parts list and assembly instructions

abstracta R modular display system design noul cadovius

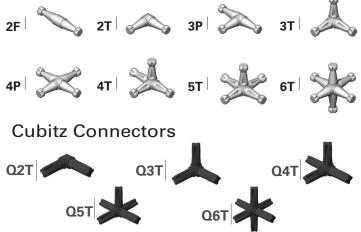
Getting started

Before you begin to assemble your Abstracta units, compare the packing slip to all components received. Please read all instructions before beginning. These instructions are generic to Abstracta. If you have ordered a stock or custom unit, a colorcoded unit specific drawing is included for each design. We recommend using a small amount of non-corrosive lubricant such as WD-40[®] or 3-in-1 oil on the connectors prior to assembly. This makes both assembly and disassembly easier.

Recommended Tools

Nylon Mallet (913) • Disconnect Tool (915) Extractor Rod (EX-ABS) • Safety glasses and gloves Short piece of 2"x 4" wood (to protect floor and absorb shock) Instructions • Non-corrosive lubricant

90° Connectors



13mm Accessories







13mm (1/2") Tubes

part number	inches	millimeters	shelf/panel size
065	2.08"	53	n/a
130-03	3.00"	73	2 1/8"
130	4.69"	119	4 9/16"
145	5.20"	132	5 1/16"
200	7.28"	185	7 1⁄8"
210	7.80"	198	711/16"
265	9.88"	251	9 3⁄4"
275	10.39"	264	10 ¼"
330	12.48"	317	12 5/16"
345	12.99"	330	12 %"
360	14.18"	360	14"
395	15.08"	383	14 15/16"
395A	15.08″	383	14 15/16"
410	15.59"	396	15 7/16"
410C	15.59"	—	—
411	16.18"	411	16"
460	17.68"	449	17 9/16"
460C	17.68"	_	_
530	20.28"	515	20 1⁄8"
595	22.87"	581	22 ¾"
675	25.98"	660	25 %"
685	26.50"	673	26 ℁"
805	31.18"	792	31 1/16"
911	35.87"	911	35 ¾"
1000	38.85"	986	38 11/16"
2000	78.23"	1986	78 1/16"

 \mathbf{C} = curved tube \mathbf{A} = Aluminum tube

Adhesive backed to attach to 620, 625, 626 and 627H brackets. 004 most commonly used for 19mm.

626 | Mini Shelf Bracket

728A | Panel Clip

For vertical panels up t 728B | Panel Clip For vertical panels up to 1/8" thick. 728B 13mm ONLY.

For shelving that is not continuous. Four (4) required per shelf. 13mm ONLY.

012 | 004 Vinyl Bumper



630 |Tube Insert

730 | S-Clip

al panels up to 1/4" thick. To attach two units together

To add a tube to an exisiting unit. Available only in matte black or chrome. 13mm ONLY.

650 | Door latch Each set includes one door latch, one magnetic catch and a strip of VHB tape. For glass thickness up to 1/4





613 | Shelf Support Clip 620 | 625 Asymmetrical Shelf Bracket or continuous shelving. 620 for 13mm ONLY. Four (4) required per shelf.



920 | Locking Spring To provide an even tighter fit for permanent displays or loose



738 | Hang Clip

Multi-purpose clip for securing hanging, etc.



Spray or Pen. For use in touching up as needed. Limited colors.



Shelving Panels Variety of options availab to 23" for all units - stand custom. Call for assistant

913 | Nylon Mallet To provide a tough surface for easy assembly that will not damage connector finish.

915 | Disconnect Tool



For disassembly; provides even pressure on connector. Available in one size for either system.



















Black 7/16" diameter, fits into tube end for height adjustments up to ¹/₂", To cap legs and ends of tubes to fits all tubes. To cap legs and ends of tubes to tube ends, fits all tubes.



WD-40 | Spray Lubricant To facilitate assembly and disassembly. To be sprayed on a cloth, then rubbed on the prongs of the connectors.

