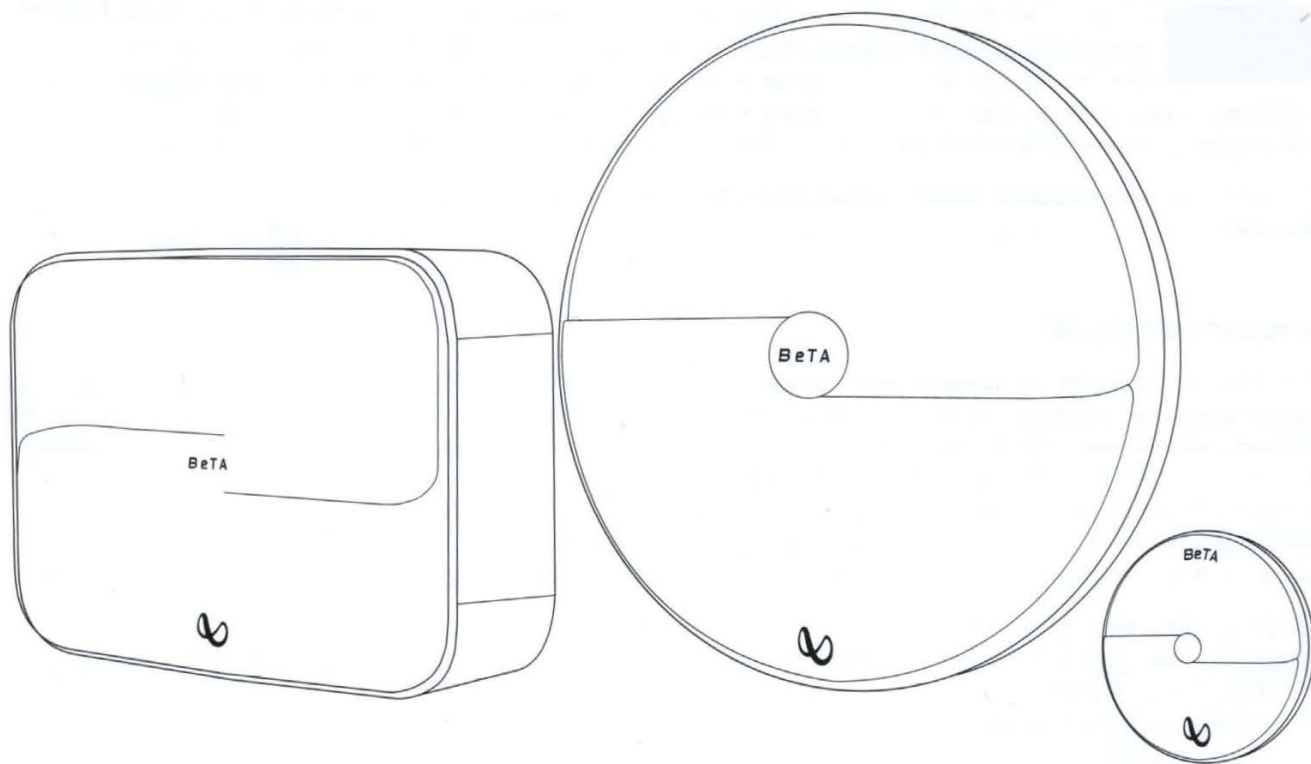




Owner's Manual

EN

Mode d'emploi

FR

Manual del propietario

ES

用户手册

ZH-CN



reddot winner 2021

Congratulations!

BETA BE621 CRAFTED OF THE FINEST MATERIALS ON EARTH!

INFINITY CUTTING EDGE MATERIALS FOR HIGHEST PERFORMANCE SOUND



Thank you for choosing the Infinity BeTA Be621 component system. To get the best performance from your new speakers, it is strongly recommended that you have a qualified professional install them.

Although this manual provides general instructions about installing the speakers, it does not include exact installation methods for any particular vehicle. If you do not feel that you have the necessary experience, do not attempt the installation yourself, but instead ask your authorized Infinity dealer about professional installation options.

Remember to keep your sales receipt in a safe place, along with this manual, so that both are available for future reference.

