



惠威车用扬声器系统 (M SERIES MANUAL)

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Due to the reasons in the change of design or others, product information contained here may not be in conformity with product itself. We reserve the right of no prior notice before change.

产品说明书
www.hivi.com



Welcome to HiVi car loudspeakers system

Congradulations on your purchase of HiVi car loudspeakers. To ensure proper installation and operation please read this manual carefully.

This manual is to aid in your speakers installation, however there is no specific information of automobile dismantling or assembling for each car model. If you have no experience in this area, we recommend you consult an experienced automotive service center.

At HiVi we continuously strive for perfection. In our efforts to constantly improve our products, specifications may change without notice. The information concerning product specifications and instructions in this manual do not necessarily set forth all technical or other specifications of HiVi products.

For more information about our company and our products, please visit our website at www.hivi.com.



五、规格

| 型 号 | M1500II | M1600II |
|--------|-------------|-------------|
| 中 低 音 | M5W | M6W |
| 高 音 | BT28 | BT28 |
| 灵 敏 度 | 86dB | 88dB |
| 频率响应 | 50Hz-25k | 45Hz-25k |
| 最大功率 | 90W | 100W |
| 额定功率 | 40W | 50W |
| 额定阻抗 | 4ohms | 4ohms |
| 安装尺寸 | Φ138 | Φ157 |
| 开孔尺寸 | Φ120 | Φ148.5 |
| 安装深度 | >59 | >66 |
| 网罩尺寸 | Φ158x22 | Φ172x22 |
| 高通衰减斜率 | 12dB/Octave | 12dB/Octave |
| 低通衰减斜率 | 12dB/Octave | 12dB/Octave |

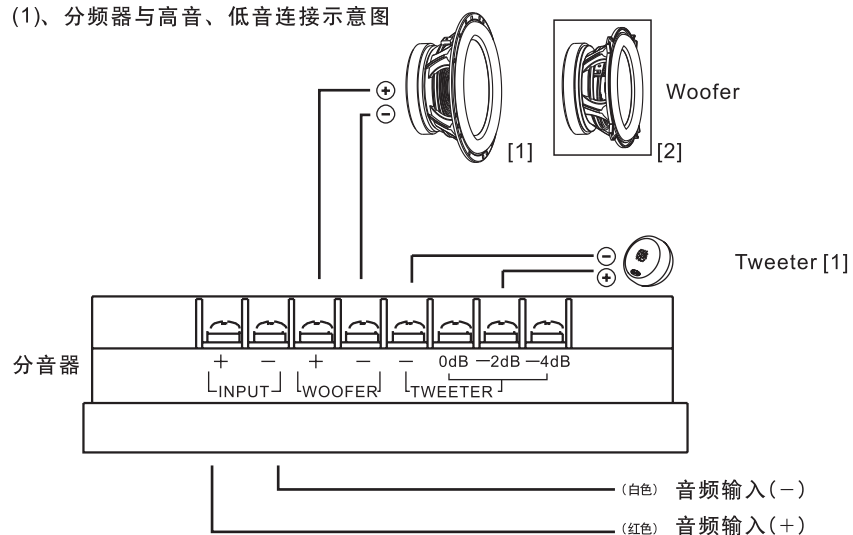
Please be sure your automobile is turned off before proceeding any further.





2、接线:

