marine

OWNER'S MANUAL

Comp - Coax - Sub

HERTZ

The Sound Experience

hertz-audio.com

Oversættelse / **Danish**

Tillykke med købet af vores produkt. Din tilfredshed med vores produkter er vores højeste prioritet; den tilfredshed, der opleves af dem, der søger efter at opleve følelsen af god lyd i bilen. Denne manual forsyner dig med hovedinstruktionerne til at installere og anvende systemet korrekt. Der er dog flere mulige måder at anvende systemet; for mere information, kan du altid kontakte en pålidelig sælger eller vores tekniske support på support@elettromedia.it. Før installationen påbegyndes bedes du læse vejledningen grundigt igennem, da der ellers risikeres uforsætlig skade på produktet.

1. Alle dele skal være sikkert fastspændt til køretøjet/fartøjet. Det samme gør sig gældende for alle andre installationer du kan have bygget. Sørg altid for at dine installationer er sikkert og anvendeligt fast. En del, der løsnes under kørsel, kan være til skade for passagerer såvel som andre køretøjer/fartøjer.
2. Benyt altid beskyttelsesbriller under anvendelse af værktøj, da splinter eller restprodukter kan blive luftbårne.
3. For at undgå skader på produktet, opbevar da altid delene i den originale emballage, indtil de skal installeres.
4. Under ingen omstændigheder bør der udføres installationer i motorrummet.
5. Før påbegyndelse af installationen, sluk da hovedenheden og alle andre lydsystemer, for at undgå skader.
6. Sørg for, at den lokation, du vælger at udføre installationen, ikke forstyrrer den normale drift af mekaniske eller elektriske apparater i køretøjet/fartøjet.
7. Placer ikke højtalere hvor de kan udsættes for vand, høj luftfugtighed, støv eller skidt.
8. Installer ikke tweetere uden beskyttelsesgitteret.
9. Installer ikke komponenter eller kabler i nærheden af køretøjets/fartøjets elektroniske eller mekaniske enheder.
10. Vær meget forsigtig, når du borer eller skærer ind i køretøjets/fartøjets chassis; sørg for at der ikke er ledninger eller strukturelle elementer vigtige for køretøjets/fartøjets funktion under eller i det valgte område.
11. Når der lægges kabler, sørg da altid for, at disse ikke kommer i nærheden af skarpe kanter eller bevægelige dele. Sørg for, at alle kabler er fastgjort og beskyttet i hele deres længde og at isoleringen er selvslukkende.
12. Brug kun kabler med den korrekte markering (AWG), som er angivet her.
13. Når der trækkes kabler gennem huller i køretøjets/fartøjets chassis, sørg da altid for at beskytte kablet med en gummiring. Sørg for udførlig beskyttelse af kabler, der lægges i nærheden af varmegenererende komponenter.
14. Placer ingen ledninger på køretøjets/fartøjets yderside.
15. Anvend kabler og dele af god kvalitet, som dem, der kan findes i Connection-kataloget.
16. Garantibevis: for mere information besøg da Hertz's hjemmeside.

Oplysninger om affald fra elektrisk og elektronisk udstyr (for de europæiske lande, der organiserer den separate indsamling af affald). Produkter mærket med en skraldespand på hjul med et X hen over må ikke bortskaffes sammen med det almindelige husholdningsaffald. Disse elementer skal afleveres på en genbrugsstation. For at vide hvor din lokale genbrugsstation modtager disse elementer, kontakt da enten kommunen eller genbrugsstationen selv. Sortering og korrekt bortskaffelse bidrager til beskyttelsen af miljøet og forhindrer skadelige virkninger på sundheden.

Nederlands / **Dutch**

Gefeliciteerd met uw aankoop van ons product. Uw tevredenheid is de eerste eis waar onze producten aan moeten voldoen; evenals de tevredenheid van diegene die naar de "De Geluid Ervaring" in de auto verlangen. Deze handleiding is opgesteld om de belangrijkste instructies te volgen die nodig zijn voor het installeren van het systeem zodat deze optimaal gebruikt kan worden. Echter, het bereik van mogelijke toepassingen is breed; voor verdere informatie, wees zo vrij om contact op te nemen met uw vertrouwde leverancier of onze technische ondersteuning op de e-support@elettromedia.it. Lees voorde installatie van de componenten de instructies in deze handleiding zorgvuldig door. Niet-naleving van deze instructies kan tot onbedoelde letsel of schade aan het product veroorzaken.

1. Alle onderdelen moeten stevig aan de constructie van het voertuig worden bevestigd. Doe hetzelfde bij het installeren van aangepaste structuren die u hebt gebouwd. Controleer of uw installatie stevig en veilig is. Componenten die tijdens het rijden losraken, kunnen ernstige letsel aan de passagiers veroorzaken, maar kunnen ook ernstige schade aan andere voertuigen veroorzaken.
2. Draag altijd beschermende brillen wanneer u gebruikmaakt van gereedschappen zodat splinters en andere productresten niet in uw ogen kunnen komen.
3. Om incidentele schade te voorkomen, laat het product in de originele verpakking totdat u klaar bent voor de uiteindelijke installatie.
4. Voer geen installatie in de motorruimte uit.
5. Voordat u met de installatie begint, zet de hoofdeenheid en andere audio systeemapparaten uit, om mogelijke schade te voorkomen.
6. Zorg ervoor dat de locatie die u voor het installeren van de componenten wilt gebruiken niet de normale werking van mechanische of elektrische apparaten van het voertuig stoort.
7. Installeer geen luidsprekers waar zij aan grote hoeveelheden water, vochtigheid, stof, vuil of onderdompeling blootgesteld kunnen worden.
8. Installeer de tweeter niet zonder het beschermende rooster.
9. Installeer geen kabels of componenten in de buurt van elektronische of mechanische voorzieningen van het voertuig.
10. Wees zeer voorzichtig bij het boren of snijden in het chassis en controleer of er onder of in het geselecteerde gebied geen kabels of structurele elementen voorkomen, die essentieel zijn voor de werking van het voertuig.
11. Zorg bij het leggen van de kabels ervoor dat de kabels niet met scherpe randen in contact komen of in de buurt van bewegende mechanische apparaten komen te liggen. Zorg ervoor dat ze goed vastzitten en met zelfdovende isolatie over de gehele lengte beschermd zijn.
12. Gebruik alleen kabels met de juiste diameter (AWG) zoals hierin aangegeven.
13. Wanneer de kabel door een gat in het chassis van het voertuig worden doorgevoerd, bescherm deze kabel dan met een rubberring (pakkingring). Zorg voor passende bescherming voor kabels die dicht bij warmte genererende apparaten lopen.
14. Laat geen draden aan de buitenkant van het voertuig lopen.
15. Gebruik hoogwaardige kwaliteitskabels, connectoren en accessoires, die u in de verbindingcatalogus kunt vinden.
16. Garantiecertificaat: voor meer informatie bezoek de website van Hertz.

Informatie met betrekking tot de verwerking van afgedankte elektrische en elektronische apparatuur (voor de Europese landen die het afval gescheiden inzamelen). Producten die zijn gemarkeerd met een doorgekruiste vuilnisbak op wieltjes mogen niet met het gewone huisvuil worden weggegooid. Deze elektrische en elektronische producten dienen te worden gerecycled door geschikte faciliteiten, die in staat zijn om deze producten en componenten te verwerken. Om te weten te komen hoe en waar deze producten ingeleverd kunnen worden bij het dichtstbijzijnde recycling/inzamelingspunt, verzoeken wij u om contact op te nemen met uw lokale gemeente. Het op correcte wijze recyclen en inzamelen van afval draagt bij aan de bescherming van het milieu en het voorkomen van schadelijke effecten op de gezondheid.

English / **English**

Congratulations on purchasing our product. Your satisfaction is the first requirement that our products must meet; the same satisfaction as the one gained by those who long for "The Sound Experience". This manual has been drawn to provide the main instructions required to install and use the system properly. However, the range of possible applications is wide; for further information, please feel free to contact your trusted dealer or our technical support at the email support@elettromedia.it Before installing the components, please carefully read all of the instructions contained in this manual. Failure to respect these instructions may cause unintentional harm or damage to the product.

1. All components must be firmly secured to the vehicle/vessel structure. Do the same when installing any custom structures you may have built. Confirm your installation is solid and safe. A component coming loose while driving may cause serious damage to the passengers, as well as to other vehicles/vessels.
2. Always wear protective eyewear when using tools, as splints or product residue may become airborne.
3. In order to avoid incidental damage, keep the product in the original packaging until you are ready for the final installation.
4. Do not carry out any installation inside the engine compartment.
5. Before starting with the installation turn the head unit and all other audio system devices off, avoiding any possible damage.
6. Make sure that the location you choose to install the components does not interfere with the normal operation of any mechanical or electrical devices of the vehicle/vessel.
7. Do not install loudspeakers where they may be exposed to excessive water, humidity, dust, dirt or immersion.
8. Do not install the tweeter without the protective grille.
9. Do not install the components or make cable run close to electronic or mechanical devices of the vehicle/vessel.
10. Be very cautious when drilling or cutting into the vehicle/vessel chassis, making sure there are no cables or structural elements essential to the vehicle/vessel underneath or in the selected area.
11. When routing cables, make sure that the cable does not come in contact with sharp edges or near moving mechanical devices. Make sure that it is firmly attached and protected along its entire length and its insulation is self-extinguishing.
12. Only use cables with the proper section (AWG) indicated herein.
13. When running the cable through a hole in the vehicle/vessel chassis, protect the cable with a rubber ring (grommet). Be sure to provide proper protection for cables running close to heat generating devices.
14. Do not run the wires outside of the vehicle/vessel.
15. Use top quality cables, connectors and accessories such as found in the Connection catalogue.
16. Warranty certificate: For more information visit the Hertz website.

Information on electrical and electronic equipment waste (for those European countries which organize the separate collection of waste). Products which are marked with a wheeled bin with an X through it can not be disposed of together with ordinary domestic waste. These electrical and electronic products must be recycled at proper facilities, capable of managing the disposal of these products and components. In order to know where and how to deliver these products to the nearest recycling/disposal site please contact your local municipal office. Recycling and disposing of waste in a proper way contributes to the protection of the environment and to prevent harmful effects on health.

Türkçe / Turkish

Ürünümüzü satın aldığınız için kutlarız. Ürünlerimizin karşılaması gereken ilk koşul sizin mutluluğunuzdur ... "Ses Deneyimini" yaşaması ... Bu kılavuz, sistemin doğru olarak kurulumu ve kullanımı için gereken temel talimatları sağlamak üzere hazırlanmıştır. Ancak mümkün olan uygulama şekilleri çok çeşitlidir. Daha fazla bilgi için lütfen yetkili bayinizle veya support@elettromedia.it e-posta adresinden teknik destek servisimizle temas kurmaktan çekinmeyiniz. Bileşenleri kurmadan önce lütfen bu kılavuzdaki tüm talimatları dikkatle okuyunuz. Bu talimatların gözardı edilmesi ürüne istemeden zarar veya hasar verilmesine neden olabilir.

