

www.hertzaudiovideo.eu



Mille PRO

OWNER'S MANUAL
Comp - System - Coax

HERTZ
The Sound Experience

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 experiencing the car audio emotion. 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 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.
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.
7. Do not install loudspeakers where they may be exposed to water, excessive humidity, dust or dirt.
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.
10. Be very cautious when drilling or cutting into the vehicle chassis, making sure there are no cables or structural elements essential to the vehicle 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 vehicles 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.
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.

SAFE SOUND

USE COMMON SENSE AND PRACTICE SAFE SOUND. PLEASE REMEMBER THAT LONG EXPOSURE TO EXCESSIVELY HIGH SOUND PRESSURE LEVELS MAY DAMAGE YOUR HEARING. SAFETY MUST BE AT THE FOREFRONT WHILE DRIVING.



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 in 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.

Eesti / Estonian

Õnnitleme teid meie toote ostmise puhul. Teie rahulolu on esimene tingimus, millele meie tooted peavad vastama; rahulolu, mille saavad need, kes loodavad kogeda auto helisüsteemist saadavaid elamusi. See kasutusjuhend on mõeldud pakkuma peamisi juhiseid, mis on vajalikud süsteemi õigeks paigaldamiseks ja kasutamiseks. Siiski on kasutusrakenduste valik lai; täpsema info saamiseks võtke ühendust oma usaldusväärse edasimüüjaga või meie tehnilise toega e-posti aadressil support@elettromedia.it. Lugege enne komponentide paigaldamist põhjalikult kõiki selles kasutusjuhendis sisalduvaid juhiseid. Nende juhiste eiramine võib põhjustada tootele soovimatuid kahjusid ja vigastusi.

1. Kõik komponendid tuleb korralikult šassii külge kinnitada. Sama kehtib mistahes spetsiaalpaigalduste kohta. Veenduge, et paigaldus on korralikult kinnitatud ja turvaline. Sõidu ajal lahti tulev detail võib rängalt vigastada nii autosolijaid kui teisi sõidukeid.
2. Tööriistade kasutamisel kasutage alati silmakaitseid, kuna killud või tootejäägid võivad laiali paiskuda.
3. Hoidke soovimatute kahjustuste vältimiseks toodet võimalusel originaalpakendis seni, kuni te olete valmis seda lõplikult paigaldama.
4. Ärge paigaldage midagi mootoriruumi.
5. Enne paigalduse alustamist lülitage välja põhiseade ja kõik muud audiosüsteemi osad, kuna vastasel juhul võivad need viga saada.
6. Veenduge, et osade paigaldamiseks valitud koht ei häiri sõiduki mehaaniliste ja elektriseadmete normaalset tööd.
7. Ärge paigaldage kõlareid kohta, kus nad võivad kokku puutuda vee, ülemäärase niiskuse või mustusega.
8. Ärge paigaldage kõrgsageduskõlarit ilma kupli eesmise kaitsevõreta.
9. Ärge paigaldage komponente ega vedage kaableid sõiduki elektrikarbi lähedale.
10. Šassii puurimisel ja lõikamisel tuleb olla äärmiselt ettevaatlik ning kontrollida, et paigalduseks valitud piirkonnas ega selle all pole ei elektrijuhtmeid ega sõiduki struktuurielemente.
11. Kaablite juhtimisel jälgige, et kaabel ei puutuks kokku teravate servadega ega satuks liikuvate mehaaniliste seadmete lähedale. Veenduge, et see on kogu pikkuses kindlalt kinnitatud ja kaitstud ning et selle isolatsioon on isekustuv.
12. Kasutage vastavalt kasutatavale toitele ainult sobiva ristlõikega (AWG) kaableid.
13. Kaabli tõmbamisel läbi sõiduki šassisis oleva ava kaitske kaablit kummist kaitserõngaga. Jälgige, et te tagaksite kuumust kiirgavate alade läheduses olevate kaablitele sobiva kaitse.
14. Ärge vedage kaableid väljaspool sõidukit.
15. Kasutage parima kvaliteediga kaableid, ühendusi ja muid lisaseadmeid, näiteks kataloogist Connection.
16. Garantiikaart: Lisainfot leiate Herzi veebilehelt.

OHUTU HELI

KASUTAGE MÕISTLIKULT OHUTUT HELI. PIDAGE MEELES, ET PIKAAJALINE VÄGA TUGEVA HELIRÕHUGA HELI KUULAMINE VÕIB KUULMIST KAHJUSTADA. SÕIDUKI JUHTIMISEL ON ESMATÄHTSIS OHUTUS.



Teave elektriliste ja elektroonikajäätmete kohta (nendele Euroopa riikidele, mis korraldavad sorteeritud jäätmete kogumist)
Tooted, mis on märgistatud läbikriipsutatud (X) ratasel prügikonteineri märgiga, ei või üheski koost teise tavapäraste olmejäätmetega. Neid elektrilisi ja elektroonilisi tooteid tuleb ümber töödelda sobivates tehastes, mis on suutlised neid tooteid ja komponente utiliseerima. Võtke ühendust oma kohaliku omavalitsusega, et teada saada kuhu ja kuidas tuleks neid tooteid lähimasse ümbertöötlemis-/utiliseerimisjaama toimetada. Jäätmete sobiv ümbertöötlemine ja utiliseerimine aitab kaasa keskkonna kaitsmisele ja ennetab ohtlikke mõjusid tervisele.

■ Гарантия Hertz

Продукция **Hertz** обладает гарантией в течение установленного текущими законами срока, при нормальных условиях использования, если она вызвана дефектами материалов или их производства. Гарантия действительна с даты покупки, подтвержденной чеком. Гарантия недействительна в следующих случаях:

- продукт поврежден в результате инцидентов, не касающихся материалов или производственных дефектов;
- продукт изменен или фальсифицирован неуполномоченными лицами;
- его серийный номер изменен или стерт.

Если на продукт распространяется гарантия, его производитель принимает решение о ремонте или замене его неисправных деталей. Неисправный продукт необходимо передать распространителю, где он был куплен, предъявив полностью заполненный гарантийный сертификат. В случае если гарантия больше не распространяется на продукт, он будет отремонтирован по текущей стоимости. Мы не принимаем на себя обязательства, связанные с повреждениями вследствие транспортировки. Мы не несем ответственности за: расходы или потеря прибыли вследствие невозможности пользования данным продуктом, прочие случайные или возможные издержки, расходы или повреждения, покрытые клиентом. Гарантия в соответствии с действующим законодательством.

■ Hertz Warranty

The Hertz products are warranted, under normal functioning conditions, for the period of time as set by the laws in force, against defects concerning materials or their manufacturing. The warranty is valid from the date of purchase, certified by receipt. The warranty is not valid if:

- the product is damaged by incidents, installations and/or improper use, or by any other causes not depending on materials or manufacturing defects;
- the product is modified or tampered with by unauthorised people;
- its serial number has been altered or cancelled.

While the product is under warranty, defective parts will be repaired or replaced at the manufacturer's discretion.

