

This is the first pass at generating a user manual. It was done so we could submit the document to the testing agency for end user application information.  
This will eventually need to have some word smithing, formatting, and graphics attention to be acceptable for public consumption. More input is requested!!  
Thanks,  
Sam

**WARNING: READ THIS FIRST BEFORE OPERATING!**

## **MC-403 MXR System Power User Manual**

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MC-403 Manual

### **Introduction**

The MC-403 Power System—a collaboration between Bob Bradshaw and the MXR design team—is truly the ultimate power supply. The MC-403 powers more types of pedals and electronics at one time than any previous power supply unit available. High quality, high performance toroidal transformers insure quiet operation with superior performance capabilities. Designed for maximum flexibility, the MC-403 can be used on pedal boards or rack mounted in a single rack space with the front mount bracket (included). All multi-tap outputs are completely isolated, linear regulated, and short-circuit protected to insure reliable operation. Enclosed in a heavy-duty housing, the MC-403 is designed for years of rugged road or studio use.

### **Hardware Included:**

One (1) 19" rack front panel for mounting the MC-403 in an effects rack.

Two (2) pedalboard mounting brackets for securing the MC-403 to a pedalboard with wood screws (not included).

Twelve (12) pcs. of M3.0 x .5 thread 6mm long Phillips head hardware mounting machine screws (for rack front panel or pedalboard mounting brackets).

Twenty (20) cables – (Cable assembly kit Part#93403006174)

4 Cables 2.1 x 5.5mm black right angle to straight 1' long

8 Cables 2.1 x 5.5mm black right angle to straight 2' long

4 Cables 2.1 x 5.5mm black right angle to straight 3' long

2 Cables 2.5 x 5.5mm red right angle to straight 4' long

1 Cables 2.1 x 5.5mm to 3.5mm black straight 2' long

1 Cables 2.1 x 5.5mm to 3.5mm black straight 3' long

One input AC cord with appropriate connector for region of operation:

AC Power cords: (One included for country shipped to)

- USA/Canada

NEMA 5-15P AC male plug,

IEC 60320 C13 AC female connector,

SJT 18AWG\*3C, 2 meters in length (78.7 inches)

- Europe

CEE 7/7 AC male plug,

IEC 60320 C13 AC female connector,

H05VV-F 0.75\*3C, 2 meters in length (78.7 inches)

- **Japan**

JIS C 8303 AC male plug,  
IEC 60320 C13 AC female connector,  
VCTF 0.75\*3C, 2 meters in length (78.7 inches)

- **UK**

NEMA 5-15P AC male plug,  
IEC 60320 C13 AC female connector,  
H05VV-F 0.75\*3C, 2 meters in length (78.7 inches)

- **AUS**

SAA power cord, AS3112 male AC plug, 10 Amps, IEC 60320 C13 AC female connector, 2 meters in length (78.7 inches)

## **Output Guide (Please observe the plug polarity before plugging into any effect!)**

Two (2) adjustable 6.5VDC switchable through 15VDC at 200mA.

Cable: 5.5mm x 2.1mm female *(This requires a reverse polarity cable which can be built by the end user or can be ordered through the Dunlop Custom shop.)*

Examples of pedals that can be powered from these outputs:

**Radial™ Tonebone™ pedals** that require 15VDC 400mA, **center pole positive** (Red range button is in the High position and the range Adjustment (ADJ) knob is fully clockwise).

Use with transistor based distortion/fuzz/overdrive pedals to simulate a dying battery type of tone. (Red range button in the Low position and the range Adjustment (ADJ) knob is fully counter-clockwise. Please experiment with the Adjustment range until desired effect is reached).

Two (2) 9VAC outputs, color coded red, each capable of .8 amps.

Cable: 5.5mm x 2.5mm female connector, Red.

Examples of pedals that can be powered from these outputs:

Line 6® Stomp Modeler pedals and POD® units (except Pocket POD®).

Eight (8) isolated 9VDC outputs at 80mA.

Cable: 5.5mm x 2.1mm female connector, Black.

Examples of pedals that can be powered from these outputs:

MXR® pedals requiring the Dunlop ECB-003 9-volt adaptor (Phase 90, Zakk Wylde Overdrive, Carbon Copy Analog Delay, etc.)