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12. [illegible]
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15. [illegible]
16. [illegible]

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WARNING

Water Resistance
These speakers are designed to be water and spray resistant, but they are not designed to be submerged or to withstand high-pressure water spray. Please exercise care when washing your boat to avoid damaging the speakers. Do not install on submersibles, personal watercraft or any other vessel likely to be under water for even a short time.

Installation and Use
When installing speakers in your vessel it is extremely important that the speakers and their supporting structures are firmly secured to avoid causing harm to persons or property in case of collision. Please review the mounting information carefully and use the supplied accessories to mount this product. Unless otherwise specified these products are developed for infinite-baffle applications, which means installed without box. Installing these components in a box or in small enclosures may compromise their low frequency performance.

Tweeter and lighting
The tweeters and lighting circuit (when this is available) are permanently fixed to the grille. Do not use the product without the grille unless otherwise specified. Do not attempt to remove the tweeter and/or the lighting LEDs from the grille. Any damages caused by the attempt to remove the grille and/or tweeter/lighting LEDs will not be covered under warranty.

Tweeter Protection
The crossover is equipped with an electronic tweeter protection circuit designed to minimize the risk of damages to the tweeter. This electronic device monitors the current going to the tweeter and disconnects the tweeter from the signal when it senses an overload. Should this occur while listening to the audio system, simply reduce the volume for a few seconds to reset the protection circuit.

ATTENZIONE

Resistenza all'acqua
Questi altoparlanti sono progettati per resistere a spruzzi d'acqua, mentre non sono progettati per lavorare sommersi o per resistere a spruzzi d'acqua ad alta pressione. Fare attenzione quando si lava la barca per evitare di danneggiare gli altoparlanti. Non installare su sommergibili, moto d'acqua o qualsiasi altra imbarcazione che potrebbe trovarsi sott'acqua anche per qualche istante.

Installazione ed Utilizzo
Quando si installano gli altoparlanti sull'imbarcazione, è estremamente importante che gli altoparlanti e le loro strutture portanti siano fissati saldamente per evitare danni a cose o persone in caso di collisione. Leggere attentamente le istruzioni di montaggio e utilizzare gli accessori di montaggio in dotazione per installare il prodotto.
Se non diversamente specificato i prodotti sono sviluppati per applicazioni aria libera (infinite-baffle) ovvero installati senza una cassa di risonanza. Installarli in una cassa di risonanza o in piccoli spazi chiusi potrebbe comprometterne la prestazione in bassa frequenza.

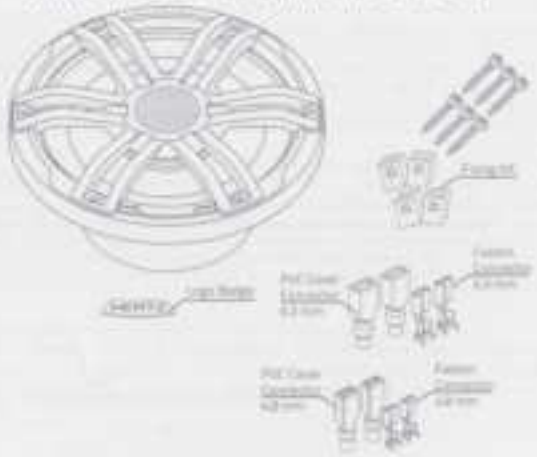
Tweeter ed illuminazione
I tweeter e il circuito di illuminazione (dove presente) sono fissati in modo stabile alla griglia. Non usare il prodotto senza la sua griglia se non diversamente specificato. Non tentare di rimuovere il tweeter e/o il circuito di illuminazione dalla griglia. Eventuali danni causati dal tentativo di rimozione della griglia o del tweeter/circuito illuminazione non sono coperti dalla garanzia.

Protezione tweeter
Il crossover è dotato di un circuito elettronico resettabile per la protezione del tweeter, progettato per minimizzare il rischio di danneggiamento del tweeter. Questo dispositivo elettronico controlla la corrente in ingresso nel tweeter e interrompe l'alimentazione del tweeter se rileva un sovraccarico. Se si verifica l'interruzione durante l'ascolto, abbassare il volume per alcuni secondi per resettare il circuito di protezione.

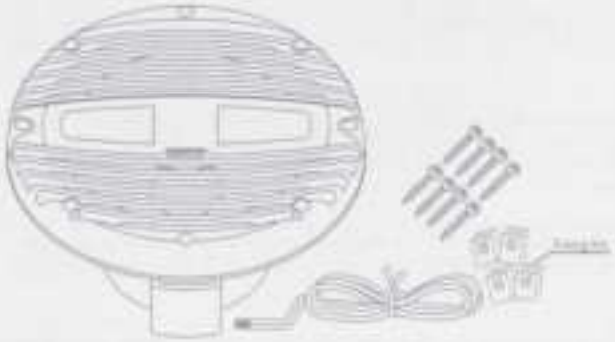
محتويات العبوة / **Съдържание на опаковката** / 包装内容 / **内装物** / Sadržaj pakiranja / **Obsah balení** / Pakkens indhold / **Pakket inhoud** / Packaging contents / **Pakendi sisu** / Pakkauksen sisältö / **Contenu de l'emballage** / Verpackungsinhalt / **Περιεχόμενο συσκευασίας** / תוכן האריזה / **A csomag tartalma** / Isi kemasan / **Contenuto dell'imballo** / パッケージ内容 / 패키지 내용 / Lepakojuma saturs / **Pakuotės turinys** / Innhold / محتويات بسته / Zawartość opakowania / **Conteúdo da embalagem** / Conținutul pachetului / **Комплектация** / Obsah balenia / **Vsebina embalaže** / Contenido del embalaje / **Förpackningens innehåll** / สารบัญของบรรจุภัณฑ์ / **Paket içeriği**

HMX 6.5 / HMX 6.5-C / HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-TC / HMX 6.5-TW / HMX 6.5-LD-TC / HMX 6.5-LD-TW

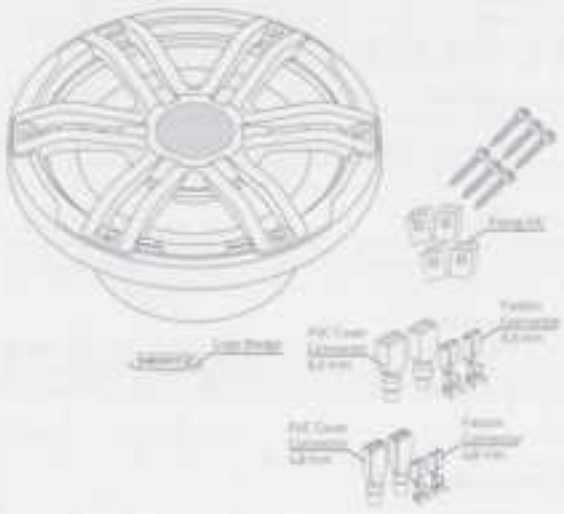
HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW



HMX 8 / HMX 8-C / HMX 8-LD / HMX 8-LD-C / HMX 8-TC / HMX 8-TW / HMX 8-LD-TC / HMX 8-LD-TW

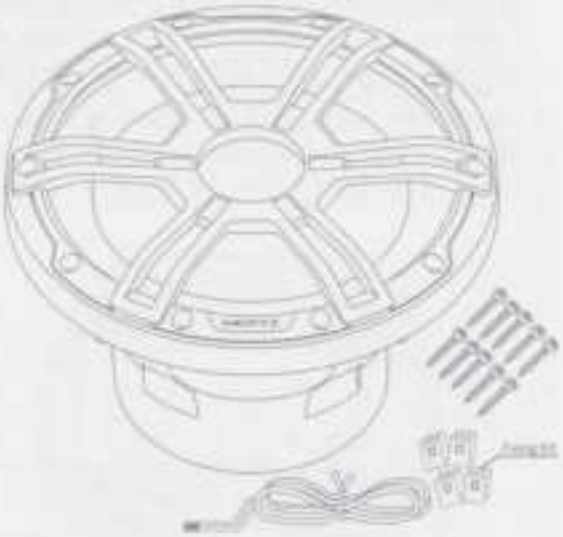


HMX 8 S-LD-G / HMX 8 S-LD-SW



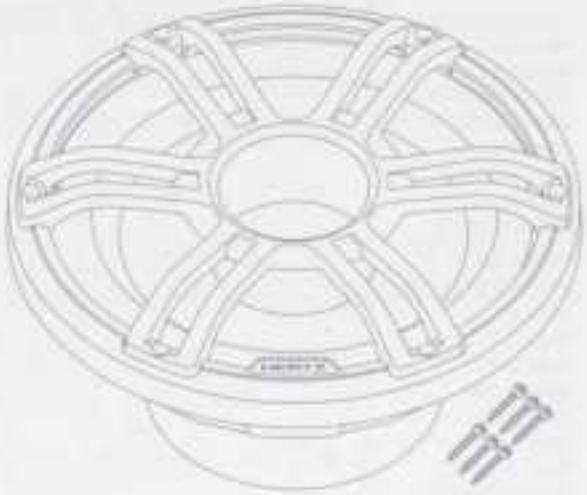
HMS 10 B / HMS 10 B-C / HMS 10 B-C2 / HMS 10 B-2

HMS 10 S-LD-G / HMS 10 S2-LD-G / HMS 10 S2-LD-SW / HMS 10 S4-LD-SW



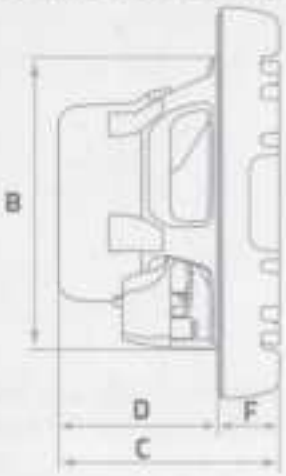
HMS 12 B2-LD-W / HMS 12 B4-LD-W HMS 12 B2-LD-C / HMS 12 B4-LD-C

HMS 12 S2-LD-G / HMS 12 S4-LD-G / HMS 12 S2-LD-SW / HMS 12 S4-LD-SW

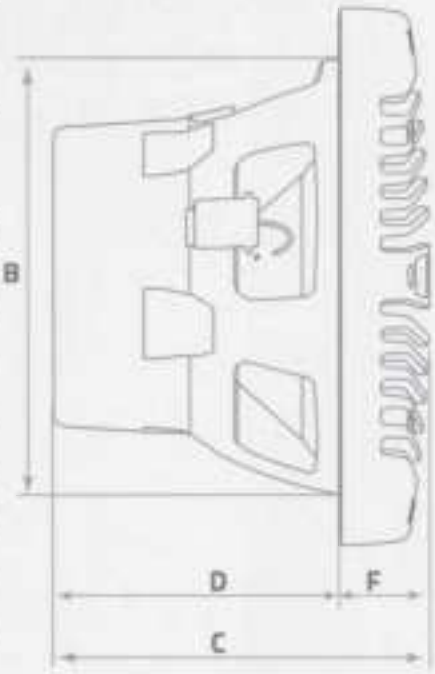


■ الحجم / **Размер** / 尺寸 / **规格** / Veličina / **Velikost** / Størrelse / **Afmetingen** / Size / **Suurus** / Koko / **Dimensions** / Größe / **Διαστάσεις** / سایز / **Méretek** / Ukuran / **Ingombro** / サイズ / 크기 / Izmērs / **Dydis** / Størrelse / **גודל** / Wielkość / **Dimensão** / Dimensiuni / **Размер** / Rozmery / **Velikost** / Tamaño / **Storlek** / שטיח / **Ebat**

