

ROCKTRON

TECHNOLOGY FOR GUITARISTS

MIDI RAIDER



U S E R ' S M A N U A L

Precautions

PRECAUTIONS

NOTE: IT IS VERY IMPORTANT THAT YOU READ THIS SECTION TO PROVIDE YEARS OF TROUBLE FREE USE. THIS UNIT REQUIRES CAREFUL HANDLING.

All warnings on this equipment and in the operating instructions should be adhered to and all operating instructions should be followed. Do not use this equipment near water. Care should be taken so that objects do not fall and liquids are not spilled into the unit through any openings.

The power cord should be unplugged from the outlet when left unused for a long period of time.

DO NOT ATTEMPT TO SERVICE THIS EQUIPMENT. THIS EQUIPMENT SHOULD BE SERVICED BY QUALIFIED PERSONNEL ONLY. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME. DO NOT TAMPER WITH INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY OF THIS EQUIPMENT, AS WELL AS CAUSING SHOCK HAZARD.

OPERATING TEMPERATURE

Do not expose this unit to excessive heat. This unit is designed to operate between 32° F and 104° F (0° C and 40° C). This unit may not function properly under extreme temperatures.



CE Approved

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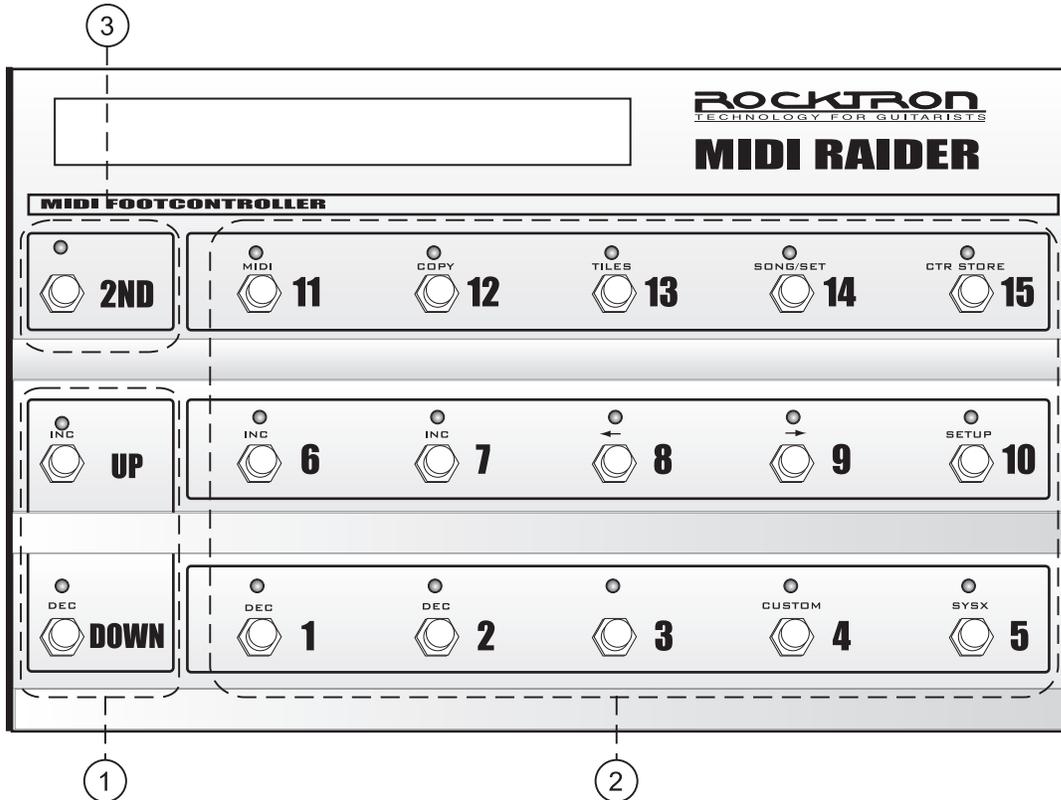
Introduction

The Rocktron MIDI Raider is a powerful onstage tool for the serious professional guitarist. A stand-alone foot controller that can be completely customized for your gear requirements, the MIDI Raider can be set up to your specs in three operating modes: Bank Mode, Song Mode and Remote Mode.

- * Bank Mode has 120 presets and each instant switch can be set up global or per preset.
- * Customize set-up as either 24 banks of 5 presets with 10 “instant” switches (effect on/off); or 12 banks of 10 presets with 5 instant switches (effect on/off); or 8 banks of 15 presets with no instant switches set up.
- * Song Mode allows up to 150 songs to be stored with 15 presets per song. The 10 sets allow placement of 50 songs per set.
- * All MIDI Raider 15 access switches can also be set up to “instant”, operating as a huge instant access “pedal board”. Remote mode automatically programs the footswitch to match Rocktron remote-compatible units, including titles and individual switch functions.
- * Functions like tap delay, mute, boost and effects on/off instantly appear when connected to a Rocktron remote jack without any programming.
- * 18 metal switches for positive tactile feel and long life.
- * Large display for custom titles and easy programming and clear visual on any stage.
- * LED indicators light for every switch at all times as an on/off status indicator.
- * Seven pin MIDI Out jack allows phantom powering from your rack.
- * 120 presets which can include over 36 MIDI commands per preset to be transmitted amongst the 16 MIDI channels including “togglng” control change commands.
- * MIDI filtering, dump/load, SysEx
- * Select 0-127 or 1-128 transmit operation.
- * Fast, easy copy function allows you to copy any preset, bank, song, or set to another respectfully.

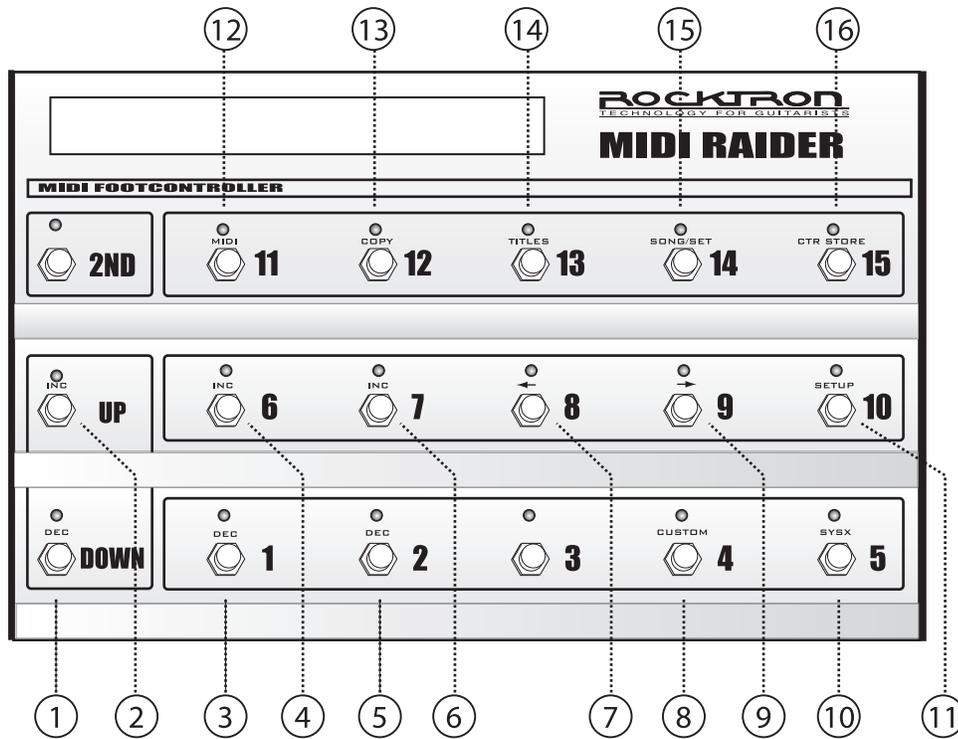
Top Panel

Primary button functions (2ND L.E.D. off) of the MIDI Raider footswitch



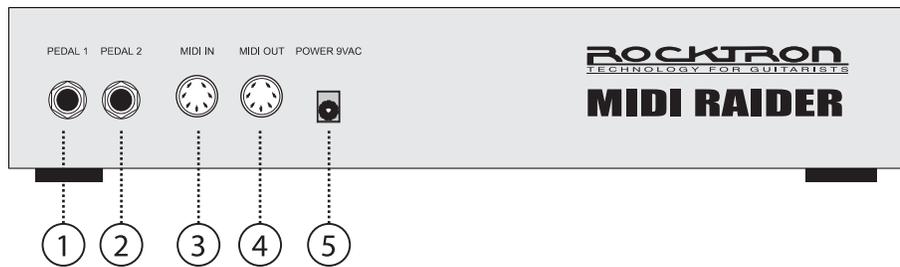
- ① Bank UP/DOWN switches These switches allow for the selection of the preset bank (0-12). switches
- ② Switches 1-15 These switches are used as preset switches and/or instant access switches, dependent upon the configuration of the MIDI Raider. (see SETUP, Pages 1 and 2)
- ③ 2ND switch This switch activates the secondary button functions. The secondary button functions are listed above each switch (see opposite page)

Secondary button functions (2ND L.E.D. on) of the MIDI Raider footswitch



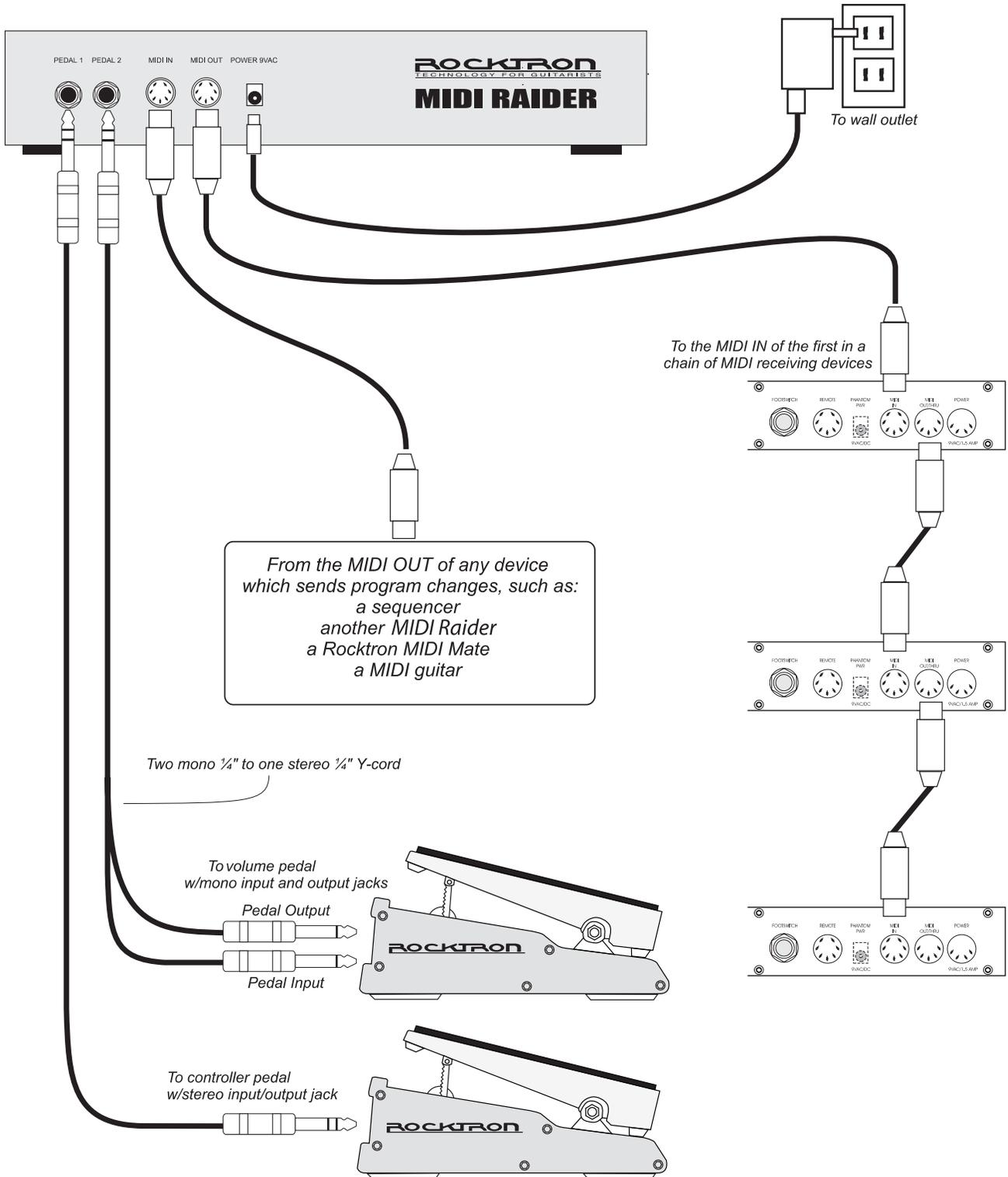
- | | |
|---|---|
| <p>① DEC switch - used to decrement data selection currently shown on the left side of the display.</p> <p>② INC switch - used to increment data selection currently shown on the left side of the display.</p> <p>③ DEC switch - used to decrement data selection currently shown in the center of the display.</p> <p>④ INC switch - used to increment data selection currently shown in the center of the display.</p> <p>⑤ DEC switch - used to decrement data selection currently shown on the right side of the display.</p> <p>⑥ INC switch - used to increment data selection currently shown on the right side of the display.</p> <p>⑦ ⇐ switch - used to access the previous page within an editing program.</p> <p>⑧ CUSTOM switch - used to access the CUSTOM editing program.</p> | <p>⑨ ⇒ switch - used to access the next successive page within an editing program.</p> <p>⑩ SYSX switch - used to access the SYSX editing program.</p> <p>⑪ SETUP switch - used to access the SETUP editing program.</p> <p>⑫ MIDI switch - used to access the MIDI editing program.</p> <p>⑬ COPY switch - used to access the COPY editing program.</p> <p>⑭ TITLES switch - used to access the TITLES editing program.</p> <p>⑮ SONG/SET switch - used to access the SONG/SET editing program.</p> <p>⑯ CTR/STORE switch - used to store the current on/off status of the instant access switches for the current preset.</p> |
|---|---|

Rear Panel



- ① PEDAL 1 jack This ¼” stereo TRS jack allows for the connection of a continuous controller (such as an expression pedal, volume pedal, fader, etc.) to the MIDI Raider.
- ② PEDAL 2 jack This ¼” stereo TRS allows for the connection of a second continuous controller to the MIDI Raider.
- ③ MIDI IN jack This 7-pin DIN connector accepts the MIDI output signal from another MIDI transmitting device which may be used to control the MIDI Raider. In some applications, MIDI information will also be sent out through the MIDI IN jack through pins 1 and 3.
- ④ MIDI OUT jack This 7-pin DIN connector transmits MIDI information from the MIDI Raider and connects to a MIDI receiving device or the first in a chain of MIDI receiving devices. In some applications, MIDI information will also be received through the MIDI OUT jack through pins 1 and 3. Pins 6 and 7 of this connector provide phantom power to the MIDI Raider from your rack.
- ⑤ POWER jack This 2.5mm pin jack accepts power from the 9VAC adaptor supplied with the unit.

