

 **Infinity**[®]

kappa series

40.2cs, 50.2cs,
60.2cs & 652.2cs

instructions

Thank you for purchasing an Infinity Kappa Series 2-Way Component System. We've organized this manual to make your installation as simple and trouble-free as possible. Please read it thoroughly before proceeding. Remember to keep your sales receipt with this manual in a safe place so both are available for future reference.

IMPORTANT: Installation of automotive stereo components can require extensive experience with a variety of mechanical and electrical procedures. Although these instructions explain how to install a Kappa Series 2-Way Component System in a general sense, they do not show the exact installation method for your particular vehicle. If you do not feel you have the experience, do not attempt the installation yourself, but instead ask your authorized Infinity car-audio dealer about professional installation options.

WARNING: Playing loud music in an automobile can permanently damage your hearing, as well as hinder your ability to hear traffic. The maximum volume levels achievable with Infinity speakers, combined with high power amplification, may exceed safe levels for extended listening. We recommend using low volume levels when driving. Infinity accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of this product.

SPEAKER PLACEMENT

Kappa speakers are designed to be easily installed in stock speaker locations. While mounting your speakers in the original factory locations will, in most cases, provide excellent sonic results, the best-sounding installations are a result of adherence to a few basic rules.

- For the most spacious stereo image, place the left and right speakers as far apart as possible.
- For enhanced center image, place the left and right speakers so they are equidistant from the listening position. If possible, try to place them as far forward as possible.
- For best treble response when tweeters are flush-mounted in the I-Mount™ (pat. 5,859,917), aim them at the listening position by adjusting the tweeter angle in the cup, tightening the small metal locking nut behind the assembly, and rotating the entire assembly in its mounting location before tightening the large plastic locking nut behind the panel (see Figure 6, page 3).

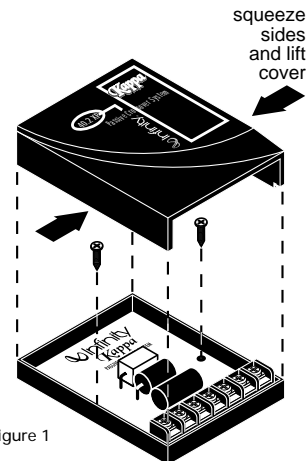
INSTALLATION WARNINGS AND TIPS

- Always wear protective eyewear when using any tools.
- Turn off all audio systems and other electrical devices before you start. Disconnect the (-) negative lead from your vehicle's battery.
- Keep components in their package until final installation. When moving a speaker, always rest it with the cone or dome facing up. Never use force to install any speaker.
- Check clearances on both sides of a planned mounting surface before drilling any holes or installing any screws. Remember that the screws can extend behind the surface.
- At the installation sites, locate and make a note of all fuel lines, hydraulic brake lines, vacuum lines and electrical wiring. Use extreme caution when cutting or drilling in and around these areas.

CAUTION: In some cars, fuel tanks may be located directly beneath the rear deck. Check for adequate speaker basket clearance before considering this location!

- Before drilling or cutting holes, use a utility knife to remove unwanted fabric or vinyl, to keep material from snagging in a drill bit or saw.
- For door installations, check the clearance with the windows throughout the range of the window's travel, and verify that a mounted speaker will not interfere with the window crank or power-window mechanism.
- If mounting components elsewhere, check for clearance around rear deck torsion bars, glove box or other structural elements.
- Do not mount components where they will get wet.

CROSSOVER INSTALLATION



WIRE CODES

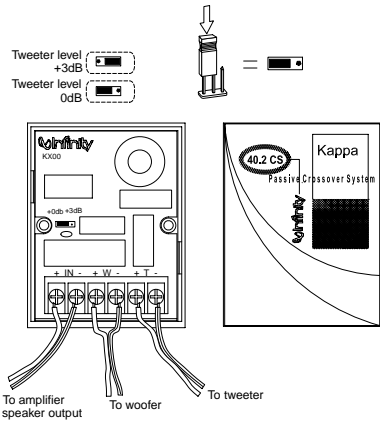


Figure 2
Connect the speakers and amplifier to the crossover as shown.

WOOFER INSTALLATION

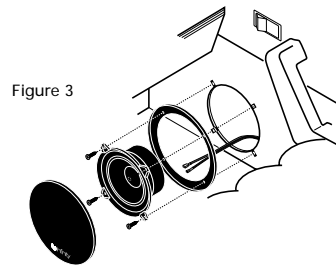


Figure 3
Fasten the midrange through the plastic grille tray with the screws and clips provided. Press the metal mesh in place in the tray.

