

Getting started

Before you begin to assemble Abstracta units, compare the packing slip to all components received. Please read all instructions before beginning.

We recommend using a small amount of non-corrosive lubricant such as WD-40[®] or 3-in-1 oil on the connector tips **prior** to assembly. This makes both assembly and disassembly easier. Wipe off any excess lubricant with a soft cloth or paper towel

Recommended Tools

- Short piece of 2"x 4" wood (to protect floor and absorb shock)
- Non-corrosive lubricant
- Safety glasses and gloves







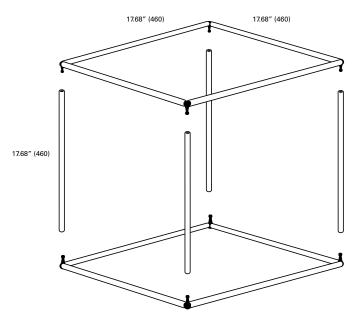
Extractor Rod (EX-ABS)

Nylon Mallet (913)

DisconnectTool (915)

Parts List

8 - 3T connectors 12 - 17.68" tubes (460) 4 - shelf brackets (620)4 - clear bumpers (012)1 - glass shelf (1717)



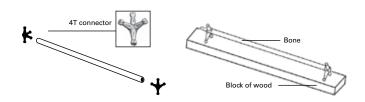
Assembly

Step One

Lay out all the parts and components and locate the nylon mallet. This design includes three different tube lengths and two different types of connectors.

StepTwo - Abstracta "Bones"

A single tube with the inserted connectors is considered a "bone."

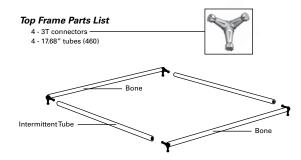


To assemble a bone, insert connectors into a 17.68" (460) tube making sure the connectors are square to each other. This is shown with the piece of wood in the diagram. Partially tap connectors into tubes. Once you have confirmed that both ends are correctly placed, hammer until connector is flush with the tube.

Follow this procedure of making "bones" throughout assembly.

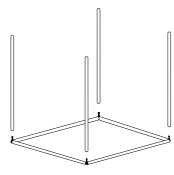
Step Three - Horizontal Shelf Frames

For every square section of an Abstracta unit, only the two tubes which create the depth of the square are "bones." Intermittent tubes are added to make a horizontal square frame.



Assemble both horizontal square frames using 3T connectors and 17.68" (460) tubes. Each frame includes two bones and two intermittent tubes.

Step Four - Building the Tower



Place one frame section on floor with exposed connectors up. Hammer four 17.68" (460) vertical tubes onto connectors leaving no space between tubes and connectors.

Place the other frame section onto the tubes. Gently tap in the frame slightly by about 1/4" to insert connector arm onto the upright tubes.

Once all connectors are in place, hammer

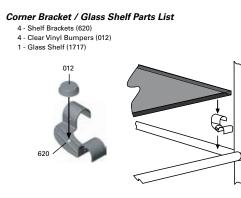
them half way as some may not remain in place. Go over them once more, making them flush with the tubes. This progression is to avoid stress on the connector arms.

Caution

Before moving the display or placing shelving or graphics, make sure that all tubes are hammered completely onto the connector arms. Leave no space between the tube and the shoulder of the connector arms. Due to the tight fit the tube ends can scrape a bit of finish off the connector shoulders. Remove the small splinters with the **flat** end of your nylon mallet. **Bare hands are not recommended as the splinters may be sharp.**

Step Five - Shelving Placement

When the unit assembly is complete and the structure is upright, carry the unit to the proper place. Attach the asymmetrical brackets (620) and any other accessories before installing shelving. The bumpers (012) are placed in the center of the shelf brackets. These protect your glass from breaking and make for a more secure fit for shelving.



Troubleshooting

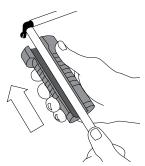
Although the connectors are durable zinc casting, you will be assembling them with a nylon mallet. Disassembling units with the mallet will break connectors and is not recommended.

If a connector arm has broken off at the base of the joint and is stuck in the tube, it is preferable to knock it out from the opposite end with a 5/16" diameter steel rod that is longer than the tube. The 36" extractor rod (EX-ABS) is recommended for this.

If the opposite end is attached to another connector, try to knock the broken arm far enough into the tube with a screwdriver and mallet so that a replacement connector can then fit in its place.

Disassembly and the Disconnect Tool

We strongly recommend using our Disconnect Tool (915) for taking Abstracta apart. Similar to a slide hammer, this tool allows for an even distribution of pressure on the connection. Using the mallet or a hammer to disassemble increases the risk of breaking connectors.



To use the tool, firmly grasp the tube and position it in the channel of the Disconnect Tool with the larger end of the tool facing

the connector. Rotate the tool to contact the flat end of the tool against one or more connector arms. Strike the connector arms with the tool until loose. Point the tube down so the connector will not hit anything when disconnected.



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