



# CANDOR II

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## OWNER'S MANUAL

### INTRODUCTION

The Auvia CANDOR II is a high-performance 3-way speaker system, meticulously engineered to offer very low distortion, a neutral tonal balance, superb transients, and broad dispersion – allowing excellent dynamic resolution and transparent imaging. We invite you to experience the CANDOR II's natural and effortless presentation and *enjoy the music!*

In order to fully enjoy all the CANDOR II has to offer, please review the following instructions, and retain this manual for your records. Registered Auvia Loudspeakers are covered by a limited 5-year warranty, so also save bill of sale to protect your purchase and aid in any service-related questions.

### DESCRIPTION

The CANDOR II system is built around a superb 5" main driver loaded into our *Ultra* enclosure, which has been developed to prevent rear-wave energy from reflecting back onto the driver and minimize resonance within the cabinet.

The *Ultra* enclosure eliminates the solid wall behind the driver, replacing it with a matrix of sonically absorbent materials. This frees the midrange response from much of the anomalies that plague the traditional "box speaker".

The CANDOR II's astounding treble response comes from the 1" synthetic dome tweeter—a perfect match to the main driver in its neutral frequency response and outstanding transients. Again the rear-wave energy is carefully controlled and absorbed in the driver's modified rear chamber. Early reflections from the cabinet surface are damped with a felt lining of the tweeter's faceplate. The result is phenomenal ease and resolution.

Twin 6.5" long-throw woofers complete the driver array, combining a superb response time with tremendous extension. Akin to the main driver's enclosure, the bass cabinet is partitioned internally with acoustically absorbent materials, which dramatically improve accuracy by minimizing reflections and resonance within the cabinet. A high-velocity flared vent at the rear of the cabinet provides the low-Q tuning at 27Hz to ensure optimal transient accuracy.

The CANDOR II's slim and elegant cabinets are constructed with proportions and internal bracing carefully selected to inhibit panel resonance and associated coloration. The cabinet is shaped and treated to optimize dispersion and minimize reflections and diffraction.

The potential of the driver/enclosure system is realized via a painstakingly optimized crossover circuit employing the finest electrical components. Air-core foil inductors, film-and-foil capacitors, and non-inductive metal-oxide film resistors are used in the mixed-order filters that seamlessly integrate the drivers' output. The bass, midrange and treble circuits are physically isolated and mechanically damped to prevent mutual inductance and microphonic feedback. Teflon®-insulated, silver-plated high-purity copper internal wiring and silver-plated copper binding posts complete the system.

### SERIAL NUMBER



## UNPACKING

Take great care not to touch any of the drivers, the rear rear grille, or the felt treatment on the face of the cabinet while unpacking and setting up the CANDOR II.

Each CANDOR II is shipped with the following.

- 4 spike feet with lock nuts
- 2 short wire jumpers with spade connectors
- Protective woofer grille

Optional ultra-soft polyurethane *Decoupling Feet* are available for use in lieu of the standard spikes. Please do not install either the spike or decoupling feet until proper placement has been determined. The *Decoupling Feet* are designed to sustain compressive forces but not the shear forces applied in repositioning the cabinets.

See the following section, *Speaker Connections*, regarding use of the wire jumpers.

See *Performance Notes* regarding use of the protective grilles.

We strongly recommend that you save all original packing materials for future shipping. In the unlikely event that a product will need repair, Auvia Loudspeakers will only accept a unit in its original shipping carton. Using any other packing materials may result in damage to the product and is not covered by the warranty.

## SPEAKER CONNECTIONS

The CANDOR II features versatile binding post terminals that will accept ¼" spade connectors, banana plugs, dual banana plugs, pins, or bare wire.

Speaker cables, along with all other audio components and interconnects, will have a significant bearing on the overall performance of your system. If at all possible, experiment with different brands and types in order to tune your system to your liking.

Turn off all system components before making or changing any wire connections! Also, consult the owner's manuals that were included with your audio components to confirm their connection procedures.

For optimum performance, the CANDOR II should be bi-wired to your amplifier(s) with separate runs of cable to the Midrange/Treble (upper) and Bass (lower) input terminals.

If two pair of cables or a bi-wire set of cables is not available, then wire directly to the Midrange/Treble (upper) input terminal pair, and use the supplied jumpers to connect to the Bass input terminals below. Do not use the jumper wires if you are bi-wiring the CANDOR II!

Make certain to observe correct polarity (i.e. + to + and - to -) when making connections. The righthand terminals on the CANDOR II's backplate are the positive (+) terminals; the lefthand terminals are the negative (-) terminals.

## BREAK-IN

To provide excellent out-of-the-box performance, raw CANDOR II drive units are rigorously broken in for a minimum of 24 hours prior to assembly. Nevertheless, the CANDOR II's should be allowed roughly 100 hours of normal use for full break-in. This will be accelerated by playing moderately loud, dynamic music continuously for several days. Make certain your amplifier does not clip from being overdriven, as this may damage the loudspeaker! Please note that damage resulting from overpowering is not covered in the product warranty, and sustained excessive volume levels should be avoided!

## PLACEMENT

Sound quality is heavily dependent on your listening environment and placement of your loudspeakers. Extensive experimentation is recommended to ensure you are enjoying the full benefit of the CANDOR II design. You may start with the following guidelines in determining optimum placement and room treatment.

