

OutdoorAudio

DeckTunes® Hardscape Installation Instructions and Owners Manual



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THANK YOU FOR YOUR BUSINESS. IF YOU ARE NOT COMPLETELY SATISFIED WITH YOUR PURCHASE FOR ANY REASON, PLEASE CONTACT US IMMEDIATELY.

Our entire purpose as a company is to create great products at affordable prices that our customers love.

IMPORTANT

Please read these instructions and become familiar with all parts prior to installing or operating your new DeckTunes unit to ensure a proper, trouble-free installation.

Important Notes on Installing and Using Your New DeckTunes Unit

Safety

- Read the entire manual before operation.
- WARNING - To reduce the risk of electrical shock:
 - **Never open or wash the unit unless it is unplugged from power outlet!**
 - Never insert any objects into or attempt to disassemble the internal power supply.
 - Do not plug or wire unit into any circuit that is not GFCI protected.
 - Make sure main enclosure is sealed at all times other than during installation.
 - If unit is to be hardwired, a licensed professional electrician is recommended.
 - Do not immerse in water. This product is weatherproof and is therefore water resistant and splash proof but was not designed to be immersed in or come into continuous contact with water other than during a rain or routine cleaning.
- WARNING - To reduce the risk of fire, never store any flammable items inside enclosure and do not cover or otherwise obstruct the louvered vents on sides of unit.
- Should you notice an abnormality with the unit, unplug it immediately and contact us for further assistance.

Placement

- Do not mount in close proximity to high heat sources.
- Attempt to mount in a location that will minimize exposure to direct sunlight if possible.
- If used near a pool or lake, mount in a location that will minimize exposure to water.
- Make certain any holes drilled for custom wire routing or mounting purposes are completely sealed with a waterproof product rated for outdoor use and exposure to direct sunlight.

Operation

- Whenever possible, keep the multimedia storage drawer closed. Doing so will protect any connected players in the event of an unexpected splash or rain shower.
- Do not allow water to enter the media drawer or 12 Volt receptacle as this may cause damage to the components.
- When securing the front cover, it may be necessary to apply slight sideways pressure on either the bottom right or left corner of the enclosure cover (light gray fiberglass, not the stainless steel cover plate) in order to line up the holes in the cover with the ones behind it so you may easily insert and fully tighten the knobs without cross threading them.

Cleaning

- Your DeckTunes unit can be wiped down, hosed off and even pressure washed if necessary however, you will need to observe a few precautions. If the case or cover is only mildly soiled, 409, a fiberglass cleaner or stainless steel polish of your choice and a rag should be all you need to restore it to a factory fresh finish. If more aggressive cleaning is necessary, before washing, make certain unit is unplugged from the power outlet and ensure the knobs on the face of the enclosure are snugly fastened. While washing, avoid directing the spray from your garden hose or pressure washer directly towards the grills on the sides of the unit. After washing, open the enclosure and inspect for the presence of any water. Dry any damp surfaces by wiping with a soft towel and re-secure enclosure cover with knobs before plugging back into a GFCI protected outlet. Waxing the fiberglass portions of unit after washing is an option that will keep the finish nicer, longer.

Parts List

- DeckTunes Hardscape Unit Pre-Mounted to Support Shelf with Inner Rails - Qty 1
- Outer Rails to be Mounted in Cavity - Qty 2
- Nylon Adjustment Spacers - Qty 3 Sets of 4 Each
- CAD Drawing depicting Cavity Cutout Dimensions and Mounting Notes - Qty 1
- JBL Marine Stereo Users Manual - Qty 1
- Sirius Satellite Receiver Antenna and Instruction Sheet - Qty 1 Each
- Waterproof and Floating Remote Control - Qty 1
- Replacement Filters - Qty 1 Set
- 4" Zip Ties - Qty 4
- 8" Zip Ties - Qty 4

Tools Needed

- Anchors and/or Fasteners for Mounting Outer Rails within Cavity
- Hammer Drill
- Masonry Bit of Appropriate Size (For Anchors and/or Fasteners)
- Drill or Driver for Installing Outer Rails
- Hammer (For Installing Anchors)
- Level
- Ruler or Tape Measure
- Wire Strippers
- Wire Cutters
- Marking Instrument (i.e. Sharpie)
- Steel Punch (Optional but Recommended)
- Small Socket Set or Nut Drivers and Small Adjustable (Crescent) Wrench
- Utility Knife or Box Cutter
- Small Phillips and Straight Blade Screwdrivers (If unit is to be Hardwired vs. Plugged In)

Ten Steps

There are ten simple steps required to mount your new unit and by following the details and notes outlined below, installing your new unit should be fairly straight forward and relatively easy however:

If you are not handy or comfortable with the use of power tools and mounting fixtures into masonry type materials, we strongly suggest that you employ the assistance of someone who is.

