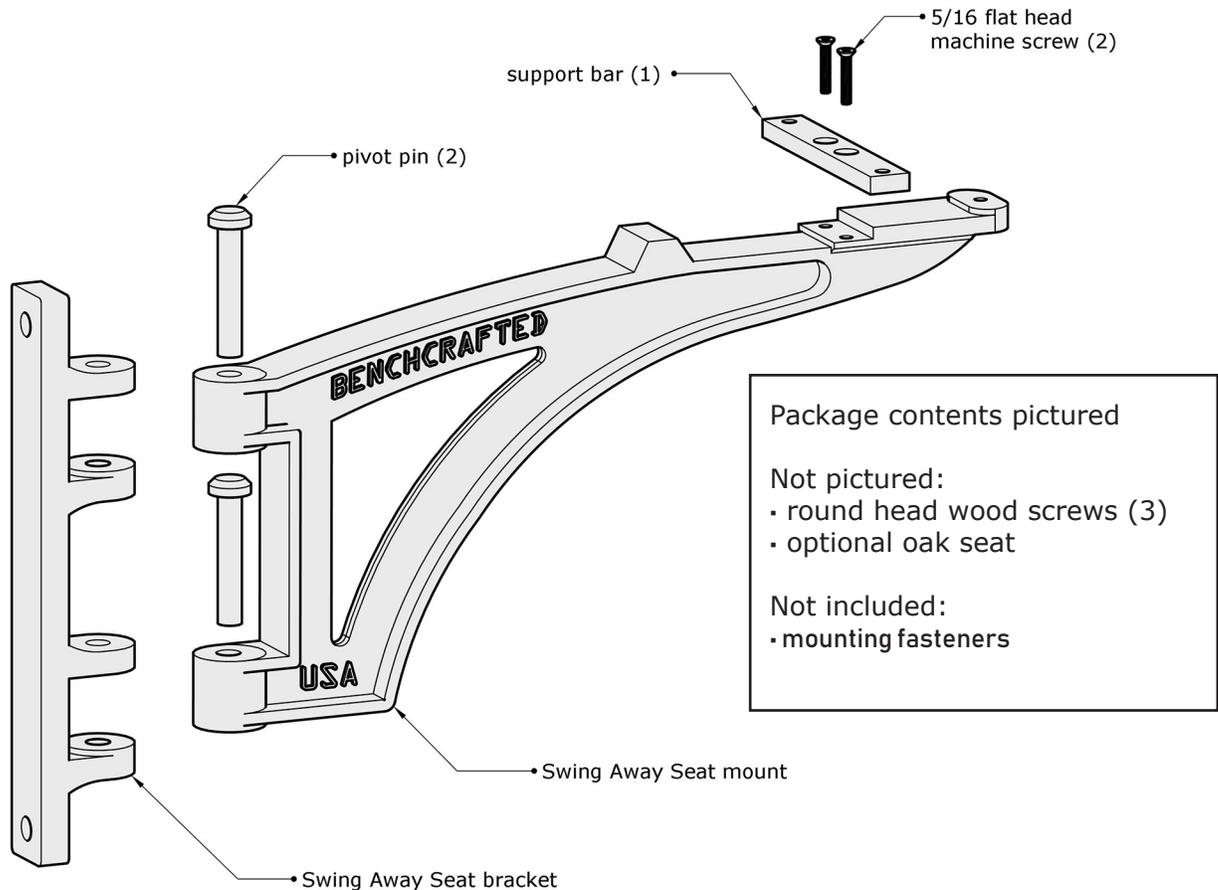


BENCHCRAFTED

SWING AWAY SEAT Assembly & Installation Guidelines

version March 2019



USE AND FUNCTION

Thanks for purchasing the Benchcrafted Swing Away Seat. Originally designed for use on woodworking benches and shop furniture, the seat can be used in a wide variety of applications like restaurants, kitchens, craft rooms, garages, and the like.

The seat itself is quite simple. It pivots a bit more than 180 degrees so you can swing the seat under a table top when not in use, and also allow some range of movement while seated. The castings are powder-coated cast iron and require no maintenance other than a wipe down with a soft cloth when they become dusty. The seat can be used outdoors, but being made of iron, any exposed areas or worn areas (like the bosses the mount rides on and the steel pivot pins) will eventually rust. That's not to say the seat will become non-functional, just be aware of a visual change once exposed to the ele-

ments. A little oil under the heads of the pivot pins will help keep the mount swinging free.