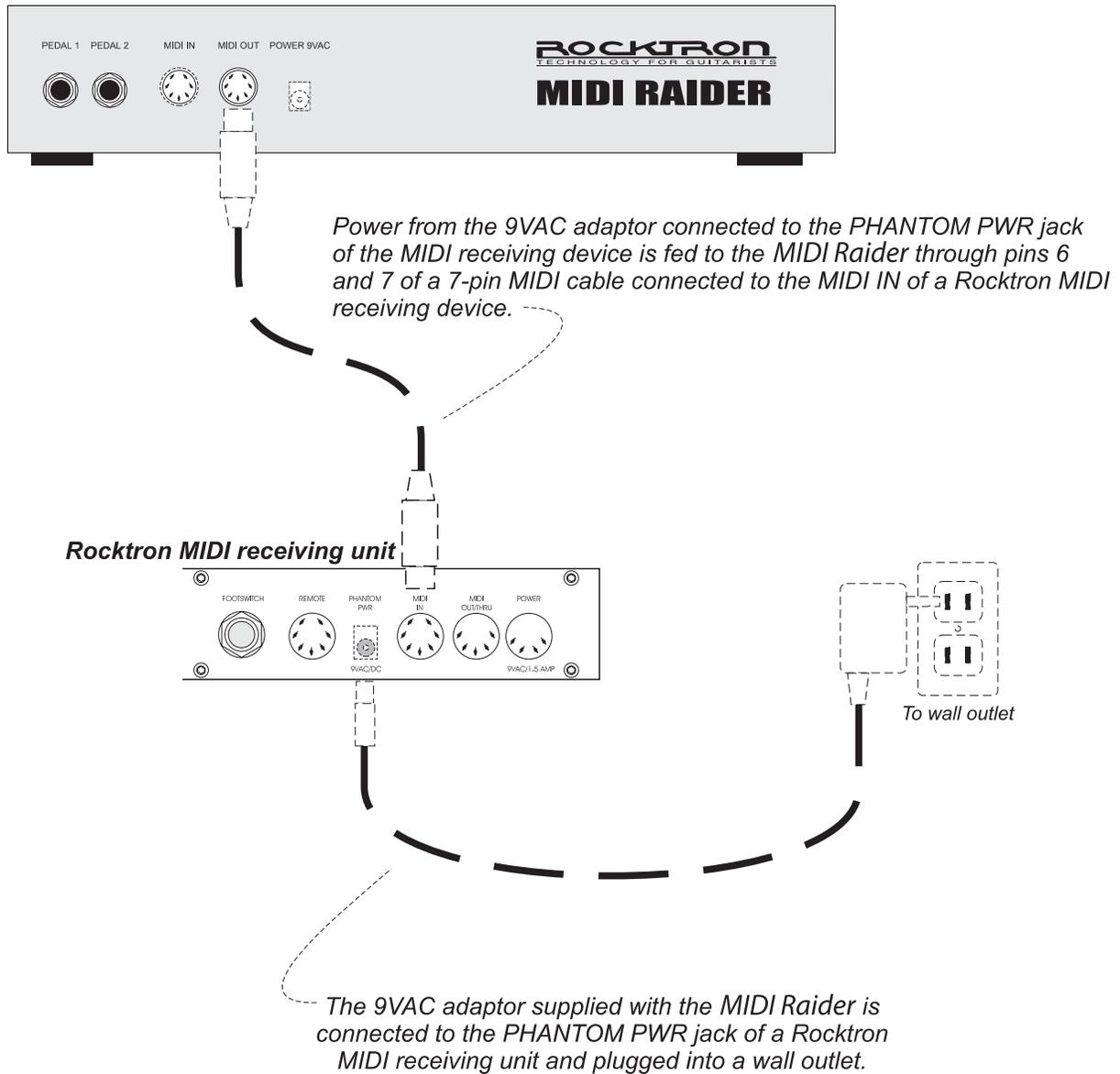
Typical Setup



Using Phantom Power

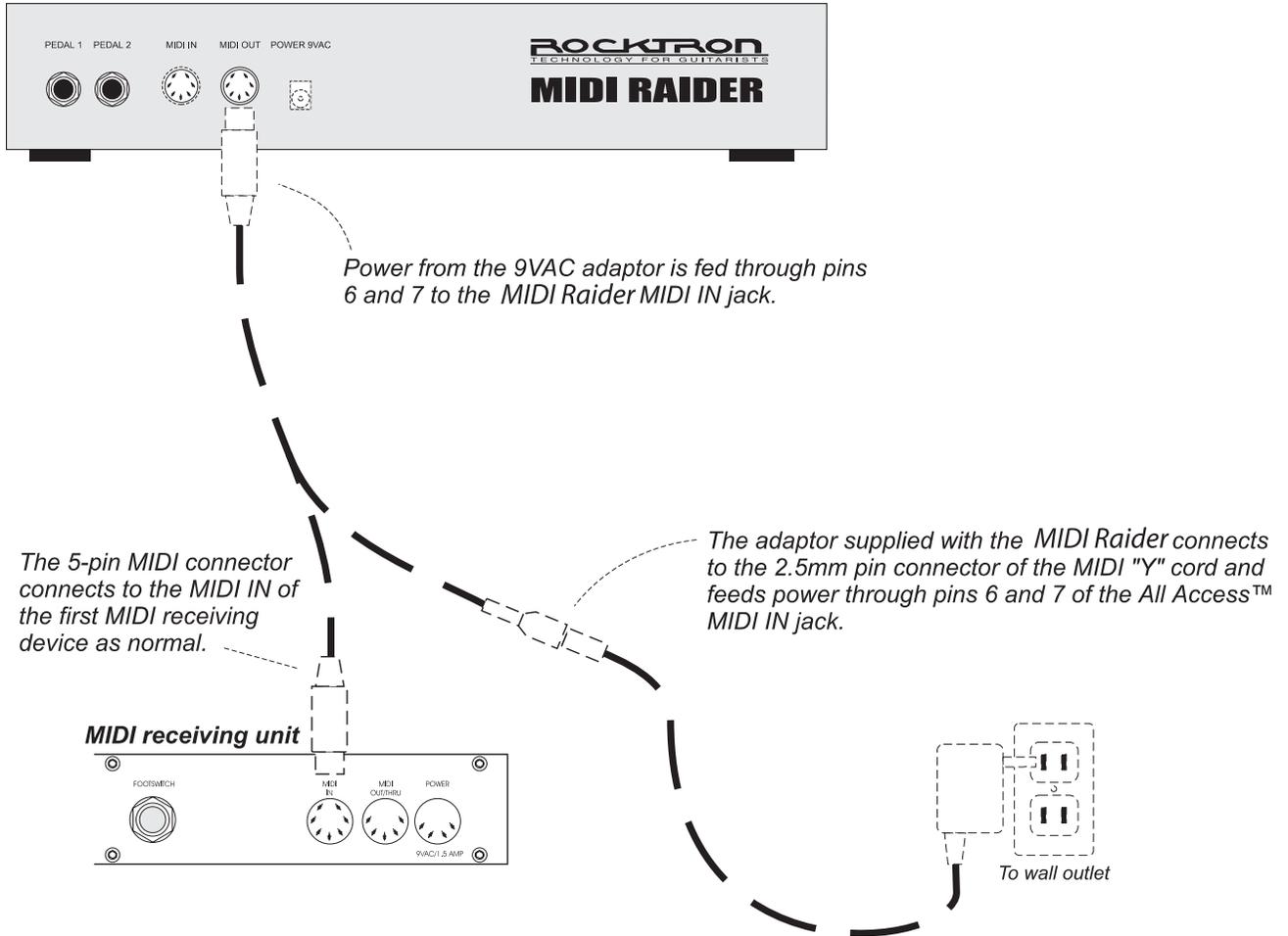
Phantom power allows for the MIDI Raider to be powered from your rack (or from an AC outlet near your rack) instead of running a long extension cord out across the stage to the footswitch.

Using phantom power with a Rocktron MIDI receiving device



Using Phantom Power

Using phantom power with a non-Rocktron MIDI receiving device



Editing the MIDI Raider

The MIDI Raider can be configured to provide complete control over all of the MIDI receiving devices within a rack. This section discusses each of the following editing programs in detail:

SETUP
MIDI
COPY
TITLES
SONG/SET
CTR STORE
CUSTOM
SYSX

The MIDI Raider MIDI edit cycle on the following page can be used as a quick reference when searching for specific MIDI Raider editing pages.

Quick Reference - MIDI Edit Cycle

The figure below lists all of the pages for each editing function, as well as the options which are available for each editing page.

* Press "2ND" to access the following edit functions:

PRESET 120 ↑ PRESET 1	PRESS:	EDITING PAGE	LEFT EDIT OPTIONS	CENTER EDIT OPTIONS	RIGHT EDIT OPTIONS
	"SETUP"	P1 Operating Mode "↔" P2 Bank Size "↔" P3 Bank Style "↔" P4 Instant Access Status "↔" P5 Naming Channels/Switches "↔" P6 Starting Preset Number "↔" P7 MIDI Filtering "↔" P8 Preset Reinitialization "↔" P9 Memory Reinitialization "↔" P10 Remote Title Number "↔"	----- ----- ----- SW1-15, PED1-2 CH1-16, SW1-15, PED1-2 CH1-16 All MIDI Commands, CH1-16 ----- ----- -----	----- ----- ----- ----- A-Z, 1-9 ----- ----- ----- -----	BANK, SONG, REMOTE 1, 5, 10, 15 FIRST, CURNT, OFF GLOBAL, PER PRESET character position 0, 1 BLOC, MERG PR1-120 0-255 0-255
	"MIDI"	P1 Prog. Patch Changes "↔" P2 Control Number Assignment "↔" P3 Control Value Assignment "↔" P4 Switch Type "↔" P5 Program Change Status "↔" P6 Program Mapping "↔" P7 MIDI Receive Channel "↔"	PR1-120 SW1-15, PED1-2 SW1-15, PED1-2 SW1-15 ----- PC1-128 -----	CH1-16 CH1-16 (On value) 0-127, OFF ----- ----- ----- -----	1-128 (0-127), OFF 0-120, OFF (Off value) 0-127, OFF LATCH., MOM., HOLD OFF, ON, MAP PR1-120, OFF 1-16, OMNI
	"COPY"	P1 Preset Copy "↔" P2 Bank Copy "↔" P3 Song Copy "↔" P4 Set Copy "↔"	PR1-120 BANK1-50 SONG1-150 SET1-10	----- ----- ----- -----	PR1-120 BNK1-50 SG1-150 SET1-10
	"TITLES"	P1 Create Preset Title	PR1-120	A-Z, 1-9	character position
	"SONG/SET"	P1 Set Select "↔" P2 Song Create "↔" P3 Set Create "↔"	----- SONG1-150 SET1-10	----- SW1-15 BK1-50	SET1-10 PR1-120 SG1-150
	"CTR STORE"	"CTR STORE" P1 Store Instant Access Status	-----	-----	-----
	"CUSTOM"	P1 Command Selection "↔" P2 Additional Data	PR1-120 (dependent on P1)	CMD1-5 (dependent on P1)	All MIDI Commands, None (dependent on P1)
	"SYSX"	P1 Bulk Dump/Load "↔" P2 MIDI Sysx On/Off Status "↔" P3 Byte Value Assignment	----- PR1-120 BYTE1-30	----- ----- -----	DUMP, LOAD ON, OFF 0-127, EOX

SETUP

The SETUP program allows the user to configure the general operation of the MIDI Raider footswitch. Use the SETUP program to determine each of the following:

- The operating mode;
- The number of presets within each bank;
- How presets are recalled when changing from bank to bank;
- Assigning MIDI control values as sent globally or per preset;
- Assigning names for MIDI channels;
- The starting preset number for each MIDI channel;
- MIDI filtering options;
- Preset reinitialization;
- Memory reinitialization;
- Selecting a remote title number for use with other Rocktron products

Upon accessing SETUP, the first page of the SETUP program, Operating Mode, will automatically be displayed.

SETUP, Page 1 of 10 - Operating Mode

The first page of the SETUP program determines the current operating mode of the MIDI Raider. The MIDI Raider can be used in any of three different operating modes - BANK, SONG or REMOTE.

When BANK mode is selected, presets are selected by first “banking up” or “banking down” via the “UP” and “DOWN” switches on the MIDI Raider. This selects the Bank, or the first two digits of the preset number (0-12). Depending upon the setting of the BANK STYLE parameter (see SETUP, Page 2), the MIDI Raider will recall the next preset based on the selected bank and either (a) the preset switch last selected from the previous bank, (b) the first preset in the newly selected bank, or (c) will not recall a preset until an additional preset switch is pressed to select the preset number.

In SONG mode, the MIDI Raider allows for presets to be assigned to the preset switches to create a SONG. Songs can then be arranged in a bank order to create a SET.

In REMOTE mode, the MIDI Raider acts as a remote control which can be configured to control future remote compatible Rocktron products.

Accessing SETUP:

(1) To access the SETUP program, press the “2ND” button to activate the secondary button functions.

(2) Press the “SETUP” button. The L.E.D. above the “SETUP” button will flash and the MIDI Raider will display the first page of the SETUP program. Pressing the “⇐⇒” button while in the 2ND mode accesses each successive editing page.

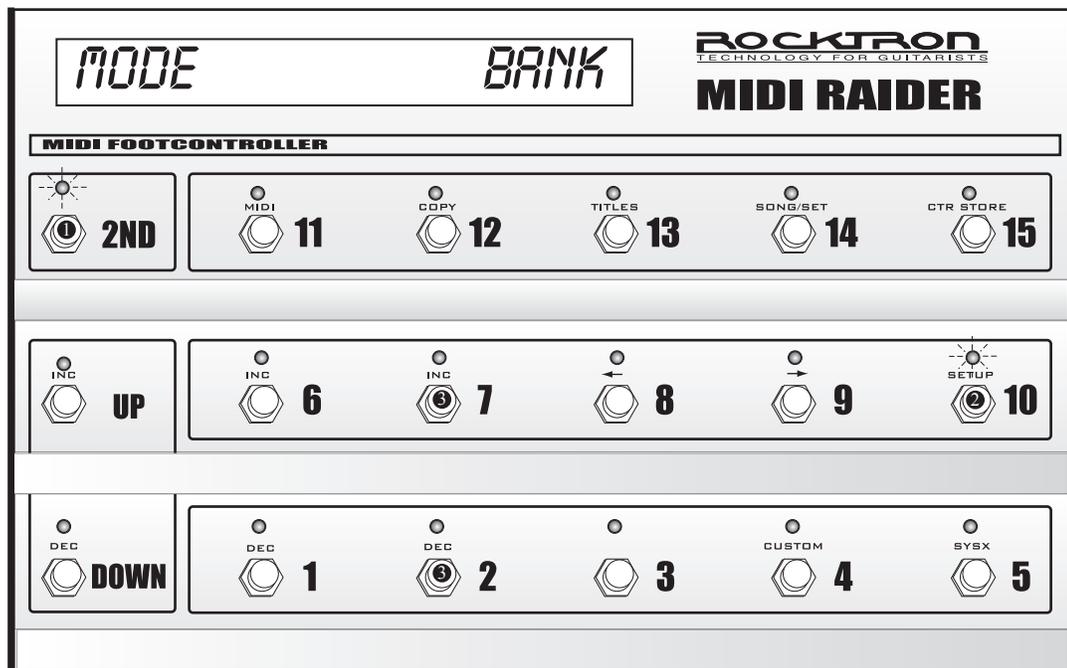
To select the operating mode:

(3) To select a different mode than the one displayed, press the “INC” or “DEC” switches directly below the currently selected option on the right side of the display. The selection will be automatically stored when this page is exited.

Selecting the operating mode

Mode Options

select
BANK, SONG
or REMOTE



When the desired operating mode has been selected:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "⇔" button to access additional SETUP editing pages; or
- (c) press another mode button to edit MIDI Raider features other than SETUP

SETUP, Page 2 of 10 - Bank Size

The second page of the SETUP program allows for the selection of the *Bank Size*, or the number of presets that the MIDI Raider will bank up or down by when the UP or DOWN switches are pressed.

When set to "5", switches 1-5 become preset switches and the unit will bank up or down by 5 presets at a time. When set to "10", switches 1-10 become preset switches and the unit will bank up or down by 10 presets at a time. When set to "15", switches 1-15 become preset switches and the unit banks up or down by 15 presets at a time. When set to "1", the unit banks up or down by one preset at a time and all of the switches become instant access switches.

The Bank Size setting also determines the number of preset switches for each song when operating the MIDI Raider in Song mode.

About Preset and Instant Access Switches:

The MIDI Raider can be configured so that one row (*switches 1-5*), two rows (*switches 1-10*) or three rows (*switches 1-15*) of switches can be dedicated as ***preset*** switches, or switches that are used to select the various presets within each bank. Preset switches send out commands which can reconfigure a whole rack.

Any switches that are not configured as preset switches automatically become ***instant access*** switches - or switches that are used to send specific MIDI controller information on specific MIDI channels. Instant access switches are used to switch in or out a specific effect or function on a MIDI receiving device - thereby giving the user direct control over that specific effect or function without affecting other effects, functions or presets within a rack of devices.

Instant access switches can operate globally or per preset (*see Setup, Page 4*), and each can be configured to operate as a latching, momentary or hold type switch. (*To configure instant access switches, refer to MIDI, Pages 2-4.*)

To Select the Bank Size:

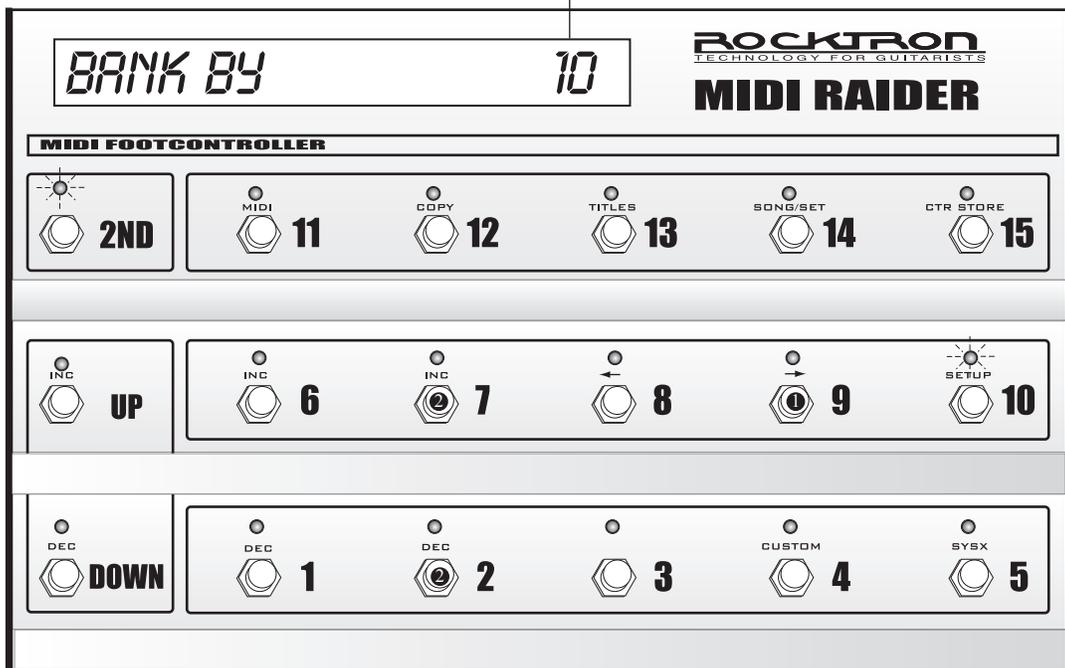
- ❶ With the MIDI Raider still in SETUP mode (2ND and SETUP L.E.D.s lit), press the "⇨" switch to access the second page of the SETUP program, *Bank Size*. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇨" one time.)
- ❷ To select a new bank size, press the "INC" or "DEC" switches directly below the currently selected option to scroll through the available selections.

Selecting the Bank Size

Size Options

select

1, 5, 10 or 15



When the desired bank size has been selected:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇌" button to access additional SETUP editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SETUP.*

SETUP, Page 3 of 10 - Bank Style

The third page of the SETUP program, *Bank Style*, determines how the next preset will be recalled when the MIDI Raider is banked up or down. If the Bank Style parameter is set to "First", the first preset in the new bank will be recalled when the unit is banked up or down. If set to "Curnt", the current preset switch from the previous bank will be recalled. When set to "None", an additional preset switch must be pressed after banking up or down to recall the desired preset.

FIRST - *recalls the first preset in the bank;*

CURNT - *recalls the preset based on the last preset switch pressed;*

NONE - *recalls a preset when a preset switch is pressed*

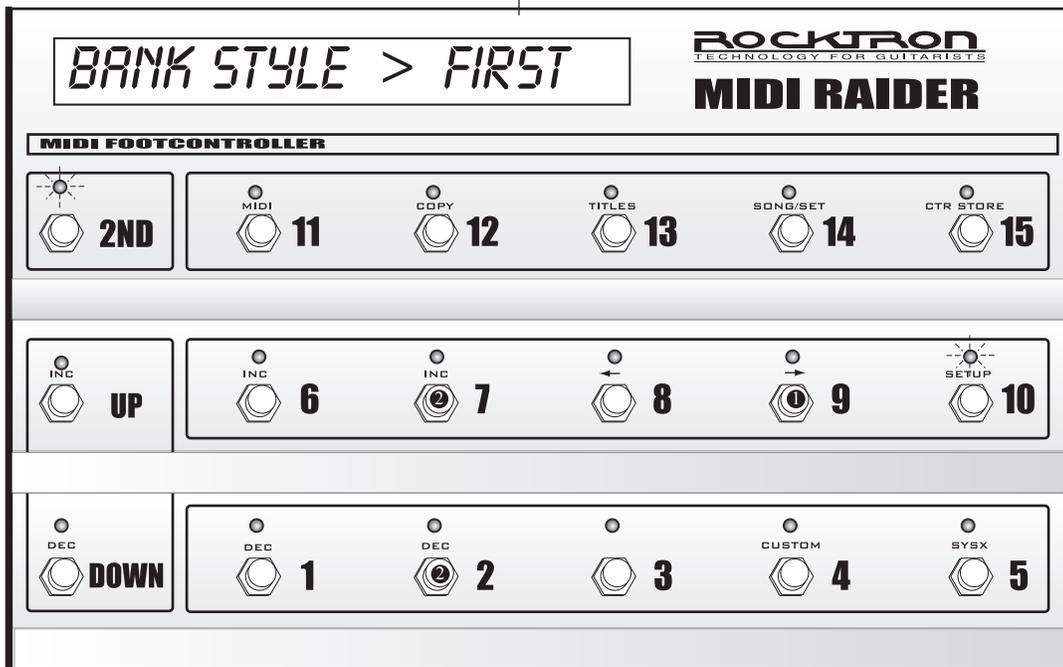
To select the Bank Style:

- ❶ With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the SETUP program, *Bank Style*. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇒" two times.)
- ❷ To select a different Bank Style, press the "INC" or "DEC" switch directly below the currently selected style to scroll through the available options.

