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Mille PRO

OWNER'S MANUAL
Comp - System - Coax

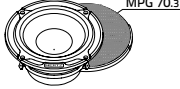
HERTZ
The Sound Experience

■ محتويات العبوة / Съдържание на опаковката / 内装物 / Sadržaj pakiranja / Obsah balení / Pakket inhoud / Packaging contents / Pakendi sisu / Pakkauksen sisältö / Contenu de l'emballage / Verpackungsinhalt / Περιεχόμενα συσκευασίας / A csomag tartalma / Isi kemasan / Contenuto dell'imballo / パッケージ内容 / 패키지 내용 / Pakuotės turinys / Zawartość opakowania / Conteúdo da embalagem / Комплектация / Qbsah balenia / Vsebina embalaže / Contenido del embalaje / Förpackningens innehåll / ส่วนประกอบผลิตภัณฑ์ / Paket içeriği

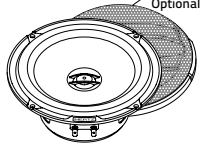
MP 25.3



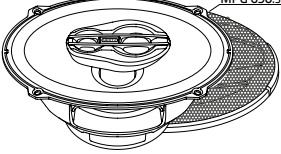
MP 70.3



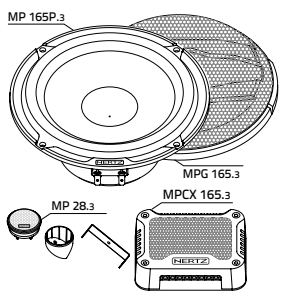
MPX 165.3



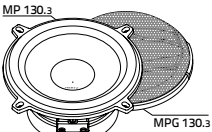
MPX 690.3



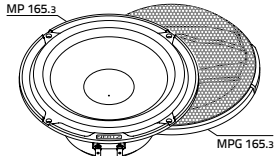
MPK 1650.3



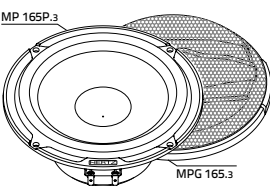
MPK 130.3



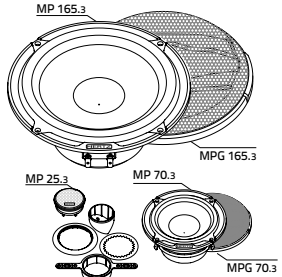
MPK 165.3



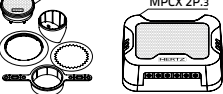
MPK 165P.3



MPK 163.3



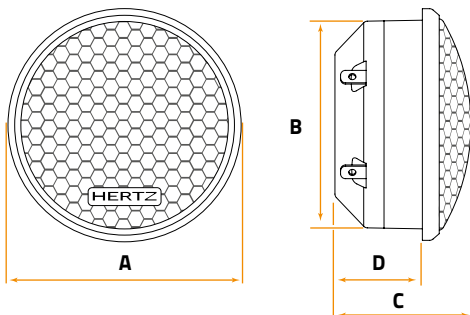
MPK 165P.3



Mille

■ الحجم / Размер / 规格 / Veličina / Velikost / Afmetingen / Size / Suurus / Koko / Dimensions / Größe / Διαστάσεις / Méretek / Ukuran / Ingombro / サイズ / 크기 / Dydis / Wielkość / Dimensão / Размер / Rozměry / Velikost / Tamaño / Storlek / عداد / Ebat

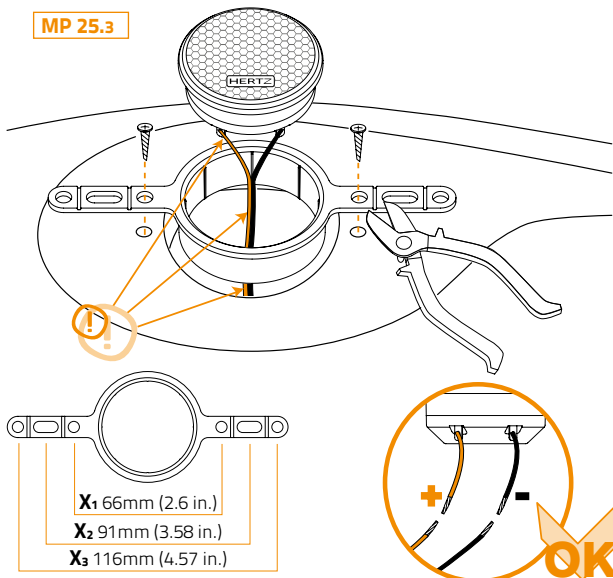
MP 25.3 / MP 28.3



	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.