HMX 6.5 / HMX 6.5-C / HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-TC / HMX 6.5-TW / HMX 6.5-LD-TC / HMX 6.5-LD-TW / HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW / HMX 8 / HMX 8-C / HMX 8-LD / HMX 8-LD-C / HMX 8-TC / HMX 8-TW / HMX 8-LD-TC / HMX 8-LD-TW / HMX 8 S-LD-G / HMX 8 S-LD-SW / HMS 10 B / HMS 10 B-C / HMS 10 B-C2 / HMS 10 B-2 / HMS 10 S-LD-G / HMS 10 S2-LD-G / HMS 10 S2-LD-SW / HMS 10 S4-LD-SW / HMS 12 B2-LD-W / HMS 12 B4-LD-W / HMS 12 B2-LD-C / HMS 12 B4-LD-C / HMS 12 S4-LD-G / HMS 12 S2-LD-G / HMS 12 S2-LD-SW / HMS 12 S4-LD-SW

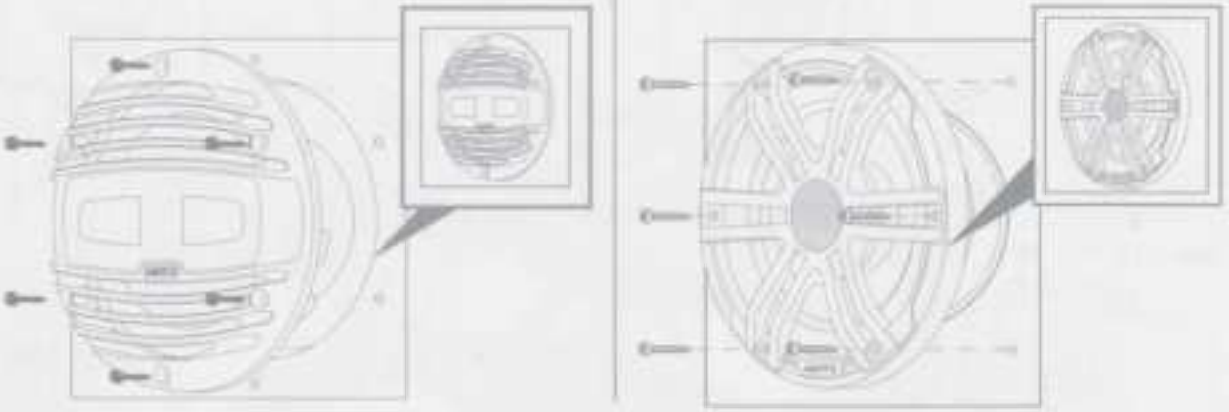


	A	B	C	D	F	U	V	
HMX 6.5 HMX 6.5-C HMX 6.5-TC HMX 6.5-TW	172.2	128	95.6	69	26.6	155	4.5	mm
HMX 6.5-LD HMX 6.5-LD-C HMX 6.5-LD-TC HMX 6.5-LD-TW	6.78	5.04	3.76	2.72	1.05	6.1	0.18	in.
HMX 6.5 S-LD-G	173.6	128	100.1	69	31.2	155	4.5	mm
HMX 6.5 S-LD-SW	6.83	5.4	3.94	2.72	1.23	6.1	0.18	in.
HMX 8 HMX 8-C HMX 8-TC HMX 8-TW	225	180	123	91	32	205	5	mm
HMX 8-LD HMX 8-LD-C HMX 8-LD-TC HMX 8-LD-TW	8.86	7.09	4.84	3.58	1.19	8.07	0.2	in.
HMX 8 S-LD-G	225	180	126.6	91	37.6	205	5	mm
HMX 8 S-LD-SW	8.86	7.09	5.06	3.58	1.48	8.07	0.2	in.
HMS 10 B HMS 10 B-C	277	230	191	145	46	254	5.5	mm
HMS 10 B-C2 HMS 10 B-2	10.91	9.06	7.52	5.71	1.81	10	0.22	in.
HMS 10 S-LD-G HMS 10 S2-LD-G	279	230	186	145	41	254	5.5	mm
HMS 10 S2-LD-SW HMS 10 S4-LD-SW	10.98	9.06	7.32	5.71	1.61	10	0.22	in.
HMS 12 B2-LD-W HMS 12 B4-LD-W	342.9	279.4	190.9	140.6	50.3	314	5.5	mm
HMS 12 B2-LD-C HMS 12 B4-LD-C	13.50	11	7.52	5.54	1.98	12.36	0.22	in.
HMS 12 S2-LD-G HMS 12 S4-LD-G	342.9	279.4	192.8	140.6	52.2	314	5.5	mm
HMS 12 S2-LD-SW HMS 12 S4-LD-SW	13.50	11	7.59	5.54	2.06	12.36	0.22	in.



■ تثبيت / **Монтаж** / 安装 / **安裝** / Montaža / **Montáž** / Montering / **Montage** / Mounting / **Paigaldamine** / Kiinnitys / **Montage** / Montage / **Τοποθέτηση** / הרכבה / **Beszerelés** / Pemasangan / **Montaggio** / マウント / **장착** / Uzstādīšana / **Montavimas** / Montering / **تعبيه** / Montaż / **Montagem** / Montaj / **Монтаж** / Montáž / **Namestitev** / Montaje / **Montering** / การติดตั้ง / **Montaj**

HMX 6.5 / HMX 6.5-C / HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-TC / HMX 6.5-TW / HMX 6.5-LD-TC / HMX 6.5-LD-TW / HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW / HMX 8 / HMX 8-C / HMX 8-LD / HMX 8-LD-C / HMX 8-TC / HMX 8-TW / HMX 8-LD-TC / HMX 8-LD-TW / HMX 8 S-LD-G / HMX 8 S-LD-SW



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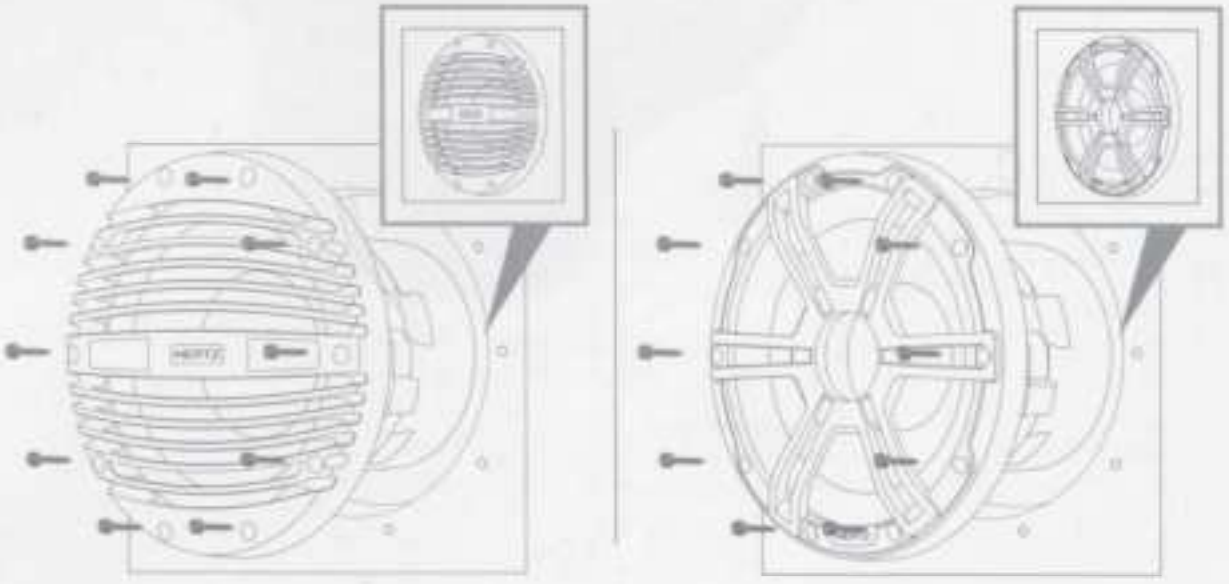
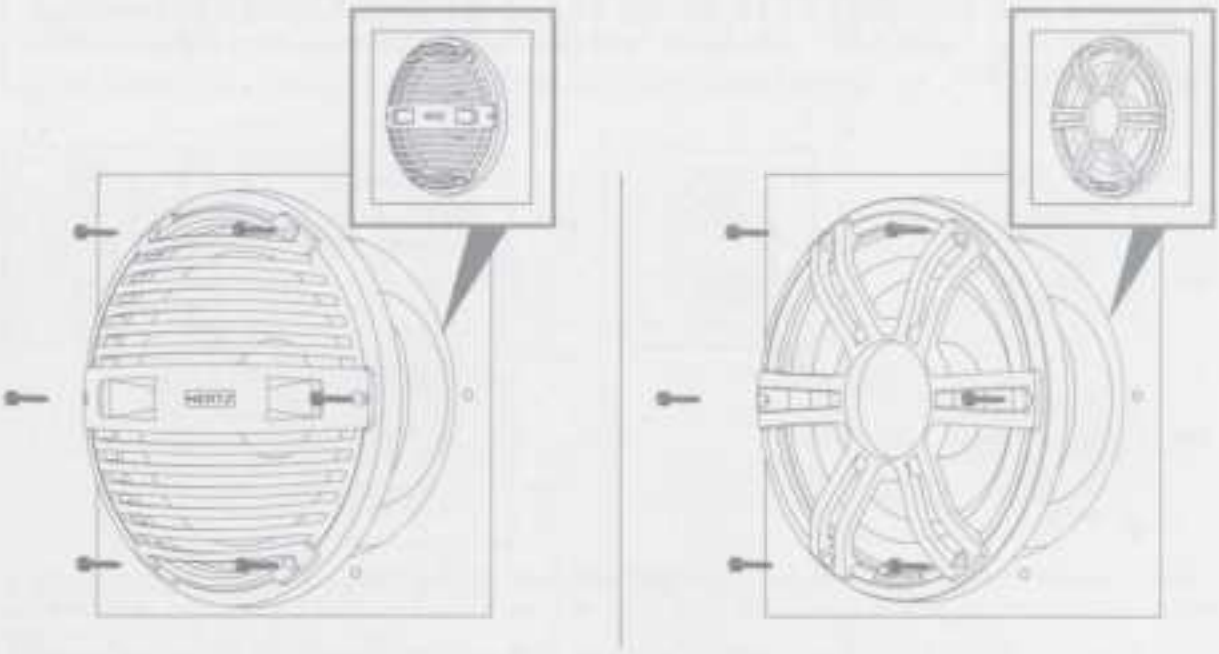
Se non diversamente specificato i prodotti sono sviluppati per applicazioni aria libera (infinite-baffle) ovvero installati senza una cassa di risonanza. Installarli in una cassa di risonanza o in piccoli spazi chiusi potrebbe comprometterne la prestazione in bassa frequenza

