

MXR 11403000001

Jim Dunlop Power System

USER MANUAL

Model: 11403000001

Product Overview

The MXR MC403 Power System, developed in collaboration with Bob Bradshaw and the MXR design team, is an advanced power supply unit engineered for musical pedals and electronic devices. It is designed to power a wide array of equipment simultaneously, offering superior performance and quiet operation through high-quality, high-performance toroidal transformers.

This versatile unit can be integrated into pedal boards or rack-mounted using the included front mount bracket. All multi-tap outputs are fully isolated, linearly regulated, and protected against short circuits, ensuring reliable and safe power delivery. Constructed with a heavy-duty housing, the MC403 is built for durability in demanding road or studio environments.



Figure 1: Front view of the MC403 Power System, showing the various power outputs and controls.

Key Features:

- Powers multiple types of pedals and electronics concurrently.
- Suitable for both pedal board and rack-mounted installations.
- Features high-quality, high-performance toroidal transformers for quiet operation.
- Robust, heavy-duty housing ensures long-term durability.
- User-selectable power input: 115/230 VAC, 50-60 Hz.
- All multi-tap outputs are isolated, linearly regulated, and short-circuit protected.

Setup and Installation

Before connecting any devices, ensure the MC403 Power System is placed on a stable surface or securely mounted. The unit is designed for flexible installation on pedal boards or within a standard 1U rack space using the provided front mount bracket.

Power Input Selection:

The MC403 features a user-selectable voltage switch on the rear panel. Before plugging the unit into a power outlet, verify that the switch is set to the correct voltage for your region (115 VAC for North America, 230 VAC for most of Europe and other regions). Incorrect voltage selection can damage the unit.



Figure 2: Rear panel of the MC403, showing the AC power input and the 115/230 VAC selector switch.

Connecting Devices:

Connect your pedals and electronic devices to the appropriate output jacks on the front panel. The MC403 offers a variety of isolated outputs:

- **9VDC Outputs:** For standard pedals requiring 9-volt DC power.
- **18VDC Outputs:** For pedals requiring 18-volt DC power.
- **9VAC Outputs:** For devices requiring 9-volt AC power.
- **Adjustable DC Outputs:** Two outputs with adjustable voltage (6.5-15.0 VDC) and current (up to 200mA). Use the small adjustment knob and the adjacent switch (HIGH/LOW) to set the desired voltage.

Always ensure that the voltage and current requirements of your device match the output you are connecting it to. Using an incorrect voltage can damage your equipment.

Operating Instructions

Once all connections are made and the voltage selector is correctly set, plug the MC403 into a wall outlet. Turn on the unit using the ON/OFF switch located on the front panel. The indicator LEDs next to each output will illuminate, confirming power delivery.

Adjustable Outputs:

The two adjustable DC outputs provide flexibility for pedals with specific voltage needs. To adjust the voltage:

1. Ensure the unit is powered off or the specific output is not connected to a sensitive device.
2. Use a small screwdriver to turn the "ADJ" knob to fine-tune the voltage.
3. Flip the adjacent switch to select between HIGH (10.0-15.0 VDC) and LOW (6.5-10.0 VDC) ranges.
4. It is recommended to use a multimeter to verify the exact voltage output before connecting your device.

The isolated outputs prevent ground loops and noise, ensuring a clean power signal to your effects.

Maintenance

The MC403 Power System is designed for minimal maintenance due to its robust construction. To ensure optimal performance and longevity:

- **Cleaning:** Disconnect the unit from power before cleaning. Use a soft, dry cloth to wipe down the exterior. Avoid using abrasive cleaners, solvents, or excessive moisture.
- **Ventilation:** Ensure adequate airflow around the unit, especially if rack-mounted, to prevent overheating. Do not block ventilation openings.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep power cables and patch cables organized to prevent strain on the connectors and accidental disconnections.

Troubleshooting

If you encounter issues with your MC403 Power System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power to unit / LEDs off	Unit not plugged in; Power switch off; Incorrect voltage selection; Blown fuse (internal)	Ensure power cable is securely connected and wall outlet is active. Turn ON/OFF switch to ON. Verify 115/230 VAC selector is correct. If still no power, contact support.
Device not powering on from an output	Incorrect voltage/current output selected; Faulty cable; Device malfunction; Output overloaded/short-circuited	Check device's power requirements against the output specifications. Try a different output or cable. Ensure the device is functioning correctly. The outputs are short-circuit protected; disconnect and reconnect the device.
Humming or noise in audio signal	Ground loop; Interference from other equipment; Faulty power cable	Ensure all outputs are isolated. Check for proper grounding of all audio equipment. Try different power outlets. Replace power cables if suspected faulty.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

Specifications

Feature	Detail
Model Number	MC403 (11403000001)
AC Input	User Selectable: 115/230 VAC, 50-60 Hz
Output Type	Isolated, Linear Regulated, Short-Circuit Protected
Output Configuration	8 x 9VDC outputs (max 80mA each) 4 x 18VDC outputs (max 80mA each) 2 x 9VAC outputs (max 800mA each) 2 x Adjustable DC outputs (6.5-15.0 VDC, max 200mA each)
Item Weight	1.75 pounds (0.79 kg)
Product Dimensions	5.5 x 4.4 x 2.7 inches (13.97 x 11.18 x 6.86 cm)
Housing	Heavy-duty



Figure 3: Bottom view of the MC403, displaying detailed electrical specifications and certifications.

