

**ASSEMBLY INSTRUCTIONS
FOR STAGING DIMENSIONS INC.
PORTABLE STAGING PRODUCTS AND ACCESSORIES
INCLUDING THE FOLLOWING:**

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- SD6000 PORTABLE STAGE DECKS
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Congratulations on your purchase of a quality portable staging system from Staging Dimensions Inc. The following are detailed instructions to aid you in your set-up of whatever component you purchased. Our engineers have designed each and every component to be assembled with ease by you with as minimal amount of labor and tools as possible. Our first and foremost concern is the safety of you and whoever will be using our products, so please take extra time to make sure that you have assembled everything correctly as instructed before using. Staging Dimensions Inc. assumes or accepts no responsibility for any damage or failure to any of our stage components or injuries to person or persons due to improper installation. In the event you are having difficulty assembling any component of your system, please contact Staging Dimensions Inc. at toll free 1-866-591-3471 for immediate assistance. In the unlikely event some damage has occurred during the shipping process, do not attempt to install the damaged component. Contact Staging Dimensions Inc. immediately for assistance.

GETTING STARTED:

Depending on the system you purchased, unpack and locate all of the parts or components that were included in your shipment and organize them so that you can find them as needed during the set-up process. Some of portable stage decks and components are bulky and heavy, so we recommend a minimum of two people for each set-up. Depending on the size of your stage, more people may be needed to speed up the process. The only tool needed to install a deck or stair unit is a 5/16-inch hex head T-Handle wrench which was included in your shipment. In the event you ever misplace your T-Handle, a standard 5/16-inch Allen Wrench available from any hardware store will work perfectly.

Depending on what you ordered, any hardware required for your system will be either located in a box on the pallet or inside one of the bottom cavities of one of the decks on your pallet. This is probably where you will also find your legs for your decks, so make sure you unpack the entire pallet to make certain that you have all of your parts and accessories. Now that you are organized and have found everything, including your 5/16-inch T-handle, lets get started with the easy set-up procedure.

SD5000 OR SD6000 STAGE DECK:

Every standard stage deck comes equipped with a series of coffin locks, called Dual Lock, installed in the frame around the deck. Each deck has 3 male and 3 female locks for the purpose of locking each deck together assuming you have more than one deck. The locks are located 2 feet in from each corner so on a 4 x 8 deck, there will be one lock dead center on the 4-foot side and one lock located 2 feet in from each corner on the 8-foot side. There will be a male lock on one end followed by 2 more male locks down one side. The other end will have a female lock followed by two more female locks down the other side. The only time this could change is if you have a deck other than 4 x 8 and then they will be installed as needed for the size of the deck. The only time you need to be concerned about which end or side has a male or female lock is on the first deck you install. If you set the first deck up with the male locks to the right, then every deck that you put along side of it must have the male locks to right. Once you do this correctly, the female lock will automatically be on the left side and you will be able to lock the decks together with ease. The male lock is easily identified as the lock having a small hole drilled on the deck surface. Once you start the second row, just make sure you are lining up a male lock to a female lock and if you make a mistake, just turn the deck 180 degrees and it will line up perfectly. A helpful hint is make sure you level your decks as you go with the 2 inch adjustable screw foot located on each leg. You can use a level or just make sure one deck is flush with the one along side of it. This will allow you to activate the locks with ease.

INSTALLING STANDARD LEGS:

There are 3 ways to support a SD5000 or SD6000 portable stage deck. The first is with standard legs, the second is with adjustable legs and the third is with our Wunderstructures. Each standard deck come equipped with four corner sockets that are designed to receive 1 leg each. A standard leg comes with a 2-inch adjustable screw foot with neoprene pad for leveling and each deck required 4 legs. While one person holds the deck upright, the second person inserts the legs into each corner socket. Once inserted, tighten the thumbscrew clockwise until it is tight and the leg cannot be pulled out. Once you have installed all 4 legs, lift and set the deck on the floor on all 4 legs. Be careful not to roll the deck on two of its legs instead of lifting it as it may cause damage to the corner socket and possibly bend your legs. Now go on to the next deck and repeat the same process.

