

ZR  
series



**10" POWERFUL COMPACT ACTIVE SUBWOOFER**  
400W MAX POWER

Model: ZR10P

**SPECIFICATIONS**

<b>POWER RMS</b>	200W (400W Max)
<b>THD</b>	<0.5%
<b>SIGNAL-TO-NOISE RATIO</b>	>90dB
<b>FREQUENCY RESPONSE</b>	20Hz - 150Hz
<b>INPUT SENSITIVITY (HIGH LEVEL)</b>	1.0V
<b>INPUT SENSITIVITY (LOW LEVEL)</b>	300mV
<b>LOW PASS FILTER</b>	50Hz - 150Hz
<b>BASS BOOST</b>	0 to 12dB
<b>SUBSONIC FILTER</b>	20Hz
<b>FUSE RATING</b>	25A
<b>DIMENSIONS - MM (L x W x H)</b>	340 x 245 x 78

*All specifications subject to change without notice.*

 **PHOENIX GOLD**

**ZR10P - ACTIVE SUBWOOFER** **Features**

- 10" Active powerful compact subwoofer
- 200W RMS 400W Max
- Autostart on high-level input
- Remote gain control
- High and low level input
- Power & high-level cable quick connector
- Aluminium casing
- Subsonic filter at 30Hz
- Phase control
- Variable bass boost 0-12dB
- Dimensions - 340mm x 245mm x 78mm

 **Spezifikation**

- kompakter aktiver 10" Subwoofer
- 200W RMS 400W max
- Autostart bei High-Level-Eingabe
- Lautstärkeregelung per Fernbedienung
- High und Low Level Eingang
- Schnellkupplung für Strom- und High-Level-Kabel
- Aluminiumgehäuse
- Subsonicfilter bei 30Hz
- Phasensteuerung
- Variabler Bass Boost 0-12dB
- Abmessungen - 340mm x 245mm x 78mm

 **Caratteristiche tecniche**

- Subwoofer attivo compatto da 10"
- 200W RMS 400W massimo
- Awio automatico su input di alto livello
- Controllo remoto del guadagno
- Ingresso di alto e basso livello
- Connettore rapido per cavo di alimentazione e di alto livello
- Rivestimento in alluminio
- Filtro subsonico a 30Hz
- Controllo di fase
- Aumento dei bassi variabile 0-12dB
- Dimensioni: 340mm x 245mm x 78mm

 **Specifikationer**

- 10" kompakt aktiv subwoofer
- 200W RMS 400W Max
- Autostart på högnivåingångarna
- Volymkontroll via kabelburen fjärrkontroll
- Hög och lågnivåingångar
- Ström, samt högnivåingångar via snabbkontakter
- Aluminiumkabinett
- Subsonic-filter vid 30Hz
- Faskontroll
- Variabel basför boost 0-12dB
- Dimensioner - 340mm x 245mm x 78mm

 **Características**

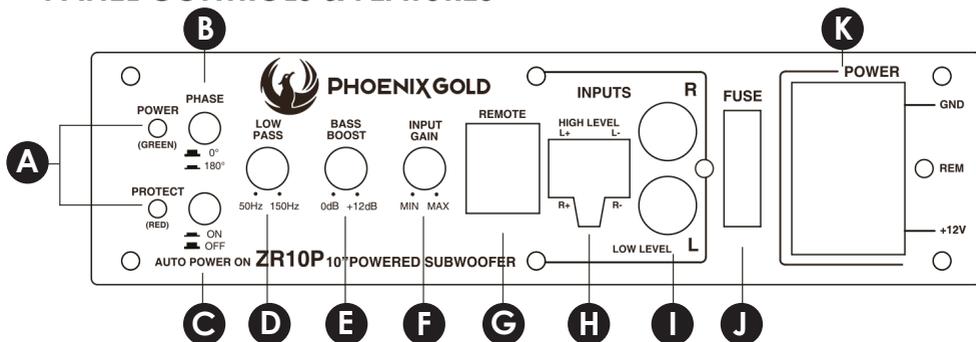
- Subwoofer de 10" active compacto
- 200W RMS 400W Máximo
- Inicio automático de entrada de alto nivel
- Control remote de ganancia
- Entrada de nivel alto y bajo
- Conector rápido de cable de alimentación y alto nivel
- Carcasa de aluminio
- Filtro subsónico a 30Hz
- Control de fase
- Incremento de graves variable 0-12dB
- Dimensiones - 340mm x 245mm x 78mm

