EXRH HEADPHONE STAND SYSTEM

A Low Noise Floor Is Fundamental

Introduction

Thank you for purchasing the patented Harmonic Resolution Systems EXRH Headphone Stand System (US Patent No. 11,751,682, Chinese Patent No. ZL 2023 1 0811843.9). When used properly, it will give you many years of superior musical or video signal reproduction.

The EXRH Headphone Stand System significantly reduces the negative impact of structure-borne noise on your audio or video component performance. Decades of engineering experience, custom material development, and listening tests are incorporated into the design of the EXRH Headphone Stand System. This high-quality product from Harmonic Resolution Systems, Inc. will enable your audio/video source and amplification components to achieve high levels of performance.

The EXRH Headphone Stand System, which optionally includes the HRS Isolation Base as the primary shelf system, is a perfect match for the HRS Damping Plates, Nimbus, Vortex, and Helix products. While the EXRH Headphone Stand System and HRS Isolation Bases work to significantly reduce structure-borne noise, the HRS Damping Plates, Nimbus, Vortex, and Helix products significantly reduce the harmful effects of airborne noise and structural resonance on your components.

Please read this manual completely prior to assembly and use of your EXRH Headphone Stand System. It contains instructions necessary for proper assembly, use, and care of this system. Proper care of your EXRH Headphone Stand System will ensure optimum performance and an aesthetically appealing system.

All HRS products are manufactured in the US by highly skilled craftsmen using superior techniques 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 protocols. 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.

Scan here to register for HRS 5-year limited warranty
https://avisolation.com/company-warranty/

Your order was built and inspected by the following HRS staff

Manufacturing: _____ _____

Inspection: _____ _____

Packaging: _____ _____

Safety Instructions

IMPORTANT WARNINGS!

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

Never lift or move the EXRH Headphone Stand System with HRS Isolation Bases installed. You should always move the EXRH Headphone Stand System to its final location prior to loading HRS Isolation Bases and components. Moving the EXRH Headphone Stand System with HRS Isolation Bases installed (with or without equipment) can permanently damage the system or cause the HRS Isolation Bases to fall out of the system, resulting in potential damage or injury. Always take the time to remove all of the equipment and HRS Isolation Bases to relocate the EXRH Headphone Stand System.

Setup Instructions

The EXRH Headphone Stand System is a complete system that can be used with or without HRS Isolation Bases. Carefully lift the EXRH out of the shipping crate, turn it upright, and move it to the desired final location for use in your system. Depending on the size of your system, this may require multiple people. Make sure to orient the system so that the front face with the HRS logo(s) faces forward. The stand Points should be placed directly on carpeted floors. Place them on HRS Floor Protectors (sold separately) instead if your system is located on wood flooring, or other surfaces you wish to guard against scratching. Please contact your authorized HRS dealer if you require HRS Floor Protectors.

All EXRH Headphone Stand Systems are shipped with all tools required to reconfigure the system in the future by adding/removing layers or replacing Struts. This is not required for initial setup of the EXRH Headphone Stand System. If you are modifying an existing EXRH Headphone Stand System, refer to the instructions beginning on page 6.

A completed EXRH-9.515-2-3V-060-060-B

Leveling the EXRH Headphone Stand System - The EXRH Headphone Stand System is now ready to be leveled. Place the provided level on top of the EXRH, and apply gentle pressure against each side of the system to see if it rocks back and forth. If the system does rock back and forth and/or does not sit level, thread out the Point(s) that must be extended to level it, $^{1}/_{4}$ turn at a time, until the system is level with all four Points in contact with the ground. Do not thread out the Point(s) more than five full rotations. Each Point must have three full rotations of engagement with the thread for proper performance and strength.

If more adjustment is required, place a shim under the Point(s) so that the additional travel is achieved without violating the three full thread minimum engagement requirement.

Once the system is level, hold the extended Point(s) with one hand, and thread the Washer(s) down with your other hand back against the top of the Point(s). Gently torque all four Washers against the tops of the Points with the HRS Grip Pad. This will lock the Points into place and prevent any motion out of the threaded connection. The result should be a very stable, firm, and level structure.

