



## **S3 ISOLATION BASE**

**A Low Noise Floor Is Fundamental**

# Introduction

Thank you for purchasing the Harmonic Resolution Systems S3 Isolation Base. When used properly, it will give you many years of superior musical or video signal reproduction.

The S3 Isolation Base significantly reduces the negative impact of structure-borne vibration on your audio or video component performance. Many years of engineering experience, custom material development, and listening tests are incorporated into the design of the S3 Isolation Base. The performance of the S3 Isolation Base will enable your audio/video source and amplification components to achieve a very high level of performance.

The S3 Isolation Base is an excellent match with HRS Damping Plates, Nimbus products, Vortex , and Helix. While the S3 Isolation Base works to significantly reduce structure-borne vibration, the HRS Damping Plates, Nimbus products, Vortex products, and Helix significantly reduce the harmful effects of airborne vibration and structural resonance on your components.

Please read this manual completely prior to use of your S3 Isolation Base for setup and product care instructions. Proper care of your S3 Isolation Base will ensure optimum performance and an aesthetically pleasing appearance.

All HRS products are manufactured in the US by highly skilled craftsmen using superior techniques, exotic finishes, and proprietary materials. HRS is dedicated to producing the finest audio products in the world. To accomplish that, all products advance through a series of intense inspection and approval protocol. All items are inspected 100% to verify the assembly fits are up to our exacting standards. This rigorous protocol, combined with precision design, results in a product that is a pleasure to install, use, change, or expand at any time. From all of us here at HRS, we truly hope you enjoy our product.

Your order was built and inspected by the following HRS staff:

Production: \_\_\_\_\_

Inspection: \_\_\_\_\_

Packaging: \_\_\_\_\_

## **Safety Instructions**

### **IMPORTANT WARNINGS!**

Do not place any tall objects on the isolation base. A tall object is any object with a height that is greater than the length of the isolation base. A tall object is also any object that has a height greater than its own width or length. Tall objects **must not** be placed on top of the isolation base for any reason. The object may become unstable and tip over causing damage to the component, adjacent objects, or injury to people.

Lifting or moving the isolation base should always be done by means of the outer rectangular frame. Do not lift the isolation base by the external feet attached to the bottom of the rectangular frame.

## Setup Instructions

Placing components with sharp or pointed feet directly on the isolation base may cause nicks, scratches or gouges in the surface. Use of a protective barrier between any metal-like feet or sharp objects will prevent damage to the isolation base surface. Protection from sharp objects as described above is recommended to prevent scratches and maintain the original beauty of the isolation base.

S3 Isolation Bases are produced with different HRS footer designs to optimize the performance of specific components. The type of footer the isolation base was originally configured with is identified on the packaging label on the outside of the box of each base. The footer designation is also identified by a color-coded dot located on the back edge of the frame. HRS isolation bases have a unique ability to change at any time to optimize performance for a different component or different environment. If you change the feet of the isolation base, we recommend you also change the color-coded dot on the back of the isolation base so it is easy to identify what performance setting the base is currently configured in your system.

The HRS G7 footer does not have any load range limit. You can place any component on an S3 Isolation Base configured with G7 feet. An S3 Isolation Base with G7 feet is not sensitive to component weight or weight distribution. HRS Broadband Isolation (SF2 and SF3) and HRS Subsonic Broadband Isolation (LF2 and LF3) footers are made in various load ranges to optimize performance for different component weights. When using the SF and LF footers please verify that the component that will be placed on the isolation base is within the rated load range for SF footer or is the specific component model number for LF footers.

If the SF or LF footers of the S3 Isolation Base are overloaded, the HRS isolators will hit a protective stop and significantly reduce the product performance. If your isolation base has SF or LF feet (pictured below), you can check to see if the isolation base is overloaded by testing for compliance between the isolation base frame and the feet at each corner. With the component loaded on the isolation base, check each corner individually by pressing down firmly on each corner. An isolation base with SF and LF feet should be compliant at each corner location and not feel rigid. If there is displacement at each corner then the isolation base is working as designed. If there is no compliance at one or more corners then the load range should be changed by HRS to the proper load range. HRS can modify the S3 Isolation Base load range as many times as needed for a fraction of the original purchase price. Overloading the isolation base for an extended period of time may reduce its service life and voids the warranty.

The HRS G7 feet (pictured below) will not have any compliance and so they should not react when you press down on the corner of the base. Instead, check that all four feet are in direct intimate contact with the surface the isolation base is resting on by pressing down firmly at each corner and observing if the isolation base rocks up and down. If any rocking motion occurs, adjust the G7 foot at the rocking corner

by turning it counter-clockwise (as viewed from below base frame)  $\frac{1}{8}$  of a rotation at a time until it no longer rocks under pressure. Always maintain at least three full rotations of thread engagement on each G7 foot. Optimal performance will be achieved when at least three G7 footers are threaded fully into the frame and only one foot is adjusted to prevent rocking. The G7 feet are not designed to level the base frame. Leveling of the S3 Isolation Base is done by adjusting the HRS frame or other supporting structure.