The ten steps required are:

1. Mounting the sliding rails into the cavity with 4 anchors and screws.
2. Inserting the unit and joining the rails attached to the shelf with those inside the cavity.
3. Making any horizontal or vertical adjustments that may be necessary to ensure a proper fit within the cavity and proper closure of the unit so that when it is slid fully into the cavity, it remains in place and that the Stainless Steel cover plate is as flush up against the face of the masonry surface as possible.
4. Opening the front cover by removing the two knurled knobs located in the bottom left and right hand sides on the front of the unit.
5. Running your speaker wires in through the back of the unit and connecting them to the speaker connection blocks located inside the unit, just under the front cover.
6. Re-securing the front cover by replacing the two knurled knobs.
7. Connecting the unit to power.
8. Applying ty-wraps or zip ties around the speaker and power cables through the two black strain-relief clips located on the back of the support shelf.
9. Adjusting the fit of the unit and carefully removing the white, protective PVC coating from the Stainless Steel cover plate and polishing it if desired.
10. Powering up the unit and enjoying it.

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Specific Details and Important Notes

Unpacking the Unit

The best method for removing the unit from its packaging is to place it on a smooth, flat surface with the sticker that reads "Open this Side Only" facing up. Next, carefully cut the box open and remove the inner box. At this point, the outer box may be set aside. With the inner box having the sticker that reads "Open this Side Only" facing up, cut it open along the middle and top edges. Now that you can see into the box, use a razor knife or box cutter to cut from the ground up, vertically along all four edges of the box allowing the box sides to fall flat onto the ground around the unit. Leave the unit in place until indicated otherwise below.

Note: If possible, storage and retention of the original packaging may be desirable in case the unit may ever need to be returned for service or repair.

Verifying Installation Cavity Dimensions

If either the vertical height or the horizontal width of the installation cavity is less than the dimensions depicted on the attached drawing, they will need to be increased to the specified dimensions.

If the vertical height of the cavity slightly exceeds the specified dimensions, the placement of the rails inside the cavity will need to be raised slightly above the bottom of the cavity accordingly so that when the unit is installed, no gaps will be present above or below the cover plate when the unit is slid fully into the cavity.

Adjusting Width of Support Shelf & Inner Rails - (If Necessary)

If the horizontal width of the cavity slightly exceeds the specified dimensions, the width of the support shelf and attached inner rails may be adjusted accordingly by using nylon spacers. Three sets of these spacers with varying thickness are included in the box that contains the outer rails. To increase the width of the shelf and inner rails, first you will need to determine which set of spacers are needed using a ruler or other measuring device. Next, you will need to remove the two bolts and nuts from the inner rail located on each side of the support shelf.

Note: These bolts have an anti-seize compound on them which can be a bit messy so having a rag to wipe your hands handy will be a good idea but DO NOT remove the compound from the bolts or nuts as it is necessary to prevent the nut from binding to the bolt when re-tightening.

Once the rails are removed, place two washers against the shelf on one side and reattach the inner rail to the shelf. Repeat the procedure for the other side. (See notes below)

Note: Make sure to replace the inner rails in the same direction that they were facing before they were removed.

Note: When re-tightening the bolts, make sure the edges of inner rails remain flush with the top and bottom of the support shelf in both the front and back of the shelf. This step may require the assistance of a helper to complete.

Mounting the Outer Rails

After...

- The dimensions of the cavity have been adjusted (if necessary);
- The mounting height of the outer rails within the cavity has been determined;
- The width of the support shelf and inner rails has been adjusted (if necessary);

The outer rails may then be mounted within the cavity.

To mount the rails, place one of them within the cavity at the appropriate height. Next, bring the rail forward so that the end barely sticks out from the front edge of the cavity by about 1/8"

Note: This tiny bit of protrusion will allow the inner rails to positively lock in place with the outer rails when the unit is slid fully into the cavity.