Selecting the Bank Style

Bank Style Options

*select
FIRST, CURNT
or NONE*



When the desired bank style has been selected:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇔" button to access additional SETUP editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SETUP.*

SETUP, Page 4 of 10 - Instant access switch operating status

The fourth page of the SETUP program determines whether the controller values sent from the MIDI Raider are global (the same for all presets) or set on a per preset basis. When set to "GLOBAL", the controller channel, control number, "on" value and "off" value that is sent when an instant access switch is pressed is the same for all presets. When set to "PER PR", the controller channel, control number, "on" value and "off" value that is sent when an instant access switch is pressed can be programmed for each individual preset.



Note:

When scrolling through the switches to program, only those switches which are configured as instant access switches can be accessed.

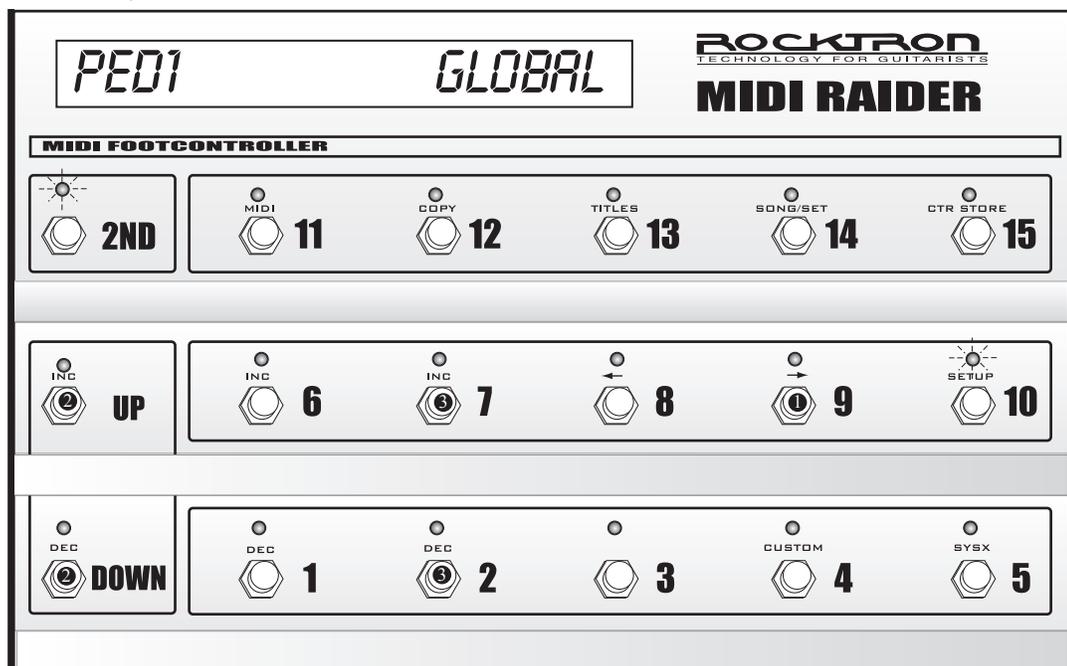
To change the instant access switch operating status:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the SETUP program. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇒" three times.)
- (2) To select a specific instant access switch, use the "INC" and "DEC" switches directly below the currently selected switch. The current setting for each switch or pedal will be displayed.
- (3) To select whether the displayed switch is configured as "GLOBAL" or "PER PR", use the "INC" and "DEC" switches directly below the currently displayed option.

Selecting the Instant access operating status

**Switches to
Program**
select
PED1-2
SW1-15

**Operating
Type**
select
GLOBAL or
PER PR



When the desired control value status has been selected:

- (a) *press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) *press the “⇌” button to access additional SETUP editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SETUP.*

SETUP, Page 5 of 10 - Naming MIDI Channels

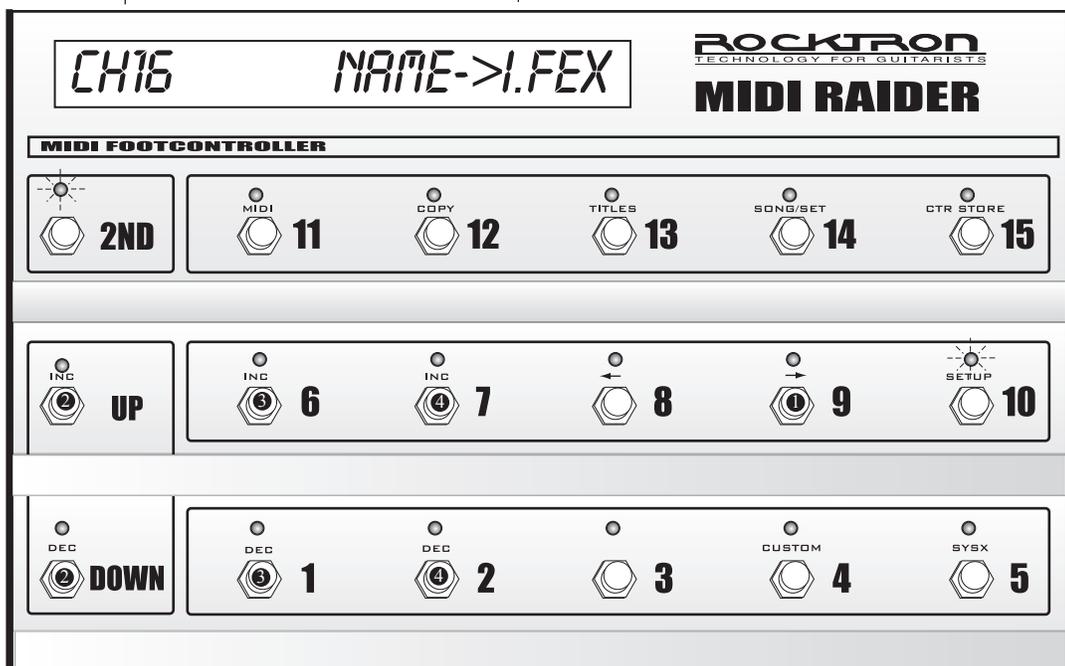
The fifth page of the SETUP program allows for custom 4 character abbreviations to be shown in place of MIDI channels and instant access switches during editing. Assigning a name to each MIDI channel can make it considerably easier to remember which MIDI devices are assigned to particular MIDI channels. This is also true of instant access switches.

To assign a name to a MIDI channel or instant access switch:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the fifth page of the SETUP program. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇒" four times.)
- (2) To select a MIDI channel or switch to name, use the "INC" and "DEC" switches directly below the currently selected MIDI channel/switch to scroll through the available selections.
- (3) Use the "INC" and "DEC" switches directly below the center of the display to select the desired character for the current position.
- (4) Use the "INC" and "DEC" switches directly below the right side of the display to advance to the next character position to edit.

Naming MIDI Channels and Instant Access Switches

<u>Channel/Switch to Name</u>	<u>Channel Name</u>
<i>select</i>	<i>select</i>
CHI-16	A-Z
SW1-15	1-9
PED1, PED2	



When the desired channels and switches have been named:

- press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or
- press the “⇒” button to access additional SETUP editing pages; or
- press another mode button to edit MIDI Raider features other than SETUP.

SETUP, Page 6 of 10 - Starting Preset Number

Some MIDI devices may use “0” as the first preset number of each MIDI channel, while others may use “1”. This page of the SETUP program allows for either “0” or “1” to be selected as the starting preset number for each MIDI channel so that the preset number displayed by the MIDI Raider matches the preset number displayed by the MIDI device.

To select the starting preset number:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the SETUP program, *Starting Preset Number*. (If the MIDI Raider is not already in SETUP mode, press “2ND”, then “SETUP”, followed by “⇒” five times.)
- (2) To select a MIDI channel, use the "INC" and "DEC" switches directly below the currently displayed MIDI channel (the MIDI Raider displays the name of the channel given).
- (3) To change the starting preset for the displayed MIDI channel, use the "INC" and "DEC" switches directly below the currently displayed starting preset.

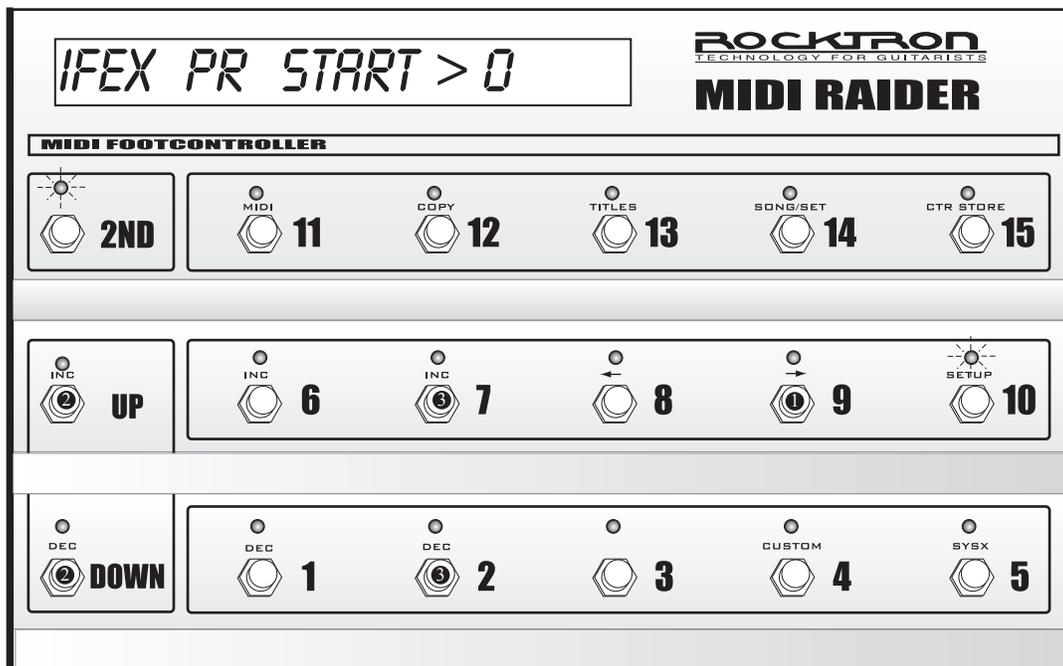
Selecting the Starting Preset Number

Selected Channel

select
CH1-16

Starting Preset Number

select
0 or 1



When the Starting Preset Number has been selected for each channel:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "⇔" button to access additional SETUP editing pages; or
- (c) press another mode button to edit MIDI Raider features other than SETUP.

SETUP, Page 7 of 10 - MIDI Filtering

The seventh page of the SETUP program, *MIDI Filtering*, allows for incoming MIDI signals to either be merged with the footswitch's MIDI information or selectively blocked. Filtering may be done either by message type or by MIDI channel.

To change the MIDI filtering status:

- ❶ With the 2ND L.E.D. still lit, press the "⇔" switch to access the seventh page of the SETUP program. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇔" six times.)
- ❷ To select a MIDI channel or message type to edit, use the "INC" and "DEC" switches directly below the MIDI channel currently displayed.
- ❸ To change the status of the MIDI channel or message type currently displayed, use the "INC" and "DEC" switches directly below the displayed status.

MIDI Message Abbreviations:

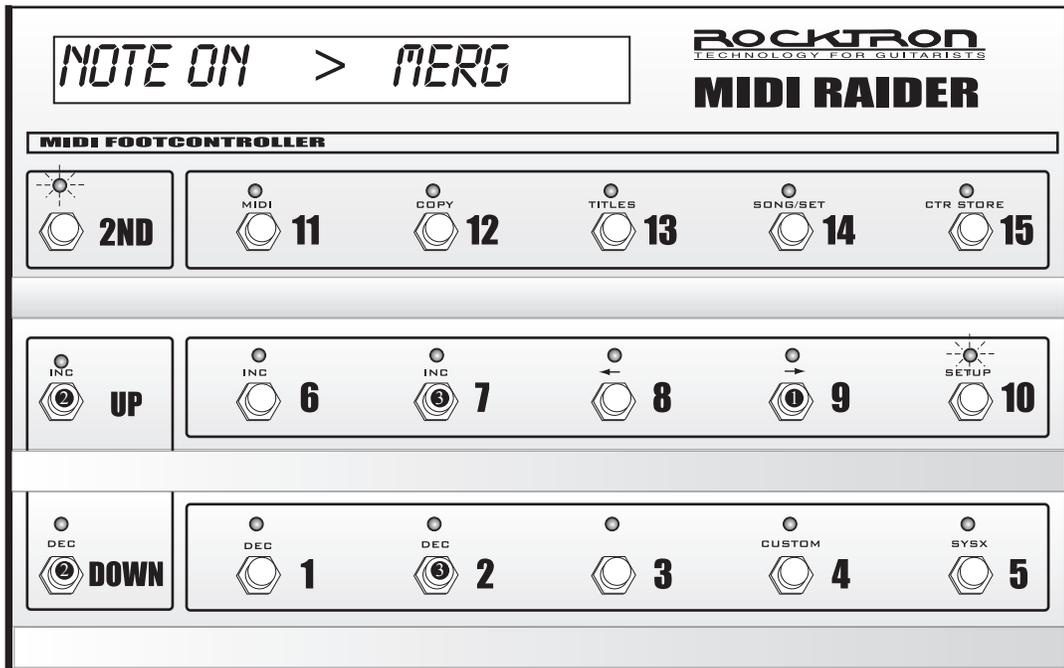
Some of the MIDI messages displayed in the MIDI Filtering page are abbreviated to fit on the screen. Here is a list of those that are abbreviated.

KEY PRESSURE	(Key Pressure)
CTR CHANGE	(Control Change)
PROG CHANGE	(Program Change)
CHAN PRESUR	(Channel Pressure)
SYTEM EXCLS	(System Exclusive)
MTC	(MIDI Time Code)
SONG PP	(Song Position Pointer)
TUNE REQEST	(Tune Request)
TIMNG CLOCK	(Timing Clock)
ACTIVE SENSE	(Active Sensing)
SYSTEM RST	(System Reset)

Selecting MIDI Filtering Options

MIDI Message
select
All MIDI
Commands or CH1-16

Thru Status
select
BLOC or MERG



When the desired MIDI Filtering options have been selected:

- (a) *press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) *press the “⇌” button to access additional SETUP editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SETUP.*

SETUP, Page 8 of 10 - Preset Reinitialization

The eighth page of the SETUP program, *Preset Reinitialization*, allows for the restoration of an individual preset to its original factory settings. This procedure will erase any modifications that the user has made to a specific preset and return it to its original condition.



WARNING!

The Preset Reinitialization feature will erase all data for the selected preset and return it to its original condition as shipped from the factory.

Once the STORE switch is pressed, all erased data will be unrecoverable!

To reinitialize an individual preset:

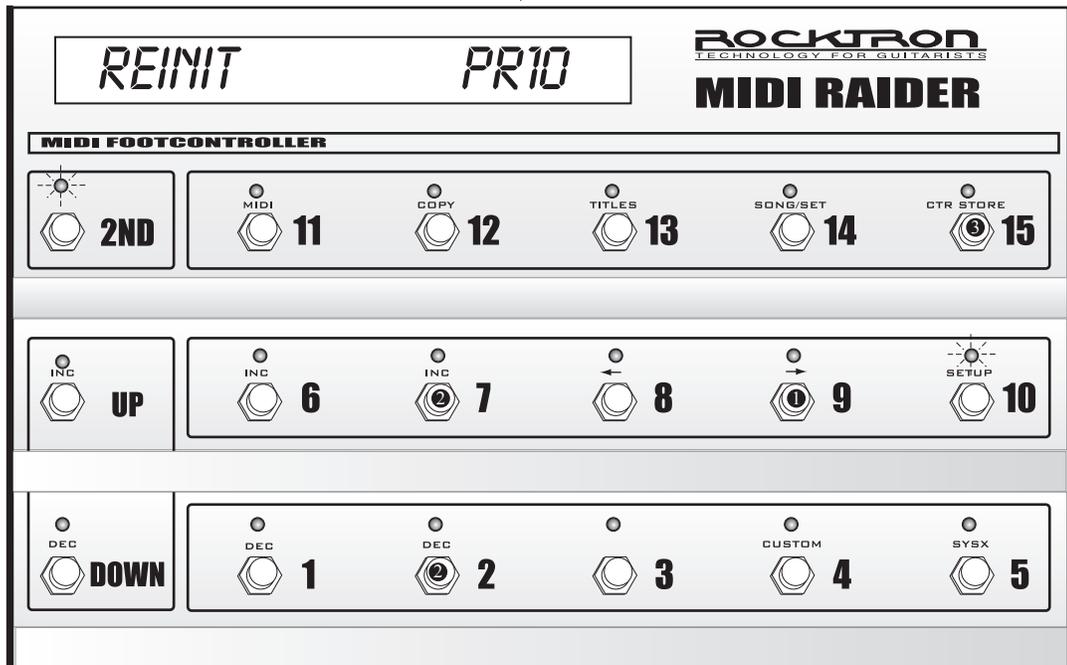
- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the eighth page of the SETUP program. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇔" seven times.)
- (2) To select the preset to be reinitialized, use the "INC" and "DEC" switches directly below the preset currently displayed.

! *Pressing the STORE switch at this time will erase the current settings for the displayed preset and return them to their original condition as shipped from the factory. All erased data will be unrecoverable.*
- (3) Once the desired preset is selected, press the "STORE" switch to reinitialize the selected preset.

Reinitializing a Preset

Preset to Reinitialize

*select
PR1-120*



When the desired presets have been reinitialized:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇒" button to access additional SETUP editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SETUP.*



WARNING!

The Memory Reinitialization feature will erase the entire memory of the MIDI Raider and return it to its original condition as shipped from the factory.

Once the STORE button is pressed, all erased data will be unrecoverable!

SETUP, Page 9 of 10 - Memory Reinitialization (All Presets)

The ninth page of the SETUP program, *Memory Reinitialization*, allows for the restoration of the entire MIDI Raider memory to its original factory settings. This procedure will erase all modifications that the user has made to the MIDI Raider since it was shipped from Rocktron. The code number "230" must be selected to activate the initialization process.

To Reinitialize the MIDI Raider memory:

(1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the ninth page of the SETUP program, *Memory Reinitialization*. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇔" eight times.)

(2) To access the proper code number to activate the reinitialization, use the "INC" and "DEC" switches directly below the code number currently displayed.