Installing HRS Isolation Bases into the EXRH Headphone Stand System (optional) - If your system includes HRS Isolation Bases, unpack each one that will be installed in the EXRH Headphone Stand System. Make sure to read and follow all of the instructions in the HRS Isolation Base manual prior to installing it into the EXRH. Also verify that the EXRH size matches the HRS Isolation Base size.

Note the load range of each HRS Isolation Base to determine which component of your system each base is matched to. Matching the HRS Isolation Base to the proper component weight will ensure optimum performance. Load ranges can be changed for a nominal factory fee, so if you do not have the correct load range for a component, please contact Harmonic Resolution Systems or your authorized HRS dealer to have this reconfigured.

Load the HRS Isolation Bases into the EXRH Headphone Stand System, with the HRS logo facing the front of the system. Carefully pass each HRS Isolation Base between the front Struts of the stand, and have another person support the rear edge while you both gently lower the base to contact the surface of the EXRH Horizontal Support Assembly. Sliding HRS Isolation Base Feet along the EXRH surfaces may scratch them. Make sure that the outside edges of each HRS Isolation Base line up with the outside edges of the EXRH Horizontal Support Assemblies.

Loading Components into the EXRH Headphone Stand System - Carefully load each component from the front of the EXRH Headphone Stand System. Be careful not to hit any part of the system or HRS Isolation Bases. If you are utilizing HRS Isolation Bases in your EXRH, make sure that none of them are overloaded. By placing one or two fingers on the bottom of the EXRH Horizontal Support Assembly, and your thumb on the top of the HRS Isolation Base, you should be able to move the top of the HRS Isolation Base slightly (at all four corners) by squeezing your fingers together. HRS G7 Feet (identifiable by a purple sticker on the back of the Isolation Base) do not require this test, as they have no compliance by design. If your SF or LF Isolation Base Feet have no compliance, remove the HRS Isolation Base and component to verify that the load range of the HRS Isolation Base is correctly matched with the component. If there is no compliance, verify the load range of the HRS Isolation Base is correctly matched with the

component. Please consult with your authorized Harmonic Resolution Systems dealer or contact Harmonic Resolution Systems if you need assistance. The HRS Isolation Base load range can be easily modified by sending it to Harmonic Resolution Systems or an authorized dealer to have the primary isolation stage rebuilt.

The maximum load capacity of each level of the EXRH Headphone Stand System is 250 lb (113 kg). Never load more than 250 lb onto a single level of the EXRH, and never exceed a total load of 1000 lb (453 kg) for the full system.

Modifying or Expanding Your EXRH Headphone Stand System - Please contact HRS or your authorized HRS dealer if you would like to modify your EXRH. Thanks to the modular design of the EXRH, expanding your system by adding levels or even splitting into multiple stands can be done in your own home, with parts available from HRS.

Modifying your EXRH Headphone Stand System will require use of certain tools and materials that were included in the original EXRH shipment. If you no longer have the Tef-gel lubricant, HRS grip pad, nylon wrench, or level, please contact your authorized HRS dealer.

Work Surface - Prior to unpacking any material, locate a very strong and stable work surface (capable of supporting 250 lb load), or area on the floor that will provide a very soft, scratch resistant work area that is at least 3'×3' in size. The more space you have, the better, as it will give you room to move around the system to complete assembly. It is important that the area be free of all dirt, screws, or small pebbles, and that it is covered with a clean, soft, protective blanket of the same size that will prevent damage to high quality finish on the EXRH Headphone Stand System.

Unpacking Assembly Hardware - Remove all the contents from all the boxes marked with the EXRH model number. Place all the hardware on a table adjacent to your selected work surface, and remove all the wrapping material. Be careful not to drop or allow the anodized aluminum parts to contact each other, as they may scratch each other. Do not stack the parts on top of each other once they are removed from the protective packaging material. To make assembly easier, group identical parts together in an organized manner. Group all the Struts by length.

