

MAGNEPLANAR® CC3

Instruction Manual

White Bear Lake, Minnesota

www.magnepan.com

Magneplanar CC3 Owner's Manual

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1. **INTRODUCTION / GENERAL DESCRIPTION**

Congratulations on your purchase of the Magneplanar® CC3 Center Channel Loudspeaker. The Magneplanar CC3 was conceived and designed for perfectionists. The CC3 consists of a curved, two-way planar magnetic driver. Due to the elegant simplicity and ruggedness of the design, the Magneplanar CC3 Center Channel will give many years of trouble-free service.

2. **CARTON CONTENTS**

- 1 - CC3 Center Channel Loudspeaker
- 1 - 1 Ohm Resistor
- 1 - 4 Amp Normal Blow Fuse
- 1 - Hex Wrench
- 1 - Speaker Logo
- 1 - Owner's Manual

3. **PACKAGING**

Save all packaging. If you ever need to ship the CC3 it can be shipped safely only in the original packaging. Should you discard it, packaging is available from Magneplanar.

4. **HOOKUP**

The CC3 employs a unique, high-current connector. To install speaker cable, simply strip approximately ¼-inch of insulation from the speaker cable end, insert the cable tighten the set screw. Cables terminated with banana plugs or pins may also be used. For cables terminated with spade lugs, spade lug adapters are available from your Magneplanar dealer.

Proper phasing is critical in obtaining good performance from your home theater system. Double check all of your connections to be certain the left, right, and center speakers are all connected in phase. The left, right, and center speakers are usually placed equal distance to the listener for correct time alignment.

5. **INSTALLATION AND PLACEMENT**

A) *GENERAL*

The CC3 is designed for use on top of a TV, in or on top of a cabinet. For free-standing applications where the CC3 will be set on a speaker stand, call Magnepan for special instructions for this type of installation.

The CC3 may be placed on top of a TV monitor as shown in Figure A. Magnetic shielding is not required. To achieve the smoothest vertical response, rotate the adjustment feet located on the bottom of the speaker. Adjust until the CC3 is aimed approximately at the listener's head, as shown in Figure A.

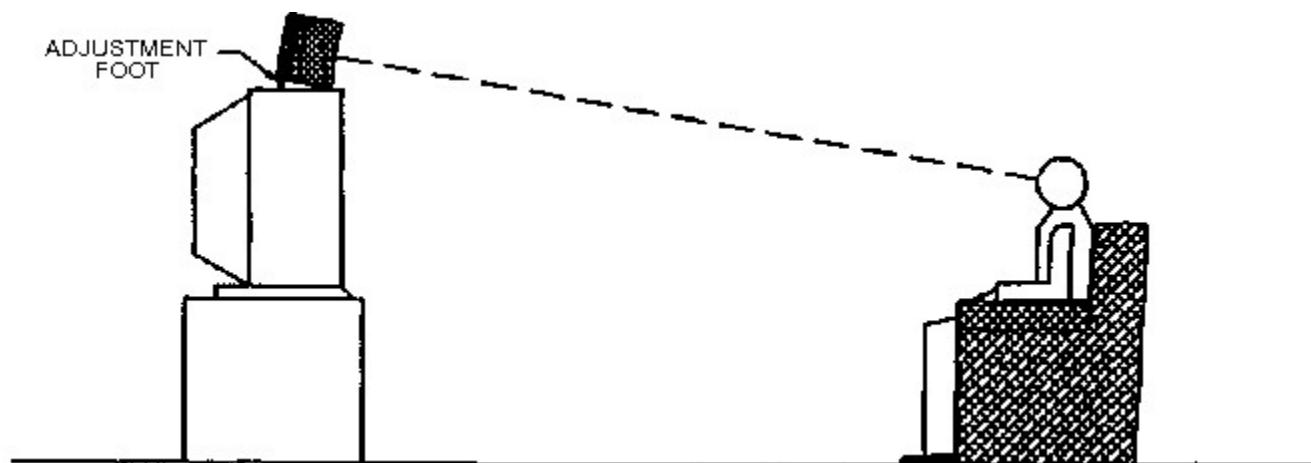


FIGURE A

B) *INSTALLATION IN A CABINET*

The CC3 may be placed above or below the TV monitor in a cabinet. If the CC3 is placed in an enclosed part of the cabinet, a space of 12" or more is required behind the CC3 for damping material. A special damping material is required, which is available from Magnepan for a small charge.

Starting at the rear of the cabinet, LOOSELY pack insulation in the cavity behind the CC3. Leave an empty space of about 6 inches between the rear of the CC3 and the insulation.

If the speaker is placed below the TV or screen, the speaker can be tilted upward by removing the 2 existing adjustable feet. Locate the front T nut shown in the following diagrams. Use a hot soldering iron to burn a hole in the fabric to allow installation of an adjustable foot in the front T nut.

Whenever possible, the rear of the cabinet should be vented or left open to allow the rear wave from the CC3 to escape.

Again, for the smoothest response, tilt the speaker to aim it approximately at the listener's head as shown in Figure A.

C) *INSTALLATION USING BUILT-IN "T" NUTS*

As shown below, there are 3 "T" nuts built into the top and bottom of the CC3, at the designated locations. These built-in T nuts allow hanging or any other type of installation you may devise. CAREFULLY burn a hole in the cloth with a hot soldering tip or a method that will seal the hole in the cloth. Eye-bolts or hooks may be installed in the built-in nuts, and use ¼-inch X 20-inch threads.

