

**LIMITED WARRANTY**  
**DCM KX-SUB 1 Powered Subwoofer System**

This DCM powered subwoofer is intended for the reproduction of music in residential premises only and is warranted against defective materials or workmanship for a period of one year on the amplifier and five years on the speaker from the original date of purchase. This warranty extends to the original purchaser from an authorized DCM retailer only.

Defective parts will be repaired, adjusted or replaced with no charge for materials or labor if the purchaser returns the subwoofer together with the original sales receipt or other proof of purchase at the purchaser's expense to DCM Corporation at the address below. Warranty work will be performed within a reasonable time and the subwoofer returned to the purchaser at DCM's expense within the United States of America.

This warranty does not extend to equipment damage due to negligence, misuse, improper installation, shipping damage, abuse or accident.

No implied warranties shall extend beyond five years from the original date of purchase. Incidental and consequential damages are expressly excluded from this warranty and may not be recovered by a purchaser as the result of breach of any warranty. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

Please save the original carton and packing material. If you move or the subwoofer requires service, pack the unit in this carton. Any damage in transit due to improper packing is not covered by the warranty and will not be recognized as an insurance claim by transportation companies.

**DCM**  
LOUDSPEAKERS

670 Airport Blvd • Ann Arbor, Michigan 48108

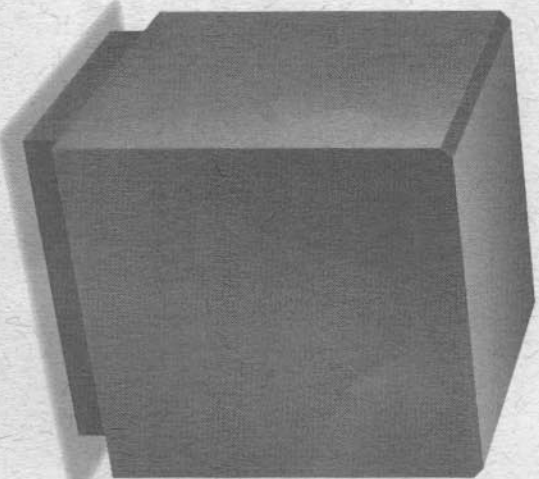
Phone 800 878-TIME • Fax 313 994-0190

Visit our Internet website at [www.dcmspeakers.com](http://www.dcmspeakers.com)

Due to our policy of continuous improvement, specifications are subject to change without notice. DCM is a registered trademark of DCM Corporation.

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LOUDSPEAKERS

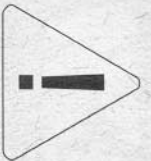
*Before you plug in...*



**DCM KX-SUB 1 POWERED SUBWOOFER**  
**FOR AUDIO & HOME THEATER SYSTEMS**  
**SETUP & OPERATING INSTRUCTIONS**



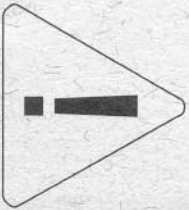
**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE AMPLIFIER BACK  
NO USER SERVICEABLE PARTS INSIDE  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL**



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

**CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**

## INTRODUCTION

Thank you for purchasing the DCM Model KX-SUB 1 powered subwoofer. This self-contained system uses advanced electronic and psychoacoustic technologies to substantially enhance the deep bass output of your audio or home theater system.

- On audio programs, the KX-SUB 1 adds extra depth, feeling and richness. Your other speakers no longer need to reproduce demanding fundamental music tones, which will help improve their transient response and overall performance.
- On video programs processed by a Dolby Pro Logic™ or other Surround Sound formats, the KX-SUB 1 will play back the low frequencies encoded in the broadcast, videotape or laserdisc soundtrack. You'll hear and feel the full cinematic effect of storms, explosions, car chases, space ships, zooming airplanes and other exciting action, just as you would at the movies.
- Sonically, the KX-SUB 1 is designed to blend smoothly with your electronics and main speakers. The variable crossover allows you to select the optimum crossover frequency to compensate for room conditions and the best blend with your main speakers.
- The KX-SUB 1 includes an electricity-saving “smart power” function. It turns on instantly when it receives an input audio signal. And it turns itself off when it receives no input signal.
- Aesthetically, the KX-SUB 1's clean design makes it easy to coordinate with most home-decorating styles. Because of the non-directional nature of low-frequency sound waves, you may position your subwoofer wherever it is most convenient for you. However, it is generally recommended that the subwoofer be positioned near — and preferably in-between — your main loudspeakers.

By following the instructions in this booklet, you'll find the KX-SUB 1 easy to set up, operate, maintain and enjoy for years to come. If you have any questions or need more information, please contact your DCM retailer. Or you may call DCM direct at 1-800-878-TIME between the hours of 9:00 a.m. and 5:00 p.m. Eastern Time, Monday through Friday.

