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› [Behringer](#) /

› [Behringer RS-9 Rhythm Sequencer Eurorack Module User Manual](#)

Behringer RS 9

Behringer RS-9 Rhythm Sequencer Eurorack Module

USER MANUAL

1. Introduction

The Behringer RS-9 is a 52HP Eurorack rhythm sequencer module designed to provide comprehensive control over drum machines and other rhythmic elements in your modular setup. It features 10 drum channels, 10 trigger/accent outputs, 1 CV output, and supports up to 64 steps per sequence with pattern and song modes. This manual provides detailed instructions for setup, operation, and maintenance of your RS-9 module.

2. Safety Instructions

- **Power Supply:** Ensure the module is connected to a compatible Eurorack power supply that meets the required voltage and current specifications. Incorrect power can damage the module.
- **Environment:** Operate the module in a dry environment, away from moisture, extreme temperatures, and direct sunlight.
- **Handling:** Handle the module with care. Avoid dropping or subjecting it to strong impacts.
- **Servicing:** Do not attempt to service the module yourself. Refer all servicing to qualified personnel.

3. Setup

3.1 Eurorack Mounting

The RS-9 is a 52HP Eurorack module. To install, align the module with an available 52HP space in your Eurorack case. Connect the ribbon cable from your Eurorack power supply to the module's power connector, ensuring the red stripe on the ribbon cable aligns with the -12V pin on both the power supply and the module. Secure the module with the provided screws.

3.2 Initial Connections

After mounting, connect your drum modules or other sound sources to the RS-9's trigger and accent outputs. Use standard 3.5mm Eurorack patch cables. For MIDI synchronization, connect a MIDI cable to the MIDI IN port. For USB MIDI, connect a USB cable to your computer or host device.

4. Controls and Connections



Figure 1: Behringer RS-9 Rhythm Sequencer Eurorack Module Front Panel Overview

4.1 Output Section

- **TRIG 1-10:** These are the 10 individual trigger outputs for each drum channel. Connect these to the trigger inputs of your drum modules.
- **ACC 1-10:** These are the 10 individual accent outputs, providing a higher voltage trigger for accented steps. Connect these to accent inputs on your drum modules if available.
- **CV OUT:** A single Control Voltage output that can be assigned to various parameters.

4.2 Main Controls

- **VEL (Velocity) Knob:** Adjusts the velocity or intensity of the triggers.
- **ACCENT Button:** Toggles accent mode for step programming.
- **TAP Button:** Used for tap tempo input or other timing functions.
- **Display:** Shows tempo, step number, and other parameter values.
- **Play/Pause Button:** Starts and stops sequence playback.
- **Stop Button:** Stops sequence playback and resets to the beginning.

4.3 Sequence Navigation & Modes

- **LENGTH (16, 32, 48, 64):** Buttons to set the sequence length in steps.
- **AUTOSCROLL:** Enables or disables automatic scrolling through steps during playback.
- **SONG Button:** Enters Song mode for chaining patterns.
- **PATTERN Button:** Enters Pattern mode for selecting and editing individual patterns.
- **STEP Button:** Enters Step mode for programming individual steps.

4.4 Editing & Utility Functions

- **EDIT Button:** Activates edit functions for various parameters.
- **SAVE Button:** Saves current patterns or songs.

- **COPY Button:** Copies patterns or steps.
- **ERASE Button:** Erases patterns, steps, or other data.
- **DUMP Button:** Used for data transfer or backup.
- **MODE Button:** Cycles through different operational modes.
- **SYNC Section (TEMPO, SWING, PROB, FLAM, TRIG, INT, MIDI, USB):** Controls for synchronization settings, including internal tempo, swing, probability, flam, and selecting sync sources (Internal, MIDI, USB, Trigger).
- **TRIGGER Section (STEP RPT, NOTE RPT):** Controls for step repeat and note repeat functions.
- **MUTE Button:** Mutes selected drum channels.
- **TRACK Button:** Selects tracks for editing.
- **SOLO Button:** Solos selected drum channels.
- **AUTOFILL:** Automatically fills steps based on a pattern.
- **SETTINGS:** Accesses global settings and configurations.