D) *DAMPING*

When the CC3 is placed close to a rear wall, the sound quality can usually be improved with a damping material, such as a wall hanging, behind the speaker.

6. **PROCESSOR SETTINGS**

Set the processor center channel for "small" center channel speaker. If your processor provides variable crossover points for "small" center channel speaker, try crossover points between 100-200 Hz. Set the processor for "large" left/right speakers (if you have Magneplanar on-wall speakers, such as MMG Ws or MC1s, set the processor for "small" left/right speakers.

Set the processor for "no subwoofer". Even if you are using a subwoofer, you will get better performance from your MMG C by using the "no subwoofer" setting on the processor. If you want an explanation for this unusual set up procedure, please call Magnepan.

Connect your subwoofer to the left/right preamp outputs of your receiver or processor. Set the subwoofer crossover points to the lowest frequency setting. Move the crossover point slowly to a higher frequency as you are listening to music. When the subwoofer overlaps with the Magneplanar, the bass will become "muddy". When this happens, lower the crossover point.

7. **AMPLIFICATION**

WARNING: The CC3 is a 4 ohm speaker. Be certain the amplifier or receiver you are using is capable of driving a 4 ohm load. If you are uncertain, call the manufacturer of the amplifier.

8. **OPTIONAL TWEETER ATTENUATION**

The CC3 is provided with the means to reduce the output level of the tweeter section. If the surrounding walls of the listening room are exceptionally reflective, the overall perceived acoustical balance of the speaker will be tipped towards a "hot" high end. Attenuating the tweeter can help remedy this problem.

Attenuation is accomplished by insertion of a simple, non-inductive resistor in series with the tweeter (see Figure B). Replace the jumper with the appropriate resistor to obtain the desired tweeter attenuation (typically 1 ohm for most rooms). The 1 ohm resistor provided will attenuate the tweeter 1 - 2dB. Other values are available from your Magneplanar dealer.

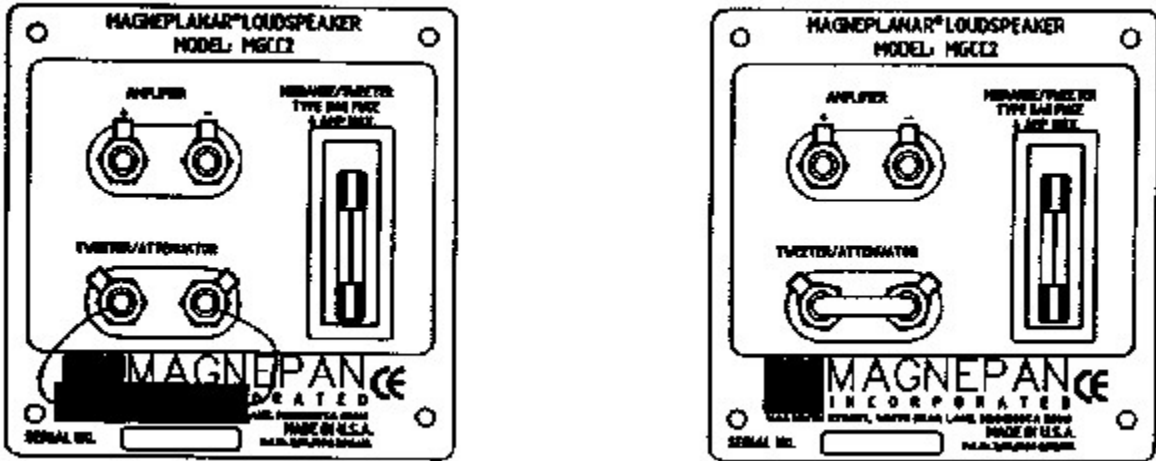


Figure B

9. SERVICE AND SHIPPING

In the unlikely event you should need service for your CC3 Loudspeaker, we recommend you return it through your dealer. He is experienced in providing service and can assist you if the speaker must be returned to the factory. If you determine you need to return it directly to Magnepan, ship the speaker freight prepaid to:

Magnepan, Incorporated
1645 Ninth Street
White Bear Lake, MN 55110

Include a note describing the nature of the problem. Please include your name, address, and a daytime telephone number.

10. **SPECIFICATIONS**

<u>System Description:</u>	Curved, two-way planar magnetic dipole loudspeaker
<u>Midrange Radiating Area:</u>	155 Sq. In.
<u>Quasi Ribbon Tweeter Size:</u>	31" x 2-1/2"
<u>Frequency Response:</u>	80Hz to 20kHz +/- 3dB
<u>Recommended Power:</u>	See FAQ on web site at http://www.magnepan.com/faq.php#power
<u>Sensitivity:</u>	86dB/500Hz/2.83V
<u>Impedance:</u>	4 Ohms
<u>Crossover Frequency:</u>	900Hz
<u>Dimensions:</u>	36"W X 10-1/2"H X 5-1/2"D
<u>Shipping Weight:</u>	20lbs./pair
<u>Warranty:</u>	Limited 3-Year to Original Owner

11. **CC3 PACKING LIST**

- 1 HEX WRENCH
- 1 - 4 AMP FUSE
- 1 - 1 OHM RESISTOR
- 1 OWNERS MANUAL
- 1 THANK YOU LETTER
- 1 ADJUSTABLE FOOT
- 1 SPEAKER EMBLEM