



---

# Bass Synth

---

Turn your bass into a filthy funk machine with the MXR Bass Synth. It serves up intergalactic grooves and vintage analog-style vibes with a range of monophonic synth tones that call back to hits from Stevie Wonder, Michael Jackson, Parliament Funkadelic, and more. Designed with low-end professor and tone connoisseur Ian Martin Allison, this powerhouse of a pedal offers thunderous sub-octave, expressive envelope, and lush modulation effects with killer tracking and sustain.

# Basic Operation

## Power

The MXR® Bass Synth requires a 9-volt (330 mA) center-negative power supply and can be powered by the Dunlop ECB003 9-volt adapter or the MXR® Iso-Brick™, the Iso-Brick™ Pro, and the Iso-Brick™ Mini Power Supplies. This pedal cannot be powered by a battery.

## Controls

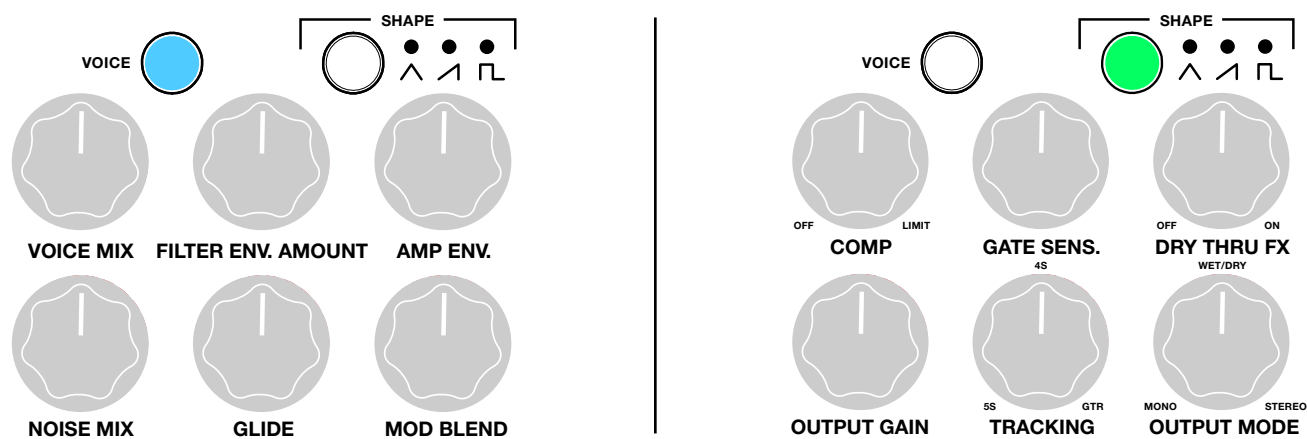
- 1 VOICE** button adds additional oscillators harmonically tuned for more complex tones
- 2 CUTOFF** knob sets the 4-pole resonant low-pass filter's cutoff frequency
- 3 MIX** knob sets the mix between dry and synth signals
- 4 SUB MIX** knob sets mix between the main synth and sub signals
- 5 JACKS**  
Input: Mono  
Output: TRS jack; allows for stereo output  
CTR: Expression/tap input or right-channel output  
Power: The power jack requires 9 VDC, center negative at 330 mA
- 6 FOOTSWITCH**  
Engage/bypass effect: Tap the footswitch  
Scroll presets: Hold footswitch. Tap footswitch to advance through presets. To exit, hold footswitch again or simply wait for timeout



- 6 FOOTSWITCH (cont.)**  
Freeze current note: To configure freeze functionality, hold the footswitch down and rotate the RESONANCE knob to its max position. After configuring, holding the footswitch will hold or freeze the current synth note. To revert to preset scroll mode, hold the footswitch and rotate the RESONANCE knob to its min position
- 7 SHAPE** button selects oscillator waveform:  
Triangle: Subtle and smooth  
Sawtooth: Rich and aggressive  
Square: Fat, rubbery punch
- 8 ENVELOPE** knob controls the attack/decay times of the filter envelope—lower settings give a fast, plucky response, while higher settings create a slow, sweeping effect. When fully counterclockwise, the envelope filter is off
- 9 MOD** knob sets the amount of modulation
- 10 RESONANCE** knob boosts gain at cutoff frequency, adding a sharper, more expressive effect at higher settings
- 11 PRESETS** button selects one of 8 different presets

