

CONTROLLED PERFORMANCE SERIES

INSTALLATION GUIDE

GUIDE PRODUIT & INSTALLATION

MANUALE DEL PRODOTTO E DI INSTALLAZIONE

PRODUKT- UND INSTALLATIONSHANDBUCH

GUÍA DE INSTALACIÓN Y DEL PRODUCTO

GUIA DO PRODUTO E INSTALAÇÃO

PRODUCT- EN INSTALLATIEHANDLEIDING

产品和安装指南

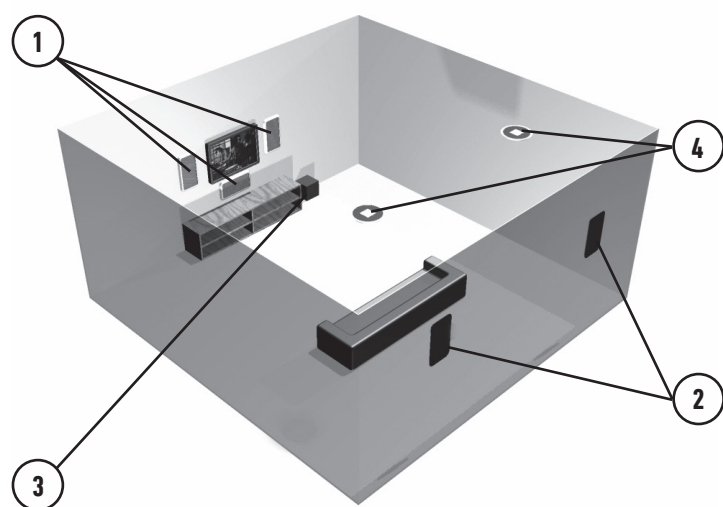
РУКОВОДСТВО ПО УСТАНОВКЕ И ЭКСПЛУАТАЦИИ



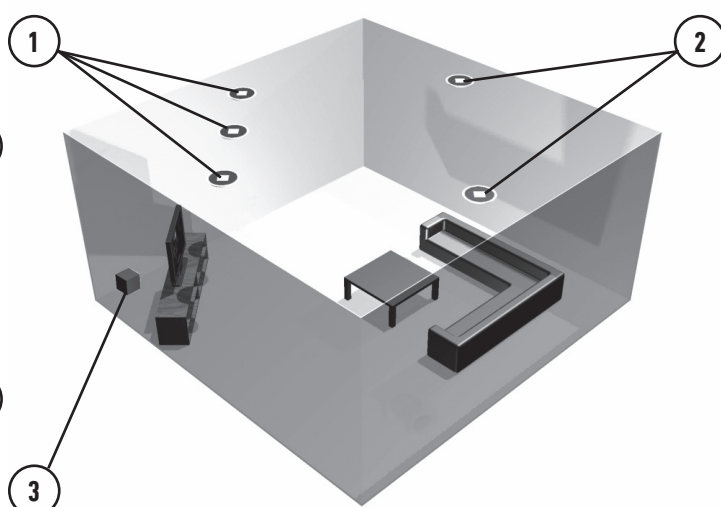
Theatre Systems

You can use your Controlled performance speakers to make up full surround systems, these can be In-Wall, In-Ceiling or a mixture. Other Monitor Audio speakers such as bookshelf or floorstanders can also be used. For perfect transition across front, side and rear sound stages we would recommend using a suggested range from our website, these will be the closest tonal match to your Custom Performance speakers.

