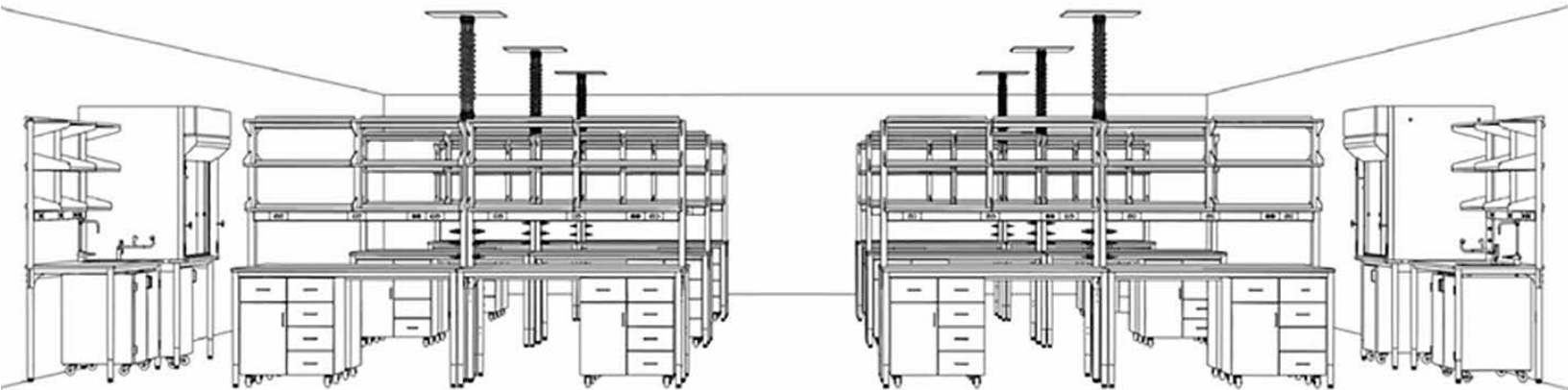


Distinction

Laboratory Furniture



Operation, Maintenance and Installation Instructions

DISTINCTION INSTALLATION INSTRUCTIONS

INTRODUCTION



GENERAL

The Distinction Laboratory Bench System is designed to respond to laboratory changes and adaptations in equipment and instrumentation, personnel, research activities and room layouts. Distinction consists of components that can be either integrated or used independently. The product is listed under UL 962 and complies with all of the mechanical and structural requirements for that listing. (Note: the addition of accessories that are not listed under UL 962 voids the UL listing for the entire product offering).

For quick service when ordering damaged or replacement parts, have a complete description and model number of your unit. Upon receiving shipment, it is the purchasers' responsibility to check that the shipment is complete and to examine each carton for damage. If damage occurred during shipment, notify the carrier immediately. Refer questions or problems for damaged or replacement parts to:

Hamilton Laboratory Solutions
920.657.1970
www.hamiltonlab.com

NOTE: Before starting the assembly process, prepare all proper tools and materials and ensure table configurations are known.



DISTINCTION INSTALLATION INSTRUCTIONS

INTRODUCTION

IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this furnishing. When using an electrical furnishing, basic precautions should always be followed, including the following:

DANGER—To reduce the risk of electric shock:

1. Always unplug this furnishing from the electrical outlet before cleaning.
2. This unit may contain more than one power cord. Unplug all cords before moving or servicing.

WARNING—To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Unplug cord(s) from the electrical outlet(s) before putting on or taking off parts.
2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by Hamilton Scientific.
4. Never operate this furnishing if it has a damaged cord or plug or if it is not working properly.
5. Keep the cord(s) away from heated surfaces.
6. Do not use outdoors.
7. To disconnect, turn all controls to the off position, then remove plug(s) from the outlet(s).

8. **WARNING:** Risk of Electrical Shock—Connect this furnishing to a properly grounded outlet only. See grounding Instructions.
9. For loading always put heavier items at the bottom and not near the top in order to help prevent the possibility of the furnishing tipping over.
10. Individual branch circuits are to be employed to supply power to the furnishing.

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER—Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product—if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This product is rated more than 15 amperes and is for use on a circuit having a nominal rating of 120 volts and is factory equipped with a specific electric cord and plug to permit connection to a proper electric circuit. Make sure that the product is connected to an outlet having the same configuration as the plug. No adaptor should be used with this product. If the product must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel.