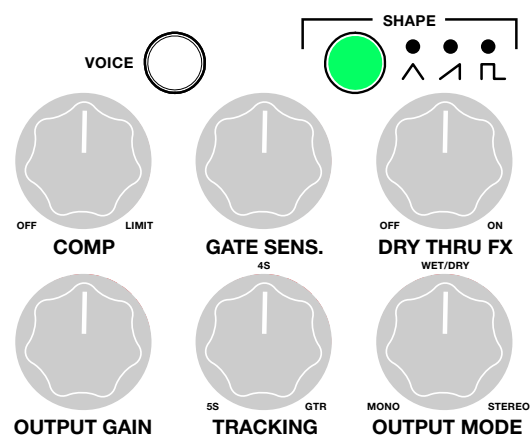
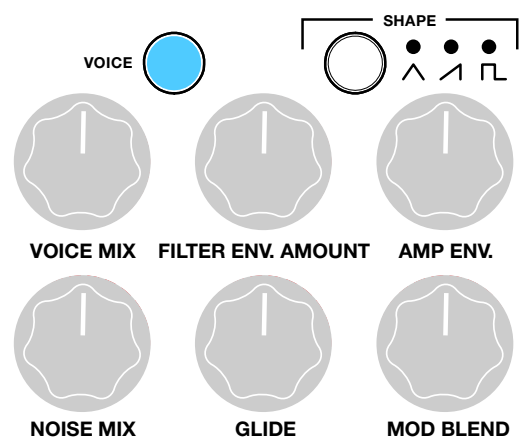
# Secondary Parameters

Press and hold either the VOICE or SHAPE buttons while changing another control to access an alternate set of options. Parameters under the VOICE menu affect the sound of the synth patch. Each can be saved with a preset and controlled with an expression pedal. Parameters under the SHAPE menu are more utility settings than effects. None can be controlled by an expression pedal. Some of them are global, affecting all presets.



Knob	Voice	Shape
Mix	<b>VOICE MIX</b> Sets the mix between the main oscillator and oscillators added when VOICE button is engaged. At the minimum setting, voice oscillators are removed from the signal.	<b>COMPRESSION</b> Sets the amount of compression, from none to tight, punchy limiting. Affects how the synth responds to your playing intensity.
Sub Mix	<b>NOISE MIX</b> Sets the mix between the oscillators and the noise generator.	<b>OUTPUT GAIN</b> Adjusts the output gain +/- 18 dB, with 0 dB at noon.
Cutoff	<b>FILTER ENVELOPE AMOUNT</b> Sets the direction and width of the filter envelope (set by the ENVELOPE knob). Above noon, the envelope opens the filter; and below noon closes the filter for a ducking effect.	<b>GATE SENSITIVITY (GLOBAL)</b> As you play, the pedal automatically determines your average signal level. This setting sets how responsive the pedal is when the input signal is lower than this level. The default sensitivity setting is designed for most playing situations, but dynamic or legato playing may fare better with higher sensitivity settings. Note: the sustain of a note is independent of sensitivity setting. A sounding note will sustain for about as long as it's ringing out on your instrument.

# Secondary Parameters (cont.)



Knob	Voice	Shape
RESONANCE	GLIDE Sets the time it takes to get from one note to another for a blurred, legato effect.	TRACKING (GLOBAL) Determines how the synth signal responds to your instrument's range of frequencies to ensure accurate note tracking.  <b>5-STRING BASS:</b> Default, fully counterclockwise. Tracks low B to high C on a 24-fret 6-string bass.  <b>4-STRING BASS:</b> 12 o'clock. Has a faster response compared to 5 String Bass mode, but it only tracks down to a low E.  <b>GUITAR:</b> Fully clockwise. Tracks the range of a 24-fret guitar in standard tuning.
ENVELOPE	AMP ENVELOPE Sets the fade-in time (or attack time) of each note.	DRY THRU FX When on (fully clockwise), the dry signal is sent through filter, chorus, compression, and gate along with the synth signal. This blends the dry and synth signals together more fully, allowing the natural articulation of your instrument to come through when using the MIX knob.
MOD	MOD BLEND Sets the mix of chorus and filter LFO modulation.	OUTPUT MODE (GLOBAL) Selects how the pedal's output signal is routed to your amp or interface.  <b>MONO:</b> Default, fully counterclockwise. True bypass.  <b>WET/DRY:</b> 12 o'clock. In this mode, the wet signal is on the left channel (tip) and dry on the right channel (ring). Buffered bypass.  <b>STEREO:</b> Fully clockwise. In this mode, the pedal creates a stereo field by panning the voice oscillators and engaging a stereo filter and chorus effect. Buffered bypass.

