



Thank you for choosing *PPI* audio equipment. Now, HANG ON! *PPI* products are engineered and manufactured to deliver a wild ride of performance, sound quality, and reliability. This *PPI* product reflects our commitment to offer you versatility and quality for years of incredible power and listening enjoyment!

#### *SERVICE*

Do not attempt to service *PPI* products yourself. Performing exploratory surgery on your audio equipment yourself will void the warranty. All parts of your *PPI* gear have been built to our specifications. These parts are not made available to any unauthorized *PPI* dealer nor are they for sale. Our goal is to make sure that your *PPI* product will always perform as good as the day it was purchased. Contact your authorized *PPI* dealer about obtaining any warranty service through *PPI*. (See Warranty inside back cover.)

#### *CAUTION!*

The extended use of a high powered audio system may result in hearing loss or damage. While *PPI* systems are capable of "Concert Level" volumes, they are also designed for you to enjoy at more reasonable levels all of the creative expressions made by musicians. Please stay seated while driving and observe all local sound ordinances.

A rectangular metal plate with four screws at the corners. The text "For your records..." is embossed in a serif font. Below this, there are three lines of text: "model number", "serial number", and "purchase date", each followed by a horizontal line for writing.

# Features

Your new speakers incorporate some or all of the following features:

- **Woven Carbon Fiber Woofer Cones** - *This rigid and light material provides powerful bass and rich midrange without distortion and cone breakup*
- **Butyl Rubber Woofer Surrounds & Flat Spiders** - *Provide low distortion through the full range of speaker cone motion*
- **Titanium Tweeter Domes** - *Will not distort even when driven with large amounts of power*
- **Composite Tweeter Surrounds** - *Eliminates ringing that can occur with metal dome tweeters while controlling dome motion*
- **Neodymium Tweeter Magnets** - *Greater magnetic strength in a smaller package with higher efficiency*
- **Swivel Tweeter Mounts (not on PPI35.1&40.1)** - *Allows you to focus the accoustical energy for better imaging*
- **Built-in Tweeter Crossover** - *Protects and provides a simple hookup to the tweeter*
- **Acoustically Transparent Speaker Grills** - *Protects the speakers without degrading the sound*
- **Gold Plated Speaker Terminals** - *Provides a corrosion free high integrity connention*
- **Professional Mounting Hardware, including Speaker Cable**

Your coaxial system includes the following:

- 1 - pair of coaxial speakers
- 1 - pair of 2-piece speaker grilles with adhesive (not with PPI35.1)
- 1 - pair of stick-on logos for the grilles
- 1 - pair of 2-conductor speaker cable (20 feet each) with push-on speaker terminals
- 8 mounting screws ( 4 mounting screws for the PPI35.1)
- 8 speed clips (4 speed clips for the PPI35.1)

# Specifications

## ● PPI35.1

● Woofer Size	3.5 in
● Tweeter Size	.75 in
● Swivel Tweeter	No
● Maximum power handling	50 Watts
● Nominal power handling	20 Watts
● Frequency Response	150 - 20 kHz
● Efficiency @ 1W/1M	86.75 dB
● Xmax	.18 mm
● Woofer Voice Coil Diameter	.75 in
● Woofer Magnet Weight	5.35 oz
● Impedance	4 ohms
● Resonant Frequency	171.5 Hz
● Voice Coil Resistance	3.32 ohms
● Mounting Depth	1.69 in
● Mounting Diameter	3.13 in



# Specifications

## ● PPI40.1

● Woofer Size	4 in
● Tweeter Size	.75 in
● Swivel Tweeter	Yes
● Maximum power handling	80 Watts
● Nominal power handling	40 Watts
● Frequency Response	70 Hz - 22 kHz
● Efficiency @ 1W/1M	90 dB
● Xmax	1.5 mm
● Woofer Voice Coil Diameter	1 in
● Woofer Magnet Weight	8 oz
● Impedance	4 ohms
● Resonant Frequency	134 Hz
● Voice Coil Resistance	3.8 ohms
● Mounting Depth	1.87 in
● Mounting Diameter	3.68 in