Next, while holding the rail in place against the mounting surface by its top and bottom edges, slide the middle part of the rail outward towards the front of the cavity so you can see the mounting holes behind it. Now locate the mounting holes in the front and rear of the rail that are slotted horizontally.

Once you have the rail in the proper position and you have ensured that it is perfectly level, mark the **absolute center** of the two horizontal mounting slots using a Sharpie or other marking instrument. Repeat the above procedures for mounting the opposite rail.

Note: Be certain to use the horizontally slotted holes for mounting the rails and NOT any of the round holes as this will allow you to adjust the depth of the rails later, if necessary.

Note: Before drilling the holes, it is recommended that you use some type of metal, blunt instrument such as a nail set or punch and a hammer to create starter indentions in the center of the holes to be drilled as this will help prevent the drill bit from 'walking' off the marks when drilling.

Once the holes for the rails are marked, drill the appropriate sized holes for the anchors of your choice using a masonry bit and hammer drill.

Note: Although various types of masonry anchors and fasteners may be used, we recommend a brand named Sharkie by Hillman in a 3/16" diameter with 1 1/4" long screws (included with the anchors) which may be purchased on-line or at home improvement stores such as The Home Depot.



Mounting the Outer Rails - (Continued)

Note: Regardless of the anchors and fasteners you or your contractor chooses to use for mounting the rails, you will need to ensure that the thickness of the head of the screws does not interfere with or impede the sliding motion of the rail sections within the cavity. To make sure this will not be a problem, take one of the rails to be mounted in the cavity in your hand and fully extend it, then drop the fastener or screw into the slotted hole and attempt to slide the sections of the rail closed again to see if there will be enough clearance for the rail to slide shut properly.

After the pilot or anchor holes are drilled, mount the rails within the cavity using the chosen anchors and/or fasteners.

Note: Once mounted, the rails should be flush and straight up and down against the mounting surface. If either of them are leaning inwards or outwards, towards or away from the mounting surface, the fasteners will need to be loosened and some type of shim material will need to be placed behind them to adjust them and then the fasteners will need to be re-tightened.



Rails Properly Mounted in Cavity

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Inserting the Unit into the Cavity

After the rails have been mounted and adjusted (if necessary) you may then slide the DeckTunes unit into the cavity by inserting the support shelf and inner rails into the outer rails located within the cavity. The use of a helper is highly recommended when performing this step. The best method of accomplishing this is to pull both rails all the way forward out of the cavity. Next and with the assistance of a helper, pick up the unit and slide the inner rails attached to the support shelf into the rails that are extended from the cavity.

Note: Make sure that the both inner rails slide COMPLETELY into the outer rails as this will lock them together.

Next, push the unit fully into the cavity and then when your helper is ready to catch the unit in case it falls, slowly pull the unit towards you as far as it will go. If the rails are properly engaged with one another, you will only be able to pull the unit out of the cavity so far before it will stop. If the rails are not engaged with one another properly, the unit will simply keep coming until the rails separate and the unit will fall downwards. If this happens, repeat the steps above until the rails on both sides are properly engaged with one another and the unit can no longer be completely removed from the cavity.



Unit Properly Mounted in Cavity

Connecting Speakers

Once the unit is mounted, you may then run your speaker wires into the unit and connect them. To do so, simply remove the knobs on the front cover and open it. Next, remove the black strain relief fitting from the back right side of the unit (as you're facing it) and push your speaker wires into the hole and beyond the front of the unit. (You may place the strain relief fitting back into the hole around your cables if desired but it is not necessary and may be discarded otherwise.)

Note: When opening the front cover, please be aware that due to the stainless steel plate on the front, the cover can not be opened beyond a 90 degree angle without causing damage to the plate.