---

# Presets

This pedal features eight different presets (four green, four red) plus a live mode, which is indicated when all preset LEDs are off. Live mode represents current knob settings and automatically saves switch and secondary parameter states. When a preset is changed from its saved state, its LED will softly flash.

## GREEN PRESETS

<b>THRILLEGANES</b>	Inspired by Greg Phillinganes' amazing ARP 2600 work on Michael Jackson's "Thriller," this timeless octave-down sound is equally suited to pumping out '80s hits or contemporary bangers.
<b>WONDERFUL</b>	Based on Stevie Wonder's incredible left hand work on the TONTO synth, this sound gives you that short, funky resonant drop up and down the neck.
<b>LIZARD SYNTH</b>	Modeled on Herbie Hancock's use of the classic ARP Odyssey on his famous tune "Chameleon," this sound cranks up the resonance and hits that funky '70s sweet spot.
<b>SYNTHADELIC</b>	Based on Bernie Worrell's incredible Minimoog tone on "Flashlight," this octave-down sound is wide open and room filling.

## RED PRESETS

<b>SLEDGE</b>	Inspired by Tony Levin's incredible bass tone on Peter Gabriel's "Sledgehammer," this sound gives you that classic analog octave sound with a generous helping of compression and chorus. Play with a pick for maximum effect.
<b>ARMY OF SYNTH</b>	Modeled after the iconic synth bass line on Bjork's "Army of Me." Use an expression pedal for added intensity.
<b>NINE INCH SYNTH</b>	Based on Trent Reznor's incredible synth programming and tone on "Head Like a Hole," this sound is equally at home in a rock or dance music context.
<b>SYNTHMAU5</b>	Inspired by the sidechaining technique used in electronic music production, this preset draws you into a dark atmospheric zone akin to that often used by producer deadmau5. Try playing right on the beat with a quarter note bass drum pulse, and feel the kick almost trigger your bass notes.

---

## Presets (cont.)

---

### Scrolling Through Presets

You can scroll through presets using the onboard preset button, an external switch such as the MXR Split + Tap connected via the CTR jack, or the built-in footswitch.

When using an external switch, a “press” will forward scroll, while a “hold” will reverse scroll.

To use the built-in footswitch, hold the switch until the main LED soft flashes. Now, the footswitch will scroll to the next preset when tapped. The SHAPE LED will flash to display the current preset. Hold the switch again to exit preset scrolling or wait for the scroll menu to timeout.

---

### Resetting a Preset to Default Setting

To reset a preset to its default setting, first navigate to the preset you would like to reset. Then, hold the footswitch and preset button together for 5 seconds. The preset LED will quickly hard flash to confirm reset. In live mode, all preset LEDs will flash green after a reset.

---

### Saving a Preset

To save current settings into a preset, you must first copy the settings by holding down the preset button for 2 seconds. The preset LEDs will hard flash to confirm. Next, navigate to the preset bank you would like to save the settings to. Hold the preset button again for 2 seconds to save the copied settings to that bank. The preset LEDs will stop flashing.

To exit the copy/save menu without saving, simply alter the current preset. The menu will also eventually time out.

Note: You cannot save a preset into live mode.

---

### Resetting to Factory Default

Hold both the VOICE and SHAPE buttons simultaneously for 5 seconds while powering the pedal to perform a factory reset. A successful factory reset is indicated by the Bypass LED flashing quickly several times.

---

## Expression

Live mode and each preset can store its own expression state. To set a preset's expression behavior, set all parameters at both the heel and toe positions to your desired settings. Then, sweep the expression pedal to confirm desired behavior. Once expression settings are verified, follow the steps under Saving a Preset. Note that the heel down state is also the preset's state when no expression pedal is connected.

