



ID SERIES COMPONENT SYSTEM

ID65cs



OWNERS MANUAL

Please read through this manual to familiarize yourself with your new amplifier. Should your Image Dynamics mobile amplifier ever require service, you will need to have the original dated receipt.



2-WAY COMPONENT SYSTEM

Congratulations on your purchase of Image Dynamics speakers. You now own a speaker of uncompromising design and engineering from a factory that truly believes in the relentless pursuit of perfection. Incorporating the highest quality parts and state-of-the-art materials, these speakers display the ultimate balance between high fidelity, performance and long-lasting reliability.

TECHNICAL FEATURES

Premium Component System offers a level of performance to please even the most critical listener

Parabolic Butyl Rubber Surround to ensure long lasting and linear piston movement for dynamic sonic reproduction

Poly/Mica Cone for detailed and distortion free mid-bass and vocal reproduction

Y-35 Magnet Motor Structure provides a very powerful flux field to increase efficiency

25mm Silk Dome Tweeter coated with our proprietary DDC coating for accurate sonic delivery all the way up to 25kHz

High Grade Crossover Components including metalized polypropylene capacitors and low loss 16 gauge air core inductors

Δ Caution Δ

High powered audio systems in a vehicle are capable of generating higher than "Live Concert" levels of sound pressure. Continued exposure to excessively high volume sound levels could cause hearing loss or damage. Also, operation of a motor vehicle while listening to audio equipment at high volume levels may impair your ability to hear external sounds such as horns, warning signals, or emergency vehicles, thus creating a potential traffic hazard. In the interest of safety, Image Dynamics USA highly recommends listening at lower volume levels when driving.

SPECIFICATIONS FOR IMAGE DYNAMICS ID65CS DRIVER

(Due to Constant Improvements, Specifications and Parameters are subject to change without notice.)

Model	Size	Nominal Impedance	Frequency Response	Sensitivity 1W/1M	Magnet Size	Mounting Depth	Power RMS/Peak
ID65cs	6.5"	4-ohm	55Hz-25kHz	89 dB	21oz.	2.75" (70mm)	100W/200W

Before beginning your installation, thoroughly read this guide and keep it as a reference. It will give you tips on proper placement, wiring, and installation as well as how to obtain the best sound from the Image Dynamics speakers you have selected.

Woofer

Crossover Network

Tweeter



SPECIFICATIONS FOR IMAGE DYNAMICS ID65CS TWEETER

Dome Size	Mounting (Diameter)	Nominal Impedance	Frequency Response	Sensitivity (1M / 1M)	Mounting (Depth)	Power (RMS/Peak)
1" Silk	1 7/8" (48mm)	4Ω	3K-25Khz	89 dB	3/4"	50 / 100mm

INSTALLATION EXPERIENCE

Installation of Image Dynamics Speakers requires experience with a variety of mechanical and electrical procedures. This manual only provides general installation and operation instructions. If you have any reservations about your installation skills or lack of the proper tools, please contact your local Image Dynamics dealer for assistance.

TIPS TO GET THE MOST OUT OF YOUR IMAGE DYNAMICS SYSTEM

Your Image Dynamics speakers have been meticulously engineered and designed to handle high power musical reproduction. Despite their rugged construction, it is possible to damage your speaker if they are improperly used. In general, you will hear distortion as a so-called warning before any damage occurs. If you hear distortion in your system, immediately reduce the musical level to the point where the sound retains its clarity.

1. Be sure you supply the speakers with enough unclipped amplifier power to drive them properly. (More damage can be done to a speaker by under-powering and clipping your amplifier than any other way!)
2. Where possible, a separate amplifier just for your speaker should be used with an electronic crossover to set the frequency range. One amplifier with passive crossovers will work (Tri-Way Setup), but the system will do more with less stress on the amplifier by using two amps.
3. To avoid any possible sound cancellation from the front of the speaker to that of the rear of the speaker, cut a panel of Masonite or MDF to firmly mount the speaker if the vehicle's original cutout is too big.
4. When connecting speaker wires from the amplifier or head unit to that of the speaker itself, pay attention to the polarity of the connection. This will insure optimum sound reproduction and performance.
5. For maximum dynamic performance use weather stripping to insure a tight seal.
6. Do not mount any speakers or external crossovers where they will get wet.
7. Remember the Golden Rule "Measure twice...cut once."