INSTALLING ADJUSTABLE LEGS:

Adjustable legs are a set of legs that can be adjusted in 2-inch increments for multiple heights using one set of legs. Each legs has a series of holes drilled every 2 inches and come with a snap button for changing the height of the leg. To change the height of each leg, simply squeeze both sides of the snap button, rotate the inner tube a little to the left or right and slide the inner tube to the desire hole. Then rotate the inner tube back until both snap buttons are securely locked back into both holes. Additionally, each adjustable has an additional 2-inch adjustable screw foot like the standard leg for fine leveling. The adjustable leg installs in the leg socket exactly as above for the standard leg so follow those instructions.

LOCKING THE DECKS TOGETHER:

Once you have installed the legs on each deck, you are ready to lock each deck together. You can choose to lock the decks together as you go or wait and do them all at once. We prefer to lock and level as you go but do what ever is comfortable. To lock a deck into each other, make sure you have a male or female lock side by side as described above. Additionally, make sure your deck is level with the next deck so the locks line up. Using the T-Handle wrench, insert it into the hole drilled into the top of the deck and into the lock. Locks must be reset so you need to turn the lock all the way to the left. Then turn the lock to the right to activate until you feel the cam roll into place and it appears tight. If you are unsure, turn it back to the left and try again. You can also activate the lock from the bottom side of the deck as the hole goes straight through. Decks have the ability to be locked together side by side, end to end or side to end as long as you can lock up a male and female lock. This gives you the flexibility of multiple configurations using the same decks.

LEG CLAMPS:

There are two types of leg clamps, 2- leg and 4- leg. Legs clamps are recommended on stage heights 24 inches and above when using standard or adjustable legs. The leg clamps keep the legs from spreading out as leg heights get higher resulting in a more stable stage. They are easy to install and are well worth the investment. Additionally, they are used to connect one stage to another when using your decks as seating or choral risers at multiply heights. A 2- leg leg clamp has 2 pieces of flat bar metal with a bend on each end, a threaded bolt in one of the pieces and a plastic threaded thumbscrew. A 4-leg leg clamp is exactly the same except it has a metal tube used as a spacer that slides over the bolt. To install a 2-leg leg clamp to a same height stage, go to wherever there are 2 legs side by side. Using the piece with the bolt, slide the bolt between the 2 legs and attach the other piece and thumb screw and tighten until tight. The clamps should be located about 6 inches from the floor on the legs. To install a 4-leg leg clamp, use the same process except you have a spacer to install. Go to where there are 4 legs side by side. You need to install the spacer in between the 4 legs to keep the legs from compressing together when you tighten the clamp.

FIXED HEIGHT OR ADJUSTABLE STAIR UNITS:

A fixed height stair unit is a stair that has a certain number of steps and can only be used for one stage height. An adjustable stair unit has the ability to be used at different heights and is easily adjusted. To install a fixed height stair with handrails, set the stair unit up next to the stage with the 2 steel plates resting on the deck surface. Then insert a handrail in each side making sure that the upright with a threaded insert on the bottom of the handrail upright is installed at the top of the stair with the clamp. Once you have the handrails in place, take the bottom part of the clamp and slide it up on the bottom of the handrail with the threaded insert and install the acme threaded bolt with a handle on it and turn until tight. Do the same for the other side of the stair. Make sure the bottom clamp with the tube spacer welded to it fits snugly behind the stage frame extrusion. Once you have both handrails in place, you still need to install a thumbscrew on each side of the handrails near the bottom the stair unit on each side. Insert and tighten the 3/8-16 x 1" bolt/thumbscrew in the treaded insert and tighten. Each stair is equipped with adjustable screw feet for fine leveling if needed. In the event you purchased your fixed height stair without handrails, a special clamp for connecting to the stage will be included and follow the same process. In the event you purchase a one step stair unit, that unit does not come with handrails. To install a one step stair unit, place the stair in the desired location. There are 2 flat bar brackets with hardware that need to be installed onto the side of the deck in the extrusion. Turn the half moon bracket into a locking position and hand tighten the thumbscrew.