# Specifications

## ● PPI46.1

● Woofer Size	4 x 6 in
● Tweeter Size	.75 in
● Swivel Tweeter	Yes
● Maximum power handling	80 Watts
● Nominal power handling	40 Watts
● Frequency Response	70 Hz - 22 kHz
● Efficiency @ 1W/1M	89 dB
● Xmax	2 mm
● Woofer Voice Coil Diameter	1 in
● Woofer Magnet Weight	8 oz
● Impedance	4 ohms
● Resonant Frequency	100 Hz
● Voice Coil Resistance	3.9 ohms
● Mounting Depth	2.06 in
● Mounting Diameter	N/A



# Specifications

## ● PPI52.1

● Woofer Size	5.25 in
● Tweeter Size	.75 in
● Swivel Tweeter	Yes
● Maximum power handling	90 Watts
● Nominal power handling	45 Watts
● Frequency Response	60 Hz - 22 kHz
● Efficiency @ 1W/1M	88 dB
● Xmax	2.5 mm
● Woofer Voice Coil Diameter	1 in
● Woofer Magnet Weight	10 oz
● Impedance	4 ohms
● Resonant Frequency	105 Hz
● Voice Coil Resistance	3.9 ohms
● Mounting Depth	2.37 in
● Mounting Diameter	4.65 in



# Specifications

## ● PPI57.1

● Woofer Size	5 x 7 in
● Tweeter Size	.75 in
● Swivel Tweeter	Yes
● Maximum power handling	90 Watts
● Nominal power handling	45 Watts
● Frequency Response	50 Hz - 22 kHz
● Efficiency @ 1W/1M	91 dB
● Xmax	2.5 mm
● Woofer Voice Coil Diameter	1 in
● Woofer Magnet Weight	10 oz
● Impedance	4 ohms
● Resonant Frequency	70 Hz
● Voice Coil Resistance	3.8 ohms
● Mounting Depth	2.37 in
● Mounting Diameter	N/A



# Specifications

## ● PPI65.1

● Woofer Size	6.5 in
● Tweeter Size	.75 in
● Swivel Tweeter	Yes
● Maximum power handling	100 Watts
● Nominal power handling	50 Watts
● Frequency Response	40 Hz - 21 kHz
● Efficiency @ 1W/1M	91 dB
● Xmax	3 mm
● Woofer Voice Coil Diameter	1 in
● Woofer Magnet Weight	13 oz
● Impedance	4 ohms
● Resonant Frequency	65 Hz
● Voice Coil Resistance	3.8 ohms
● Mounting Depth	2.81 in
● Mounting Diameter	5.62 in