 **Caracteristiques techniques**

- Subwoofer actif compact de 10 pouces
- 200W RMS 400W maximum
- Démarrage automatique sur une entrée de haut niveau
- Contrôle de gain à distance
- Entrée haut et bas niveau
- Connecteur rapide de câble d'alimentation et de haut niveau
- Boîtier en aluminium
- Filtre subsonique à 30Hz
- Contrôle de phase
- Amplification des basses variable 0-12dB
- Dimensions - 340mm x 245mm x 78mm

## ZR10P - ACTIVE SUBWOOFER

### PANEL CONTROLS & FEATURES



#### A. POWER STATUS LED

This bi-color LED glows green when power is on and no problems are present. If one of the protection circuits comes on, it will change to red.

#### B. PHASE SHIFT

Use this switch to help compensate for time alignment problems in the system. Such problems usually result from having the subwoofer at a different distance from the listener than the other speakers in the system.

#### C. AUTO POWER ON

The "AUTO POWER ON" (ON/OFF) is for high level (speaker-level) connections. When the switch is in the "ON" position, the subwoofer will automatically turn on when there is signal input. If the amplifier detects no signal input, the amplifier will automatically power off. If you prefer to use the remote turn on/off connection, leave the switch in the "OFF" position.

**Note: Please connect the remote terminal to the remote output of head unit as Fig.5 when you hear the unit turn ON/OFF POP noise from the subwoofer.**

#### D. LOW PASS FILTER

This control permits you to define the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set.

**Note: The low pass filter frequency can be higher or lower than the standard. There is +/-20% tolerance.**

#### E. BASS BOOST

The bass boost feature will increase the sound level in the bass frequencies.

#### F. INPUT GAIN CONTROL

After you have installed your system, turn this control to minimum. Turn the head unit on (and the subwoofer will turn on via the remote connection). Turn the head unit volume to about 2/3 full level. Slowly turn up the subwoofer input gain control until you hear a small amount of distortion. Then reduce the level until the distortion is completely gone. Level the control at this setting.

### ZR10P - ACTIVE SUBWOOFER

## PANEL CONTROLS & FEATURES

### G. REMOTE LEVEL CONTROL PORTAL

Attach the included remote level control to control the volume level of the subwoofer independently.

### H. HIGH LEVEL (SPEAKER-LEVEL) INPUTS

If your head unit does not have RCA outputs you can use the speaker outputs for the audio source for the subwoofer. Use the supplied cable and wire harness and connect the outputs properly as shown in the connection diagram in this manual.

### I. LOW LEVEL RCA INPUTS

Low level inputs are the recommended way to introduce the audio signal to the subwoofer if RCA outputs are present on your head unit or other signal source (such as a sound processor).

### J. FUSE

Do not use a fuse with a different value and NEVER replace the fuse with a wire or coin.

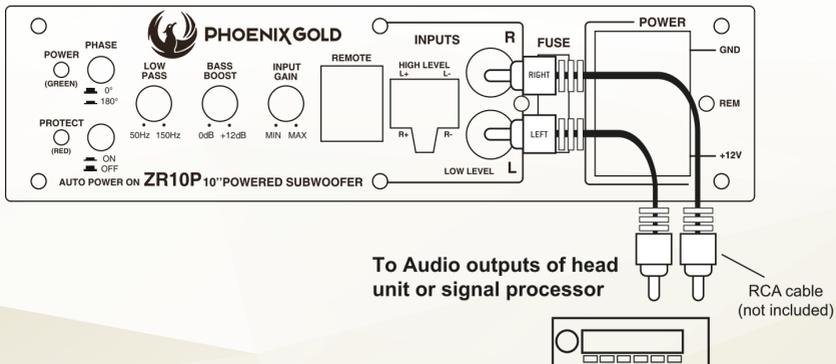
### K. POWER INPUT TERMINAL

## LOW LEVEL INPUT WIRING

Low-level (RCA) input wiring is preferred for best audio performance. Most trunk and underseat installations will require a 6-12 feet RCA cable. Always use a high quality cable.

**NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!**

**Fig. 1**



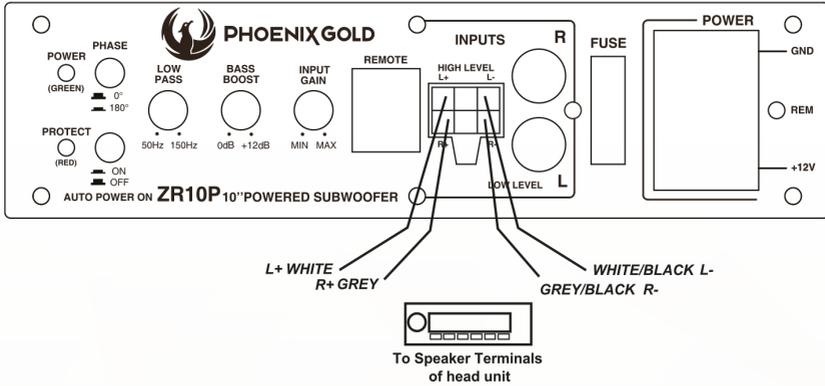
## ZR10P - ACTIVE SUBWOOFER

### HIGH LEVEL INPUT WIRING

The high level input(s) should only be used when your receiver lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phase problems.

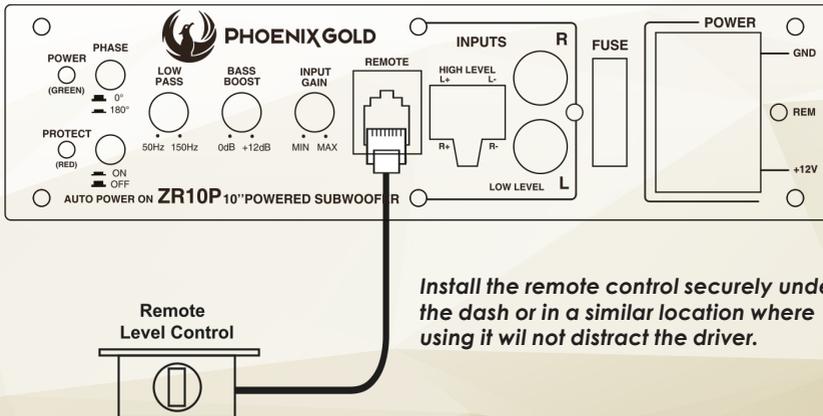
**NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!**

**Fig.2**



### REMOTE LEVEL CONTROL CONNECTION

**Fig.3**



### ZR10P - ACTIVE SUBWOOFER

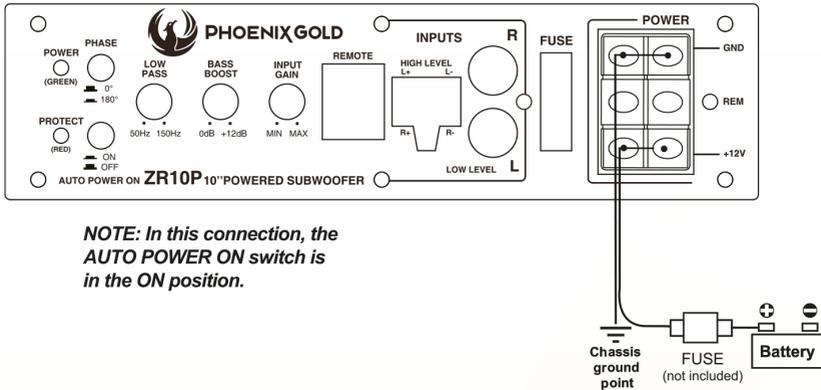
#### POWER CONNECTIONS

Connect the ground terminal to the closest point on the chassis of the vehicle. Use 8-gauge (or heavier) wire to connect the ground cable.

