

MODIFYING THE HRS EXR AUDIO STAND SYSTEM

A Low Noise Floor Is Fundamental

Introduction

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

The EXR Audio 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 EXR Audio Stand System. This high-performance product from Harmonic Resolution Systems, Inc. will enable your audio/video source and amplification components to achieve high levels of performance.

The EXR Audio 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 EXR Audio 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 air-borne noise and structural resonance on your components.

Please read this manual **completely** prior to assembly and use of your EXR Audio Stand System. It contains instructions necessary for proper assembly, use, and care of this system. Proper care of your EXR Audio 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 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.



Scan here to register for HRS 5-year limited warranty

Your order was built and inspected by the following HRS staff	Э
Manufacturing:	
Inspection:	
Packaging:	

Safety Instructions

IMPORTANT WARNINGS!

Do not place any tall objects on the top level of the EXR Audio Stand System. A tall object is any object with a height that is greater than the length of the HRS 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 EXR Audio 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 EXR Audio Stand System with HRS Isolation Bases installed. You should always move the EXR Audio Stand System to its final location prior to loading HRS Isolation Bases and components. Moving the EXR Audio 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 EXR Audio Stand System.

Setup Instructions

The EXR Audio Stand System is a complete system that can be used with or without HRS Isolation Bases. The components required to assemble the system are shipped in one or more boxes. The number of boxes depends on the system size. Each box containing parts for the system will be marked with the model number starting with EXR. All tools required to assemble the system are included with the shipment.

Work Surface - Prior to unpacking any material, locate a very strong and very stable work surface (capable of supporting 250 lb. load), or an area on the floor that will provide a 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 that will prevent damage to the high-quality finish on the system.

Unpacking Assembly Hardware - Remove all the contents from all the boxes marked with the EXR 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.

Modifying the EXR Audio Stand System requires that it be turned upside down. Depending on what system configuration you have purchased, there will be a number of EXR Frame Mounts that have threaded Caps already attached. Do not try to remove these threaded Caps, as they are bonded to the frame. These EXR Frame Mounts with threaded Caps will be the top of the system.

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

Step 1. To add, remove, or replace any part of the EXR Audio Stand System, the system must be partially disassembled. First, remove all components, accessories, cables, and other objects from the EXR. 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+ pound 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.

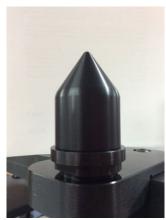


Photo 2



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 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 Horizontal Support Assembly off the bottom of the EXR (photo 6), and set it aside. Struts and 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 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 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 7

Step 4. Make sure there is a polymer ring around the threads protruding through each EXR Frame Mount (photo 8). The polymer rings should sit completely flat inside the counterbores of the EXR Frame Mounts. If your order includes Strut Spacers (photo 9) that are required at this level, install them on top of the polymer rings now (photo 10).



Step 5. Identify four Struts of the correct size for this level of the EXR Audio Stand System. Keep in mind that the EXR Audio Stand System is being assembled upside-down, so the first EXR 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 13¹/₂" end-to-end (photo 11) will provide 10" of component spacing.

If you will be using HRS Isolation Bases in your EXR Audio 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 12). For the instructions in this manual, simply treat these assemblies as if they were each a single extra-long Strut.



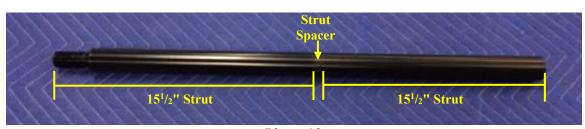


Photo 12

Fully thread one Strut onto the threaded Cap in each EXR Frame Mount (photo 13). A high-quality Tef-Gel lubricant is applied to all Struts of the EXR Audio Stand System at HRS prior to shipping, so they should be ready for assembly with proper lubrication. If you feel metal-on-metal friction, or if the threads squeak during assembly, apply the provided Tef-Gel lubricant by dispensing a line

of Tef-Gel that runs the length of the provided brush (photo 14), and spreading it in a circular motion around the surface along the entire length of the male threads to produce a complete and even coating (photo 15). Repeat this process with a new line of Tef-Gel lubricant on the brush for the mating female thread (photo 16). Use the provided HRS Grip Pad (photo 17) to tighten each Strut between one-quarter and one-half rotation after it contacts the polymer ring.