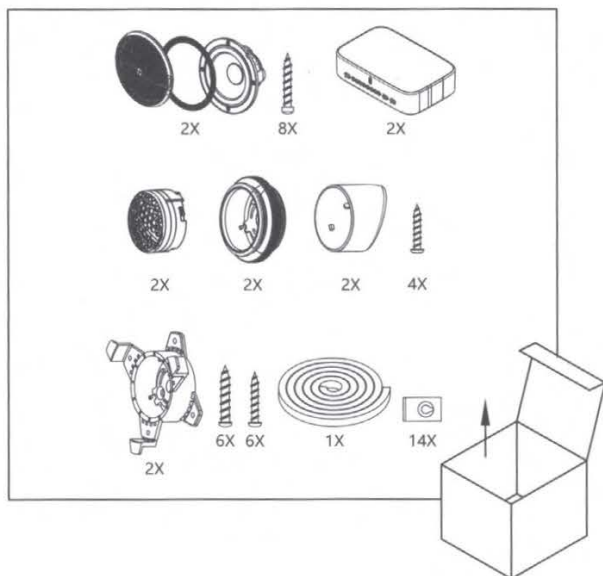
PRODUCT OVERVIEW

The Infinity BeTA Be621 component speaker system is the recipient of the 2021 CES Innovation Award. It leverages Infinity's decades-long expertise and uses advanced materials to deliver a near perfect audio performance. The 6-1/2" supreme woofer uses a carbon fiber cone to deliver incredibly accurate and tactile bass response. The beryllium tweeter brings the smoothness accuracy and extended response to your music, with a clarity unrivaled at this price point. Infinity BeTA crossovers are engineered to integrate the woofer and tweeter perfectly for an incredible stereo image and amazingly deep soundstage. Three levels of tweeter control let you dial in the sound to your car's environment. The attractive magnetic grilles and innovative mounting rings allow for seamless, elegant installation with no visible fasteners.

Beryllium - Element 4 on the Periodic Table - is a rare earth metal renowned for its remarkable physical properties that make it the ideal material for a high-frequency transducer. Compared to aluminum and titanium tweeter diaphragms, Beryllium offers 4.5 times the stiffness and three times more damping, at only half of the weight. Beryllium tweeters are the centerpiece of the BeTA automotive loudspeaker series.

This product has been given the Hi-Resolution certification on high-frequency bands, capable of reproducing 40 kHz or above. This is driven by the 25mm (1-inch) beryllium dome and a powerful neodymium motor for the ultimate in lightweight performance. The powerful all-new tweeter and 6th-generation ceramic-coated, cast-aluminum acoustic lens waveguide seamlessly integrate with the directivity of the companion midrange drivers resulting unparalleled efficiency, improved dynamic range, reduced distortion, and increased power handling.

WHAT'S IN THE BOX



Infinity BeTA Be621 Installation

Installing the Beryllium dome tweeters

It is important to choose a mounting location and tweeter orientation high on the door panel or A-pillar that provides optimum disbursement of the high frequencies for excellent stereo imaging and soundstaging. Recommendations include:

- Using your vehicle's factory tweeter locations, if it has them and the tweeters will fit in those locations.
- Mounting the tweeters at the top of the door panels or A-pillars.

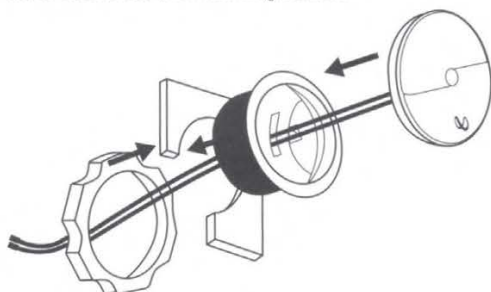
The system includes three options for installing the tweeters:

- Flush-mount cups
- Surface-mount cups
- Stealth-mount brackets

Flush-mounting the tweeters

Flush-mounting is ideal for installing the tweeters in an A-pillar, dash corner, or door panel.

- Cut a hole 1.9 inches in diameter in the mounting surface.
- Push the flush-mount into the hole as far as it will go so that the rim is flush with the mounting surface.

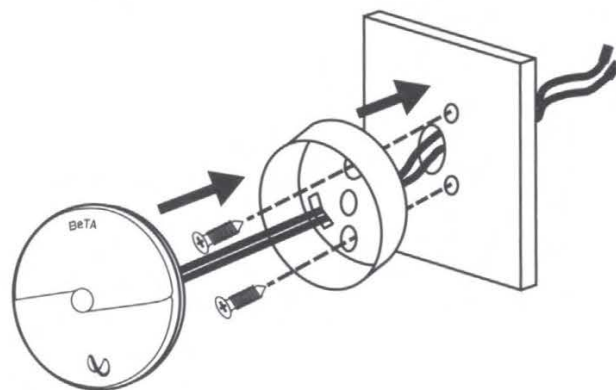


- Thread the tweeter wire through the center of the mounting cup.
- Insert the tweeter into the cup, then twist clockwise to lock it in place.
- Thread the pressure-fit nut onto the back of the flush-mount cup. Twist clockwise to hand-tighten.

