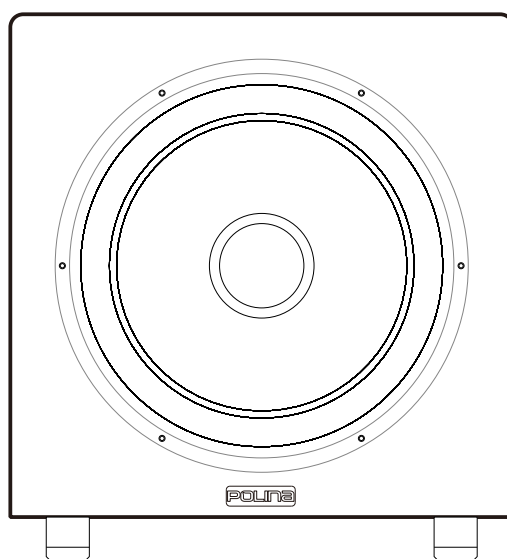




# **A Series 10 Inch Active Subwoofer System OWNER'S MANUAL**





	<p>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.</p>
	<p>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 appliance.</p>

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide bladed or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The equipment shall be used at maximum 35 degree C ambient temperature.
16. Do not open the equipment to reduce the risk of electrical shock. For safety reasons it is only allowed to be opened by qualified service personnel.
17. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. And the apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
18. The MAINS plug is used as the disconnect device and shall remain readily operable.
19. The product shall be used on open bench.
20. No naked flame sources, such as lighted candles, should be placed on the apparatus.

## I. Introduction

### 1. Welcome to POLINA®

POLINA® is one of the most highly regarded brands of speakers available today. We appreciate your business and we stand committed to providing our customers with the highest degree of quality and service in the industry.

POLINA® subwoofers are a superb choice for bass reinforcement of most audio systems. They have been designed with advanced technology components that accurately reproduce low frequencies in all types of music and movies. For optimum system performance, we recommend pairing them with our acclaimed POLINA® loudspeakers.

### 2. Features

#### World Class Digital Amplifier Technology

These powered subwoofers incorporate the latest digital amplifier technology to maximize performance while generating little heat. In standby mode, the subwoofer consumes less than 0.5 watts, making it one of the “greenest” solutions available.

#### Slot Port

The aerodynamic port design minimizes turbulence and allows for continuous air flow, which improves efficiency, maximizes output, and reduces distortion.

#### Tuned System Performance

Offers rear-mounted volume control, low-pass crossover adjustment, and continuously variable (0-180 degrees) phase control to ensure optimal system integration, giving a seamless blend for an unbelievable music and movie experience.

#### Signal-Sensing For Automatic Power Control

There are two power mode options with a POLINA® powered subwoofer: Always On and Auto Sense. When Auto Sense is selected, the subwoofer will automatically switch to a power-saving standby mode until an input signal is detected. Power will turn on whenever a minimal amount of signal is detected on the input jacks, and off again when no signal is present for approximately 15 minutes.

#### Gold-Plated Inputs

POLINA® only uses the highest quality inputs available to maximize performance. Stereo inputs are included for easy connections. For home theater use, the left RCA unbalanced input also serves as an LFE (Low Frequency Effects) input for a direct connection from the receiver or processor. For added versatility, there are also gold-plated, five-way binding-post speaker-level inputs and outputs.