! *Pressing the STORE switch at this time will erase the MIDI Raider and return it to its original condition as shipped from the factory. All erased data will be unrecoverable.*

(3) Once the proper code number ("230") is selected, press the "STORE" switch to reinitialize the entire MIDI Raider memory.

(*) If desired, a code of "231" can be entered to reinitialize only the MIDI Raider controller information for the instant access switches and pedals. Entering a code of "231" will reinitialize only the following information:

*Global/Per Preset status;
MIDI channel;
Control number;
On value;
Off value;
Switch type status;
On/off status*

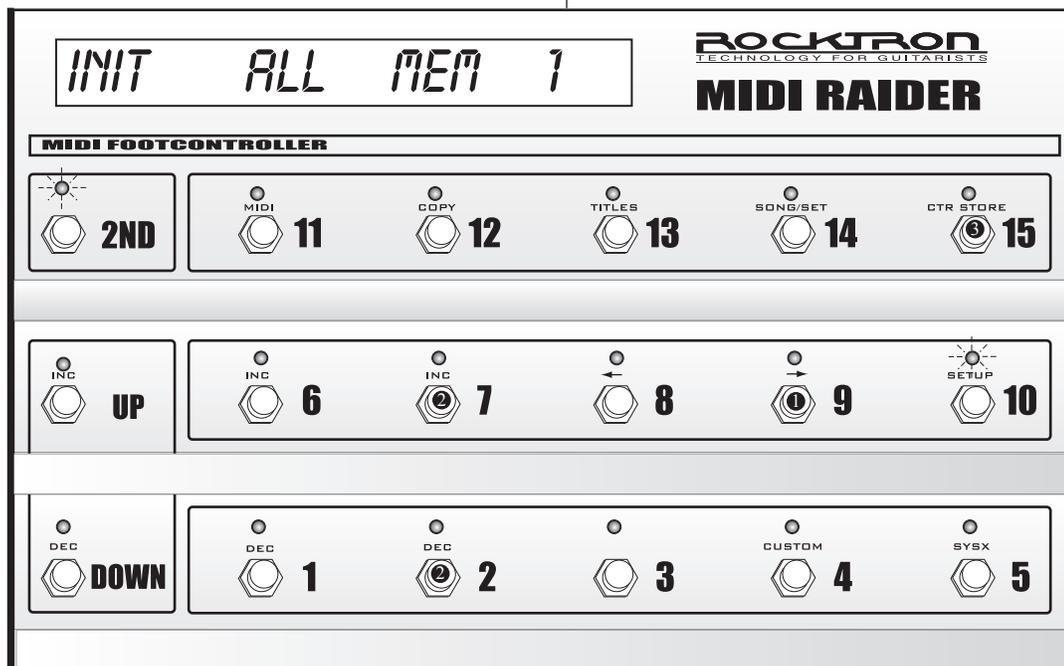
Reinitializing the MIDI Raider

Renitialization Code Number

select

0-255

*(“230” must be selected to activate
the reinitialization process)*



When the MIDI Raider has been reinitialized:

- (a) press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) press the “⇨” button to access additional SETUP editing pages; or*
- (c) press another mode button to edit MIDI Raider features other than SETUP.*

SETUP, Page 10 of 10 - Remote Title Number

Remote mode notes:

When operating the MIDI Raider in remote mode with a Rocktron rack unit, changes made from the rack unit itself will be reflected on the footswitch. For example, if button 6 on the MIDI Raider is configured to control the Delay In/Out parameter on the rack unit, switching out the delay from the rack unit instead of the MIDI Raider will cause the L.E.D. for button 6 on the footswitch to turn off.

In addition, when a preset is changed from the rack unit, the rack sends the status of its mapped parameters to the MIDI Raider, causing the corresponding L.E.D.s to turn on or off to reflect the proper status.

In Remote mode, control changes are not sent when an MIDI Raider preset switch is pressed, as the status of the instant access switches will be determined by the rack unit.

The tenth page of the SETUP program is *Remote Title Number*. By matching the remote title number with that of another Rocktron product, the titles from the other Rocktron unit will be transmitted to the MIDI Raider and displayed when operating in REMOTE mode.

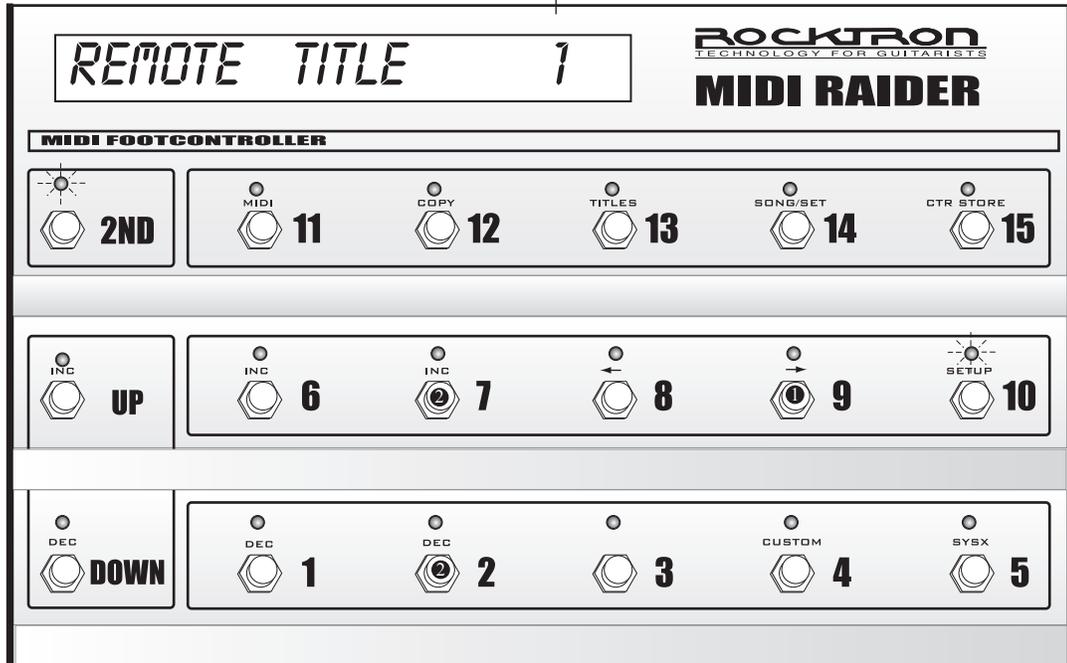
To select a remote title number:

- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the tenth page of the SETUP program, *Remote Title Number*. (If the MIDI Raider is not already in SETUP mode, press "2ND", then "SETUP", followed by "⇔" nine times.)
- (2) To select a Remote Title number, use the "INC" and "DEC" switches directly below the number currently displayed.

Selecting a Remote Title Number

Remote Title
Number

select
0-255



When the Remote Title Number has been selected:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "←" button to access previous *SETUP* editing pages; or
- (c) press another mode button to edit MIDI Raider features other than *SETUP*.

MIDI

The *MIDI* program provides access to the MIDI features of the MIDI Raider footswitch. Use the MIDI program to assign each of the following:

Programmable patch changes;
Control numbers and channels to instant access switches and pedals;
Control values to instant access switches and pedals;
Instant access switch types;
Program change status;
Program mapping; and,
MIDI Raider MIDI receive channel

Upon accessing MIDI, the first page of the MIDI program, *Programmable Patch Changes*, will automatically be displayed.

MIDI, Page 1 of 7 - Programmable Patch Changes

The first page of the MIDI program, *Programmable Patch Changes*, allows for the assignment of up to 16 programmable patch changes for each MIDI Raider preset. Programmable patch changes are sent when an MIDI Raider preset is recalled to aid in selecting the desired preset on a remote MIDI receiving unit. This page of the MIDI program allows for the assignment of program changes to MIDI Raider presets. The programmable patch changes are arranged by patch number.

To access MIDI:

- ❶ To access MIDI, press the "2ND" button to activate the secondary button functions.
- ❷ Press the "MIDI" button. The L.E.D. above the "MIDI" button will flash and the MIDI Raider will display the first page of the MIDI program. Pressing the "⇌" button while in the 2ND mode accesses each successive page.

To assign programmable patch changes:

- ❸ Use the "INC" and "DEC" switches directly below the displayed preset number to select the preset to which patch changes will be assigned.
- ❹ Use the "INC" and "DEC" switches directly below the displayed MIDI channel to select the MIDI channel to send a particular program change on. Note: If names have been assigned to MIDI channels (*as described in SETUP, Page 5*), then the name of each channel will be displayed, instead of the channel number.
- ❺ Use the "INC" and "DEC" switches directly below the currently displayed patch change to select the patch change that is to take place on the given MIDI channel for the selected preset. MIDI program changes are sent when the preset is recalled.

Repeat steps ❸ through ❺ for each of the desired presets.

Note:

If the starting preset number is set to "0" (as described in SETUP, page 6), then program changes 0-127 can be accessed.
If the starting preset number is set to "1", then program changes 1-128 can be accessed.

Assigning Programmable Patch Changes

Preset Number

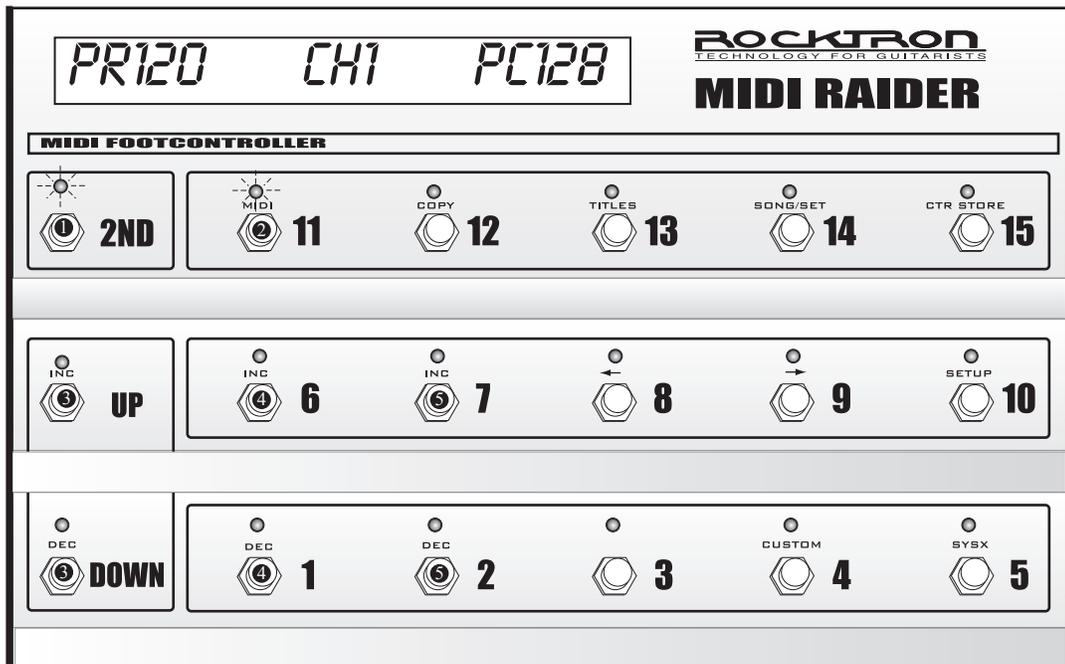
select PR1-120

MIDI Channel

*select CH1-16
(or channel name)*

Program Change

*select 1-128, OFF
(or 0-127, OFF)*



When the desired program changes have been assigned:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇐⇒" button to access additional MIDI editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than MIDI.*

MIDI, Page 2 of 7 - Control Number Assignment

The second page of the MIDI program, *Control Number Assignment*, allows for control numbers and MIDI channels to be assigned to instant access switches and pedals.

This feature allows for a pedal or instant access switch to control a specific parameter of another MIDI device. For example, if the Gain parameter of a Rocktron Chameleon™ preamp was mapped to controller number 8, assigning the P1 (Pedal 1) parameter of the MIDI Raider to controller 8 on the same MIDI channel would allow for an expression pedal connected to the PEDAL 1 jack on the MIDI Raider to continuously control the gain level of the Chameleon™. In addition, multiple parameters assigned to the same controller will allow you to control all of the assigned parameters simultaneously. It is important that the control numbers and MIDI channels match between the parameters to be controlled on the outboard MIDI device and the pedal or instant access switch on the MIDI Raider.

Note:

When operating in BANK or SONG mode, the status of each instant access switch is stored in the MIDI Raider.

Similarly, assigning a control number to an instant access switch will also allow you to control a specific parameter of another MIDI device. Once a parameter (or multiple parameters) of another MIDI device is mapped to the same controller number assigned to an MIDI Raider instant access switch, each time the instant access switch is pressed, an “on” or “off” controller value will be sent from the MIDI Raider and toggle between two parameter values. The parameter values that are toggled between are determined by the *control value* sent each time the instant access switch is pressed (*see MIDI, - Control Number Assignment*). If specific control values are not assigned by the user, pressing the instant access switch will toggle between the highest and lowest values for that parameter.

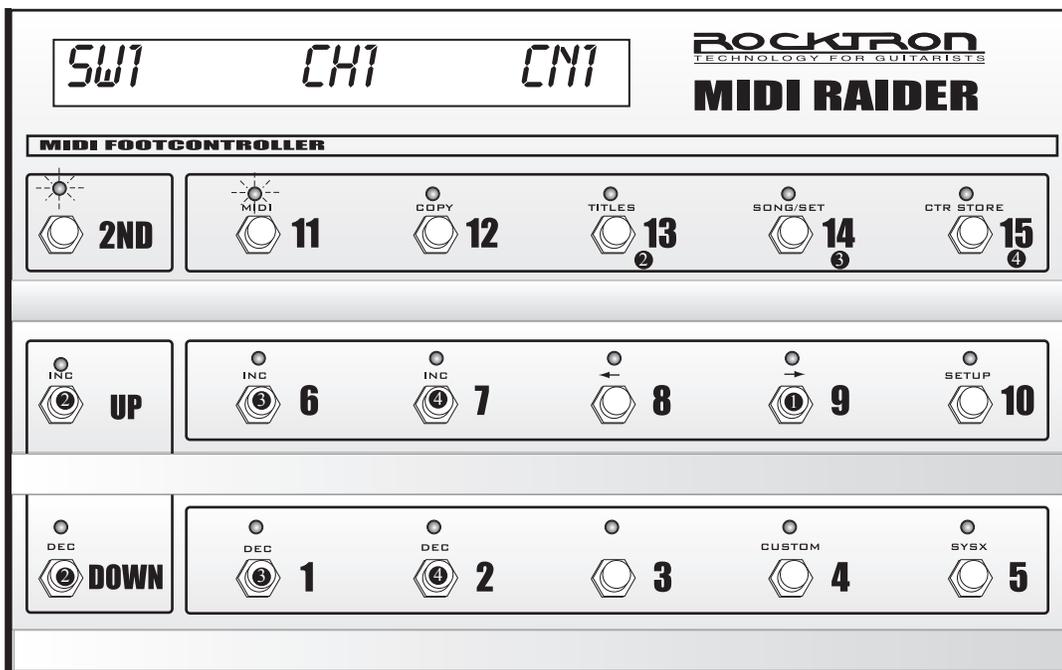
To assign control numbers to switches/pedals:

- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the second page of the MIDI program, *Control Number Assignment*. (If the MIDI Raider is not already in the MIDI editing mode, press “2ND”, then “MIDI” followed by “⇔” once.)
- (2) Use the "INC" and "DEC" switches directly below the displayed instant access switch to select the switch or pedal to which control numbers and channels will be assigned. (Only those switches which are configured as instant access switches will be accessible.)
- (3) Use the "INC" and "DEC" switches directly below the displayed MIDI channel to select the MIDI channel to be assigned to the selected switch or pedal.
- (4) Use the "INC" and "DEC" switches directly below the currently displayed control number to select the control number to be assigned to the selected switch/pedal.

Repeat steps 2 through 4 for each of the instant access switches/pedals.

Assigning Control Numbers to Pedals and Instant Access Switches

<u>Switch/Pedal Number</u>	<u>MIDI Channel</u>	<u>Control Number</u>
<i>select SW1-15, P1, P2 (or by name)</i>	<i>select CH1-16 (or by name)</i>	<i>select 0-120, OFF</i>



When the desired control numbers have been assigned:

- (a) *press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) *press the “⇌” button to access additional MIDI editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than MIDI.*

MIDI, Page 3 of 7 - Control Value Assignment

The third page of the MIDI program, *Control Value Assignment*, allows for “on” and “off” controller values to be assigned to instant access switches and pedals. Control changes can be sent when an instant access switch is pressed or a controller pedal is moved to aid in selecting a desired control value.

When controlling specific parameters of other MIDI devices, the “on” and “off” control values assigned to an instant access switch determine the high and low parameter values that will be toggled between on the MIDI receiving device.

When assigning control values to a pedal, the “on” and “off” values assigned determine the range over which the pedal will provide continuous control. Typically, the “on” value is the higher value and determines the control value sent when the pedal is set at the toe position. The “off” value is generally the lower value and determines the control value sent when the pedal is set at the heel position. However, these values can also be reversed so that the toe position of the pedal provides the lower value and the heel position provides the higher value.

To assign control values to switches and pedals:

- ❶ With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the MIDI program, *Control Value Assignment*. (If the MIDI Raider is not already in the MIDI editing mode, press “2ND”, then “MIDI” followed by “⇒” two times.)
- ❷ Use the "INC" and "DEC" switches directly below the displayed instant access switch/pedal to select the switch or pedal to which control values will be assigned. (Only those switches which are configured as instant access switches will be accessible.)
- ❸ Use the "INC" and "DEC" switches directly below the displayed ON value (center of the display) to select the desired ON value to be assigned to the selected instant access switch/pedal. This is the MIDI control change value sent when the displayed switch is pressed or turned "on" (L.E.D. on).
- ❹ Use the "INC" and "DEC" switches directly below the currently displayed OFF value (right side of the display) to select the desired OFF value to be assigned to the selected instant access switch/pedal. This is the MIDI control change value sent when the displayed switch is pressed again or turned "off" (L.E.D. off).