Warranty and Support

The MXR MC403 Power System is built with a heavy-duty housing designed for years of rugged road or studio use, reflecting its high-quality construction and durability.

For specific warranty information or technical support, please refer to the official MXR or Jim Dunlop website, or contact their customer service department directly. Contact details are typically found on the manufacturer's official product page or within the product packaging.

For general inquiries, you may visit the [MXR Store on Amazon](#).

Related Documents - 11403000001

<div><div><div></div><div>MXR</div></div><div>M231</div></div> <div><div>MXR TRS Split + Tap</div><div>The MXR Split + Tap is a footswitch that combines a passive TRS splitter with a responsive tap tempo control in a single compact yet robust unit.</div><div>jmdunlop.com/m231</div></div>	<div><div><div><div><div></div><div>MXR M231 TRS Split + Tap: Features and Operation Guide</div></div><div><div>Guide to the MXR M231 TRS Split + Tap footswitch, detailing its features, connections, and operational modes for splitting stereo signals, combining mono signals, and controlling tap tempo or effect parameters.</div></div></div></div></div>
<div><div><div></div><div>MXR</div></div><div>MX100</div></div> <div><div>Rockman X100 Analog Tone Processor</div><div>The MXR Rockman X100 Analog Tone Processor revises the signature sonic character of Tom Scholz's celebrated headphone amp and signal processor in pedal form. Offering crystalline cleans, crunchy harmonics, and shimmering modulation, the original X100 unit defined the sound of arena rock. This faithful, all-analog recreation features the same four tonal presets, carefully calibrated compression for a clear sound whether clean or distorted, the same bucket-brigade charging as the original, both mono and stereo modes, and optional external mode switching for an enhanced user experience.</div><div>jmdunlop.com/rmx100</div></div>	<div><div><div><div><div></div><div>MXR Rockman X100 Analog Tone Processor - Product Overview and Specifications</div></div><div><div>Detailed information on the MXR Rockman X100 Analog Tone Processor, including its features, controls, power requirements, setup options, and technical specifications. A faithful recreation of the iconic Rockman sound.</div></div></div></div></div>
<div><div><div></div><div>MXR</div></div><div>MB301</div></div> <div><div>Bass Synth</div><div>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.</div><div>jmdunlop.com/rmb301</div></div>	<div><div><div><div><div></div><div>MXR Bass Synth MB301 User Manual</div></div><div><div>A comprehensive guide to the MXR Bass Synth MB301 pedal, detailing its features, controls, presets, operation, and specifications for bassists seeking vintage analog-style synth tones.</div></div></div></div></div>
<div><div><div></div><div>MXR</div></div><div>RR104</div></div> <div><div>Randy Rhoads Distortion+</div><div>A tribute to Randy Rhoads' monumental legacy, this pedal has been painstakingly matched to the legend's own MXR Distortion+ to recreate the same raw, overdriven tones heard on his most beloved hits.</div><div>jmdunlop.com/rrr104</div></div>	<div><div><div><div><div></div><div>MXR Randy Rhoads Distortion+ Guitar Pedal - User Manual and Specifications</div></div><div><div>Comprehensive guide to the MXR Randy Rhoads Distortion+ (RR104) guitar effects pedal, covering its external controls, basic operation, power requirements, and technical specifications. Learn how to achieve classic distortion tones.</div></div></div></div></div>
<div><div><div></div><div>MXR</div></div><div>CSP039</div></div> <div><div>Duke of Tone Overdrive</div><div>Designed in conjunction with indie pedal builder Analog Man, the MXR Duke of Tone Overdrive is for players who want to add a touch of earthy grit to their rig while allowing the natural tone and feel of their high-end gear to shine.</div><div>jmdunlop.com/cog039</div></div>	<div><div><div><div><div></div><div>MXR Duke of Tone Overdrive CSP039: Features, Operation, and Specifications</div></div><div><div>Explore the MXR Duke of Tone Overdrive (CSP039), a guitar effects pedal developed with Analog Man. This guide details its external controls, basic operation, power requirements, and technical specifications.</div></div></div></div></div>
<div><div><div></div><div>MXR</div></div><div>M249</div></div> <div><div>Super Badass Dynamic O.D.</div><div>The MXR Super Badass Dynamic O.D. will give any rig as much extra bite as you need while preserving your existing tonal dynamics. With MOSFET clipping diodes for dynamic tone shaping, this guide covers its external controls, basic operation, power requirements, and technical specifications.</div><div>jmdunlop.com/m249</div></div>	<div><div><div><div><div></div><div>MXR Super Badass Dynamic O.D. (M249) Guitar Overdrive Pedal</div></div><div><div>Explore the MXR Super Badass Dynamic O.D. (M249), a versatile overdrive guitar pedal featuring MOSFET clipping diodes for dynamic tone shaping. This guide covers its external controls, basic operation, power requirements, and technical specifications.</div></div></div></div></div>

no relevant documents