HMS 10 B / HMS 10 B-C / HMS 10 B-C2 / HMS 10 B-2 / HMS 10 S-LD-G / HMS 10 S2-LD-G / HMS 10 S2-LD-SW / HMS 10 S4-LD-SW



**HMS 12 B2-LD-W / HMS 12 B4-LD-W / HMS 12 B2-LD-C / HMS 12 B4-LD-C /
HMS 12 S4-LD-G / HMS 12 S2-LD-G / HMS 12 S2-LD-SW / HMS 12 S4-LD-SW**

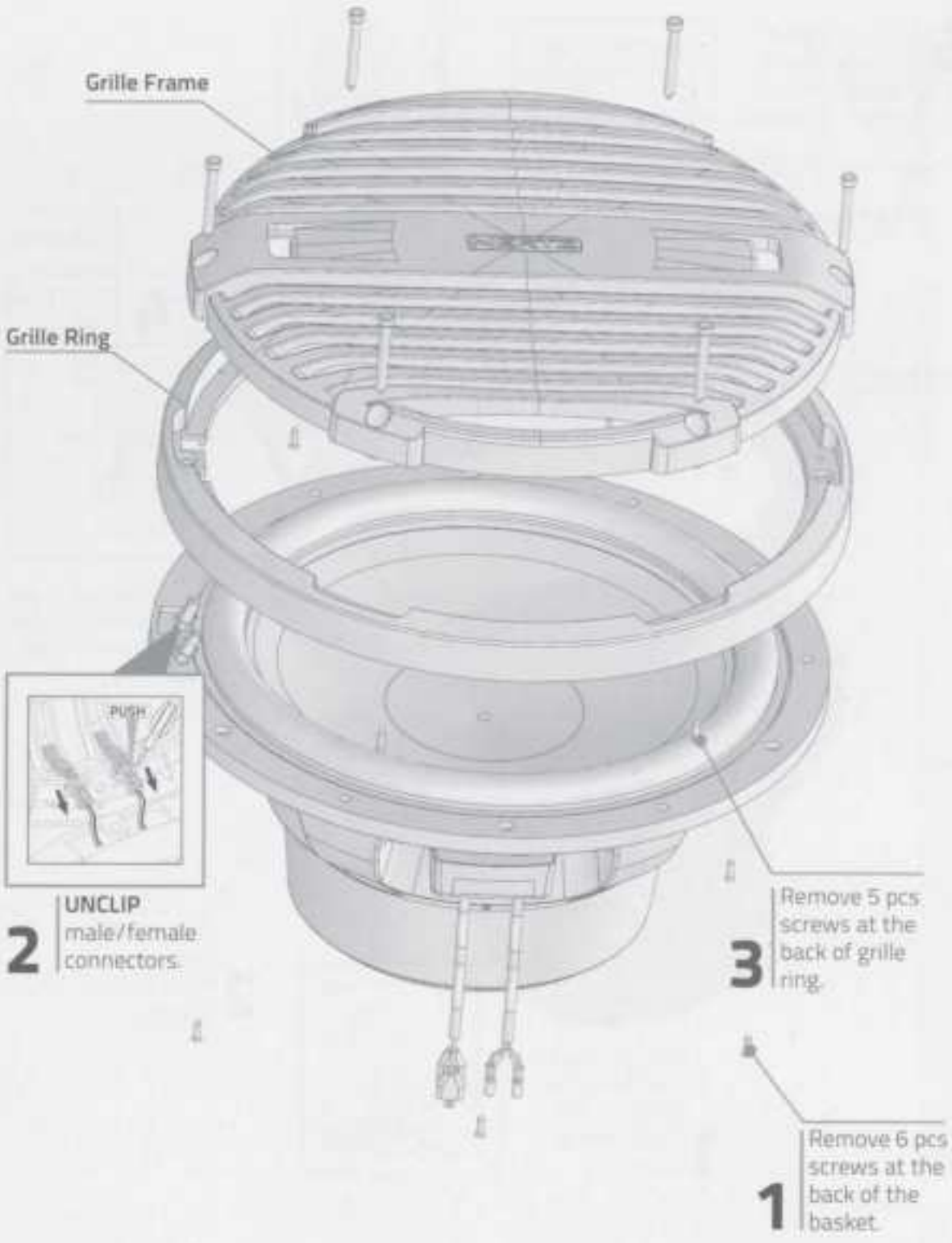


HMS 10 S-LD-G / HMS 10 S2-LD-G / HMS 10 S2-LD-SW / HMS 10 S4-LD-SW
Grille disassembly / assembly

Follow below steps to disassembly the grill. To re-assembly follow the steps back from 5 to 1. Use soft glue to glue back logo (step 5) and gasket (step 1)

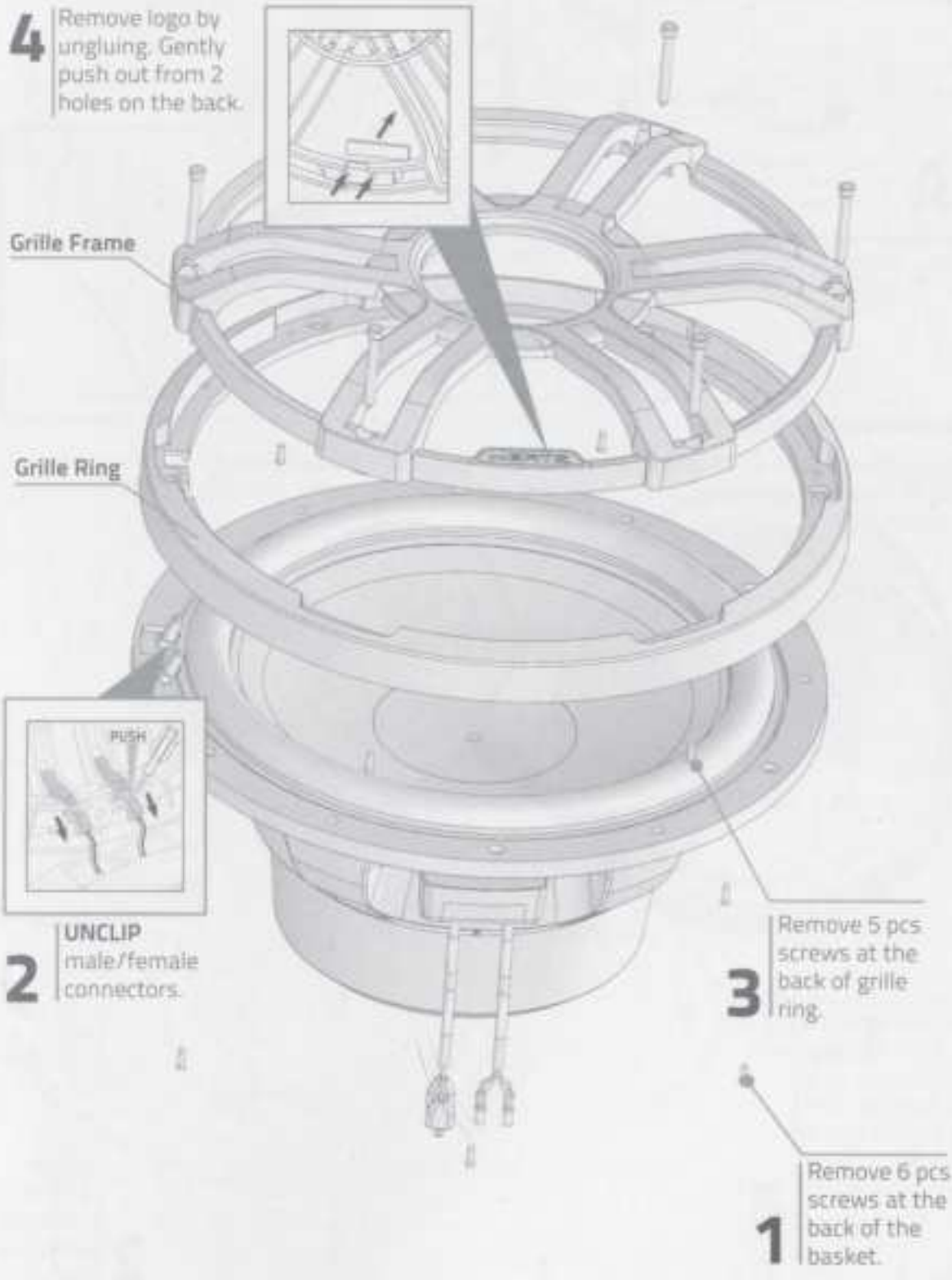
HMS 12 B2-LD-W / HMS 12 B4-LD-W / HMS 12 B2-LD-C / HMS 12 B4-LD-C
Grille disassembly / assembly

Follow below steps to disassembly the grille. To re-assembly follow the steps back from 3 to 1.



HMS 12 S4-LD-G / HMS 12 S2-LD-G / 12 S2-LD-SW / HMS 12 S4-LD-SW
Grille disassembly / assembly

Follow below steps to disassembly the grille. To re-assembly follow the steps back from 4 to 1. Use soft glue to glue back logo (step 4).



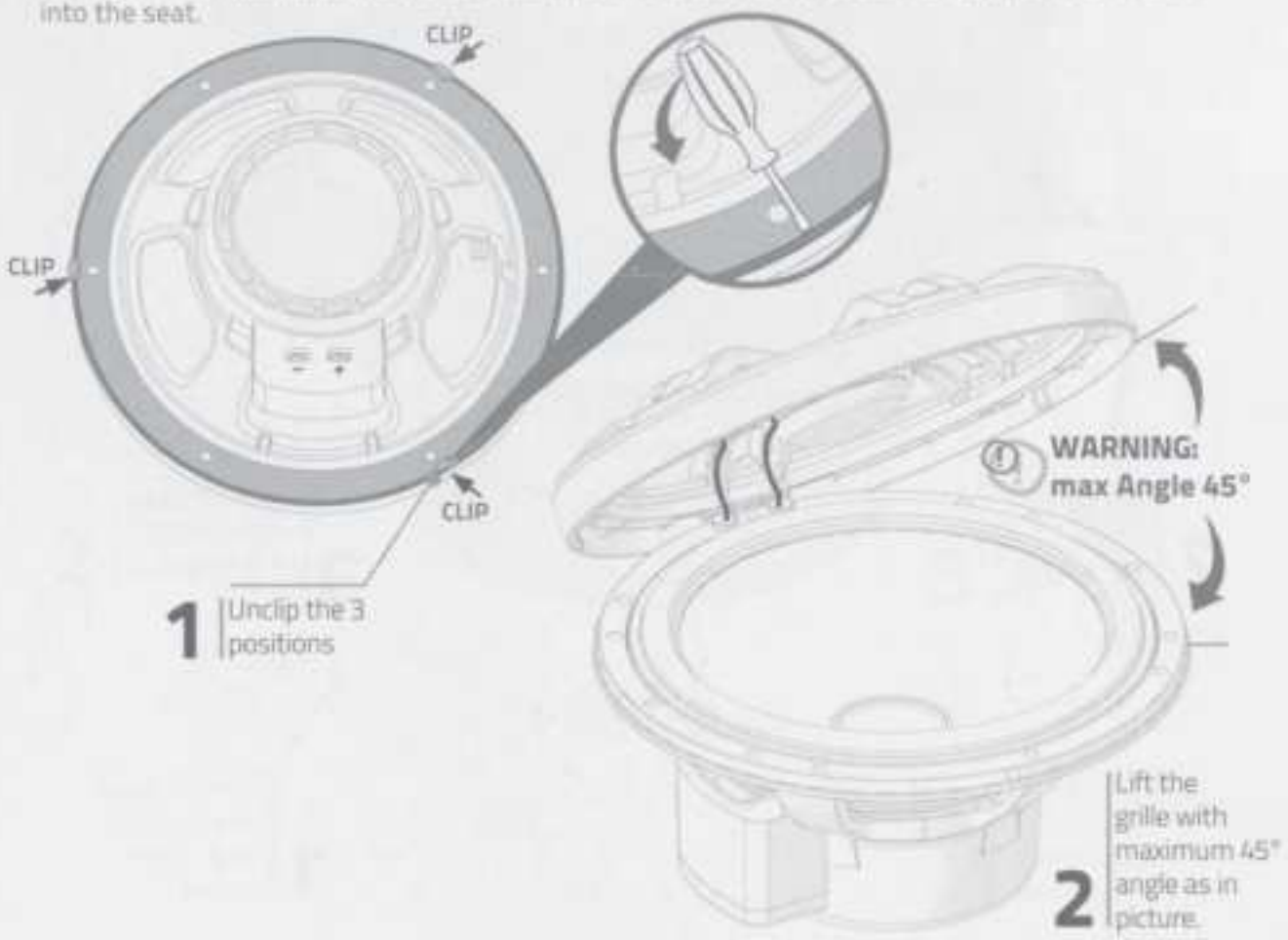
HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW / HMX 8 S-LD-G / HMX 8 S-LD-SW
Logo / Grille disassembly - assembly.