In live mode, expression states are saved automatically and retained while the expression pedal is connected. If the pedal is powered on without an expression pedal connected, the next time expression is connected, the heel position will be set to the current state of live mode.

Note that every time you enter live mode, the current knob settings are represented until you sweep the expression pedal. Changes to the live mode expression state will not be registered until the expression pedal is physically swept after entering live mode.

---

# CTR Jack

---

## Expression/Tap Input

Place the CTR side switch in the TAP/EXP position (towards the OUT jack) to use the CTR jack with an expression pedal via a TRS cable or external switch via a standard patch cable for preset scrolling. See [Scrolling Through Presets](#) for more information.

---

## Audio Output

Place the CTR side switch in the AUDIO position (towards the CTR jack) to use the CTR jack as output jack for the audio's right channel.

In this configuration, stereo output uses two TRS cables at the OUT and CTR jacks instead of one TRS cable at the OUT jack.

See [Output Mode](#) for more information.



---

# Specifications

Input Impedance	1MΩ
Output Impedance	100 Ω
Maximum Input Level	+5 dBV
Noise Floor	-97 dBV
Current Draw	330 mA
Power Supply	9 volts DC

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Unauthorized changes or modifications to this product could void the user’s authority to operate the equipment.

---

# End-User License Agreement

This End-User License Agreement ("EULA") is a legal agreement between (a) you, either as an individual or a single entity (hereinafter referred to as "You" or "Your") and (b) Dunlop Manufacturing, Inc. ("Dunlop") that governs Your use of any Software Product, installed on or made available by Dunlop for use with Your Dunlop product. The term "Software Product" means the electronic effect installed on or made available by Dunlop for use with Your Dunlop product and may include associated medial, printed material and "online" or electronic documentation.

YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA BY USING ANY PART OF THE SOFTWARE PRODUCT AND/OR THE DUNLOP PRODUCT. YOU ALSO ACCEPT THIS EULA IF YOU KEEP THE DUNLOP PRODUCT FOR 30 DAYS.

IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, DUNLOP IS UNWILLING TO LICENSE THE SOFTWARE TO YOU. IN SUCH EVENT, YOU MAY NOT USE THE DUNLOP PRODUCT CONTAINING THE SOFTWARE PRODUCT AND YOU SHOULD RETURN THE DUNLOP PRODUCT TO YOUR PLACE OF PURCHASE FOR A FULL REFUND, IF APPLICABLE.

1. GRANT OF LICENSE: Dunlop grants to You the following individual, personal, non-sub licensable, nonexclusive license to use one (1) copy of the Software Product, in object code form only, provided You agree to and comply with all terms and conditions of this EULA as it may be amended from time to time. You acknowledge that Dunlop retains ownership of the Software Product, any portions or copies thereof, and all rights therein throughout the world.

THE DUNLOP PRODUCT (INCLUDING THE SOFTWARE PRODUCT CONTAINED THEREIN) IS PROVIDED "AS IS" AND SUBJECT TO THE WARRANTY DISCLAIMERS AND LIMITATIONS OF LIABILITY SET FORTH BELOW.

2. RENTAL: You may not copy, rent, lease, distribute, assign or otherwise transfer rights to the Software Product; use the Software Product for timesharing or service bureau purposes or otherwise for the benefit of a third party.

3. TRANSFER: You may permanently transfer the rights granted to You under this Agreement only as part of a permanent sale or transfer of the Dunlop product containing the Software Product, provided You retain no copies, You transfer all of

the Software Product (including all component parts, the media and printed materials, any upgrades and prior versions, these licensing terms, and , if applicable, the Certificate(s) of Authenticity), and only if the recipient agrees to the bound to by the terms and conditions of this Agreement.

4. RESTRICTIONS: You will only use the Software Product for lawful purposes and in compliance with all applicable laws. You hereby agree to defend and indemnify Dunlop against any claim or action that arises from Your use of the Software Product in an unlawful manner.

5. LIMITATION ON REVERSE ENGINEERING: You will not, directly or indirectly, reverse engineer, decompile, disassemble or otherwise attempt to discover the source code or underlying ideas or algorithms of the Software Product; modify, translate, or create derivative works based on the Software Product. Nothing contained herein shall be construed, expressly or implicitly, as transferring any right, license or title to You other than those explicitly granted under this EULA. Unauthorized copying of the Software Product or failure to comply with the above restrictions will result in automatic termination of this Agreement and will constitute immediate, irreparable harm to Dunlop for which monetary damages would be an inadequate remedy, in which case injunctive relief will be an appropriate remedy for such breach.

