and Button Value 2 pop-up menus located immediately below the Button Action. This combination of setting configures a button to switch a Torq function on an off, for example, an Enable button on an Effects Slot. As mentioned in Set To Value, the actual value may change depending on what parameter is being effected.

Toggle Def./Last

This option configures a button to toggle or switch between a default setting and a value you have set yourself. This can be used for mapping a button to a knob in Torq, such as an Amount knob for an Effects plug-in, toggle between zero and a position you have manually set it to.

Hold Value

When this option is selected, the hardware button sets its assigned function to a specific value, based on the Button Value 1 setting, for as long as the it is held down. You can select the Button Value from the Button Value 1 pop-up menu, located immediately below the Button Action. The available choices are On or Off. As mentioned in Set To Value, the actual value may change depending on what parameter is being effected.

 $\dot{\nabla}$ If you are assigning a hardware button to a Torq fader or knob, such as the Amount knob on an Effects Slot, the Button Value 1 pop-up menu changes to a knob that you can use for setting the Button Value.

Inc. Value (Increment Value)

When mapping a button to a Torq fader or knob, such as the Amount knob for an Effects plug-in, the parameter value of the knob will increment (increase) every time the button is pressed. As mentioned in Set To Value, the actual value may change depending on what parameter is being effected.

Dec. Value (Decrement Value)

When mapping a button to a Torq fader or knob, such as the Amount knob for an Effects plug-in, the parameter value of the knob will decrement (decrease) every time the button is pressed. As mentioned in Set To Value, the actual value may change depending on what parameter is being effected.

You can set the amount that the knob will move each time the button is pressed using the following parameters:

- Resolution This knob lets you set the amount that the control is moved every time the hardware button is pressed. If you set this knob to a value of 4, the values of the software know will change in units of 4 every time the hardware button is pressed.
- Fine Resolution -This knob lets you configure the hardware button to move the control in smaller amounts every time it is pressed when certain conditions are set using the Condition and State settings.

The following example explains how to configure a hardware button to increment the setting of a Torq knob using the using both the Resolution and Fine Resolution settings.

Here is an example of how to configure a Torq knob with both a regular and fine resolution:

1 Load a song onto Deck A.

2 Load the Strobe plug-in into Effects Slot 2 on Deck A, switch it on, and set the Rate to 1/16. Leave the Amount knob set to 0.00%.

3 Open the Controller Assignments Page, and click the Input and Deck 1 Filter Buttons. These should be the only active buttons (white in color).

- 4 Choose a "Deck1 FXRack FX2 Mix" in the Assignments List.
- **5** Choose "Button" in the Control Type pop-up menu.
- 6 Click the Learn button on the right side of the Assignments Editor.

7 Press a button on your hardware controller. The button is now mapped to the Amount knob for Effects Slot 2 on Deck A.

- **8** Choose "Inc. Value" from the Button Action pop-up menu.
- **9** Set the Resolution knob to about 4.
- **10** Set the Fine Resolution knob to about 2.

11 Click the Auto Repeat button. It will turn white. When this button active, the value set by the Amount knob in Torq will continue to increase if you hold down the button on your hardware.

- **12** Choose "Shift" from the Condition 1 pop-up menu.
- **13** Choose "Pressed" from the State 1 pop-up menu.
- **14** Choose "Alt" from the Condition 2 pop-up menu.
- **15** Choose "Pressed" from the State 2 pop-up menu.
- **16** Click the click the "OR Conditions" button.
- 17 Close the Controller Assignments Page, and the Torq Preferences.
- **18** Press F5 on your computer keyboard, and Press play on you hardware.

If you hold down the Shift button on your hardware and press the mapped button two or three times you'll see the value of the Amount knob increase in increments of about 4% each time. Holding down the Alt key on your keyboard and pressing the button will raise the value in increments of about 2%.

Now hold down the Shift button on your controller and then hold down the mapped button. The value of the Amount knob continues to increase until you release the button.

If you want to, you can reset the edited controller assignment to the factory default by clicking the Reset button on the upper right side of the Controller Assignments page.

Reset Value

This setting configure a mapped button to reset the value of a Torq control (such as an Amount or EQ knob) to its default setting after it has been adjusted.

Auto-Repeat Button

When this button is active, holding down a mapped button causes the value of the assigned parameter to continue changing until the button is released.

Knob Behavior

Soft Takeover Button

This option is only available for the Fader/Knob and Jog/Encoder control types. When this button is active (white in color) the hardware control will do a slow or soft takeover of its corresponding Torq control. This type of "Control Behavior" prevents unwanted value (and sound changes), when there is a difference between the position of an assigned hardware fader or knob, and its counterpart in Torq.

Jog/Encoder Behavior (Jog Types)

When assigning a Jog Wheel or Encoder to a Torq function, there are four different Jog Types to choose from. Types A through C are used with third party MIDI DJ controllers. You will need to try out each of these to see which one works best. Type D is reserved for when you are controlling a Deck with a controller that has MIDI scratch platters or large jog wheels, although other jog types may work depending on the make of your controller

 $\dot{\nabla}$ Torq will most often select the correct Jog type when the learn action is performed. After the controller assignment is configured, test it out and then switch the encoder type only if it does not work properly.

Additional Jog/Encoder Parameters.

Jog Sensitivity (JOG SENSIV.)

This parameter is available for Jog Types A though D, and sets the scratch or nudge sensitivity of the scratch wheel. Jog Sensitivity is not available for Jog Type D if the Jog Interaction parameter is set to "Set Deck Speed."

Jog Acceleration (JOG ACCELER.)

This parameter is also available for Jog Types A through D. Turning this knob to the right results quicker reactions to fast scratch movements by Torq. When the Jog Acceleration knob is set to zero, Torq's the reaction time is governed by the Jog Sensitivity value. Jog Acceleration is not available for Jog Type D if the Jog Interaction parameter is set to "Set Deck Speed."

When configuring a scratch wheel, it is recommended to set the Jog Acceleration to 0.

Reset After Jog Use

This button is available for Jog Types A though C. When this button is activated it turn white, and the value of the mapped parameter will revert to its value prior to being adjusted by a jog wheel or encoder. This can be useful when controlling effect parameters. Reset After Jog Use is not available for Jog Type D if the Jog Interaction parameter is set to "Set Deck Speed."

Jog/Encoder Parameters for Jog Type D

Jog Interaction

This parameter offer the following settings:

- Standard This setting is for scratching/nudging/setting a parameter with a motor driven MIDI platter that has its motor off, so that it behaves like the non motor-driven scratch wheels on Torq Xponent.
- Set Deck Speed -This setting should be chosen when a motor driven platter is being used in MIDI Platter Control mode.

Deck Switch

These settings determine which side of your two-deck MIDI will transmit the MIDI messages, and are useful when controlling all four Torq Decks with two-deck hardware. For more information on deckswitch, consult the Torq 2.0 Manual.

Off

When this option is selected, a control assignment only works on the Torq Deck it was mapped to. In other words, if you to map a control to a function on Deck A, it will only work on that Deck.

Left

When this option is selected, the control's assignment is not targeting a fixed deck, but changing its target deck according to the current state of the DeckSwitchLeft parameter.

Right

When this option is selected, the control's assignment is not targeting a fixed deck, but changing its target deck according to the current state of the DeckSwitchRight parameter.

Reset on Deck Switch Button

When this button is activated (white in color), switching decks results in the current mapped parameter values being copied to the new target Deck. As this happens the corresponding parameter on the previous target Deck will be reset to their defaults.

This function is especially important when using two motor driven platters to control Torq in Four-Deck mode. For example, if you switch your left MIDI platter to a new Torq Deck, the previously targeted Deck will no longer be in MIDI Platter Control mode. If Reset on Deck Switch is not active, the first deck would stop playing because is would no longer be receiving messages from the control vinyl or CD, because they are now being sent to the new target deck.

Invert Button

This button is available when the Control Type is set to Fader/Knob, Radio Buttons, or Keyboard Range. Activating this button reverses the behavior or operation of a control. For example, the typical behavior of a knob dictates that turning it to the right, increases the value. If you activate the Invert Button, turning a mapped knob to the right will decrease the value.

Min/Max Value

The Minimum Value and Maximum Value knobs are available when the Control Type is set to Fader/Knob, or Button, with the Button Action set to either "Inc Value" or "Dec Value." These knobs let you limit the range of knobs and faders within Torq. In this instance the Torq control will never go beyond the minimum and maximum values regardless of how far you move the hardware control.

This feature is also useful if you have one hardware button configured to increment a parameter value, and another to decrement it. The increment button will never be able to increase the parameter value above the maximum value, and the decrement knob will never be able to lower the setting below the minimum value.

Auto-Repeat Button

The Auto-Repeat button is available whenever "Inc. Value" or "Dec. Value" is selected as the Key Interaction. When this button is active, holding down a mapped key causes the value of the assigned parameter to continue changing until the button is released.

Conditions

These settings define conditions under which a mapped hardware control will work. For example you can configure a control such that it will only work if the Shift button on your hard ware controller or computer keyboard is being held down. This is done by choosing "Shift" in the Condition 1 pop-up menu and "Pressed" in the "State 1" pop-up menu.

Please read Chapter 7: Control States for more information on how to configure conditions and states.