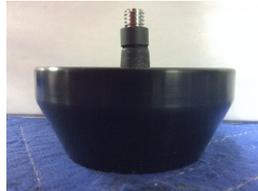
SF2 height: 1.300"



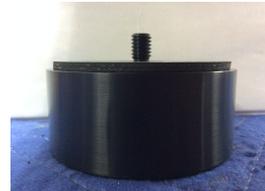
SF3 height: 1.300"



LF2 height: 1.475"



LF3 height: 1.475"



G7 Height 1.350"



Bottom SF2 / LF2



Bottom SF3 / LF3

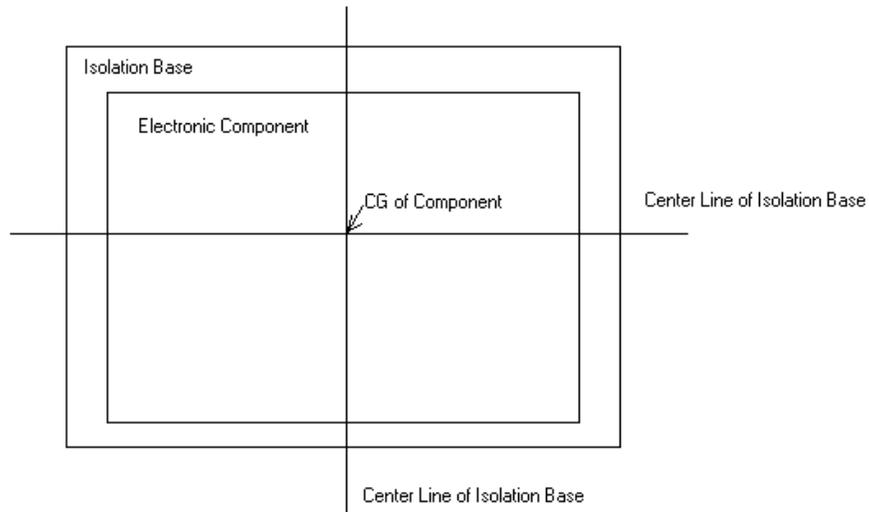


Bottom G7

Note: The listed heights above are from bottom to top of outer metal housing only (not to the top of isolators, shims, or threads)

A majority of source components have a center of gravity that is approximately near the geometric center of the component. However, some amplifiers and source components can have significant variation in weight distribution that is dependent on the design layout of the heavier objects within the component.

The HRS G7 feet are not sensitive to component weight or weight distribution. You can use the HRS G7 feet with any component weight and any weight distribution. For the SF/LF feet the ideal isolation base setup is to have the center of gravity of the component in the geometric center of the isolation base. This will result in even loading of the SF/LF feet. This can be achieved by estimating the center of gravity of your component and placing it in the geometric center of the isolation base. Even loading of the SF/LF feet can also be achieved by moving the component until the isolation base is level.



Top View  
Component and Isolation Base

If you have a component that does not allow you to locate the center of gravity near the geometric center of the isolation base with SF/LF feet, you can utilize a custom combination of isolation feet to accommodate a significant variation in isolator loading. Please consult with your authorized HRS retailer or HRS directly if you have questions regarding proper loading of your S3 Isolation Base. Custom HRS Isolation Bases built for a specific component model have already been set up for that specific component weight distribution. If the component is centered on the custom isolation base and the HRS logo is in the right front corner then the loading of a custom base model is correct.

## Specifications

The following specifications are based on your S3 Isolation Base part number which is marked on the outside of the original factory box. The part number is composed of the following information sequence:

Series - Model Number – Foot Type (Load Range) - Base Color

The load range can also be identified by the color of the sticker located on the back of the isolation base frame. Just cross reference the color of the sticker to the table on the next page that corresponds to your base's model number. The isolators are also marked with colored dots that should match the colored sticker on the back of the frame. Bases with custom load ranges have no colored sticker, but their isolators are marked.

The recommended load range is the range of component weight that will yield optimal performance. If you have less than recommended load you will still likely obtain very good results based on HRS technology. Placing more than 10% over the maximum recommended load may result in a significant decrease in isolation base performance because there is a safety stop mechanism that will engage to prevent damage to the isolation base. When the safety mechanism is engaged the performance is decreased significantly until the isolation base is returned to within its rated load range.

