

# INSTRUCTION MANUAL

## SONANCE RK10W ROCK WOOFER



### Introduction

Thank you for purchasing the Sonance RK10W Rock Woofer. When properly installed, this woofer will provide you with years of outdoor entertainment pleasure.

To get the most out of your new woofer, please read this manual thoroughly before you begin the installation.

### Box Contents RK10W

- Each Sonance RK10W Rock Woofer includes the following:
- (1) RK10W Rock Woofer
  - (1) Removable wire termination cover plate; (4) screws

### Installing and Connecting the RK10W

The RK10W has built-in low-pass and high-pass filters that direct the bass frequencies to the RK10W and the rest of the sound to your satellite speakers. This dramatically improves the satellite speakers' power handling.

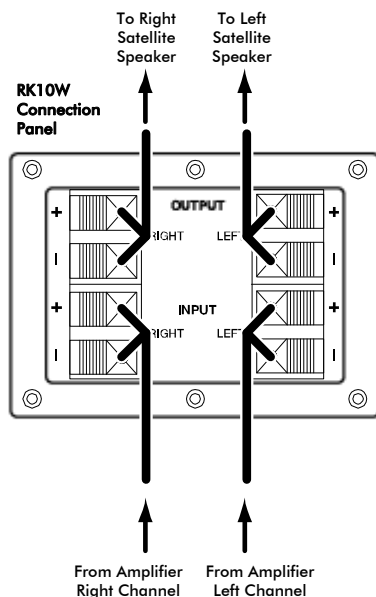
For best sound quality, we recommend that each satellite speaker be placed no more than 8 feet away from the RK10W. If the satellites are placed too far away from the RK10W the woofer's sound will not blend with the sound from the satellites.

1. Dig a 4" – 5" deep trench to run the speaker wires in. You will need a trench from the area near your amplifier to the RK10W, and then from the RK10W to the two satellite speakers.

2. Run 2 lengths of the appropriate gauge wire through the trench from your amplifier to the RK10W. Connect those wires to the RK10W according to the illustration to the right.

3. Connect the wires from your satellite speakers to the RK10W according to the illustration to the right.

**IMPORTANT: Be sure not to let any stray '+' and '-' wires touch each other. Touching wires can cause a short-circuit that could damage your amplifier.**



4. After you have made the previous connections, connect the wires to your amplifier. Double-check that you connected all of the wires properly (amplifier '+' to speaker '+'; amplifier '-' to speaker '-') at all of the connections.

5. After confirming that you've properly made all of the connections, turn your amplifier on and test the system with your favorite music. If the speakers are all operating properly, refill the wire trenches and using the supplied screws, attach the wire termination cover plate to the connector panel on the bottom of the RK10W enclosure. The cover plate will keep moisture from damaging the connections.

### Wire Gauge and Quality

Extra resistance in the speaker wire can make a speaker sound less dynamic and reduce definition of the bass frequencies. In extreme cases, it can even attenuate high frequencies. Also, amplifier power is wasted in wire with extra resistance, reducing your system's maximum output level.

To prevent degrading sound quality, the total wire resistance should be less than 10% of the speaker's impedance. This means that for 8-ohm speakers like the RK10W Rock Woofer, the total resistance of the wire should be less than 0.8 ohms. Refer to the following table when selecting the proper wire gauge for your system.

Wire resistance in Ohms vs. length of cable run						
Distance in Feet	50'	100'	150'	200'	250'	300'
<b>20 gauge</b>	1.04	2.07	3.11	4.14	5.18	6.22
<b>18 gauge</b>	.65	1.30	1.96	2.61	3.26	3.91
<b>16 gauge</b>	.41	.82	1.22	1.63	2.04	2.45
<b>14 gauge</b>	.26	.52	.77	1.03	1.29	1.55
<b>12 gauge</b>	.16	.32	.49	.65	.81	.97
<b>10 gauge</b>	.10	.20	.31	.41	.51	.61

### Specifications

- Design: Weather-resistant rock woofer
- Woofer: 10" (254mm) Black polypropylene cone, dual voice coil, rubber surround
- Frequency Response: 35Hz – 150Hz ±3dB
- Impedance: 8 Ohms nominal
- Power Handling: 5 watts minimum; 150 Watts maximum
- Sensitivity: 90dB SPL (2.83V 1 meter)
- Crossover Frequency: 150Hz (low- pass); 150Hz (high-pass)
- Dimensions (W x H x D): 19<sup>3</sup>/<sub>8</sub>" x 16<sup>7</sup>/<sub>8</sub>" x 14<sup>3</sup>/<sub>8</sub>" (492mm x 429mm x 365mm)

## LIMITED FIVE (5) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated below. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

## EXCLUSIONS

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY SET FORTH ABOVE IS IN LIEU OF, AND EXCLUSIVE OF, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY SONANCE. ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR USE, AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. No one is authorized to make or modify any warranties on behalf of Sonance.

The warranty stated above is the sole and exclusive remedy and Sonance's performance shall constitute full and final satisfaction of all obligations, liabilities and claims with respect to the Product. IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY OR OTHERWISE.

This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow disclaimer of implied warranties, the duration of such implied warranties is limited to period of Sonance's express warranty.

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## Your Product Model and Description: Sonance RK10W

Warranty Period for this Product: Five (5) years from the date on the original sales receipt or invoice or other satisfactory proof of purchase.

Additional Limitations and Exclusions from Warranty Coverage: The warranty described above is non-transferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. overdriving the amplifier or speaker, excessive heat or cold or humidity), or from service or repair which has not been authorized by Sonance.

Obtaining Authorized Service: To qualify for the warranty, you must contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (800) 582-0772 within the warranty period, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.



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