The defective product, along with notification about it, must be returned to the dealer from which it was purchased together with the warranty certificate duly filled in. If the product is no longer under warranty, it will be repaired at the current costs.

Elettromedia s.r.l. does not undertake any liability for damages due to transportation.

Elettromedia s.r.l. does not take any responsibility for: costs or loss of profit due to the impossibility to use the product, other accidental or consequential costs, expenses or damages suffered by the customer.

Warranty according to laws in force.

For more information visit the Hertz website.

Mille

■ محتويات العبوة / Съдържание на опаковката / 包裝內容 / 内裝物 / Sadržaj pakiranja / Obsah balení / Pakkensis indhold / Pakket inhoud / Packaging contents / Pakendi sisu / Pakkauksen sisältö / Contenu de l'emballage / Verpackungsinhalt / Περιεχόμενα συσκευασίας / תוכן האריזה / A csomag tartalma / Isi kemasan / Contenuto dell'imballo / パッケージ内容 / 패키지 내용 / Lepakojuoma saturs / Pakuotės turinys / Innhold / محتويات بسته / Zawartość opakowania / Conținutul pachetului / Комплектация / Obsah balenia / Vsebina embalaže / Contenido del embalaje / Förpackningens innehåll / ส่วนประกอบภายใน / Paket içeriği

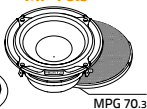
MP 25.3



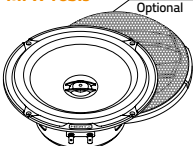
MP 28.3



MP 70.3



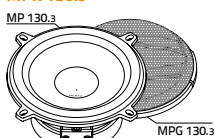
MPX 165.3



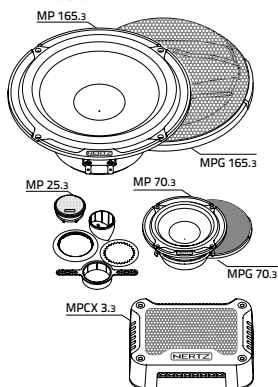
MPX 690.3



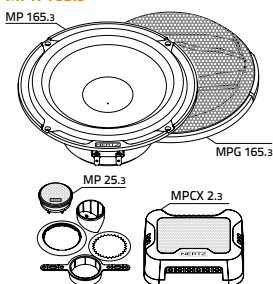
MPK 130.3



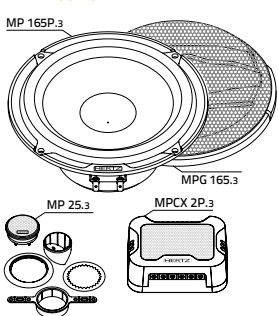
MPK 163.3



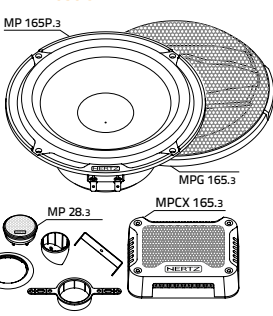
MPK 165.3



MPK 165P.3

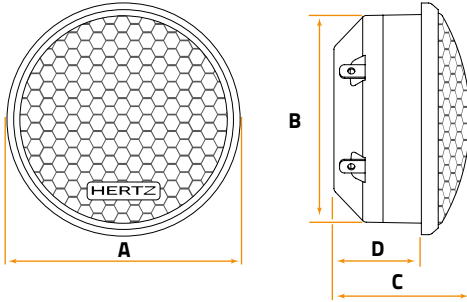


MPK 1650.3



■ **الحجم / Paзмер / 尺寸 / 規格 / Veličina / Velikost / Størrelse / Afmetingen / Size / Suurus / Koko / Dimensions / Größe / Διαστάσεις / اندازه / Méretek / Ukuran / Ingombro / サイズ / ｺﾋﾞ / Izmērs / Dydis / Størrelse / גודל / Wielkość / Dimensão / Dimensiuni / Paзмер / Rozmery / Velikost / Tamaño / Storlek / ขนาด / Ebat**

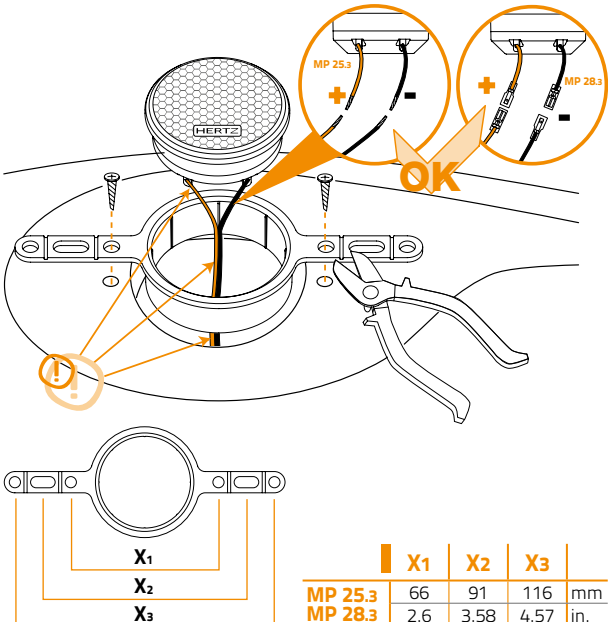
MP 25.3 - MP 28.3



	A	B	C	D	
MP 25.3	44	41	27	17	mm
	1.73	1.61	1.06	0.67	in.
MP 28.3	53,4	48	28	13,5	mm
	2.1	1.89	1.1	0.53	in.

■ **التثبيت على نفس المستوى / Скрыт монтаж / 沖洗安裝 / 嵌入裝置 / Razinska ugradnja / Montaž pod omítku / Flush montering / Inbouwmontage / Flush mounting / Süvispaigaldus / Asennus pinnan tasoon / Montage encastré / Einbau / Χωνευτή τοποθέτηση / הרכבה שטוחה / Szintbe szerelés / Pemasangan di dinding langit-langit / Montaggio incassato / フラッシュマウント / 폴러시 마운트 / ledzījinātā uzstādīšana / Rémelio montavimas / Innfelling / تعبيه نوکار / Montaž płaski / Montagem embutida / Montaj incastat / Скрытый монтаж / Zapustená montáž / Prilegajoča namestitev / Montaje empotrado / Spolmontering / การใส่ลำโพงในแนวราบ / Gömme montaj**

MP 25.3 - MP 28.3

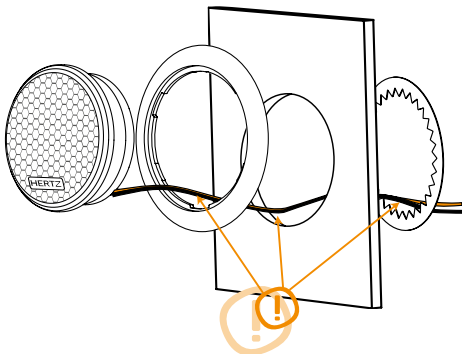


	X1	X2	X3	
MP 25.3	66	91	116	mm
MP 28.3	2.6	3.58	4.57	in.