## II. Installation and Setup

### 3. Overview

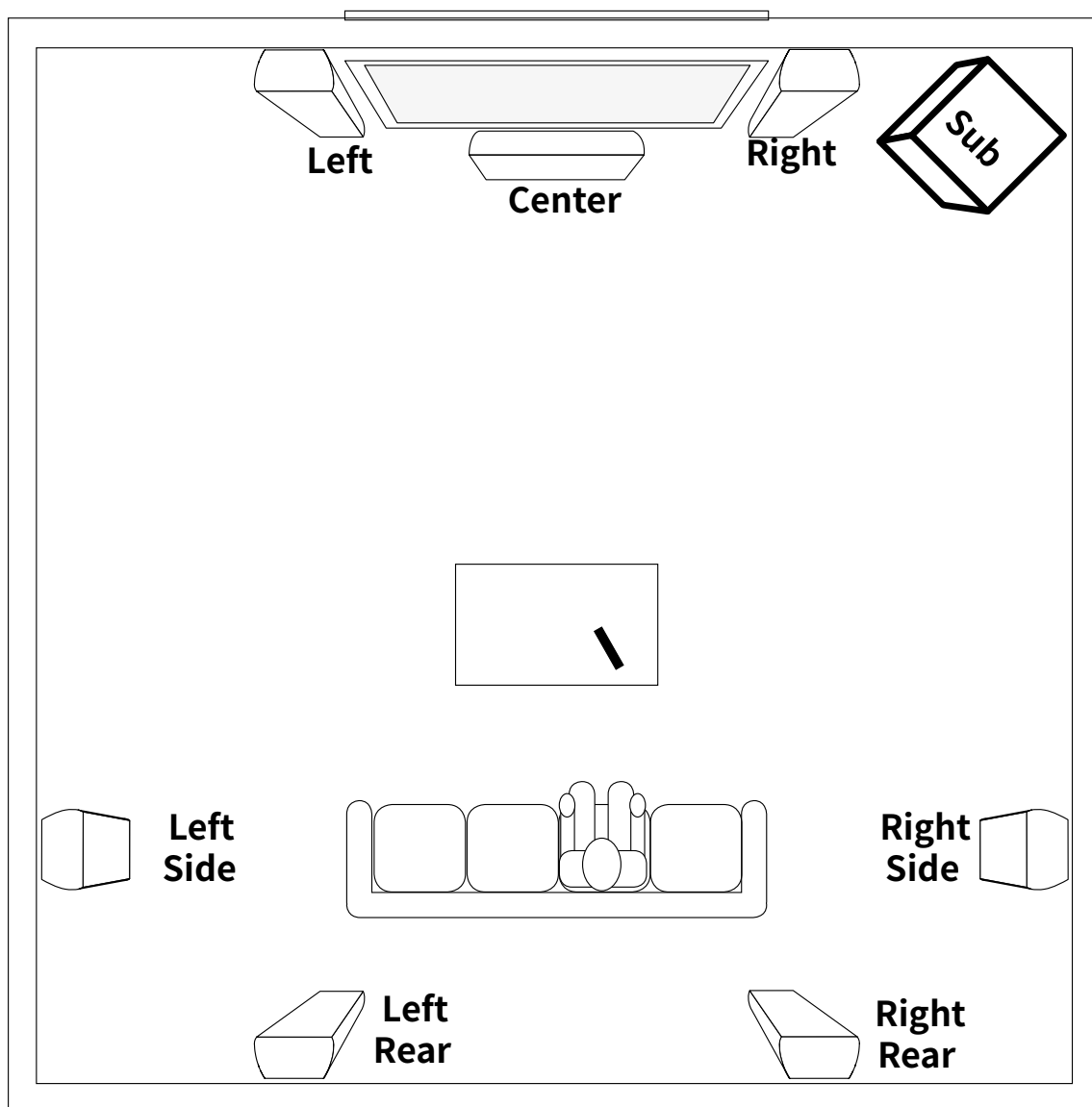
Proper installation of the **POLINA®** Sub powered subwoofer requires these basic steps:

1. Place the subwoofer in the room.
2. Make connections to the system.
3. Fine tune the subwoofer for the best sound quality and operation.

Review the options for each step and use the best method for the application. After installation is complete, test the system thoroughly to ensure reliability and sustained sound quality. If the subwoofer will not function or perform as expected, make sure that installation was completed correctly and check the Troubleshooting Steps before contacting **POLINA®** for assistance.

### 4. Placing the Subwoofer

Subwoofer placement can have an effect on the performance that you receive. All rooms are different, but the strongest output will likely occur if the subwoofer is placed in a corner of the room on the same wall as the front channel speakers. This is known as the boundary effect and will emphasize certain bass frequencies while canceling others. Some listeners will find this to be the best sounding result, while others may find it “boomy” or muddy. Experiment with the placement options available to you and use the tuning instructions that follow in the “Installation” section of this manual.



## 5. Settings and Controls

### 5.1 Setting the Power Mode

#### 5.1.1. ON Mode

If the subwoofer is set to ON mode, it will always be ready to play. However, undesired noise from interference or connections changing may be heard, and leaving the subwoofer on all the time is not energy efficient. Use the standard ON mode only if needed. Set the power switch to OFF when the amplifier is not in use.