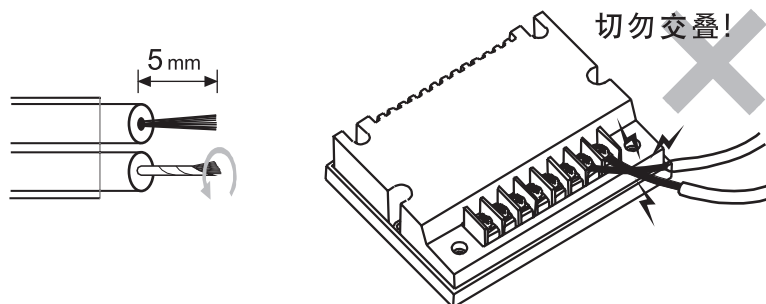
(1)、分频器与高音、低音连接示意图



注：高音部分可以根据汽车内饰情况及个人喜好设定为0dB、-2dB、-4dB 三种状态。

四、安装注意事项

1.铜线的裸露部分不要太长，约5mm左右（如下图），以免在使用中产生交叠而引起短路。



Introduction

HiVi has supplied the worlds top speaker companies with high-end drivers and manufactured high-end speakers of the finest quality nearly two decades .Talked about in audiophile circles for their dynamic range,low distorton,transparency, and overall accurate sound reproduction our isodynamic ribbon tweeters and kevlar-paper hybrid mid-bass drivers have been widely used. Both them provide an impressive platform for accurate sound reproduction.

Refer to the feedback from car audio market, we have integrated new technologies used in our professional car audio component system:M1500II,M1600II.The series follows our founding principles of dynamic performance,smooth timber largesound field,low distortion,while keeping installation restrictions and acoustic environment in mind.

This new series adopts a special revision of our M series Mid-bass driver. To adapt to the unique environment, we improve flexibility and moisture proof performance while at the same time improving acoustic clarity and smoothness. The drivers suspension was changed to make it more rigid and stable. The magnetic structure was also optimized to give natural sound, strong bass,and broad dynamic range.

We used our popular Q1 dome tweeter and optimized it for car audio.For matching with the M1500II and M1600II sets ,the new tweeter has been renamed the BT28.A special German manufactured membrane give the BT28 smooth, clear, and matural sound with incredibly low distortion, great compliances,and dynamic stability. The drivers aeronautic ferro-fluid cooled system greatly enhances power endurance. High power handling in a wide frequency range solves many problems of traditional car audio tweeters, such as sound field location.

Each Component Systems adopts a pair of High-End Crossovers units. Carefully designed by our experienced engineers to offer accurate natural sounding sound with a smooth transition between bass and tweeter units. Each unit also has the ability to adjust the tweeters sensitivity to suit your cars' interior environment.



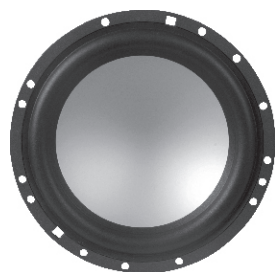
Hi-end Car Loudspeaker System

M Series

M1500II



M1600II

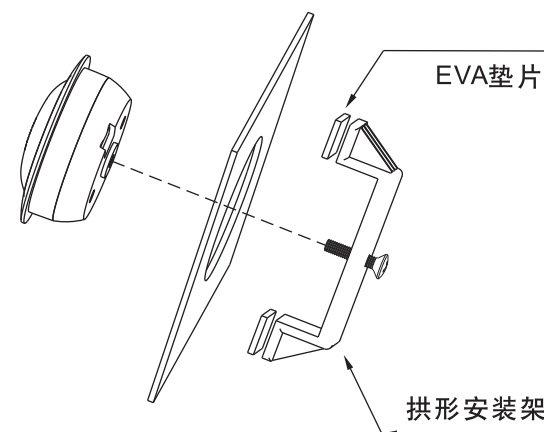


安装方式三:

如果需将高音喇叭安装在车门或其它隐蔽的位置, 可以采用此种方式。

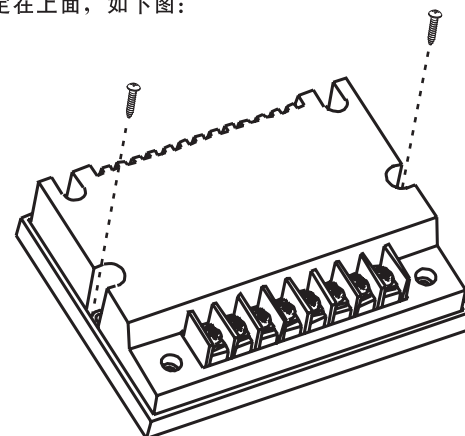
- 1、在选定的位置开一约为50mm的圆形孔。
- 2、将高音喇叭的窄边前盖换成宽边前盖后沉于圆形孔内。
- 3、在安装板的背面, 将螺丝穿过拱形高音安装架锁紧喇叭。
- 4、依实际情况, 如果安装板比较薄, 则可以先将3mm单面自粘性EVA粘于安装架的脚位。