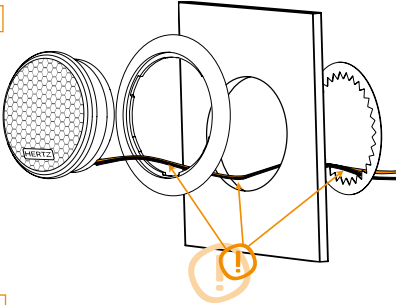
■ تثبيت قاطع الدائرة / Фабричен монтаж / 断流器安装 / Montaža u tvorničkom otvoru / Montáž do výřezu z výroby / Factory cut-out kiinnitysjärjestelmä / Factory cut-out mounting / Tehase väljalõikega paigaldamine / Factory cut-out kiinnitys / Découpage et montage en usine / Montage der vom Werk gefertigten Ausschnitte / Εργοστασιακή τοποθέτηση / Beszerelés gyárilag kialakított helyre / Pemasangan potongan pabrik / Montaggio in predisposizione / 出荷時カットアウトマウント / 공장에 설치 / Gamyklinio išjungiklio montavimas / Montaž w otworach fabrycznych / Montagem na fábrica / Монтаж по заводскому профилю / Montáž do výřezu z výroby / Namestitev s tovarniškim izrezom / Recorte en fábrica / Fabriksutskuren monterings / ติดการใส่ไฟ / Fabrika kesigine montaj

MP 25.3



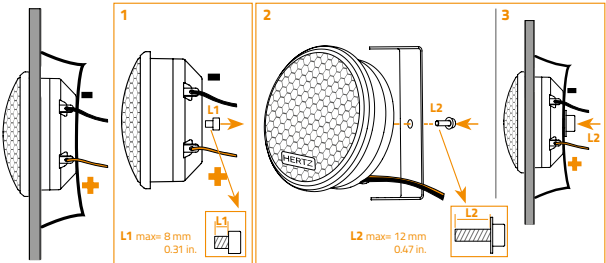
■ التثبيت على نفس المستوى / Скрыт монтаж / 嵌入裝置 / Razinska ugradnja / Montáž pod omítku / Inbouwmontage / Flush mounting / Süvispaigaldus / Asennus pinnan tasoon / Montage encastré / Einbau / Χωνευτή τοποθέτηση / Szintbe szerelés / Pemasangan di dinding langit-langit / Montaggio incassato / フラッシュマウン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

MP 25.3



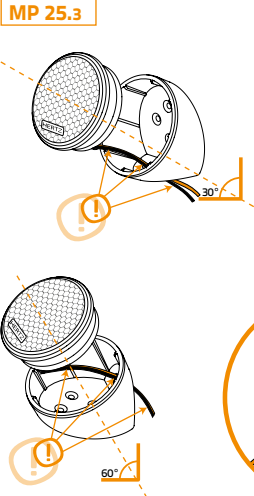
MP 28.3

L1 < L2

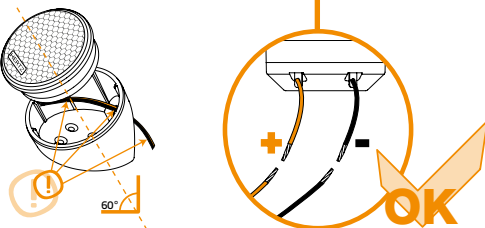
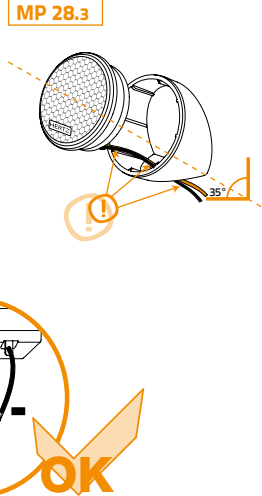


■ تثبيت الخوايير / Монтаж с болтов / 楔形件安裝 / Montaža s klinom / Zaklínění / Montage op hellende steun / Wedge mounting / Kiilpaigaldus / Kiila-asennus / Montage avec cale / Montage der Keile / Τοποθέτηση σε σурτή βάση / Beszerelés ferdén / Pemasangan datar / Montaggio con supporto inclinato / ウエッジマウント / 웨지 마운트 / Tvirtinimo pleišų montavimas / Montaż klinowy / Montagem de cunha / Клиновой монтаж / Delená montáž / Namestitev z zagozdo / Cuña de montaje / Kilmontering / จัดการใส่ไฟในแนวราบ / Egimli destek montaj