#### 5.1.2. AUTO Mode

Setting the switch to AUTO enables AUTO Sense. The subwoofer turns on and off automatically in response to signal on the inputs. The unit will enter standby mode if no signal is sensed for 15 minutes.

### 5.2. Fine Tuning Audio and Operation

After making all the connections and calibrating the loudspeakers, set up your POLINA® subwoofer using the following steps:

1. Set the MODE switch to the 'ON' position for setup.
2. Plug the subwoofer into an electrical outlet using the included power cord. The status LED will illuminate solid blue when power is present and the subwoofer is on.
3. Set the controls and switches to their initial setup positions:
  - VOLUME dial set to 50%, or 12 o'clock
  - CROSSOVER dial: Set to LFE if LFE input is used; Otherwise, set to match the low-end frequency limit of the satellite speakers in use. See specifications for the speakers installed to determine their low-end limit.
  - PHASE set to 0°
4. Play a movie scene or music track and set the system volume to an average level. Listen to the bass level from your favorite listening position. Adjust the VOLUME control as desired.
5. Continue listening to your favorite music and movie sources using the settings chosen for volume and crossover. Experiment with the PHASE setting until you find the best setting for the installation. Depending on your subwoofer's placement, the bass may sound louder or deeper when the phase has been optimized. In some cases, adjusting phase will make no audible difference.
6. Once calibration is complete, switch the power mode back to 'AUTO' if Auto Sense mode is being used. Wait 15-20 minutes to confirm that AUTO mode is working properly. See Troubleshooting if issues occur.
7. Setup is now complete.

## 6. Troubleshooting

POLINA® speakers are designed to function trouble-free. Most problems that occur are due to simple issues. If you have trouble, please check the list of simple fixes below.

If the problem persists, contact POLINA® Technical Support at Local distributor

**Note:** During troubleshooting, temporarily set the MODE switch to 'ON' to ensure signal-sensing power mode is disabled. Ensure that the Status LED is blue with the switch on.

### No Sound

- If power mode switch is set to On and LED is Red, call Technical Support.
- Verify that audio is coming from the source selected. Select another source to test, or connect the source directly to the subwoofer input, bypassing any other equipment.
- Ensure that any connected A/V equipment is turned on and connected properly.
- Check cable connections for damage, poor contact, or short circuits.
- Ensure the subwoofer volume is turned up to a reasonable level. The control is located on the back of the unit.

### Interference

If undesired noise is heard coming from the subwoofer:

- Check cable connections for damage, poor contact, or short circuits.
- If the issue only occurs when the system is off, check the power mode switch to be sure the subwoofer is set to off, or if using AUTO mode, check that the subwoofer is actually turning off after 15 minutes of inactivity (LED will be Red). If the LED is Blue, the sources may be outputting signal at all times, causing the subwoofer to remain on.
- If the signal cable is installed in the wall, it may be running parallel to high voltage cables. Test the system by running a separate in-room cable. If the issue is resolved, a new cable should be installed with proper clearance from high voltage.
- Common sources of interference include Wi-Fi antennas and devices or cordless phones set up too close to the subwoofer or source.

## 7. Cleaning and Maintenance

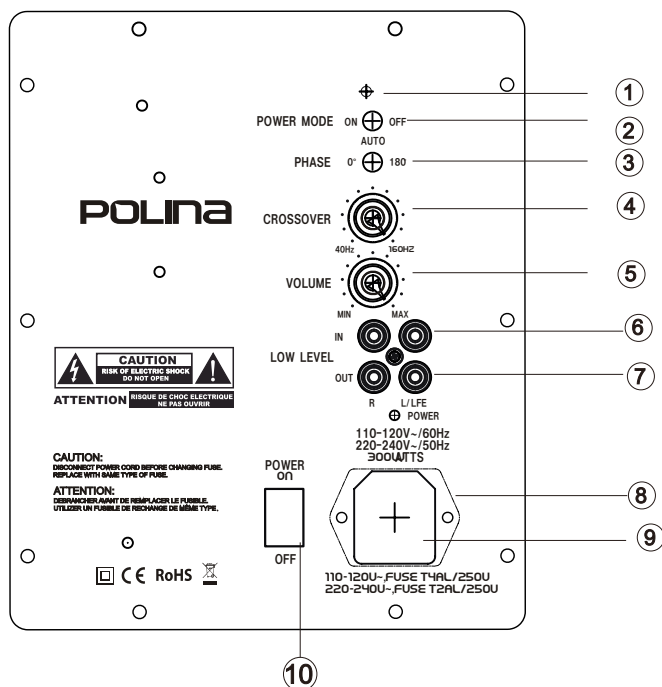
- The exterior of the Element subwoofer may be cleaned using a cloth. Use a vacuum cleaner dust brush attachment or lint brush to clean the grille.
- If the subwoofer enclosure is moved often for cleaning or relocation, check each time to ensure that connections are not damaged or loose.