# Specifications

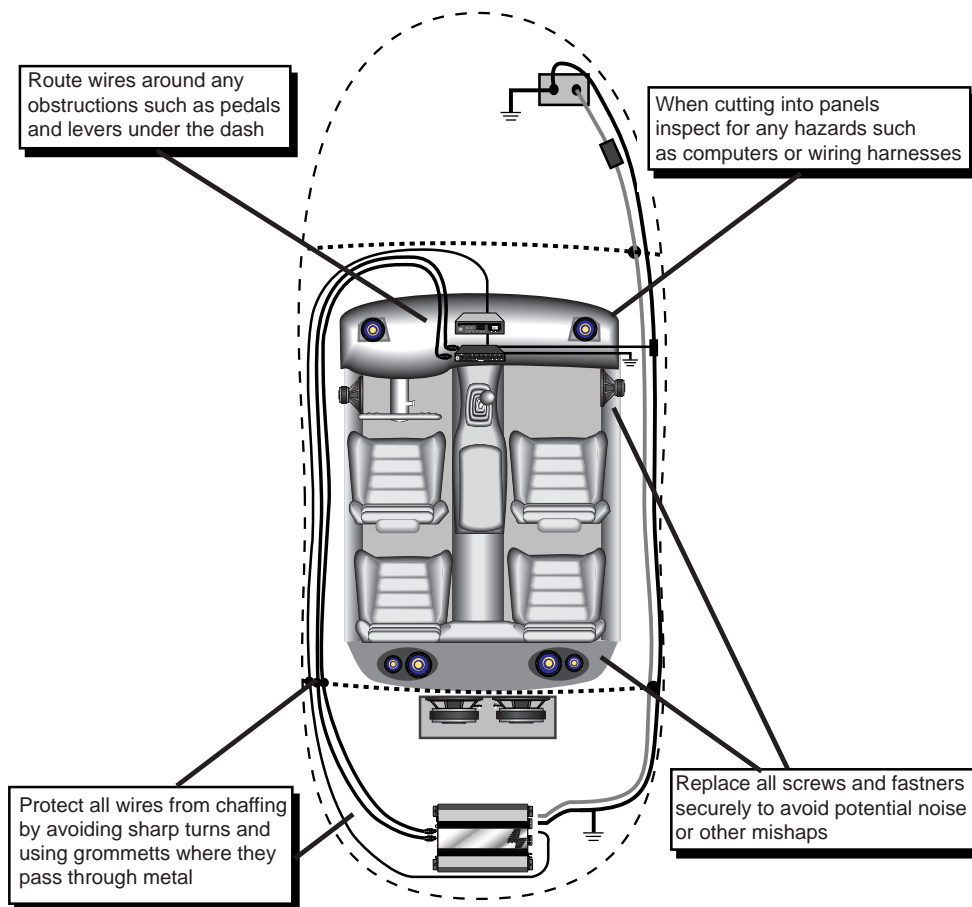
## ● PPI69.1

● Woofer Size	6 x 9 in
● Tweeter Size	1 in
● Swivel Tweeter	Yes
● Maximum power handling	150 Watts
● Nominal power handling	75 Watts
● Frequency Response	50 Hz - 21 kHz
● Efficiency @ 1W/1M	92 dB
● Xmax	2 mm
● Woofer Voice Coil Diameter	1.5 in
● Woofer Magnet Weight	20 oz
● Impedance	4 ohms
● Resonant Frequency	50 Hz
● Voice Coil Resistance	3.9 ohms
● Mounting Depth	3.25 in
● Mounting Diameter	N/A



# Installation

The installation of your new **PPI** coaxial speakers should be relatively simple; especially if you are replacing factory speakers of the same size. However, if you are installing your speakers where there are not any currently installed or if you are planning to install speakers larger than the factory speakers, the process will be more difficult. If this is the case, we strongly recommend a professional installation by your authorized **PPI** retailer.



Your **PPI** coaxials are shipped with all the hardware you should need for proper installation. Although, as with most installations, you may not use all of the pieces. We recommend that you keep everything including this owners manual and the original packing in case you decide to move the speakers into another vehicle that may require a different type of installation.

Before starting the installation make sure the system is operating properly. Test the balance, fader and volume controls to ensure your system is functioning properly. If everything is fine, proceed with the installation; otherwise, locate the problems and have them repaired.

## Installation

The first step is to gain access to the existing speaker. This will involve removing a grille or a panel. Use extreme caution when removing anything from your vehicle since hidden screws or mounts may have been used by the factory.

When prying loose any panels be careful not to cause any breaks or cracks. Once the grille or panel has been removed place it in a safe area until the installation is finished. Next, remove the hardware securing the factory speaker and set it aside. Gently remove the speaker from its mounting baffle far enough to unplug the factory wires from the back. The speaker can now be completely removed.

If you are not running new speaker cable, the factory wires can be connected to your new **PPI** coaxial by installing new crimp-on terminals (not included) on the existing wire or by splicing a short length of the provided cable (the end with the terminals) to the factory wires.

If possible match the polarity of the factory cables to the new cables, otherwise, make sure to connect the new wires the same way on each side. Your **PPI** coaxial speakers can now be connected to the wires, by gently pushing the wire terminals onto the speaker terminals. Note that the smaller terminal is the negative lead and the larger is the positive lead.

**Do not connect either speaker lead to ground or to a 12 volt power source. Your speakers, amplifier, or head unit can be damaged!**

Once the speakers have been wired they can be mounted to the speaker baffle using the factory hardware or the **PPI** supplied mounting equipment. Use whichever will work best for your needs.

Now that the speaker is wired and mounted the system should be tested for proper operation. If it is operating properly the grille or panel can be reinstalled and the next speaker can be installed. If the system is not working as it should refer to the troubleshooting chart on page 12.

Reinstall the grille or panel by reversing the steps followed in the removal of the component. Install all screws and fasteners securely to avoid potential rattles and other problems. The remaining speakers can be replaced by following the same steps.

If a non-factory installation is your choice, be careful when cutting into your vehicle. Make sure any panels that are to be cut are free of any obstructions on both sides. Look for anything that could be damaged such as wiring harnesses, computers, or brake and fuel lines. Speaker cables will need to be run all the way to the amplifier or head unit when performing a non-factory install. Route the cables safely out of the way of any hazards such as the pedals and levers under the dash. Use a grommet whenever the cables pass through metal.