PREPARING FOR INSTALLATION

NOTE: The tools listed below may be required for proper installation.

- An electric drill with drill bits
- Phillips-head and standard screwdrivers
- Wire strippers
- Crimping tool and needle-nose pliers
- Silicone sealant or closed cell weather-stripping
- Metal file
- Hole saw
- Electronic (rosin not acid core) solder

INSTALLATION PRECAUTIONS

NOTE: Proceed only if you are a qualified installer otherwise, let your dealer do it.

- Always wear protective eyewear when using tools.
- Turn off all stereo and other electrical devices before you begin.
- Disconnect the (-) negative lead from your vehicle's battery.
- Keep the speakers in the package until final installation.
- Locate all fuel lines, brake lines, oil lines, and electrical cables when planning your installation.
- Check to see if there is enough clearance behind the mounting surface before installing the speakers.
- When running speaker wires through sheet metal, be sure to use grommets to properly insulate the wires from metal edges.

INSTALLATION PROCEDURES

- Since these speakers utilize a unique low profile tweeter housing that has minimal tweeter protrusion, original factory mounting cutouts can still be used with the factory grills in many cases.
- These Image Dynamics speakers can be used above or below the mounting hole. Typically, your vehicle factory's speaker cutouts will accommodate these new speakers without any modifications. When the speaker has been correctly installed, there should be no air leaks between the front and back of the speaker.
- For door installations, check the clearance of the windows throughout the entire range of the window's travel.
- Mount your speakers securely! If the speaker has four or more mounting holes, it is best to use all of them.
- Check the available mounting depth before installing the speaker. Use care when removing factory grills, door panels and factory speakers.

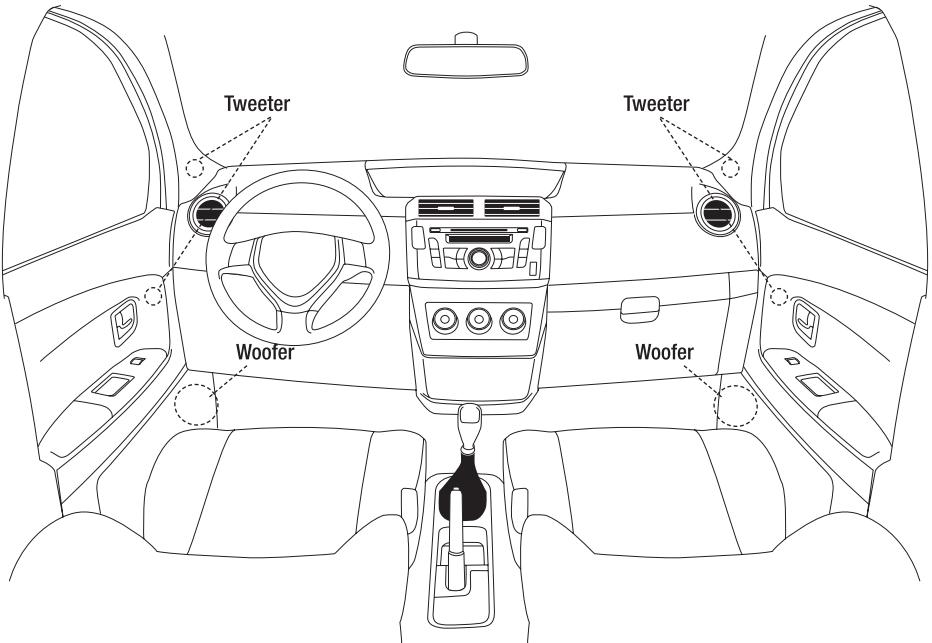
COMPONENT SYSTEM INSTALLATION

Component Woofer

The proper installation procedure for mounting these high performance mid-range speakers is to secure the speaker to the vehicle's speaker mounting hole. Once the speaker is in place, determine if the supplied grill needs to be installed. If so, place the grill in place over the speaker and screw the speaker into the mounting hole.