6. SUPPORT: Dunlop provides the Software Product "AS-IS" and does not provide support services for it.

7. PROPRIETARY RIGHTS: All intellectual property rights in the Software Product and user documentation are owned by Dunlop or its suppliers and are protected by law, including but not limited to United States copyright, trade secret and trademark law, as well as other applicable laws and international treaty provisions. The structure, organization and code of the Software Product are the valuable trade secrets and confidential information of Dunlop and its suppliers. You shall not remove any product identification, copyright notices or proprietary restrictions from the Software Product or Dunlop product.

8. TERMINATION: This Agreement is effective until terminated. Dunlop may terminate this Agreement immediately, without prior notice or liability, if You breach any of the terms or conditions of this Agreement. All sections of this Agreement

---

# End-User License Agreement (cont.)

which by their nature should survive termination will survive termination, including, without limitations, warranty disclaimers and limitations of liability. Upon termination of this Agreement for any reason, You must destroy the Software Product and all of its component parts.

**9. NO WARRANTIES: WARRANTY DISCLAIMER** THE SOFTWARE PRODUCT IS PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND. The Software Product is offered on an “AS-IS” basis and Dunlop does NOT warrant that the functions contained in the Software Product will meet Your requirements or that the operation of the Software Product will be uninterrupted or error free. You should not use the Software Product for any applications in which failure could cause any significant damage or injury to persons or tangible or intangible property. DUNLOP DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THE ENTIRE RISK OF THE QUALITY AND PERFORMANCE OF THE DUNLOP SOFTWARE IS WITH YOU. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

**10. LIMITATION OF LIABILITY NOTWITHSTANDING:** ANYTHING CONTAINED IN THIS AGREEMENT OR OTHERWISE, DUNLOP WILL NOT BE LIABLE WITH RESPECT TO THE SUBJECT MATTER OF THIS AGREEMENT UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES OF ANY KIND. SOME STATES AND COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

**11. EXCLUSIVE REMEDIES:** The entire liability of Dunlop, its parent, affiliates and/or distributors and Your exclusive remedy for any breach of the EULA or for any other liability relating to the Software Product and/or the Dunlop product shall be, at

Dunlop’s sole option, (a) return of the amount paid (if any) for the Software Product and/or the Dunlop product, or (b) repair or replacement of the Software Product and/or the Dunlop product that is returned to Dunlop with a copy of Your receipt.

You will receive the remedy elected by Dunlop without charge, except that You are responsible for any expenses You may incur (i.e. cost of shipping of the Software Product and/or the Dunlop product to Dunlop). However, this remedy is unavailable if failure of the Software Product and/or the Dunlop product resulted from accident, abuse, misapplication, abnormal use or a virus.

**12. EXPORT RESTRICTIONS:** You acknowledge that the Software Product, or any part thereof, or any process or service that is the direct product of the Software are of U.S. origin. You agree to comply with all applicable international and national laws that apply to these products, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and/or other governments.

**13. MISCELLANEOUS:** The failure of either party to exercise in any respect any right provided for herein will not be deemed a waiver of any further rights hereunder. If any provision of this Agreement is found to be unenforceable or invalid, that provision will be limited or eliminated to the minimum extent necessary so that this Agreement will otherwise remain in full force and effect and enforceable. This Agreement will be governed by and construed in accordance with the laws of the state of California without regard to the conflict of law’s provisions thereof. Venue for any action brought shall be exclusively in the appropriate state and/or federal court located in San Francisco, California. Both parties agree that this Agreement is the complete and exclusive statement of the mutual understanding of the parties and supersedes and cancels all previous written and oral agreements, communications and other understandings relating to the subject matter of this Agreement, and that all modifications must be in writing and signed by both parties, except as otherwise provided herein. No agency, partnership, joint venture, or employment is created as a result of this Agreement and You do not have any authority of any kind to bind Dunlop in any respect whatsoever. In any action or proceeding to enforce rights under this Agreement, the prevailing party will be entitled to recover costs and reasonable attorneys’ fees. All notices under this Agreement will be in writing.