In-Wall 5.1 Theatre



In-Ceiling 5.1 Theatre

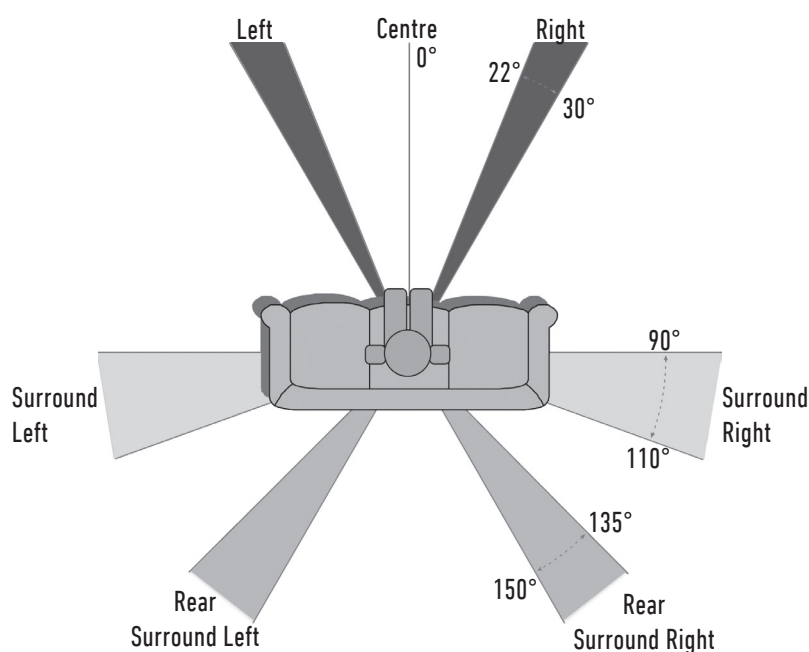


1. Front Left-Centre-Right main loudspeakers
2. Rear Left-Right surround loudspeakers
3. Add your choice of Monitor Audio subwoofer to complete the theatre
4. You can use in-wall front IDC loudspeakers with in-ceiling left-right surrounds if desired

6.1 and 7.1 Theatres:

Use three surround loudspeakers for 6.1 theatres and use four surround loudspeakers for 7.1 theatres.

Optimum Speaker Positioning

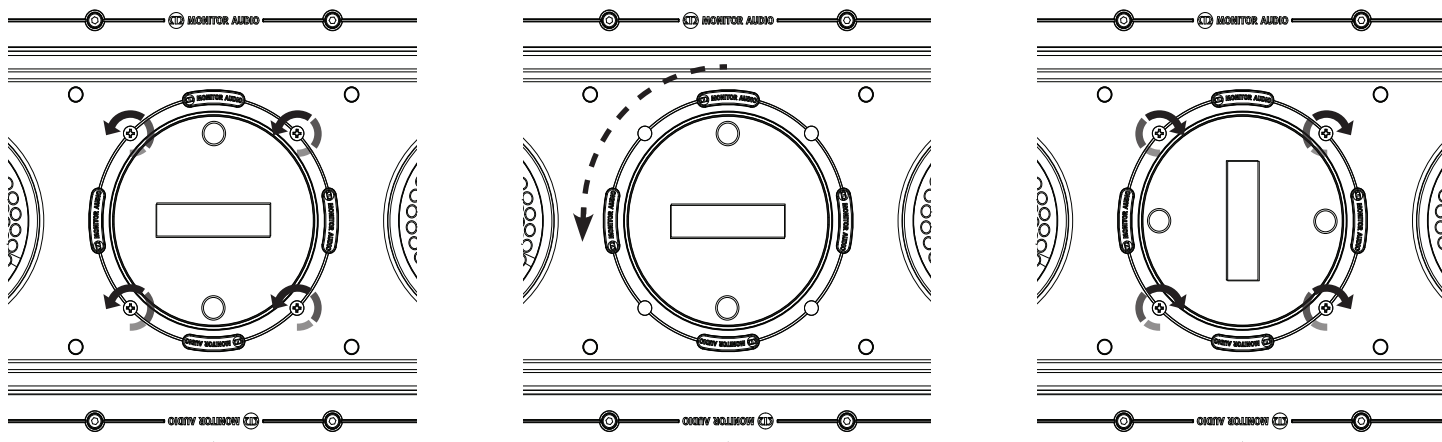


Speaker Orientation (IW260X and IW460X)

The IW260X and IW460 can both be used in either portrait or landscape orientation should you wish to use the speaker as a centre channel.

Since the IW260X uses a domed tweeter no adjustments are required however for the IW460X, which uses a C-CAM Ribbon Transducer, an innovative H.F rotating system has been added to switch orientation. This is to ensure the ribbon runs at optimum performance in either position.

To rotate the IW460X tweeter simply remove the four screws surrounding the tweeter housing, then use the recesses in the grille mesh to rotate the tweeter. With the speaker terminals towards you a single 90 ° turn anti-clockwise will switch the tweeter for centre channel use.



Painting the Grilles



NOTE: If choosing to paint the grille, we recommend you follow these simple steps:

1. Remove the membrane scrim from the inside of the grille.
2. Paint all grilles required for the installation with the same batch of paint (if they are to be the same colour). Spray paint is easier to apply or use a stippling action when brushing to avoid blocking the holes of the grille.
3. When dry, attach the spare membrane scrim (supplied) into the inside of the grille.
4. Fit the grille to the speaker (s).