Component Tweeter

These high quality tweeters come complete with several mounting housings for installation versatility. Once you have chosen the housing that is to be used, gently press the tweeter into the proper mounting cup. Experiment with the tweeter positioned in several locations to determine the best imaging result before cutting out any panel. Typically tweeters should be mounted on axis and as close to ear level as possible. If the tweeter has to be removed from the mounting cup, insert a small screwdriver in the back of the tweeter and carefully push the tweeter from the mounting cup.

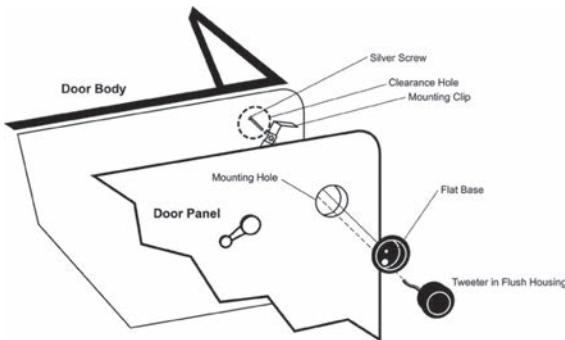


INSTALLATION PROCEDURES

By mounting the tweeter separately from the woofer (or mid-range driver) the installer can choose the best location for sound quality and imaging. Three mounting types are possible allowing more versatility for the tweeter location. These are flush mount, surface mount, and angle mount.

Flush Mounting (Type A)

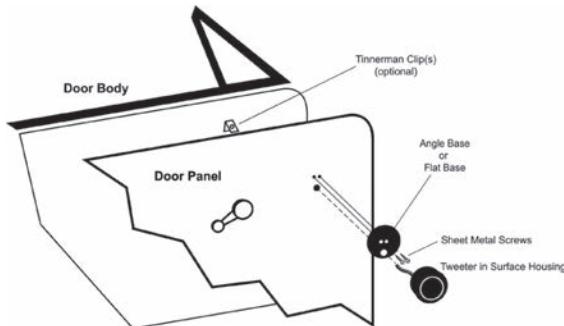
The best location for the tweeter is usually high up on the door and as far forward as possible without interference from the dashboard. If the desired location is flat and space behind the door panel allows the use of the flush mount housing, follow the drawing as shown below:



After checking for clearance, cut the mounting hole in the door panel (see Tweeter Specifications for hole size). Mount the Flat Base from the outside with the mounting clip on the inside of the door panel. Secure the mounting clip to the Flat Base with the long silver screw provided.

Surface/Angle Mounting (Type B and C)

If mounting the tweeter on the surface works out best, refer to the following drawing to see how to best mount the tweeter. Black sheet metal screws have been provided to attach the surface base to the door panel.

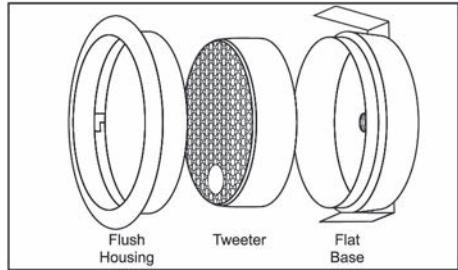
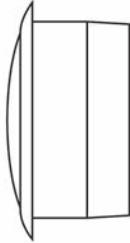


COMPONENT TWEETERS

These high quality tweeters come complete with several mounting housings for installation versatility. Typically tweeters should be mounted on axis and as close to ear level as possible. After you have chosen the housing to be used, gently press the tweeter in the proper mounting base. Once the tweeter base is mounted, push and “twist” the housing until it locks to the base. Below are exploded views showing the possible types of tweeter mounting.

