

kappa series
perfect 5.1
perfect 6.1
instructions

Thank you for purchasing an Infinity Kappa Perfect component system. Kappa Perfect components have been engineered to provide the most accurate sonic reproduction possible. Over the years, we at Infinity have listened to hundreds of automotive speakers and we think these are among the finest. We hope you agree.

This manual includes information that will make your installation as simple and trouble-free as possible. It also provides detailed technical information that will help an experienced installer optimize speaker placement and crossover adjustment. Please study this manual before you begin your installation. Remember to send in your warranty registration card, and keep your sales receipt somewhere safe in case you need warranty service.



IMPORTANT

Installation of automotive stereo components can require extensive experience performing a variety of mechanical and electrical procedures. Although these instructions explain how to install a Kappa Perfect component system in a general sense, they do not show the exact installation method for your particular car. If you feel you may not have the necessary tools or experience, ask your authorized Infinity car audio dealer about professional installation options.

WARNING

Playing loud music in your automobile can permanently damage your hearing as well as hinder your ability to hear traffic. We recommend listening at low volume while driving. Infinity accepts no liability for hearing loss, bodily injury or property damage resulting from use or misuse of this product.

A NOTE ABOUT SYSTEM PERFORMANCE

For the best performance possible, the Kappa Perfect components should be used with a two-channel amplifier with output power of at least 50W RMS per channel. The passive crossover contains impedance-compensating circuitry and has been computer-optimized for the flattest possible frequency response with the tweeter flush-mounted, on-axis with the listener. The combined responses of the speakers and passive crossover constitute a 4th-order Linquitz-Riley acoustic alignment and cannot be duplicated with any electronic crossover currently available for car audio use. Consequently, bi-amping a Perfect component system with an electronic crossover is not recommended.

SPEAKER PLACEMENT

Figures 1–4 show possible speaker placements in the order of most desirable to least desirable. Kick-panel mounting will provide the best staging and imaging in most vehicles.

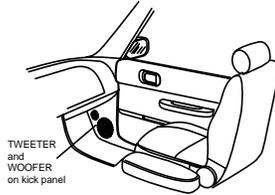


Figure 1.
Mounting the woofer and tweeter in the kick panels

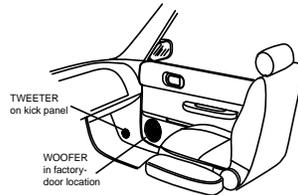


Figure 2.
Mounting the woofer in the door and the tweeter in the kick panel

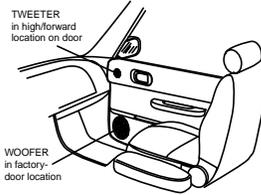


Figure 3.
Mounting the woofer and tweeter in the doors

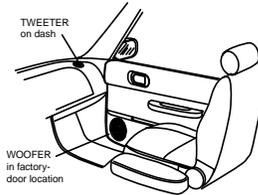


Figure 4.
Mounting the woofer in the door and the tweeter in the dash

TWEETER INSTALLATION

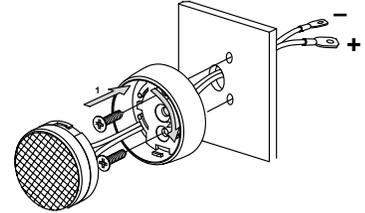


Figure 5.
Surface-mounting the tweeter

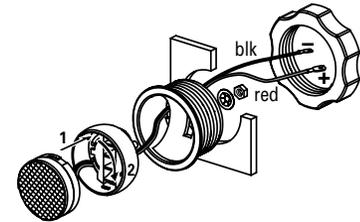


Figure 6.
Flush-mounting the tweeter

WOOFER INSTALLATION

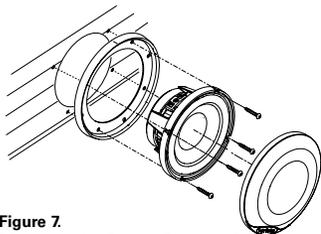


Figure 7.
Mounting the P5.1 or P6.1 woofer where there is no factory speaker location. To mount the P5.1 in factory locations, omit the grille and grille tray.

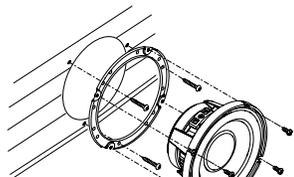


Figure 8.
Mounting the P6.1 woofer in standard 5-1/4" holes (in many Japanese and American automobiles)

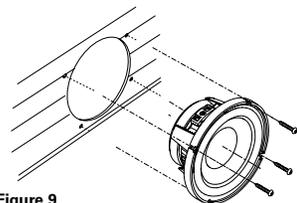


Figure 9.
Mounting the P6.1 woofer in 165mm holes (in many European and American automobiles)