Repeat steps ❷ through ❹ for each of the instant access switches/pedals



Note:

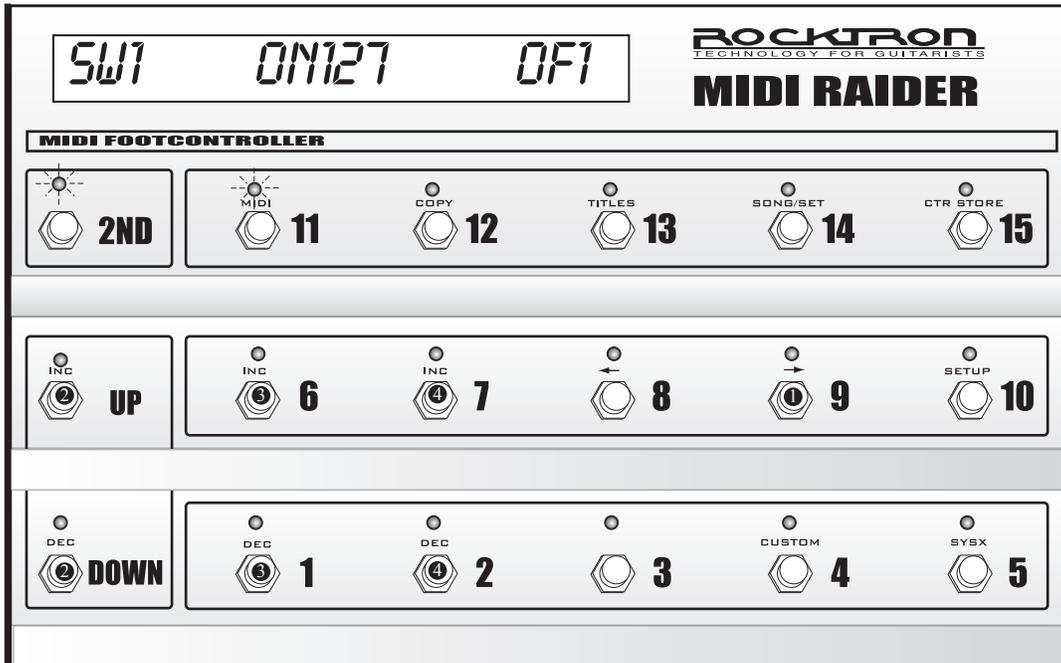
When the pedals P1 and P2 are displayed, the Control Value Assignment page sets the maximum and minimum values for the movement of the pedal.

Also:

If Pedal 1 is moved while displaying the PED1 on/off values, the display will show the control values as they are sent.

Assigning Control Values to Instant Access Switches

Switch/Pedal <u>Number</u>	<u>ON</u> <u>Value</u>	<u>OFF</u> <u>Value</u>
<i>select</i> SW1-15, P1, P2	<i>select</i> 0-127, OFF	<i>select</i> 0-127, OFF



When the desired control values have been assigned:

- (a) *press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) *press the “⇔” button to access additional MIDI editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than MIDI.*

MIDI, Page 4 of 7 - Switch Type

The fourth page of the MIDI program, *Switch Type*, determines how each instant access switch will operate. This feature allows for each switch to be assigned as either a Latching, Momentary or Hold switch, and is global for all presets.

- A *LATCHING* switch type sends the “on” control value when the switch is pressed and turns the L.E.D. on. Pressing the switch a second time sends the “off” control value and turns the L.E.D. off. When changing presets, the “on/off” status stored for the preset is always sent.
- A *MOMENTARY* switch type sends the “on” control value when the switch is pressed, turning the L.E.D. on, and the “off” control when the switch is released (the L.E.D. remains on). The L.E.D. changes status once each time the switch is pressed and released. When changing presets, if the new switch status is different than the current status, the “on” value is sent followed by the “off” value 5 milliseconds later. The MIDI control change that is associated with this switch is sent only if the switch status changes.
- A *HOLD* switch type is the same as a momentary switch type, except that the L.E.D. turns on when the switch is pressed and turns off when the switch is released. When changing presets, switches assigned as HOLD switches do not send a MIDI message.

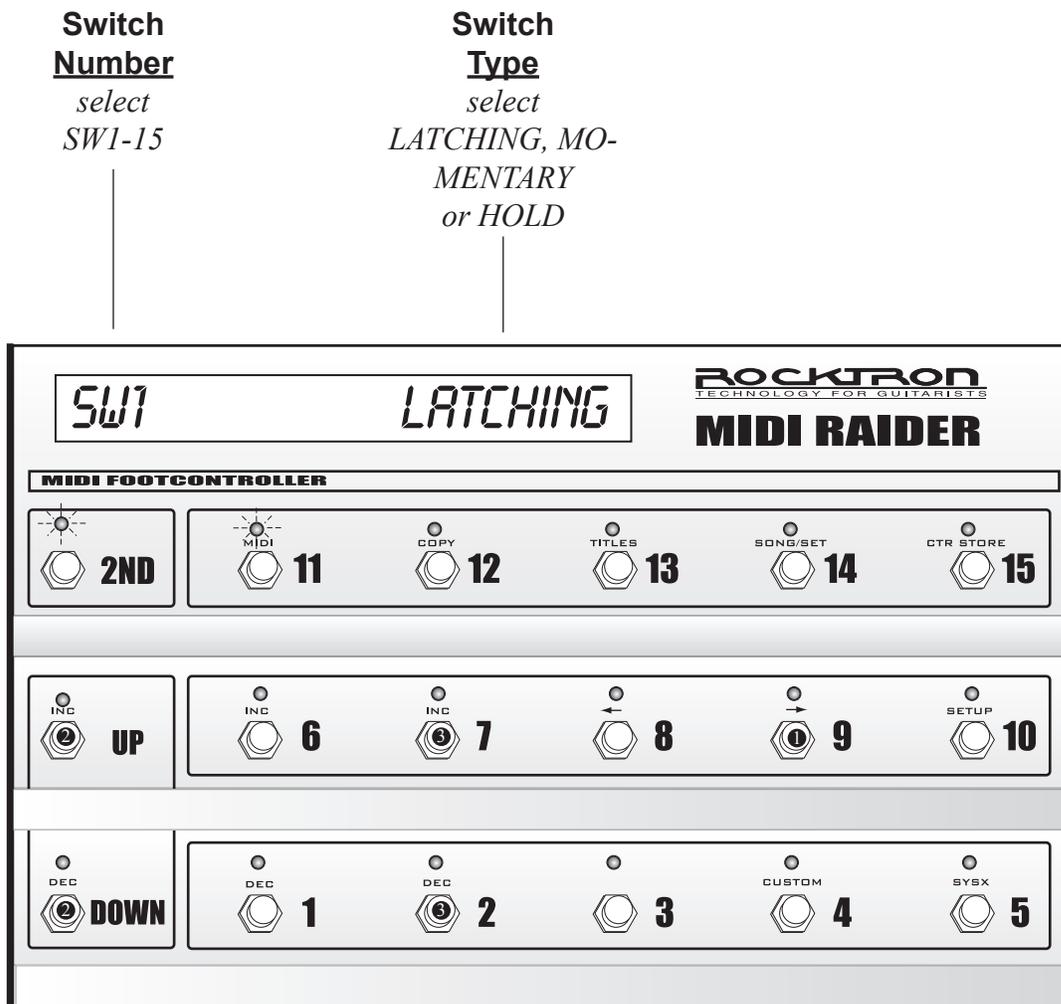
If the switches have been assigned names (*as described in SETUP, Page 5*), the names of the instant access switches will be displayed instead of the switch numbers. Only those switches which are configured as instant access switches will be accessible.

To assign the type of each instant access switch:

- ➊ With the 2ND L.E.D. still lit, press the "⇌" switch to access the next page of the MIDI program, *Switch Type*. (If the MIDI Raider is not already in the MIDI editing mode, press “2ND”, then “MIDI”, followed by “⇌” three times.)
- ➋ Use the "INC" and "DEC" switches directly below the displayed instant access switch to select the switch to be assigned a switch type.
- ➌ Use the "INC" and "DEC" switches directly below the displayed switch type to select a type for the selected switch.

Repeat steps ➋ and ➌ for each of the instant access switches/pedals

Selecting Switch Types for Instant Access Switches



When the desired switch types have been assigned:

- (a) press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or
- (b) press the “⇒” button to access additional MIDI editing pages; or
- (c) press another mode button to edit MIDI Raider features other than MIDI.

MIDI, Page 5 of 7 - Program Change Status

The fifth page of the MIDI program, *Program Change Status*, determines whether or not the MIDI Raider will respond to incoming program changes, as well as whether to map the incoming program changes to a preset.

If the MIDI Raider is set to respond to incoming program changes, it will send out information associated with each preset just as if the buttons on the MIDI Raider were pressed. (*This feature is operable only when the MIDI Raider is operating in BANK mode - see SETUP, Page 1*).

- When set to *OFF*, the MIDI Raider will not respond to incoming program changes.
- When set to *ON*, the MIDI Raider responds to incoming program changes without mapping.
- When set to *MAP*, the MIDI Raider responds to incoming program changes and maps any assigned patch changes (*see MIDI, page 6*).

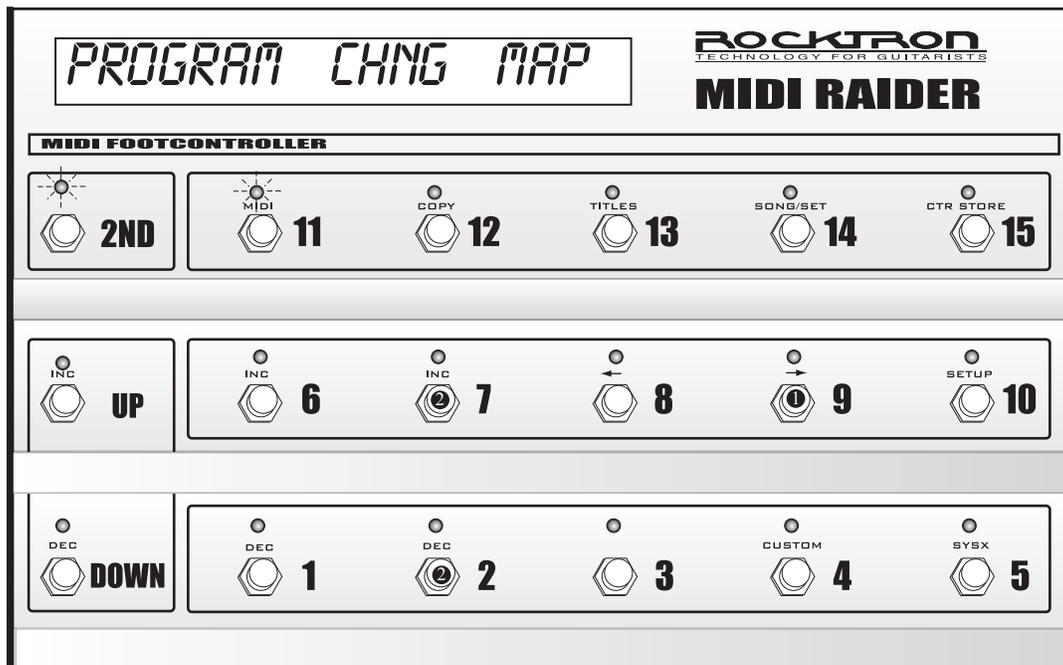
To set the program change status:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the MIDI program, *Program Change Status*. (If the MIDI Raider is not already in the MIDI editing mode, press "2ND", then "MIDI", followed by "⇒" four times.)
- (2) Use the "INC" and "DEC" switches directly below the displayed Program Change Status to select the desired status.

Selecting Program Change Status

Program Change Status

*select
OFF, ON or
MAP*



When the desired program change status has been assigned:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇌" button to access additional MIDI editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than MIDI.*

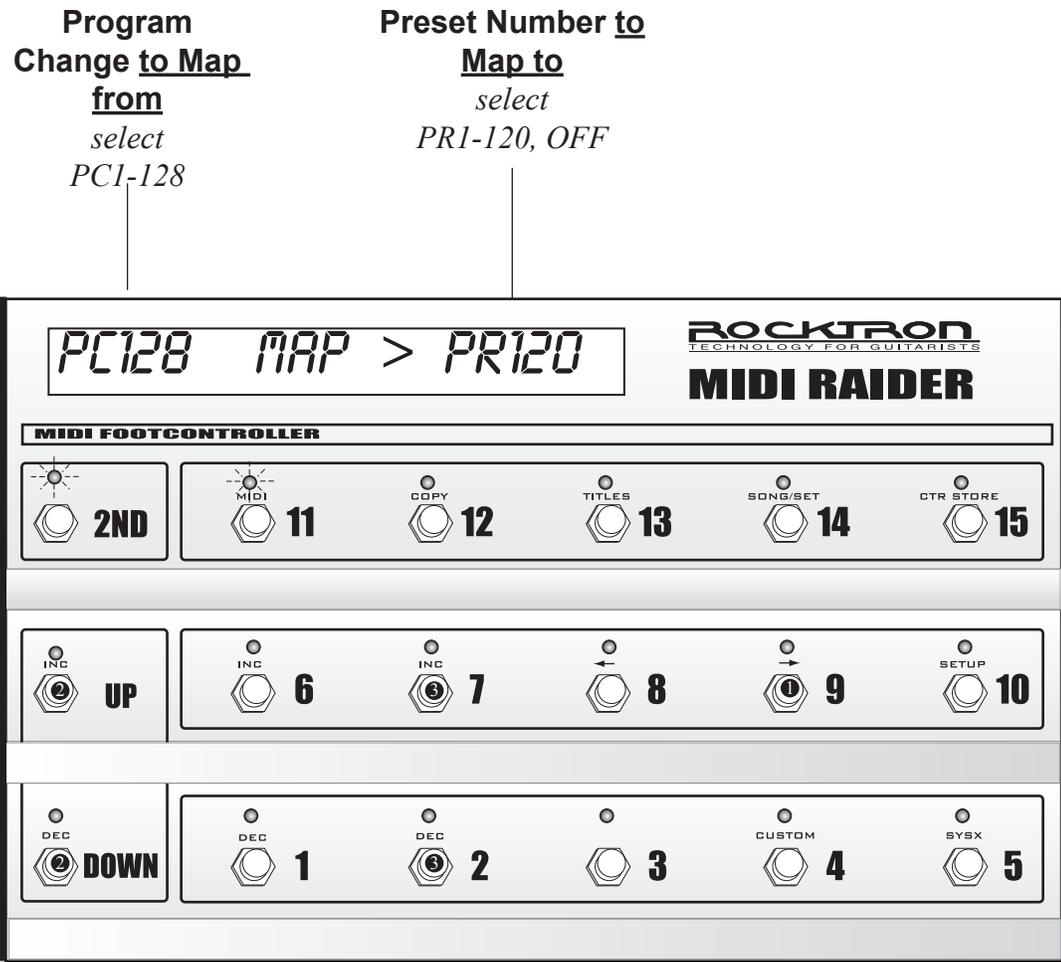
MIDI, Page 6 of 7 - Program Mapping

This page allows for incoming program changes to be mapped to MIDI Raider presets when the Program Change Status is set to "MAP" (*see MIDI, Page5*). This feature is only available when operating the MIDI Raider in Bank Mode.

To assign the program mapping status:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the MIDI program, *Program Mapping*. (If the MIDI Raider is not already in the MIDI editing mode, press "2ND", then "MIDI", followed by "⇒" five times.)
- (2) Use the "INC" and "DEC" switches directly below the displayed Program Change number to select the desired Program Change number to be mapped to an MIDI Raider preset.
- (3) Use the "INC" and "DEC" switches directly below the displayed preset number to select the MIDI Raider preset that the displayed program change number will be mapped to.

Mapping Program Changes to MIDI Raider Presets



When the desired program mapping status has been assigned:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "⇌" button to access additional MIDI editing pages; or
- (c) press another mode button to edit MIDI Raider features other than MIDI.

MIDI, Page 7 of 7 - MIDI Receive Channel

The seventh page of the MIDI program, *MIDI Receive Channel*, determines the MIDI channel that incoming program changes must be on for the MIDI Raider to respond. (*This feature is operable only in Bank Mode - see SETUP, Page 1*).

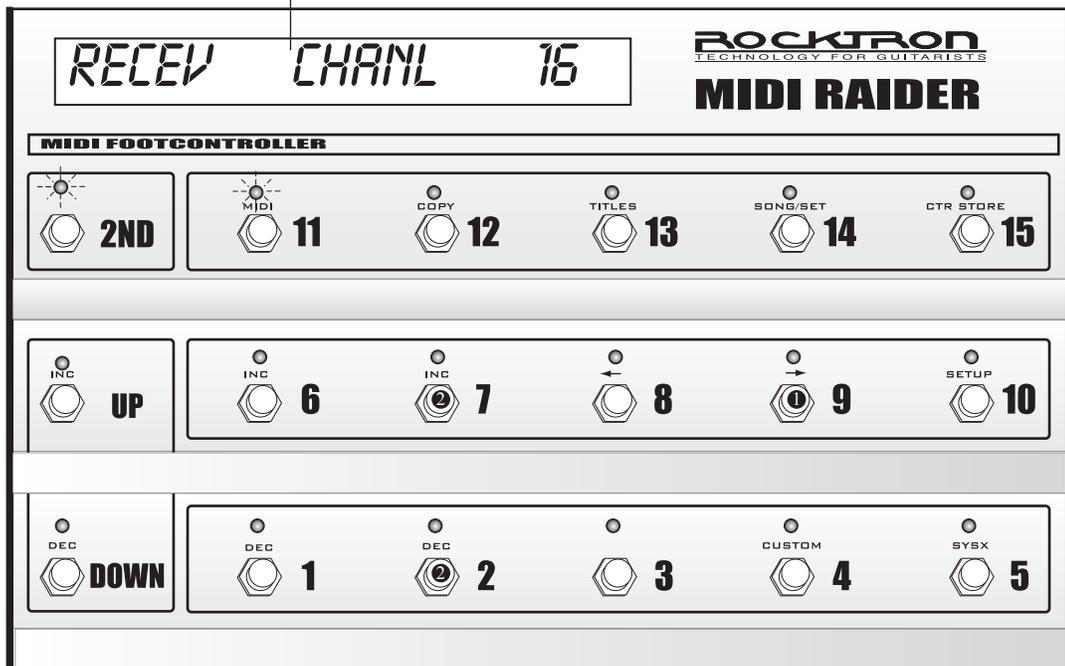
To define the MIDI receive channel:

- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the next page of the MIDI program, *MIDI Receive Channel*. (If the MIDI Raider is not already in the MIDI editing mode, press "2ND", then "MIDI", followed by "⇔" six times.)
- (2) Use the "INC" and "DEC" switches directly below the displayed MIDI Receive channel to select the MIDI channel that the MIDI Raider is to receive MIDI commands on.

Selecting the MIDI Receive Channel

MIDI Receive Channel

select
1-16, OMNI



When the desired MIDI receive channel has been assigned:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "←" button to access previous MIDI editing pages; or
- (c) press another mode button to edit MIDI Raider features other than MIDI.

COPY

The *COPY* program allows for presets, banks, songs and sets to be copied from one location to another.

COPY, Page 1 of 4 - Preset Copy

The first page of the *COPY* program, *Preset Copy*, allows for a single preset to be copied from one preset location to another.