▲ The Windows Ctrl key corresponds to the Mac Command key. If you are using a Mac and you choose "Control" from the Condition pop-menus (1, 2, or 3), you should use the Command key as the Modifier key instead of the Control key when using the control assignment in your mixes.

'OR' -Conditions Buttons

This button is used when you have more than one Condition set for a control assignment. When this button is active, only one of the Conditions has to be true for the assignment to work. However, if this button is inactive all Conditions have to be in effect. More information on 'OR' – Conditions can also be found in Chapter 7: Control States

Chapter 4: MIDI Input Assignments

Creating MIDI Input Assignments

This section provides instructions on how to create a new controller assignment. The following example explains one of the way you can assign a hardware button to the Triplet Mode button in the Torq Toolbar.

To assign a hardware button to the Triplet Mode button in the Torq Toolbar:

- **1** Select your control device from the Device menu.
- 2 Click the Input Filter button. 3 Click the Global Filter button.

Only the Input and Global buttons should be active. The Deck and Output Filter buttons should be greyed out.

3 Click the New Input button in the Assignment Editor. The Assignment Editor will populate with several parameters for the currently un-mapped (unassigned) Input assignment.

- 4 Click the path button. This opens the Select Destination screen.
- **5** Click on the triangle next to "ENGINE." This expands the Torq Engine category.
- 6 Click the triangle next to "MASTER." This expands the Master category.
- **7** Click on "SYNC/MASTER TEMPO." This expands the Sync/Master Tempo category.
- **8** Click on "TripletMode," and then click the Apply button at the bottom of the Select Destination screen.

"Master - TripletMode" will be added to the Assignments List, and highlighted in white. The MIDI Input field in the Assignments Editor will also contain the same name, and the Path Button will display "/EN-GINE/MAS-TER/TRIPLETMODE."

9 Click the Learn button and press a button on your hardware controller. This maps the hardware button to the Triplet button.

- **10** Choose "Toggle Values" in the Button Action pop-up menu.
- **11** Choose "Shift" from the Condition 1 pop-up menu.
- **12** Choose "Pressed" in the State 1 pop-up menu.
- **13** Close the Controller Assignments Page and Torq Preferences.

Hold down Shift on your hardware or computer keyboard, and press the newly assigned hardware button. The Triple Mode button will turn white, signifying that Torq is in Triplet Mode. Holding Shift and pressing the button again, switches off Triplet Mode.

 $\dot{\nabla}$ *If you do not want to keep this control assignment you can reopen the Controller Assignments Page, and click the Reset button at the top of the page, or the Delete button in the Assignments Editor.*

Chapter 5: Keyboard Input Assignments

Key Assignment Parameters

When Keyboard is selected in the Device list, a list of assigned keys as displayed in the window. Clicking on each key displays the mapping assignment in Assignment Editor, which is located in the lower half of the Controller Assignments Page. Clicking a combination of Filter buttons, such as Input and Deck1 allows you to narrow down which assignments are shown. The information displayed in the Assignments Editor varies based on the item you have selected or created. This section explains the available parameters and available options.

You can also click different combinations of Filter buttons, and select various assignments in the Assignments List to see the different options used for mapping various Torq functions. Any accidental changes or deletions can be restored by clicking the Reset button.

DEVICE	Keyboard	MPORT .	EXPORT	ARGET C	1111
FILTER	INPUT	GLOBAL DECK 1 DE	CK2	DECK 3 DEC	X 4
ENGINE					
Deck1 - Unload					
Deck1 - SetQuickCu	e1				
Deckt - JumpToQuis	kCue1				
Deck1 - SetQuickCu	12				
Deckt - JumpToQui	kCue2				
Deck1 - SetQuickCu	13				
Deck1 - JumpToQui	kGw3				
KEYINPUT	Deckt - Unkad	NEW INPL	UUP1	KATE INLE	IE.
PATH	/ENG	INE/DECKI/DECK/INEOAD			
KEY	Key: F1	LEA	N X2.Y	LEARN KEY CO	
KEY INTERACTIO		CONDITION 1		STATE 1	
Trigger Action	7 	Shift	•	Pressed	۳
DECK SWITCH		CONDITION 2		STATE 2	
Off	*		•		۳
		CONDITION 3		STATE 3	
			•		٠
		00.000	TONS	_	

Torq Controller Assignments Page _ Keyboard Input

Key Input

This field displays the name of the control assignment as reflected in the Assignments List, as well as the name of any new assignment while you are creating it.

New Input Button

Clicking this button creates a new unassigned input assignment. In other words this assignment does not have a hardware control mapped to it. The mapping is achieved using the Learn Key or Learn Key Code button.

Duplicate Button

Clicking this button copies the currently selected assignment. To save confusion the duplicate will appear at the bottom of the Assignment List. This useful when you want to create an assignment for another key. You can select an assignment, click the Duplicate button, and then edit the new version using the parameters in the Assignments Editor.

Delete Button

This button deletes the currently selected assignment.

Path Button

This button is labeled with the destination of the assignment within the Torq Engine. For example "Deck1 - Unload".

When editing or creating a new assignment, clicking on this button lets you select a new destination from a list that is displayed in a "Select Destination" screen that appears (see "Creating Keyboard Input Assignments" on page 20).

Key

This filed displays the name of the currently assigned key.

Learn Key Button

To assign a key to a Torq function, click the Learn Key button and then press a key on your keyboard. Once this is done, the key is mapped to the software function. The various values listed in the Assignments Editor will update to reflect those transmitted to Torq after the key is pressed.

Learn Key Code Button

When you Press this button followed by a key, Torq will scan the keyboard for the key code, for example 2 for which corresponds to the number "1" key above the letter "Q" on a US Mac keyboard. The Key field will update and display the key code, for example "Scan Code: 2." Learning the key code useful if want to assign a key combination such as "Shift+1", and you are likely to use different keyboards, including those formatted for other regions of the world. This means that regardless of the keyboard layout the assignment will always work because Torq will always look for "Scan Code: 2" combined with the Condition setting of "Shift", and the State setting of "Pressed."

Refer to "Conditions" on page 19 for more information.

Key Interactions

Clicking the pop-up menu offers you the following choices which define the behavior of an assigned key when it is pressed, and therefore how it is to be used:

Trigger Action

This lets you use a key for functions such as Jump to Track End. In other words, tapping the key once will trigger the mapped function.

Hold-Action

When this option is selected the key performs its assigned function for as long as it is held down. This setting is typically used when assigning a key to functions like Seek Forward.

Set To Value

This setting configures a key to send a specific value, based on the Button Value 1 setting. You can select the Button Value from the Key Value 1 pop-up menu, located immediately below the Key Interaction. The available choices are On or Off. This pair of settings is useful when mapping a key to functions such as mode selection. Values change depending on which parameter in Torq is being controlled. In some cases, this may be a number range, in others, it may be a states such as Play/Pause.

Toggle Values

This setting configures a key to toggle or switch between two values each time it is pressed. These values can be chosen from the Key Value 1 and Key Value 2 pop-up menus located immediately below the Key Interaction. This combination of setting configures a key to switch a Torq function on an off. For example the Enable button on an Effects Slot. As mentioned in Set To Value, the actual value may change depending on what parameter is being effected.

Toggle Def./Last

This option configures a key to toggle or switch between a default setting and a value you have set yourself. This can be used for mapping a button to a knob in Torq, such as the Amount knob for an Effects plug-in, so that it switches between zero and a position you have manually set it to.

Hold Value

When this option is selected, the key sets its assigned function to a specific value, based on the Key Value 1 setting, for as long as the it is held down. You can select the Key Value from the Key Value 1 pop-up menu, located immediately below the Key Interaction. The available choices are On or Off.

Inc. Value (Increment Value)

When mapping a key to a Torq fader or knob, the parameter value of will increment (increase) every time the key is pressed.

Dec. Value (Decrement Value)

When mapping a key to a Torq fader or knob, the parameter value will decrement (decrease) every time the button is pressed.

You can set the amount that the knob will move each time the button is pressed using the following parameters:

Reset Value

This setting configure a mapped button to reset the value of a Torq control (such as an Amount or EQ knob) to its default setting after it has been adjusted.

Key Value Knob

This knob is available when a key is assigned to a Torq fader or knob and the Key Interaction is set to "Set Value," or "Hold Value." Whenever you press the mapped key the control will immediately jump to the value specified by the Key Value Knob.

When "Toggle values" is chosen in the Key Interaction pop-up menu, offers you a Key Value 1 and Key value 2 knob. Pressing a mapped key causes control will jump between the values specified by these knobs.

Deck Switch

These settings determine which side of your two-deck MIDI controller will transmit the MIDI messages. These setting are useful when controlling all four Torq Decks with two-deck hardware.

Off

When this option is selected, a key assignment only works on the Torq Deck it was mapped to. In other words, if you to map a control to a function on Deck A, it will only work on that Deck.

Left

When this option is selected, the key assignment is applied to the left side of your controller, and it will work on any Deck targeted by that side of the hardware. Selecting this option is recommended when using Torq in Four-Deck Mode.

Right

When this option is selected, the key assignment is applied to the right side of your controller, and it will work on any Deck targeted by that side of the hardware. Selecting this option is recommended when using Torq in Four-Deck Mode.

