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, 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 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 airborne 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 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 EXR Audio Stand System. A tall object is any object with a height that is greater than the depth of the EXR Audio Stand System, or 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. Each box containing parts for the EXR Audio Stand System will be marked with a model number starting with "EXR". All the wrenches required to assemble the EXR Audio Stand System are included with the shipment.

HRS recommends that at least two people work together to assemble the EXR Audio Stand System. Some subassemblies can weigh in excess of 25 pounds, and the completed system without HRS Isolation Bases can weigh over 100 pounds, depending on the configuration. Always make sure you have the proper number of people to move the EXR Audio Stand System and its parts safely and easily.

Work Surface - Prior to unpacking any material, locate a very strong and stable work surface (capable of supporting a 250 lb. load), or area on the floor that will give you a very soft scratch-resistant work area, 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, which will prevent damage to the high-quality finish on the audio stand 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 their surface finishes could be damaged. Do not stack the parts on top of each other after 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.

The EXR Audio Stand System will be assembled 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 in place. These EXR Frame Mounts with threaded Caps will be the top of the EXR Audio Stand System.

Your EXR Audio Stand System may arrive only partially assembled. If your system arrives fully assembled, skip the assembly instructions below, and refer directly to "Leveling the EXR Audio Stand System" on page 10.

Step 1. The EXR Audio Stand System will be assembled upside-down. One EXR Horizontal Support Assembly is designated as the top level of the system, and has threaded Caps installed. Do not try to remove these threaded Caps, as they are bonded to the EXR Frame Mounts. Place the EXR Horizontal Support Assembly on your work surface with the threads facing up, and the front face with HRS logo facing away from you (photo 1).

Photo 1

Step 2. Place a polymer ring around the threads protruding through each EXR Frame Mount (photo 2). The polymer rings should sit completely flat inside the counterbores of the EXR Frame Mounts. If your order includes Strut Spacers (photo 3) that are required at this level, install them on top of the polymer rings now (photo 4).

Photo 2

Photo 3

Photo 4

Steps 3-7 describe how to add a second level (and any subsequent levels) to your EXR Audio Stand System. If you are constructing a 1V model EXR Audio Stand System (i.e., a single-level stand), proceed immediately to step 8. (Note that assembly photos going forward show a three-level audio stand system, but that all written instructions apply to any size system, thanks to the modular design of the EXR Audio Stand System.)

Step 3. 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 $13^1/_2$" end-to-end (photo 5) 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 6). For the instructions in this manual, simply treat these assemblies as if they were each a single extra-long Strut.

Photo 5

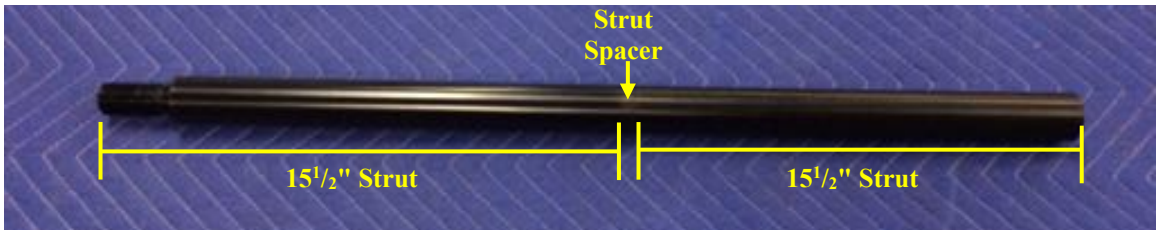

Photo 6

Fully thread one Strut onto the threaded Cap in each EXR Frame Mount (photo 7). 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 along the length of the provided brush (photo 8). 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 9). Repeat this process with a new line of Tef-Gel lubricant on the brush for the mating female thread (photo 10). Use the provided HRS Grip Pad (photo 11) to tighten each Strut between $^1/_4$ and $^1/_2$ rotation after it contacts the polymer ring.

Photo 7

Photo 8

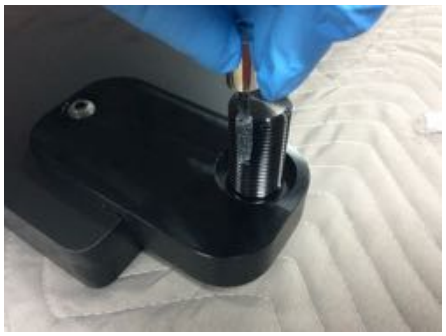

Photo 9

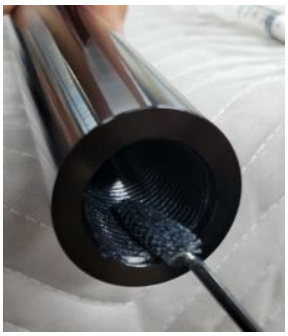

Photo 10

Photo 11

Step 4. Place a polymer ring around the threads of each Strut just as you did for the Caps on the top level. Be sure the polymer rings sit fully on each Strut (photo 12). The polymer ring should sit on the non-threaded shoulder just below where the thread stops.

Photo 12

Step 5. Carefully lower another EXR Horizontal Support Assembly onto the existing structure, so that the Strut threads pass through the EXR Frame Mounts (photo 13). The HRS logos should all face the same direction, and the EXR Frame Mounts should sit fully onto the threads and rest in full contact with the polymer rings.