MP 25.3



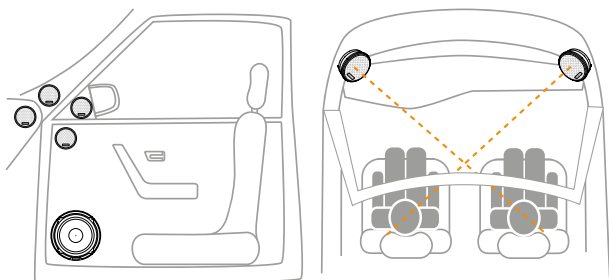
MP 28.3



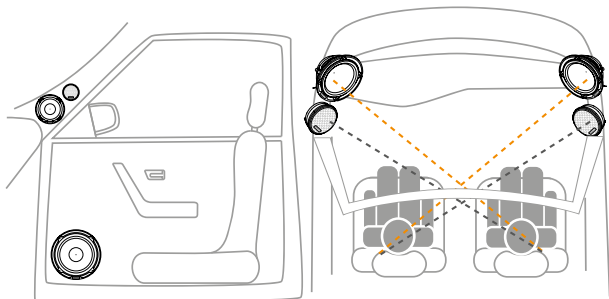
Mille

■ الطول والزاوية المقترحة / Предложени дължина и ъгъл / 建议长度及角度 / Preporučena duljina i kut nagiba / Požadovaná délka a úhel / 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 / Javasolt hossz és szög / Panjang dan sudut terbaik / Distanze e angolazione suggeriti / 長さ・角度案 / 권장 길이 및 앵글 / Rekomenduojamas ilgis ir pakreipimo kampas / Sugerowana długość i kąt / Sugestão de extensão e ângulo / Рекомендуемое расстояние и угол установки / Odporúčaná dĺžka a uhol / Predlagana dolžina in nagib / Longitud y ángulo sugeridos / Föreslagen längd och vinkel / ความยาวและมุมที่แนะนำ / Önerilen uzunluk ve aç