WEIGHT CAPACITY

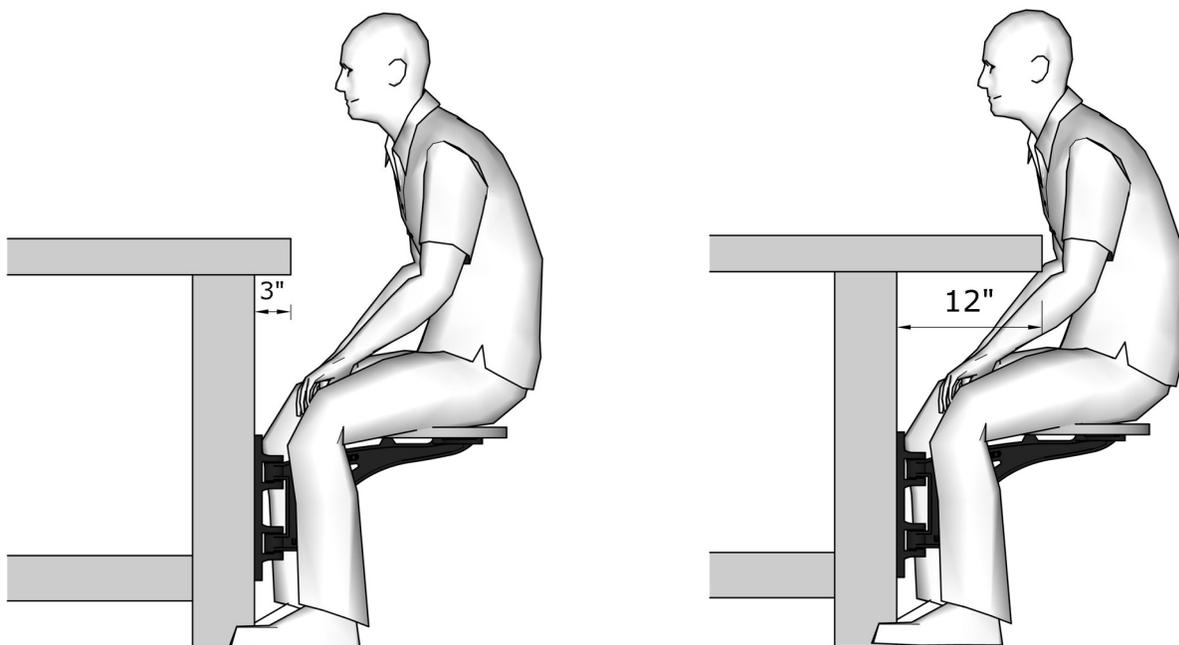
The iron and steel components are overbuilt and will support even the largest humans. There is no weight limit. The mechanical connection with your bench or table is another matter, and again, up to the final installer.

BALANCE

If you're mounting the seat to a freestanding table or bench with straight legs, and the bench doesn't weigh a lot, you may find it easy to tip the bench over once you put your body weight on the seat. Again, this depends on the weight of the bench or table, the weight of the sitter, the table's leg arrangement, and the sitter's body position relative to the seat and table. If your table has a base where the legs or feet extend past the top (in effect, going under the seat as in a trestle table) you'll have some extra support underneath and will find the arrangement more stable. Also, if the sitter is positioned so the mount is between their legs, or to the side of either leg, the balance will change. If you find your arrangement unstable, you may need to add weight to your bench or fasten it to the ground. Also keep in mind if you're mounting more than one seat to a structure, and two people sit down on the same side of the bench, you may get some tipping.

OVERHANG

The seat can be mounted to a table or bench whose top is flush, or protruding from the leg on which the seat is mounted. For woodworking benches, you'll want to mount the bracket on the side of the leg, so as to not interrupt the front plane of the bench. Mount it as close to the front of the bench as you can, but again, on the side of the leg. This places the top of your bench away from your torso to allow free movement when working from a seated position. For other applications, like writing, typing or eating, the top of the table can be closer to your torso, so you can mount the bracket further in from the edge of the top, or to a leg or surface that's recessed from the edge of the top.



How a range of overhang amounts affects the sitter's relationship with the table top

HEIGHT

To get a feel for the ideal height to mount the seat, you can temporarily clamp the bracket to your bench or table leg to test different heights. 20" is a good starting point for average people. The top of the bracket is about 1" below the final height of a 1" thick wood seat. So if you want your final height to be 20", mount the bracket so the top of the casting is 19" off the floor. For bars or higher applications, you may want to install a footrest for support.