Surface-mounting the tweeters

Surface-mounting is ideal for installing the tweeters on a sail panel, dash corner, or door panel.

- Place the surface-mount cup against the mounting location to mark the screw holes and hole to thread the tweeter wire through.
- Drill pilot holes for the screws and larger hole for the wire.
- Place the surface-mounting cup against the mounting location again and secure in place with the included screws. Thread the wire through the bottom of the mounting cup and through the larger drilled hole.
- Push the tweeter into the mounting cup and twist clockwise to lock in place.

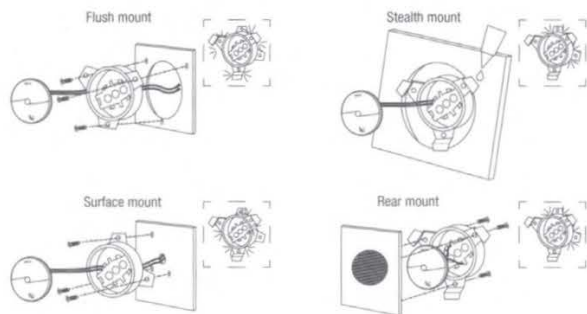


Stealth-mounting the tweeters

The stealth-mount bracket can be used to install the tweeters in a variety of locations, including factory tweeter locations and custom mounts that you fabricate.

- The stealth mount can be flush-mounted, recess-mounted, surface-mounted, or mounted to the back of a mounting surface with the included screws.
- Once you have determined mounting location and method, remove tabs from the bracket that you will not use to secure it in place.
- Once the mount is in place and secured with screws or adhesive, thread the tweeter wires through the bottom of the mount.
- Push the tweeter into the cup and twist it clockwise to lock in place.

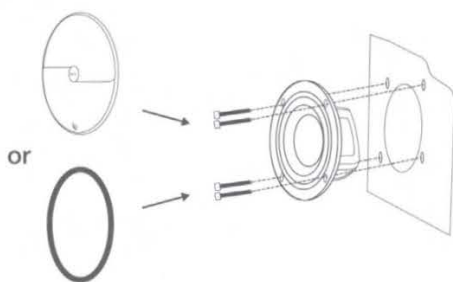
NOTE: if attaching to the back of a mounting surface, place the tweeter in the mount and lock in place before securing the bracket to the surface.



Installing the 6.5" woofers

The woofers are usually mounted in your vehicle's factory woofer locations, which are typically in the doors (front) or side panels (rear). If you choose to mount them in a custom location, mounting them higher will raise the soundstage, while mounting them lower in the doors will provide excellent bass response.

To mount the woofer to the mounting location, place the driver against the mounting surface and use the supplied screws to secure.



TIPS:

- It is recommended to use the included insulating material between the mounting surface and the mounting ring of the woofer to absorb vibrations and help produce the cleanest sound possible.
- Use the included speed clips behind the mounting surface to provide a way to secure the screws, if necessary.
- Take care not to overtighten the screws, to prevent damage.
- If mounting in the door panel, make sure the magnet protrusion does not interfere with window or door latch operation.
- In a custom location, if the woofer is visible, use the included decoration ring and grille to cover the screws and protect the speaker cone.
- If mounting in a custom enclosure that you manufacture, recommend that the sealed volume of the enclosure is more than 0.7 cubic feet (>20L).

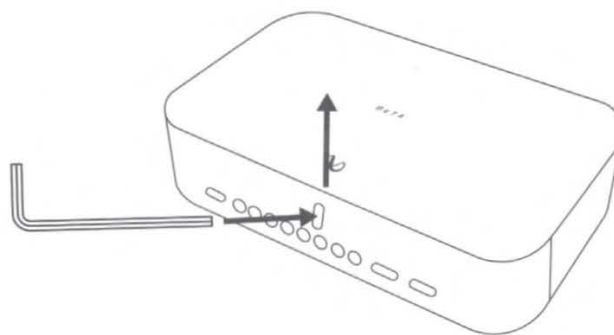
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WIRING THE INIFINITY BeTA Be621 SPEAKERS

All connections from the amplifier and to the speakers are made through the included crossovers.