Prior to Fitting the Custom Install Series Speakers



CAUTION: These Custom Install loudspeakers can only be fixed into plasterboard (dry-lined) or suspended ceilings/ walls with a thickness of up to 45mm (1 3/4"). Solid wall installation will require channelling out and frame work constructed to provide a structure for the Tri-Grip® dog legs to clamp to. For safety reasons, if you are unsure of your ability to provide a secure and safe fixing, do not attempt to fix these speakers, please obtain the services of a competent and qualified trades person.



CAUTION: Ensure that there are no water pipes or electricity cables running within the wall structure before cutting the speaker apertures. Work from secure steps and avoid trailing wires.

Over Tightening Warning

Attention installers:

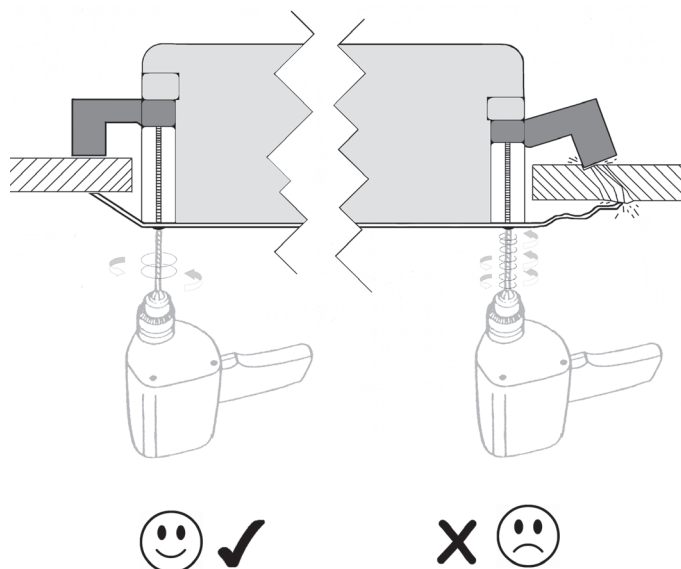
Do not over-tighten the Tri-Grip Dog Leg clamps. Over tightening the clamping mechanism on any in ceiling/ in wall speaker can result in damage to the speaker mounting hardware, ceiling/ wall or speaker frame, and/ or deflection in the speaker frame during installation.

If you notice any of the above during installation, you have over tightened the Tri-Grip dog leg. Back off the mounting screw until deflection is reduced to allow the product to sit firmly against the ceiling / wall.



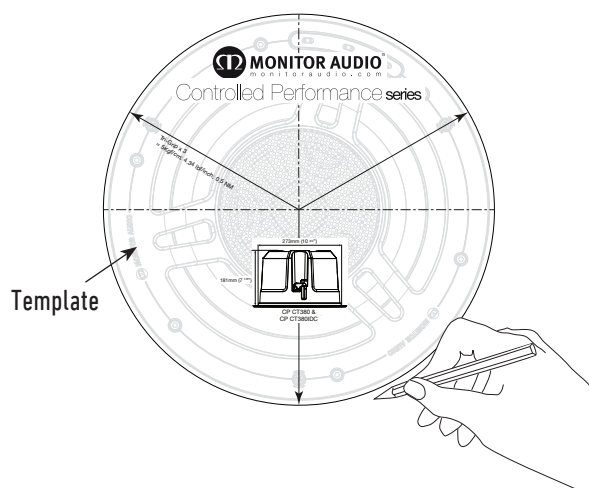
Do not exceed 5Kgf/cm (4.34 lbf/inch.) or 0.5 NM when tightening the Tri-Grip dog leg screws.

When are using a cordless screwdriver/ drill to install this product ensure the clutch is set to it's lowest setting to avoid from over-tightening and damaging the mounting hardware.