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

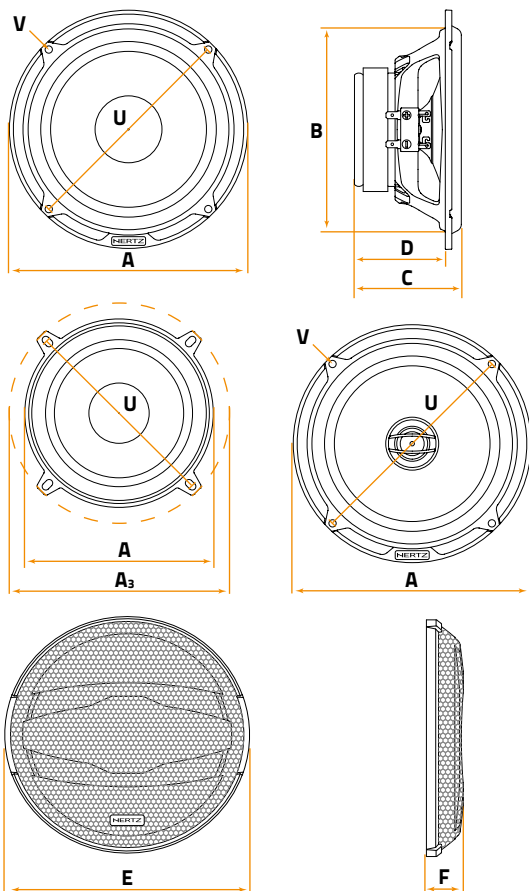


MP 70.3 - MPK 163.3



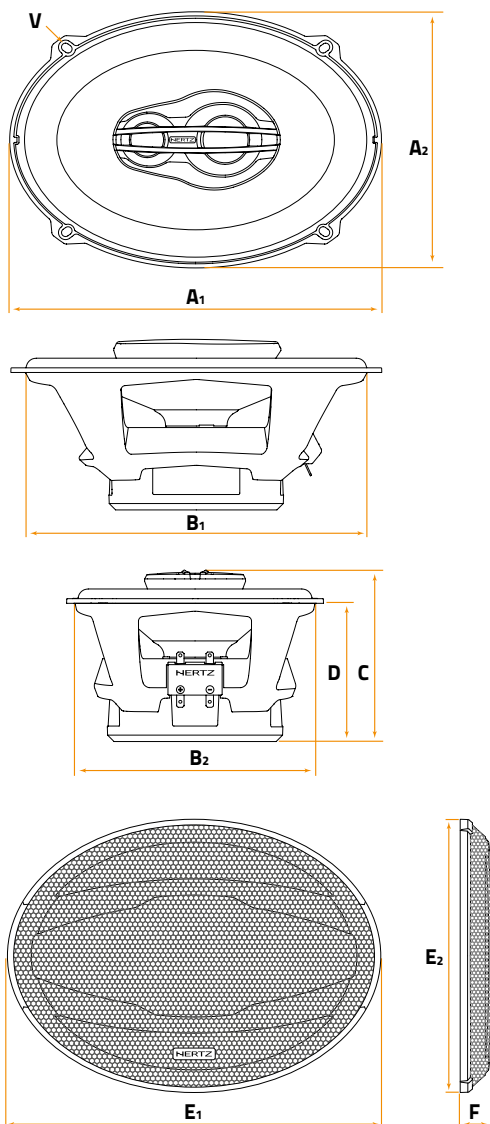
■ الحجم / Размер / 规格 / Veličina / Velikost / Afmetingen / Size / Suurus / Koko / Dimensions / Größe / Διαστάσεις / Méretek / Ukuran / Ingombro / サイズ / ヨコ / Dydis / Wielkość / Dimensão / Размер / Rozměry / Velikost / Tamaño / Storlek / عاااا / Ebat

MP 70.3 - MP 130.3 - MP 165.3 - MP 165P.3 - MPX 165.3



	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.

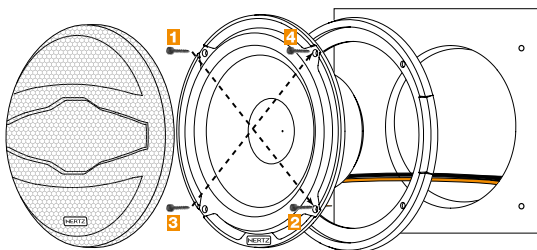
MPX 690.3



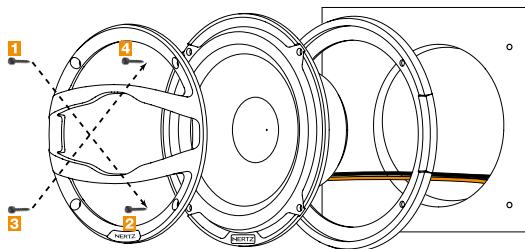
	A ₁	A ₂	B ₁	B ₂	C	D	E ₁	E ₂	F	V	
MPX 690.3	241	166	223	157	108	90	267,5	196	38,5	5x7	mm
	9.49	6.54	8.78	6.18	4.25	3.54	10.53	7.72	1.52	0.2x0.28	in.

■ **التثبيت** / Монтаж / 安装 / Montaža / Montáž / Montage / Mounting / Paigaldamine / Kiinnitys / Montage / Montage / Τοποθέτηση / Beszerelés / Pemasangan / Montaggio / マウント / 마운트 / Montavimas / Montaž / Montagem / **МОНТАЖ** / Montaž / Namestitev / Montaje / Montering / การติดตั้ง / Montaj

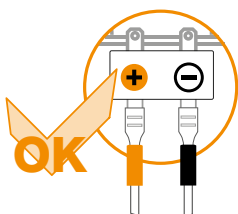
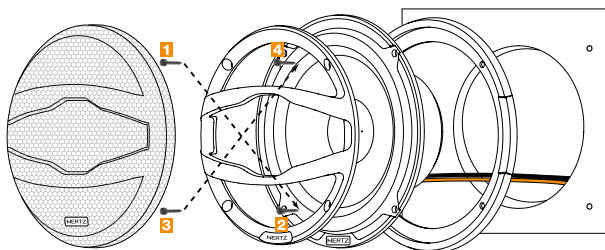
Option 1