## 8. 1-Year Limited Warranty

POLINA® Subwoofers have a 1-Year Warranty on the amplifier. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to a designated service center with prior notification and an assigned return authorization number.

## III. Reference

### 9. Connections and Controls



- 1. STATUS LED**  
Red- Subwoofer is in standby mode, or power mode switch is set to OFF. AC power is present.  
Blue- Subwoofer power mode switch is set to ON, or is set to AUTO and signal is being received.
- 2. Power Mode Switch**  
3 way toggle switch for setting power mode to OFF, AUTO, or ON.
- 3. Phase Knob**  
Set the phase of the subwoofer in relation to the listening area. The value can be 0° or 180°.
- 4. Crossover Knob**  
Adjust the crossover frequency (limits the highest frequency the subwoofer will play).  
\*Note: Set the crossover knob to “LFE” if the LFE input is used.
- 5. Volume Knob**  
Adjust subwoofer volume.
- 6. LOW LEVEL Inputs L/R**  
Low level input, the signal comes from the low frequency signal output of the audio source, the signal is processed in the subwoofer, the subwoofer can control the low frequency adjustment. R/L input at the same time, will get better low frequency effect
- 7. LOW LEVEL OUT R/L&LFE**  
The processed low-frequency signal output. To connect LFE, use the L (left)out channel connections. LFE is a low-frequency, straight-through input that is not affected by the subwoofer's internal low-pass filter.
- 8. Power cord inlet (fuse holder)**  
Power cord inlet: connect the provided power cord .
- 9. Fuse holder**  
Main power fuse. When the input voltage is 110-240V, the fuses are T3.25AL/110VAC and 2AL/250VAC.
- 10. Main power switch**  
If the switch is turned off, the power LED will turn off, cutting off the entire power supply.

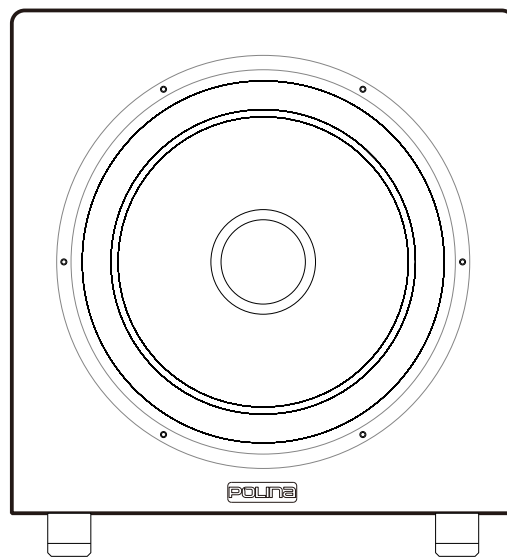
## 10. Specifications

<b>Description</b>	A Series 10 Inch
Type	Active subwoofer system
Drivers	1 x 10 inches
Max SPL output(1m)	110dB
Frequency Response	35Hz-300Hz
Impedance	22K
Power Handling	300W
Product Dimensions	340*340*365 mm (W×H×D)
Shipping Dimensions	435*470*475mm (W×H×D)
Weight	15.70/34.61(Kg/lb)
Shipping Weight	18.00/39.68(Kg/lb)



# A系列10吋主动式有源低音炮

## 使用说明书





	等边三角形内的带有箭头符号的闪电旨在提醒用户产品外壳内存在未绝缘的危险电压，该电压可能足以对人造成电击危险
	等边三角形内的感叹号旨在提醒用户设备随附的文献中存在重要的操作和维护（维修）说明