Mille

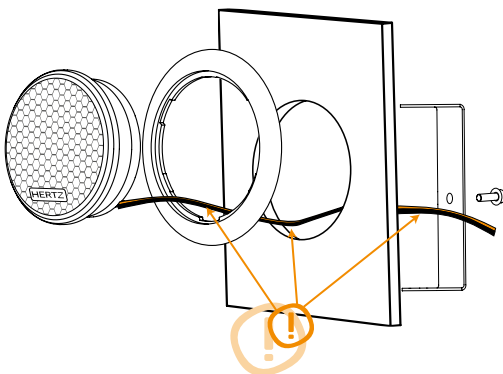
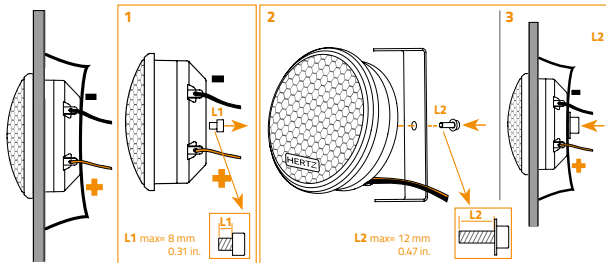
التثبيت على نفس المستوى / Скрыт монтаж / 嵌入式 / Razinska ugradnja / Montaż pod omiłtku / Inbouwmontage / Flush mounting / Süvispaigaldus / Asennus pinnan tasoon / Montage encastré / Einbau / Χωνευτή τοποθέτηση / Szintbe szerelés / Pemasangan di dinding langit-langit / Montaggio incassato / フラッシュマウント / 폴러시 마운트 / Rémelio montavimas / Montaż płaski / Montagem embutida / Скрытый монтаж / Zapušená montáž / Prilegajoča namestitev / Montaje empotrado / Spolmontering / การใส่ไฟในแนวราบ / Gömme montaj

MP 25.3

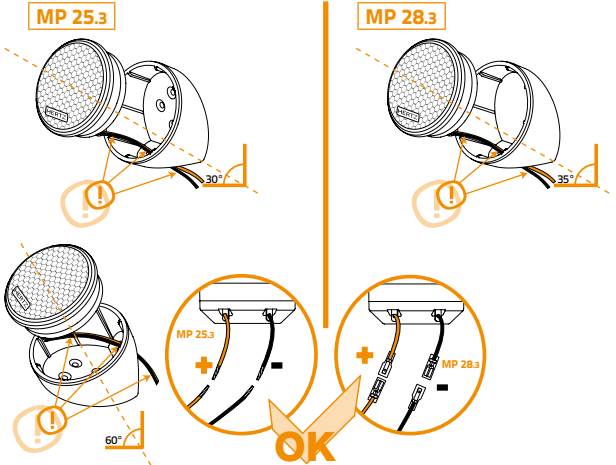


MP 28.3

L1 < L2

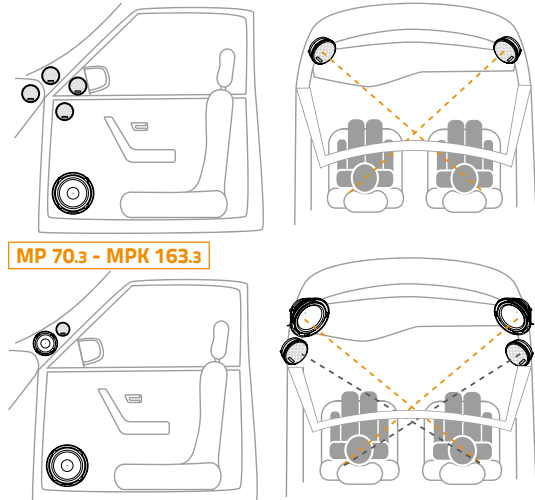


■ تثبيت الخوايير / Монтаж с болтов / 楔形安裝 / 楔形件安裝 / Montaža s klinom / Zaklinění / Wedge monterng / Montage op hellende steun / Wedge mounting / Kiilpaigaldus / Kiila-asennus / Montage avec cale / Montage der Keile / Τοποθέτηση σε κλίση / הרכבת טריז / Beszerelés ferden / Pemasangan datar / Montaggio con supporto inclinato / ウェッジマウント / 웨지 마운트 / Uzstādīšana iekšlējot / Tvirtinimo pleištu montavimas / Ekstern monterng / نصب و تعبیه و ج / Montaž klinowy / Montagem de cunha / Montaj de fixare / Клиновой монтаж / Delenā montāž / Nameštitev z zagozdo / Cuña de montaje / Kilmontering / การติดตั้งแบบ / Eğimli destek montaj



■ الطول و الزاوية المقترحة / Предложени дължина и ъгъл / 建議長度及角度 / 建议长度及角度 / Preporučena duljina i kut nagiba / Požadovaná délka a úhel / Foreslået længde og vinkel / Voorgestelde lengte en hoek / Suggested Length and Angle / Soovitav pikkus ja nurk / Suositeltu pituus ja kulma / Longueur et angle recommandés / Empfohlene Länge und Winkel / Προτεινόμενο μήκος και γωνία / הצעת אורך וחית / Javasolt hossz és szög / Panjang dan sudut terbaik / Distanze e angolazioni suggerite / 長さ・角度案 / 권장 길이 및 앵글 / Ieteicamais garums un lenķis / Rekomenduojamas ilgis ir pakreipimo kampas / Foreslått lengde og vinkel / طول و زاویه توصیه شده / Sugerowana długość i kąt / Sugestão de extensão e ângulo / Distanța recomandată și unghiul de instalare / Рекомендуемое расстояние и угол установки / Odporúčaná dĺžka a uhol / Predlagana dolžina in nagib / Longitud y ángulo sugeridos / Föreslagen längd och vinkel / להצעת אורכים וזוויות / Önerilen uzunluk ve aç

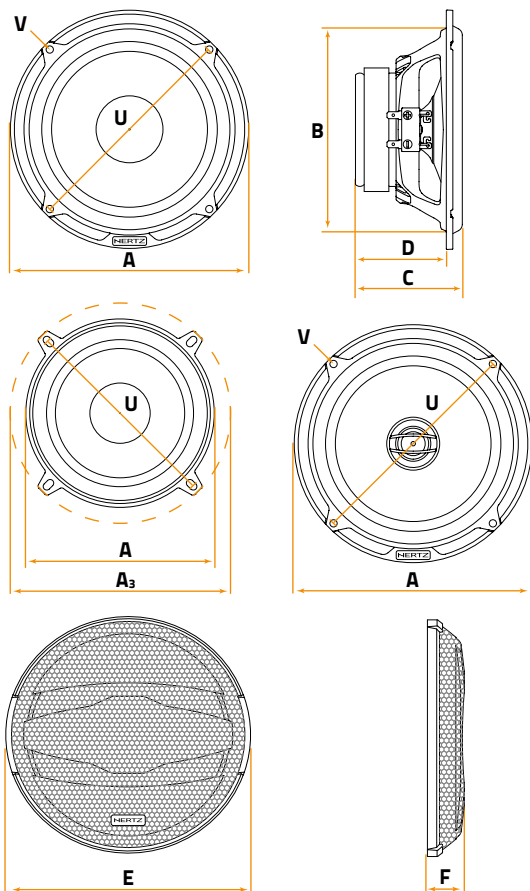
MP 25.3 - MP 28.3 - MPK 130.3 - MPK 165.3 - MPK 165P.3 - MPK 1650.3