Logo assembly

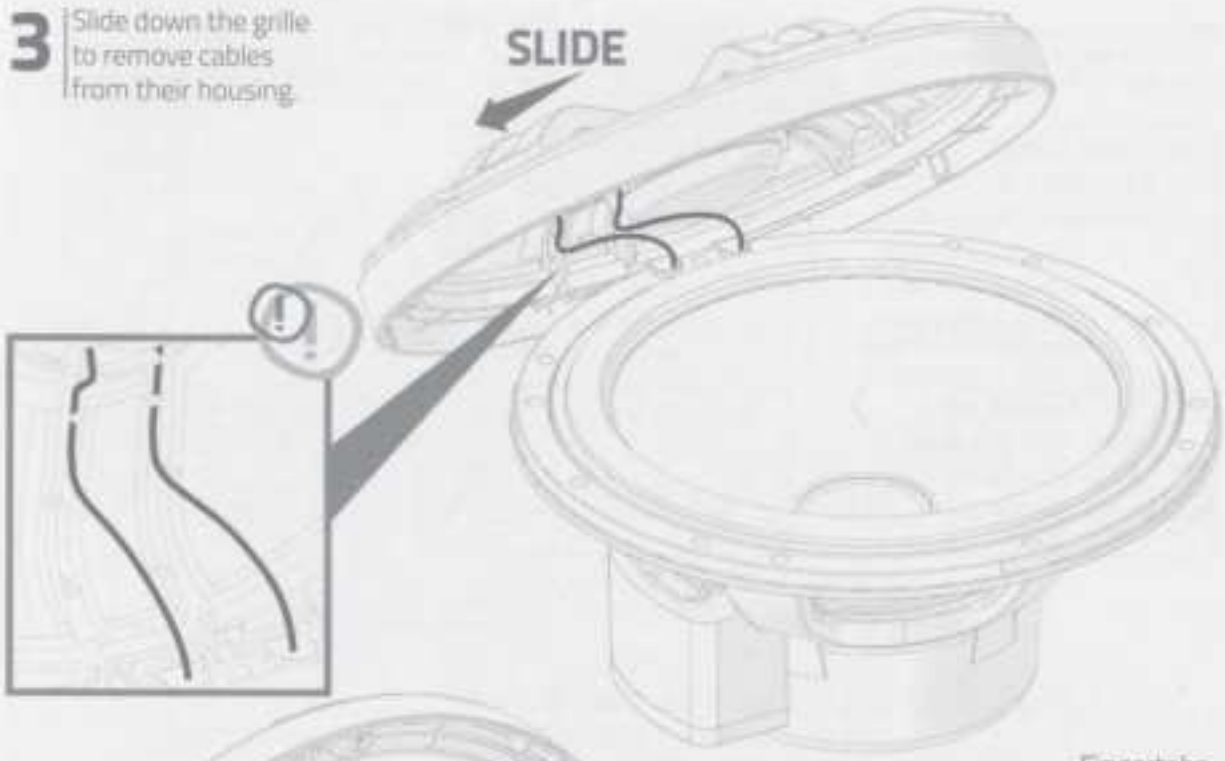
If the grille needs to be custom painted skip to Grille Disassembly / Assembly and then apply logo at the end.

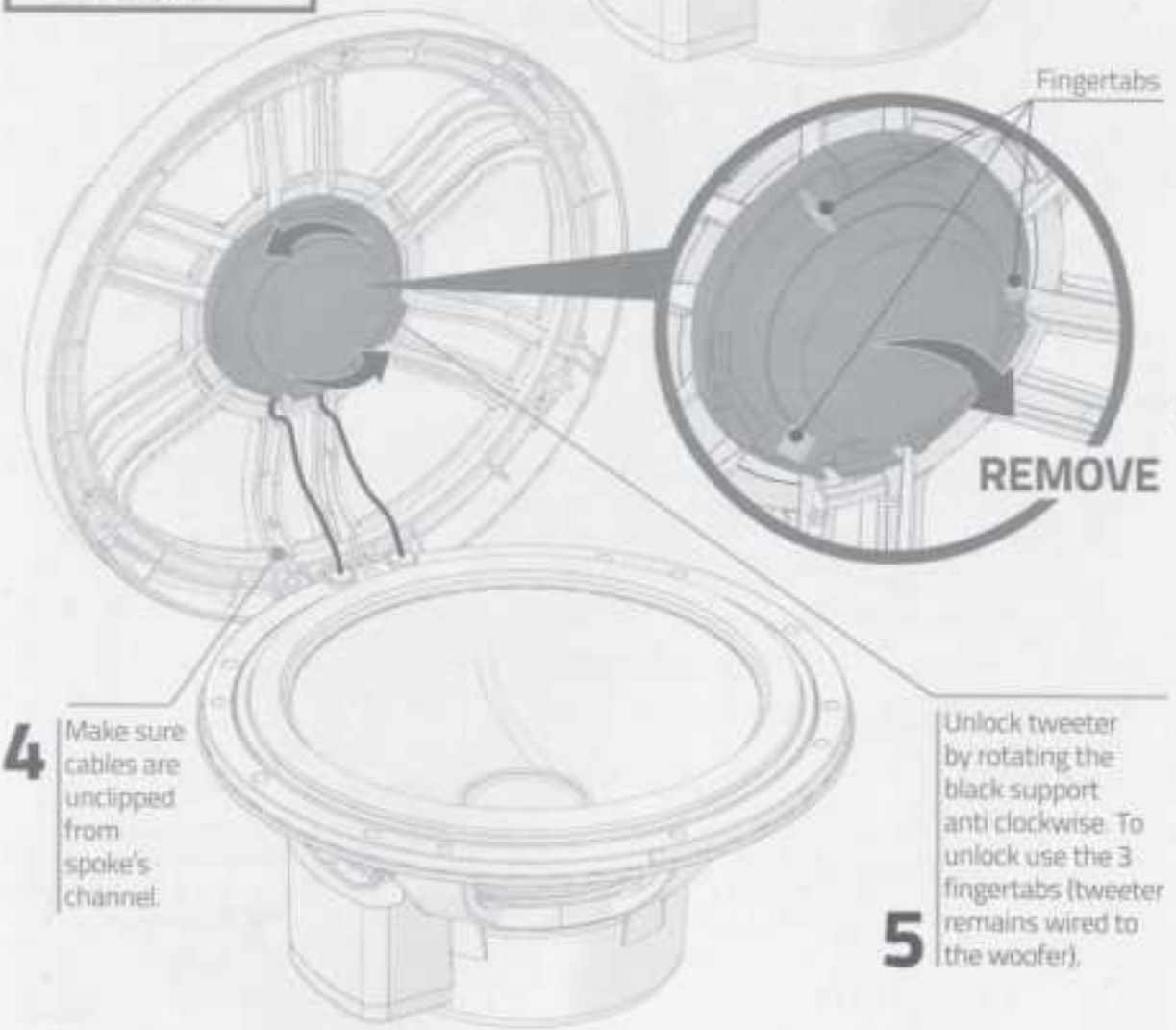
Grille Disassembly / Assembly

Follow below steps to disassembly the grille. To re-assembly follow the steps back from7 to 1. During re-assembly pay attention to hook first the cables on the top and then insert the cables into the seat.



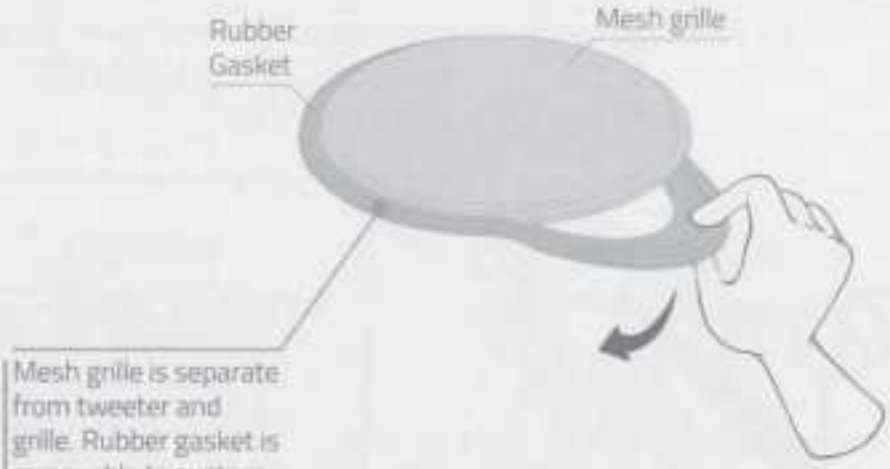
3 Slide down the grille to remove cables from their housing.