ELECTRICAL CONNECTIONS AND CROSSOVER ADJUSTMENTS

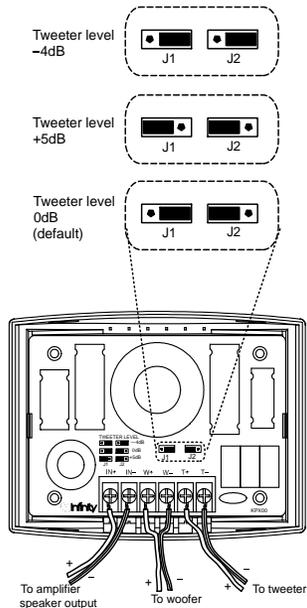


Figure 10.
Connecting the speakers and the amplifier to the crossover

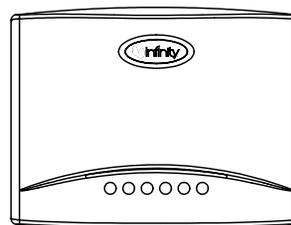
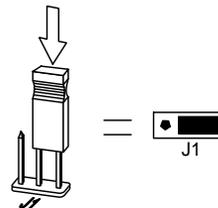


Figure 11.
Adjust the crossover using the jumpers provided

DECLARATION OF CONFORMITY



We, Harman Consumer International
2, route de Tours
72500 Chateau-du-Loir
France

declare in own responsibility, that the products described in this owner's manual are in compliance with technical standards:
EN 50081-1:1992
EN 50082-1:1997

Lutz Uphoff
Harman Consumer International
Chateau-du-Loir, France 401

SPECIFICATIONS

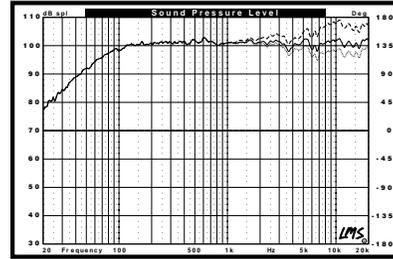
System	P6.1	P5.1
Frequency Response:	75Hz – 23kHz, ± 3 dB	80Hz – 23kHz, ± 3 dB
Power Handling:	100W RMS, 400W Peak	100W RMS, 400W Peak
Nominal Impedance:	4 Ohms	4 Ohms
Sensitivity:	90dB	89dB
Crossover Frequency:	3.5kHz, 24dB/oct. Linquitz-Riley Acoustic	3.5kHz, 24dB/oct. Linquitz-Riley Acoustic

Thiele and Small Parameters

	P6.1 Woofer	P5.1 Woofer	Tweeter
Revc:	3.45	3.38	3.31
Levc:	0.37	0.21	0.02
Sd:	0.0113	0.0100	0.0005
BL:	6.37	3.94	1.99
Vas:	11.43	9.29	0.0016
Cms:	630.36	654.21	44
Mms:	18.94	10.41	0.3064
Mmd:	18.25	9.84	0.3
Fs:	46.05	60.98	1370.65
Qms:	3.44	3.60	5.4
Qes:	0.465	0.87	2.19
Qts:	0.41	0.701	1.56
Top-Plate Thickness:	9/32" (7.115mm)	9/32" (7.115mm)	N/A
Voice-Coil Length:	9/16" (14mm)	9/16" (14mm)	N/A
Voice-Coil Diameter:	1-1/2" (38.1mm)	1-1/4" (31.75mm)	1" (25.4mm)
Xmax:	1/8" (3.44mm)	1/8" (3.44mm)	N/A
Mounting Depth:	2-3/4" (70mm)	2-3/8" (61mm)	1" (25.4mm)
Cut-Out Diameter:	5-1/16" (129mm)	4-5/8" (118mm)	1-3/4" (45mm)

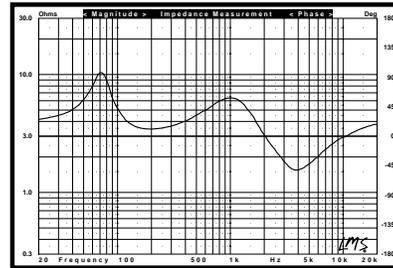
SYSTEM RESPONSE CURVES

Perfect6.1 System Frequency Response

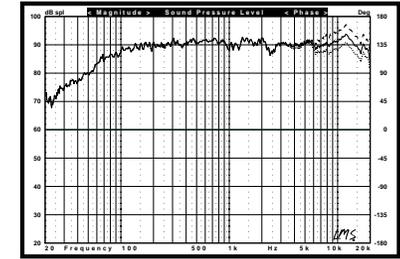


————— Kappa Perfect6.1 (flat setting)
 - - - - - Kappa Perfect6.1 (+5dB setting)
 Kappa Perfect6.1 (-4dB setting)

Perfect6.1 System Impedance

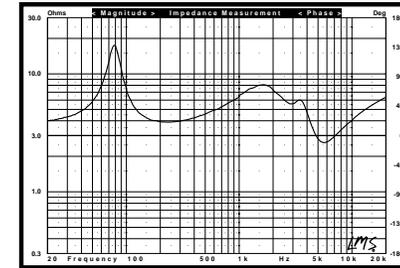


Perfect5.1 System Frequency Response



————— Kappa Perfect6.1 (flat setting)
 - - - - - Kappa Perfect6.1 (+5dB setting)
 Kappa Perfect6.1 (-4dB setting)

Perfect5.1 System Impedance



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