Connecting Speakers - (Continued)

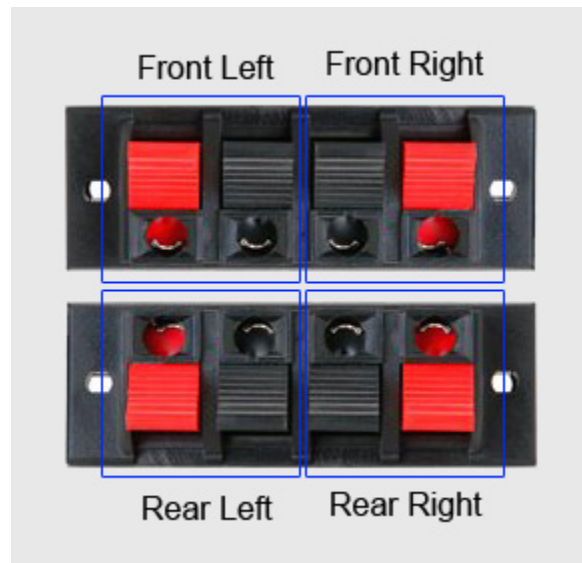
Note: Although the corners of the cover plate are slightly rounded, caution should still be used when working near them, especially regarding your eyes.

Once the speaker wires have been inserted into the back of the unit and pulled to the front, you may connect them to the appropriate speaker connection blocks as shown below.

Start by stripping off approximately ¼" of insulation from each wire and then connecting them to your DeckTunes unit by pressing in on the appropriate red or black tab, inserting the stripped portion of each wire in to the hole and releasing the tab.

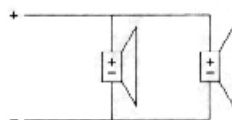
Note: Remember to use the proper wires from the negative and positive terminals from your speakers when making your connections to the unit or your speakers will operate out-of-phase with one another which will result in poor quality sound and will eventually damage the amplifier beyond repair.

Note: In most cases, 2 pair of speakers (4 total speakers) is more than sufficient to provide ample volume and coverage in most typical outdoor listening environments and in some cases, a single pair is all that is required or desired. If you are connecting 2 pairs, simply connect them to each of the four amplifier channels shown below and if you choose to use only 1 pair, it does not matter whether you connect them to the Front or Rear set of speaker terminals.



Note: In your particular case, if more volume or coverage is desired, a maximum total of 8 individual speakers may be connected to your unit however, a maximum of only 2 speakers may be connected to any of the 4 amplifier channels shown above and the speakers must be wired in parallel with one another as depicted by the diagram below.

SPEAKERS WIRED IN PARALLEL



MAXIMUM OF TWO TOTAL SPEAKERS PER AMPLIFIER CHANNEL

Connecting the Unit to Power

Once the speakers have been connected and the cover has been securely fastened with the knobs, the unit may then be connected to 110 Volt AC power by plugging the power cord into a GFCI protected outlet with a weatherproof cover.

Note: If more power cord length is necessary, using an extension cord or splicing additional cable onto the existing cable are options however, be sure that in either case all connections or splices are totally sealed and watertight! If you have the least bit of doubt regarding the watertight integrity of the connections or splices, consult a licensed electrician before applying power and attempting to use the unit.

Note: The unit may optionally be hardwired directly into a circuit without using the plug or an outlet however, we strongly suggest that this procedure only be performed by a licensed, local electrician. Should you wish to have the unit hardwired, your electrician will need to open the front cover and remove the 4 screws from the access cover located on the lower portion of the power supply which is located on the left hand side of the backboard. The wires from the power cord will need to be removed from the power supply and then the entire power cord should be removed from the unit. Once this is done, the electrician may then connect the wiring from the hardwired circuit to the power supply (see wiring diagram on the front of the power supply access cover). Afterwards, the power supply access cover should be replaced and the front cover of your unit should be re-secured.

CAUTION: Do not remove the ground prong from the power plug and never connect the unit to an outlet or circuit that is not GFCI protected!

Strain Relief for Cables

Because this unit operates in a sliding fashion, it is important to make sure the power and speaker cables do not get pulled on when the unit slides in and out of the cavity. To provide strain relief for the cables, slide the unit fully out of the cavity by grabbing the knobs on the front and pulling the unit towards you until it stops. Next, using zip ties, attach the cables to the two black plastic tie-down loops located on the middle, rear area of the support shelf behind the unit.

Note: It is not necessary to run the cables 'through' the loops as long as they are securely fastened to the top of the loops using zip ties. Using two zip ties in an "X" fashion on each of the loops and around the cable bundles is recommended.

Adjusting the Fit

One of the last steps required is to adjust your unit for proper fit within the cavity and then to remove the white, protective PVC coating from the front. When the unit is properly installed, it should be level and remain in the closed position when pushed fully into the cavity. Also, the cover plate should be relatively flush against the cavity's outer surfaces with very minor or no visible gaps.