Step 1. To add, remove, or replace any part of the EXRH Headphone Stand System, the system must be partially disassembled. First, remove all components, accessories, cables, and other objects from the EXRH. Then, carefully flip the system upside-down on a clean, soft work surface that is at least 3'×3' and capable of supporting a 250+ lb load (photo 1).

Photo 1

Step 2. Remove the Points, Washers, and Locking Nuts from the bottom of the system by turning them counter-clockwise (photo 2). The Points and Washers can be removed by hand, but the Locking Nuts will require use of the nylon "Wrench to Torque Nuts" (photo 3) provided with your system.

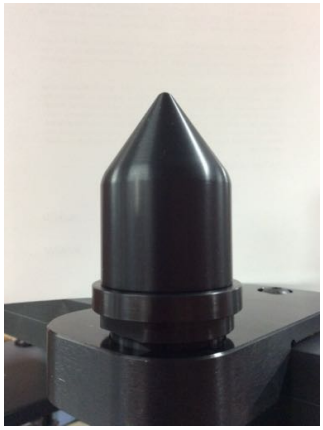

Photo 2

Photo 3

Note that the polymer rings installed between the Locking Nuts and Frame Mounts sometimes stick to the Locking Nuts as they are removed (photo 4). If this occurs, peel them off and set them back inside the Frame Mount (photo 5).

Photo 4

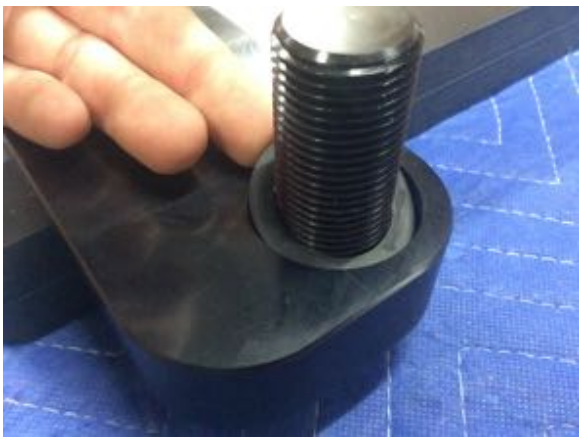

Photo 5

Step 3. If you are only adding parts to the bottom of the system, proceed immediately to step 4. If you are adding or removing parts at any location other than the bottom of the system, carefully lift the now unsecured EXRH Horizontal Support Assembly off the bottom of the EXRH, and set it aside (photo 6). Struts and EXRH Horizontal Support Assemblies can now be removed one layer at a time to expose any locations where parts are being added, removed, or replaced. Remove layers until the topmost level that is being modified is exposed. Note that since the system is upside-down for this assembly process, the top-most level of the system is resting directly on the work surface.

Also note that the polymer rings installed between the Frame Mounts and Struts sometimes stick to the Frame Mounts as the EXRH Horizontal Support Assembly is removed. If this occurs, remove the polymer rings, and set them back on the Struts so they sit flat on the surface just below the threads (photo 7).

Photo 6

Photo 7

Step 4. Identify four Struts of the correct size for this level of the EXRH Headphone Stand System. Keep in mind that the EXRH Headphone Stand System is being assembled upside-down, so the first EXRH Horizontal Support Assembly is the top level. The Struts will provide component spacing equal to $3^1/_2$" less than their total length (including threads).

e.g., Struts that measure $13^1/_2$" end-to-end (photo 8) will provide 10" of component spacing.

If you will be using HRS Isolation Bases in your EXRH Headphone Stand System, remember that the HRS Isolation Bases are approximately 3" tall when determining your required spacing. Custom orders may include sets of Struts threaded together with a Spacer between them to achieve larger component spacing (photo 9). For the instructions in this manual, simply treat these assemblies as if they were each a single extra-long Strut.