Preset copy copies the following information:

Preset Title;
Programmable Patch Changes;
Per Preset Control Information;
Instant Access Switch Status;;
Custom MIDI Strings; and
System Exclusive Information

- (1) To access *COPY*, press the "2ND" button to activate the secondary button functions.
- (2) Press the "COPY" button. The L.E.D. above the "COPY" button will flash and the MIDI Raider will display the first page of the *COPY* program. Pressing the "⇒" button while in the 2ND mode accesses each successive page.

To copy a preset to another preset location:

- (3) Use the "INC" and "DEC" switches directly below the displayed preset to be copied to select the desired preset.
- (4) Use the "INC" and "DEC" switches directly below the displayed preset destination to select the desired preset location to copy to.
- (5) Press the "CTR STORE" button to initiate the copy. "COPY-ING" is momentarily displayed before returning to the Preset Copy screen.

To Copy Presets

**Preset to
be copied**

select
PR1-120

**Preset location
to copy to**

select
PR1-120



When the desired presets have been copied:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇌" button to access additional COPY editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than COPY.*

COPY, Page 2 of 4 - Bank Copy

The second page of the COPY program, *Bank Copy*, allows for an entire bank of presets to be copied from one bank location to another.



Note:

If the MIDI Raider is configured to bank by one preset at a time (see SETUP, Page 2), this page is not available.

When the MIDI Raider is configured to bank by 5 presets at a time:

- *Bank Copy will copy 5 presets*
- *Bank 1 = Presets 1-5*
Bank 2 = Presets 6-10
Bank 3 = Presets 11-15
...and so on

If configured to bank by 10 presets at a time:

- *Bank Copy will copy 10 presets*
- *Bank 1 = Presets 1-10*
Bank 2 = Presets 11-20
Bank 3 = Presets 21-30
...and so on

If configured to bank by 15 presets at a time:

- *Bank Copy will copy 15 presets*
- *Bank 1 = Presets 1-15*
Bank 2 = Presets 16-30
Bank 3 = Presets 31-45
...and so on

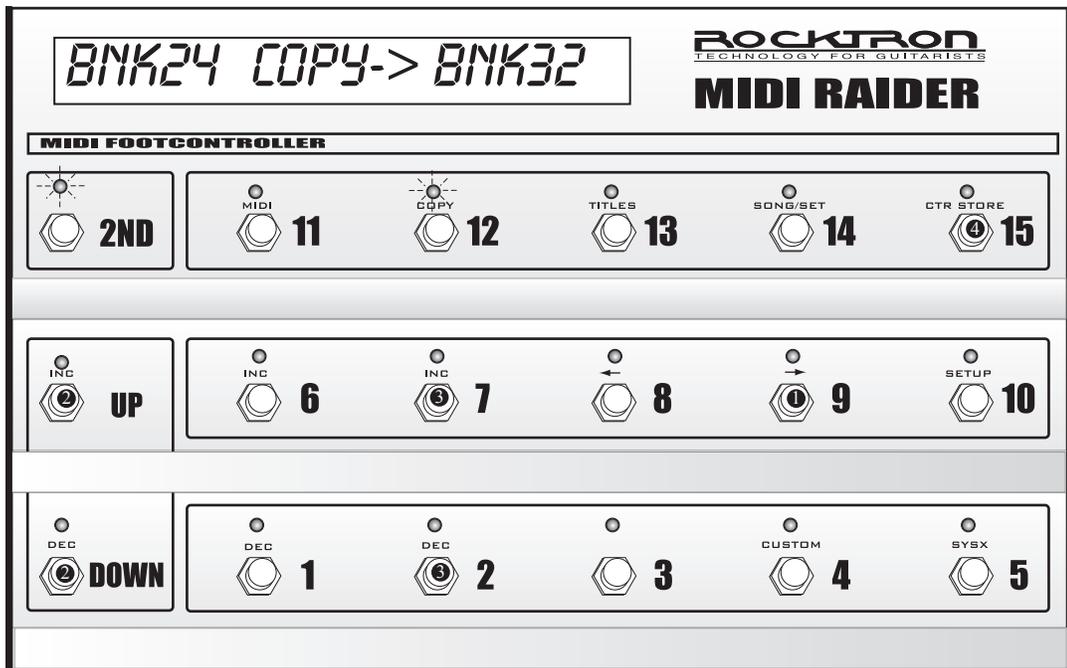
To copy a bank of presets to another bank location:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the copy program, *Bank Copy*. (If the MIDI Raider is not already in the COPY editing mode, press "2ND", then "COPY", followed by "⇒".)
- (2) Use the "INC" and "DEC" switches directly below the displayed bank to be copied to select the desired bank.
- (3) Use the "INC" and "DEC" switches directly below the displayed bank destination to select the desired bank location to copy to.
- (4) Press the "CTR STORE" button to initiate the copy.

To Copy Banks

**Bank to
be copied**
select
BANK 1-50

**Bank location
to copy to**
select
BANK 1-50



When the desired banks have been copied:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇌" button to access additional COPY editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than COPY.*

COPY, Page 3 of 4 - Song Copy

The third page of the COPY program, *Song Copy*, allows for a song to be copied from one song location to another. Song Copy copies the presets and locations associated with the song to be copied.

Tip:

If only a few changes need to be made to an existing song to create a new song, copy the existing song and make the changes to the new song. This will be much quicker and easier than creating an entirely new song.

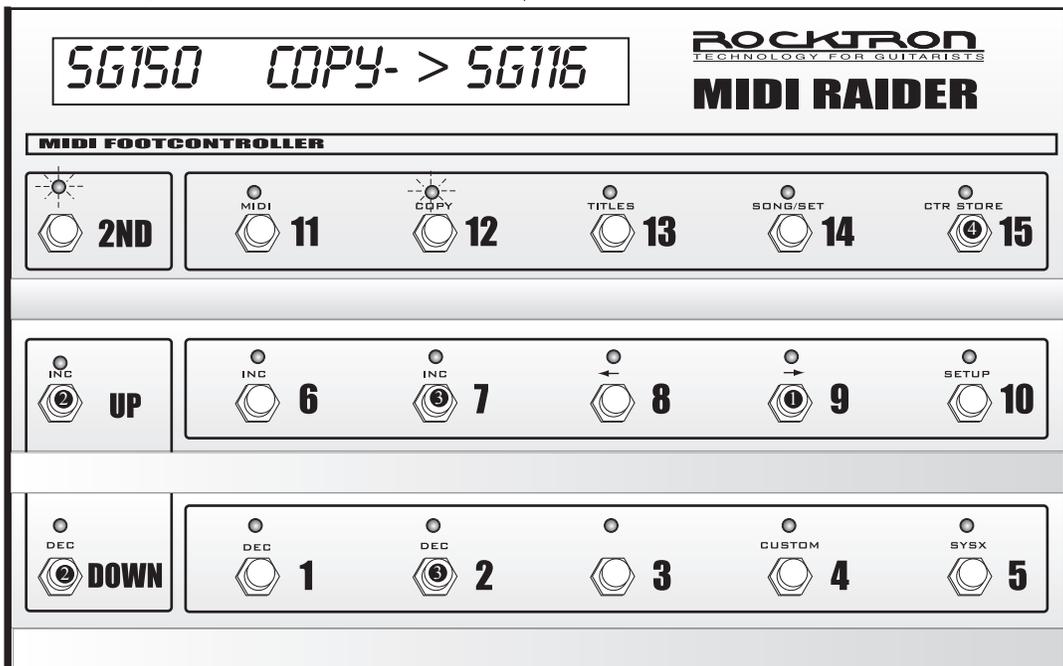
To copy a song to another song location:

- (1) With the 2ND L.E.D. still lit, press the "⇒" switch to access the next page of the copy program, *Song Copy*. (If the MIDI Raider is not already in the COPY editing mode, press "2ND", then "COPY", followed by "⇒" two times.)
- (2) Use the "INC" and "DEC" switches directly below the displayed song to be copied to select the desired song.
- (3) Use the "INC" and "DEC" switches directly below the displayed song destination to select the desired song location to copy to. The current song displayed at the "copy to" location will be lost once the copy is initiated.
- (4) Press the "CTR STORE" button to initiate the copy. "COPY-ING" will be displayed momentarily before returning to the Song Copy screen.

To Copy Songs

**Song to
be copied**
select
SONG 1-150

**Song location
to copy to**
select
SONG 1-150



When the desired songs have been copied:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇔" button to access additional COPY editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than COPY.*

COPY, Page 4 of 4 - Set Copy

The fourth page of the COPY program, *Set Copy*, allows for an entire set to be copied from one set location to another. Set Copy copies all of the songs and their order of an entire set (50 songs).

Tip:

If only a few changes need to be made to an existing set to create a new set, copy the existing set and make the changes to the new set. This will be much quicker and easier than creating an entirely new set.

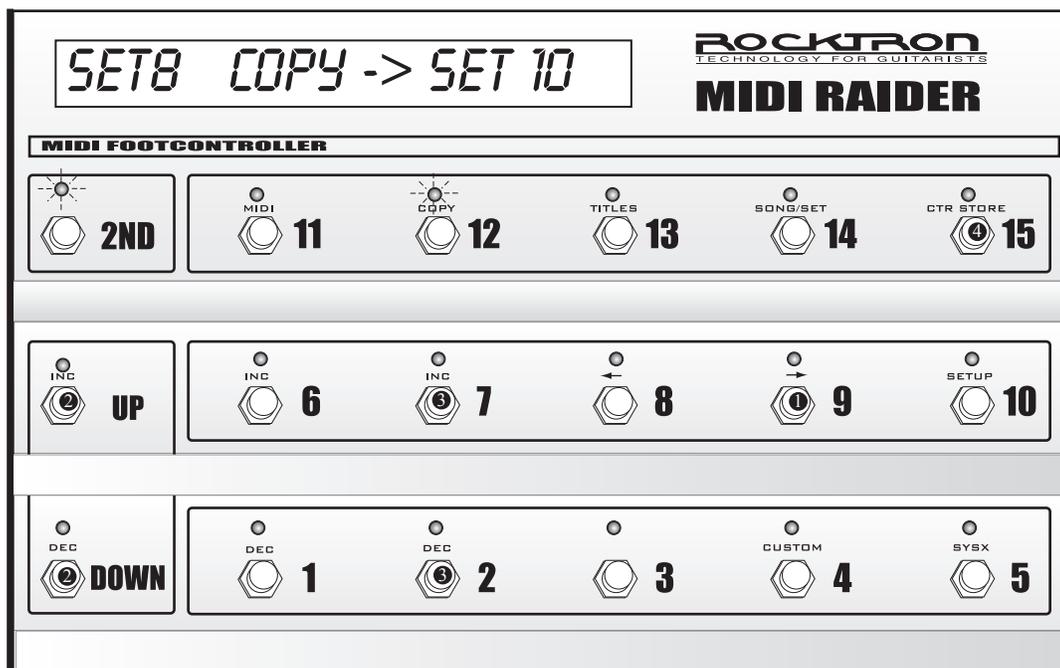
To copy a set to another set location:

- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the next page of the copy program, *Set Copy*. (If the MIDI Raider is not already in the COPY editing mode, press "2ND", then "COPY", followed by "⇔" three times.)
- (2) Use the "INC" and "DEC" switches directly below the displayed set to be copied to select the desired set.
- (3) Use the "INC" and "DEC" switches directly below the displayed set destination to select the desired set location to copy to.
- (4) Press the "CTR STORE" button to initiate the copy. "COPY-ING" will be displayed momentarily before returning to the Set Copy screen.

To Copy Sets

**Set to
be copied**
select
SET1-10

**Set location
to copy to**
select
SET1-10



When the desired sets have been copied:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "←" button to access previous COPY editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than COPY.*

TITLES

The *TITLES* program allows for custom titles to be entered for each MIDI Raider preset. Each custom preset title can be up to 13 characters in length.

To access TITLES:

- (1) To access TITLES, press the "2ND" button to activate the secondary button functions.
- (2) Press the "TITLES" button. The L.E.D. above the "TITLES" button will flash and the MIDI Raider will display the only page of the TITLES program.

To create a custom preset title:

- (3) Use the "INC" and "DEC" switches directly below the preset number currently displayed to select a preset to name. A flashing decimal character is used to indicate which character position may currently be edited.
- (4) Use the "INC" and "DEC" switches directly below the center of the display to select a character for the first character position of the new title.
- (5) Use the "INC" and "DEC" switches directly below the right side of the display to move the flashing decimal character to the next character position to be edited.

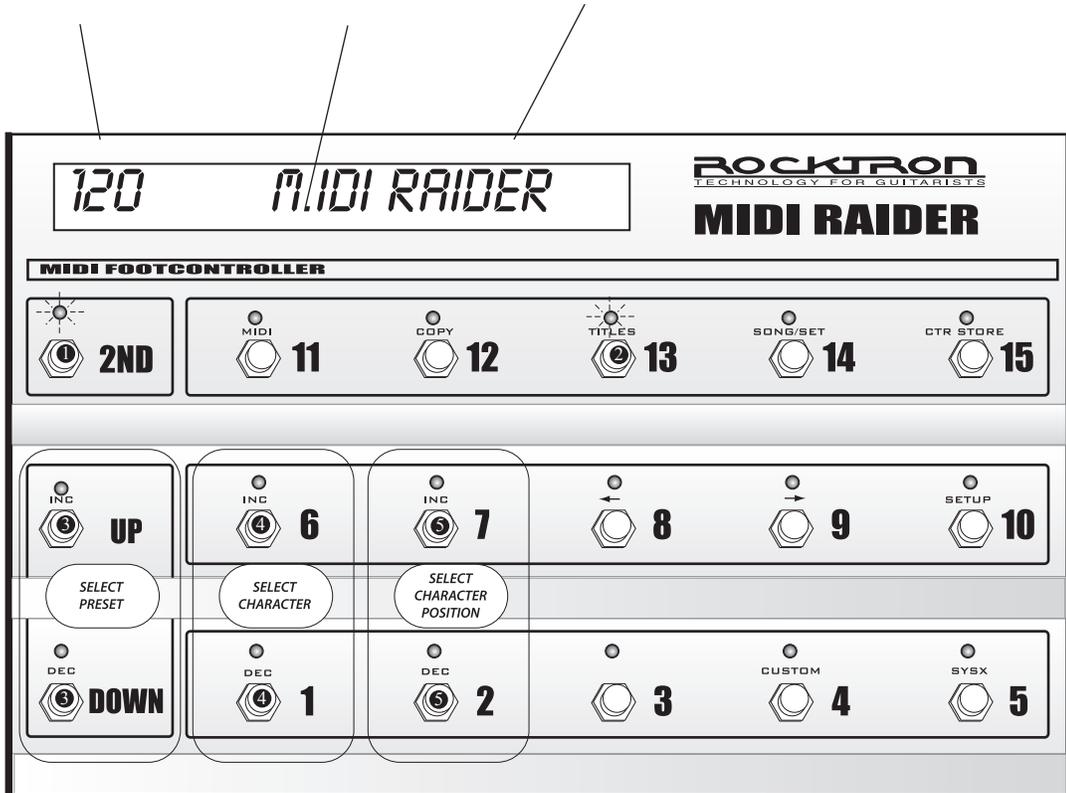
The new title will be saved automatically upon advancing to another preset or exiting the TITLES program.

To Create Preset Titles

Preset to name
name
select
 PR1-120

Flashing Decimal
Decimal
denotes current character to edit

Title
Title
select A-Z, 0-9 for each character



When the desired preset titles have been created:

- (a) *press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) *press another mode button to edit MIDI Raider features other than TITLES.*

SONG/SET

SONG/SET allows for presets to be assigned to the preset switches to create a *SONG* (or a custom bank of presets). Multiple *SONGS* can then be arranged in a bank order to create a *SET*. One *SET* is made up of 50 banks of songs. The *SONG/SET* program also allows for selection of the current operating set when operating the MIDI Raider in Song mode (*see SETUP, Page 1*).

SONG/SET, Page 1 of 3 - Set Select

The first page of the *SONG/SET* program allows for the selection of the current operating set.

To access *SONG/SET*:

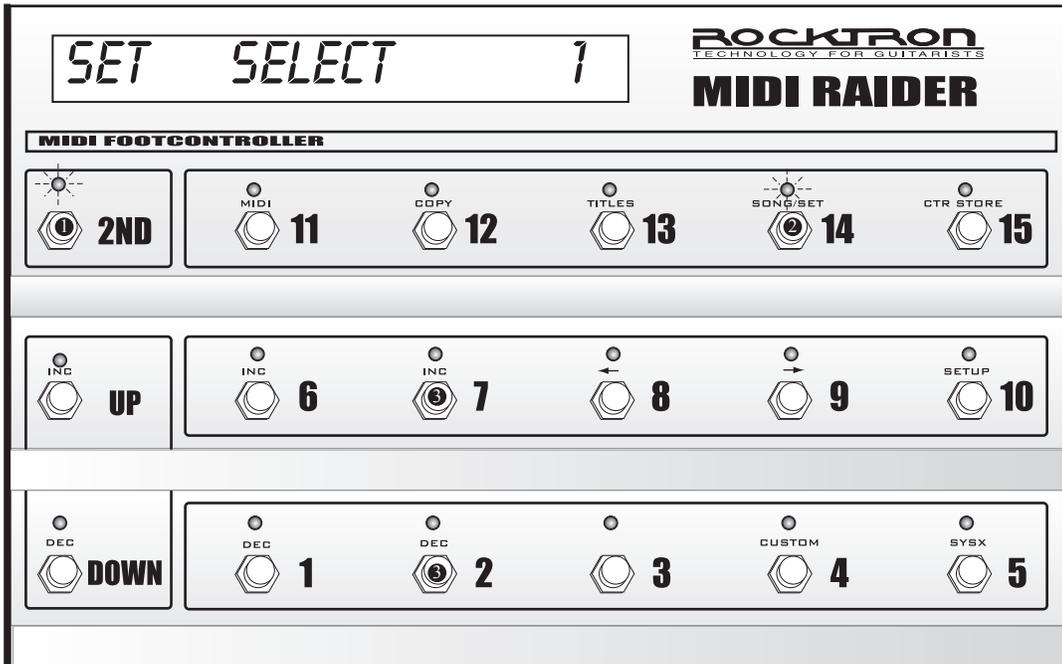
- (1) To access *SONG/SET*, press the "2ND" button to activate the secondary button functions.
- (2) Press the "*SONG/SET*" button. The L.E.D. above the "*SONG/SET*" button will flash and the MIDI Raider will display the first page of the *SONG/SET* program.

To select the current operating set:

- (3) Use the "INC" and "DEC" switches directly below the set number currently displayed to select the desired set.

To Select a Set

Current
Set
select
SET1-10



When the desired set has been selected:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇔" button to access additional SONG/SET editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SONG/SET.*

SONG/SET, Page 2 of 3 - Song Create

The second page of the SONG/SET program, *Song Create*, allows you to create a custom bank of presets by assigning presets to the MIDI Raider preset switches.