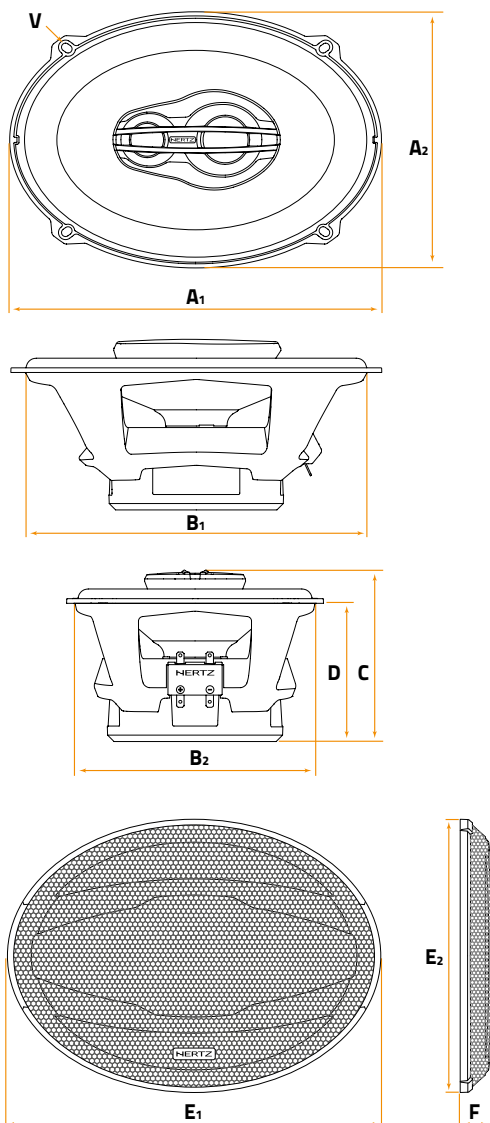
Mille

الحجم / Размер / 尺寸 / 規格 / Veličina / Velikost / Størrelse / Afmetingen / Size / Suurus / Koko / Dimensions / Größe / Διαστάσεις / اندازه / Méretek / Ukuran / Ingombro / サイズ / Мѳ / Izmērs / Dydis / Størrelse / גודל / Wielkość / Dimensão / Dimensiuni / Размер / Rozměry / Velikost / Tamaño / Storlek / ขนาด / Ebat

MP 70.3 - MPK 130.3 - MPK 165.3 - MPK 165P.3 - MPK 1650.3



	A	A ₃	B	C	D	E	F	U	V	
MP 70.3	87,8	-	73	50	44	93	17	80	3,7	mm
	3.46	-	2.87	1.97	1.73	3.66	0.67	3.15	0.15	in.
MP 130.3	130	152	114	68	57	168,5	29	139	5	mm
	5.12	5.98	4.49	2.68	2.24	6.63	1.14	5.47	0.2	in.
MP 165.3	165	-	141	74	63	183,5	29	156	5	mm
	6.5	-	5.55	2.91	2.48	7.22	1.14	6.14	0.2	in.
MP 165P.3	165	-	141	74,5	64	183,5	29	156	5	mm
	6.5	-	5.55	2.93	2.52	7.22	1.14	6.14	0.2	in.
MPX 165.3	165	-	141	74	62,2	183,5	29	156	5	mm
	6.5	-	5.55	2.91	2.46	7.22	1.14	6.14	0.2	in.

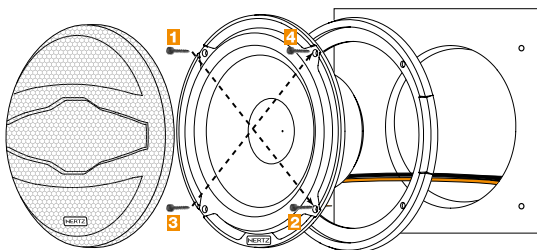
MPX 690.3


	A_1	A_2	B_1	B_2	C	D	E_1	E_2	F	V	
MPX 690.3	241	166	223	157	108	90	267,5	196	38,5	5x7	mm
	9.49	6.54	8.78	6.18	4.25	3.54	10.53	7.72	1.52	0.2x0.28	in.

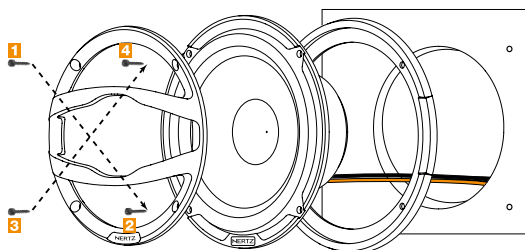
Mille

■ التثبيت / Монтаж / 安装 / 安裝 / Montaža / Montáž / Montering / Montage / Mounting / Paigaldamine / Kiinnitys / Montage / Montage / Τοποθέτηση / הרכבה / Beszerelés / Pemasangan / Montaggio / 마운트 / Uzstādīšana / Montavimas / Montering / تعبیه / Montaž / Montagem / Montaj / Монтаж / Montáž / Namestitev / Montaje / Montering / การใส่สายไฟ / Montaj

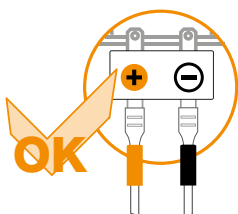
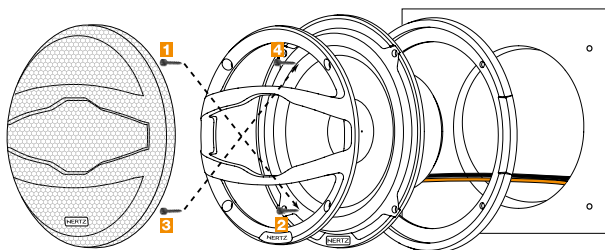
Option 1



