

Quick Guide	<p>Already know how to use an 808? Great! You're ready to start playing right away. Just take a quick look at some of the following tips and functional highlights that distinguish the 880's sequencer from an original TR-808.</p> <p>Never used an 808-style sequencer before? It's easy to pick up, but you might want to refer to the Operational Manual: <i>http://system80.net/product/880/</i></p>
Navigate the Programming Modes	<p>The MODE selector control is located in the upper left corner of the control panel and is used to select different operations for both programming and playing the 880. Pressing the MODE key cycles through each of the six modes: PATTERN CLEAR, 1st PART, 2nd PART, MANUAL PLAY, PLAY, and COMPOSE.</p> <p>Essential Tip! Holding the SHIFT-WRITE/NEXT key while pressing the MODE key reverses the direction of the selection cycle. You will find that reversing the direction of the MODE selection with the SHIFT key is the fastest way to switch between adjacent modes (eg. 1st PART to CLEAR, or 2nd PART to 1st PART).</p>
Copy and Paste a Rhythm Pattern	<p>In Pattern Edit mode (1st PART or 2nd PART), with the sequencer stopped, select the pattern you wish to copy. Press and hold the CLEAR button and then select a new pattern to copy to. Both VARIATION A and B will be copied to the destination pattern. Any pattern data in the destination pattern will be overwritten.</p>
Change the Pattern Bank	<p>Press and hold the ALT key and use the STEP buttons to select one of the 12 Pattern Banks available.</p> <p>NOTE: In MANUAL PLAY mode the SHIFT-WRITE/NEXT key needs to be used in combination with the ALT key to access the Pattern Banks.</p>
Change the Rhythm Pattern While the Sequencer is Running	<p>In Pattern Edit Mode (1st PART or 2nd PART) the current Rhythm Pattern can be changed while the sequencer is running.</p> <p>Press and hold both the SHIFT-WRITE/NEXT key and the ALT key and select the desired Rhythm Pattern using the STEP buttons. The currently playing pattern will finish playing and the newly selected rhythm pattern will begin playing.</p>
Change the MIDI Channel	<p>The 880's MIDI receive channel is set to Channel 1 by default. To change the default MIDI receive channel, use the MODE selector button to select CLEAR mode. With the sequencer stopped, press and hold both the SHIFT-WRITE/NEXT key and the ALT key. Use the STEP buttons to select the MIDI receive channel, from 1 to 16.</p>
Assign the Trigger Outputs	<p>The 880's two Trigger Outputs can be assigned to any of the 16 drum voices and the Accent trigger.</p> <p>With the sequencer stopped, use the MODE selector button to select MANUAL PLAY. Use the I/F VAR switch to select Trigger 1 (A) or Trigger 2 (B). Press and hold the SHIFT-WRITE/NEXT key and the ALT key. While these keys are held the currently assigned trigger will be indicated by the Instrument/Track LEDs.</p> <p>Use the Instrument/Track buttons to select the instrument you wish to assign to the Trigger Output.</p> <p>By default Trigger 1 is assigned to the Accent and Trigger 2 is assigned to the Cowbell. Trigger assignments are stored in non-volatile memory for recall after power off.</p>
Alternate the Basic Variations	<p>The BASIC-VARIATION button toggles between Variation A and Variation B. To alternate between A and B press and hold the SHIFT-WRITE/NEXT key while pressing the BASIC-VARIATION button. To exit the alternating mode simply press the BASIC-VARIATION button once.</p>
Copy Variation A to Variation B	<p>In Pattern Edit mode (1st PART or 2nd PART), with Variation A set as the current variation, press and hold the CLEAR button and then press the BASIC-VARIATION button. The pattern data in Variation A will be copied to Variation B.</p>
Mute an Instrument	<p>To mute an instrument, press and hold the SHIFT-WRITE/NEXT key and press the Instrument/Track selector button for the instrument you wish to mute. Press the selector button again to un-mute.</p>
Sync to an External Clock	<p>The 880 may be synced to external MIDI clock, DIN Sync24 clock or an analog clock pulse on the SYNC IN jack. Press the AUTO FILL IN selector button while holding down the SHIFT-WRITE/NEXT key to change the Synchronization Mode. Refer to Synchronization on Page 12 of the Operation Manual for more information.</p>