1. 使用产品前请详细阅读本手册。
2. 请遵守手册中的提示说明。
3. 请留意手册中的注意事项。
4. 请按本手册的要求使用本设备。
5. 请勿在水附近使用本设备。
6. 仅用干布清洁本设备。
7. 不要阻塞任何通风口，  
按照制造商的说明进行安装。
8. 请勿将本产品安装在任何热源附近，  
例如散热器，蓄热器，火炉或其他产生热量的设备（包括放大器）。
9. 请勿破坏极性或接地型插头的安全性；  
极化插头有两个叶片，一个比另一个更宽；  
接地型插头有两个叶片和第三个接地插脚；  
为了您的安全，请使用宽叶片或第三个插脚；  
如果提供的插头不适合您的电源插座，  
请咨询电工更换陈旧的电源插座。
10. 保护电源线不被踩踏或挤压，尤其是插头，  
便利插座以及从设备引出的地方。
11. 只使用制造商指定的附件/配件。
12. 仅可与制造商指定的或与设备  
一起出售的推车，架子，三脚架，  
托架或桌子一起使用；使用手推车时，  
在移动手推车/设备组合时要格外小心，  
以免翻倒而造成伤害。
13. 在雷雨天气或长时间不使用时，请拔下本设备的电源。
14. 将所有服务交给合格的服务人员。  
当设备以任何方式损坏时，例如电源线或插头损坏，  
液体溅出或有物体掉入设备，设备被雨淋或受潮，  
无法正常工作时，都必须进行维修。
15. 设备应在**35**摄氏度以下的环境温度下使用。
16. 请勿打开设备以免受到电击危险；  
出于安全原因，仅允许合格的维修人员打开。
17. 警告：为减少火灾或电击的危险，请勿使本设备  
遭受雨淋或受潮。 不得将本设备暴露于滴水或  
溅水的地方，并且不得在本设备上放置装有液体  
（例如花瓶）的物品。
18. MAINS插头用作断开设备。
19. 该产品应在开放式工作台上使用。
20. 请勿在设备上放置明火源，例如点燃的蜡烛。

## I. 使用说明

### 1. 欢迎选用 POLINA<sup>®</sup> 宝莲娜主动式有源低音炮产品

POLINA<sup>®</sup> 宝莲娜是当今倍受推崇的扬声器品牌之一。我们一直致力于为客户提供高质量影音产品和服务。

POLINA<sup>®</sup> 宝莲娜主动式低音炮是一个能量感充足、速度响应快的音频系统，其运用先进的技术组件设计，准确地再现低频在所有类型的音乐和电影。为发挥该音频系统最优的系统性能，我们建议搭配 POLINA<sup>®</sup> 宝莲娜品牌音响使用。

### 2. 产品特点

#### 世界一流的数字放大器技术

驱动低音扩音器把最新的数字放大器技术最大化性能，同时产生的热量很少。在待机模式下，低音炮消耗小于0.5瓦，使它成为一个“环保”解决方案。

#### 优化气动结构

优化的气动端口设计使湍流最小化，并产生连续的气流，从而提高效率，使输出最大化

#### 专业调校的系统性能

提供后置音量控制、低通交叉调整和连续变量(0 - 180度)相位控制，以确保最佳的系统集成，提供无缝融合为一个令人难以置信的音乐和电影的体验

#### 信号敏感自动功率控制

有源低音炮有两种电源模式选项：始终打开和自动感应。选择自动感应时，低音炮将自动切换到省电待机模式，直到检测到输入信号为止。只要在输入插孔上检测到最小量的信号，电源就会打开；如果在大约15分钟内没有信号出现，电源将再次关闭。

#### “黄金”信号输入

仅使用可用的最高质量输入来最大化性能。包括立体声输入，方便连接。对于家庭影院使用，左RCA不平衡输入也可用作LFE（低频效果）输入，用于直接从接收器或处理器连接。