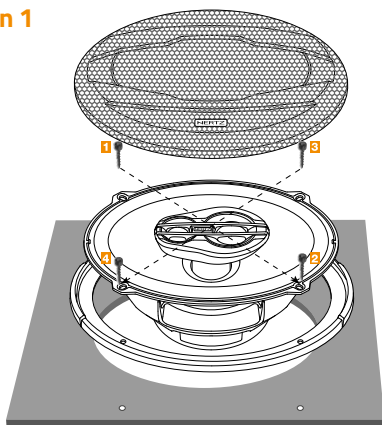
Option 2



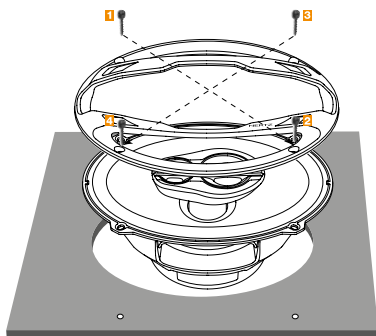
Option 3



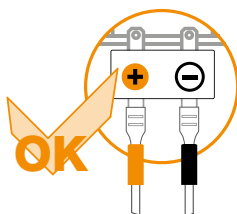
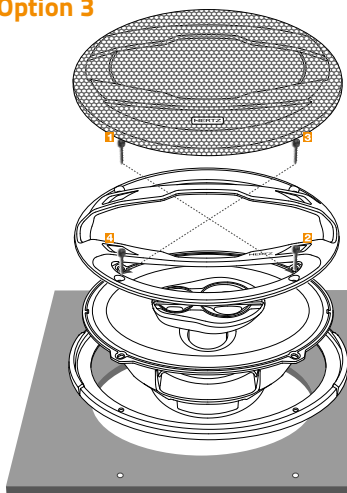
Option 1



Option 2



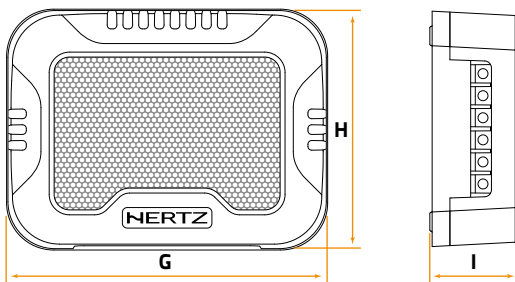
Option 3



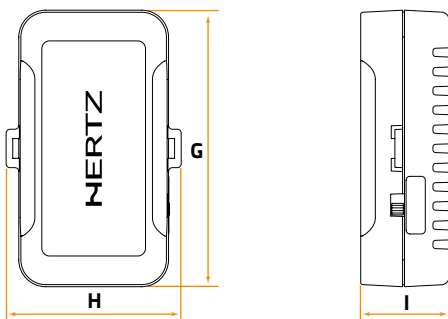
Mille

الحجم / Размер / 尺寸 / 規格 / Veličina / Velikost / Størrelse / Afmetingen / Size / Suurus / Koko / Dimensions / Größe / Διαστάσεις / اندازه / Méretek / Ukuran / Ingombro / サイズ / Ём / Izmērs / Dydis / Størrelse / גודל / Wielkość / Dimensão / Dimensiuni / Размер / Rozměry / Velikost / Tamaño / Storlek / ขนาด / Ebat

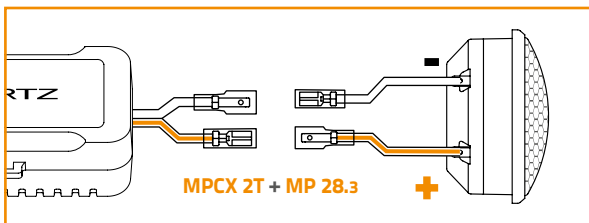
MPCX 2.3 - MPCX 2P.3 - MPCX 3.3 - MPCX 165.3



MPCX 2T.3

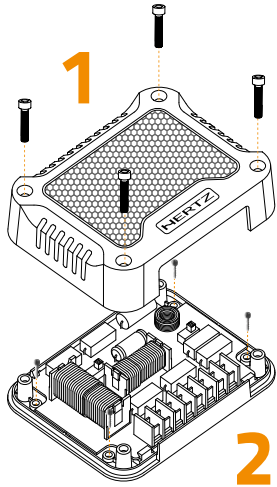


	G	H	I	
MPCX 2.3	102	76,5	37	mm
	4.02	3.01	1.46	in.
MPCX 2P.3	102	76,5	37	mm
	4.02	3.01	1.46	in.
MPCX 2T.3	72	45,6	23	mm
	2.8	1.8	0.9	in.
MPCX 3.3	145,5	114	40	mm
	5.73	4.49	1.57	in.
MPCX 165.3	145,5	114	40	mm
	5.73	4.49	1.57	in.

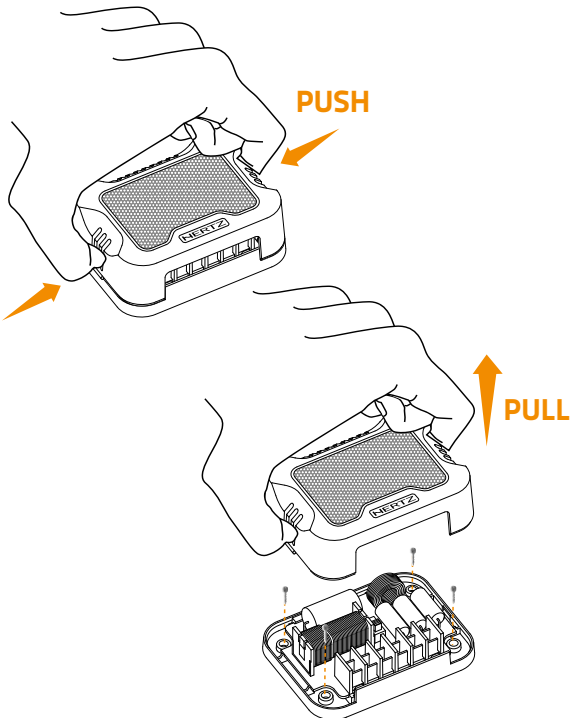


■ **النَّهْيِيْت** / Монтаж / 安装 / 安裝 / Montaža / Montáž / Montering / Montage / Mounting / Paigaldamine / Kiinnitys / Montage / Montage / Τοποθέτηση / הרכבה / Beszerelés / Pemasangan / Montaggio / マウント / 마운트 / Uzstādīšana / Montavimas / Montering / تعبیه / Montaž / Montagem / Montaj / Монтаж / Montáž / Namestitev / Montaje / Montering / การใส่สายไฟ / Montaj