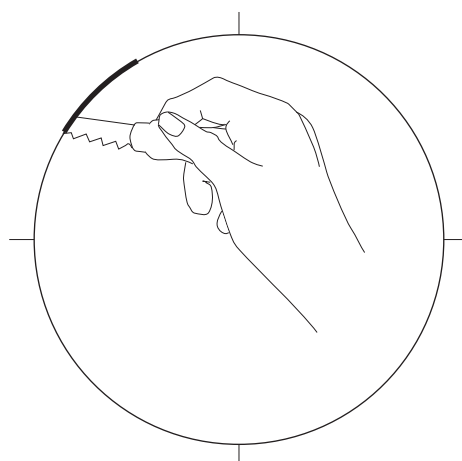


Fitting the Controlled Performance Loudspeakers

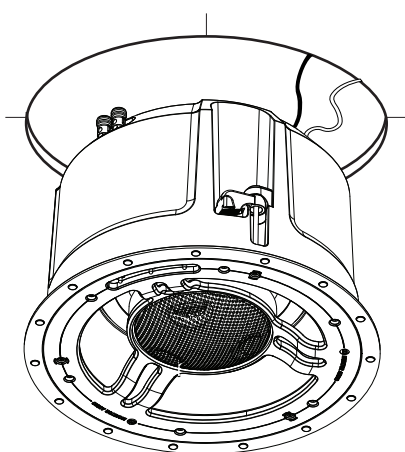
- 1** Draw around template and mark centre lines if necessary.



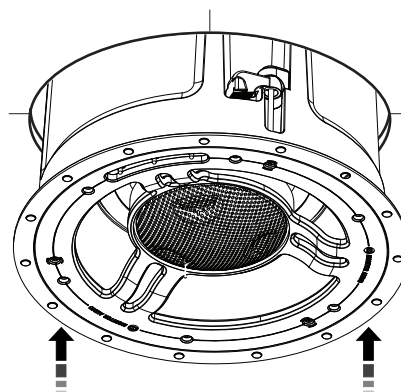
- 2** Cut around marked line.



- 3** Connect speaker cables by pushing down on the terminals and clamping the bare wire in the through hole.



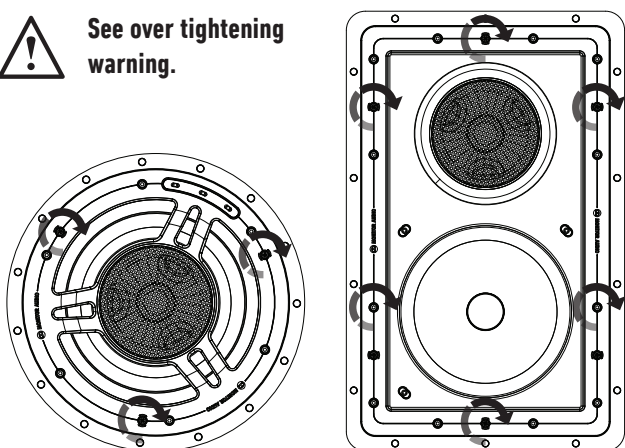
- 4** Guide speaker into cut out.



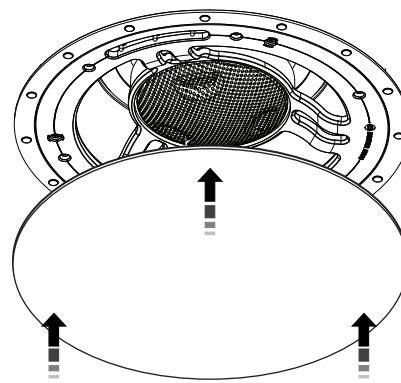
- 5** Tighten 3 Tri-Grip screws on the in ceiling models or the 6 Tri-Grip screws on the in wall models.



See over tightening warning.



- 6** Fit grilles. They are held in place magnetically and should 'snap' into place.



Speaker Controls

High Frequency Level Adjust

With the HF setting on the '0' position, the speaker will give you a neutral sound with no additional adjustments made. Switching to the '+db' position will give the high frequencies a boost, giving you more clarity and presence in the treble while switching to the '-db' will do the opposite. This position can be useful if you want more prominence in the bass frequencies.

Mid Frequency Level Adjust

With the Mid setting on the '0' position, the speaker will give you a neutral sound with no additional adjustments made. Switching to the '+db' position will give the Mid frequencies a boost, giving you warmer sound with more presence in the vocal register while switching to the '-db' will do the opposite.

Boundary Compensation Switch

When a speaker is placed near a corner or wall it can sometimes make the bass too 'boomy' as low frequencies reflect off the nearby surfaces. If the bass is too 'boomy' for your liking then, like a port bung, the Boundary Compensation switch can be used to dampen the bass being produced by the speaker.