# Troubleshooting

**NO SOUND** Is the head unit and / or amplifier on?

**YES**

Check that speaker leads are connected to the speaker and head unit or amplifier.

**NO**

Check power and remote turn-on wire for voltage. Make sure ground wire is secure.

**ANY SOUND NOW?**

**YES**

You are done

**NO**

Check that the speaker leads are not shorted or contacting ground.

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**VERY LITTLE BASS WHEN BALANCE IS CENTERED.  
MORE WHEN BALANCE IS MOVED FROM ONE SIDE TO THE OTHER**

Speakers are wired out of phase.  
Check them and reverse the polarity on the improperly wired speaker

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**SPEAKERS SOUND DISTORTED OR SCRATCHY**

Is the battery voltage low?

**YES**

Make sure charging system is properly charging battery

**NO**

Check speakers for physical damage



**YES**

Consult your authorized PPI dealer or call 1-800-62POWER

## 3-Year Limited U.S.A. Warranty

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. PrecisionPower, Inc. (PPI) warrants its products to be free from defects in materials and workmanship under normal use and service for a period of three (3) years from the date of original purchase when the unit is installed by an Authorized Dealer. Non-Authorized Dealer installed products carry a one (1) year parts and ninety (90) days labor limited warranty. The extent and conditions of Limited Warranty are as follows:

1. Authorized Dealer Installed Products: PPI will either repair or replace at no charge, to the original purchaser, any unit which PPI's examination discloses to be defective and under warranty, provided the defect occurs within three (3) years from the date of original purchase when the unit is installed by an Authorized Dealer and the product is returned immediately to PPI. This warranty is not transferable.

2. Non-Authorized Dealer Installed Products: PPI will either repair or replace at no charge, to the original purchaser, any unit which PPI's examination discloses to be defective and under warranty, provided the defect occurs within ninety (90) days from the date of purchase and the product is returned immediately to PPI. Warranty claims beyond ninety (90) days for Non-Authorized Dealer Installed Products will be for parts only and will extend for one (1) year from the date of purchase. This warranty is not transferable.

3. The date of purchase and proof of Authorized Dealer Installation of a PPI product must be established by an original sales receipt which must accompany the article being returned for warranty work.

4. This warranty shall NOT apply to any PPI product found to have the original factory serial number removed or defaced. All products received (by PPI) for in warranty or out of warranty repair, with their original serial numbers removed or defaced, will NOT be repaired and will be returned to sender, freight collect. Refer to original packaging for the serial number of your component speakers.

5. The provisions of this warranty shall not apply to any PPI product used for a purpose for which it is not designed, which has been repaired or altered in any way, or which has been connected, installed, or adjusted other than in accordance with the instructions furnished in PPI's owner's manual. Nor shall this warranty apply to any part which has been subject to misuse, neglect, or accident.

6. PPI does not authorize any other persons to assume any other liability in connection with its products. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY MADE BY PRECISIONPOWER APPLICABLE TO ITS PRODUCTS. ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO PRECISIONPOWER PRODUCTS IS LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. PRECISIONPOWER SHALL NOT BE LIABLE FOR THE INCIDENTAL, CONSEQUENTIAL, OR COMMERCIAL DAMAGES RESULTING FROM THE BREACH OF THIS WRITTEN WARRANTY. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so the above limitations or exclusions may not apply to you.

7. Your product will be serviced on an in-warranty basis within the warranty period for the correction of warranted defects. If improper operation of your PPI product should occur, contact your Authorized Dealer for assistance with the return and factory repair of your PPI product. If an Authorized Dealer is not available, return the unit including your name, telephone number, return address, a copy of your sales receipt, and a description of the problem to:

*PrecisionPower, Inc.*  
Service Department  
4829 S. 38th Street  
Phoenix, AZ 85040-2964

TO RETURN PPI PRODUCTS OUT OF WARRANTY: Return the unit, postage prepaid, in the original protective carton. Please include a description of the problem and, if desired, a request for an estimate of repair costs. Unless a request for an estimate is included, the unit will be repaired as necessary. Please contact PPI Customer Service at 1-800-62-POWER for questions concerning out of warranty repair charges. Repaired unit will be returned with an itemized statement, C.O.D.