TWEETER INSTALLATION

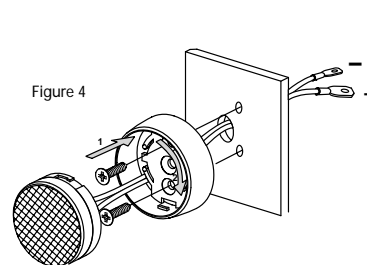


Figure 4
Mounting the tweeter using the I-Mount surface-mounting kit.

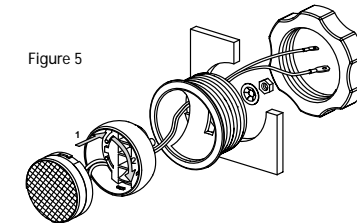
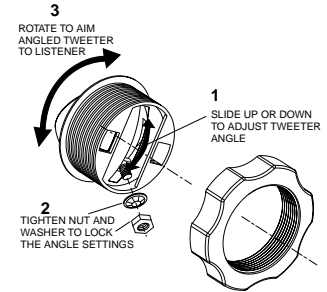


Figure 5
Mounting the tweeter using the I-Mount flush-mounting kit.

Figure 6



Aim the tweeter at the listening position by sliding the stud in the groove on the back of the tweeter cup and rotating the entire assembly in the mounting surface. Lock the tweeter in place using the small retaining nut and the large plastic mounting nut.

A NOTE ON POWER HANDLING

The speakers used in Kappa Series 2-Way Component Systems are designed to produce reasonable volume levels with little amplifier power. However, the addition of an amplifier to drive your speakers and a subwoofer will enhance the dynamic range of your system, and help overcome the ambient noise in a moving vehicle. Kappa speakers are designed to handle the power of a dedicated amplifier driven at or below its rated power. If an amplifier is driven far above its rated power, the output signal will "clip," and the additional power present in a clipped signal can damage any speaker. Distorted or "fuzzy" sound from your speakers is an indication that the amplifier has exceeded its rated power, and you should reduce the volume level.

GENERAL CARE

The loudspeaker grilles may be cleaned with a slightly damp cloth. Do not use any cleaners or solvents on the grilles or the speaker cones.

SPECIFICATIONS

40.2cs

Type: 4" 2-Way System
Speaker Impedance: 4 Ohms
Power Handling: 75W RMS, 300W peak
Frequency Response ($\pm 3\text{dB}$): 80Hz - 21kHz
Sensitivity: 89dB
Crossover Frequency: 3.5kHz
Mounting Depth, Drop-in - Midrange: 1-13/16" (47mm)
Cutout Diameter
Midrange: 3-3/4" (96mm)
Cutout Diameter - Tweeter: 1-3/4" (45mm)

50.2cs

Type: 5-1/4" 2-Way System
Speaker Impedance: 4 Ohms
Power Handling: 85W RMS, 340W peak
Frequency Response ($\pm 3\text{dB}$): 59Hz - 21kHz
Sensitivity: 89dB
Crossover Frequency: 3.5kHz
Mounting Depth, Drop-in: 2-3/8" (61mm)
Cutout Diameter: 4-13/16" (123mm)
Cutout Diameter - Tweeter: 1-3/4" (45mm)

60.2cs

Type: 6-1/2" 2-Way System
Speaker Impedance: 4 Ohms
Power Handling: 90W RMS, 360W peak
Frequency Response ($\pm 3\text{dB}$): 50Hz - 21kHz
Sensitivity: 89dB
Crossover Frequency: 3.5kHz
Mounting Depth, Drop-in: 2-7/16" (62mm)
Cutout Diameter: 5-1/8" (131mm)
Cutout Diameter - Tweeter: 1-3/4" (45mm)

652.2cs

Type: 165mm 2-Way System
Speaker Impedance: 4 Ohms
Power Handling: 90W RMS, 360W peak
Frequency Response ($\pm 3\text{dB}$): 50Hz - 21kHz
Sensitivity: 89dB
Crossover Frequency: 3.5kHz
Mounting Depth, Drop-in: 2-1/2" (64mm)
Cutout Diameter: 5-11/16" (145mm)
Cutout Diameter - Tweeter: 1-3/4" (45mm)



Infinity Systems, Inc. • 250 Crossways Park Drive
Woodbury, NY 11797 USA • (800) 553-3332 • FAX (516) 682-3523
P/N:INFKAPCSOM H A Harman International Company

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 50082-1:1992



Lutz Uphoff
Harman Consumer International 12/99