

Thank you for purchasing this Murata product.
Please read this User's Guide completely before operating the unit.
Please retain this sheet for future reference.

Package Contents

- One (1) pair Harmonic Enhancer (or 1 pc in case of single spec.)
- One (1) warranty card
- One (1) Customer registration sheet
- One (1) User's Guide

Important Safety Instructions

Symbols and other indications used in this manual



WARNING

If instructions bearing this mark are disregarded, there is a risk of death or severe injury.



CAUTION

If instructions bearing this mark are disregarded, there is a risk of injury to persons or damage to the product like household effects.



Prohibited action



Action that must be carried out

Misuse of this product may result in personal injury or death. Therefore, please follow the safety, installation and care instructions as outlined. Any changes or modifications to the Harmonic Enhancer not expressly approved in this User's Guide will void your warranty.

Safety Instructions

Do not expose your Harmonic Enhancer to rain, moisture or liquids of any kind.



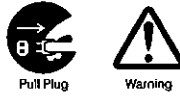
Do not insert fingers or foreign objects between the fins. Under no circumstances should you touch the gold hemisphere at the center of the Harmonic Enhancer.



Do not attempt to dismantle the housing. There are no user serviceable parts in this unit.



If there are any signs of over-heating, such as smoke or unusual odors, turn off your amplifier immediately. Then, disconnect the speaker leads from the Harmonic Enhancer.



For repair, please contact your retailer.



Installation Instructions

Placement

This product is designed for use in a home audio system only. Do not install in vehicles.



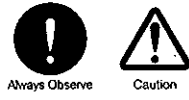
Do not install the Harmonic Enhancer in bathrooms, kitchens or any high-humidity environments.



Do not place the units in direct sunlight or near any heat source.

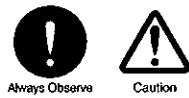


Install the units on stable supports, out of the reach of children.



Connection

Before connecting the units, please confirm that the amplifier is rated for using 8-Ohm speakers. Although Harmonic Enhancer are equipped with a protection circuit that will shut-down the units if the input power is exceeded, excessive power will eventually cause damage.



Care Instructions

Clean the units with a soft, clean, dry cloth.

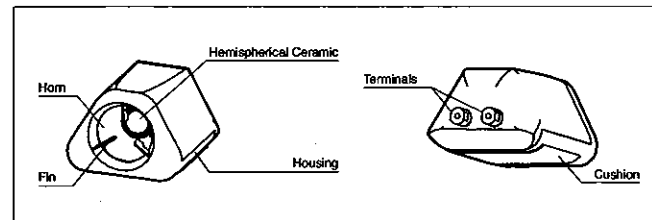
Never apply benzene, thinner or any other cleaning chemicals to the Harmonic Enhancer, as this will damage them.

Specification

Rated Impedance	8Ω
Long term maximum power	50W
Dimensions	W90×H65×D118 (mm)
Weight	1.1kg (2.4lbs)

* The specification may be changed without a notice.

Parts Name

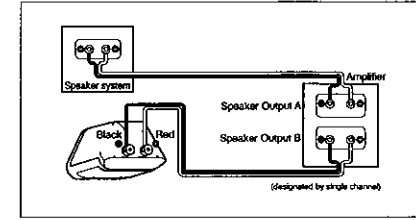


Connection

Please choose one of the following connection methods.

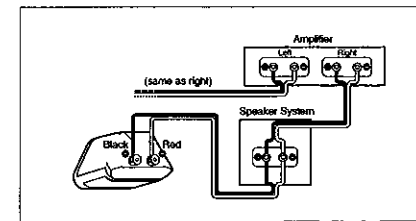
When connecting the Harmonic Enhancer to an amplifier with two speaker outputs per channel:

1. Attach the main speakers cables to Output A.
2. Attach speaker cables to the Harmonic Enhancer terminals.
3. Attach the other ends of the speaker cables to Output B, paying particular attention to polarity.
4. Check that all connections are tight.



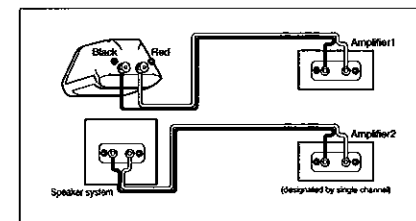
When connecting the Harmonic Enhancer to the main speakers:

1. Attach speaker cables to the Harmonic Enhancer terminals.
2. Attach the other ends of the speaker cables to the main speaker terminals, paying particular attention to the polarity.
3. Check that all connections are tight.



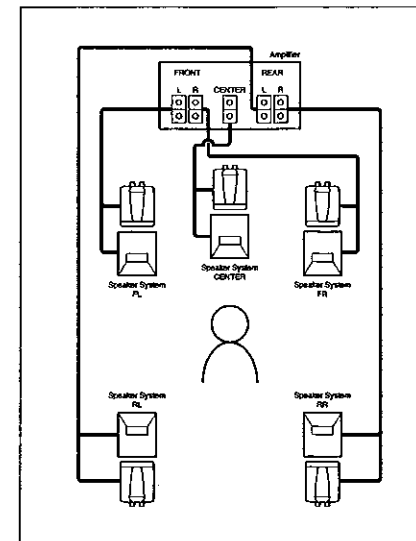
When connecting the Harmonic Enhancer to a dedicated amplifier:

1. Attach speaker cables to the Harmonic Enhancer terminals.
2. Attach the other ends of the speaker cables directly to the amplifier outputs, paying particular attention to polarity.
3. Check that all connections are tight.



(Caution)
Output signal from the tweeter is hardly audible.
Please pay enough attention not to apply too much power.

Application to home theater in addition to "Front L · R," "CENTER" and "Rear L · R" are also available for surrounding air in the room.



Troubleshooting

The Harmonic Enhancer is designed and constructed to provide the user with many years of reliable operation. However, if there seems to be a problem with the unit, please follow the instructions below.

If Harmonic Enhancer is not working, please check by the following method

Listen to the Harmonic Enhancer next to your ear. If you can hear the subtle sound of a cymbal or high frequencies then Harmonic Enhancer is working.

If you can not feel the effect of Harmonic Enhancer, please check by the following method.

- 1) If the music source is not suitable like scarce high frequency level or low signal density, please try various music source.
- 2) Please insert a rubber sheet between Harmonic Enhancer and the speaker cabinet.
- 3) Please move your ear position to the Harmonic Enhancer's height.
- 4) Please set Harmonic Enhancer at the same height level with the speaker driver.
- 5) Please adjust the direction of Harmonic Enhancer and check the sound dispersion.
- 6) Please cover the Harmonic Enhancer and compare the sound of covered with not-covered.

If you can not feel the sound effect with the above mentioned way, please contact us.

Protective Circuitry

If the input power is exceeded, a protection circuit built into The Harmonic Enhancer will activate. The Harmonic Enhancer will recover when the input power is reduced and consequently the temperature inside The Harmonic Enhancer cools down. This protection circuit is for prevention of risks occurred by excess input power, not for compensation of excess power.

If you see smoke, or perceive a strange smell

Turn off the amplifier, then disconnect the speaker leads. Contact the place of purchase with the warranty document and proof of purchase.

Warranty and Service

Warranty Card

The terms of the Murata warranty are specified on the warranty card. Proof of purchase will be required for warranty service.

Service

Please contact your retailer for service. Include the model name, serial number, purchase date and problem description. If the equipment requires service after the warranty period has expired, the owner will be responsible for any repair and shipping costs. Please be advised that parts may not be available for units that have not been in production for longer than eight years.

Notice to Users

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