注: 此种安装方式也需要在车上打孔, 故在安装前须确定高音喇叭的安装位置。



三、分音器安装

- 1、在车门或其它您想安装的地方确定安装位置, 以不影响其它部分为准, 然后将分音器用螺丝固定在上面, 如下图:





BT28的安装:

安装方式一:

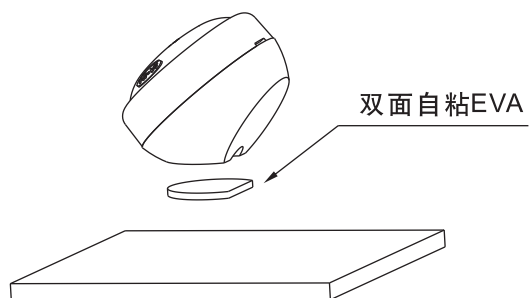
如不想改变车的结构, 将高音安装在仪表盘前方或车门边, 可以采用此种方式。

1、取半圆形双面自粘EVA, 去除一面保护纸后将它粘在高音喇叭的安装位(如图)。

2、将自粘EVA的另一面保护纸去除, 然后将喇叭粘在选定的位置。

3、调整喇叭方向, 以便达到理想的听音效果。

注: 此种方式优点在于可以完全不对车进行改变; 缺点是不能很牢固地固定高音。



安装方式二:

要想牢固地将高音安装在仪表盘前方或车门边, 可以采用此种安装方式:

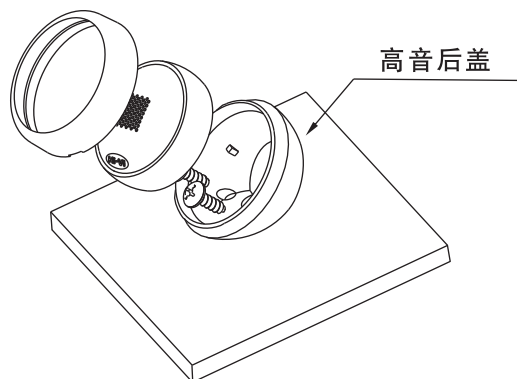
1、先用“一字”螺丝刀将高音喇叭的前盖打开。

2、按图示将安装螺丝穿过后盖、安装板, 将高音喇叭的后盖锁紧在选取的位置

3、将喇叭装入后盖内、压紧前盖。

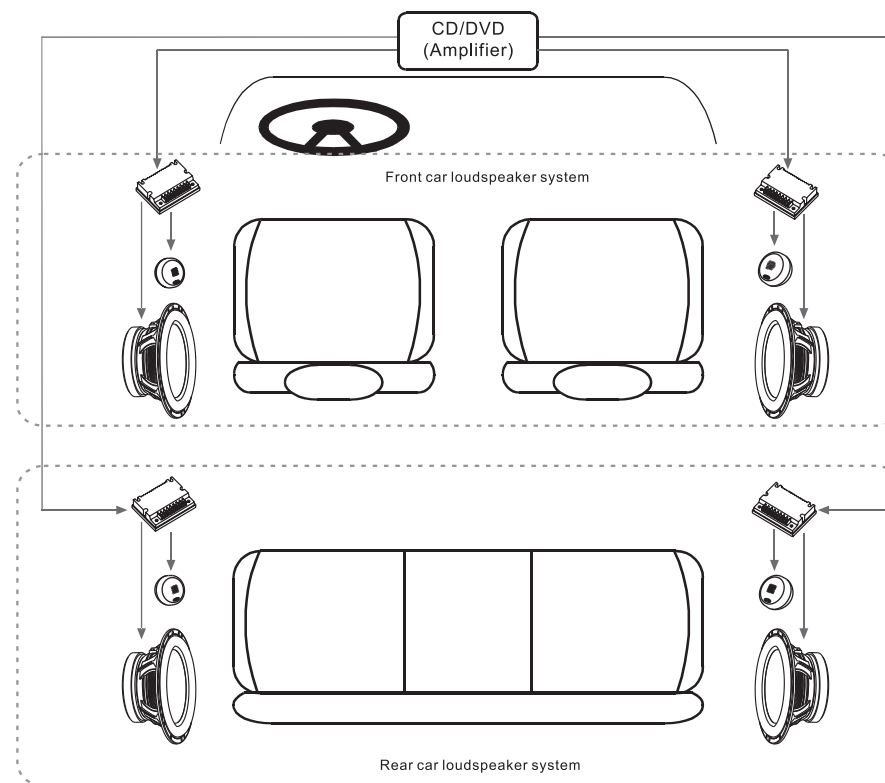
4、调整喇叭的方向, 以便达到理想的听音效果。

注: 此种方式需在车上锁螺钉, 故在安装前须确定高音喇叭的安装位置。



Circuit diagram

Please connect according to the following circuit diagram



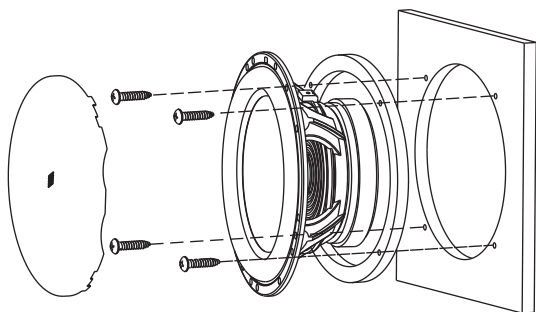


Installation

The installation of woofer:

1. The car window should be fully rolled down before installation. Put the woofer into the mounting hole and make sure the car window can roll up and down normally. Add a gasket to the driver before installing if required.

2. Bore the four driver mounting holes using a 3.5mm drill bit in the selected position according to the mould. If the customary mounting hole is ok just leave it alone. Screw woofer with gasket into mounting holes on the door, and make sure the mounting place is sealed and won't leak air. This factor is important to the woofers sound reproduction.



Notice:

1. For the sake of satisfying more customers we supply a decorative grille for each woofer, they are however not required in most cases.

2. The internal space of most car doors is very small, the woofer however needs as much space as possible.

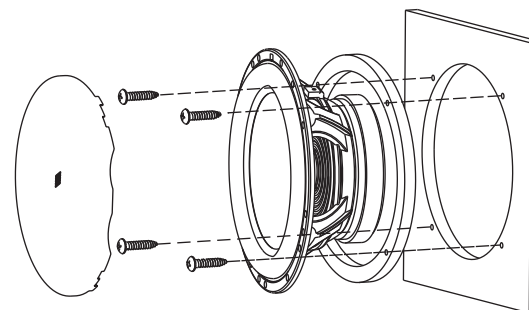


二、安装

低音喇叭安装:

1、将车窗玻璃放到最低，将低音单元放入喇叭安装孔内，确认不会影响车窗的上下，如有影响，安装单元时需要增加我们配套的垫圈。

2、将低音单元放到您需要安装的位置，确定好需要上螺丝的位置并做好标记，然后用3.5mm的钻头钻4个安装孔。对于原车安装孔合适的这一步可以省略。然后将喇叭和垫圈一起用螺丝上到车门上，注意一定要确保不会漏气，因为这对低音的重放的影响是至关重要的。



注:

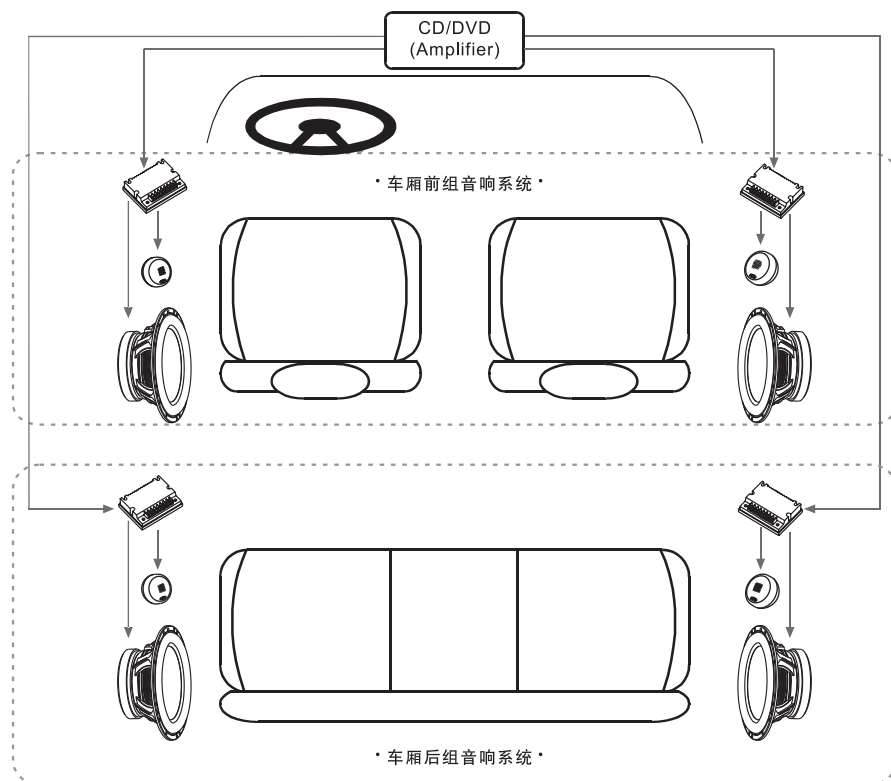
1、为了适合更多的用户，我们为每个低音配备了一个防护网罩，对于绝大多数目前主流车型来讲，这是不需要的，请注意！

2、车门的可用空间是很小的，但是好的低音又需要更多的空间，所以在安装时一定要注意尽可能多的利用车门的空間。



一、线路图

请按照以下线路图连接



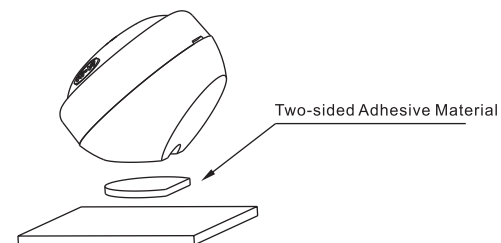
The installation of BT28

Installation Method:

Use the following installation method if you do not make any changes to the cars original interior panels, install tweeter in the front of instrument panel, or on the side of car door.

1. Using semicircular two-sided adhesive material, remove the protective paper from one side of the adhesive surface then stick it to the installing position of tweeter. (See figure)
2. Remove the protective paper from the other side of the adhesive material then stick the driver onto it in the selected position.
3. Adjust the direction of drivers so that the acoustic performance is optimal.

Note: The advantage of this kind of installation is that there is no modification required to the cars original interior. The disadvantage is the driver is not mounted as firmly as if it was mounted directly into the interior.

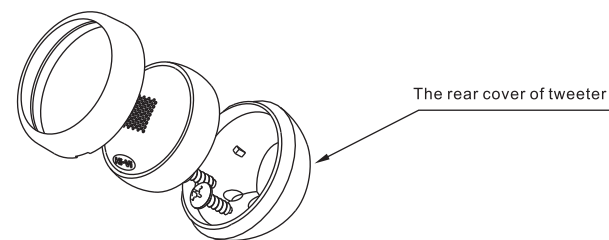


The second installation method:

Use the following installation method if you want to install tweeter into your cars front dash or on the side of car door.

1. First, unscrew the front face of the tweeter.
2. Fasten screws through front mounting plate and rear cover as shown in the figure below to fix the rear cover of the tweeter to the selected position.
3. Mount driver into the rear cover and press the front grill tightly in.
4. Adjust the position of each driver so for optimal acoustic performance.

Note: While using this installation method, screws are needed to be put into your cars interior, so be sure of the drivers positioning before mounting.



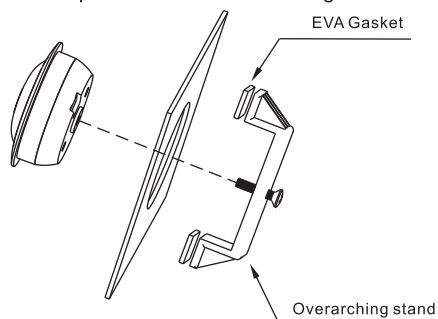


The third installation method:

Use the following installation method if you wish to install the tweeter into the car door or any other permanent position.