NOTE: As with all audio, the settings you chose to use are subject to your own personal tastes and the affect your room has on the acoustics. Experimentation is strongly advised to find the best setting for you.

In-Ceiling Specifications

	CP-CT150	CP-CT260	CP-CT380	CP-CT380IDC
Frequency Response	75Hz - 25kHz	66Hz - 25kHz	50Hz - 25kHz	50Hz - 30kHz
Impedance	6 Ohms	6 Ohms	6 Ohms	6 Ohms
Sensitivity (1W@1m)	85dB	88dB	89dB	89dB
Maximum SPL	102.8dBA	106.9dBA	109.6dBA	109.6dBA
Power Handling (RMS)	50W	65W	120W	120W
Recommended Amp Requirements	20 - 50W	20 - 65W	30 - 120W	30 - 120W
Crossover Frequency / Slope	2.8kHz @ 12dB/ Octave	2.6kHz @ 12dB/ Octave	2.5kHz @ 12dB/ Octave	Low Pass: 300Hz @ 6dB/ Octave Mid: 300Hz @6dB/Octave Treble: 3kHz @ 12dB/Octave
Drive Unit Complement	1x 5" MMP®II bass driver. 1 x 1" (25mm) C-CAM® pivoting gold dome tweeter	1x 6" C-CAM cone bass driver. 1 x 1" (25mm) C-CAM pivoting gold dome tweeter	1x 8" C-CAM cone bass driver featuring RST 1 x 1" (25mm) C-CAM pivoting gold dome tweeter	1x 8" C-CAM cone bass driver featuring RST. Dual concentric module housing:- 1 x 4" C-CAM 'inverted' mid-range driver 1 x 1" (25mm) C-CAM gold dome tweeter
Adjustment Controls	+3db / 0dB / -3dB High Frequency Level switch	+3db / 0dB / -3dB High Frequency Level switch & Boundary compensation switch	+3db / 0dB / -3dB High Frequency Level switch & Boundary compensation switch	+3db / 0dB / -3dB High Frequency Level switch, +3db / 0dB / -3dB mid-range level switch, Boundary compensation switch
Overall Diameter	250mm (9 13/16")	285mm (11 1/4")	309mm (12 3/16")	
Overall Depth	155mm (6 1/8")		187mm (7 3/8")	
Cut Out Diameter	212mm (8 3/8")	244mm (9 5/8")	274mm (10 13/16")	
Mounting Depth	151mm (5 15/16")		172.8mm (7 1/8")	
Fixing Type	3 Position Tri Grip® Dog Leg Fixings			
Construction Material	Mineral Filled ABS Plastic (RoHS2 Compliant)			
Pre construction Bracket	CB6 (Purple)	CB8 (Green)	CB10 (Light Brown)	
Weight	4lb 12oz (2.14kg)	6lb 2oz (2 kg)	8lb 4oz (3.74kg)	9lb 8oz (4.3kg)