### S3 Isolation Base Physical Characteristics and Load Ranges

<b>Model:</b> S3-1719	<b>Dimensions:</b> 19 x 17 x 3 inches (48.3 x 43.2 x 7.6 cm)	<b>Base Weight:</b> 42 lb 19.1 kg
<b>Sticker / Dot Color</b>	<b>Load Range</b>	
Orange (OR)	0 - 30 lb	(0 - 13.8 kg)
Red (RD)	31 - 50 lb	(13.9 - 22.8 kg)
Green (GN)	51 - 90 lb	(22.9 - 41.0 kg)
Blue (BL)	91 - 165 lb	(41.1 – 75.0 kg)
Purple (PR)	Not load-dependent (G7 feet)	

<b>Model:</b> S3-1921	<b>Dimensions:</b> 21 x 19 x 3 inches (53.3 x 48.3 x 7.6 cm)	<b>Base Weight:</b> 51 lb 23.1 kg
<b>Sticker / Dot Color</b>	<b>Load Range</b>	
Orange (OR)	0 - 25 lb	(0 - 11.5 kg)
Red (RD)	26 - 45 lb	(11.6 - 20.6 kg)
Green (GN)	46 - 85 lb	(20.7 - 38.7 kg)
Blue (BL)	86 - 155 lb	(38.8 – 70.5 kg)
Purple (PR)	Not load-dependent (G7 feet)	

## Care and Maintenance

The S3 Isolation Base is a very low maintenance item that will provide many years of trouble free performance by applying these basic care instructions.

Clean the surfaces of the S3 using a lint-free soft (non-abrasive) cloth. If needed use a cloth lightly damped with water. Do not use any solvents and do not use any abrasive cleaners or abrasive materials on any part of the isolation base.

Do not spray, soak, or submerge the isolation base in water or any cleaning solutions. The isolation base is an assembly of many different parts and materials. Submerging the isolation base will cause permanent damage to the assembly.

Do not wash the interior flex element of the isolation feet even if you see a coating or white substance on the surface of the flex element. This coating is intentional and is put in the flex element to protect the custom isolation material from the environment.

### **Warnings!**

Do not place objects with sharp or pointed feet directly on the isolation base.

Do not immerse in water or spray with water or any other liquids.

Do not use abrasive cleaners or abrasive sponges.

Do not wash the base or isolation feet with any solvent based cleaning solutions.

Do not wash the interior flex element of the isolation feet even if you see a coating or white substance on the surface of the flex element.

## Limited Warranty

Harmonic Resolution Systems warrants the product designated herein to be free of manufacturing defects in material and workmanship subject to the conditions herein set forth, for a period of 90 days from the date of purchase by the original purchaser. If the purchaser registers the unit with Harmonic Resolution Systems by mailing in the warranty card, together with a copy of the bill of sale, within 14 days of the date of purchase, said purchaser would be registered for an extended service contract. The extended service contract extends the 90 days to a period of 5 years from the date of purchase by the original purchaser or no later than 6 years from the date of shipment to the authorized Harmonic Resolution Systems dealer, whichever comes first. This warranty is subject to the following conditions and limitations.

1. This warranty is subject to the following conditions and limitations. The warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being repaired or tampered with or modified by anyone other than Harmonic Resolution Systems. The product must be packed and returned to Harmonic Resolution Systems by the customer at his or her sole expense. A written description of the defect and a photocopy of the original purchase receipt must accompany a returned product. This receipt must clearly list model and serial number, the date of purchase, the name and address of the purchaser and authorized dealer and the purchase price. Harmonic Resolution Systems reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.
2. Warranty does not cover normal recommended care and maintenance.
3. Harmonic Resolution Systems shall not be responsible in any way for consequential or indirect damages or liabilities resulting from the use of the product covered herein or resulting from any breach of this warranty or any implied warranty relating to said product.
4. Harmonic Resolution Systems shall not be responsible in any way for damage to finishes resulting from normal use and exposure to sunlight and the environment even within the normal and extended warranty period.

During the warranty period, Harmonic Resolution Systems will repair or replace any defective components free of charge. A Return Authorization Number (RA Number) obtained directly from Harmonic Resolution Systems is required before any product is returned to Harmonic Resolution Systems for any reason. This number must be visible on the exterior of the shipping container(s) for Harmonic Resolution Systems to accept the return.

Units shipped to Harmonic Resolution Systems without a visible RA Number on the exterior of the shipping container(s) are subject to be returned to the sender, freight collect.

Units to be repaired by Harmonic Resolution Systems must be sent shipping and insurance prepaid by the original purchaser in the original packaging material. A returned product should be accompanied by a written description of the defect. Repaired units will be returned by Harmonic Resolution Systems shipping and insurance prepaid by the customer.

All other warranties or conditions either written or implied are void.

**(MADE IN USA)**

All Harmonic Resolution Systems Inc. products are 100% Made In The United States of America by skilled craftsmen using only the finest materials and our personal dedication to the highest workmanship standards.

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