Photo 8

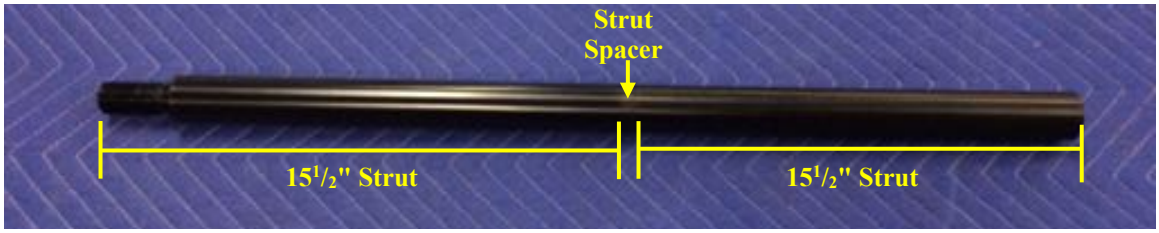

Photo 9

Fully thread one Strut onto the threaded Cap in each Frame Mount (photo 10). A high-quality Tef-Gel lubricant is applied to all Struts of the EXRH Headphone Stand System at HRS prior to shipping, so they are already prepared for assembly. If you feel metal-on-metal friction, or if the threads squeak during assembly, apply the provided Tef-Gel lubricant along the length of the provided brush (photo 11). Spread the lubricant in a circular motion around the surface along the entire length of the male threads to produce a complete and even coating (photo 12). Repeat this process with a new line of Tef-Gel lubricant on the brush for the mating female thread (photo 13). Use the provided HRS Grip Pad (photo 14) to tighten each Strut between $^1/_4$ and $^1/_2$ rotation after it contacts the polymer ring.

Photo 10

Photo 11

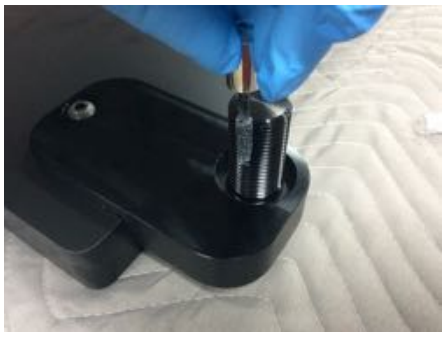

Photo 12

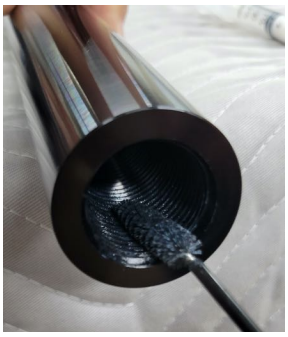

Photo 13

Photo 14

Step 5. Place a polymer ring around the threads of each Strut. Be sure the polymer rings sit fully on the Strut (photo 15). The polymer ring should sit on the non-threaded shoulder just below where the thread stops.

Photo 15

Step 6. Carefully lift a new EXRH Horizontal Support Assembly, and lower it onto the EXRH so that the Strut threads pass through the Frame Mounts (photo 16). The Frame Mounts should seat fully onto the threads and rest in full contact with the polymer rings.

Photo 16

Make sure all Frame Mounts are fully seated by measuring the distance from mount to mount at each corner (photo 17). This distance will vary depending on the length of Struts installed at this level of the system, but the distance should be equal $\pm 1/32$" at all four corners. **If they are not all equal, at least one Frame Mount is not seated correctly. Continuing assembly without first correcting this may render proper assembly of the system impossible**. This is most commonly caused by a polymer ring pinched between a Frame Mount and the corresponding Strut (photo 18). If this is the case, lift the EXRH Horizontal Support Assembly slightly to relieve pressure on the polymer ring, and make sure it falls back in place to sit completely flat on the Strut, then carefully lower the assembly straight down back into place. This may need to be done for more than one polymer ring. Use a tape measure again to confirm that this process has made all four corners even $\pm 1/32$" before continuing.