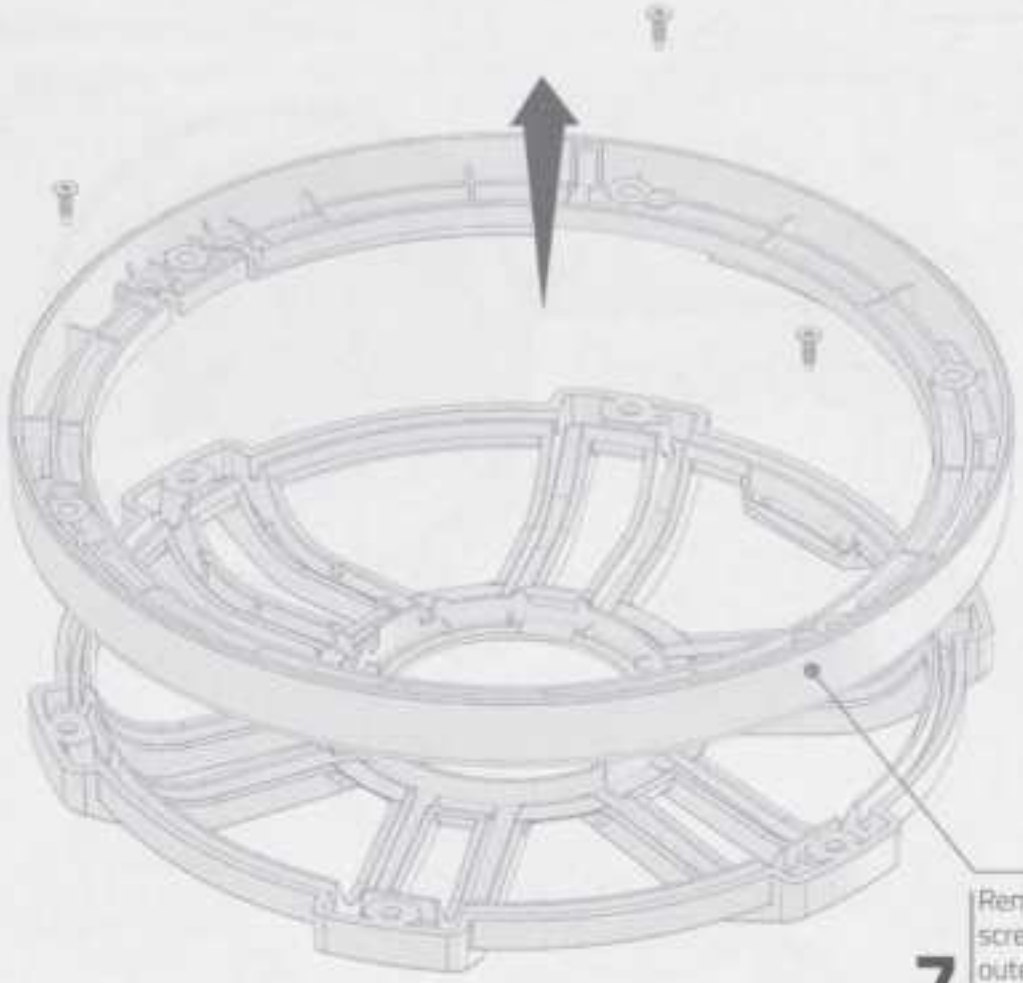


4 Make sure cables are unclipped from spoke's channel.

5 Unlock tweeter by rotating the black support anti clockwise. To unlock use the 3 fingertabs (tweeter remains wired to the woofer).

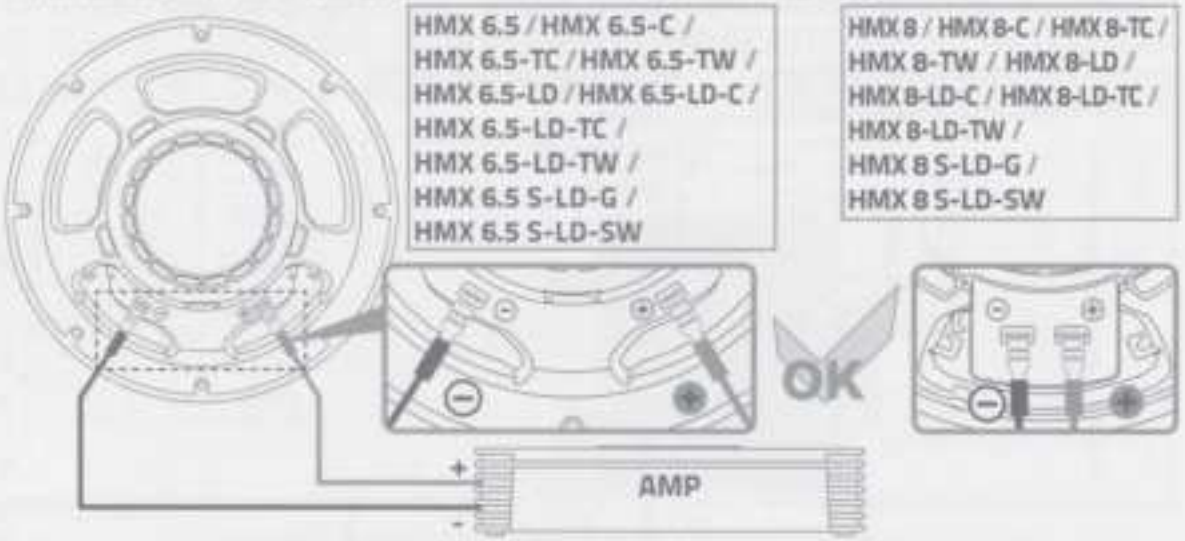


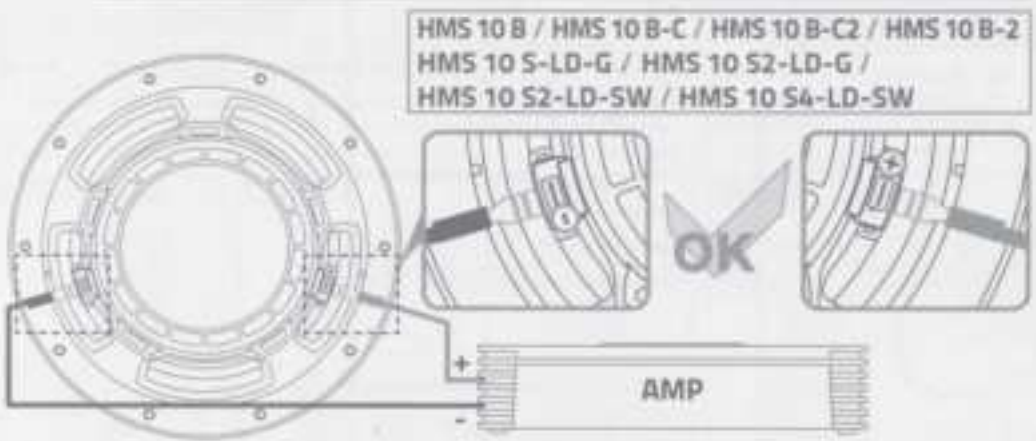
6 Mesh grille is separate from tweeter and grille. Rubber gasket is removable to custom paint the mesh.

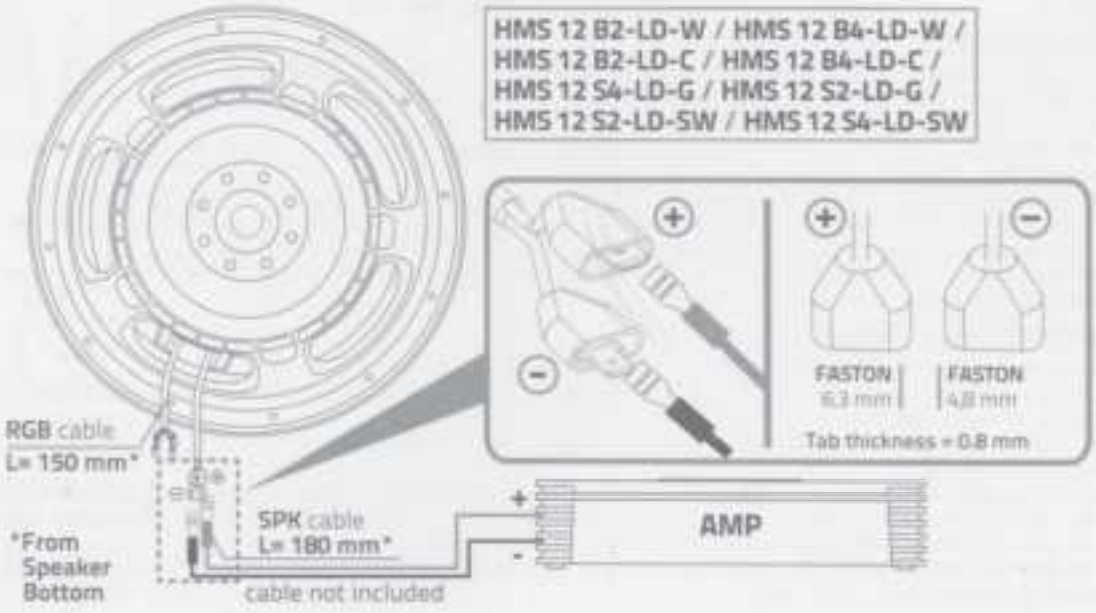


7 Remove the 3 screws to separate outer from inner grille.

■ اتصالات / Свързвания / 連接 / 连接 / Spajanja / Připojení / Forbindelser / Verbindingen / Connections / Ühendused / Kytkennät / Connexions / Verbindungen / Συνδέσεις / חיבורים / Csatlakozók / Sambungan / Connessioni / 接続 / 연결 /Savienojumi / Jungtys / Tilkoblinger / الصالات / Połączenia / Ligações / Conectarea / Подключения / Pripojenia / Vezave / Conexiones / Anslutningar / การเชื่อมต่อ / Bağlantılar

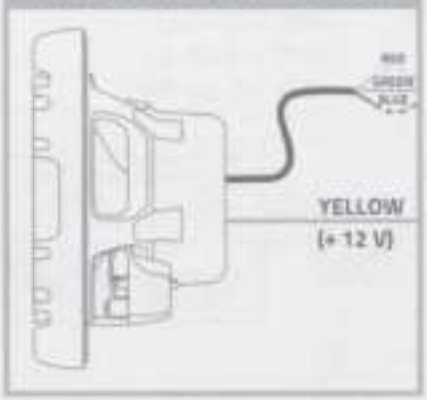






HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-LD-TC / HMX 6.5-LD-TW / HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW / HMX 8-LD / HMX 8-LD-C / HMX 8-LD-TC / HMX 8-LD-TW / HMX 8 S-LD-G / HMX 8 S-LD-SW / HMS 10 S-LD-G / HMS 10 S2-LD-G / HMS 10 S2-LD-SW / HMS 10 S4-LD-SW / HMS 12 B2-LD-W / HMS 12 B4-LD-W / HMS 12 B2-LD-C / HMS 12 B4-LD-C / HMS 12 S4-LD-G / HMS 12 S2-LD-G / HMS 12 S2-LD-SW / HMS 12 S4-LD-SW LED direct wiring