MPCX 3.3 - MPCX 165.3



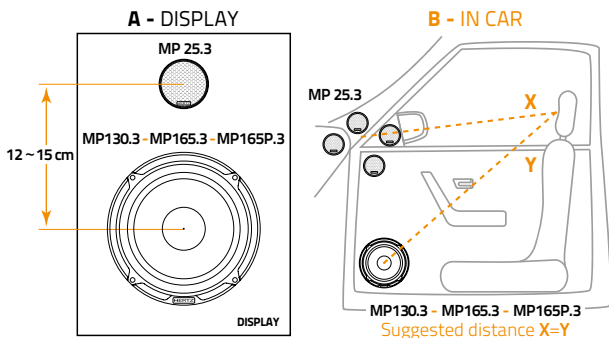
MPCX 2.3 - MPCX 2P.3



Mille

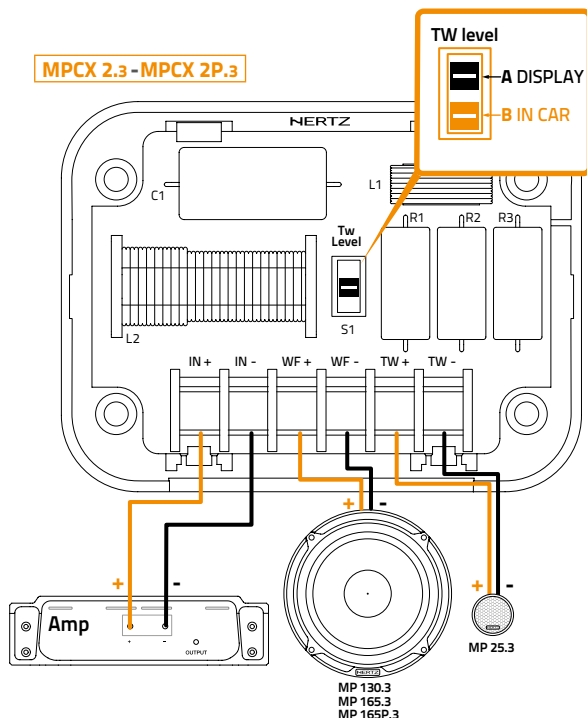
ول و الزاوية المقترحة / Свързване на системата / 連接系統 / 连接系統 / Priključivanje sustava / Pripojeni systemu / Forbinding af systemer / Aansluiten van de systemen / Connecting the systems / Süsteemi ühendamine / Järjestelmän kytkeminen / Branchement du système / System anschließen / Σύνδεση του συστήματος / חיבור המערכת / A rendszer csatlakoztatása / Menghubungkan sistem / Collegamenti dei filtri / システムの接続 / 시스템 연결 / Sistēmas pievienošana / Sistemos sujungimas / Oppkobling av systemet / هامتصل نمودن سیستم / Podłączając system / Ligar o sistema / Conexiunea sistemului / Подключение системы / Pripojenie systému / Priklučevanje sistema / Conexión del sistema / Anslut systemet / การเชื่อมต่อระบบ / Sistemin bağlanması

MPK 130.3 - MPK 165.3 - MPK 165P.3

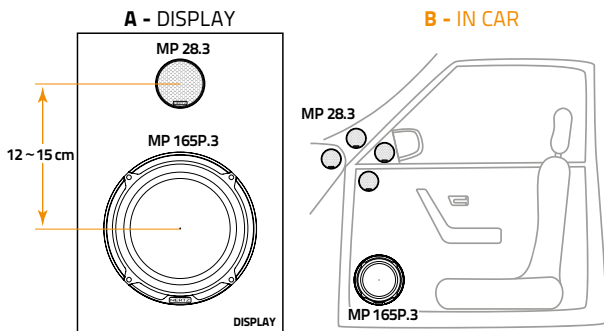


Suggested crossover set-up

MPCX 2.3 - MPCX 2P.3

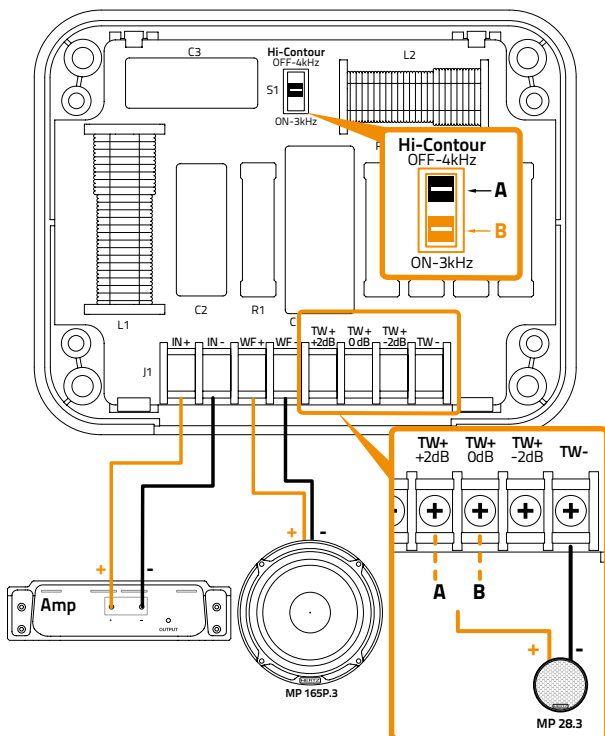


MPK 1650.3 -SET-UP



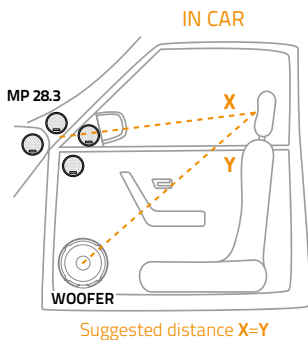
Suggested crossover set-up

MPCX 165.3



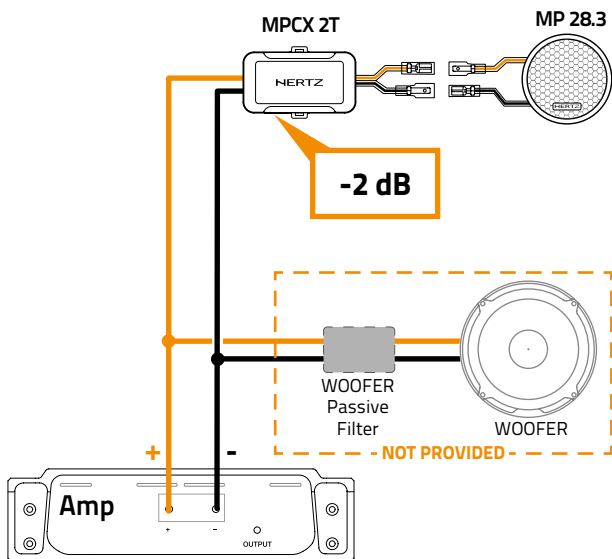
Mille

MP 28.3

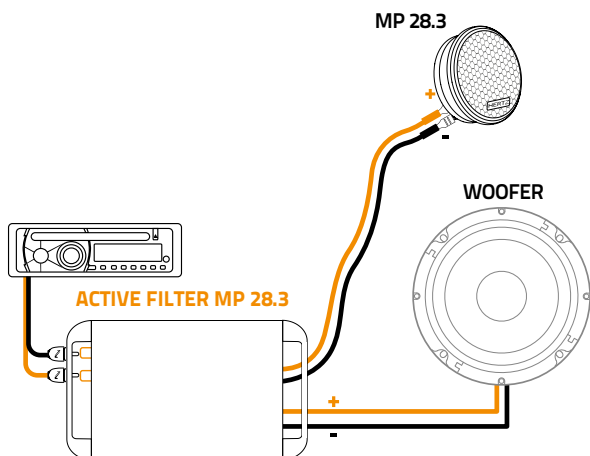


Suggested crossover set-up

PASSIVE set-up

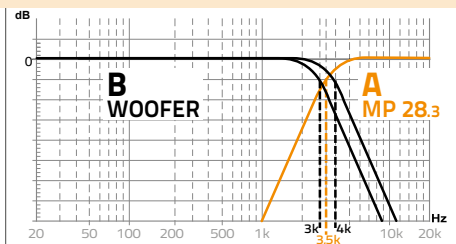


ACTIVE set-up



Suggested active filtering:

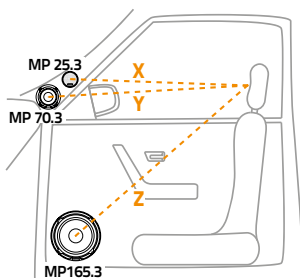
- A** { **MP 28.3:** Hi-Pass @ 3,5 kHz - 12 dB Oct.)
- B** { **Woofers:** Lo-Pass @ 3~4 kHz - 12 dB Oct.)