If you have purchased an adjustable stair unit, follow the same set up instructions as the fixed height stair. Once you have it in place on the deck, you need to loosen the silver handles located on the sides of the stair unit. This will allow the stair to articulate to the correct height of the stage. Making sure the stair treads are level, tighten the silver handles to prevent the steps from rolling. The stair also has adjustable screw feet for fine leveling.

GUARDRAILS:

Guardrails are used to prevent someone from falling off of the stage. Depending on your local codes which vary from state to state and you need to know, guardrails are recommended at heights 24 inches and above. There are two types of guardrails. The first is the standard version, which is 42 inches high with a center bar running horizontally, and a chair stop located at deck level. The second version is UBC that has vertical bars every 4 inches and is also 42 inches with a chair stop. Again, you need to refer to your local codes to determine if you need standard or UBC guardrails. The guardrail uses a jaw type clamp for installation to a stage deck. The bottom part of the clamp uses a ACME thread bolt (which is a bolt with a very course thread and easy to identify) that has a handle on the bottom of it for tightening. You may want to attach the bottom part of the clamp and the ACME bolt with handle to the guardrail before you place it on the stage. Once you have the clamps in place, using two people, set the guardrail in the desired location on the stage and tighten the clamps until as tight. All guardrails are 2 inches shorter than the exact size you ordered to allow two guardrails to come together in a corner. An example is if you ordered an 8-foot guardrail, it will actually be 94 inches long. For correct installation, just bring it in 1 inch from the deck corner and it will work perfectly. There is a lip on the bottom clamp to prevent it from sliding off so make sure when it is installed that the lip is behind the deck extrusion. Double check the tightness of the clamp to assure they are tight and properly installed.

STAGE SKIRTING:

Stage skirting is used to mask the front, back or sides of your stage. It is available in a fixed height or adjustable heights. Skirting comes standard with loop Velcro sewn onto the skirting and your stage deck comes standard with hook Velcro indented into the frame around the complete perimeter of the deck. Decide where you want your skirting and simply line up the loop Velcro on your skirting with the hook Velcro on the stage, press together and it will stay in place. Skirting is typically cut ½ to 1 inch shorter than the stage height to allow for proper hanging.

CHAIR STOPS:

A chair stop is a 1 x 2 aluminum tube that is attached to the side of a stage deck to prevent a chair from sliding off the stage. Each chair stop comes with 2 flat stock aluminum brackets welded to the side of it for attaching to the side of the stage deck. The brackets have a hole drilled through them with a half moon bracket and a plastic T-Knob bolt for securing to stage deck. To install, place the chair stop in the desired location, loosen up the half moon bracket so it can make a half turn into the side of the stage deck extrusion and tighten the T-Knob. This will secure it in place. If you are having difficulty getting the half moon in place, try loosening it a little more until to can maneuver it into place.

CROSS-BRACING:

Diagonal Cross braces are used to help stabilize a stage using standard or adjustable legs and is recommended on stage heights over 40 inches. Cross braces are used both on the short side and the long side of the deck and the length of each brace will be determined by your leg height and will be cut at the appropriate length for your stage at the factory before shipping. Our cross braces are designed so they can be attached after the stage has been erected. The cross brace consists of an aluminum square tube and will have either a single clamp, for attaching to a single leg, or a double clamp, for attaching where 2 legs come together. The clamp is attached to the tube with a bolt and the clamp wraps around a leg, or legs, and is secured to a leg just like a leg clamp. Simply place the cross brace clamp in the desired location on the legs and attach the backside of the clamp and bolt and tighten. It is designed to be a diagonal brace so place 1 end approximately 6 inches from the top of the stage on the leg and the other end approximately 6 inches from the bottom of the stage on the leg. If you are using cross braces, you should also be using leg clamps so you will be able to skip every other section. Again, it will depend on your stage height and application as to what needs to be braced and your SDI representative will make that recommendation when you make your purchase. If your stage has an unusual amount of wobble, contact Staging Dimensions immediately before using for assistance.

STORAGE CARTS:

All storage carts are shipped without the casters attached to minimize damage in shipping and assembly of the casters is required. All you need is a 9/16-inch wrench or socket and all nuts, bolts and washers are included. All holes are predrilled to match the caster plate and we recommend that you drop the bolt through from the top and attach the locking nut on the bottom. Make sure all nuts and bolts are tight before using.