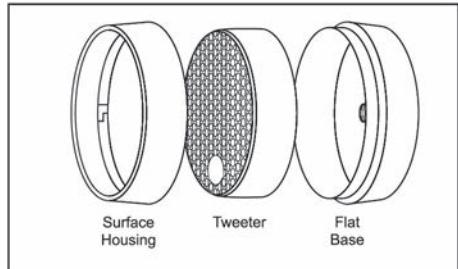
Type A

Flush Mount Tweeter



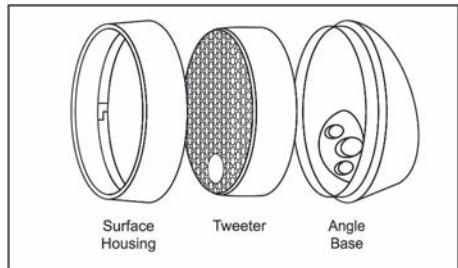
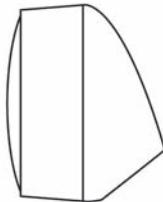
Type B

Surface Mount Tweeter



Type C

Angle Mount Tweeter



CROSSOVER NETWORK INSTALLATION AND WIRING

Your Image Dynamics Component system contains two separate 2-way crossover networks. When choosing a location to mount the crossovers, keep in mind they contain electronic parts which can be damaged by moisture and dirt.

Correct wiring of the crossover is critical to avoid damage to the speakers and ensure true high fidelity sound. Pay close attention to the markings on the crossover to be certain the correct speakers are in the correct outlets as follows:

- 1) Connect the amplifier or head unit output to the crossover's INPUT terminals.
- 2) Connect the terminals labeled WOOFER to the component midrange speaker.
- 3) Connect the terminals labeled TWEETER to the component tweeter set.

CAUTION: Care must be taken when adjusting the screws on the input terminals that fasten the speaker wires to the crossover network. Make sure each connection is secure without over tightening. Use of power tools to tighten these screws is not recommended as they can strip the screws and permanently damage the input terminals.



NOTE: BE SURE TO OBSERVE PROPER POLARITY WHEN CONNECTING SPEAKER WIRES TO THE CROSSOVER NETWORK TERMINALS.

IMAGE DYNAMICS LIMITED WARRANTY POLICY

Image Dynamics USA, Inc. offers limited warranty on Image Dynamics products under normal use on the following terms:

Image Dynamics Speakers are to be free of defects in material and workmanship for a period of one (1) year.

This warranty applies only to Image Dynamics products sold to consumers by Authorized Image Dynamics Dealers in the United States of America. Products purchased by consumers from a Image Dynamics dealer in another country are covered only by that country's Distributor and not by Image Dynamics USA.

This warranty covers only the original purchaser of Image Dynamics product. In order to receive service, the purchaser must provide Image Dynamics with the receipt stating the consumer name, dealer, product and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Image Dynamics's discretion and will not be liable for incidental or consequential damages. Image Dynamics will not warranty this product under the following situations:

- **Speakers received with bent frames or water damage**
- **Abuse such as holes in the cone, surround or ripped spider**
- **Voice coil damage due to amplifier clipping or distortion**
- **Product that has not been installed according to this owners manual**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Image Dynamics any other liability in connection with the sale of this product.

Please call (909) 930-1377 for Image Dynamics Customer Service. You must obtain an RA# (Return Authorization Number) to return any product to Image Dynamics. The RA number must be prominently marked on the outside of the shipping carton or the delivery will be refused. Please pack your return carefully; we are not responsible for items damaged in shipping. Return the defective product along with a copy of the original dated retail sales receipt, plus \$12.00 for handling and diagnostic evaluation to:

**Image Dynamics USA, Inc.,
Attn: Returns (RA# _____)
2133 S. Green Privado Ontario, CA 91761**

Residents of HI, AK and US territories will be charged for return shipping. All inquires regarding service and warranty should be sent to the above address.

Removed or altered serial numbers will void this warranty

Image Dynamics USA
2133 S. Green Privado – Ontario, CA 91761
Tel. (909) 930-1377 – Fax (866) 239-4399

www.imagedynamicsusa.net