Photo 13

Step 6. Make sure all EXR Frame Mounts are fully seated by measuring the distance from mount to mount at each corner (photo 14). 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 EXR Frame Mount is not seated correctly, and proper assembly of the system may be rendered impossible**. This is most commonly caused by a polymer ring being pinched between a EXR Frame Mount and the corresponding Strut (photo 15). 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 14

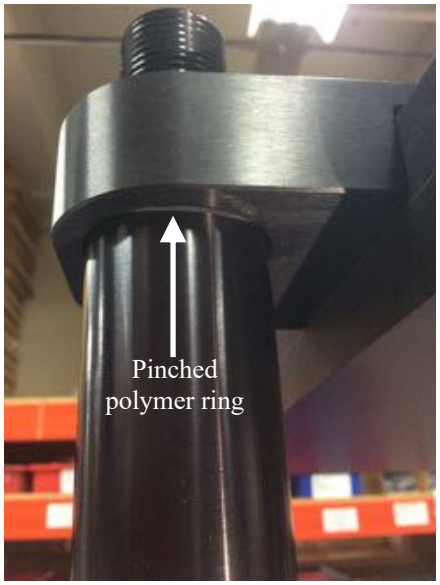

Photo 15

Step 7. Place a polymer ring around the threads protruding through each EXR Frame Mount. The polymer rings should sit completely flat inside the counterbores of the EXR Frame Mounts. If your order includes Strut Spacers that are required at this level, install them on top of the polymer rings now.

If your EXR Audio Stand System includes another level, repeat steps 3-7 for the next EXR Horizontal Support Assembly to add it to the stand. Be sure to select the correct size of Struts 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 Audio Stand System, proceed to step 8.

Step 8. 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 7. 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 along the length of the provided brush (photo 16). 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 17). Repeat this process with a new line of Tef-Gel lubricant on the brush for the mating female thread (photo 18). 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 19). This final torque provides stiffness to the structure to ensure optimal performance for your system.

Photo 16

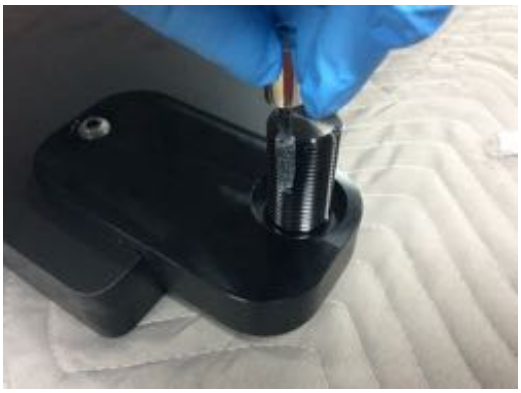

Photo 17

Photo 18

Photo 19

Step 9. Thread on the Washers just until they fully contact the Locking Nuts (photo 20), and then thread on the Points just until they fully contact the Washers (photo 21). Do not torque the Washers or Points tightly.

Photo 20

Photo 21

Step 10. Assembly of the EXR Audio Stand System is now complete. Carefully lift and flip it upright, and move it to the desired final location for use in your system. Depending on the size of your EXR Audio Stand System, this may require multiple people. Make sure to orient the EXR Audio Stand System so that the front face with the HRS logo(s) faces forward. The 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 HRS or 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 it, $^1/_4$ turn at a time, until it 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 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 EXR Audio Stand System (optional) - If your system includes HRS Isolation Bases, unpack any 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) before installing anything into the EXR Audio Stand System. Also verify that the distance between the front and rear Isolation Base Feet is less than the depth of the EXR Audio Stand System, so that no part of them will overhang.

Note the load range of each HRS Isolation Base to determine which component of your system each one 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.

Do not lift HRS Isolation Bases by the inner plate or the external feet attached to the bottom of the rectangular frame. Always lift or move the HRS Isolation Base with the inner plate facing up and the external support feet facing down (the same orientation as when used to support your component). Always follow these handling instructions to prevent personal injury or damage to the unit.

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

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 system or HRS Isolation Bases. If you are utilizing HRS Isolation Bases in your EXR Audio Stand System, make sure that none of them 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. G7 Feet 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. Please consult your authorized HRS dealer or contact Harmonic Resolution Systems if you need assistance. The HRS Isolation Base load range can be 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 EXR Horizontal Support Assembly of the EXR Audio Stand System is 250 lbs (113 kg). Only load up to 250 lbs onto any single EXR Horizontal Support Assembly of the EXR Audio Stand System, and 1,000 lbs onto the complete system, whichever is less.

Modifying or Expanding Your EXR Audio Stand System - Please contact HRS or your authorized HRS dealer if you would like to modify your EXR Audio Stand System. Thanks to the modular design of the EXR Audio Stand System, expanding your system by adding layers, or even splitting into multiple stands, can be done in your own home with parts available from HRS. Simply remove all components from your EXR Audio Stand System, and turn it upside-down on a work surface prepared the same as for the original assembly process. Remove the Points and Washers by hand, and use the provided custom nylon wrench to remove the Locking Nuts. After that, EXR Horizontal Support Assemblies and Struts can be added, removed, and interchanged freely. Make sure to install and tighten all parts according to the original assembly instructions in this manual.

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, 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 EXR Audio Stand System.

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 EXR Audio Stand System and HRS Isolation Bases are made from many different parts and materials. Submerging, spraying, or soaking the EXR 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, 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 Audio Stand System or HRS Isolation Bases, as they may damage the quality of the surface finish. Solvents and solvent-based cleaners will attack and damage the materials used in the EXR Audio Stand System and HRS Isolation Bases, 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/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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