Note: Before making any adjustments, be sure the knobs on the front are screwed in all the way until the back of the cover plate is touching the end of the rails on both sides of the support shelf.

If any adjustments to the fit are required, the front to back position of the unit within the cavity may be moved slightly inwards or outwards by loosening the 4 outer rail screws, sliding the rails backwards or forward and retightening the screws. If the unit or cover plate needs to be adjusted for level or plumb, the 4 bolts and nuts that attach the inner rails to the support shelf may be loosened and the shelf can be adjusted slightly upwards or downwards as necessary and then the 4 bolts and nuts may be retightened.

Adjusting the Fit - (Continued)

Note: Due to the unevenness of some types of masonry surfaces, even after making any necessary adjustments to the fit of the unit, slight gaps may still be present between the cover plate and mating surface when the unit is fully pushed into the cavity. Although this will not affect the operation or weatherproof integrity of the unit, you may purchase and place some narrow weather-stripping of the appropriate thickness to the outer edges on the back side of the cover plate to conceal or reduce the gap if desired.

Removing the Protective Coating

Once all of the steps above are complete, the final step is to remove the white protective coating from the cover plate and polish it if desired. To remove the coating, start peeling it from one corner working your way upwards or downwards until fully removed.

Note: When removing the coating from around the black faceplate, using two hands and taking your time, the cover will peel away from underneath the faceplate edges perfectly and effortlessly.

Note: Should the coating tear or should there be any individual pieces left on the cover plate, DO NOT use any type of sharp object to remove them or permanent scratching of the cover plate may occur.



Properly Mounted DeckTunes Hardscape Unit

Operating Your Unit

Congratulations, you are now ready to operate and enjoy your new DeckTunes Hardscape unit!

For details on operating and accessing the features of your unit, please refer to the included JBL Marine Stereo users manual.

Note: The first time you power on your unit, you may want to program settings such as the time and a few of your favorite radio stations. When using the Sound Quality (SQ) settings, it may be necessary to reduce the Bass level by a couple of dB to prevent distortion at high volume levels. Depending on your speakers and particular song, it may also be necessary to reduce the Treble.

Troubleshooting

Should you experience any issues with your unit, please visit the FAQ section of our web site. If you are unable to find a resolution to your issue there, please call us toll free at 800-240-6845 or send us an email to Support@OutdoorAudio.com

Maintenance

Every few months, you should inspect the unit to ensure that the exhaust fan is operating, the filters are clean, the vents are unobstructed and that no moisture is in the unit. The cover must be opened to complete this check so please remember, always disconnect power to the unit before opening the cover. In addition, keeping the unit clean and polished will help preserve its finish.



Warranty & Money Back Guarantee

We are committed to happy customers. If you are not satisfied with your Outdoor Audio product purchased directly from us, just ship it back within 30 days and we will happily refund your money.

Your refund will be processed within a few days of our receiving the return. Please include a note indicating why you are returning the item.

Products can not be damaged, modified in any way or missing parts and the customer is responsible for shipping costs to return the items. If your DeckTunes unit is missing anything, or you lose something, or something is wrong when you receive it, just give us a call and we will promptly address the issue at no cost to you.

In addition to our Satisfaction Guarantee, DeckTunes also carries a 1-Year Warranty against defects in parts or workmanship.

Any duties, freight, taxes, customs fees and other such costs are not included in the money back guarantee.

We're audiophiles that love what we do - Working really hard to deliver high quality and affordable products to others like us. We strive to make every customer happy and all our rules are only guidelines. Feel free to contact us at any time at 800-240-6845!

Please visit our web site for speakers, accessories, new items, frequently asked questions and more!

www.OutdoorAudio.com

☺ **SHAMELESS BRIBE** ☺

Thanks again for your purchase and remember to send us a few pictures of your final installation AND YOUR SHIRT SIZE for a Free Outdoor Audio T-Shirt.

You may send them to support@outdooraudio.com or via postal mail to:

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We would also appreciate it if you would take a minute to visit our Message Board and leave us some feedback in the form of comments and / or suggestions. You can also upload pictures of your installation there. To reach the board, please visit :

<http://www.outdooraudio.com/forum.htm>