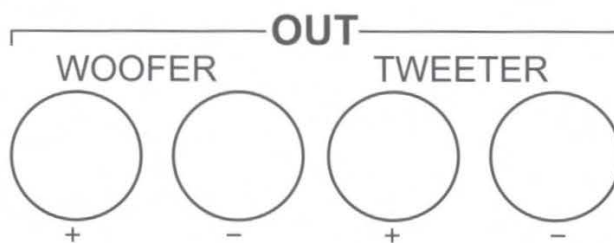
Accessing the terminals in the crossovers

Slide the Allen wrench into the hole in the front panel of the crossover, then gently pry up the cover of the crossover. Remove cover.



Connecting the speakers to the crossover

- Use the Allen wrench to open the terminals by turning the setscrews counterclockwise.
- Insert the tweeter wires into the "OUT" terminals marked "TWEETER", and the woofer wires into the terminals marked "WOOFER".

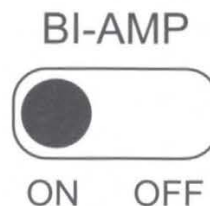


- Secure the connections by using the Allen wrench to tighten the setscrews by turning them clockwise.

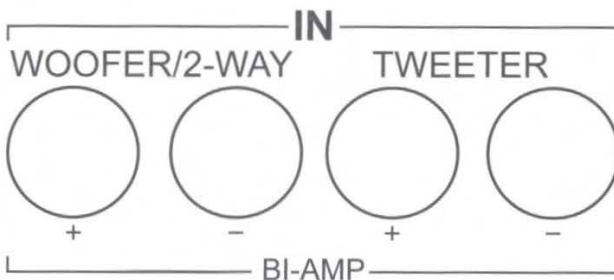
Connecting the amplifier to the crossover: bi-amping

The Infinity BeTA Be621 crossover lets you bi-amp the system (powering the tweeters independently of the woofers). To bi-amp:

- Slide the "BI-AMP" switch to "on".



- Connect a single amplifier output channel with speaker wire to each crossover "IN" terminal (use the terminals marked "WOOFER/2-WAY" for the woofers, and "TWEETER" for the tweeters).



- Use the included Allen wrench to tighten and secure.

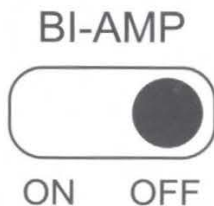
NOTES:

- Use appropriately sized speaker wire; 14- or 16-gauge is recommended.
- Make sure your amplifier's RMS power rating is suitable for the tweeters and woofers (see specifications).
- You will need to use a total of four channels of amplification from two 2-channel amplifiers or one 4-channel amplifier.

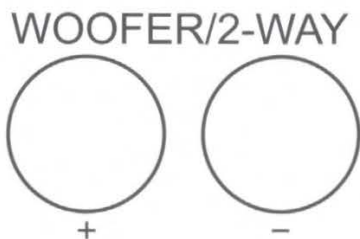
IMPORTANT: Because of the lower impedance of the drivers, do not wire in parallel or bridge amplifier channels to prevent overheating the amplifier.

Connecting the amplifier to the crossover: non-bi-amping

- Slide "BI-AMP" switch to "off"



- Connect a single amplifier output channel with speaker wire to the crossover "IN" terminal marked WOOFER/2-WAY on each of the crossovers.



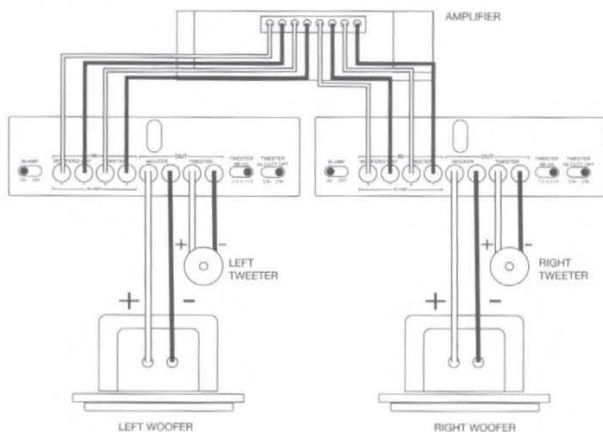
NOTES:

- Use appropriately sized speaker wire; 14- or 16-gauge is recommended.
- Make sure your amplifier's RMS power rating is suitable for the woofers (see specifications).
- You will only need to use two channels of amplification.