If the MIDI Raider is configured to bank by 1 preset at a time, only 1 preset per song is available. If the MIDI Raider is configured to bank by 5 presets at a time, 5 presets per song are available. If the MIDI Raider is configured to bank by 10 presets at a time, 10 presets per song are available. If the MIDI Raider is configured to bank by 15 presets at a time, 15 presets per song are available.

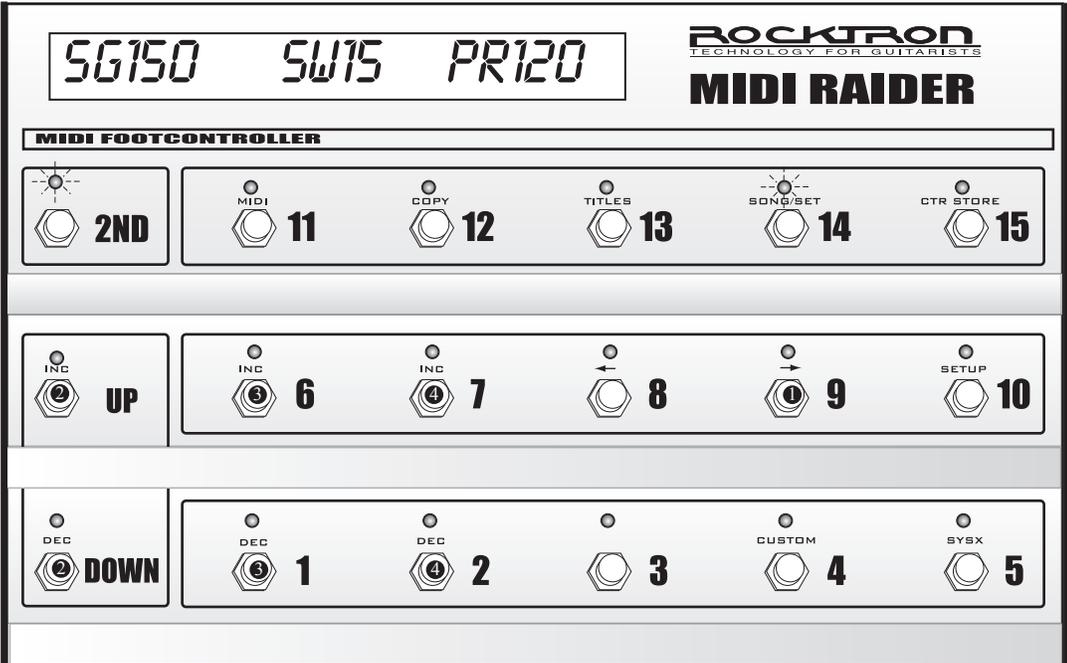
To create a song:

- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the next page of the SONG/SET program, *Song Create*. (If the MIDI Raider is not already in the SONG/SET editing mode, press "2ND", then "SONG/SET", followed by "⇔".)
- (2) Use the "INC" and "DEC" switches directly below the displayed song number to select the desired song. A total of 150 songs are available.
- (3) Use the "INC" and "DEC" switches directly below the displayed switch to select a preset switch to assign a preset to. (Only those switches configured as preset switches are available.)
- (4) Use the "INC" and "DEC" switches directly below the displayed preset to select the preset to be assigned to the selected switch.

Repeat steps (2) through (4) until each preset switch has been assigned a preset.

To Create a Song

<p><u>Song</u> select SONG1-150</p>	<p><u>Preset Switch</u> select SW1-15</p>	<p><u>Preset</u> select PR1-120</p>
--	--	--



When the desired songs have been created:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "⇨" button to access additional SONG/SET editing pages; or
- (c) press another mode button to edit MIDI Raider features other than SONG/SET.

SONG/SET, Page 3 of 3 - Set Create

The third page of the SONG/SET program, *Set Create*, allows songs to be arranged in a bank order to create sets.

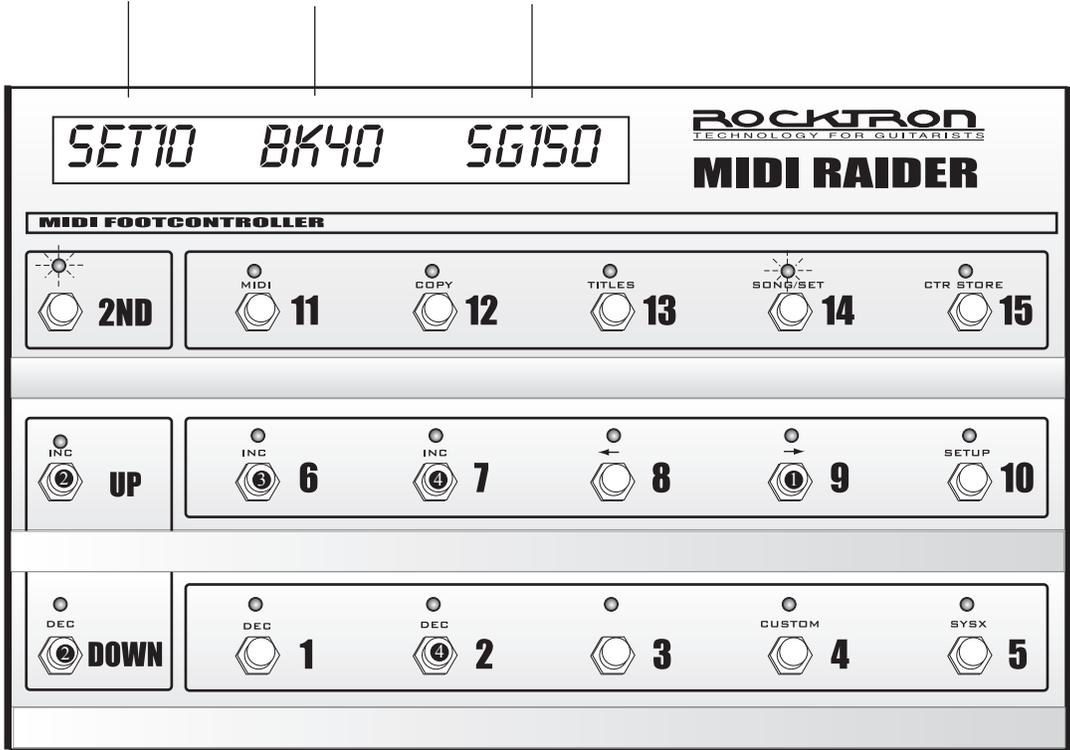
To create a set:

- (1) With the 2ND L.E.D. still lit, press the "⇔" switch to access the next page of the SONG/SET program, *Set Create*.
- (2) Use the "INC" and "DEC" switches directly below the displayed set number to select the desired set.
- (3) Use the "INC" and "DEC" switches directly below the displayed bank to select a bank to assign a song to.
- (4) Use the "INC" and "DEC" switches directly below the displayed song to select the song to be assigned to the displayed bank.

Repeat steps (2) through (4) until each preset switch has been assigned a preset.

To Create a Set

Set <i>select</i> SET1-10	Bank <i>select</i> BK1-50	Song <i>select</i> SONG1-150
--	--	---



When the desired sets have been created:

- (a) press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or
- (b) press the “←” button to access previous SONG/SET editing pages; or
- (c) press another mode button to edit MIDI Raider features other than SONG/SET.

CTR STORE

CTR STORE (or Controller Store) stores the “on” or “off” status of each instant access switch for the preset that is currently recalled.

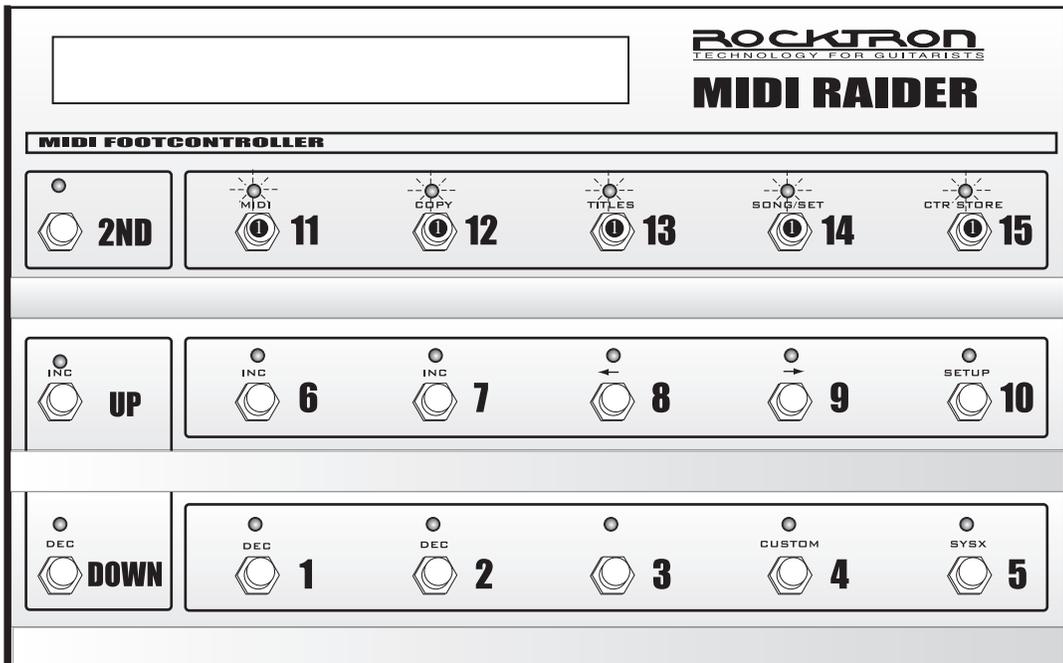
- (1) Set the instant access switches to the desired on/off status for the current preset. Once stored, this status will be recalled each time the preset is recalled and the corresponding MIDI control change for each switch will be sent (if operating in Song or Bank mode).

To access CTR/STORE and store the current switch on/off status:

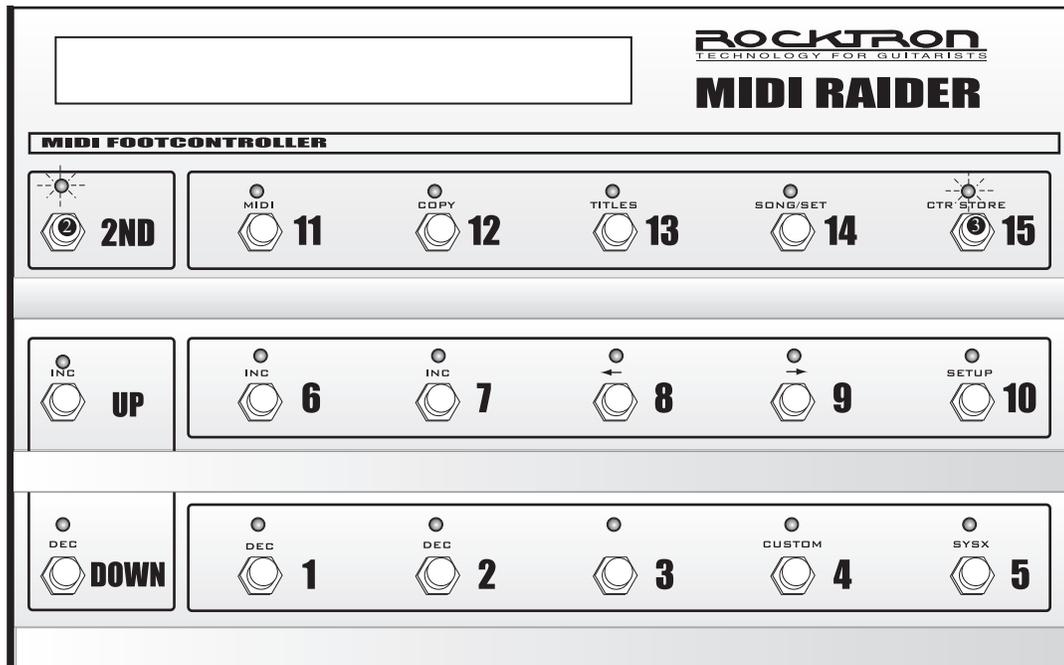
- (2) To access CTR STORE, press the "2ND" button to activate the secondary button functions.
- (3) Press the "CTR STORE" button to store the current "on/off" status for the instant access switches for the preset currently recalled.

Repeat steps (1) through (3) for all desired presets.

The example below shows all of the instant access switches in an “on” condition when the MIDI Raider is configured with a bank size of 10.



To Store the Status of the Instant Access Switches



When the Instant Access switch status has been stored:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press another mode button to edit MIDI Raider features other than CTR STORE

CUSTOM

CUSTOM allows the user to create a custom MIDI string of any five MIDI commands for each preset. All five commands will be sent whenever the preset is recalled.

CUSTOM, Page 1 of 2 - Command Selection

The first page of the *CUSTOM* program, *Command Selection*, allows for the selection of MIDI commands and the order in which they are to be transmitted once the preset has been recalled.

To access CUSTOM:

- (1) To access *CUSTOM*, press the "2ND" button to activate the secondary button functions.
- (2) Press the "CUSTOM" button. The L.E.D. above the "CUSTOM" button will flash and the MIDI Raider will display the first page of the *CUSTOM* program.



Note:

MIDI commands which are followed by a ">" symbol on the next CUSTOM page before the message will be stored in this page (see CUSTOM, Page 2).

To create a MIDI command string:

- (3) Use the "INC" and "DEC" switches directly below the preset number currently displayed to select the desired preset.
- (4) Use the "INC" and "DEC" switches directly below the command number currently displayed to select the desired command number.
- (5) Use the "INC" and "DEC" switches directly below the MIDI command currently displayed to select the desired MIDI command (see *CUSTOM*, page 2).

MIDI Message Abbreviations:

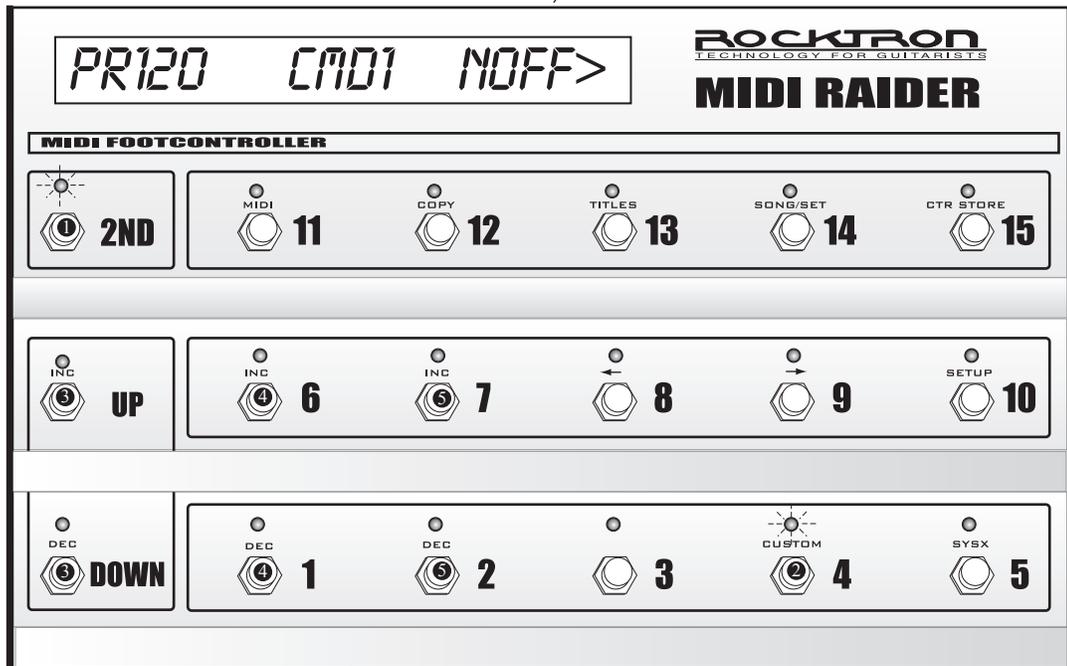
NOFF>	(Note Off)
N ON>	(Note On)
KPRS>	(Key Pressure)
C CH>	(Control Change)
P CH>	(Program Change)
CPRS>	(Channel Pressure)
PBEN>	(Pitch Bend)
T CLK	(Timing Clock)
START	(Start)
CONTU	(Continue)
STOP	(Stop)
ACTSN	(Active Sensing)
SYSRS	(System Reset)
MTC>	(MIDI Time Code)
SGPP>	(Song Position Pointer)
SGSL>	(Song Select)
T REQ	(Tune Request)
NONE	(None)

To Select MIDI Commands

Preset Number
select
PR1-120

Command Number
select
CMD1-5

MIDI Command
select
ALL COMMANDS



When the desired MIDI commands have been selected:

- (a) press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- (b) press the "⇄" button to access additional CUSTOM editing pages; or
- (c) press another mode button to edit MIDI Raider features other than CUSTOM.

CUSTOM, Page 2 of 2 - Additional Data

Some MIDI commands selected in *CUSTOM, Page 1* will have a “>” symbol following the command name. This symbol indicates MIDI commands that require additional data which needs to be programmed before the message can be stored in memory. For example, the “Note Off>” command requires information concerning the MIDI Channel, Note Number and Note Velocity, as shown in the example below. The second page of the *CUSTOM* program allows for the selection of this additional information.

To define additional MIDI information:

- (6) Press the "⇨" switch to access the second page of the *CUSTOM* program. (If the MIDI Raider is not already in the *CUSTOM* editing mode, press “2ND”, then “CUSTOM”, followed by “⇨”.)
- (7) Use the "INC" and "DEC" switches directly below the left side of the display to edit the information shown on the left side of the display.
- (8) Use the "INC" and "DEC" switches directly below the center of the display to edit the information shown in the center of the display.
- (9) Use the "INC" and "DEC" switches directly below the right side of the display to edit the information shown on the right side of the display.