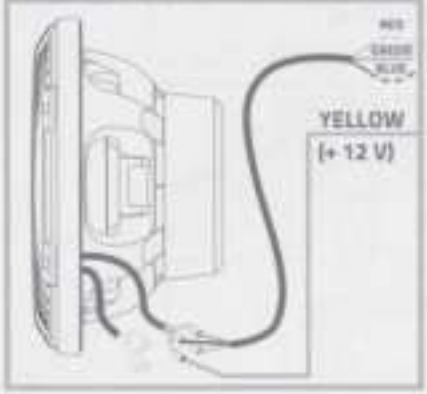
HMX 6.5 / HMX 8 / HMS 10 series

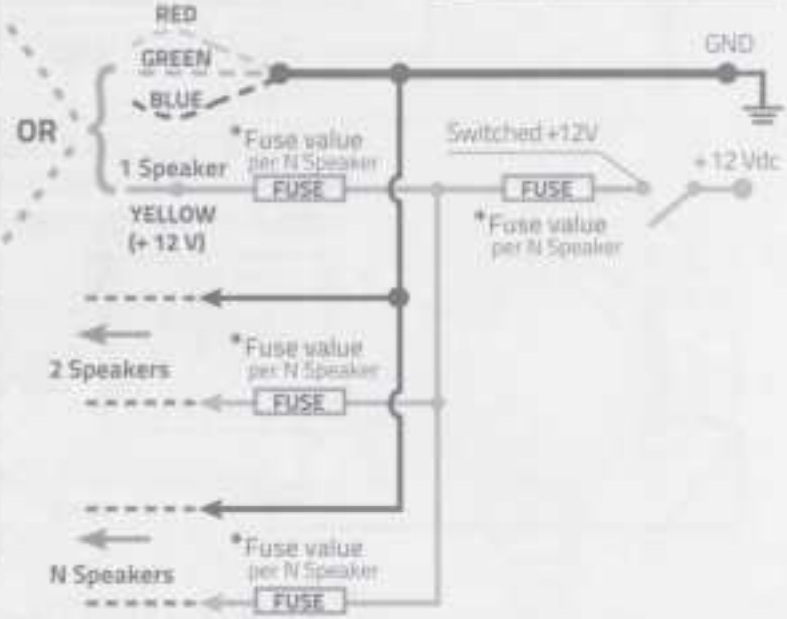


SERIES	FUSE VALUE
HMX 6.5 HMX 8	100 mA
HMS 10	250 mA
HMS 12	250 mA

COLOR	RED	GREEN	BLUE
WHITE	X	X	X
RED	X		
GREEN		X	
BLUE			X
YELLOW	X	X	
PURPLE	X		X
CYAN		X	X

HMS 12 series





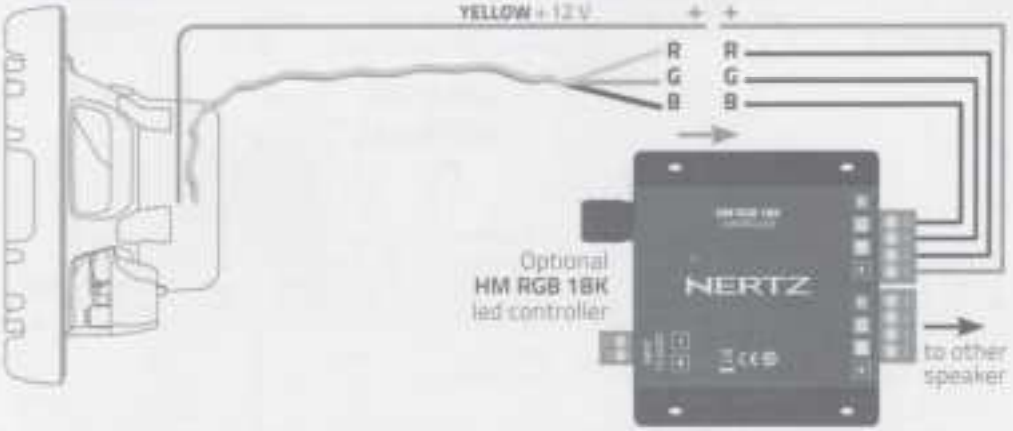
LED CIRCUIT WIRING

- Voltage provided to the LED circuit must **not exceed +12,5 Vdc** referred to the system ground **(GND)**.
- Voltage provided to the LED circuit should be switched by an **activation circuit** in order to turn-on the LED lighting only when required and turn it off when vessel is not used or put into storage.
- Protect the **YELLOW (+12V)** wire with a 100mA fuse, then connect the **YELLOW (+12V)** wires from all the speakers together to the main **Switched +12 Vdc**.
- Fuse the **Switched +12 Vdc** according to the total number of speakers connected in parallel. We suggest for the fuse value to be as close as possible to the standard value corresponding to 100mA or 250 mA x N speakers rounded in excess. I.e. 6 speakers (3 pairs) in parallel requires 100mA x 6 = 600mA, for which the closest standard fuse value rounded in excess would be 630mA.
- Connect the **R(Red), G(Green), B(Blue)** wires from the speaker to the system ground **(GND)** referring to the below table according to the color desired among the 7 available options.

COLLEGAMENTO DEL CIRCUITO LED

- La tensione fornita al LED **non deve superare i 12,5 Vdc** riferiti a massa **(GND)**.
- La tensione fornita al LED dovrebbe essere controllata da un **circuito di attivazione (+12V Switched)** per accendere il LED solo quando necessario e spegnerlo quando l'imbarcazione non viene utilizzata o rimessa.
- Proteggere con un fusibile da 100mA il cavo **YELLOW (+12V)**, poi connettere insieme i cavi **YELLOW (+12V)** di tutti gli speaker **al circuito di attivazione (+12V Switched)**.
- Proteggere con un fusibile la tensione fornita dal **circuito di attivazione (+12V Switched)**. Il valore del fusibile deve essere calcolato con la formula 100mA o 250 mA x N Speaker con il risultato approssimato al valore di fusibile standard più vicino. Esempio 6 speaker (3 coppie) in parallelo richiedono 100mA x 6 = 600mA per il quale il valore standard più vicino è 630mA.
- Collegare i cavi **R(Red), G(Green), B(Blue)** dallo speaker al sistema di massa **(GND)** seguendo la tabella sotto in funzione del colore desiderato tra i 7 disponibili.

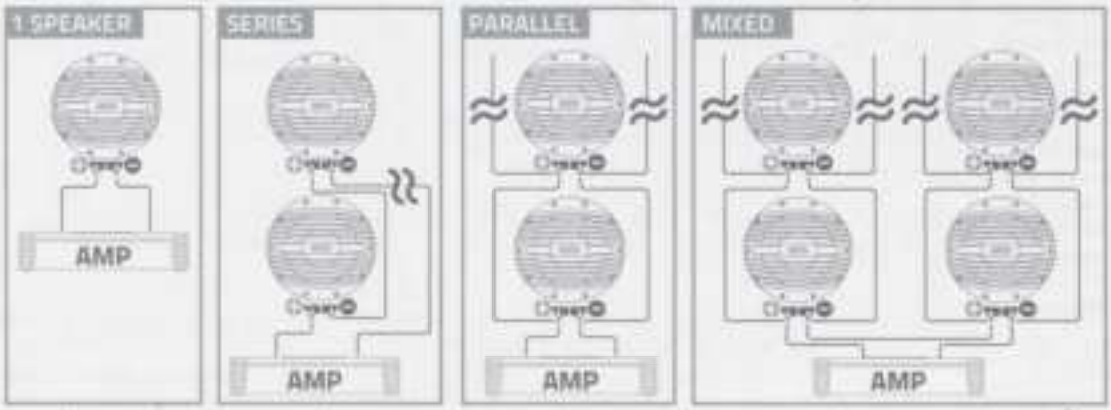
HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-LD-TC / HMX 6.5-LD-TW / HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW / HMX 8-LD / HMX 8-LD-C / HMX 8-LD-TC / HMX 8-LD-TW / HMX 8 S-LD-G / HMX 8 S-LD-SW / HMS 10 S-LD-G / HMS 10 S2-LD-G / HMS 10 S2-LD-SW / HMS 10 S4-LD-SW / HMS 12 B2-LD-W / HMS 12 B4-LD-W / HMS 12 B2-LD-C / HMS 12 B4-LD-C / HMS 12 S4-LD-G / HMS 12 S2-LD-G / HMS 12 S2-LD-SW / HMS 12 S4-LD-SW LED direct wiring



HM RGB 1 BK WIRING:
For detailed instructions on **HM RGB 1 BK** wiring please check the **HM RGB 1 BK** owner's manual.

COLLEGAMENTO HM RGB 1 BK:
Per istruzioni dettagliate sul collegamento dell'**HM RGB1 BK** consultate il relativo manuale d'istruzioni.

■ **Свързвания / Connections / Ühendused / Connexions / Συνδέσεις / Csatlakozók / Connessioni / Jungtys / Ligações / Подключения / Vezave / Anslutningar / Bağlantılar**

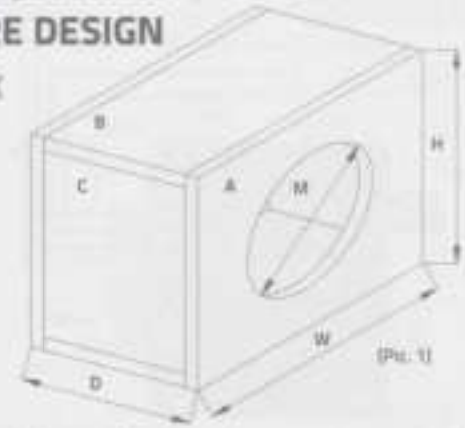


FREE AIR DC RESISTANCE	HMX 6.5 / HMX 6.5-C / HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-TC / HMX 6.5-TW / HMX 6.5-LD-TC / HMX 6.5-LD-TW / HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW	HMX 8 / HMX 8-C / HMX 8-LD / HMX 8-LD-C / HMX 8-TC / HMX 8-TW / HMX 8-LD-TC / HMX 8-LD-TW / HMX 8 S-LD-G / HMX 8 S-LD-SW	HMS 10 B / HMS 10 B-C / HMS 10 S-LD-G / HMS 10 S4-LD-SW	HMS 10 B-C2 / HMS 10 B-2 / HMS 10 S2-LD-G / HMS 10 S2-LD-SW	HMS 12 B2-LD-W / HMS 12 B2-LD-C / HMS 12 S2-LD-G / HMS 12 S2-LD-SW	HMS 12 B4-LD-W / HMS 12 B4-LD-C / HMS 12 S4-LD-G / HMS 12 S4-LD-SW	
1 Speaker	3.5	3.1	4.5	2.1	1.8	3.3	Ω
Series 2 Speaker	7	6.2	9.0	4.2	3.6	6.6	Ω
Series 3 Speaker	10.5	9.3	13.5	6.3	5.4	9.9	Ω
Series 4 Speaker	14	12.4	18.0	8.4	7.2	13.2	Ω
Parallel 2 Speaker	1.8	1.6	2.3	1.1	0.9	1.7	Ω
Parallel 3 Speaker	1.2	1	1.5	0.7	0.6	1.1	Ω
Parallel 4 Speaker	0.9	0.8	1.1	0.5	0.45	0.8	Ω
Mixed 4 Speaker	3.5	3.1	4.5	2.1	1.8	3.3	Ω
Mixed 6 Speaker	2.3	2.1	3.0	1.4	1.2	2.2	Ω
Mixed 8 Speaker	1.8	1.6	2.3	1.1	0.9	1.6	Ω