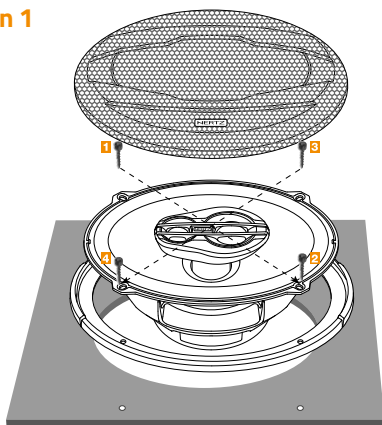
Option 2



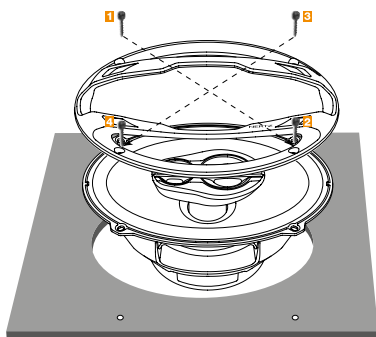
Option 3



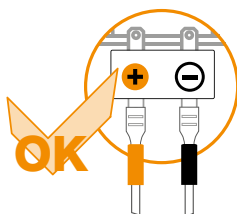
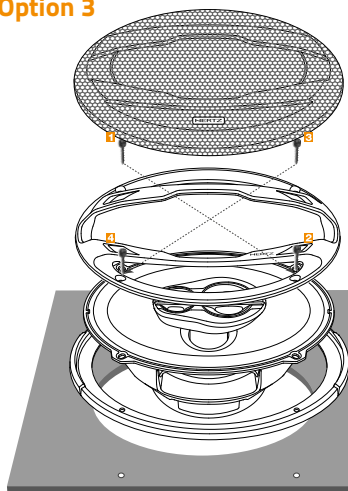
Option 1



Option 2

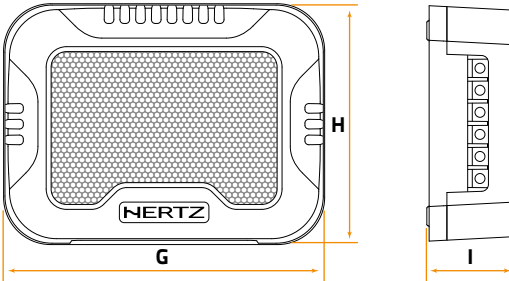


Option 3



■ الحجم / Размер / 规格 / Veličina / Velikost / Afmetingen / Size / Suurus / Koko / Dimensions / Größe / Διαστάσεις / Méretek / Ukuran / Ingombro / サイズ / ユフ / Dydis / Wielkość / Dimensão / **Размер** / Rozměry / Velikost / Tamaño / Storlek / **ขนาด** / Ebat

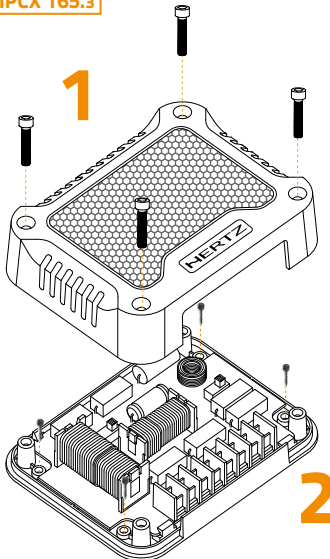
MPCX 2.3 - MPCX 2P.3 - MPCX 3.3 - MPCX 165.3



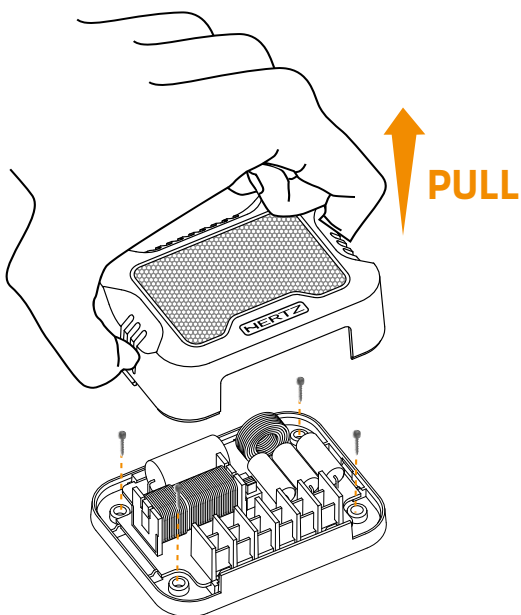
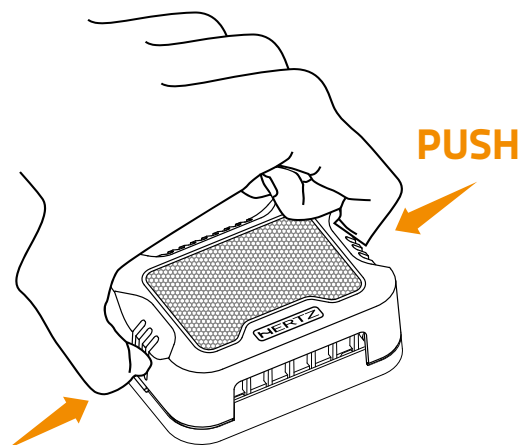
	G	H	I	
MPCX 2.3	102	76,5	37	mm
	4.02	3.01	1.46	in.
MPCX 2P.3	102	76,5	37	mm
	4.02	3.01	1.46	in.
MPCX 3.3	145,5	114	40	mm
	5.73	4.49	1.57	in.
MPCX 165.3	145,5	114	40	mm
	5.73	4.49	1.57	in.

