

## Operation

The system operation should be quite straightforward.

Press the door chime button and the chime is sounded throughout the system.

When activated by pressing any of the three door buttons, the DC101 sends a command to the amp or controller to turn on or "override" all zones to a preset volume then runs the chime sound at a gain set by the installer.

After the door chime sound ends, all zones revert to their previous volume and input states.

Occasionally the system may become confused if a door chime was pressed while something else was going on in the command system of the controller or amplifier controller. In this case just change the input or shut the system down as desired from any keypad. If this does not work turn the power off then on to the controller or controller amp and the system will reset.

## Warranty

Knoll Systems warrants Illusion Amplifiers sold in the USA and Canada by authorized Knoll dealers to be free of defects in materials and workmanship. This warranty extends for three full years from the date of purchase by the original consumer. Any products returned to Knoll Systems and found to be defective by Knoll Systems within the warranty period will be repaired or replaced at Knoll Systems option, at no charge. Knoll Systems will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state-to-state.

DC101 size is 115 x 43x 107 mm (4.5"w x 1.7"h x 4.2"d).

## Knoll Systems

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# DC101

## Door Chime Installation Instructions v1.1



**Warning:** To be installed and/or used in accordance with appropriate electrical codes and regulations.

**Description:** The DC101 door chime module is specifically designed for use with the MVP44 and MVP64 controller-amps as well as the MR640 controller. It features connections for up to three lighted or non-lighted push button door buttons (front, side and rear door) with has four sound bank selections of three each (8 distinct chime sounds).

When activated by pressing any of the three door buttons, the DC101 sends a digital signal to the amp or controller to turn on or "override" all zones to a preset volume then runs the chime sound at a gain set by the installer. After the door chime sound ends, all zones revert to their previous volume and input states.

## Key Features:

- High quality door chime sound in all rooms.
- Chime sound of front, rear and side doors is installer or end user selectable in four different banks of chimes.
- Small size. Fits almost anywhere.
- Easy to install.
- Supplies power for lighted door buttons.
- Shipped with PS1202 power supply.

## Installation

The DC101 requires that door buttons are normally open, momentary style. Lighted buttons should be 12-24 volts that short out while the button is pushed. The system should only be installed with the amp-controller powered off and the mains power is unplugged.

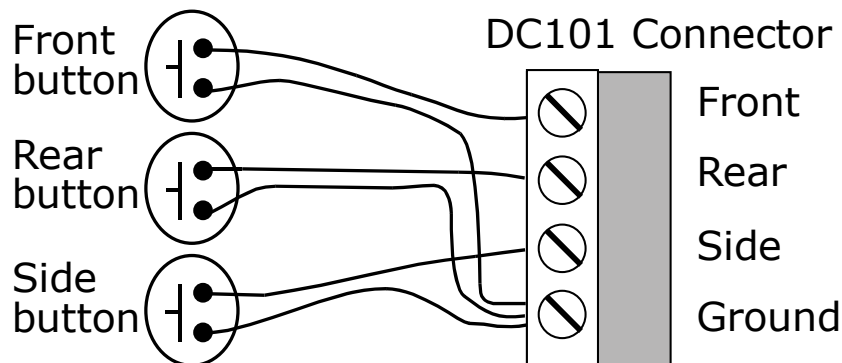
Power for the DC101 is from the PS1202 power supply (included) and is usually left on.

## Running wire

Any conventional two-conductor wire is adequate for most installations. Runs longer than 100 feet (33 meters) should use minimum 18-gauge wire, as the power to the lighted door buttons will be limited. Run a home run from each of the up to three door button locations to the DC101.

Connect the wires and install the door button as the manufacturers instructions advise.

**Caution:** In retrofit applications make sure the "old" power supply is disconnected from the door button wires or major system damage could occur.



## Connecting door buttons to the DC101

The detachable four-position connector on the DC101 is connected to the up to three door chime buttons. Each of the three positions run two different chime sounds depending on the bank position switch.

## Chime Sounds

All three chime sounds have to come from the same bank (in or out).

Bank	A-out B-out	A-in B-out	A-out B-in	A-in B-out
<b>Front</b>	Big ben	2 chimes	Knock x 4	Big ben
<b>Rear</b>	Chimes	Ding	Knock x 3	2 chimes
<b>Side</b>	½ big ben	Chimes	Knock x 2	Knock x 3

Connect one of each of the up to three wires from each of the door buttons to the detachable connector labeled "Ground". Most lighted door buttons do not have polarity.

Connect the conductor of one of the door buttons to front, rear or side position of the detachable DC101 connector.

Connect the conductor of the next button to one of the two open positions on the detachable connector.

## Connect the last conductor to the last open terminal on the detachable connector.

If two buttons are connected to the same detachable terminals, the DC101 will chime the same for the two buttons. It also may not provide enough power for lighted buttons.

Do not terminate or connect unused detachable terminal connections.

## Connecting the DC101 to the amp or controller

If the Source 4 input on the controller or controller amp is not being used skip the rest of this paragraph. If you are still reading this, then connect the stereo source input planned for Source 4 to the "In" RCA jacks on the DC101 chime module.

Next connect the DC101 "Out" RCA jacks to the controller or controller-amp Source 4 inputs using a gold stereo RCA wire.

If this installation has more than one controller and/or controller-amp use good quality Y cords to connect each of the controller Source 4 jacks (in parallel) to the DC101 stereo jacks labeled out.

Next connect the DC101 data port to the controller or controller-amp data port using the supplied 3.5mm stereo jack/cable.

## DC101 Power

Using the provided PS1202 power supply connect the power supply to the DC101 and plug the power supply into full time unswitched power. If the power is switched off then the door chimes will not work!

## Setting the gain.

The controller or amp-controller should be fully installed with speakers to test it and set the gain. We suggest that the DC101 gain be turned down before testing the door chimes.

Turn the controller or controller amp on to standby and any extra amps connected into the system. Have someone push the door button and listen to the level. Adjust it as desired. After adjusting the level it is important to check all of the other zones to hear if they are being overloaded by the chime sound. If they are, then the DC101 gain (of the whole system) has to be lowered.