Resolution Knob

When assigning a key to a knob or fader in Torq, this knob lets you set the amount the control is moved every time the Key is pressed. If you set the Resolution parameter to a value of 4, the value of the software knob will change in units of 4 every time the key is pressed.

Fine Resolution Knob

When assigning a key to a knob or fader in Torq, this knob lets you configure the key to move the control in smaller amounts every time it is pressed.

Invert Button

This button is available when the Control Type is set to Fader/Knob, Radio Buttons, or Keyboard Range. Activating this button reverses the behavior or operation of a control. For example, the typical behavior of a knob dictates that turning it to the right, increases the value. If you activate the Invert Button, turning a mapped knob to the right will decrease the value.

Min/Max Value

The Minimum Value and Maximum Value knobs are available when the Key Interaction is set to either "Inc Value" or "Dec Value." These knobs let you limit the range of knobs and faders within Torq when a key is mapped to increase or decrease the parameter value.

This feature is also useful if you have one key configured to increment a parameter value, and another to decrement it. The increment key will not increase the parameter value above the maximum value, and the decrement key will not lower the setting below the minimum value.

Conditions

These settings define conditions under which a mapped key will work. For example you can configure a key such that it will only work if the Shift key is held down. This is done by choosing "Shift" in the Condition 1 pop-up menu and "Pressed" in the "State 1" pop-up menu.

Setting conditions has the advantage of letting you assign a key to more than one Torq function or parameter. You can also configure a key to have more than one mode of operation, such as coarse or fine adjustment of a Torq parameter. Up to three Conditions can be set, offering maximum flexibility.

Please read Chapter 7, "Control States" for more information on how to configure conditions and states.

'OR' -Conditions Buttons

This button is used when you have more than one Condition set for a key assignment. When this button is active, only one of the Conditions has to be true for the assignment to work. However, if this button is inactive all Conditions have to be in effect. More information on 'OR' – Conditions can also be found in Chapter 7: Control States

Creating Keyboard Input Assignments

This section provides instructions on how to create a keyboard input assignment. This example explains one way to assign the "T" key on your computer button to the Triplet Mode button in the Torq Toolbar.

To assign a key to the Triplet Mode button in the Torq Toolbar:

- **1** Select your control device from the Device menu.
- **2** Click the Input Filter button.
- **3** Click the Global Filter button.

Only the Input and Global buttons should be active. The Deck and Output Filter buttons should be greyed out.

4 Click the New Input button in the Assignment Editor. The Assignment Editor will populate with several parameters for the currently un-mapped (unassigned) Input assignment.

5 Click the path button. This opens the Select Destination screen. 6 Click on the triangle next to "ENGINE." This expands the Torq Engine category. 7 Click the triangle next to "MASTER." This expands the Master category.

6 Click on "SYNC/MASTER TEMPO." This expands the Sync/Master Tempo category.

7 Click on "TripletMode," and then click the Apply button at the bottom of the Select Destination screen.

"Master - TripletMode" will be added to the Assignments List, and highlighted in white. The MIDI Input field in the Assignments Editor will also contain the same name, and the Path Button will display "/EN-GINE/MAS-TER/TRIPLETMODE."

8 Click either the Learn Key or Learn Key Code button and press the "T" key on your keyboard. This maps the key button to the Triplet button.

- **9** Choose "Toggle Values" in the Key Interaction pop-up menu.
- **10** Choose "Shift" from the Condition 1 pop-up menu.
- 11 Choose "Pressed" in the State 1 pop-up menu.
- 12 Close the Controller Assignments Page and Torq Preferences

Hold down Shift on your keyboard, and press the "T" key. The Triple Mode button will turn white, signifying that Torq is in Triplet Mode. Holding Shift and pressing the key again, switches off Triplet Mode.

Y If you do not want to keep this key assignment you can reopen the Controller Assignments Page, and click the Reset button at the top of the page, or the Delete button in the Assignments Editor.

Chapter 6: MIDI Output Assignments

The MIDI Output Assignments let you configure Torq to send information regarding the state of its functions and parameters to various display elements on your hardware such as the Level Meters of flashing LED's and buttons.

MIDI Output Parameters

Clicking the Output button followed by any of the five Filter buttons on the right side of the Controller Assignments Page (Global or Decks 1 through 4) lets you view the current assignments in the Assignments list. When you click on an assignment, such as "Deck 1 - OnBeat," the Assignments Editor will display the various parameters and their settings. The information displayed in the Assignments Editor varies based on the assignments you have selected or created. This section explains the available parameters and their options. Please refer to your device's MIDI specification or appendix for more information on the proper MIDI feedback to send to it.

DEVICE		US8 I	Xponent			IPORT	BXPORT	ARSET C	ANR.
FILTER		PUT (DUTPUT	GLOBAL	DECK	1 08	CK 2 0	ECK 3 DEC	×4
ENGINE Deck1 - Sc	ngPosition								1
Deckt - Or	nBeat								
Deck1 - Se	ekForward								
Deck1 - St	extrackEnd								
Deckt - St	ektackward witrackStart								
Deckt - N	idini Rarkwar	àit -							
MIDI OUTPI		Deckt - G	OnBeat	NEW INI	NUT NO	W DUTPU	DUPLS	CATE LIVER	E.
PA	н		1296	NE/DECK1/DEC	CINEEAT				
MIDIMES	SAGE M	DI CHANNEL	NOTE/CC INDEX	MIN, VALU	e N	MAX. VALL	IE.		
Control Ch	ange -	4 *	117					Sebct	
	300				CONDITIO	N 1		STATE 1	
Flash (m action								
DECK	SWITCH				CONDITIO	N2		STATE 2	
	eft								
FLASH	LENGTH G	3			CONDITIO	N 3.		STATE 3	
							•		
						OH COND	TIONS		

Torq Controller Assignments Page - MIDI Output

MIDI Output

This field displays the name of the selected assignment or an assignment that your are editing or creating.

New Output Button

Clicking this button creates a new unassigned output assignment. In other words this assignment is not mapped to a hardware destination.



See "Creating MIDI Output Assignments" on page 26 for more information.

Duplicate Button

Clicking this button copies the currently selected assignment. To save confusion the duplicate will appear at the bottom of the Assignment List. This useful when you want to create an assignment for another, similar hardware control. You can select a control, click the Duplicate button, and then edit the new version using the parameters found in the Assignments Editor.

Delete Button

This button deletes the currently selected assignment.

Path Button

For output Assignments, the Path Button selects which parameter in Torq will be displayed via MIDI on through the selected MIDI path. For example, ENGINE/DECK2/DECK/PLAY will send a note on to indicate that the play state on deck 2 is active.

When editing or creating a new assignment, clicking on this button lets you select a new destination from a list that is displayed in a "Select Destination" screen that appears ("Creating MIDI Output Assignments" on page 25).

MIDI Message

This field displays the MIDI Message type that will be sent to your hardware controller from Torq. In this case Note (a MIDI Note value). You can also click on the message name and choose one of the following message types from the pop-up menu, when editing or creating control assignments: In addition to "Control Change" (MIDI CC), the choices are Note, Note Range, and Pitch Wheel.

Note On

When this MIDI Message is selected, Torq will send Note On message to your hardware controller with an available MIDI not range of 0 to 127.

Note On/Off

This setting is generally used for sending feedback to a button which has been configured to switch a function on and off, such as a PFL button. The Note On portion of the message is sent from Torq as the function is switched on, and the Note Off portion when it is switched off. You can see and example of how this is set up in Torq by clicking the Output button, clicking Deck one and selecting "Deck1 - PFL." The Assignment editor will show you how the PFL button for Deck A is configured.

Note Range

This MIDI Message causes a mapped hardware display to react to a range of notes sent from Torq. Choosing Note Range adds an extra Note Range field to the left of the Learn button in the Assignment Editor. You can enter the range of notes (for example 12) in this field.

The Note Range message type is useful when your want to send signals to a display element with multiple LED's, such as a volume level meter. In this case, each LED is triggered by its own Note On message.

Control Change

Selecting the Control Change message causes a mapped hardware display to react to a Control Change (MIDI CC) type message. This message type is also useful for sending signals to a display with multiple LED's such as a volume meter.

Pitch Wheel

This MIDI message causes a mapped Torq control to react to Pitch Wheel messages.

The following message types are proprietary Torq messages which transmit alpha-numeric, or numeric characters to qualified MIDI control devices, capable of displaying letters or numbers.

Text

With this option selected, Torq will send a proprietary message type to MIDI control devices, capable of displaying letters or numbers. This is useful for transmitting the current song name or parameter values to an alpha-numeric text display on your hardware.

Number

This option causes Torq to send a proprietary message type to MIDI control devices, capable of displaying numbers. This is useful for transmitting the current song position in minutes and seconds or parameter values to a numeric display on your hardware. This option is not available for Torq functions that do not contain or transmit alpha-numeric values.

MIDI Channel

The MIDI Channel box displays the MIDI Channel that a message is transmitted on. Clicking the channel number, lets you select one of the 16 available MIDI channels.