■ التثبيت / Монтаж / 安装 / Montaža / Montāž / Montage / Mounting / Paigaldamine / Kiinnitys / Montage / Montage / Τοποθέτηση / Beszerelés / Pemasangan / Montaggio / マウント / 마운트 / Montavimas / Montáž / Montagem / **Монтаж** / Montáž / Namestitev / Montaje / **Montering** / การติดตั้ง / Montaj

MPCX 3.3 - MPCX 165.3

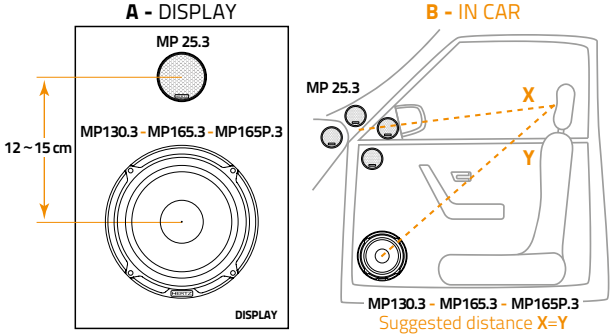


MPCX 2.3 - MPCX 2P.3



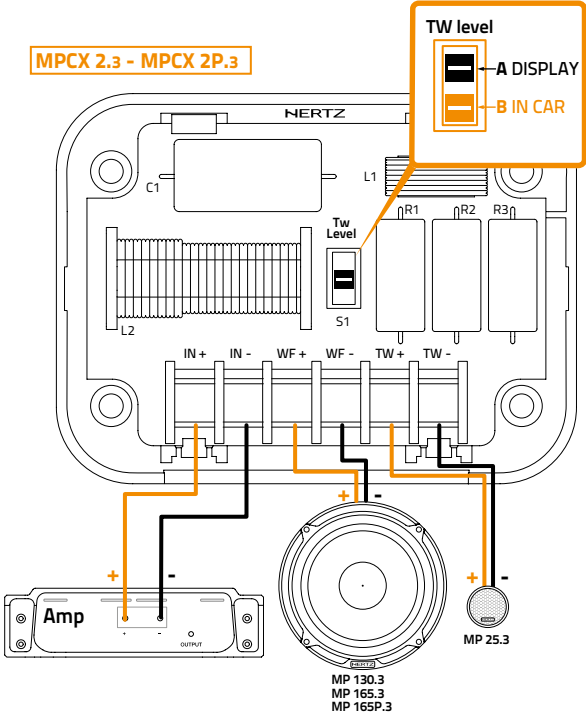
■ أول والزواوية المقترحة / Свързване на системата / 连接系统 / Priključivanje sustava / Připojení systému / Aansluiten van de systemen / Connecting the systems / Systeemi ühendamine / Järjestelmän kytkeminen / Branchement du système / System anschließen / Σύνδεση του συστήματος / A rendszer csatlakoztatása / Menghubungkan sistem / Collegamenti dei filtri / システムの接続 / 시스템 연결 / Sistemios sujungimas / Podłączając system / Ligar o sistema / Подключение системы / Pripojenie systému / Priključevanje sistema / Conexión del sistema / Anslut systemet / การเชื่อมต่อระบบ / Sistemini bağlanması