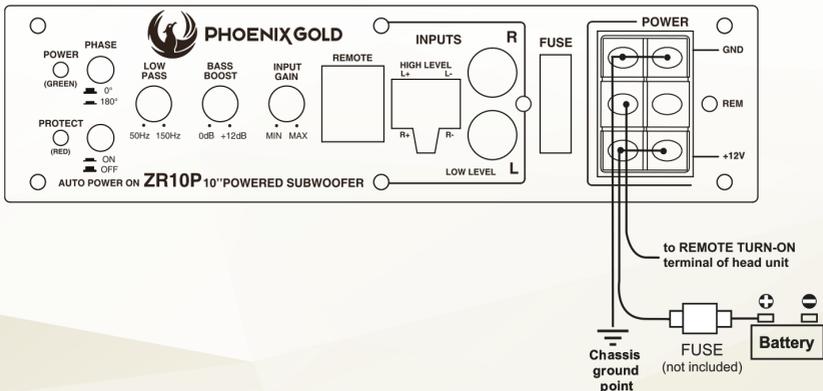
Connect the remote terminal to the remote output of head unit using 16-gauge (or heavier) wire.

Connect an empty fuse holder within 16" (40 cm) of the car battery, and run 8-gauge (or heavier) cable from this fuse to the amplifier location. Then connect the fuse holder to the "BATT+" (+12V) connection on the subwoofer rear panel.

**Fig.4**



**Fig.5**



## ZR10P - ACTIVE SUBWOOFER

### TROUBLESHOOTING

If you experience operational or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problem(s) persist, read the following troubleshooting tips which may help eliminate the problem.

### SYMPTOM POSSIBLE SOLUTION

<b><i>Product will not power up.</i></b>	<ul style="list-style-type: none"> <li>• Check to make sure you have a good ground connection.</li> <li>• Check that the 'Remote Input' (Turn-On) has at least 5V DC.</li> <li>• Check that there is battery power on the (+) terminal.</li> <li>• Check that there is at least 12V.</li> <li>• Check all fuses, replace if necessary.</li> <li>• Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then repower it.</li> </ul>
<b><i>Protection LED comes on when the amplifier is powered up.</i></b>	<ul style="list-style-type: none"> <li>• Turn down the volume control on the head unit to prevent overdriving.</li> <li>• Check that there is good air circulation around the amp.</li> </ul>
<b><i>No output.</i></b>	<ul style="list-style-type: none"> <li>• Check that all fuses are OK.</li> <li>• Check that the unit is properly grounded.</li> <li>• Check that the 'Remote Input' (Turn-On) has at least 5V DC.</li> <li>• Check that the RCA audio cables are plugged into the proper inputs.</li> </ul>
<b><i>Low output.</i></b>	<ul style="list-style-type: none"> <li>• Reset the 'Level Control'.</li> <li>• Check the 'Crossover Control' settings.</li> </ul>
<b><i>High hiss in the sound.</i></b>	<ul style="list-style-type: none"> <li>• Disconnect all RCA inputs to the power sub's control panel. If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty / noisy component is found.</li> <li>• It is best to set the amplifiers input level control as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion).</li> </ul>
<b><i>Squealing noise is present.</i></b>	<ul style="list-style-type: none"> <li>• Check for improperly grounded RCA interconnects.</li> </ul>
<b><i>Distorted sound.</i></b>	<ul style="list-style-type: none"> <li>• Check that the 'Input Level Control' is set to match the signal level of the head unit.</li> </ul>
<b><i>Engine noise (static type)</i></b>	<ul style="list-style-type: none"> <li>• This is usually caused by poor quality RCA cables which can pick up radiated noise. Use only the best quality cables, and route them away from power cables.</li> </ul>
<b><i>Engine noise (alternator whine)</i></b>	<ul style="list-style-type: none"> <li>• Check that the RCA grounds are not shorted to the vehicle chassis.</li> <li>• Check that the head unit is properly grounded.</li> </ul>



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## **Phoenix Gold Product Warranty**

### LIMITED WARRANTY ON AMPLIFIERS

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) years from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold will (at its discretion) repair or replace the defective product with new or re-manufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

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