Note/CC Index

This field is used for entering the MIDI Note number or MIDI CC number that your hardware will react to. This field is generally populated with the correct value whenever you create a new assignment. See "Creating MIDI Output Assignments" on page 26

Min/Max Value

These fields are available when either Note On or Change Control (MIDI CC) are selected as the MIDI Message type, and let you specify the lowest and highest MIDI Note or MIDI CC number. For example, if the level meter on your hardware controller has 12 LED's, and is to set to react to Change Control messages, you can set the minimum CC number to 63 and the maximum to 74. This way the minimum volume (0.0) is mapped to CC 64, and each of the following eleven values are mapped to each of the following MIDI CC numbers, up to the maximum volume level, which will be mapped to CC 74.

Note Range

This field is available when Note Range is selected as the MIDI Message type, and specifies the number of subsequent notes used in the note range. In other words if the MIDI Note in the Note/CC Index field is 20 and the value in the Note Range field is 12, the range of notes used in the message will be from note 20 to note 32.

Select Button

This button performs a similar function to the Learn button discussed in "Learn Button" on page 7, and in "Creating MIDI Input Assignments" on page 13. However, clicking this button reveals a pop-up menu, which lets you select the destination (button LED or meter) for the MIDI message sent from Torq to qualified MIDI control devices. This function is unavailable for controllers that have not been qualified to work with Torq.

Mode

The options in the Mode pop-up menu determine the behavior of a hardware display element, such as a meter, or backlit button.

Show Value

This option causes Torq to transmit the current value or "state" of an on-screen control (button or fader or knob). This could be used with hardware level meters, or to show the On/Off or Hold-Action State (also On/Off) for Torq buttons.

Flash on Action

This option is useful for setting up a hardware button to flash whenever it is pressed to control the Torq function it is mapped to.

Flash on Increment

If you have a button mapped to increment a parameter value you can choose this option so that the button flashes each time it increments.

Flash on Decrement

When you have a button mapped to increment a parameter value you can choose this option so that the button flashes each time it is decrements.

Flash on Reset

If you have a button mapped to reset a parameter value to its default, you can choose this option so that the button flashes whenever it is resets.

Flash Length

When a display element on your hardware, such as an LED or backlit button is set to one of the Flash options, you can use this knob to set the length of time the element it will remain illuminated with each pulse.

Invert Button

This button is available for all of the MIDI Message types aside from Text or Number, and when active, this button causes the display element to react in the opposite manner. For example, if you have a hardware button mapped to the Enable button for an Effects Slot, so that the button on your controller lights up whenever you enable the effect, the Invert button will reverse this behavior.

Synced Flashing

This button is available when the Mode parameter is set to Show Value. When this button is active (white in color) a flashing LED or button will do so in time with the current song tempo. Clicking this button causes the LED or button to flash at a slower rate. This can be useful for setting up a display element on your hardware to provide you with a reminder or warning based on the song position.

Deck Switch

The Deck Switch output functionality functions much in the same way that the input functionality. Deck Switch overrides the default deck assignment and allows for any output feedback to follow the focus of the Assigned deck for both Deck Switch Left and Deck Switch Right.

Off

When this option is selected, a control assignment only works on the Torq Deck it was mapped to. In other words, if you to map a control to a function on Deck A, it will only work on that Deck.

Left

When this option is selected, the control assignment feedback is sent from the deck that the Deck Switch Left focus is applied to.

Right

When this option is selected, the control assignment feedback is sent from the deck that the Deck Switch Right focus is applied to.

Conditions

These settings define conditions under which a mapped hardware control will work. For example you can configure a control such that it will only work if the Shift button on your hard ware controller or computer keyboard is being held down. This is done by choosing "Shift" in the Condition 1 pop-up menu and "Pressed" in the "State 1" pop-up menu.

Setting conditions has the advantage of letting you assign a single hardware control to more than one Torq function or parameter. You can also configure a control to have more than one mode of operation, such as coarse or fine adjustment or a Torg parameter. Up to three Conditions can be set for a hardware control, offering maximum flexibility.



The Windows Ctrl key corresponds to the Mac Command key. If you are using a Mac and you choose "Control" from the Condition pop-menus (1, 2, or 3), you should use the Command key as the Modifier key instead of the Control key when using the control assignment in your mixes.

Please read Chapter 7, "Control States" for more information on how to configure conditions and states.

'OR' -Conditions Buttons

This button is used when you have more than one Condition set for a control assignment. When this button is active, only one of the Conditions has to be true for the assignment to work. However, if this button is inactive all Conditions have to be in effect. More information on 'OR' - Conditions can also be found in Chapter 7: Control States

Creating MIDI Output Assignments

This section provides an example of how to create a new Output assignment to a backlit button on your hardware, so that it flash in time with the Master Tempo in Torq.

To create a MIDI Output assignment to a button:

- **1** Select your control device from the Device menu.
- 2 Click the Output Filter button.
- **3** Click the Global Filter button.

Only the Output and Global buttons should be active. The Deck and Input Filter buttons should be greyed out.

4 Click the New Output button in the Assignment Editor. The Assignment Editor will populate with several parameters for the currently un-mapped (unassigned) Output assignment.

- **5** Click the path button. This opens the Select Destination screen.
- 6 Click on the triangle next to "ENGINE." This expands the Torq Engine category.
- 7 Click the triangle next to "MASTER." This expands the Master category.
- 8 Click on "SYNC/MASTER TEMPO." This expands the Sync/Master Tempo category.
- 9 Click on "MasterTempo," and then click the Apply button at the bottom of the Select Destination screen.

"Master - MasterTempo" will be added to the Assignments List, and highlighted in white. The MIDI Input field in the Assignments Editor will also contain the same name, and the Path Button will display "/ENGINE/MAS-TER/MASTERTEMPO."

10 Click the Select button. A pop-up menu will appear.

11 Scroll down the menu if needed, and choose the display element you wish to use.

12 Close the Controller Assignments Page and Torq Preferences.

The display element you've chosen now flashes in time with the Master Tempo in Torq, whenever a song is playing.

Y If you do not want to keep this assignment you can reopen the Controller Assignments Page, and click the Reset button at the top of the page, or the Delete button in the Assignments Editor.

Chapter 7: Control States

Control states are a way to get additional functionality out of an otherwise already mapped assignment. Just as holding down Ctrl and then pressing C in many programs will engage the copy command instead of trigger the letter C, control states can be used much in the same way to modify a key, button or knob function.

Control states can be engaged by ether using one of the preconfigured modifier keys (Shift, Alt, Control, or Capslock) or by mapping other keys or MIDI messages to one of the previously mentioned keys.



The Windows Ctrl key corresponds to the Mac Command key. If you are using a Mac and you choose "Control" from the Condition pop-menus (1, 2, or 3), you should use the Command key as the Modifier key instead of the Control key when using the control assignment in your mixes.

Configuring Control States within Controller Assignments

The control state section exists in the bottom right hand corner of the controller assignment window. Configure a control state for a previously created assignment by by selecting a Shift, Alt, Control or Capslock in one or more of the condition pull down menus in the bottom right section of a controller assignment, and assigning either a Released or Pressed state to it.

In the two examples below, the Deck 1 – Cue Action assignment is configured to work only when Shift is Released and the Deck1 – SetCuePoint is configured to run only when Shift is pressed.

FILTER	INPUT	OUTPUT		GLOBAL	DECK 1	DECK 2	DECK 3	DECK 4
ENGINE								
Deck1 - CueActi	on							
Deck1 - SetCuel	Point							
MIDI INPUT	Deck	1 - CueAction		NEW INPUT	NEW OU	ITPUT DU	PLICATE	DELETE
PATH		1	ENGIN	E/DECK1/DECK/CU	EACTION			
MIDI MESSAGE	MIDI CHANN	EL NOTE/CC INC	DEX	FEEDBACK INDE	X			
Note	16	• 42		No Feedback		LE/	ARN	
	CONTROL TYP	Έ		C	DNDITION 1		STA	TE 1
	Button				Shift	•	Relea	ised 📑
BUTTON ACT	TION	DECK SWITCH		C	DNDITION 2		STA	TE 2
Hold-Actio	n 🔻 📃	Off	•			•		
				C	DNDITION 3		STA	TE 3
						•		
					'OR'-	CONDITIONS		

FILTER	INPUT		OUTPUT		GLOBAL	DECK 1	DECK 2	DECK 3	DECK 4
ENGINE									
Deck1 - CueAc	tion								
Deck1 - SetCue	ePoint								
MIDI INPUT	D	eck1 - Se	tCuePoint	N	EW INPUT	NEW OU	TPUT DI	JPLICATE	DELETE
PATH			/ENG	GINE/DECK1/	DECK/SET	CUEPOINT			
MIDI MESSAGE	MIDI CH/	ANNEL	NOTE/CC INDEX	X FEEDB	ACK INDE	x			
Note	▼ 16	•	42	No F	eedback		LE	ARN	
	CONTROL TYPE				C	DNDITION 1		ST/	ATE 1
	Buttor	1	•		Shift			Pres	ssed 💦
BUTTON AC	ACTION DECK SWITCH		CK SWITCH		CONDITION 2		ST/	ATE 2	
Trigger Act	ion		Off				-	-	
					C	DNDITION 3		ST/	ATE 3
									-
					'OR'-CONDITIONS				

When configuring two assignments that both depend on a control state, it is important to configure one with the state pressed and another with the state released, just like in the example above. If two assignments are created, but only one is configured to work with, for example, Shift pressed, the other assignment will trigger regardless if shift is engaged or not.