## II. 安装与放置

### 3. 开箱检查

当你收到低音炮时，小心打开盒子取出，检查它是否有任何外观损坏；如果发生的任何损坏都可能是运输途中造成。如果由于某种原因您的低音炮到达损坏，请联系经销商。

箱内包含物：国标电源线一条，1公转2母RCA信号线条，手套一双，说明书一本，保修卡一本。

### 4. 放置低音炮

我们建议最好放在离墙近的地方。不要放在离墙较远或离门口近的角落。如果使用的是多个低音炮，可以尝试将他们放在不同的地方，当你挑选不出好的位置时，可以将它们放在同一个位置，把它们堆起来或并排地放置也可以。为避免相位问题，请将低音炮放在与听力位置相同的地方。

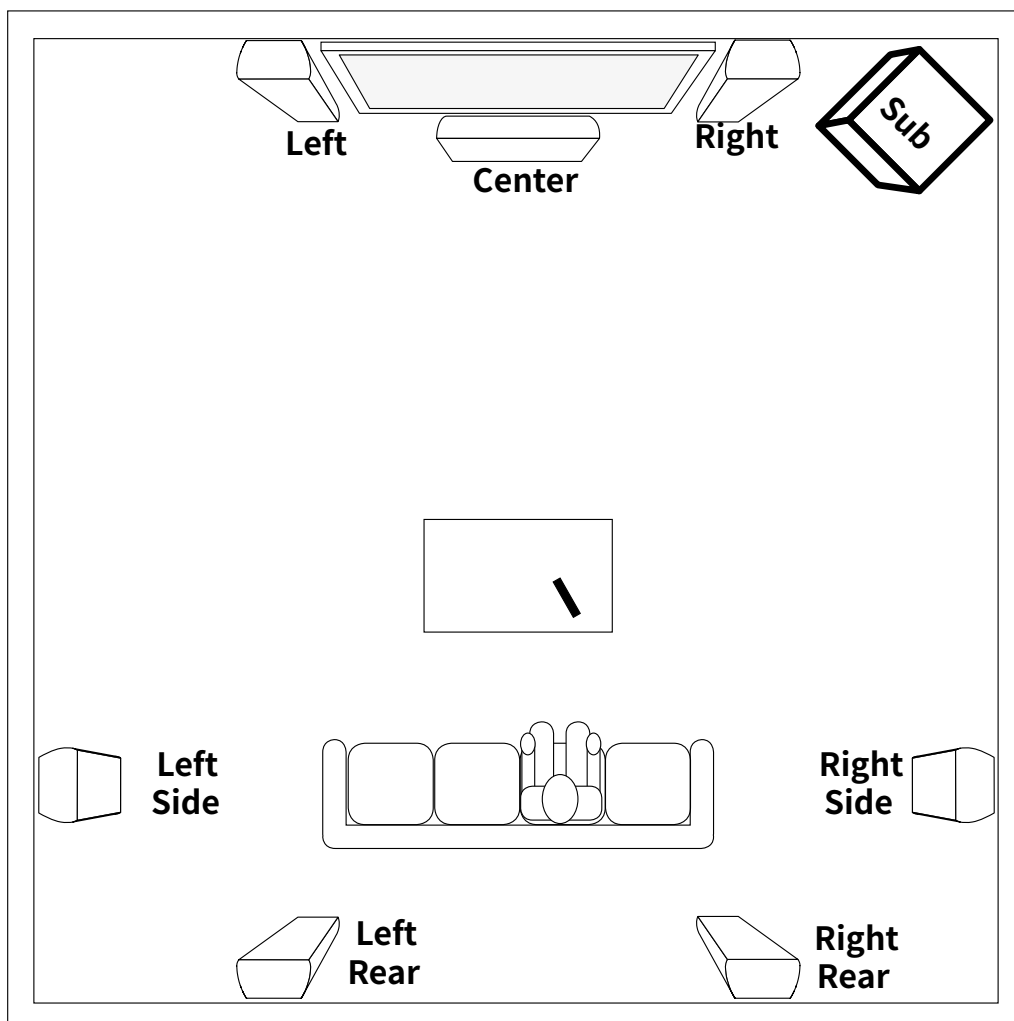
低音效果的好坏取决于房间本身。低频音大部分是受房间大小和建筑结构影响。重现低音时，每个房间都是不一样的。在特定的房间，低音炮的每个位置的低音质量和数量会发生变化。在一些房间的角落位置可能会激发共振，导致杂音或混音。在这种情况下，越靠墙中心远离角落声音效果越好。