4.5 Step Buttons (1-16)

The 16 large buttons are used for step programming. Each button corresponds to a step in the sequence. They also have secondary functions indicated by text below them, such as MIDI, VCD, CLOCK, MAD, DDEES, CV, DOLV, DAND, PRAR, FLAM, PPT, 1/8, 1/8T, 1/16, 1/16T, 1/32. These secondary functions are typically accessed by holding down a shift or function button (not explicitly labeled in OCR but common for such modules) and pressing the step button.

4.6 Input/Output Ports

- **IN / OUT (3.5mm jacks):** General purpose input/output jacks for various control signals.
- **CV IN:** Control Voltage input for external modulation.
- **RESET IN:** Input for an external reset signal to restart the sequence.
- **MIDI IN / OUT (DIN connectors):** Standard MIDI input and output for synchronization and control with external MIDI devices.

5. Basic Operation

5.1 Powering On/Off

Ensure the module is correctly installed in your Eurorack case and the power supply is connected. Power on your Eurorack case. The RS-9 will power on automatically. To power off, simply power down your Eurorack case.

5.2 Setting Tempo

The tempo can be set using the main tempo knob or by pressing the TAP button multiple times. The current tempo will be displayed on the LED screen. You can also select external sync sources (MIDI, USB, TRIG) via the SYNC section.

5.3 Creating a Basic Pattern

1. Press the **PATTERN** button to enter Pattern mode.
2. Select an empty pattern slot (if available) or an existing pattern to edit.
3. Press the **STEP** button to enter Step mode.
4. Select a drum channel (e.g., by pressing a corresponding track button if available, or cycling through

channels).

5. Press the **1-16 step buttons** to activate or deactivate triggers for that channel at specific steps.
6. Use the **ACCENT** button to add accents to steps.
7. Press the **Play/Pause** button to hear your pattern.
8. Press **SAVE** to store your pattern.

6. Advanced Features

6.1 Pattern and Song Modes

The RS-9 allows you to create multiple patterns and chain them together into songs. In **PATTERN** mode, you can select, edit, copy, and erase individual patterns. In **SONG** mode, you can arrange patterns in a specific order to create longer sequences or full tracks.

6.2 Synchronization Options

The **SYNC** section provides flexible timing options:

- **INT (Internal):** The RS-9 uses its own internal clock.
- **MIDI:** Synchronizes to an external MIDI clock received via the MIDI IN port or USB.
- **USB:** Synchronizes to an external clock received via the USB connection.
- **TRIG:** Synchronizes to an external trigger pulse.

Adjust **SWING** to add a rhythmic feel and **PROB (Probability)** to introduce variations in trigger playback. **FLAM** adds a quick double-trigger effect.

6.3 Trigger and Accent Outputs

The 10 dedicated trigger and accent outputs allow for precise control over individual drum sounds. The accent outputs provide a higher voltage pulse, which can be used by compatible drum modules to create dynamic variations in sound.

6.4 CV Output

The single CV output can be assigned to control various parameters within the RS-9 or sent to other Eurorack modules for modulation. Consult the settings menu for CV assignment options.

7. Maintenance

The Behringer RS-9 requires minimal maintenance. Keep the module clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Ensure all connections are secure and free from dust. Periodically check for firmware updates on the Behringer website to ensure optimal performance and access to new features.

8. Troubleshooting

- **No Power:** Check Eurorack power supply connection and ensure the red stripe on the ribbon cable is correctly aligned. Verify your Eurorack case is powered on.
- **No Sound/Triggers:** Ensure patch cables are correctly connected from RS-9 outputs to drum module inputs. Verify drum modules are powered and configured correctly. Check that patterns are programmed and the sequencer is playing.

- **Incorrect Tempo/Sync Issues:** Verify the selected sync source (INT, MIDI, USB, TRIG) matches your setup. If using external sync, ensure the external device is sending a clock signal.
- **Buttons Unresponsive:** Try restarting the module by powering off and on your Eurorack case. If issues persist, contact support.

9. Specifications

Module Type	Rhythm Sequencer
HP Size	52HP
Drum Channels	10
Trigger/Accent Outputs	10
CV Output	1
Max Steps per Sequence	64
Modes	Pattern, Song
Sync Options	Internal, MIDI, USB, Trigger
Item Weight	1.58 pounds
Product Dimensions (L x W x H)	12.2 x 6.5 x 3.05 inches
Material	Metal
Connector Type	USB

10. Warranty and Support

For warranty information and technical support, please refer to the official Behringer website or contact your authorized Behringer dealer. Keep your proof of purchase for warranty claims.