Rhythm Pattern Programming	
➊	With the sequencer stopped, set the MODE selector to PATTERN CLEAR.
➋	Use the STEP buttons to select the Rhythm Pattern memory location you wish to program.
➌	Press the BASIC VARIATION button to select Variation A or Variation B.
➍	Press the CLEAR button.
➎	Set the MODE selector to 1st PART.
➏	Start the sequencer by pressing the START/STOP button.
➐	While pressing the SHIFT/WRITE-NEXT key, press the CLEAR button to choose the PRE-SCALE.
➑	While pressing the CLEAR button, press a STEP button to set the desired pattern length (1-16)*.
➒	Choose an instrument using the INSTRUMENT/TRACK selector buttons.
➓	Press the STEP buttons to program the instrument on the desired steps.
➑	Program the other instrument sounds and ACCENT by repeating ➒ and ➓.
➒	Press the START/STOP button when programming has been completed.
*In the case of programming 16 steps setting the pattern length is unnecessary.	

Track Compose	
➊	Set the MODE selector to COMPOSE
➋	Choose the Track with the INSTRUMENT/TRACK selector buttons.
➌	Press the CLEAR button.
➍	Use the STEP buttons to select the first Rythm Pattern of the Track.
➎	Press the BASIC VARIATION button to select Variation A or Variation B.
➏	Press the START/STOP button to start the sequencer.
➐	Press the SHIFT-WRITE/NEXT key to advance to the next measure.
➑	Use the STEP buttons to select a different Rythm Pattern, if desired. Press the SHIFT-WRITE/NEXT key to save the Rhythm Pattern and advance to the next measure.
➒	At the last measure of the composition, stop the sequencer by pressing the START/STOP button.
Track Play	
➊	Set the MODE selector to PLAY.
➋	Choose the Track to play using the INSTRUMENT/TRACK selector buttons.
➌	Press the BASIC VARIATION button to select Variation A or Variation B.
➍	Start the sequencer by pressing the START/STOP button.

Manual Play	
➊	Set the MODE selector to MANUAL PLAY.
➋	Use STEP buttons 1-12 to select the Basic Rhythm Pattern you want to play.
➌	Press the BASIC-VARIATION button to select the Variation you want to play, A or B.
➍	Start the sequencer by pressing the START/STOP button.
Intro	
➊	Use STEP buttons 13 - 16 to select the Intro Rhythm Pattern you want to play.
➋	Press the I/F - VAR button to select the Intro variation.
➌	Press the TAP button to activate the Intro.
➍	Start the sequencer by pressing the START/STOP button.
Fill In (MANUAL)	
➊	Set the AUTO FILL IN selector to MAN.
➋	Use STEP buttons 13 - 16 to select the Fill In Rhythm Pattern you want to play.
➌	Press the I/F - VAR button to select the Fill In variation.
➍	Press the TAP button when you want the Fill In Rhythm Pattern to play instead of the BASIC RHYTHM.
Fill In (AUTOMATIC)	
➊	Choose the Fill In count using the AUTO FILL IN selector (16, 12, 8, 4, or 2 measures).
➋	Use STEP buttons 13 - 16 to select the Fill In Rhythm Pattern you want to play.
➌	Press the I/F - VAR button to select the Fill In variation.
➍	Press the START/STOP button to start the sequencer.

Installation and Setup	<p>The 880 is a 60 HP Eurorack module. It must be installed correctly in a Eurorack case and supplied with Eurorack standard power. Use the supplied screws and washers to install the 880 in your Eurorack case.</p> <p>Caution! Do not apply power to the 880 when it is not securely installed in a Eurorack case.</p>
Power Supply	<p>It is strongly recommended that a professional, high quality Eurorack power supply be used with the 880. Do-It-Yourself (DIY) power supplies and unfiltered 'off-the-shelf' switching power modules may result in unwanted noise and performance issues. Ensure that your power supply has sufficient overhead to handle the current drawn by all of the Eurorack modules connected to it. When its power supply is overloaded the 880 will function erratically or not at all.</p>

Connecting Power	<p>The 880 uses a standard Eurorack non-shrouded/non-keyed power connector. The cutout in the back panel, however, does provide a keyed opening to ensure the cable is connected in the correct orientation (left).</p> <p>A standard 10 pin Eurorack power cable is supplied. The red stripe on the power cable indicates the position of the –12V conductor. When connecting the power cable ensure that the red stripe side of the cable is aligned with the thick line next to the power header on the back panel. Connect the 10 pin connector to the 880's power header and connect the 16 pin connector to your system's power bus board.</p> <p>The 880 is designed to withstand brief conditions of reverse power, but prolonged connection to reverse polarity may damage the protection diodes and require module servicing.</p>
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