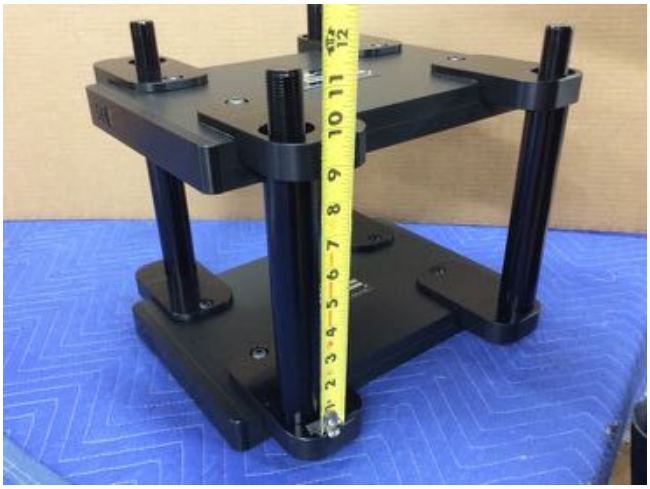

Photo 17

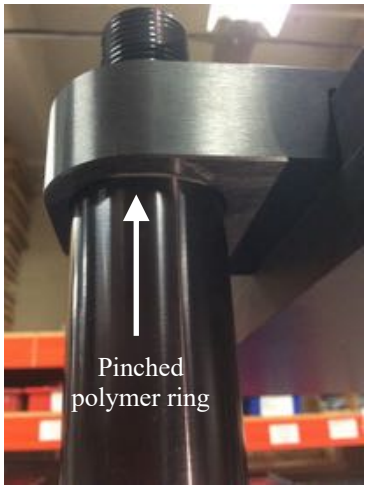

Photo 18

Step 7. Make sure there is a polymer ring around the threads protruding through each Frame Mount (photo 19). The polymer ring should sit completely flat inside the Frame Mount.

Photo 19

If your EXRH Headphone Stand System includes another level, repeat steps 4-7 to install Struts and the EXRH Horizontal Support Assembly for the next layer. Be sure to select the correct size of Strut for each level of your stand to provide adequate space for each of your components. If you have added all necessary levels to the EXRH, proceed to step 8.

Step 8. Fully thread a Locking Nut onto the threads protruding through each Frame Mount so that the Locking Nuts fully contact the polymer rings you placed in step 7. Thread the Locking Nuts on with the narrow end facing down into the counterbored holes of the Frame Mounts. A high-quality Tef-Gel lubricant is applied to all Locking Nuts, Washers, and Points of the EXR Audio Stand System at HRS prior to shipping, so they are already prepared for assembly. If you feel metal-on-metal friction, or if the threads squeak during assembly, apply the provided Tef-Gel lubricant along the length of the provided brush (photo 20). Spread the lubricant in a circular motion around the surface along the entire length of the male threads to produce a complete and even coating (photo 21). Repeat this process with a new line of Tef-Gel lubricant on the brush for the mating female thread (photo 22). Apply final torque to the Locking Nuts by using the provided custom nylon wrench to tighten them another $^1/_4$ to $^1/_2$ turn after they contact the polymer rings (photo 23). This final torque provides stiffness to the structure to ensure optimal performance for your system.

Photo 20

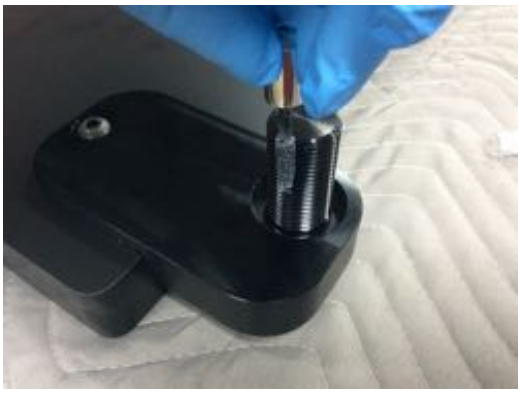

Photo 21

Photo 22

Photo 23

Step 9. Thread on the Washers just until they contact the Locking Nuts, and then thread on the Points just until they contact the Washers (photo 24). Do not torque the Washers or Points tightly.