Crybaby® pedals requiring the Dunlop ECB-003 9-volt adaptor (GCB-95, 105Q Bass Wah, Dimebag Signature Wah, etc.)

Dunlop® UV-1SC Univibe® Stereo Chorus

Dunlop® JD-4S Rotovibe® Expression Pedal

Way Huge® Electronics requiring the ECB-003 9-volt adaptor

Boss® or other brand pedals that require the PSA Adaptor

Electro-Harmonix® pedals requiring the 9DC-100

Maxon® Pedals requiring the AC210N adaptor

Ibanez® pedals requiring the AC109 adapter

Radial™ pedals requiring 9 VDC - 40mA center negative adaptors

Line 6® ToneCore® series

DigiTech® pedals requiring the PSR200R power supply

Four (4) isolated 18VDC outputs at 125mA.

Cable: 5.5mm x 2.1mm female connector, Black.

Examples of pedals that can be powered from these outputs:

MXR® Pedals requiring the Dunlop ECB-004 18-volt adaptor (M-117R Flanger, M-134 Stereo Chorus, M-181 Bass Blowtorch, M-108 10-Band EQ etc.)

Crybaby® Pedals requiring the Dunlop ECB-004 18-volt adaptor (Slash Signature Wah)

Dunlop® Univibe® UV-1

Before using your MC-403 Power System, please read the DIRECTIONS and the OUTPUT GUIDE thoroughly.

## **DIRECTIONS**

To begin using your MC-403 Power System:

1. Plug the included AC power cord into the "AC IN" jack, located on the right side of the MC-403 (as viewed from the top, facing the output jacks). Then plug the AC cord into a reliable wall outlet. Flip the Power switch on the face of the MC-403 on the right hand side. The red LED on the rear right hand side will light up.
2. Before plugging in any of your pedals or stomp boxes, please check the **Output Guide** to make sure you are using the correct output jack and cable. The cables that are provided with the MC-403 support the industry standard connection of positive (+) barrel and negative (-) center. If your effects unit is configured differently, or if you're not sure, **DO NOT PLUG THE UNIT INTO THE MC-403!**
3. The LED above the output jack in use will illuminate RED to indicate power is being supplied to the pedal.
4. An AC auxiliary output is provided on the right side of the MC-403 (as viewed from the top, facing the output jacks) labeled AC THRU. This can be used to power effects requiring AC power. **(This AC thru should not be used for any device that exceeds 200 WATTS)**

## **CAUTION: RISK OF ELECTRICAL SHOCK, OPERATE IN DRY LOCATION**

### **Specifications:**

MXR MC403 Power Supply

- Input capable of the following configurations:

(115) 100VAC-120VAC @ 47 – 63Hz, fuse 250V/1A E56092 or E221465. (Switch selectable)

(230) 200VAC-242VAC @ 47 – 63Hz, fuse 250V/.5 A E56092 or E221465. (Switch selectable)

- Outputs

All DC outputs are fold back current limited and will recover from shorting without affecting the other outputs

All DC outputs have over voltage protection

Eight (8) outputs 9VDC @ 80mA, 5.5mm x 2.1mm female connector, Black

Two (2) outputs, adjustable @ 200mA, 5.5mm x 2.1mm female connector, black

Two selectable ranges:

6.5 –10.5 VDC (Button in "HIGH" out position)

10.5 – 15 VDC (Button in "LOW" in position)

Range selection switch

Voltage adjustment, black shaft is potentiometer

Four (4) outputs 18 VDC @ 125mA, 5.5mm x 2.1mm female connector, Black

Two (2) outputs 9.0 VAC @ 800mA, 2.5mm x 5.5mm female connector, RED

•AC THRU IEC female connection 200 WATTS MAXIMUM. (This is hardwired to the input IEC connector so the voltages will be the same as the input IEC connection).

• LED power on indicator in front panel (visible through 19" rack mounting bracket)

• 19" Rack mount panel

• Measurements: 13.5" x 1.75" x 4"

• Weight: 5.8 Lbs. (With front panel)

Operating environment:

5°C up to 38°C non-condensing

Agency Compliancy:

FCC, CE, UL, CUL, JET or PSE

RoHS Compliant