Multiple Conditions and Control States

It is possible to configure assignments to depend on up to 3 conditions. For example, the example below shows a controller assignment that will only be triggered only when Shift is pressed and Alt is released.

CONDITION 1	STATE 1							
Shift	Pressed	•						
CONDITION 2	STATE 2							
Alt	Released	•						
CONDITION 3	STATE 3							
'OR'-CONDITIONS	'OR'-CONDITIONS							

Additionally, the" 'Or'-Conditions" button can be used to allow a controller assignment to be modified by several separate conditions. The below example shows a controller assignment that can be triggered when the Shift or the Alt key is held down.

CONDITION 1	STATE 1
Shift	Pressed *
CONDITION 2	STATE 2
Alt	Pressed *
CONDITION 3	STATE 3
🔻	*
'OR'-CONDITIONS	

User States

User States are additional variables used to modify the behavior of controller inputs or outputs. Much as the Shift, Alt, Ctrl, and CapsLock conditions can be used to modify a controller assignment, User States can be used in the same way. The main difference between user states and modifier keys is that while the modifier keys are typically used to temporarily engage an alternate a function behavior, User States are better suited for switching between 2 or more separate mappings of equal importance.

There are 3 different types of User States

- **1** 4 with 2 states (State A and B)
- **2** 1 with 3 states (State A, B and C)
- **3** 1 with 4 states (State A,B,C,D).

The 3 and 4 state options are available for when 3 or 4 separate controller assignments are wanted from a single key or MIDI control.

Creating a multi function mapping using Control States

Creating a knob/button or key with multiple functions is a two step process. First, multiple input assignments with the same Key/MIDI message, but different path assignments must be created.

For example, the space bar can be mapped to the Play button for all 4 decks using 4 separate controller assignments.

DEVICE Keyboard IMPORT EXPORT RESET CL FILTER INPUT GLOBAL DECK 1 DECK 2 DECK 3 DEC ENGINE Deck1 - Play Deck4 - Play Deck3 - Play Deck4 - Play Deck4 - Play Deck4 - Play Deck4 - Play NEW INPUT DUPLICATE DELET PATH /ENGINE/DECK4/DECK4/DECK/PLAY LEARN KEY LEARN KEY CONDITION 1 KEY INTERACTION CONDITION 1 State 1 DECK SWITCH Off	ontrolle	er Assig	nments			
FILTER INPUT GLOBAL DECK 1 DECK 2 DECK 3 DECK 3 ENGINE Deck4 - Play Deck2 - Play Deck2 - Play Deck3 - Play Deck4 - Play Deck4 - Play NEW INPUT DUPLICATE DELET PATH /ENGINE/DECK4/DECK4/DECK4/DECK/PLAY KEY KEY Key Space LEARN KEY LEARN KEY COD KEY INTERACTION VOR*CONDITION 1 STATE 1 State A State A Off Off OR*-CONDITION 3 State C	DEVICE		Keyboard	IMI	PORT EXPOR	RT RESET CLEAR
ENGINE Deck1 - Play Deck2 - Play Deck3 - Play Deck4 - Play KEY INPUT PATH /ENGINE/DECK4.DECK/PLAY KEY KEY KEY KEY KEY KEY KEY KE	FILTER		INPUT	GLOBAL DECK	DECK 2	DECK 3 DECK 4
Deck1 - Play Deck2 - Play Deck3 - Play Deck4 - Play NEW INPUT Deck4 - Play REY INPUT Deck4 - Play NEW INPUT Deck4 - Play REY NEW INPUT Deck4 - Play KEY KEY	ENGINE					
Deck2 - Play Deck3 - Play Deck4 - Play NEW INPUT Deck4 - Play PATH /ENGINE/DECK4/DECK/PLAY KEY Key: Space LEARN KEY LEARN KEY KEY INTERACTION CONDITION 1 Thild-Action State A Off	Deckt - Play					
Deck3 - Play Deck4 - Play KEY INPUT Deck4 - Play PATH /Engine/Deck4/DEck/PLAY KEY Key: Space KEY INTERACTION CONDITION 1 Hold-Action State 3 State 4 State 4 Off Off 'OR'-CONDITION 3 State 0 'OR'-CONDITION 5 'OR'-CONDITION 5	Deck2 - Play					
Deck4 - Play KEY INPUT Deck4 - Play PATH /ENGINE/DECK4/DECK/PLAY KEY Key: Space LEARN KEY LEARN KEY COD KEY INTERACTION CONDITION 1 Hold-Action CONDITION 2 DECK SWITCH CONDITION 3 Off Off 'OR'-CONDITIONS 'OR'-CONDITIONS	Deck3 - Play					
KEY INPUT Deck4 - Play NEW INPUT DUPLICATE DELET PATH /ENGINE/DECK4/DECK/PLAY KEY Key: Space LEARN KEY LEARN KEY COD KEY INTERACTION CONDITION 1 STATE 1 Hold-Action User64States State A DECK SWITCH CONDITION 2 State A Off State C 'OR'-CONDITIONS 'OR'-CONDITIONS	Deck4 - Play					
KEY Key: Space KEY INTERACTION CONDITION 1 Hold-Action User64States DECK SWITCH CONDITION 2 Off CONDITION 3 CONDITION 3 State 0 'OR*-CONDITIONS State 0	PATH		Deck4 - Play	ENGINE/DECK4/DECK/PLAY	WINPUT DU	IPLICATE DELETE
KEY INTERACTION CONDITION 1 STATE 1 Hold-Action User64States State A DECK SWITCH CONDITION 2 State A Off CONDITION 3 State C CONDITION 3 State D State D 'OR'-CONDITIONS 'OR'-CONDITIONS State C	KEY		Key: Space		LEARN KEY	LEARN KEY CODE
Hold-Action User64States State A DECK SWITCH Off State A CONDITION 2 CONDITION 3 CONDITION 3 CONDITIONS State D State D State D	KEY INTER	ACTION		CONDITION	11	STATE 1
DECK SWITCH Off Off Off Off Off Off Off Off Off Of	Hold-Ac	tion 🔻		User64Sta	tes 🍸	State A
Off State B CONDITION 3 	DECK SV	VITCH		CONDITION	2	State A
CONDITION 3 State D 'OR'-CONDITIONS	Off	•			•	State B
'OR'-CONDITIONS				CONDITION	3	State D
'OR'-CONDITIONS						
				0'	R'-CONDITIONS	

Torq 2.0 Controller Assignments User Guide

After the 4 assignments are created and mapped, as shown above, User6-4States is selected in the Condition 1 area and State A is selected for the 1st assignment, State B for the 2nd assignment and so on. This ties each assignment with its own user state.

Setting up User State Control

Creating a User State is similar to creating any other controller assignment. Instead of controlling a Torq parameter however, it controls the state value (A,B,C,D).

Create a Control State by clicking new input and then selecting one of the User Control States within the Control States area.

KEY INPUT		User64States	NEW	INPUT DUF	PLICATE	DELETE
PATH		/ENGINE/CON	ITROLSTATES/USER64STAT	ΈS		
KEY		Key: Alt		LEARN KEY	LEARN KE	EY CODE
KEY INTER	ACTION		CONDITION 1		STAT	TE 1
Inc. Va	lue 🔻			•		•
MIN. V	ALUE		CONDITION 2	2	STAT	TE 2
State	A 🔹			•		•
MAX. V	ALUE		CONDITION 3	}	STAT	TE 3
State	D			•		•
AUTO-RI	EPEAT		'OR	'-CONDITIONS		

In the example above, the Alt key is used to cycle through States A-D. Pressing Alt will cycle the space bar through the play buttons. Controller assignments can also to trigger specific states. The below example shows how a button can be set to trigger a specific State (State B).

CO	NTROL TYPE
BUTTON ACTION	
Set To Value	
BUTTON VALUE 1	
State D	
State A	
State B	
State C	
State D	

Pressing Alt will now cycle through any controller assignments that have been configured with "User6—4States" A-D as control states.

Getting Creative with User States

User states are a powerful way to get additional functionality out of your controller or keyboard. Here are some other things that are possible when using user states:

- Re-map a MIDI controller's platter to control a deck's effects with the press of a control state button
- Use a user state modifier to remap your controller's fast forward and rewind button to change the key of a deck
- Add another layer of alternate functionality to any MIDI note that is already mapped.

Appendix A: Controller Assignment Function List

The Controller Assignment Function list is an explanation of the function of all input and output paths available in the Controller Assignment Page.

When the output destination is blank, it is assumed that the output will display the state of the described input function. When input is blank, it is assumed that the function is only available as an output path.