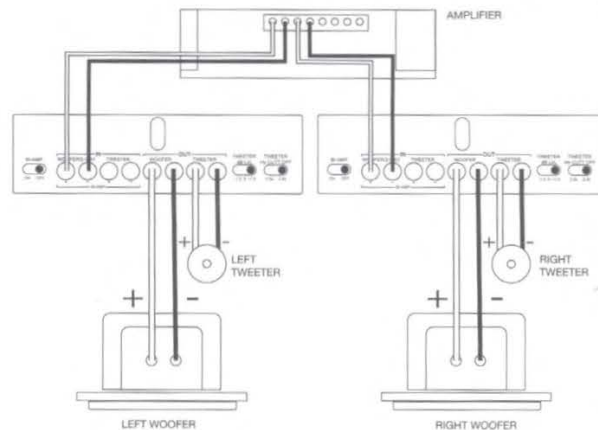
IMPORTANT: Because of the lower impedance of the drivers, do not wire in parallel or bridge amplifier channels to prevent overheating of the amplifier.

Recommended wiring diagrams

Bi-amping



Non-bi-amping



Crossover sound settings

You can set the crossovers according to your sound preferences.

- You can raise or lower the woofer output by sliding the "TWEETER DB LVL" switch to -1.5dB, 0dB, or +1.5dB.



- You can use the "TWEETER HZ CUTT OFF" switch to choose to have the tweeter play frequencies from either 2.5kHz and above or 3.5kHz and above.

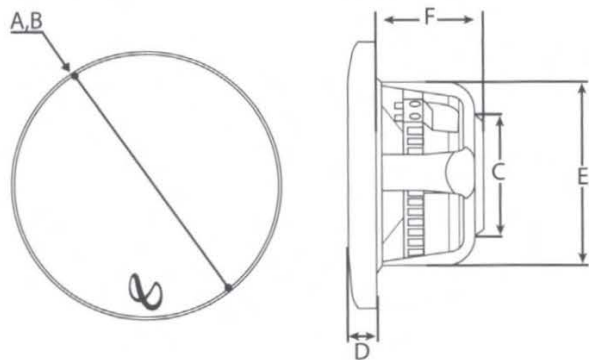


Mounting the crossovers

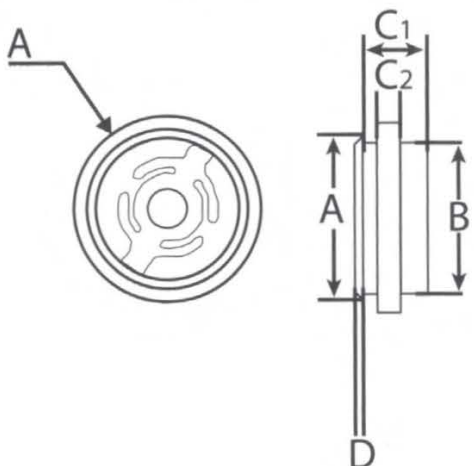
Find a location in your vehicle to secure the crossovers that will not interfere with vehicle operation. If mounting in a door panel, it is recommended that you use self-adhesive strips of hook-and-loop fasteners.

Dimensions

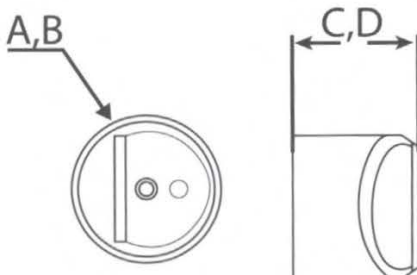
Woofers Physical Dimensions	
Frame Outer Diameter (A)	6-15/16 in / 176 mm
Grille Tray Outer Diameter (B)	6-15/16 in / 176 mm
Magnet Outer Diameter (C)	3-1/4 in / 82.2 mm
Frontal Grille Protrusion (D)	29/32 in / 22.8 mm
Mounting Hole Diameter (E)	5-5/16 in / 135 mm
Mounting Depth (F)	2-13/16 in / 72 mm