MOUNTING THE SWING AWAY SEAT BRACKET

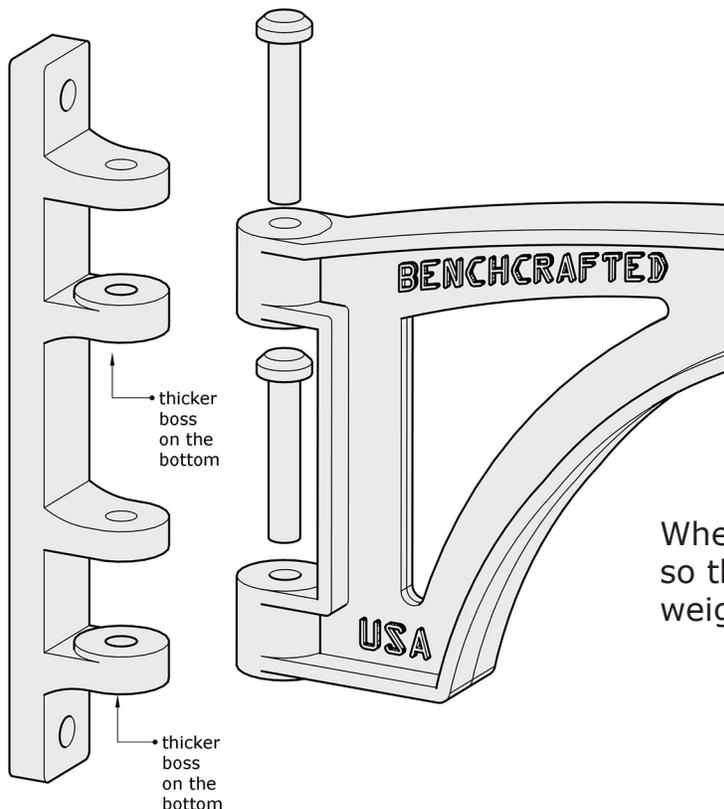
DISCLAIMER

Benchcrafted will not be held responsible for your mounting situation or damage or injury incurred as a result of faulty mounting of the Swing Away Seat. The installer is entirely responsible for the outcome of each mounting situation.

Because of the wide variety of mounting situations, we don't include any mounting fasteners with the seat. Here are some guidelines to help you choose fasteners.

For mounting to hardwoods at least 3" thick (like a workbench leg) you can use good quality 1/2" lag bolts (sometimes called lag screws.) Good quality means deep and sharp threads. Some of the big box stores carry really lousy quality bolts with shallow, blunt threads. Don't use these! If you're mounting to softwood like pine or fir, you'll want at least 4" of thread engagement in the material, so 5" lag bolts.

If your mounting surface is thinner than what we describe above, it's best to use a 1/2" machine bolt, nut and lock washer for maximum strength. Place the bolt head on the bracket side and the nut and washer on the opposite side of the mounting surface.

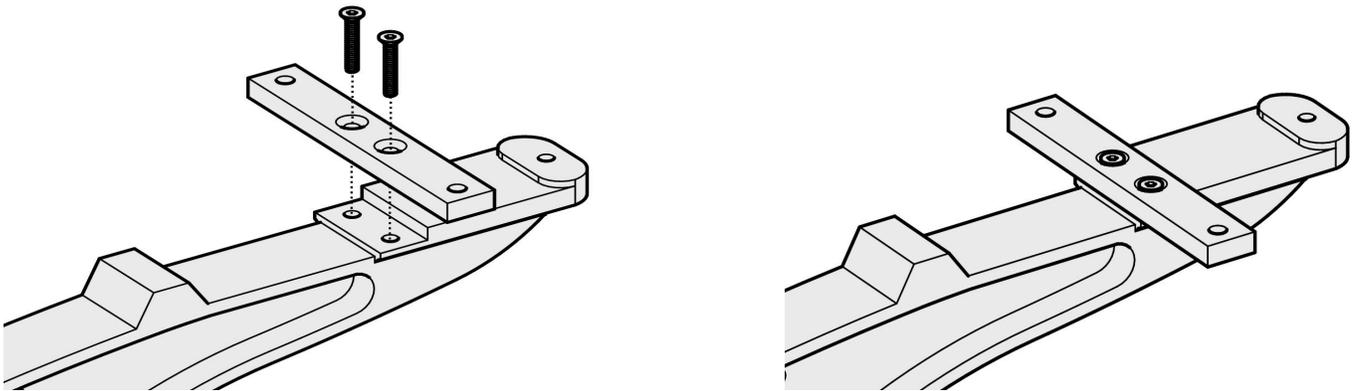


When mounting the bracket, orient it so the thicker bosses (which bear the weight of the sitter) are on the bottom.

You can use any standard hex head fastener to mount the seat, but we like the look of the square head lags and bolts in the black finish available from www.blacksmithbolt.com. We have no affiliation with the company, but we've been happy customers for a number of years. Your local hardware store will most likely have the fasteners you need.

ASSEMBLE THE WOOD SEAT

Once the bracket is attached to your structure you can join the mount to the bracket. Before you do that you should attach the wood seat. If you're making your own wood seat, the dimensions are 7/8" thick (but not less) x 11" diameter at least (a little larger is fine.) You'll need to attach the support bar to the mount before attaching the wood seat. Two 5/16" machine screws are provided for attaching the support bar. See illustration below.