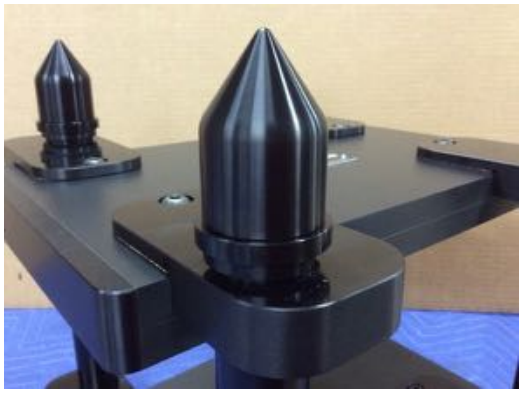

Photo 24

Step 10. Assembly of the EXRH Headphone Stand System is now complete. Carefully lift and flip the EXRH upright, moving it to your desired final location. Depending on the size of your system, this may require multiple people. Make sure to orient the system so that the front face with the HRS logos faces forward. The stand Points should be placed directly on carpeted floors. Place them on HRS Floor Protectors (sold separately) instead if your system is located on wood flooring or other surfaces you wish to guard against scratching. Please contact your authorized HRS dealer if you require HRS Floor Protectors.

With the EXRH Headphone Stand System complete, refer back to page 4 of this manual for instructions on how to level the system and install HRS Isolation Bases and components.

Care and Maintenance

The EXRH Headphone Stand System is a very low maintenance item that will provide many years of trouble-free performance by applying these basic care instructions.

Clean the external surfaces of the EXRH Headphone Stand System using a professional quality, ultra-soft, lint-free, micro-fiber cloth, available in high quality automotive stores. Use a lightly water dampened cloth if you need to clean dirt from the frame. Do not use commercial furniture polishes on the EXRH.

Please follow the care instructions in the HRS Isolation Base manual to clean and care for any HRS Isolation Bases installed in the EXRH Headphone Stand System. Read and follow the instructions received with the HRS Isolation Base to ensure optimum performance and cosmetic appeal.

Do not spray, soak, or submerge the system or HRS Isolation Bases in water or cleaning solutions. The system and HRS Isolation Bases are made from many different parts and materials. Submerging, spraying, or soaking the system or HRS Isolation Base may cause permanent damage to the assembly.

Clean the metallic parts of the HRS Isolation Bases and EXRH Headphone Stand System using a lint-free, non-abrasive cloth. Use a damp cloth with a mild soap or Pledge Multi-Surface Cleaner, if required. Do not use abrasive cleaners or solvents to clean the EXRH or HRS Isolation Bases as they may damage the quality of the surface finish. Solvents and solvent-based cleaners will attack and damage some of the materials used in the EXRH and HRS Isolation Base and should never be used.

Do not wash the interior flex element of the HRS Isolation Base 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 isolation material from the environment.

Warnings!

Placing ultra-sharp pointed feet directly on the HRS Isolation Base may cause permanent scratches.
Do not immerse in water or spray with water or any other liquids.
Do not use abrasive cleaners or abrasive sponges.
Do not wash with any solvent-based cleaning solutions.
Do not wash the interior flex element of the HRS Isolation Base Feet, even if you see a coating or white substance on the surface of the flex element.

Limited Warranty

Scan here to register for HRS 5-year 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. **The purchaser is required to register the unit with Harmonic Resolution Systems by visiting https://avisolation.com/company-warranty/ and completing the limited warranty registration, within 14 days upon receipt of any HRS product. Scan QR code to register for HRS 5-year limited warranty.**

The limited warranty 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 limited warranty is subject to the following conditions and limitations.

1. The limited 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 the model and serial number, the date of purchase, the name and address of the purchaser, the authorized HRS 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. This warranty is void and inapplicable if the product has been handled other than in accordance with the instructions specified within this document, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being tampered with, modified or repaired by anyone other than Harmonic Resolution Systems.

2. The limited warranty does not cover normal recommended care and maintenance. Harmonic Resolution Systems Inc. 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.

3. Harmonic Resolution Systems shall not be responsible in any way for damage to finishes resulting from normal use, or exposure to sunlight or the environment, even within the normal and extended limited warranty period.

During the limited 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 Inc. 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 will be 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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