Mille

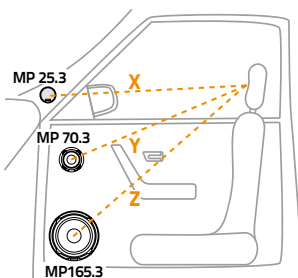
MPK 163.3

A - MPK 163.3 Mid-Tweeter on A-Pillar



Suggested distance $X=Y=Z$

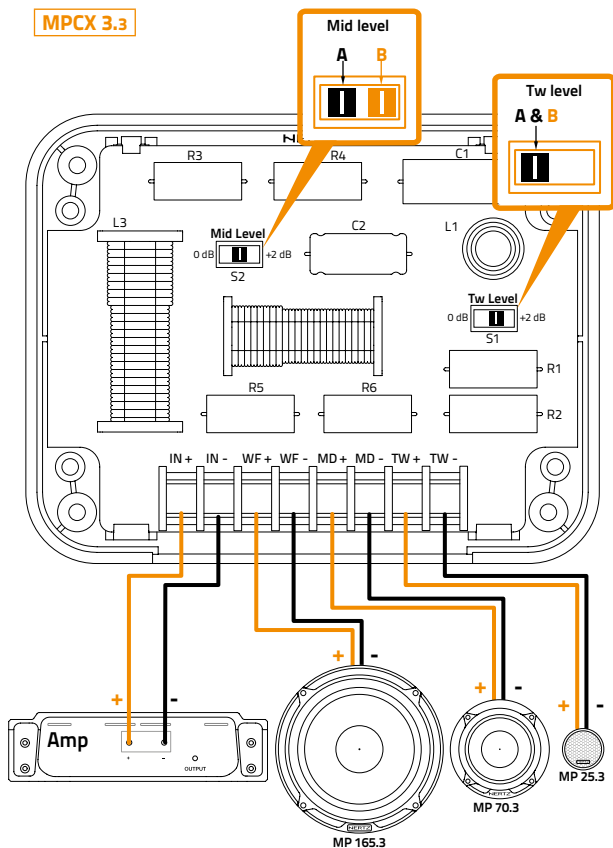
B - MPK 163.3 Midrange on the Door



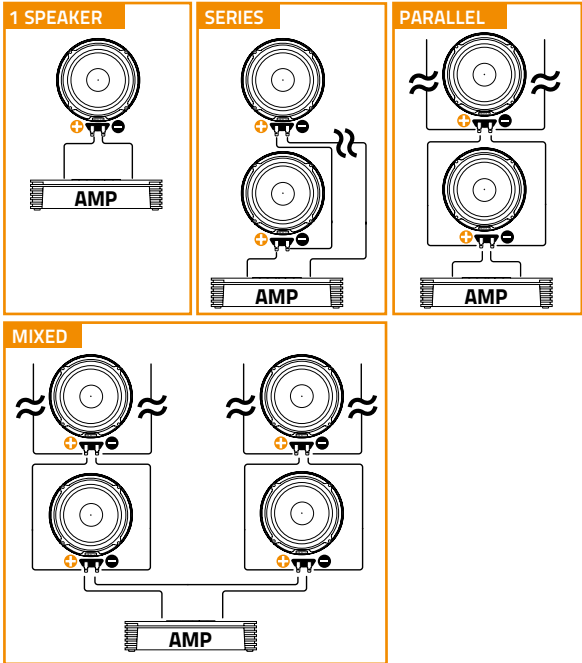
Suggested distance $X=Y=Z$

Suggested crossover set-up

MPCX 3.3



التوصيلات / Свързвания / 連接 / 连接 / Spajanje / Připojení / Forbindelser / Verbindungen / Connections / Ühendused / Kytkenät / Connexions / Verbindungen / Συνδέσεις / חיבורים / Csatlakozók / Sambungan / Conessioni / 接続 / 연결 / Savienojumi / Jungtys / Tilkoblinger / اتصالات / Połączenia / Ligações / Conectarea / Подключения / Pripojenie / Vezave / Conexiones / Anslutningar / การเชื่อมต่อ / Bağlantılar



	FREE AIR DC RES.						
		MP 25.3	MP 28.3	MP 70.3	MP 165P.3	MP 130. MP 165.3 MPX 165.3	MPX 690.3
Series	1 Speaker	3,9	3,3	3,7	2,6	3,1	3,0 Ω
	2 Speaker	7,8	6,6	7,4	5,2	6,4	6,0 Ω
	3 Speaker	11,7	9,9	11,1	7,8	9,6	9,0 Ω
	4 Speaker	15,6	13,2	14,8	10,4	12,8	12,0 Ω
Parallel	2 Speaker	2,0	1,7	1,9	1,3	1,6	1,5 Ω
	3 Speaker	1,3	1,1	1,2	0,9	1,1	1,0 Ω
	4 Speaker	1,0	0,8	0,9	0,7	0,8	0,8 Ω
Mixed	4 Speaker	3,9	3,3	3,7	2,6	3,2	3,0 Ω
	6 Speaker	2,6	2,2	2,5	1,7	2,1	2,0 Ω
	8 Speaker	2,0	1,6	1,9	1,3	1,6	1,5 Ω

المعلومات 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-akustiske parametre / پارامترهای الکتروآکوستیکی / Parametry elektro-akustyczne / Parâmetros electro-acústicos / Specificatii tehnice / Электродинамические параметры / Elektro-akustické parametre / Elektro-akustični parametri / Parâmetros electroacústicos / Elektroakustiska parametrar / อัดเสียง-อะคูสติก พารามิเตอร์ / Elektro-akústik parametreler