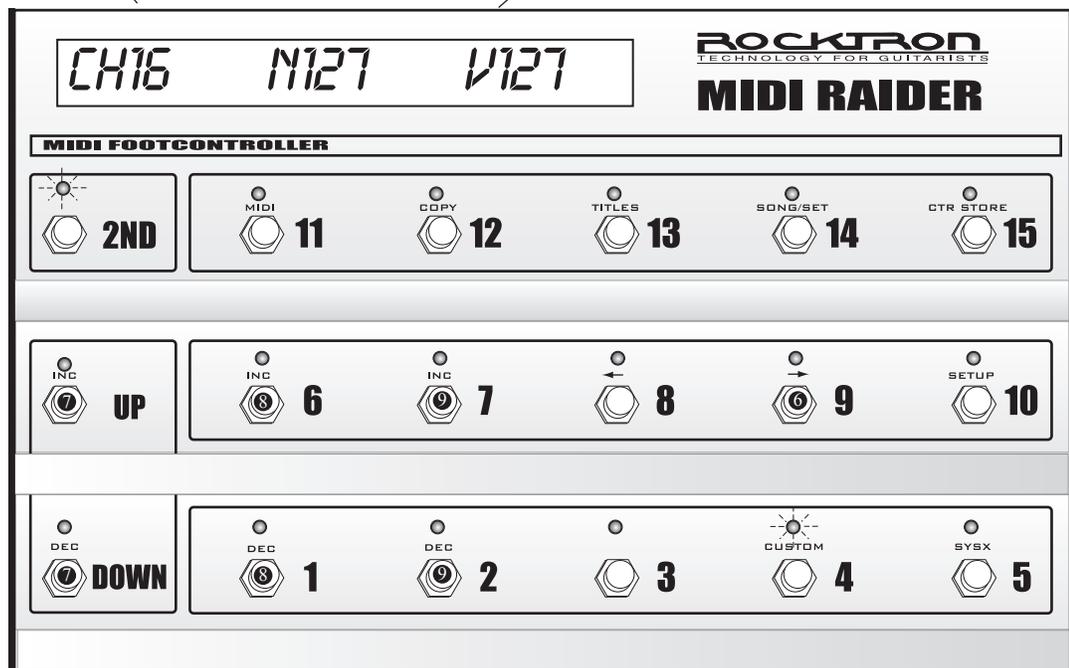
MIDI Commands not followed by the “>” symbol do not require the additional data shown in CUSTOM, Page 2.

To Provide Additional MIDI Command Data

Data 1
this example:
MIDI CHANNEL

Data 2
this example:
NOTE NUMBER

Data 3
this example:
NOTE OFF
VELOCITY



When the additional data has been entered:

- press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or
- press the "←" button to access the previous CUSTOM editing page; or
- press another mode button to edit MIDI Raider features other than CUSTOM.

SYSX

The *SYSX* program allows the user to perform a bulk dump or bulk load of the entire MIDI Raider programmable memory, as well as create a system exclusive MIDI string up to 30 bytes long for each preset to communicate device and manufacturer specific information.

SYSX, Page 1 of 3 - Bulk Dump/Load

The first page of the *SYSX* program, *Bulk Dump/Load*, allows for the user to perform a Bulk Dump or Load of the MIDI Raider programmable memory.

To access the *SYSX* program:

- (1) To access *SYSX*, press the "2ND" button to activate the secondary button functions.
- (2) Press the "*SYSX*" button. The L.E.D. above the "*SYSX*" button will flash and the MIDI Raider will display the first page of the *SYSX* program.

To perform a bulk dump or load:

- (3) Use the "INC" and "DEC" switches directly below the current dump/load status displayed to select whether a Bulk Dump or Bulk Load is to be performed.

*If a Bulk Load is to be performed, the MIDI Raider must display this editing page and "LOAD" must be selected for the MIDI Raider to receive a Bulk Dump from another device.

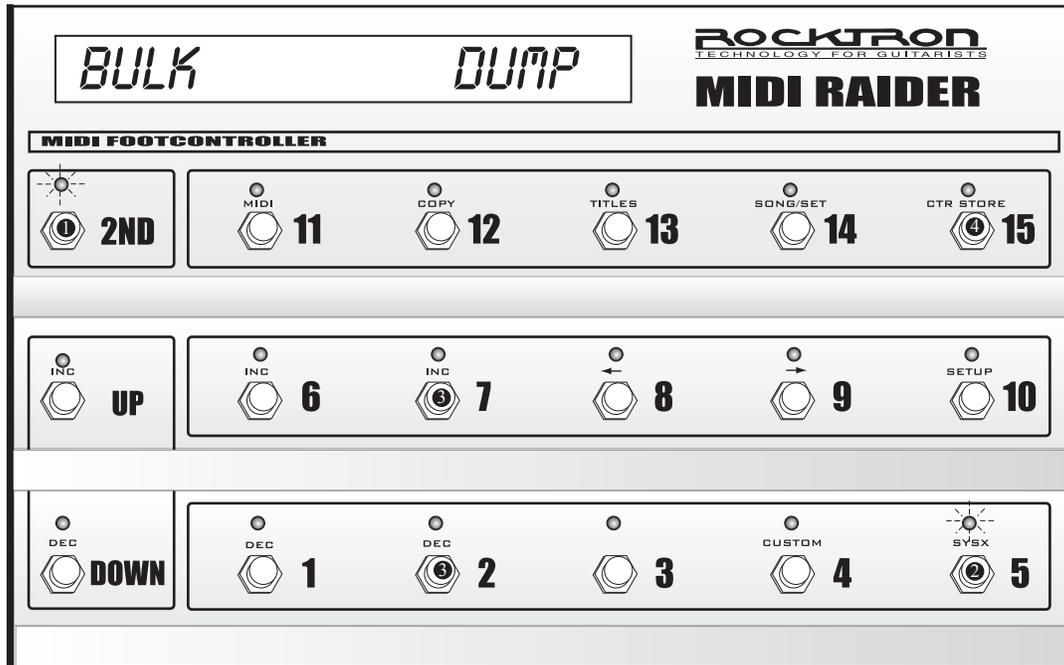
- (4) If a Bulk Dump is to be performed, press the "CTR STORE" button to initiate the dump.

- * **When receiving a Bulk Load, it is important that the data loaded to the MIDI Raider is not transmitted faster than it was originally dumped from the MIDI Raider. If information is sent too fast to the MIDI Raider, a "Buffer Overflow" error will occur.**

When dumping information from a data storage device, such as an Alesis Data Disk, it is necessary to perform the dump in *sequence* mode rather than *sysx* mode. Sequence mode will dump the information back to the MIDI Raider at the same speed as it was received from the MIDI Raider. The MIDI Raider can receive a data dump at about 65Hz (or about 1 byte every 15 milliseconds).

To Perform a Bulk Dump or Bulk Load

**Dump/Load
Status**
*select
DUMP or LOAD*



When the Bulk Dump/Load is completed:

- (a) *press the "2ND" button again (turning the "2ND" L.E.D. off) to exit the editing mode; or*
- (b) *press the "⇌" button to access additional SYSX editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SYSX.*

SYSX, Page 2 of 3 - MIDI Sysx On/Off status

The second page of the SYSX program, *MIDI Sysx On/Off Status*, allows for a system exclusive MIDI string assigned to a preset to be designated as “on” or “off” when recalling the preset. Designating a system exclusive message as “off” does not erase the message, it is merely disabled when the preset is recalled.

ON - message is sent when preset is recalled.

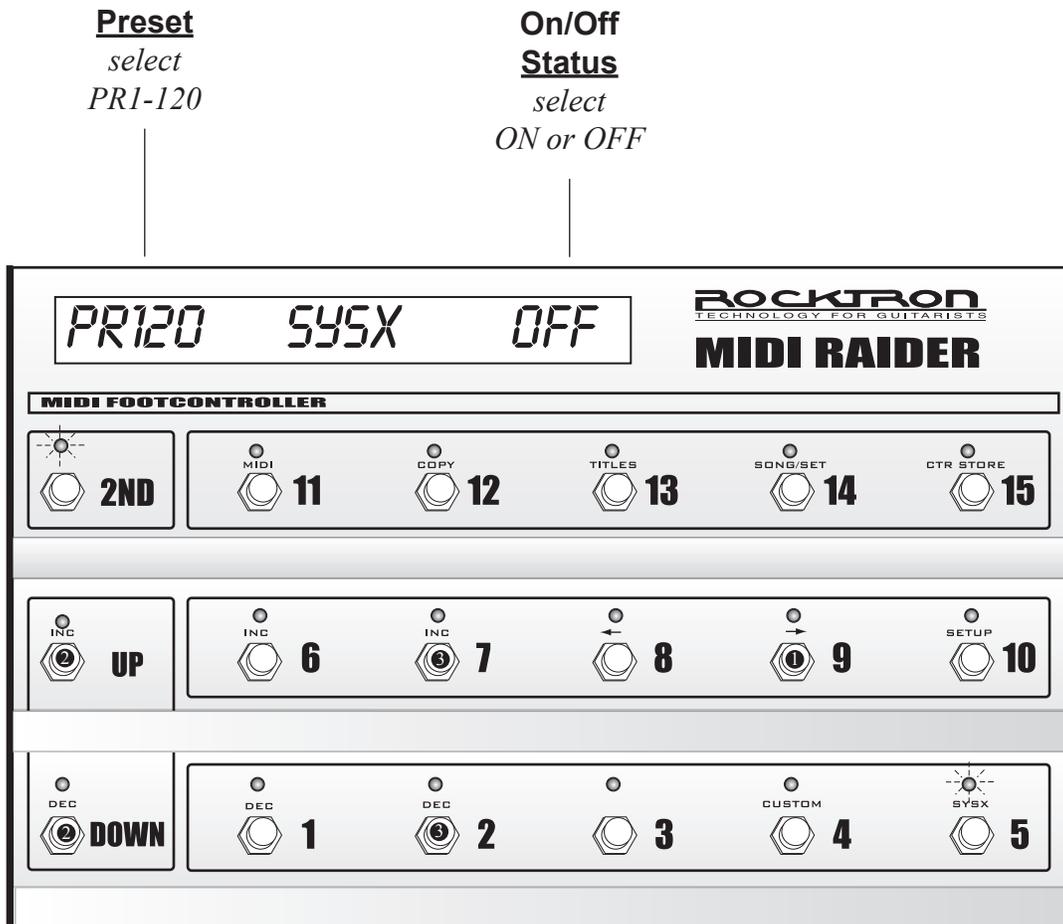
OFF - message is not sent when preset is recalled.

- (1) With the 2ND L.E.D. still lit, press the "⇔" button to access the second page of the SYSX program. (If the MIDI Raider is not already in the SYSX editing mode, press "2ND", then "SYSX", followed by "⇔".)

To designate the MIDI string on/off status:

- (2) Use the “INC” and “DEC” switches directly below the currently displayed preset number to select the desired preset to add a system exclusive MIDI string.
- (3) Use the "INC" and "DEC" switches directly below the current On/Off status displayed to select "ON".

Designating the MIDI String On/Off Status



When the on/off status has been designated for all desired presets:

- (a) press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or
- (b) press the “⇌” button to access additional SYSX editing pages; or
- (c) press another mode button to edit MIDI Raider features other than SYSX.

SYSX, Page 3 of 3 - Byte Value Assignment

The third page of the SYSX program allows for the assignment of byte values for each byte of the system exclusive message.

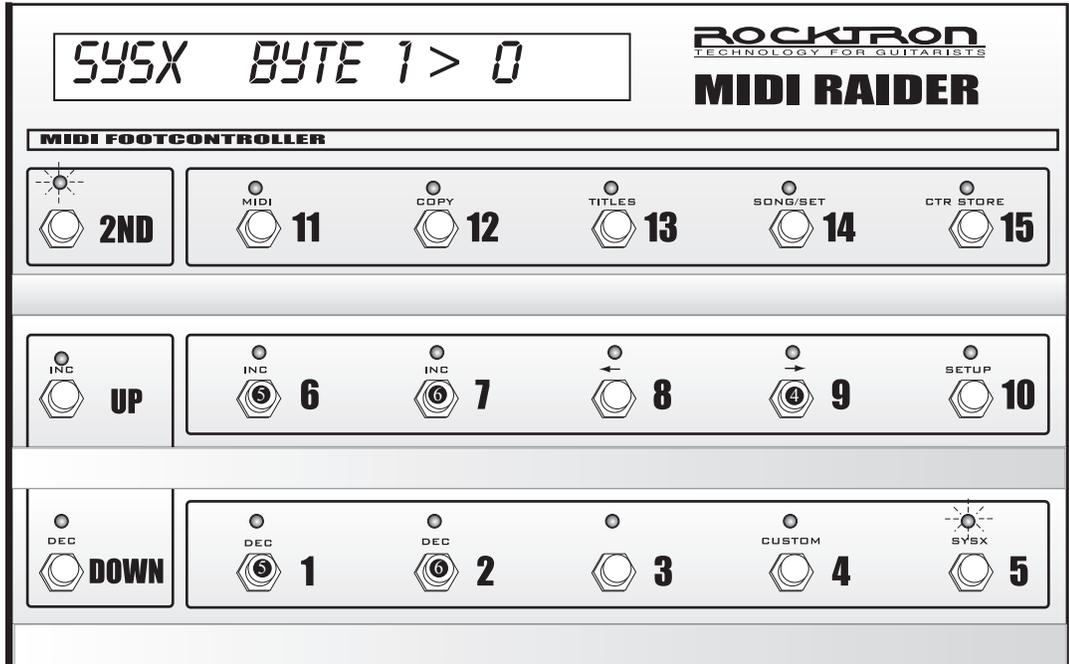
- (4) With the 2ND L.E.D. still lit, press the "⇨" button to access the third page of the SYSX program. (If the MIDI Raider is not already in the SYSX editing mode, press "2ND", then "SYSX", followed by "⇨" two times.)

To assign values to the MIDI string bytes:

- (5) Use the "INC" and "DEC" switches directly below the currently displayed byte number to select the desired byte to assign a byte value to.
- (6) Use the "INC" and "DEC" switches directly below the current byte value displayed to select the value to assign to the displayed byte number.
- (*) *An "EOX" (End of Exclusive) value ends the MIDI string and does not allow any following bytes to be programmed.*

Assigning Byte Values

<u>Byte Number</u>	<u>Value</u>
<i>select</i>	<i>select</i>
<i>BYTE1-30</i>	<i>0-127, EOX</i>



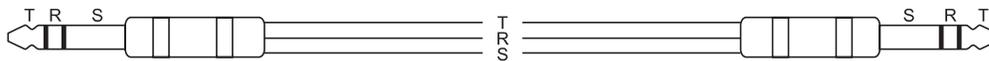
When the system exclusive byte values have been assigned for all desired presets:

- (a) *press the “2ND” button again (turning the “2ND” L.E.D. off) to exit the editing mode; or*
- (b) *press the “←” button to access previous SYSX editing pages; or*
- (c) *press another mode button to edit MIDI Raider features other than SYSX.*

Expression Pedal Cords

STANDARD STEREO CORD

For use if a pedal has a stereo input/output jack

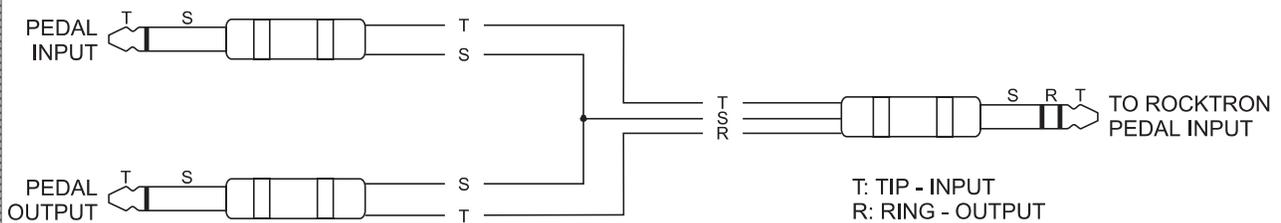


T: TIP - INPUT
R: RING - OUTPUT
S: SLEEVE - GROUND

TWO MONO TO ONE STEREO CORD

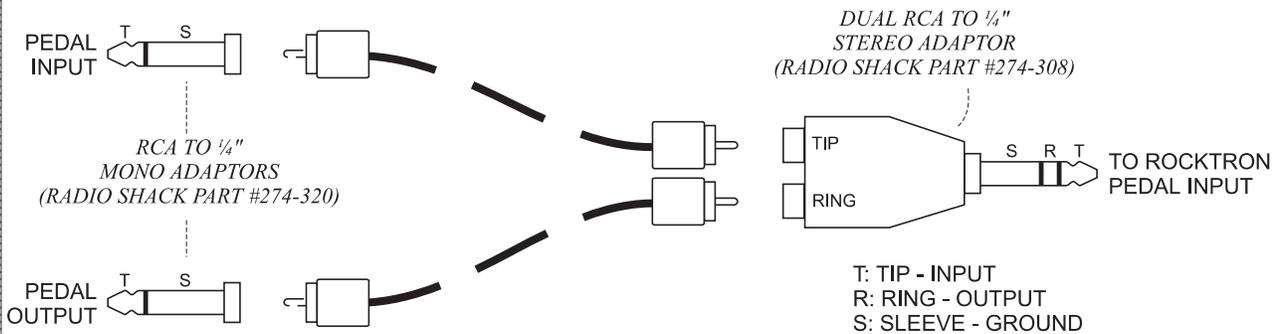
For use if a pedal has mono input and output jacks.

Note: For best results, use coax cable.



T: TIP - INPUT
R: RING - OUTPUT
S: SLEEVE - GROUND

A stereo "Y" cord can also be made using RCA patch cords and 1/4" adaptors, with no soldering involved.



T: TIP - INPUT
R: RING - OUTPUT
S: SLEEVE - GROUND

MIDI Implementation

Model: *MIDI Raider*
 Date: *December 2, 1994*
 Version: *1.00*

	<u>FUNCTION</u>	<u>TRANSMITTED</u>	<u>RECOGNIZED</u>	<u>REMARKS</u>
BASIC CHANNEL	DEFAULT CHANGED	1 1-16	NONE 1-16, OMNI	MAY BE SAVED IN NONVOLATILE RAM
MODE	DEFAULT MESSAGES ALTERED	NONE O X	X X X	
NOTE NUMBER	TRUE VOICE	O-127	X	
VELOCITY	NOTE ON NOTE OFF	O O	X X	
AFTER TOUCH	KEY'S CHANNEL	O O	X X	
PITCH BEND		O	X	
CONTROL CHANGE*		O	O	
PROGRAM CHANGE**	TRUE NUMBER	O	O	
SYSTEM EXCLUSIVE		O	O	
SYSTEM COMMON	SONG POSITION SONG SELECT TUNE REQUEST	O O O	X X X	
SYSTEM REAL TIME	CLOCKS COMMANDS	O O	X X	
AUX MESSAGES	LOCAL ON/OFF ALL NOTES OFF ACTIVE SENSING SYSTEM RESET	O O O O	X X X X	

* Each instant access switch may be assigned a control number that will be used for transmitting and receiving. Control numbers may be assigned globally for all presets, or differently for each preset.

** A program change may be assigned to all 16 channels for each preset. Program change numbers may start at "0" or "1" for each channel. Actual program value sent is 0-127.

Technical Data

INPUTS/OUTPUTS	Locking 7 pin MIDI In, with Phantom Power, (Aux. Remote) Locking 7 pin MIDI Out, with Phantom Power, (Remote) 2 - 1/4" Pedal Inputs 1 - 2.5mm DC Pin, Power jack
POWER REQUIREMENTS	9VAC 1100MA or Greater
DROP OUT VOLTAGE	90VAC (powering one footswitch)
WIDTH	10.2" (260mm)
LENGTH	15.6" (397mm)
HEIGHT	3.5" (89mm)
WEIGHT	8.5lbs (3.85Kg)

ROCKTRON

TECHNOLOGY FOR GUITARISTS

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