Paramet	er			Description of Parameter IN
		Ornersfeder		
Ingine	Master	Crossfader	Crossfader	Crossfader position
			CrossfaderCurve	Crossfader Curve ammount
				Enables crosstader inversion (Hamster sw
			CrossfaderStyleSelect	Selects type of Track Morph or disables Tr
			CrossfaderStyleFreq	Enables the Frequency Track Morph Effect
			CrossfaderStyleCut	Enables the Cut Track Morph Effect
			CrossfaderStyleDuck	Enables the Duck Track Morph Effect
			CrossfaderStyleMorph	Enables the Morph Track Morph Effect
			CrossfaderStyleInverted	Inverts the Track Morph Effect
			CrossfaderTransformLeft	Triggers left Crossfader Transform Button
			CrossfaderTransformRight	Triggers right Crossfader Transform Buttor
			CrossfaderFllterType	Changes the Frequency Track Morph filter
			CrossfaderCutType	Changes the Cut Track Morph effect type
			CrossfaderDuckType	Changes the Duck Track Morph effect type
			CrossfaderMorphType	Changes the Morph Track Morph effect typ
			CrossFaderPFL	Enables the Track Morph Pre-listen PFL
			Deck1CrossfaderLeft	Enables routing of Deck A to left side of C
			Deck1CrossfaderRight	Enables routing of Deck A to right side of
			Deck2CrossfaderLeft	Enables routing of Deck B to left side of C
			Deck2CrossfaderRight	Enables routing of Deck B to right side of
			Deck3CrossfaderLeft	Enables routing of Deck C to left side of C
			Deck3CrossfaderRight	Enables routing of Deck C to right side of
			Deck4CrossfaderLeft	Enables routing of Deck Dto left side of C
			Deck4CrossfaderRight	Enables routing of Deck D to right side of
			Crossfader Master Value	N/A
		Mixer	MasterVolume	Controls the Master Volume ammount
			CueMix	Adjusts the position of the Cue Mix knob
			CueVolume	Controls the Cue Volume ammount
			HeadPhoneMasterMode	Adjusts the position of the Cue Mix knob
			CombinedPFL	Switches PFL source between Deck B and
			MeterMode	Switches External VU Meter between Mas
			MasterMeter	N/A
			0.14	

	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
itch)	
ack Morph	
:	
1	
type	
9	
De	
rossfader	
Crossfader	
rossfader	
Crossfader	
rossfader	
Crossfader	
ossfader	
Crossfader	
	Not Specified / Undefined
dC	
ter and Channel	
	Represents Master Volume Meter state in CC
	Represents Cue Meter state in CC

Paramet	er					Description of Parameter IN
Engine	Master	Sync/Master Tempo			AutoMasterDeck	Enables Auto Master feature
					Master Tempo	Adjusts Master Tempo
					DecrementMasterTempo	Decreases Master Tempo BPM
					IncrementMasterTempo	Increases Master Tempo BPM
					MasterDeckSet	Selects which Deck is the master
					TapMasterTempo	Uses input to tap tempo the Master Temp
					PhaseAlignmentDeck12	N/A
					PhaseAlignmentDeck34	N/A
					PhaseAlignmentDeckSwitch	N/A
					Metronome	Enables Metronome Feature
					TripletMode	Enables Shaffel / Triplet mode
		Preview			TrackPreviewToCue	Enables Track Preview
					SetTrackPreviewPosition	Adjusts playback position of Track Preview
		Midi Beat Clock			SendMidiDownBeat	Sends downbeat reset to MBC out or sta
					SendMidiStop	Stops MBC out
					WaitingForDownbeat	N/A
		Recordering (SP)			Record	N/A
					RecordTime	N/A
	Deck X (Applies to all Decks where Deck 1=A,					
	2=B, 3=C and 4=D)		Mixer	Channel Strip	Volume	Adjusts Channel Volume
					PFL	Enables Channel PFL
					EqGain	Adjusts Channel Gain Control
					EqLow	Adjusts Channel EQ Low frequency
					EqMid	Adjusts Channel EQ Mid frequency
					EqHigh	Adjusts Channel EQ High frequency
					GainKill	Enables Channel Gain Kill
					EQLowKill	Enables Channel Low Frequency Kill
					EqMidKill	Enables Channel Mid Frequency Kill
					EqHighKill	Enables Channel High Frequency Kill
					Bypass FX	Enables Channel Effects Bypass
					Line	Enables Channel Line Input
					VolumeMeter	N/A
					VolumeMeterCombined	N/A

	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
)	
	Shows phase alignment betwwen tracks in Decks 1 and 2
	Shows phase alignment betwwen tracks in Decks 3 and 4
	Shows phase alignment betwwen tracks in Deck switch focused Decks
/	
rts MBC out	
	Indicates whether downbeat has been trig- gered after SendMidDownBeat has been engaged
	Indicates whether the Master record is enabled
	Sends recording time in MIDI text
	Represents Master Volume Meter state in CC
	Represents either Master Volume Meter or
	Deck Meter state in CC (Depending on Preference)

Engine (spoke to all locks y=B, g=C, and s=D) Miter Effect X (Applies to all Channel X, perm) (deta for disciplicity bits 1-4) Chained Enables Chain Effects Mode VST Effect Effect A (deta for disciplicity bits 1-4) Effect Mode Applies to all Channel (Effect Bale Applies which Effect I house VST Effect Effect A (deta for disciplicity bits 1-4) FramButton Enables Chain Effects Mode VST Effect Effect A (deta for disciplicity bits 1-4) FramButton Enables the Effect Parameter Botton ParamEuton Enables the Effect Parameter Rob SeedMode Chained FramButton VST Effect Effect A Main Applies the VST Ammount Nob SeedMode Chainel Enables the VST Parameter Rob VST Effect Effect A Main Enables the VST Parameter Rob Parameter Rob Parametherin Enables Devid System VST Parameter Rob Parametherin Parametherin Seate Chain Seate Povid Seate Cha	Parameter					Description of Parameter IN
Engline Udex A Endlexis	Foreing	Decle X				
Tansport Functional and the second	Engine	DECK X (Applies to all Decks where Deck 1=A, 2=B, 3=C and 4=D)	Mixer	(Applies to all Channel FX parameters for effect slots 1-4)	Chained	Enables Chain Effects Mode
VST Effect Enable Enables Effect Variabilition Not Specified / Undefined ParamButton Enables the Effect Parameter Button ParamButtonShith Not Specified / Undefined VST Effect Effect Adjusts the UFfect Parameter Kobb SendMode Charges the Effect Parameter Kob SendMode Charges the Effect Parameter Kob Enable Enables Effect Adjust the VST Parameter Kob Enables the VST Parameter Kob ParamButton1 Enables the VST Parameter Kob ParamButton2 Enables the VST Parameter Kob ParamButton1 Enables the VST Parameter Kob ParamKob1 Adjusts the VST Parameter Kob ParamKob1 Adjusts the VST Parameter Kob ParamKob2 Adjusts the VST Parameter Kob ParamKob1 Enables the VST Parameter Kob ParamKob2 Adjusts the VST Parameter Kob ParamKob1 SeckTachon SeckTachon3 SeckTachon3 SeckTachon4 SeckS Backward SockFrowrd Socks Forward SeckTackTart Rease the Dack the Syne Master SeckTackTart Rease gird backwards NudgeFroward Nudges Tack Torward NudgeFroward Nudges Tack Sprase gird backwards					Effect	Adjusts which Effect is loaded
Main Adjusts the Effect Ammount Knob ParamBution Enables the Effect Parameter Knob ParamButionShift Not Specified / Undefined ParamButionShift Not Specified / Undefined ParamKinob Adjusts the Effect Parameter Knob SendMode Changes the Effect Parameter Knob Effect Effect Effect Effect ParamBution1 Enables the Effect Parameter Knob SendMode Changes the VST Farameter Button 1 ParamBution1 Enables the VST Parameter Button 1 ParamRuton2 Enables the VST Parameter Button 1 ParamRuton3 Adjusts the VST Parameter Button 2 ParamRuton4 Adjusts the VST Parameter Ruto 1 ParamRuton5 ParamRuton3 BardDacNToSyncMaater Adjusts the PST Parameter Ruto 1 ParamRuton3 Enables Net VST Parameter Ruto 1 ParamRuton3 Enables Net VST Parameter Ruto 1 ParamRuton3 Enables Net VST Parameter Ruto 1 ParamRuton3 Seles Cau Point Seles CauPoint Seles Cau Point Seles CauPoint Seles CauPoint					Enable	Enables Effect
Franchitic Exables the Effect Parameter Ruton ParamButionShift Not Specified / Undefined ParamKobo Aquists the Effect Parameter Ruton SendMode Changes the STF Mis Adjuits the VST Ammount Knob SendMode Changes the VSTF Parameter Button 1 ParamButono Enables the VST Parameter Button 1 ParamButono Adjuits the VST Parameter Button 1 ParamButono Adjuits the VST Parameter Button 1 ParamKotob Adjuits the VST Parameter Button 2 ParamButton Transport Transport ParamKotob Quarktine Transport ParamKotob Adjuits the VST Parameter Button 2 Selver ParamKotob ParamKotob Selver ParamKotob					Mix	Adjusts the Effect Ammount Knob
Franzbit Not Specified / Undefined ParamButnonShit Not Specified / Undefined ParamButnon Adjusts the Effect routing VST Effect Effect Adjusts witch VST Effect YamButnon Effect Adjusts witch VST Effect ParamButnon Enables VST Miz Adjusts the VST Ammount Knob SenMode Changes the VST Parameter Butnon ParamKob1 Adjusts the VST Parameter Butnon ParamKnob1 ParamKnob2 Adjusts the VST Parameter Knob 1 ParamKnob2 ParamKnob2 Adjusts the VST Parameter Knob 1 ParamKnob2 ParamKnob1 Adjusts the VST Parameter Knob 1 ParamKnob2 ParamKnob2 Adjusts the VST Parameter Knob 1 ParamKnob2 SelscuePoint Sels Cue Point Sels Cue Point SelsCuePoint Sels Cue Point Sels Cue Point SelsCuePoint Sels Cue Point Sels Cue Point SelsCuePoint Selse Envard Sels Envard SelsCuePoint Selse Envard Sels Cue Point SelsCuePoint Selse Envard Sels Envard					ParamButton	Enables the Effect Parameter Button
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SeekTrackStart Resets song to beginning SeekTrackEnd Moves playback to end of song NudgeBackward Nudges Track Backward NudgeForward Nudges Track Forward OffsetBackward Moves Track back by one beat OffsetForward Moves Track forward by one beat NudgePhaseBackward Nudges a Track's phasegrid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forwards OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forwards by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A DecklEDState N/A					SeekForward	Seeks Forward
SeekTrackEnd Moves playback to end of song NudgeBackward Nudges Track Backward NudgeForward Nudges Track Forward OffsetBackward Moves Track back by one beat OffsetForward Moves Track forward by one beat NudgePhaseBackward Nudges a Track's phase grid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid forwards to a beat OffsetPhaseBackward Moves a Track's phase grid forwards to a beat OffsetPhaseBackward Moves a Track's phase grid forwards to a beat OffsetPhaseBackward Moves a Track's phase grid forward by a beat OffsetPhaseEforward Moves a Track's phase grid forward by a beat OffsetPhaseEforward Moves a Track's phase grid forward by a beat OffsetPhaseEforward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A					SeekTrackStart	Resets song to beginning
NudgeBackward Nudges Track Backward NudgeForward Nudges Track Forward OffsetBackward Moves Track back by one beat OffsetForward Moves Track forward by one beat NudgePhaseBackward Nudges a Track's phasegrid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A					SeekTrackEnd	Moves playback to end of song
NudgeForward Nudges Track Forward OffsetBackward Moves Track back by one beat OffsetForward Moves Track forward by one beat NudgePhaseBackward Nudges a Track's phasegrid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A					NudgeBackward	Nudges Track Backward
OffsetBackward Moves Track back by one beat OffsetForward Moves Track forward by one beat NudgePhaseBackward Nudges a Track's phasegrid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A					NudgeForward	Nudges Track Forward
OffsetForward Moves Track forward by one beat NudgePhaseBackward Nudges a Track's phasegrid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A					OffsetBackward	Moves Track back by one beat
NudgePhaseBackward Nudges a Track's phasegrid backwards NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A Syncl EDState N/A					OffsetForward	Moves Track forward by one beat
NudgePhaseForward Nudges a Track's phase grid forwards OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A Syncl EDState N/A					NudgePhaseBackward	Nudges a Track's phasegrid backwards
OffsetPhaseBackward Moves a Track's phase grid backward by a beat OffsetPhaseForward Moves a Track's phase grid forward by a beat DecklsMaster N/A CueLEDState N/A Syncl EDState N/A					NudgePhaseForward	Nudges a Track's phase grid forwards
OffsetPhaseForward Moves a Track's phase grid forward by a beat DeckIsMaster N/A CueLEDState N/A Syncl EDState N/A					OffsetPhaseBackward	Moves a Track's phase grid backward by a beat
DecklsMaster N/A CueLEDState N/A Syncl EDState N/A					OffsetPhaseForward	Moves a Track's phase grid forward by a beat
CueLEDState N/A					DecklsMaster	N/A
Suncl EDState NI/A					CueLEDState	N/A
Synce Dotate N/A					SyncLEDState	N/A