## CONNECTING YOUR SUBWOOFER

Before you connect the KX-SUB 1 powered subwoofer to your system:

1. **Turn off power to your entire system.** This will prevent accidents such as short circuits from damaging your equipment.
2. **Plug in the KX-SUB 1 power cord.** Plug in the supplied power cord to the back panel of the KX-SUB 1 and then into the accessory outlet on the back of your receiver or amplifier, into the same power strip where your other system electronics are plugged in, or into a grounded wall outlet. Make sure you plug both ends of the power cable firmly into their sockets.

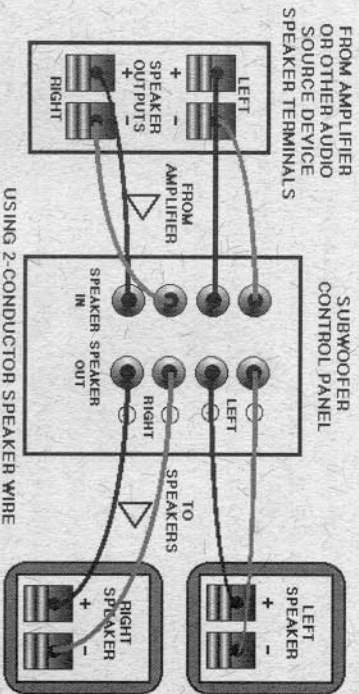
3. **Set the Output Level control to ZERO.** Later in the set up process, you will experiment with output level settings to blend the subwoofer's output with your main speakers' output. With its "Smart Power" function, the KX-SUB 1 will turn off instantly when it receives input signals from your amplifier and turn itself off if it receives no signal after a period of time.

4. **Decide whether you want to connect the KX-SUB 1 to the amplifier's speaker terminals OR to line level jacks.** The KX-SUB 1 has the built-in flexibility to be connected to either your amplifier's speaker terminals or line level output jacks. Review your receiver, amplifier or TV instruction manual to see which type of outputs are available on your equipment. Choose the method that works best.

### ⚠ CAUTION!

MAKE SURE THE POSITIVE (+) "RED" SPEAKER TERMINAL OF THE KX-SUB 1 IS CONNECTED TO THE POSITIVE "RED" SPEAKER TERMINAL ON YOUR AMPLIFIER, AND THE NEGATIVE (-) "BLACK" TERMINALS ARE CONNECTED FOR BOTH LEFT AND RIGHT CHANNELS. INCORRECT CONNECTIONS COULD DAMAGE YOUR KX-SUB 1, YOUR AMPLIFIER, OR BOTH UNITS.

### SPEAKER WIRE CONNECTION METHOD (A)



- (A) **Connecting your KX-SUB 1 using speaker wires:** Connect the speaker wires from the amplifier or receiver speaker terminals to the FROM AMPLIFIER wire inputs on the KX-SUB 1. Then connect your main speakers to the TO SPEAKERS speaker wire terminals on the KX-SUB 1. (Use at least a #16 gauge AWG two-conductor insulated wire.) The KX-SUB 1 amplifies the low frequency audio signals while passing through unfiltered audio signals. Your main speakers will still reproduce their full range of sound.

### ⚠ WARNING!

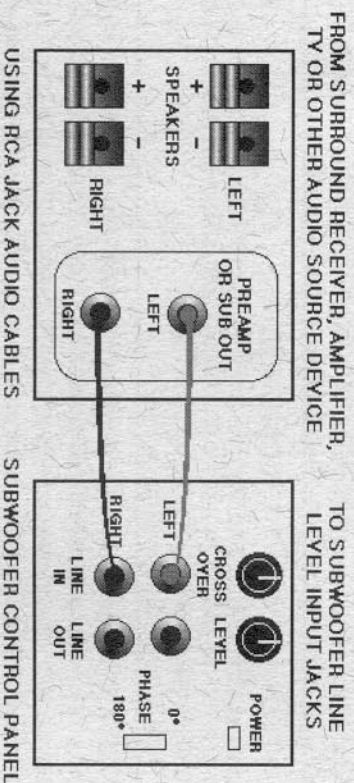
NEVER USE AUDIO CABLES AND SPEAKER WIRES CONNECTED TO THE KX-SUB 1 AT THE SAME TIME. THIS COULD CAUSE A GROUNDING PROBLEM AND SEVERELY DAMAGE YOUR SUBWOOFER AND AMPLIFIER.

- (B) **Connecting the KX-SUB 1 using RCA audio cables:** Run an RCA-style audio cable from any line or variable level output jack from your amplifier, receiver, stereo TV, VCR or other audio source device to the LINE IN input jacks of the KX-SUB 1. Getting an input signal direct from your amplifier provides the best signal and is recommended if you are able to place the KX-SUB 1 close enough to your amplifier to run audio cables.

If your amplifier has Left and Right LINE OUT jacks, connect both cables to the Left and Right LINE IN jacks of the KX-SUB 1. The KX-SUB 1 internally "sums" these audio signals into a single, monaural bass input.