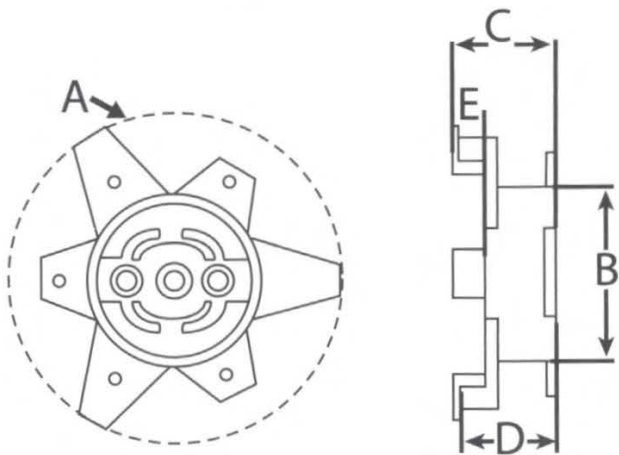
Tweeter Flush-Mount Cup Dimensions	
Fixture Outer Diameter (A)	1-15/16 in / 49.00 mm
Fixture Mounting Hole Diameter (B)	1-13/16 in / 46.00 mm
Fixture Mounting Depth (C ₁)	3/4 in / 19.5 mm
Tweeter Frontal Protrusion (D)	1/16 in / 2.00mm
Tweeter Flush Mount Nut Fixture Physical Dimensions	
Fixture Outer Diameter (A)	2-1/4 in / 57 mm
Fixture Mounting Hole Diameter (B)	1-25/32 in./ 45.44 mm
Fixture Mounting Depth (C ₂)	5/16 in./ 7.5 mm



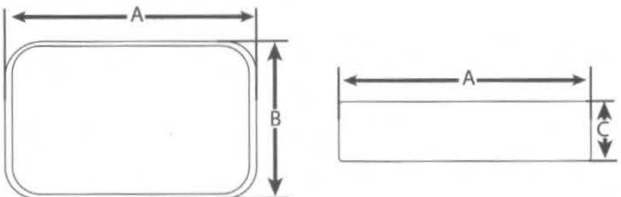
Tweeter Surface-Mount Cup Dimensions	
Fixture Outer Diameter (A)	1-3/4 in / 44.3 mm
Fixture Mounting Hole Diameter (B)	1-3/4 in / 44.3 mm
Fixture Mounting Depth (C)	1-7/16 in / 36.7 mm
Tweeter Frontal Protrusion (D)	1-7/16 in / 36.7 mm



Tweeter Stealth-Mount Bracket Dimensions	
Fixture Outer Diameter (A)	3-1/2 in / 90.5 mm
Fixture Mounting Hole Diameter (B)	1-7/8 in / 47.5 mm
Fixture Mounting Depth (C)	1-1/8 in / 28.00 mm
Tweeter Frontal Protrusion (D)	1-1/32 in / 26.3 mm
Tweeter Frontal Protrusion (E)	3/8 in / 9.5 mm



Crossover Dimensions	
Height (A)	6-3/4 in / 172 mm
Width (B)	4-5/8 in / 119mm
Depth (C)	2 in / 50.6mm



Specifications

	BeTA Be621 1" Tweeter	BeTA Be621 6.5" woofer
Dome / Cone material	Beryllium dome	Coated Carbon Fiber
Wave guide / Grille	Aluminum Die-casting	SPCC
Basket material	Aluminum Die-casting	Aluminum Die-casting
Power Handling	50Wrms	100Wrms
Frequency Response	1KHz – 40kHz	60Hz – 6kHz
Sensitivity (2.83V/1m)	95dB	91dB
Impedance	4 ohm	4 ohm
Fs	1.5 KHz	60Hz
Vas	-	8L
Mounting depth / cutout	37mm / 70mm	70mm / 140mm

NOTES OF CAUTION

- Because of the nature of Beryllium, do not touch the tweeter domes with your finger or any other body part.
- Do not expose the Beryllium tweeters to open flame, to avoid the possibility of poisoning by inhalation.
- We have meticulously chosen certain glues for their adhesive and more importantly their acoustic properties. Over time some reddening can occur to the glue edge at the dust cap, depending on your environment.

哈曼产品保修卡



机身编号

产品型号: _____

销售(安装调试)日期: 20__年__月__日

发票号码: _____ (销售者印章)

用户姓名: _____

联系电话: _____

地址(邮编): _____

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哈曼(中国)投资有限公司

公司地址: 上海市黄浦区南京西路288号3004室

中国大陆地区客服热线: 400 630 6678



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部件名称	目标部件	有害物质或元素					
		铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
喇叭	盆架, 磁铁, 音盆, 音圈, 连接线, 金属件等	X	0	0	0	0	0
分频器	印刷电路板, 电路板上的电子零件, 内部相关连接线, 开关, 玻璃, 塑料等	0	0	0	0	0	0
附件	说明书, 螺丝包, 包装等	0	0	0	0	0	0

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O: 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。



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