■ تصاميم صناديق السماعات / Проекти за резонаторни кутии за субуфери / 低音扬声器的箱体设计 / Projekti harmoničnih spojeva za niskotonski zvučnik / Projekty pro harmonické reproduktory subwoofer / Ontwerpen voor harmonische boxen voor subwoofers / Design of subwoofer enclosures / Subwooferite harmooniliste korpuste projektid / Harmonisten subwoofer-kaiutinkotelöiden rakennusohjeet / Projets de caisses de résonance pour subwoofer / Entwürfe für Subwoofer-Boxen / Σχέδιο τρόπων για subwoofer / Hangfal tervezés mélysugárzóhoz / Desain soundboards untuk subwoofer / Progetti di casse armoniche per subwoofer / サブウーファー用の共鳴ボックス / 서브우퍼용 위한 음기통은 스피커 표준제품 / Rezonansinių garso dėžių projektai žemų dažnių garsiakalbiui / Projekty skrzyń do subwooferów / Projetos de caixas harmónicas para subwoofer / Проекты акустического корпуса для сабвуфера / Projekty pre harmonické reproduktory subwoofer / Projekti harmoničnih ohišij za subwoofer / Proyectos de cajas armónicas para subwoofer / Resonanslådor projekt för subwoofer / แบบการทำตะแกรงลำโพงซับวูฟเฟอร์ / Subwoofer için ses kasaları projeleri

ENCLOSURE DESIGN

SEALED BOX ASSEMBLY



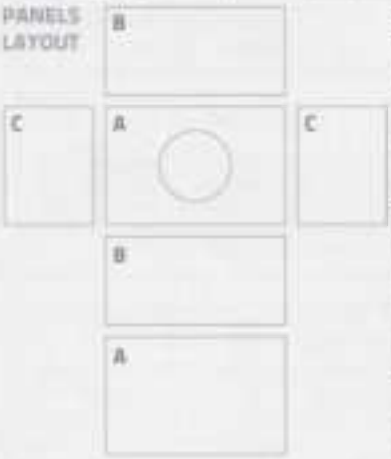
(Pic. 1)

DAMPING MATERIAL


(Pic. 2)

BOX TECH DATA	Vb	Fb	Qtc	External dimensions Pic. 1			Mounting Hole - M	Wood Thickness	Suggested Subsonic filter cut-off	Suggested Lo-pass filter cut-off	Damping Material
				W	H	D					
	l (cu. ft.)	Hz		mm (in.)	mm (in.)	mm (in.)	mm (in.)	mm (in.)			
HMS 10 B / HMS 10 B-C HMS 10 B-C2 / HMS 10 B-2 HMS 10 S-LD-G / HMS 10 S2-LD-G HMS 10 S2-LD-SW HMS 10 S4-LD-SW COMPACT	50 (1.77)	54	1.05	440 (17.32)	440 (17.32)	365 (14.37)	230 (9.06)	19 (0.75)	20 Hz 24dB Oct	100 Hz 12dB Oct	Pic. 2
HMS 10 B / HMS 10 B-C HMS 10 B-C2 / HMS 10 B-2 HMS 10 S-LD-G / HMS 10 S2-LD-G HMS 10 S2-LD-SW HMS 10 S4-LD-SW PERFORMANCE	71 (2.51)	51	0.99	460 (18.11)	460 (18.11)	450 (17.72)	230 (9.06)	19 (0.75)	20 Hz 24dB Oct	150 Hz 12dB Oct	Pic. 2

PANELS LAYOUT



BOX ASSEMBLY AND SHAPE

This manual features the box assemblies and shapes which are easiest to create. However, the bass frequency performance can be noticeably improved with different box shapes, assembly methods and construction materials.

PANELS CUT LIST	A	Qty	B	Qty	C	Qty
	mm (in.)	Pcs	mm (in.)	Pcs	mm (in.)	Pcs
HMS 10 B / HMS 10 B-C HMS 10 B-C2 / HMS 10 B-2 HMS 10 S-LD-G / HMS 10 S2-LD-G HMS 10 S2-LD-SW HMS 10 S4-LD-SW COMPACT (50lt)	440 X 440 (17.32 x 17.32)	2	440 x 327 (17.32 x 12.87)	2	402 x327 (15.83 x 12.87)	2
HMS 10 B / HMS 10 B-C HMS 10 B-C2 / HMS 10 B-2 HMS 10 S-LD-G / HMS 10 S2-LD-G HMS 10 S2-LD-SW HMS 10 S4-LD-SW PERFORMANCE (70lt)	460 x 460 (18.11 x 18.11)	2	460 x 412 (18.11 x 16.22)	2	422 x 412 (16.61 x 16.22)	2

■ المعلمات الكهرو صوتية / **Електро-акустични параметри** / 電聲參數 / **电声参数** / Elektro-akustički parametri / **Elektroakustické parametry** / Electro-Acoustic parametre / **Elektro-akoestische parameters** / Electro-Acoustic parameters / **Elektroakustilised parameetrid** / Sähköakustiset parametrit / **Paramètres électro-acoustiques** / Elektro-akustische Parameter / **Ηλεκτρο-ακουστικές παράμετροι** / פרמטרים אלקטרו-אקוסטיים/ **Elektro-akusztikus paraméterek** / Parameter elektro-akustik / **Parametri elettroacustici** / 電気音響パラメータ / **전자 어쿠스틱 파라미터** / Elektro-akustiskie parametri / **Elektriniai-akustiniai parametrai** / Elektro-akustiska parametre / پارامترهای الکترو آکوستیکی/ Parametry elektro-akustyczne / **Parâmetros electro-acústicos** / Specificatii tehnice / **Электроакустические параметры** / Elektro-akustické parametre / **Elektro-akustični parametri** / Parámetros electroacústicos / **Elektroakustiska parametrar** / อิเล็กโทร-อคูสติก พารามิเตอร์ / **Elektro-aküstik parametreler**

	HMX 6.5 / HMX 6.5-C / HMX 6.5-LD / HMX 6.5-LD-C / HMX 6.5-TC / HMX 6.5-TW / HMX 6.5-LD-TC / HMX 6.5-LD-TW / HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW	HMX 8 / HMX 8-C / HMX 8-LD / HMX 8-LD-C / HMX 8-TC / HMX 8-TW / HMX 8-LD-TC / HMX 8-LD-TW / HMX 8 S-LD-G / HMX 8 S-LD-SW	HMS 10 B / HMS 10 B-C / HMS 10 S-LD-G HMS 10 S4-LD-SW	HMS 10 B-C2 / HMS 10 B-2 / HMS 10 S2-LD-G / HMS 10 S2-LD-SW	HMS 12 B2-LD-W / HMS 12 B2-LD-C / HMS 12 S2-LD-G / HMS 12 S2-LD-SW	HMS 12 B4-LD-W / HMS 12 B4-LD-C / HMS 12 S4-LD-G / HMS 12 S4-LD-SW
D mm	125	174	210	210	300	300
Xmax mm	3.65	4.5	13.5	12.3	19	19
Re Ω	3.5	3.1	4.5	2,1	1.8	3.3
Fs Hz	65	50	41	41	30	30
Le mH	0.53	0.52	0.9	0.46	0.41	0.62
Vas l	8.8	29.46	37	31	95.4	104.7
Mms g	14	27.3	69	75.6	114	112
Cms mm/N	0.4	0.37	0.22	0.18	0.225	0.247
BL T•m	5.2	6.6	10.2	8,3	8	8
Qts	0.7	0.58	0.71	0.6	1	1
Qes	0.75	0.61	0.76	0.63	1.1	1.1
Qms	11.5	11	11	12,3	11.1	12.9
Spl dB	89	91	88	88.5	89.5	89,5

■ المواصفات الفنية / **Технически спецификации** /技術規格/ **技术规格** / Tehnički podaci / **Technická údaje** / Tekniske specifikationer / **Technische specificaties** / Technical specifications / **Tehnilised andmed** / Tekniset tiedot / **Caractéristiques techniques** / Technische daten / **Τεχνικά χαρακτηριστικά** / 기술 사양 / **Műszaki adatok** / Spesifikasi teknis / **Specifiche tecniche** / 技術仕様 / 기술 사양 / Techniniai duomenys / Tekniska specifikasjoner / مشخصات فنی / Szczegóły techniczne / **Especificações técnicas** / Parametrii electro-acustici / **Технические условия** / Technické informácie / **Tehnične specifikacije** / Especificaciones técnicas / **Tekniska specifikationer** / ความจำเพาะทางเทคนิค / **Teknik veriler**

	Component	Size	Power handling		Impedance	Magnet Size	Voice Coil Ø	Magnet	Cone	Weight of one component
			Peak	Continuous						
		mm (in.)	W	W	Ω	mm (in.)	mm (in.)			Kg (lb.)
HMX 6.5 HMX 6.5-C HMX 6.5-TC HMX 6.5-TW HMX 6.5-LD HMX 6.5-LD-C HMX 6.5-LD-TC HMX 6.5-LD-TW HMX 6.5 S-LD-G / HMX 6.5 S-LD-SW	Two Way Coaxial	Woofer 165 (6.5) Tweeter diaphragm 36 (1.4)	150	75	4	79.5 x 32 x 17 (3.09x1.26x0.67) 19.7 x 0 x 3 (0.78 x 0 x 0.12)	25 (1) 20 (0.8)	High density flux ferrite Neodymium	Polypropylene with UV inhibitors	1 (2.2)
HMX 8 HMX 8-C HMX 8-TC HMX 8-TW HMX 8-LD HMX 8-LD-C HMX 8-LD-TC HMX 8-LD-TW HMX 8 S-LD-G HMX 8 S-LD-SW	Two Way Coaxial	Woofer 200 (8) Tweeter diaphragm 36 (1.4)	200	100	4	90 x 40 x 20 (3.54x1.57x0.79) 19.7 x 0 x 3 (0.78 x 0 x 0.12)	32 (1.26) 20 (0.8)	High density flux ferrite Neodymium	Polypropylene with UV inhibitors	1.66 (3.66)
HMS 10 B HMS 10 B-C HMS 10 S-LD-G HMS 10 S4-LD-SW	Subwoofer	250 (10)	500	250	4	140 x 60 x 30 (5.51 x 2.36 x 1.18)	50 (2)	High density flux ferrite	Polypropylene with UV inhibitors	5.1 (11.24)
HMS 10 B-C2 HMS 10 B-2 HMS 10 S2-LD-G HMS 10 S2-LD-SW	Subwoofer	250 (10)	500	250	2	140 x 60 x 30 (5.51 x 2.36 x 1.18)	50 (2)	High density flux ferrite	Polypropylene with UV inhibitors	5.1 (11.24)
HMS 12 B2-LD-W HMS 12 B2-LD-C HMS 12 S2-LD-G HMS 12 S2-LD-SW	Subwoofer	300 (12)	1000	500	2	156 x 80 x 40 (6.14 x 3.15 x 1.57)	65.9 (2.6)	High density flux ferrite	Polypropylene with UV inhibitors	7.8 (16.8)
HMS 12 B4-LD-W HMS 12 B4-LD-C HMS 12 S4-LD-G HMS 12 S4-LD-SW	Subwoofer	300 (12)	1000	500	4	156 x 80 x 40 (6.14 x 3.15 x 1.57)	65.9 (2.6)	High density flux ferrite	Polypropylene with UV inhibitors	7.8 (16.8)

HERTZ

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