	Component	Size	Power handling		Impedance	Frequency response
			Peak	Continuous		
		mm (in.)	W	W	Ω	Hz
MP 25.3	Tweeter	Tweeter diaphragm 29 (1.14)	120 (Hi-Pass filtered @ 2.5 kHz - 12 dB Oct.)	-	4	1.4k ÷ 22.5k
MP 28.3	Tweeter	Tweeter diaphragm 35 (1.38)	180 (Hi-Pass filtered @ 1.8 kHz - 12 dB Oct.)	-	4	1k ÷ 28k
MP 70.3	Midrange	70 (3)	100 (Hi-Pass filtered @ 250 Hz - 12 dB Oct.)	-	4	180 ÷ 18k
MPX 165.3	Two way coaxial	Woofer 165 (6.5)	200	100	4	45 ÷ 21,5k
		Tweeter diaphragm 25 (1)				
MPX 690.3	Three way coaxial	Woofer 6x9	260	130	4	30 ÷ 24k
		Tweeter diaphragm 35 (1.5)				
		Supertweeter diaphragm 29 (1.14)				
MPK 130.3	Two way System	Woofer 130 (5)	200	100	4	60 ÷ 22,5k
		Tweeter diaphragm 29 (1.14)				
MPK 165.3	Two way System	Woofer 165 (6.5)	220	110	4	40 ÷ 22,5k
		Tweeter diaphragm 29 (1.14)				
MPK 165P.3	Two way System	Woofer 165 (6.5)	230	115	3	45 ÷ 22,5k
		Tweeter diaphragm 29 (1.14)				
MPK 163.3	Three way System	Woofer 165 (6.5)	300	150	4	40 ÷ 22,5k
		Midrange 70 (3)				
		Tweeter diaphragm 29 (1.14)				
MPK 1650.3	Two way System	Woofer 165 (6.5)	250	125	3	45 ÷ 25k
		Tweeter diaphragm 35 (1.38)				

Magnet size	Voice coil Ø	Magnet	Cone	Weight of one component
mm (in.)	mm (in.)			Kg (lb.)
24,5 x 6 x 3,5 (0.96 x 0.24 x 0.14)	25 (1)	Neodymium	Tetolon	0,065 (0.14)
27,8 x 3,5 x 3 (1.1 x 0.14 x 0.12)	28 (1.1)	Neodymium	Tetolon	0,075 (0.16)
16,8 x 2 (0.66 x 0.08) 19,7 x 5 (0.78 x 0.2)	20 (0.8)	Neodymium	Pressed-pulp cone with cotton fiber	0,17 (0.37)
90 x 45 x 17 (3.54 x 1.77 x 0.67)	36 (1.42)	High density flux ferrite	Pressed-pulp cone with cotton fiber	1,27 (2.8)
107 x 45 x 20 (4.21 x 1.77 x 0.79)	38 (1.5)	High density flux ferrite	Pressed-pulp cone with cotton fiber	2,28 (5.03)
85 x 32 x 17 (3.35 x 1.26 x 0.67)		High density flux ferrite	Pressed-pulp cone with cotton fiber	0,95 (2.09)
24,5 x 6 x 3,5 (0.96 x 0.24 x 0.14)	25 (1)	Neodymium	Tetolon	0,07 (0.15)
85 x 32 x 17 (3.35 x 1.26 x 0.67)	25 (1)	High density flux ferrite	Pressed-pulp cone with cotton fiber	1,07 (2.36)
24,5 x 6 x 3,5 (0.96 x 0.24 x 0.14)	25 (1)	Neodymium	Tetolon	0,07 (0.15)
95 x 45 x 17 (3.74 x 1.77 x 0.67)	25 (1)	High density flux ferrite	Pressed-pulp cone with cotton fiber	1,2 (2.65)
24,5 x 6 x 3,5 (0.96 x 0.24 x 0.14)	25 (1)	Neodymium	Tetolon	0,07 (0.15)
85 x 32 x 17 (3.35 x 1.26 x 0.67)	25 (1)	High density flux ferrite	Pressed-pulp cone with cotton fiber	1,07 (2.36)
16,8 x 2 (0.66 x 0.08) 19,7 x 5 (0.78 x 0.2)	20 (0.8)	Neodymium	Pressed-pulp cone with cotton fiber	0,17 (0.37)
24,5 x 6 x 3,5 (0.96 x 0.24 x 0.14)	25 (1)	Neodymium	Tetolon	0,07 (0.15)
95 x 45 x 17 (3.74 x 1.77 x 0.67)	25 (1)	High density flux ferrite	Pressed-pulp cone with cotton fiber	1,2 (2.65)
27,8 x 3,5 x 3 (1.1 x 0.14 x 0.12)	28 (1.1)	Neodymium	Tetolon	0,075 (0.16)

Mille

	Component	Specific component	Size	Crossover weight	Type - Cutoff
			mm (in.)	Kg (lb.)	
MPCX 2.3	Crossover	MP 25.3 MP 130.3 MP 165.3	102x76,5x37 (4.02x3.01x1.46)	0,16 (0.35)	3,5 kHz - 6/12 dB Oct Tweeter Level 0 / +2 dB
MPCX 2P.3	Crossover	MP 25.3 MP 165P.3	102x76,5x37 (4.02x3.01x1.46)	0,17 (0.37)	4 kHz - 6/12 dB Oct Tweeter Level 0 / +2.5 dB
MPCX 2T.3	Crossover	MP 28.3	72x45,6x33 (2.83x1.8x0.9)	0,1 (0.22)	Tweeter Hi-Pass 3,5 kHz - 12 dB Oct Tweeter Level 0 / -2 dB
MPCX 3.3	Crossover	MP 25.3 MP 70.3 MP 165.3	145,5x114x40 (5.73x4.49x1.57)	0,43 (0.94)	Woofer Lo-Pass 450 Hz - 6dB Oct Mid. Band-Pass 450 + 5,5k Hz - 6dB Oct Tweeter Hi-Pass 5,5kHz - 12dB Oct Tweeter level 0 / +2 dB Midrange level 0 / +2 dB
MPCX 165.3	Crossover	MP 28.3 MP 165P.3	145,5x114x40 (5.73x4.49x1.57)	0,37 (0.82)	Woofer Lo-Pass 12dB Oct Tweeter Hi-Pass 12dB Oct Tweeter level +2 / 0 / -2 dB Hi-Contour ON/OFF

المعلومات 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-akustiske parametre / پارامترهای الکتروآکوستیکی / Parametry elektro-akustyczne / Parâmetros electro-acústicos / Specificatii tehnice / Электроакустические параметры / Elektro-akustické parametre / Elektro-akustični parametri / Parâmetros electroacústicos / Elektroakustiska parametrar / ข้อมูลทางอะคูสติก พารามิเตอร์ / Elektro-aküstik parametreler

	MP 25.3	MP 28.3	MP 70.3	MP 130.3	MP 165.3	MP 165P.3	MPX 165.3	MPX 690.3
D mm	29	35	65	110	132	132	132	169
Xmax mm	-	-	±1,5	±2,75	±4	±4,5	±3	±4
Re Ω	3,9	3,3	3,7	3,1	3,1	2,6	3,1	3
Fs Hz	1200	900	110	90	70	75	90	50
Le mH	0,02	0,024	0,12	0,25	0,3	0,28	0,01	0,07
Vas l	-	-	1	3	9,5	8	4	24
Mms g	0,17	0,4	2,9	10,5	14,9	15,1	18,9	30
Cms mm/N	0,1	0,08	0,7	0,24	0,36	0,3	0,15	0,34
BL T•m	1,6	2	2,8	5,3	5,5	5,45	5,8	7,2
Qts	0,55	1,1	0,82	0,64	0,58	0,56	0,88	0,43
Qes	1,98	1,7	1	0,74	0,67	0,63	1,06	0,55
Qms	0,57	3,3	4,6	5,1	4,6	5,2	5,5	2
Spl dB	91	91	88	92	93	94	92	94



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