### *General placement*

The listening position should be an equal distance from each CANDOR II, and the listener/speaker configuration should be in symmetry with the listening room. The distances from the front baffle of each loudspeaker to the two adjacent walls – behind and to the side of the speaker – should *not* be equal.

Start with a listener-to-speaker distance about 25% to 30% *greater* than the speaker-to-listener distance. (Alternately, make the speaker-to-speaker distance 80% to 75% of the

speaker-to-listener distance.) For example, if you sit about 9 feet from the speakers, start with the speakers about 7 feet apart.

Start with the speakers toed-in toward the listener such that the listener is approximately 10 degrees off the speakers' forward axis.

### ***Image focus and breadth***

Using various recordings, experiment with the toe-in angle and the ratio of listen-to-speaker and speaker-to-speaker distances to optimize both the center image focus and perceived breadth of the image.

Reducing the angle of toe-in will tend to increase the breadth of the stereo image.

A mono music or pink noise test recording is helpful to optimize the center-image focus.

### ***Image depth***

Perceived depth of image increases as the speakers are pulled away from the walls and out into the room.

### ***Bass Response***

You can increase the bass reinforcement by moving the speakers and/or listening position closer to the walls of the room. Conversely, if the bass is too prominent, move the speakers and/or listening position away from the walls and out into the room.

### ***Room Treatment***

One general rule for a neutral room is to maintain 50% absorptive and 50% diffusive surfaces in a room. It is nearly always beneficial to address the first reflection points, which are the boundary surfaces halfway between the listener and the speaker cabinets. This includes the ceiling, walls, and floor. Large plants or similarly irregular objects make be used to diffuse the off-axis sound energy if dedicated panels will not fit the decor. If possible, do not place large objects near the loudspeakers, the listening position, or between the two. In example, a coffee table in front of the listener will degrade both perceived timbre and imaging.

## **SPIKE OR DECOUPLING FEET**

On the underside of the CANDOR II are four ¼"-20 threaded inserts that will accept a variety of spike or cone feet. The CANDOR II is supplied with standard spike feet.

Optional self-leveling *Decoupling Feet* are available, built around ultra-soft polyurethane discs, which we've found to be superior in many listening situations. Please contact Auvia Loudspeakers or your Auvia dealer for more information.

After final placement has been determined, you should install the feet at the underside of the cabinet. To access the threaded inserts, tilt the cabinet to one side, fully thread one pair of feet into place, then tilt the cabinet to the other side to access the final pair of inserts. Thread the feet into the inserts such that they are mildly snug. If using the spike feet, tighten the lock nut against the underside of the cabinet to secure the spike in place. One or more of the spikes may be backed out slightly if necessary to level the speaker.

## **PERFORMANCE NOTES**

### ***Power***

To protect the CANDOR II, the rest of your audio system, and your product warranty, avoid volume levels sufficiently high as to diminish clarity in any way. If the sound becomes distorted or strained, reduce the volume level immediately to avoid damages.

### ***Source material***

Before attempting to troubleshoot your system or setup, listen to a variety of recordings to ascertain that any unpleasantness is not due to the source material itself. Some recordings are in fact very harsh, or lean, or muddy!

### ***Grilles***

The CANDOR II's grilles are supplied to protect the woofer drivers from damage. Because they do not obscure the midrange or tweeter drivers, the grilles have minimal effect on system performance. Nevertheless, optimum performance will be heard with the grilles *removed*.

### ***Connections***

Proper maintenance of a system requires regular cleaning and tightening of all connectors. See your local audio retailer or electronics store for available contact cleaning supplies.

### ***Cold Equipment***

The entire system should be left on continuously, or at least allowed time to warm up, for best sound quality.

### **CABINET CARE**

Keep the loudspeakers cabinets dusted with a feather duster or soft cloth. A household furniture polish may be used occasionally to maintain the hardwood finish. Use care not to damage the drivers or mar the felt treatment on the face of the loudspeaker.

### **SERVICE INFORMATION**

In the unlikely event that the CANDOR II requires service, please contact your Auvia Loudspeakers dealer (or Auvia Loudspeakers, if purchased direct) to determine a course of action.

If the unit requires factory service, please obtain a return authorization number before shipping. Call Auvia Loudspeakers at (845) 457-3097 or email us at [info@auvialoudspeakers.com](mailto:info@auvialoudspeakers.com).

If applicable, include a copy of the original bill of sale to verify the unit's warranty coverage.

All products must be shipped in its original packing carton and padding with the return authorization number clearly visible. If the original packing materials are not available, contact Auvia about purchasing a replacement. Note that your product warranty is valid only for items shipped in approved cartons.

**THANK YOU and ENJOY!**

### **CANDOR II SPECIFICATIONS**

#### *Driver Compliment*

- One 1" (25 mm) synthetic dome tweeter
- One 5" (130 mm) mineral-filled polypropylene cone main driver
- Two 6½" (165 mm) treated-paper cone woofers

#### *Frequency Response*

25Hz – 23kHz

#### *Crossover Points, 140Hz & 2.8kHz*

#### *Low Freq. Extension*

19Hz (-6dB, half-space)

#### *SPL (2.83V, 1m)*

87dB

#### *Impedance*

6Ω (3.9Ω minimum)

#### *Recommended Power*

40W – 300W

#### *Size (H x W x D)*

43" x 10¼" x 17" (109 cm x 26 cm x 43 cm)

#### *Weight*

113 lbs./ea.

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