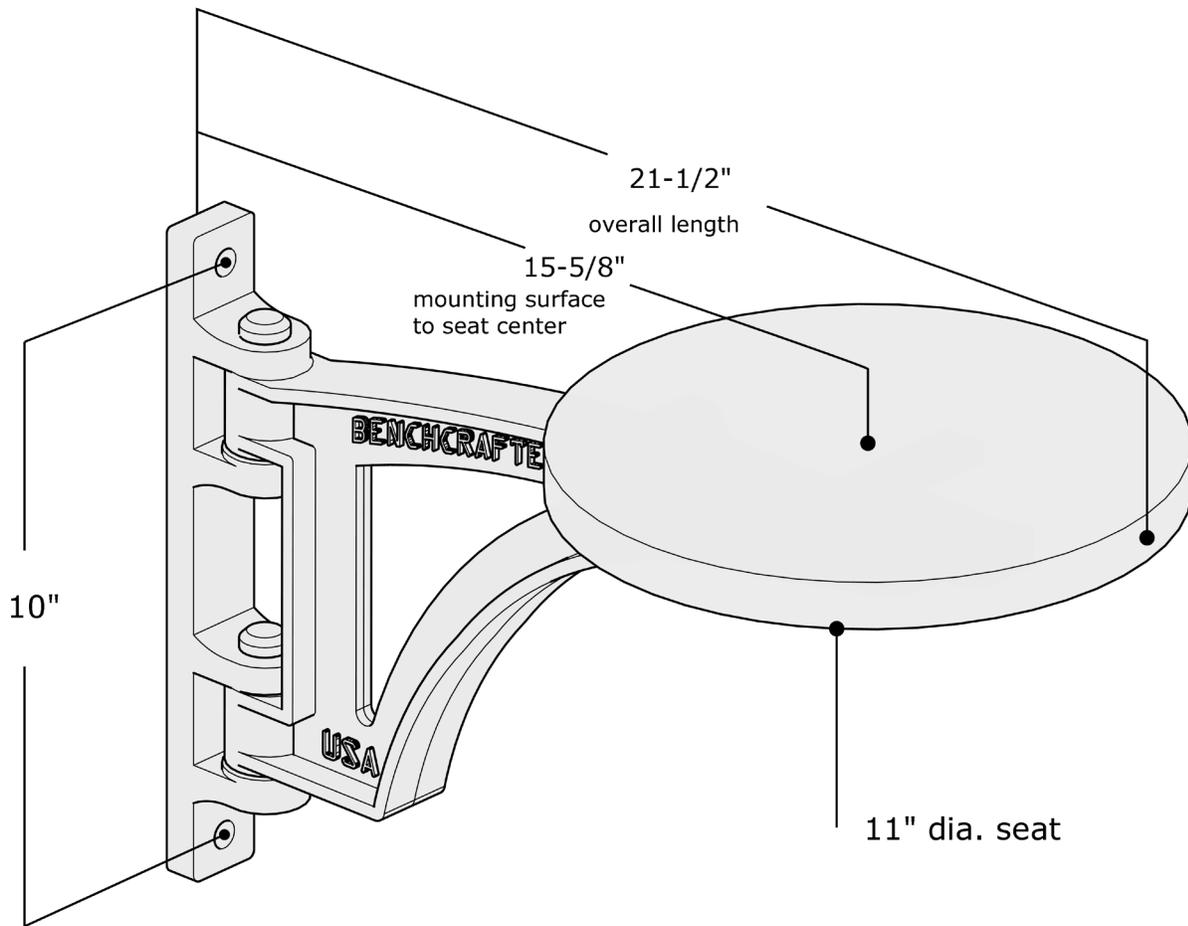


Three wood screws are included for attaching the wood seat. Grain direction relative to the iron components is not critical, but make sure you select a straight grained board for the seat itself. When attaching the seat, make sure you position it so the edge of the seat lands on the rectangular boss in the middle of the mount. This ensures good support for the entire diameter of the seat.

JOIN THE MOUNT TO THE BRACKET

Marrying the two heavy parts is easy. Place the mount into the bracket (between the two sets of bosses) and line up the holes, just like a door hinge. Drop one of the pivot pins in from above in the top hole in the bracket, then follow up with the lower one. The pins stay in position with gravity alone. If you find them difficult to insert, check for a build-up of powder coating in the holes. If you find some, run a 1/2" twist drill bit (slowly now) or file through the holes to clean them up. You can put a few drops of oil or light grease inside the holes before assembly if you like. But it's easy enough to disassemble later for cleaning and lubrication too. To do that, just take the weight off the mount by lifting up on the wood seat, and then the pivot pins should be easy to lift out of their holes. The seat should pivot smoothly and freely once mounted and installed.

As with all Benchcrafted products, feel free to contact us for technical help should you need it at info@benchcrafted.com



All dimensions are nominal