N	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
1	
2	
ughout the song	
rds	
d by a beat	
by a beat	
	Displays if the deck is the master
	Displays the Deck's Cue button state
	Displays whether the Deck's Sync is engaged

Parame	ter			Description of Parameter IN
Engine	Deck X (Applies to all Decks where Deck 1=A, 2=B_3=C and 4=D)	Speed	Speed	Adjusts the position of the Deck's Speed Adjust
	2 0,0 0 and 1 0)		SpeedRange	Adjusts the Deck's Speed Range
			KevTempoLock	Enables Lock Key to Speed
			FlattenTempo	Enables Flatten Anchor Tempo
			TempoMultiplier	Adjusts the Deck's Tempo Multiplier Ammount
			TapTempo	Sets the BPM of the Track by tapping the Tem
			ResetTempo	Resets the BPM of the track.
			AddAnchorAtNowLine	Places Anchor marker
			CurrentBPM	N/A
			SpeedState	N/A
			AverageDeckSpeed	N/A
			SpeedNeutral	N/A
		Scratch Wheel	ControlMode	Switches Deck Control Modes (Vinyl/CDJ/Hyb
			TouchEnable	Enables Platter Touch (Switches to and from V Mode)
			ExternalScratchWheelTouch	Triggers "Hand On" action for track scratching tion
			ExternalScratchWheelMove	Engages platter movement action for track scra manipulation
			ExternalScratchWheelPhase- Move	Nudges a Track's phasegrid using scratch/plat
		Кеу	Кеу	Adjusts the Deck's key (+/- 12 semitones)
			KeyReset	Resets the Deck's key to 0
			IncrementKey	Increments a Deck's key by 1 semitone
			DecrementKey	Decrements a Deck's key by 1 semitone
			KeyResetDecimal	Resets a Deck's key to the closes integer
			KeylsPitchedDown	N/A
			KeylsPitchedUp	N/A
		Quick Cue	JumpToQuickCue1	Sets Deck's track to the position of Quick Cue
			JumpToQuickCue2	Sets Deck's track to the position of Quick Cue
			JumpToQuickCue3	Sets Deck's track to the position of Quick Cue
			JumpToQuickCue4	Sets Deck's track to the position of Quick Cue
			JumpToQuickCue5	Sets Deck's track to the position of Quick Cue
			SetQuickCue1	Places Quick Cue 1 on Deck's Now Line
			SetQuickCue2	Places Quick Cue 2 on Deck's Now Line
			SetQuickCue3	Places Quick Cue 3 on Deck's Now Line
			SetQuickCue4	Places Quick Cue 4 on Deck's Now Line
			SetQuickCue5	Places Quick Cue 5 on Deck's Now Line
			ResetQuickCues	Removes all Quick Cues from a Deck's Track
			QuickCue1Exists	N/A
			QuickCue2Exists	N/A

N	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
peed Adjust Slider	
Ammount	
ng the Tempo	
	Displays a Deck's BPM in MIDI Text
	Not Specified / Undefined
	Displays a Deck's Average Speed in MIDI Text
	Indicates whether the speed of a Deck is at +/- 0%
/l/CDJ/Hybrid)	
and from Vinyl Control	
scratching / manipula-	
or track scratching /	
cratch/platter wheel	
itones)	
one	
tone	
iteger	Indiantae whether a key is nitched above 0
	Indicates whether a key is pitched above 0
Ouick Cue 1	indicates whether a key is pitched below o
Quick Cue 2	
Ouick Cue 3	
Quick Cue 4	
Quick Cue 5	
/ Line	
/ Line	
/ Line	
Line	
Line	
ck's Track	
	Indicates whether Quick Cue 1 Exists
	Indicates whether Quick Cue 2 Exists

Parame	ter			Description of Parameter IN	Desc (Parar descr
Engine	Deck X (Applies to all Decks where Deck 1=A, 2=B, 3=C and 4=D)	Quick Cue	QuickCue3Exists	N/A	Indica
			QuickCue4Exists	N/A	Indica
			QuickCue5Exists	N/A	Indica
		External Control	ExternalControl	Enables External Control on a Deck	
			SetExternalControlChannelEx- clusively	Not Specified / Undefined	
			Relative Mode	Toggles between Relative and Absolute Mode	
			RelativeSpeedMode	Disables Relative Speed Mode if enabled	
			TimeCodeChannel	Selects which channel is used for External Control	
			StealExternalControl	N/A	Not S
			FreeWheelMode	N/A	Not S
		Loop	Loop	Engages a Deck's Loop	
			LoopIn	Sets a Deck's Loop in point at the Now Line	
			LoopOut	Sets a Deck's Loop out point at the Now Line	
			SetLoop1	Sets a 1 Bar (or Beat) Loop at the now line	
			SetLoop2	Sets a 2 Bar (or Beat) Loop at the now line	
			SetLoop4	Sets a 4 Bar (or Beat) Loop at the now line	
			SetLoop8	Sets a 8 Bar (or Beat) Loop at the now line	
			CurrentLoopFactor1	N/A	Indica (Direc
			CurrentLoopFactor2	N/A	Indica (Direc
			CurrentLoopFactor4	N/A	Indica (Direc
			CurrentLoopFactor8	N/A	Indica (Direc
			SetLoop1Shift	Engages 1 Loop alternate function	
			SetLoop2Shift	Engages 2 Loop alternate function	
			SetLoop4Shift	Engages 4 Loop alternate function	
			SetLoop8Shift	Engages 8 Loop alternate function	
		Double / Load / Unload Deck	LoadTrackToDeck	Loads the selected track in Browser to Deck	
			Unload	Unloads the Deck's currently loaded track	
			DoubleInstance	DoubleInstance	
			DoubleInstanceTarget	Selects which Deck to be doubled (A,B,C,D)	
		MIDI Platter	External Platter Controlled	turns on motor platter controlled mode (NS7!)	
			External PlatterRunning	turnOn/off motor	Engaç
			ExternalPlatterSpeed	Uses the velocity of the controller on a motorized platter to determine track playback speed	
			ExternalPlatterPhaseMove	Uses the velocity of the controller on a motorized platter to nudge the phase of a track	
			Reverse	N/A	Rever
			ExternalPlatterMotorSpeed	N/A	Contr