DISTINCTION INSTALLATION INSTRUCTIONS

INTRODUCTION



IMPORTANT INSTALLATION NOTE:

Qualified tradesmen are recommended for all electrical, plumbing, and gas installations. Through testing this product, it has been proven that this product is designed to leave the manufacturing facilities meeting proper safety guidelines. In order to continue this safety, items must be installed properly and in accordance to any local ordinances or requirements. The compatibility of all provided services lines with the specific medium in which they will carry must be verified to meet all local codes. The maximum working pressure of the service lines shall not exceed 120 psi and 66° C. The installation shall be in accordance with NFPA 45, Fire Protection for Laboratories Using Chemicals. Final installation shall also include the labeling of all gas lines and fittings with the applicable color code per SEFA 7, Scientific Equipment and Furniture Standard for Laboratory and Hospital Fixtures Recommended Practices.

TOOLS REQUIRED: (not included)

Tape Measure
Phillips Head Screwdriver
Level
Wrenches, Open End or Box
Socket Wrench Set

MATERIALS REQUIRED: (not included)

Silicone Adhesive
Denatured or Isopropyl Alcohol



DISTINCTION INSTALLATION INSTRUCTIONS

TABLE FRAMES

A. TABLE FRAME PREPARATION

1. Determine desired workstation height.
2. Remove bolts (item 3) from the table frame (item 1) and inner adjustable leg (item 2)
3. Adjust inner adjustable leg to desired workstation height (31" - 37").
Note: The located hole found in the inner adjustable leg will always face the rear of the table. This will help in aligning the holes in the table frame leg and the inner adjustable leg.
4. Retighten bolts.

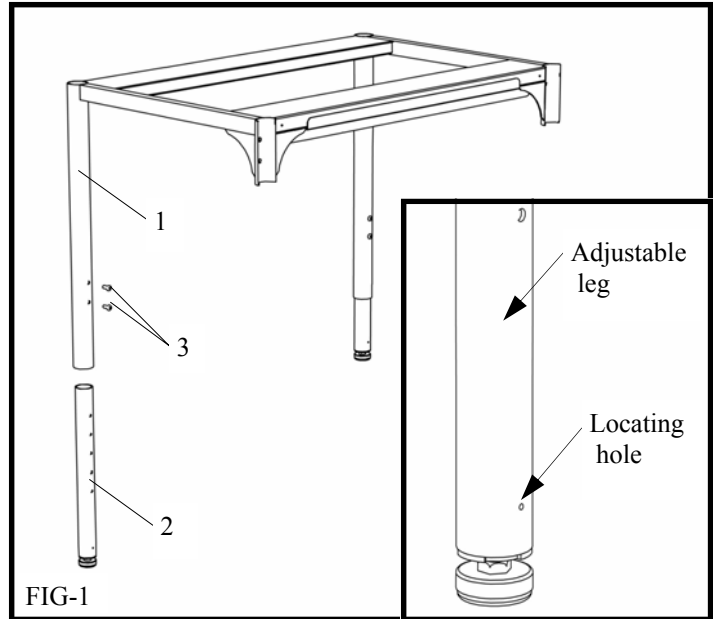
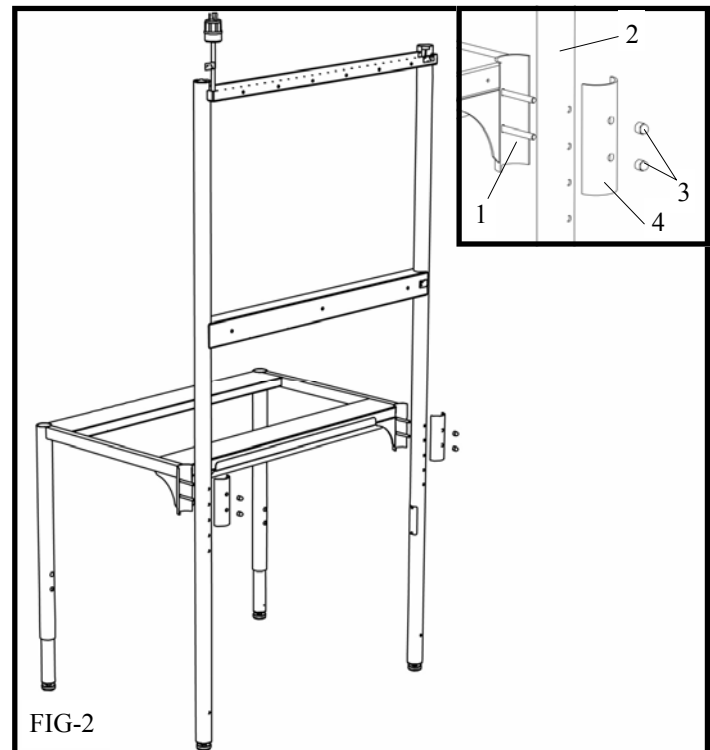