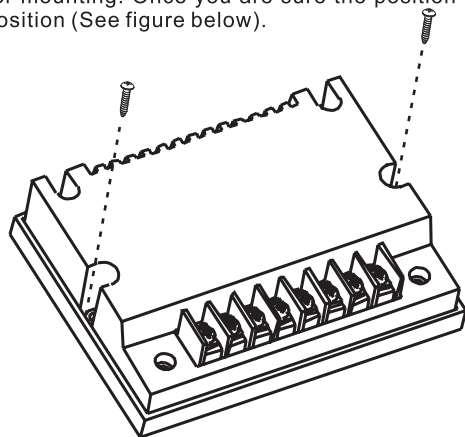
1. Cut a round hole (50mm) at the selected position.
2. Swap the faceplate on the tweeter to the wide front faceplate used for flush mounting, the tweeter should then be able to sink into the cut hole.
3. At the back of mounting plate, put screws through the vaulted mounting shelf of tweeter to fix drivers stably.
4. If the mounting plate is relatively thinner, you can stick a gasket (3mm) to the foot of mounting shelf.

Notice: This method requires cutting holes in your cars interior, so be sure to confirm the installation position before mounting.



Installation of crossover

1. Please make sure to check that the crossover will properly fit in the place you have selected for mounting. Once you are sure the position is ideal screw then crossover into position (See figure below).



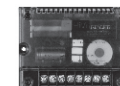
Hi-end Car Loudspeaker System 惠威车用扬声器系统

M系列 M Series

M1500II



M1600II





介绍

在国际发烧音响界，稍有资历的发烧友对惠威的音箱一定不会陌生，对其中所采用的球顶高音及M系列中低音扬声器也一定会印象深刻。无论是她们的声场定位、人声表现还是音乐的细腻程度等等都会深有感触。

总结多年来汽车音响市场的反馈，综合惠威在音乐还原领域的资深技术，我们推出了全新第二代的M系列专业车用分体式扬声器系统，共有2个型号：M1500II、M1600II。秉承惠威专业扬声器系统一贯坚持的Hi-End理念，不但是在声场还原、声音的准确、音色的柔和细腻等方面有着不同寻常的诠释，更重要的是充分考虑了车用音响在安装替换、使用维护以及特殊环境音乐还原等方面的因素，最大程度的体现惠威坚定不移的人性化设计。

该系列采用优化设计的M系列中低音单元，根据车门结构及用容积的实际情况，采用航空铝镁合金，重新调整振盆的材料配方，改善整体的比弹性率，声音清晰流畅。最优化高性能磁路配合低失真设计，中频表现细腻自然，低音效果强劲，动态凌厉。

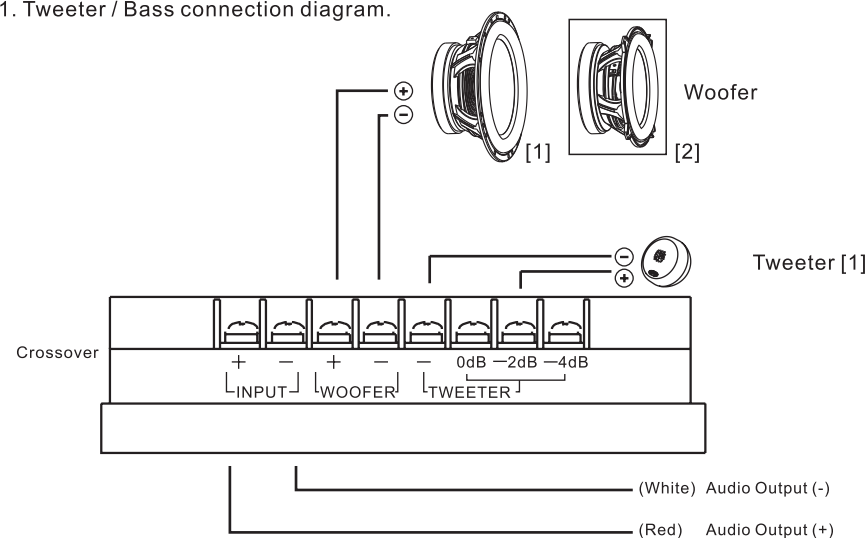
多年前，惠威推出过一款顶级的28MM环顶高音--Q1，她那优美的旋律相信还使许多人记忆犹新、久久回味，与M1500II、M1600II配合的正是这款高音的车用版--BT28，这片来自德国的振膜曾经迷倒万千众生，经过多年的改良与优化，她的声音更加迷人，通透流利，清晰自然，瞬态、动态、失真无一不登封造极，配合航天级液磁冷却，功率承载大大提高，使用的频域更加宽广，解决许多普通车用音响没有办法解决的声场定位、人声过低的问题。