IN	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
	Indicates whether Quick Cue 3 Exists
	Indicates whether Quick Cue 4 Exists
	Indicates whether Quick Cue 5 Exists
olute Mode	
nabled	
xternal Control	
	Not Specified / Undefined
	Not Specified / Undefined
Now Line	
	Indicates if the loop state has changed from 1 (Direct Mode)
	Indicates if the loop state has changed from 2 (Direct Mode)
	Indicates if the loop state has changed from 4 (Direct Mode)
	Indicates if the loop state has changed from 8 (Direct Mode)
r to Deck	
d track	
(A,B,C,D)	
ode (NS7!)	
	Engages or Disengages a motorized platter
on a motorized platter to	
on a motorized platter to	
	Reverses the direction of a motorized platter
	Controls the speed of a motorized platter

Paramete	er				Description of Parameter IN	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
Engine	Deck X (Applies to all Decks where Deck 1=A, 2=B, 3=C and 4=D)		Song Info	Song Position	N/A	Sends Song Position in CC value
				SongName	N/A	Sends Song Name in MIDI text
				ArtistName	N/A	Sends Artist Name in MIDI text
				ElapsedTime	N/A	Sends Elapsed Time in MIDI text
				RemainingTime	N/A	Sends Remaining Time in MIDI text
				SongLoaded	N/A	Indicates whether Song is Loaded
				TrackHasAnchors	N/A	Indicates whether Song containes Anchors
				OnBeat	N/A	Not Specified / Undefined
				Phase	N/A	Not Specified / Undefined
				ClockAngle	N/A	Indicates External Control Clock Angle in CC
	Sampler	Sampler X (Applies to all Sampler F	Parameters for Samplers 1-18)	Play	Engages Sample Play	
				Stop	Engages Sample Stop	
				Volume	Adjusts the Sample's Volume	
				Speed	Adjusts the Sample's Speed of playback	
				Loop	Enables Sample Loop functionality	
				QuickScratch1	Loads /Unloads Sample into Deck A	
				QuickScratch2	Loads /Unloads Sample into Deck B	
				QuickScratch3	Loads /Unloads Sample into Deck C	
				QuickScratch4	Loads /Unloads Sample into Deck D	
				Record	Records Sample	
				Track Position	N/A	Shows position of Sample via CC
				RecordLooped	Records a Looped Sample	
		Controller Deck Swite	ch	DeckSwitchLeft	Selects which Deck will be controlled by the Left Deck Focus (Green)	
				DeckSwitchRight	Selects which Deck will be controlled by the Right Deck Focus (Purple)	
				LeftDeckSwitchAltDeck1	N/A	Indicates if deck 1 is selected with the left Deck Switch
				LeftDeckSwitchAltDeck2	N/A	Indicates if deck 2 is selected with the left Deck Switch
				LeftDeckSwitchAltDeck3	N/A	Indicates if deck 3 is selected with the left Deck Switch
				LeftDeckSwitchAltDeck4	N/A	Indicates if deck 4 is selected with the left Deck Switch
				RightDeckSwitchAltDeck1	N/A	Indicates if deck 1 is selected with the right Deck Switch
				RightDeckSwitchAltDeck2	N/A	Indicates if deck 2 is selected with the right Deck Switch
				RightDeckSwitchAltDeck3	N/A	Indicates if deck 3 is selected with the right Deck Switch

Parame	ter			Description of Parameter IN
Engine	Sampler	Effects Touch Pad Control	HyperFXControlFX	Selects which Effect is controlled by the F
			HyperFXControlTouch	Engages Hyper FX Control
			HyperFXControlMix	Adjusts the Hyper FX Control Mix paramet
			HyperFXControlParam	Adjusts the Hyper FX Control 2ndary para
		Preferences	RelativeModeBehavior	Toggles between Absolute Rotation Angle
			AutoRelativeSpeed	Enables Relative Speed Mode when switc Control
			EffectsMode	Toggles between Regular and Chain Effect
			LoopOutMode	Toggles between Smart and 16th Loop O
			QuantizeTo16th	Enables Quantizing Loop and Quick Cue
			QuickloopMode	Toggles between "Cut and Grow" and Dir modes
			QuickloopSize	Toggles between Bar and Beat modes
			SyncMode	Adjusts Sync mode (Bar, Beat, Tempo)
			TransportMode	Toggles between Regular and Reverse Tra
			CueExclusive	Enables Cue Exclusivity
			NudgeSensitivity	Adjusts MIDI Platter Nudge Sensitivity
			ScratchSensitivity	Adjusts MIDI Platter Scratch Sensitivity
Browser			CurrentView	Toggles Browser Focus between Location and Filter
			MoveToPreviousItem	Moves One Item down in the Selected Lis
			MoveToNextItem	Moves One Item Up in the Selected List
			CurrentItemShift	Use with Rotary Encoder or Knob to Scrol lected List
			CollapseItem	Colapses Tree in Index
			ExpandItem	Expands Tree in Index
			Enter	Enter
			JumpToCrates	Moves Database Focus to Crates
			JumpToPlaylists	Moves Database Focus to Playlists
			JumpToDatabase	Moves Database Focus to Database
			JumpToFiles	Moves Database Focus to Files
			SwitchtoSnapshots	Toggles between Snapshots and Databas
			AddItemToCurrentCrate	Adds Selected item to Current Crate
			Create	Creates new item in Index (Context Sensit
			Rename	Renames Selected Item
			Delete	Deletes Selected Item
			AnalyzeSong	Analyzes Selected Song
			RefreshFileLIstView	Refreshes File List View
			BrowserAnalyzeProgress	N/A
			BrowserAnalyzeCancel	Cancels Any Analysis
			BrowserAddingProgress	N/A
			BrowserAddingProgressVisable	
			BrowserAddingCancel	Cancells Any Adding to Browser/Databas

	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
lyper FX Control	
ter	
ameter	
e and Normal	
hing to External	
ts modes.	
ut modes	
ooints	
ect Quick Loop	
insport modes	
, File List, Search	
t	
l through Se-	
e View	
ive(
	Displays % of Analysis in CC
	Displays % of Adding to Database in CC
	Not Specified / Undefined
e	

Parameter		Description of Parameter IN
Control States	Shift	Enables Shift Modifier
	Alt	Enables Alt Modifier
	Control	Enables Control Modifier
	CapsLock	Enables CapsLock Modifier
	GlobalQuickCueMode	Changes wheter a quick cue press sets c cue (Global)
	TimeModeDeck1	Switches whether time displayed is elaps
	TimeModeDeck2	Switches whether time displayed is elaps
	TimeModeDeck3	Switches whether time displayed is elaps
	TimeModeDeck4	Switches whether time displayed is elaps
	GlobalTimeMode	could be used to switch elapsed/remaini
	User12States	2 State (A/B) Variable
	User22States	2 State (A/B) Variable
	User32States	2 State (A/B) Variable
	User42States	2 State (A/B) Variable
	User53States	3 State (A/B/C) Variable
	User64States	4 State (A/B/C/D) Variable
GUI	SelectLanguage	Selects Which is the Default Language
	SelectScheme	Selects Color Scheme
	ShowPreferences	Toggles the Preference Windows
	HideMixer	Enables the Hide Mixer View
	HideSampler	Enables the Hide Sampler View
	MaximizedBrowser	Enables the Max Browser View
	MaximizedWaveforms	Enables the Max Waveforms View
	ShowDeckAssignment	Enables the Deck Switch Rectangles
	IncrementSamplerScrollIndex	Toggles Sampler View Right Button
	DecrementSamplerScrollIndex	Toggles Sampler View Left Button
Blank Displays	BlankNumber	N/A
	BlankText	N/A
	BlankTime	N/A
LED ON	TorqRunning	N/A
Learning	EscapeLearning	Cancels MIDI learn state
	EscapeLearningAndForget	Cancels MIDI learn state, reverting assign

	Description of Parameter OUT (Parameter mirrors state or position of input description unless otherwise specified)
r cues the quick	
ed or Remaining	
ng	
	Sends a blank number display in MIDI Text
	Sends a blank text display in MIDI Text
	Sends a blank time display in MIDI Text
	Displays Whether Torq is Running
ment	

Appendix B: Warranty

Warranty Terms

Avid warrants products to be free from defects in materials and workmanship, under normal use and provided that the product is owned by the original, registered user. Visit www.m-audio.com/warranty for terms and limitations applying to your specific product.



Avid 5795 Martin Road Irwindale, CA 91706-6211 USA Technical Support (USA) Visit the Online Support Center at www.avid.com/support Product Information For company and product information, visit us on the web at www.avid.com