EX-ABS | Extractor Rod To help in removing broken connector arms from a tube.



904 | INVION CASTER Non-locking casters for fixture weights under 50 lbs. Plastic sleeve slips into tube end.

To cap legs and ends of tubes to protect floor or finish exposed tube ends











Black 1.25" diameter x .25" fits into tube end for height adjustments up to 1/2".

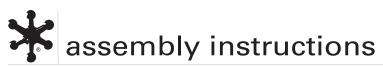
AND DESCRIPTION



3710 | Adjustable Disc Leg

506 | Plastic Guide

705 | Adjustable Leg Black 9/16" diameter, fits into tube end for height adjustments up to ½".



Step One - Instructions

Abstracta is based upon steel tubes and connectors. The easiest way to begin assembly is to simplify each section. All units are assembled by building "bones" first, then by building either horizontal or vertical "ladders," described below. We suggest safety glasses be worn when assembling Abstracta.

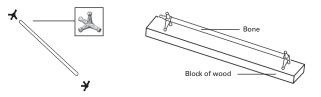
With your specific unit in mind, decide if you want to build the horizontal or the vertical sections first. Do not attempt to build both simultaneously. This will make assembly far more difficult.

Note: you may find the use of WD-40[®] lubricant to be helpful.

Contact your sales representative with any questions.

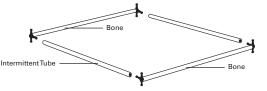
StepTwo - Abstracta "Bones"

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



To assemble a bone, insert connectors into a tube making sure the connectors are symmetric to each other (the connectors are represented by color coding on unit specific instructions). 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.

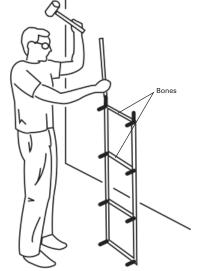
Follow this procedure of making "bones" throughout assembly.



For every square section of an Abstracta unit only the two tubes that make the depth of the square are bones. The intermittent tubes will be added later.

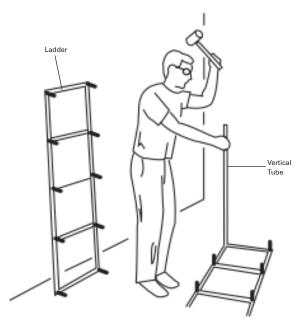
Step Three -Abstracta "Ladders"

Once all of the bones for a section have been assembled, lay them out parallel to each other and insert the intermittent tubes. These are ladders. Fully assemble each ladder referencing the color coded instructions for accurate connector placement. If your design is a tower, your horizontal ladder will be as simple as a square.



Step Four

When all ladders are complete, lay the beginning section on the floor and hammer in the first set of vertical tubes. If your unit includes legs (short tubes on the bottom) do not add these yet.



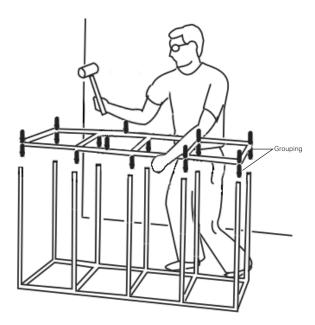
Once you confirm that everything is in place make sure tubes are flush to connectors. There should be no space or gap between the tube and the connector.

assembly instructions

Step Five

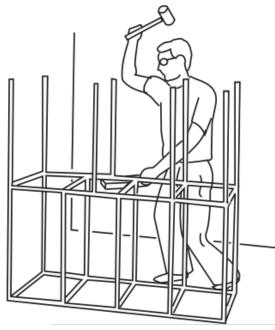
Place the next ladder on the open tubes. Gently tap in the ladder slightly by about 1/4" to insert the connector arms on the ladder into the first set of tubes. Based upon the length of the ladder it is often easier to insert the connections into groupings or pairs.

