

OWNER'S MANUAL



***PowerClass***<sup>®</sup> coaxial speakers



## **INTRODUCTION**

---

Thank you for your purchase of this *PowerClass*<sup>®</sup> Coaxial Loudspeaker system from *PrecisionPower*<sup>™</sup>. Our engineers have combined state of the art materials such as foamed polypropylene cones and vapor-deposit titanium dome tweeters with cutting-edge industrial design to achieve competition-ready performance levels.

## **PRACTICE SAFE SOUND<sup>™</sup>**

---

Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered automotive sound systems can generate sound pressure levels in excess of 130dB. When playing your system at high levels, please use hearing protection and prevent long term exposure.

Model Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

## **WHAT'S IN THE BOX**

---

Your new *PrecisionPower*<sup>™</sup> PC coaxial speaker kit includes all the necessary mounting hardware and cables for a basic installation:

<b>Quantity</b>	<b>Description</b>
1	Installation and Operation Manual
2	PC coaxial speakers
1	Mounting template
2	Grills

## **INSTALLATION**

---

The performance of your new *PrecisionPower*<sup>™</sup> Coaxial Loudspeaker system is directly proportional to the quality of installation. Care taken during the installation process will be rewarded with years of satisfying performance. If you are unsure about your installation capabilities, please refer to your local Authorized *PrecisionPower*<sup>™</sup> Dealer for technical assistance. If you decide to install the speaker system yourself, please read the entire owner's guide before beginning your installation.

## **TOOLS OF THE TRADE**

Listed below are tools you may wish to have on hand before starting your installation. Having the proper tools will make the installation much easier. Some of these tools are necessities, some will just make the job easier.

- Marking Pen
- 1/4" Drill Bit
- 1/8" Drill Bit
- 3/8" Drill Bit
- Hole Saw Arbor
- 4-3/4" Hole Saw (5-1/4" woofer install)
- 5-3/4" Hole Saw (6-1/2" woofer install)
- Electric Drill
- Phillips Screwdriver
- Volt/Ohm Meter (optional)
- Assorted Tin Snips
- Wire Cutters
- Wire Crimpers
- Wire Strippers
- Razor Knife (optional)

## **FINDING SPEAKER MOUNTING LOCATIONS**

Choosing the correct speaker locations can have a significant effect on the sound quality of the system. Care is needed to ensure that the location you have chosen will not affect any of the mechanical or electrical operations of the vehicle. There are many different considerations for choosing the locations that best suit your needs. The locations must be large enough for the speakers to fit without interfering with other vehicle parts such as window mechanisms, etc. If minimal intrusion in your vehicle is desired, factory speaker locations may be the ticket for you. Placing the speaker in the factory location can often give you very desirable results. Alternative locations to consider include mounting in customized kick panels, rear decks, or side panels.

## **DOOR MOUNTING**

When considering possible speaker locations in the doors, be sure to check the operation of the window mechanism and all other moving parts inside the door. Most vehicles use a stabilizer stop bar in between the door and the door jamb. This bar prevents the door from opening too far, but may intrude into the speaker mounting area when the door is closed. Many do-it-yourself installers overlook this and check for speaker clearance only when the door is fully open.

## **REAR DECK MOUNTING**

In rear deck installations, check the operation of the trunk suspension springs or tension bars. These tension bars can move when opening and closing the trunk and can exert a great deal of force against anything that obstructs their movement, such as a speaker basket or motor assembly. In addition, try to avoid locating the speakers too close to the back edge of the rear deck. Installing the rearmost screws may not be possible without the removal of the rear window.

## **INSTALLING THE SPEAKER**

---

**Step 1:** Determine where the speaker will be mounted. Make sure there is a flat area large enough for the speaker to fit properly. An uneven mounting surface can damage the driver and limit the bass performance of your PC component system.

**Step 2:** Check to make sure the mounting location you have chosen for the speaker will not interfere with the operation of the vehicle.

**Step 3:** Using the supplied template guide, mark the hole with a pen.

**Step 4:** [Skip this step if using correctly sized factory locations] Cut the hole for the speaker. A hole can be cut either with a pair of metal tin snips, razor knife, air saw, or with a hole saw corresponding to the size of the woofer listed below.

- 4-3/4" Hole Saw (5-1/4" woofer installation)
- 5-3/4" Hole Saw (6-1/2" woofer installation)

**WARNING: Window mechanisms and electrical wires and other expensive car parts have a nasty habit of hiding where you least expect. CHECK BEFORE YOU DRILL!**

**Step 5:** Run the speaker wire to the speakers. Make sure to keep wires away from sharp metal or other edges. When passing through metal, use a protective grommet.

**Step 6:** Using the plastic grille ring as a template, mark the mounting holes with a pen.

**Step 7:** Pre-drill mounting holes using a 1/8" drill bit.

**WARNING: Window mechanisms and electrical wires and other expensive car parts have a nasty habit of hiding where you least expect. CHECK BEFORE YOU DRILL!**

## **SPECIFICATIONS**

---

<b>Model</b>	<b>PC 525C</b>	<b>PC 570C</b>
Nominal Impedance	4 ohms	4 ohms
Power Continuous/Peak	50/100 watts	50/100 watts
Frequency Response	100Hz - 30kHz	80Hz - 20kHz
Sensitivity (2.83V @ 1w/1m)	90 dB	91 dB
Mounting Depth	2-7/8"	2-7/8"

<b>Model</b>	<b>PC 650C</b>	<b>PC 690C</b>
Nominal Impedance	4 ohms	4 ohms
Power Continuous/Peak	60/120 watts	75/150 watts
Frequency Response	90Hz - 20kHz	70Hz - 20kHz
Sensitivity (2.83V @ 1w/1m)	90 dB	91 dB
Mounting Depth	2-15/16"	3-7/16"

## Warranty

### LIMITED TWO YEAR CONSUMER WARRANTY:

Directed Electronics, Inc. promises to the original purchaser, to replace this product should it prove to be defective in workmanship or material under normal use, for a period of two years from the date of purchase from the dealer as indicated by the date code marking of the product PROVIDED the product was installed by an authorized Directed dealer. During this two-year period, there will be no charge for this replacement PROVIDED the unit is returned to Directed, shipping pre-paid. If the unit is installed by anyone other than an authorized Directed dealer, the warranty period will be one year from the date of purchase by the dealer as indicated by the date code marking of the product. This warranty is non-transferable and does not apply to any unit that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the unit caused by installation or removal of the unit. During this one-year period, there will be no charge for this replacement PROVIDED the unit is returned to Directed, shipping pre-paid. This warranty is void if the product has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. Units which are found to be damaged by abuse resulting in thermally damaged voice coils are not covered by this warranty but may be replaced at the absolute/sole discretion of Directed. **ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. DIRECTED HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS.** Unit must be returned to Directed, postage pre-paid, with bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number, and address, authorized dealer's name and address, and product description. Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. **IN ORDER FOR THIS WARRANTY TO BE VALID, YOUR UNIT MUST BE SHIPPED WITH PROOF OF INSTALLATION BY AN AUTHORIZED DIRECTED DEALER. ALL UNITS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF DIRECTED DEALER INSTALLATION WILL BE COVERED BY THE LIMITED 1 YEAR PARTS AND LABOR WARRANTY.** Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. **BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DIRECTED SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA.**