由于低音炮会产生很多的音波能量，它的输出可能使监听房间四周房间产生振动。如果在你的房间出现此现象，需要减少物体的振动。

低音炮必须保障背板通风。低音炮的功放会安装在背板上，产生热量。请注意以下：

1. 低音炮的散热器上有足够的空隙，不要用布或不通风柜包起来。
2. 不要将低音炮放在烘炉旁或强制空气加热出口。
3. 不要在户外或潮湿的环境中使用低音炮。
4. 所有系统布线完成之后才能将低音炮插入AC输出线。

典型的低音炮和环绕系统音响摆放见下图：



## 5. 设置和控制

首先连接好所有的输入和输出连接线，音量调节设置为十二点钟方向，再接通低音炮电源，低音炮的状态指示LED将点亮蓝色；接下来设置你的低音炮，请仔细阅读以下内容：

### 1. 设置电源模式

开启模式：开关拨至“ON”的位置为常开模式，指示灯亮蓝色，它将永远是整机工作模式，是不节能。此功能只有在需要时才使用，放大器在不使用时需要将电源开关关闭时。

自动模式：拨至AUTO位置，需输入信号才开机，指示灯才亮蓝色，当音乐播放完毕无信号约15分钟后自动进入待机模式，指示灯亮红色；待机时只消耗小部分的电，若担心耗电，请关掉电源开关。

关闭模式：当拨至OFF位置，是直接关机，指示灯亮红色，整机一直处于待机工作。

### 2. 相位控制的使用

为了使低音炮和主喇叭的结合最佳，应进行相位测试。该0° 到180° 控制装置用来在声学上把低音炮的输出与主音箱的输出相互匹配。由于卫星喇叭位于低音炮的不同位置，并且每个喇叭位于听众的不同距离，距离上的细微差异意味着不同喇叭到达听众的时间也是不同的。这些不同会产生相位异常。会对房间内的声音重现产生不好的影响。所以相位测试是很有帮助的。

## 6. 故障排查

低音炮的功放具有高度的可靠性，一般不需要售后服务的，如果你有麻烦，以下的操作说明可以帮您解决或诊断低音炮可能出现的问题。进行简单的修复。

注意：在故障排除期间，暂时将模式开关设置为“开启”，以确保信号感应功率模式已被禁用。确保状态LED是蓝色的，打开开关。

A: 无声

1. 验证音频是否来自所选源。或者直接将音源连接到低音炮输入，绕过任何其他设备。
  2. 确保任何连接的设备接通并正确连接，检查电缆连接是否损坏、接触不良或短路。
  3. 确保低音炮音量达到合理水平。如果设置在MIN位置，顺时针旋转。
  4. 确保电源开关设为“AUTO”或“ON”的位置，如果为“AUTO”时没有输出，要调成“On”位置。
  5. 如果灯亮，但没有声音，可以尝试以下测试：从接收器或处理器的背部断开唱机互联电缆。触摸连接器的顶端。如果触摸时听到从低音炮中发出声音，说明它正常工作。需从系统的其它地方检查解决问题的方法。
- 如果低音炮的背板LED灯不亮（通常是蓝色），检查保险丝。在更改保险丝之前要拔下插头。如果保险丝里面的元件坏了，要用新的同样的保险丝替代，如果新保险丝马上就断了，请联系经销商。

B: 噪音或干扰声

由于低音炮可以重现50/60Hz的噪音频率，此噪音是从系统的其它地方发出来的。不要将喇叭线和唱机互联电缆放在AC线和组件电源旁边。靠近AC线的线和电缆是造成嗡嗡声的常见因素。如果必要的话，可以重新改变线路方向。为了判断噪音的来源，可以移掉所有低音炮上的输入电缆，但AC线供电保留。将音量调到“MAX”位置。如果没有听到嗡嗡声，那就不是低音炮的原因，可能是其它设备的问题；如果没有消失，就是低音炮的问题。在这种情况下，请联系音箱经销商。

C: 断续工作

低音炮停止工作或断断续续，因为低音炮有一个过热保护电路可以保护它不会过热。在极高音量的连续操作数小时之后，此电路会自动断电保护功放。如果出现了这样的问题，请关闭电源开关让它休息半个小时之后，再开机它就可以正常运转。如果这种现象出现的很频繁，请联系经销商。