在分音器的设计上揉和了Hi-End的理念及多年来我们对车用音响特殊环境音场还原及定位的探索与研究。搭配特别定制的扬声器单元，声像定位、结像力、音乐表现都达到一个非常高的层次，而且根据不同车子内饰（皮革或布饰）的不同还提供了准确的高音灵敏度调节，使用更加方便。



2. Connection:

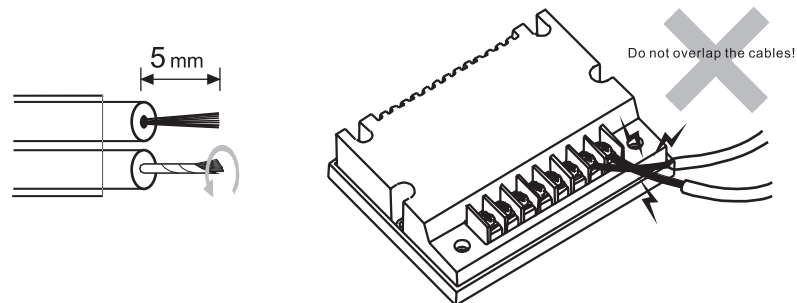
1. Tweeter / Bass connection diagram.



Notice: Three tweeter options of 0dB、-2dB、-4dB for you choose dependant on your cars internal acoustic environment and individual tastes.

Notice

Remove wire insulator bout 5mm not longer (See figure as below), in order to protect circuit, avoid causing a short circuit between the anode (+) and cathode (-) cables of loudspeaker. Rest wire core tightly and do not overlap the cables!





Specification

| Model | M1500Ⅱ | M1600Ⅱ |
|-----------------------------|-------------|-------------|
| Mid/woofer | M5W | M6W |
| Tweeter | BT28 | BT28 |
| Sensitivity | 86dB | 88dB |
| Frequency response | 50Hz-25k | 45Hz-25k |
| Max power | 90W | 100W |
| Power handling | 40W | 50W |
| Rated impedance | 4ohms | 4ohms |
| Mounting size | Φ138 | Φ157 |
| Cut Out size | Φ120 | Φ148.5 |
| Mounting depth | >59 | >66 |
| Grille size | Φ158x22 | Φ172x22 |
| High pass damping frequency | 12dB/Octave | 12dB/Octave |
| Low pass damping frequency | 12dB/Octave | 12dB/Octave |



欢迎进入惠威专业汽车扬声器系统

感谢您选购惠威专业汽车扬声器系统，请务必仔细阅读并清楚了解使用指南及注意事项以确保您能享受到惠威专业汽车扬声器系统一贯坚持的艺术与技术相结合所给您带来的完美表现。

这本手册说明了扬声器系统的安装及使用方法，但是对汽车的拆装并没有说明，假如您没有这方面的经验，请不要自行安装，您可以去有经验的汽车服务处进行咨询。

惠威为之坚持不懈的奋斗目标就是精益求精，在我们的努力下为了不断改善我们的产品，或许有一些规格上的变动我们不能及时做出预先通知，敬请原谅！如果想要了解更多更新的产品信息，请登陆我们的官方网站www.hivi.com作进一步的查询。

请特别注意您的汽车处于熄火状态!