If your audio source device has a MONO OUTPUT, A SUBWOOFER OUT, PRE-MONO, OR PRE-OUT jack, the signal has already been "summed" by your amplifier and only one audio cable is needed. Plug it into the Left or Right LINE IN jack on the KX-SUB 1 input panel.

### AUDIO CABLE CONNECTION METHOD (B)



## ADJUSTING OUTPUT LEVELS

After you have connected your KX-SUB 1 according to our instructions, you are ready to turn on your system. When the KX-SUB 1 receives a signal from your amplifier, it will turn on automatically and the POWER light will go on. Now you can adjust the subwoofer's output levels to your preferences.

The OUTPUT LEVEL control on the back panel of the KX-SUB 1 allows you to mix the appropriate amount of bass output with your main speakers' output. Experiment with the KX-SUB 1 output level control while listening to "full bodied" material to produce the best balance at different main amplifier volume settings. Bear in mind that the KX-SUB 1 is designed to add excitement and dimension to the audio or video program, not to overpower it.

## ADJUSTING THE VARIABLE CROSSOVER

After you have adjusted the volume to an appropriate level, you may want to experiment with the variable crossover control. This control adjusts the amount of mid-bass relative to the main speakers. DCM recommends a higher crossover setting (above 80 Hz) for bookshelf speakers and a lower setting (below 80 Hz) for floor-standing main speakers.

## SUBWOOFER PLACEMENT AND PHASE SWITCH SETTINGS

Since the low frequencies reproduced by the KX-SUB 1 are relatively non-directional, the placement of the subwoofer cabinet is not critical. Bass output may increase when the KX-SUB 1 is placed nearer to a wall or corner. Room acoustics vary, so experiment with different KX-SUB 1 locations to achieve the results you want. Regardless of where you place the KX SUB 1, it should remain in an upright position so that the base of the cabinet is on the floor.

The KX-SUB 1 is equipped with a phase switch to ensure that the woofers move in the same direction as your other speakers. As you experiment with different subwoofer locations you should also try different phase switch settings to determine which location and phase setting provides the best bass response in your room.

### ⚠ CAUTION!

THE KX-SUB 1 AMPLIFIER IS BUILT INTO THE CABINET. DO NOT PLACE CABINET NEAR HEAT SOURCES, SUCH AS FURNACE REGISTERS. ROUTE POWER CORD SO IT IS NOT WALKED OVER, PINCHED OR COMPRESSED.

The KX-SUB 1's driver is shielded to reduce magnetic emissions. However, the shielding may not be adequate for all installations. Large screen TVs are particularly sensitive to stray magnetic fields. If your TV produces distorted colors after KX-SUB 1 installation, increase the distance between the subwoofer cabinet and the TV set until your picture resumes normal color.

## MAINTENANCE

Clean the KX-SUB 1 cabinet with a soft, damp cloth and a mild, non-abrasive detergent. Do not use ammonia, alcohol or solvent-based cleaners because these could damage the vinyl cabinet finish. Do not place the cabinet in direct sunlight because this will cause the finish to fade over time.

## SERVICE & TROUBLESHOOTING

If your KX-SUB 1 is not working properly, please inspect all your connections and review the instructions in this booklet. Check to make sure your AC wall power source is working by plugging in another appliance that you know works. If you still have problems, contact your DCM retailer. Your KX-SUB 1 has no user-serviceable parts and should be serviced only by an authorized DCM repair facility. Woofers are replaceable by authorized DCM technicians only. Please keep your KX-SUB 1 carton and packing materials. In the event you need to transport or ship the unit for service, it will help prevent damage to the unit in transit.

## TECHNICAL SPECIFICATIONS

### DCM Model KX-SUB 1 Powered Subwoofer

|                             |   |
|-----------------------------|---|
| <i>Frequency Range</i>      | 30 Hz to 120 Hz   |
| <i>Output</i>               | 120 db maximum sound pressure level   |
| <i>Usable Power Range</i>   | 195 watts maximum output  |
| <i>Nominal Impedance</i>    | 1K ohms, using speaker level inputs   |
| <i>Low Frequency Driver</i> | (1) 10-inch DCM woofer  |
| <i>Crossover</i>            | User-controlled variable crossover  |
| <i>Phase Switch</i>         | Yes   |
| <i>Enclosure Type</i>       | Ported bandpass   |
| <i>Cabinet Finish</i>       | Textured black finish   |
| <i>Connection Options</i>   | (A) Hook up via speaker level inputs from audio source device's R and L FRONT SPEAKER terminals via speaker wire pass through<br>(B) Hook up via RCA line inputs from audio source device's PREAMP OUT OR SUB OUT |
| <i>Video Shielding</i>      | Drivers are magnetically shielded to minimize video interference  |
| <i>Cabinet Dimensions</i>   | 17"H x 14-1/2"W x 14-5/8"D  |