In-Wall Specifications

	CP-WT150	CP-WT260	CP-WT380	CP-WT380DC	CP-IW260X	CP-IW460X	CP-WT140LCR	CP-WT240LCR
Frequency Response	75Hz-25kHz	65Hz - 25kHz	50Hz - 25kHz	50Hz - 30kHz	50Hz - 30kHz	50Hz - 60kHz	60Hz - 25kHz	60Hz - 25kHz
Impedance	6 Ohms	6 Ohms	6 Ohms	6 Ohms	6 Ohms	6 Ohms	6 Ohms	6 Ohms
Sensitivity (1W@1m)	85dB	88dB	89dB	89dB	89dB	89dB	88dB	88dB
Maximum SPL	102.8dBA	106.9dBA	109.6dBA	109.6dBA	113.8dBA	113.8dBA	108.8dBA	108.8dBA
Power Handling (RMS)	50 W	65W	120W	120W	150	150W	100W	100W
Recommended Amp Requirements	20-50 W	20 - 65W	30-120W	30 - 120W	60-150W	60-150W	20 - 100W	20 - 100W
Crossover frequency / Slope	2.8kHz @ 12dB/ Octave	2.6kHz @ 12dB/ Octave	2.5kHz @ 12dB/ Octave	Low Pass: 300Hz @ 6dB/ Octave Mid: 300Hz @ 6dB/Octave Treble: 3kHz @ 12dB/Octave	L.F - 500Hz @ 12dB/Octave M.F -500Hz @ 12dB/Octave. 3kHz @ 18dB/Octave H.F - 3kHz @ 18dB/Octave	L.F - 500Hz @ 12dB/Octave M.F -500Hz @ 12dB/Octave. 3kHz @ 18dB/Octave H.F - 3kHz @ 18dB/Octave	2.6kHz @ 12dB/ Octave	2.6kHz @ 12dB/ Octave
Drive Unit Complement	1 x 5" MMP-II® bass driver, 1 x 1" (25mm) C-CAM® pivoting gold dome tweeter	1 x 6" C-CAM® bass driver, 1 x 1" (25mm) C-CAM pivoting gold dome tweeter	1 x 8" C-CAM bass driver featuring RST 1 x 1" (25mm) C-CAM pivoting gold dome tweeter	1 x 8" C-CAM bass driver featuring RST Dual concentric module housing:- 1 x 4" C-CAM 'inverted' mid-range driver 1 x 1" (25mm) C-CAM gold dome tweeter	2 x 6.5" C-CAM Bass drivers 2 x 4" C-CAM Bass drivers 1 x 25mm (1") C-CAM Gold Dome tweeter	2 x 6.5" C-CAM Bass drivers with RST cone technology 2 x 4" C-CAM Bass drivers with RST cone technology 1 x C-CAM High Frequency Ribbon transducer	2 x 4" MMP1I cone bass drivers in M-T-M configuration. 1 x 1" (25mm) C-CAM pivoting gold dome tweeter	2 x 4" C-CAM cone bass drivers in M-T-M configuration. 1 x 1" (25mm) C-CAM pivoting gold dome tweeter
Adjustment Controls	+3db / 0dB / -3dB High Frequency Level switch	+3db / 0dB / -3dB High Frequency Level switch & Boundary Compensation switch	+3db / 0dB / -3dB High Frequency Level switch & Boundary Compensation switch	+3db / 0dB / -3dB High Frequency Level switch, +3db / 0dB / -3dB Mid-range Level switch & Boundary Compensation switch	Boundary Compensation (On/Off) MF Level: +1/0/-1 (dB) HF Level: +1/0/-1 (dB)	Boundary Compensation (On/Off) MF Level: +1/0/-1 (dB) HF Level: +1/0/-1 (dB)	+3db / 0dB / -3dB High Frequency Level switch	+3db / 0dB / -3dB High Frequency Level switch & Boundary Compensation switch
Overall Dimensions (Inc. Grille)	360.5 x 242mm (14 3/16" x 9 1/2")	415 x 262.5mm (16 5/16 x 10 5/16")	472.5 x 303.5mm (18 5/8 x 11 15/16")	907 x 303.5mm (35 11/16" x 10 1/8")	907 x 257 mm (35 11/16" x 10 1/8")	217 x 333 mm (8 9/16 x 13 1/16")		
Overall Depth	102mm (4")			106mm (4 3/16")		102mm (4")		103mm (4 1/16")
Cut Out Dimensions	326 x 207mm (12 13/16 x 8 1/8")	381 x 228mm (15 x 9")		438 x 269mm (17 1/4 x 10 9/16")		880 x 230mm (34 5/8" x 9 1/16")		183 x 279mm (7 3/16 x 11 3/16")
Mounting Depth	96mm (3 3/4")			99mm (3 7/8")		96mm (3 3/4")		97mm (3 13/16")
Fixing Type	6 position Tri-Grip® dog fixings		6 position Tri-Grip® dog fixings		10 position Tri-Grip® dog fixings		4 position Tri-Grip® dog fixings	
Construction Material	Mineral filled ABS(RoHS2 compliant)		Mineral filled ABS / Die-cast aluminium baffle (RoHS compliant)		Cast Polymer enclosure (RoHS2 Compliant)	Cast Polymer enclosure with die-cast Aluminium baffle (RoHS2 Compliant)	Mineral filled ABS(RoHS2 compliant)	
Pre construction Bracket	WB6 (Purple)		WB8 (Green)	WB10 (Light Brown)	N/A	N/A	WB4LCR (Dark Brown)	
Weight	5lb 14oz (2.65kg)	7lb 4oz (3.31kg)	10lb 14oz (4.95kg)	12lb 6oz (5.62kg)	26lb 6oz (11.98kg)	28lb 6oz (12.98kg)	5lb 6oz (2.5kg)	



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Version 1 2015