MPK 130.3 - MPK 165.3 - MPK 165P.3



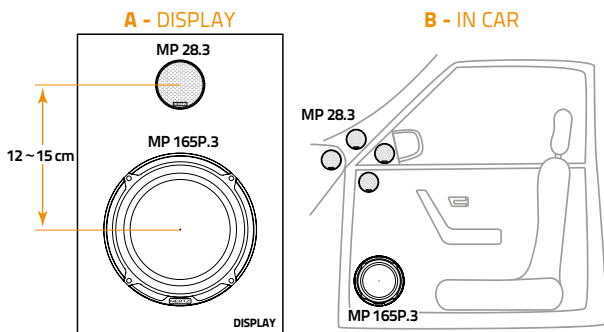
Suggested crossover set-up

MPCX 2.3 - MPCX 2P.3



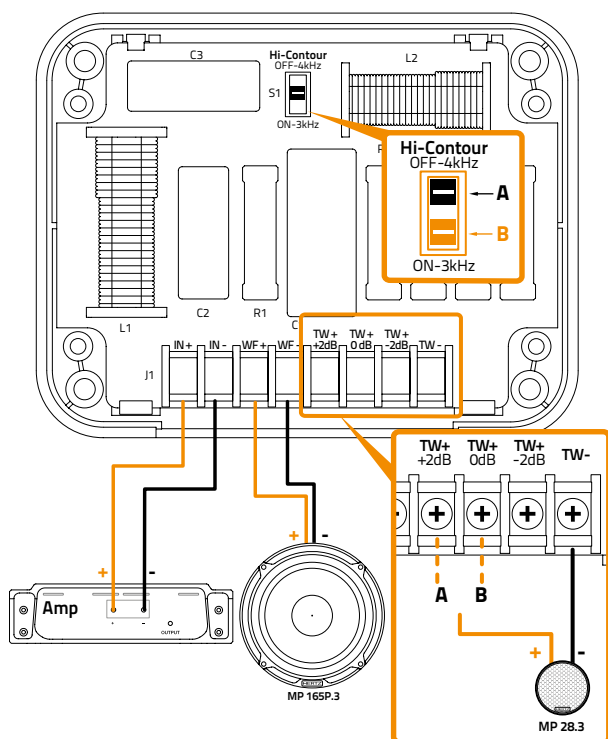
Mille

MPK 1650.3 - SET-UP



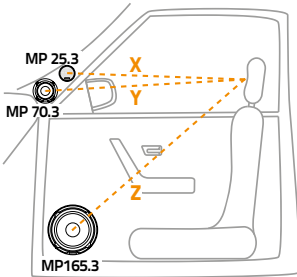
Suggested crossover set-up

MPCX 165.3



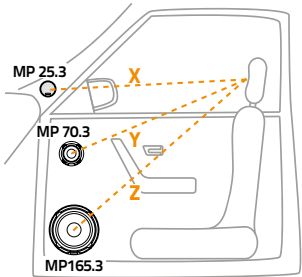
MPK 163.3

A - MPK 163.3 Mid-Tweeter on A-Pillar



Suggested distance $X=Y=Z$

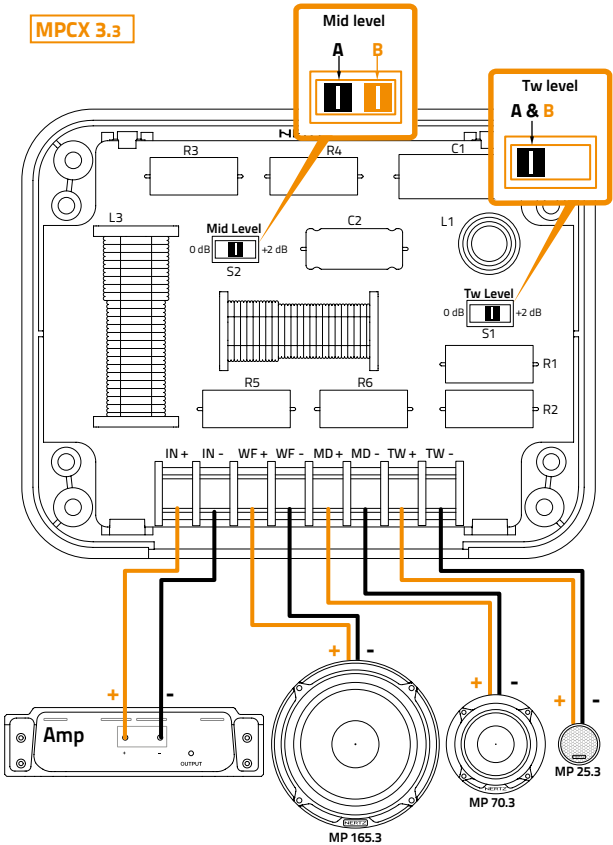
B - MPK 163.3 Midrange on the Door



Suggested distance $X=Y=Z$

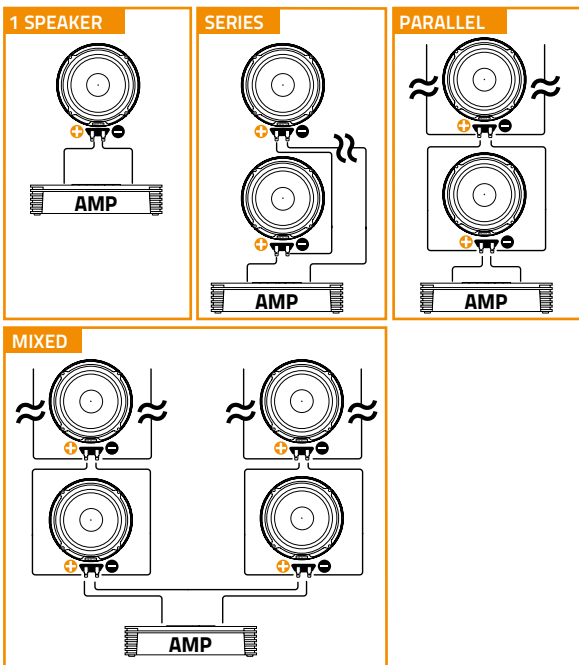
Suggested crossover set-up

MPCX 3.3



Mille

■ التوصيلات / Свързвания / 连接 / Spajanje / Pripojení / Verbindungen / Connections / Ühendused / Kytkenät / Connexions / Verbindungen / Συνδέσεις / Csatlakozók / Sambungan / Connessioni / 接続 / 연결 / Jungtys / Połączenia / Ligações / Подключения / Pripojenie / Vezave / Conexiones / Anslutningar / การเชื่อมต่อ / Bağlantılar



FREE AIR DC RESISTANCE		MP 25.3 MP 28.3	MP 70.3	MP 165P.3	MP 130.3 MP 165.3 MPX 165.3	MPX 690.3	
Series	1 Speaker	3,9	3,7	2,6	3,1	3,0	Ω
	2 Speaker	7,8	7,4	5,2	6,4	6,0	Ω
	3 Speaker	11,7	11,1	7,8	9,6	9,0	Ω
	4 Speaker	15,6	14,8	10,4	12,8	12,0	Ω
Parallel	2 Speaker	2,0	1,9	1,3	1,6	1,5	Ω
	3 Speaker	1,3	1,2	0,9	1,1	1,0	Ω
	4 Speaker	1,0	0,9	0,7	0,8	0,8	Ω
Mixed	4 Speaker	3,9	3,7	2,6	3,2	3,0	Ω
	6 Speaker	2,6	2,5	1,7	2,1	2,0	Ω
	8 Speaker	2,0	1,9	1,3	1,6	1,5	Ω

المعلومات الكهرو صوتية / Электро-акустични параметри / 电声参数 / Elektro-akustički parametri / Elektroakustické parametry / Elektro-akoestische parameters / Electro-Acoustic parameters / Elektroakustilised parameetrid / Sähköakustiset parametrit / Paramètres électro-acoustiques / Elektro-akustische Parameter / Ηλεκτρο-ακουστικές παράμετροι / Elektro-akusztikus paraméterek / Parameter elektro-akustik / Parametri elettroacustici / 電気音響パラメータ / 전자 어쿠스틱 파라미터 / Elektriniai -akustiniai parametrai / Parametry elektro - akustyczne / Parâmetros electro-acústicos / Электроакустические параметры / Elektro-akustické parametre / Elektro-akustični parametri / Parâmetros electroacústicos / Elektroakustiska parametrar / อิเล็กโทร-อคูสติกพารามิเตอร์ / Elektro-akústik 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

المواصفات الفنية / Технически спецификации / 技术规格 / Tehnički podaci / Technické údaje / Technische specificaties / Technical specifications / Tehnilised andmed / Tekniset tiedot / Caractéristiques techniques / Technische daten / Τεχνικά χαρακτηριστικά / Műszaki adatok / Spesifikasi teknis / Specifiche tecniche / 技術仕様 / 기술 사양 / Techniniai duomenys / Szczegóły techniczne / Especificações técnicas / Технические условия / Technické informácie / Tehnične specifikacije / Especificaciones técnicas / Tekniska specifikationer / ความต้องการทางเทคนิค / Teknik veriler

	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 (1.8)	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)

	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 (4.02 x 3.01 x 1.46)	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 (4.02 x 3.01 x 1.46)	0,17 (0.37)	4 kHz - 6/12 dB Oct Tweeter Level 0 / +2.5 dB
MPCX 3.3	Crossover	MP 25.3 MP 70.3 MP 165.3	145,5x114x40 (5.73 x 4.49 x 1.57)	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 (5.73 x 4.49 x 1.57)	0,37 (0.82)	Woofer Lo-Pass 12dB Oct Tweeter Hi-Pass 12dB Oct Tweeter level +2 / 0 / -2 dB Hi-Contour ON/OFF

Note

■ 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.

All Specifications Subject to Change Without Notice

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