

# CRUMAR<sup>®</sup>

## ELEVEN

### **11-Pin Universal Rotary Speaker Adapter**



## USER MANUAL

*Congratulations! You are now the owner of Crumar Eleven, 11-pin universal rotary speaker adapter, please read this manual in its entirety and keep it in a safe place for future reference! Have fun!*

*Since the dawn of electronic organs, the connection between the instrument and its speaker or tone cabinet had been conceived in the form of multipolar connector, able to bring audio but also power, power on/off signal and speed of rotation.*

*This kind of connector evolved during the years just to expand its capabilities besides being able to be compliant with voltage and safety regulations active in most countries.*

*Rotary speakers are not simply "speakers", they are active part of the sound that you can control with typical "slow", "fast" and "brake" positions of horn and drum to recreate "chorale" and "tremolo" effect.*

*Rotary speakers are beautiful pieces of equipment for the modern organist, they offer that "plus" to the tonewheel organ sound that is not always easy to achieve with digital simulations. But, during the years, too many standards arose and sometimes the connection between the organ, organ clone or keyboard to a real rotary speaker can be a nightmare: adapters, cables, custom-built interfaces and the need to replace them everytime you change your keyboard or your accessories. Finally something "universal".*

*With Eleven you have 2 ways to control the speeds of your rotary speaker, with an accessory such as a sustain pedal or a footswitch or using the midi protocol. Additionally Eleven is capable of managing audio with an internal solid state preamp and a variable gain, just to add that "crunchy" sound you may need.*

*Everything in a compact, sturdy metal box, ready for the road and the stage.*

**WHAT'S IN THE BOX?:**

- Crumar Eleven.
- 12v power supply.

**WHAT'S NOT INCLUDED?:**

- Midi cable.
- Accessories like sustain pedals, halfmoons, footswitches.
- 11-pin cable.
- Small screwdriver for gain regulation.

**CONNECTIONS AND CONTROLS:**

- 12V VDC IN: External power supply plug - please use original PSU provided with your Eleven to power it on.
- ACCESSORY IN: Jack in 6.35mm - plug here accessories used for control the speed of your rotary speaker: sustain pedals, dual rail footswitches, halfmoons.
- MIDI IN: 5 pin midi plug - plug here a midi cable from midi out of your keyboard or organ.
- AUDIO IN: Jack in 6.35mm - plug here audio jack from audio out of your keyboard or organ. This is a MONO plug so connect only one channel.
- 11-PIN OUT: 11 pins female connector - plug here the 11-pin cable that goes to your rotary speaker.
- GAIN: operate this control with a small screwdriver to increase/decrease the audio signal gain to your rotary speaker.
- 3 Positions selector: please set this selector to the kind of device you are planning to plug into the ACCESSORY jack: sustain, dual rail footswitch, halfmoon.
- 2 Positions selectors for A-B 1-2: with the combination of these two selectors, you can choose between 4 different selections for each accessory. See table:

<b>SUS</b>	<b>A1: Momentary Normally Open</b> <b>A2: Momentary Normally Closed</b> <b>B1: Latched Normally Open</b> <b>B2: Latched Normally Closed</b>	<b>MIDI</b> <b>MIDI</b>
<b>FS</b>	<b>A1: Crumar New - Common Ring</b> <b>A2: Crumar Old - Common Sleeve</b> <b>B1: Generic Momentary - Common Sleeve</b> <b>B2: Generic Latched - Common Sleeve</b>	<b>MIDI</b> <b>MIDI</b> <b>MIDI</b>
<b>HM</b>	<b>A1: Crumar - Common Ring</b> <b>A2: Crumar - Common Sleeve</b> <b>B1: Generic - Common Sleeve</b> <b>B2: Generic - Common Sleeve - Reversed</b>	

## **HOW DOES IT WORK?:**

We always suggest to make every connections before power Eleven on. Connect the 11-pin cable to Eleven and to your rotary speaker, plug the audio jack and plug your accessory or your midi cable.

**PLEASE NOTE:** "MIDI IN" or "ACCESSORY" is exclusive, you can't use both.

If you are planning to use midi, just be sure to select one of the 5 combinations on the table with the "**MIDI**" logo on them.

Eleven is set for midi control change 1 messages on every channel.

If you are planning to use an accessory, please be sure that your accessory type is listed in the table; just plug in, make the proper selection with the 3 way selector if it's a sustain pedal, a dual rail footswitch or an halfmoon and select the compatibility or the behaviour using the two 2 ways selectors.

Eleven doesn't have a power on/off button, just plug the power supply to wall AC plug, DC plug to 12VDC IN and Eleven will power on: red led will lit.

**PLEASE NOTE:** connecting power to ELEVEN will power on the rotary speaker too if the 11-pin cable is connected to it and if your rotary speaker is compliant with this feature.

Now you can try if everything is working as expected.

Last but not least, regulate the GAIN trimmer near the 11 pin out in order to reach the level or saturation desired. Normally saturation will start from 3/4 of trimmer's rotation.

**PLEASE NOTE: Eleven only works with 11-pin compatible rotary speakers. 5-pin, 6-pin (and others) speakers are not supported. Those "old-style" multipolar connectors can be dangerous carrying 110-240 volts!**

For more informations please visit: [www.crumar.it](http://www.crumar.it)

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Last update: May 2020.