We make numerous designs of storage carts designed to fit every application. We offer a 6 & 8 Deck Vertical Cart, a 15 Deck Flat Cart, a Guardrail Cart and a Wunderstructure Cart. The vertical deck carts are designed to store the decks on their side and include an upright tree in the center of the cart. On top of the tree, you will find 2 brackets that are slotted, to be utilized from 1 to 4 decks depending on your model. Place the first deck on the cart next to the tree and if you are storing only 1 deck, find the appropriate slot in the bracket and secure the deck in place on both ends of the deck. You can add more decks by just moving the brackets. There is an optional storage basket available for storing legs, clamps and misc. stage items that is attached to the top of the tree on both ends. Your vertical cart will come with the holes pre drilled so a basket can be added later if you choose.

For the flat cart, the decks will lay flat on the cart and we recommend that you lay the deck with the surface face down. This way you can store your legs and clamps in the bottom of each deck and will make your next set up easier. The flat cart has a removable push handle that slides into either end of the cart and is pinned in place. The push handle can be removed for storage under the stage or wherever.

The guardrail and Wunderstructure carts are designed like the vertical deck carts except they have moose ear type brackets welded to the center tree for hanging the guardrails or Wunderstructures. The end of the moose ears will have a stop welded on it to prevent the guardrails or Wunderstructure from sliding off.

To store, just hang the guardrails or wunderstructures on the moose ears and they stay place. Depending on what you ordered, the cart may be custom designed for your particular order and will accommodate both guardrails and Wunderstructures.

SEATING OR CHORAL RISERS:

Using a different height leg at each level, any of our standard stage decks can be used as a choral, seating or multi level riser. For example, if you wanted a 3 level riser 12 feet deep x 16 feet wide you would use 6 each 4 x 8 decks. You would lock 2 decks together on the 4-foot side and add a set of 8-inch legs for the first row, 16-inch legs for the second row and 24-inch legs for the third row. Once you have each level in place and adjoining each other, use both the 2 leg and 4 leg leg clamps to connect each level to each other for a safe and stable riser system. If you are using guardrails or chair stops, just install according to the instructions and your riser system is complete.

WUNDERSTRUCTURES:

The Wunderstruture understructure is another way to support our portable stage decks. This system is used on larger sized stages or typically on stages over 4 feet high. Our Wunderstructure is designed as an all terrain system that means it can be used on uneven surfaces or terrain and still allow you to level you stage with ease. It also allows you to bridge decks between Wunderstructures thus using less equipment saving installation time. Using 2 people, spread out each end and swing out the cross arm. Connect the cross arm on each end with the money paw and it automatically will be locked into the correct dimension. Then adjust each leg to the desired height by pulling back on the pull pin on each leg, sliding down the inner tube leg to the correct height and reinsert the pull pin. There is a hole every 2 inches and for any height in between 2 inches, just use the adjustable screw foot for fine leveling. Because it is an all terrain design, each leg can be at a different height while the deck surface remains level. Once you are at the desired height, add your locator plates in each corner. The locator plate is the cast aluminum plate with 4 holes that has 1 to 4 nodes bolted to it. The decks will sit on the node plates to secure to the top of the stage. We use 1 node plate with 1 to 4 nodes so you may have to add or subtract nodes for your particular application. The node plate rotates on top of the tube and you need to turn it the correct direction depending on your stage layout. An example is an outside corner will have the node plate turned in all the way with only 1 node while an inside deck will use 1 plate turned out with 4 nodes where 4 decks come together. Once you have the first Wunderstruture in place, install the second Wunderstructure 4 feet away and so on depending on your lay out. A good example is for a 12 x 24 foot stage, you would use 9 each 4 x 8 decks with 4 each Wunderstructures by having 1 Wunderstructure in each corner and bridging the decks on the locator plates. This application will require you to skip every deck and every other row. Once you have all the Wunderstructures and decks in place, make sure your stage is level and then lock each of the Dual Locks in the deck into each other. You also should tighten each leg corner to the node using the T-bolt in each corner.