## 7. 清洁维护

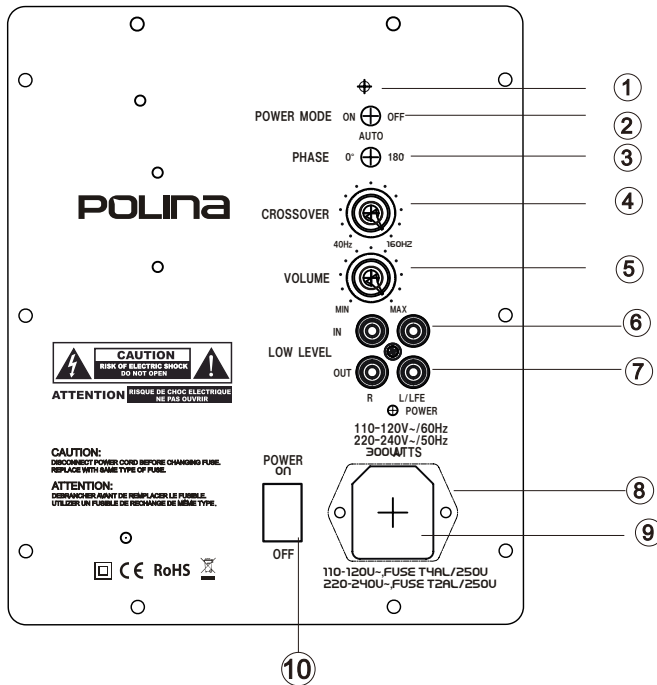
低音炮的外部可以用柔软的无绒布清洁，使用吸尘器灰尘刷子附件或皮棉刷清洁格栅。如果低音炮箱体经常移动清洗或重新定位，每次检查确认是否有连接损坏或松动。

## 8. 售后服务--质量保证

低音炮放大器有壹年保修。本保证包括在正常使用条件下在材料或工艺上有缺陷的所有部件的零件。产品要保修必须先和经销商联系，回到指定的服务中心。如人为操作不当或私自拆卸改装，外观破损等，不提供任何服务，如有需要，我们需要适当收取维修费，需买方负责材料费及来回运费。

## III. 技术参考

### 9. 控制说明



1. POWER指示灯:工作时POWER指示灯亮蓝色;待机时POWER指示灯亮红色。
2. ON/AUTO/OFF开关:信号自动开关机控制。当拨至ON位置，是直接开机，POWER指示灯亮蓝色;当拨至AUTO位置，需输入信号才开机，POWER指示灯才亮蓝色，当音乐播放完毕无信号，约15分钟后自动进入待机模式，POWER指示灯亮红色;当拨至OFF位置，是直接关机，POWER指示灯亮红色。
3. PHASE: 改变低音炮的相位，使其与系统中的其余扬声器同相工作。可设置0°或180°
4. CROSSOVER: 调整分频频率(限制低音炮将播放的最高频率)，信号频率的低通变化从40Hz—160Hz。  
注:如果使用LFE输入，频率调整旋钮不起作用。
5. VOLUME: 调节低音炮音量大小。
6. LOW LEVEL IN R/L: 线路输入，信号来源于音频源的低频信号输出，信号在低音炮里进行前级处理,低音炮可自行控制低频调节。R/L同时输入，将获得更佳的低频效果。
7. LOW LEVEL OUT R/L&LFE: 经过处理过的低频信号输出;L&LFE则兼低频直通输入，不受到低音炮内部低通滤波器的影响，选择此输入模式，分频点旋钮不起作用。
8. 电源线进口(保险丝座):电源线入口:连接所提供的电源线
9. 保险丝座:主电源保险丝。输入电压为110-240V时,保险丝为T3.25AL/110VAC和2AL/250VAC。
10. 主电源开关:如果开关关闭，电源LED将关闭,切断整个电源。

10. 技术指标

描 述	A系列10吋
类 型	主动式有源低音炮
扬声器	1 x 10 inches
最大声压级	110dB
频率响应	35Hz-300Hz
阻 抗	22K
功 率	300W
产品尺寸	340*340*365 mm (W×H×D)
包装尺寸	435*470*475mm (W×H×D)
重 量	15.70/34.61(Kg/lb)
整装重量	18.00/39.68(Kg/lb)