Step 6. Place a polymer ring around the threads of each Strut. Be sure the polymer rings sit fully on the Strut (photo 18). The polymer ring should sit on the non-threaded shoulder just below where the thread stops.



Photo 18

Step 7. Carefully lift a new Horizontal Support Assembly, and lower it onto the EXR so that the Strut threads pass through the Frame Mounts (photo 19). The Frame Mounts should seat fully onto the threads and rest in full contact with the polymer rings.



Photo 19

Make sure all Frame Mounts are fully seated by measuring the distance from mount to mount at each corner (photo 20). 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 being pinched between a Frame Mount and the corresponding Strut (photo 21). If this is the case, lift the EXR 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 20



Photo 21

Step 8. Make sure there is a polymer ring around the threads protruding through each Frame Mount (photo 22). The polymer ring should sit completely flat inside the Frame Mount.



Photo 22

If your EXR Audio Stand System includes another level, repeat steps 4-8 to install Struts and the EXR 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 EXR, proceed to step 9.

Step 9. Fully thread a Locking Nut onto the threads protruding through each EXR Frame Mount so that the Locking Nuts fully contact the polymer rings you placed in step 8. Thread the Locking Nuts on with the narrow end facing down into the counterbored holes of the EXR 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 should be ready for assembly with proper lubrication. If you feel metal-on-metal friction, or if the threads squeak during assembly, apply the provided Tef-Gel lubricant by dispensing a line of Tef-Gel that runs the length of the provided brush (photo 23), and spreading it in a circular motion around the surface along the entire length of the male threads to produce a complete and even coating (photo 24). Repeat this process with a new line of Tef-Gel lubricant on the brush for the mating female thread (photo 25). 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 26). This final torque provides stiffness to the structure to ensure optimal performance for your system.



Photo 23



Photo 24





Photo 25

Step 10. Thread on the Washers just until they fully contact the Locking Nuts (photo 27), and then thread on the Points just until they fully contact the Washers (photo 28). Do not torque the Washers or Points tightly.





Photo 27 Photo 28

Step 11. Assembly of the EXR Audio Stand System is now complete. Carefully lift and flip the EXR 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 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 another surface you wish to guard against scratching. Please contact your authorized HRS dealer if you require HRS Floor Protectors.



A completed EXR-1921-3V-080-080-B on HRS floor protectors

Leveling the EXR Audio Stand System - The EXR Audio Stand System is now ready to be leveled. Place the provided level on the top EXR Horizontal Support Assembly, 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 the system, ¹/₄ turn at a time, until the stand 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 down with your other hand back against the top of the Point. 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 EXR Audio Stand System (optional) - If your system includes HRS Isolation Bases, unpack each base that will be installed in the EXR Audio Stand System. Make sure to read and follow all of the instructions in the HRS Isolation Base manual(s) prior to installing bases into the EXR. Also verify that the EXR size matches the HRS Isolation Base size(s).

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 corrected.

Load the HRS Isolation Bases into the EXR Audio 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 shelf surface. Sliding HRS Isolation Base feet along the shelf surfaces may scratch them. Make sure that the outside edges of each HRS Isolation Base line up with the outside edges of the EXR Horizontal Support Assembly.

Loading Components into the EXR Audio Stand System - Carefully load each component from the front of the EXR Audio Stand System. Be careful not to hit any part of the EXR or HRS Isolation Bases. If you are utilizing HRS Isolation Bases in your EXR, make sure that none of the HRS Isolation Bases are overloaded. By placing one or two fingers on the bottom of the EXR 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. 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 HRS 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 HRS dealer to have the primary isolation stage rebuilt.

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

Care and Maintenance

The EXR Audio 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 EXR Audio Stand System using a professional quality, ultrasoft, 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 EXR.

Please follow the care instructions in the HRS Isolation Base manual to clean and care for any HRS Isolation Bases installed in the EXR Audio 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 audio stand system or HRS Isolation Bases in water or cleaning solutions. The audio stand system and HRS Isolation Bases are made from many different parts and materials. Submerging, spraying, or soaking the audio stand system or HRS Isolation Base may cause permanent damage to the assembly.

Clean the metallic parts of the HRS Isolation Bases and EXR Audio Stand System using a lint-free soft (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 EXR 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 EXR 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!

Do not place objects with sharp or pointed feet directly on the HRS 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 HRS Isolation Base or HRS Isolation Base Feet 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/companywarranty/ 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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