Once all connectors from the ladder are in place, hammer all of the connectors half way as some may not remain in place. Go over them once more, hammering them in all the way, making them flush with the tubes. This progression is to avoid stress on the connector arms.



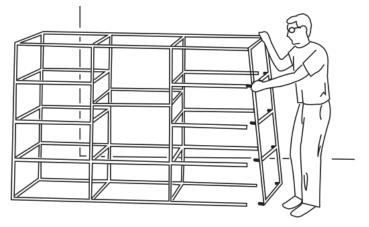
Step Six

Hammer in the second set of vertical tubes and then the next ladder repeating the same procedure until finished.



Step Seven - Legs

If your unit has legs, confirm everything is correctly in place and tight on the entire unit before adding them. Place the legs on last and hammer them so they are flush. The legs are basically permanent as they are shorter than the disconnect tool itself and not recommended for removal.



Once assembly is complete install the plastic glides (506) or adjustable legs (705)into the short tubes. All open tubes should have plastic glides or adjustable legs inserted. Glides and legs are not designed to be removed. Hammering the unit once they are in place may cause damage to glides. Therefore it is important that this is a last step in the construction of your unit.

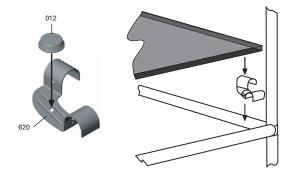


Caution

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 Eight - Shelving Placement

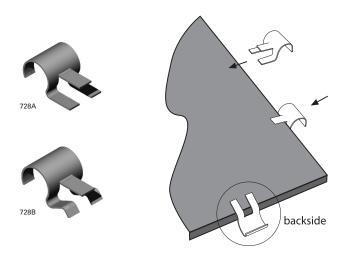
When the unit assembly is complete and the structure is upright, carry the unit to the proper place. Attach the asymmetrical brackets (620/625) and any other accessories before installing shelving. The bumpers (012) are placed in the center of the shelf brackets. These protect your glass from breaking and make for a more secure fit for shelving.



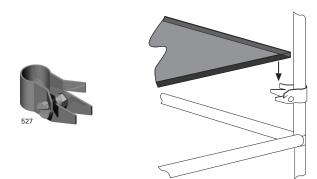
assembly instructions

Step Nine - Panel / Adjustable Shelf Clips

Panel clips (728A/728B) should be attached to vertical panels before attaching them to the tubes. A minimum of one clip per side is recommended. Longer lengths or more flexible substrates may require more clips. Put pressure on both sides of panel when attaching.



If you are attaching adjustable shelf brackets (527) make sure to measure placement on the vertical (upright) tubes for all four brackets so that the shelf is level. The 527 clips face the center of the shelf with the straight arms on the bottom and the flared arms on the top. To assure proper shelving fit, do not tighten the clips all the way until the shelf or panel is accurately in place.



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.

Additional Information

Curved Tube Tips

Hold curved tube in one hand. Place connector in tube and using mallet, hammer connector into tube. Make sure to attach these to the connections early in the construction.

If two curved tubes are being connected in the design, hold one curved tube in hand. Using a wood block as a brace, hammer the end of second tube to make one half circle.

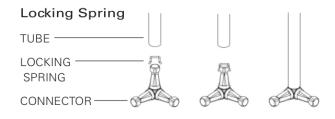
Offset Tube Connections Tip

When hammering tubes in "offset sections" - sections where the connection is not continuous on the other side - use a wood block for support. This minimizes stress to other connectors and tubes.

Example of an /

Locking Springs

Locking springs are **not** included with units and are **not** required for assembly. They are for permanent displays or very loose connections, and may be purchased separately.



Locking Spring Instructions:

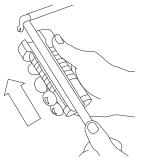
- 1. Place locking spring into the grooves on the head of the connector.
- 2. Align tube over head. Hold tube firmly against spring.
- 3. Hammer tube onto the connector using a nylon or rawhide hammer.

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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