TABLE AND SINGLE REAR FRAMES

B. TABLE & REAR FRAME ASSEMBLY

1. Determine the hole locations in the rear frame (item 2) that correspond to the desired workstation height.
2. Secure the rear frame to the table frame using 5/16-18 x 2.500" bolts (item 1), rear frame connecting brackets (item 4) and 5/16-18 acorn nuts (item 3).
3. Verify that all bolts are tight and secure.



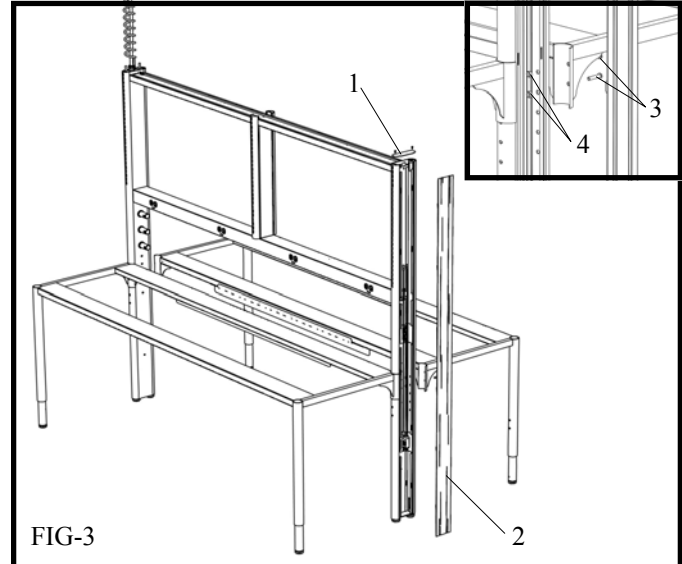
DISTINCTION INSTALLATION INSTRUCTIONS



TABLE AND SHARED REAR FRAMES

C. TABLE & REAR FRAME ASSEMBLY

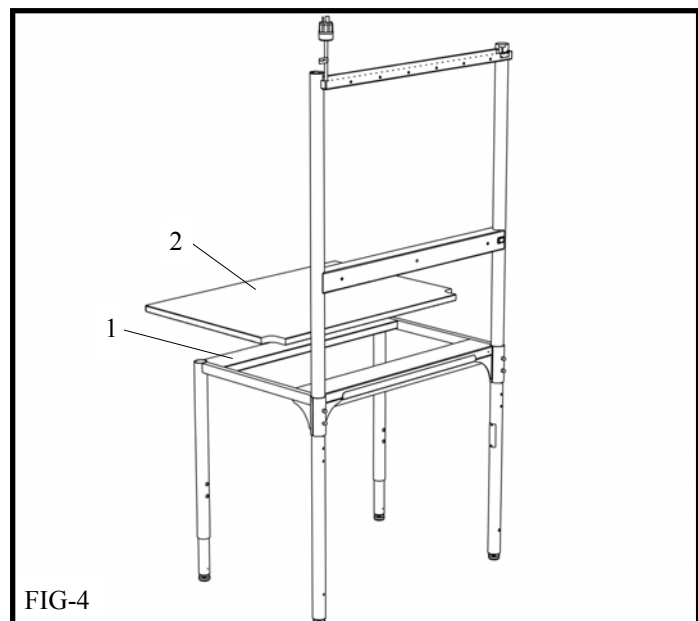
1. Remove upright top caps (item 1) by unscrewing attachment hardware.
2. Push up on the upright side cap and remove.
3. Determine the hole locations in the rear frame (item 2) that correspond to the desired workstation height.
4. Secure the rear frame to the table frame using 5/16-18 x 1.500" bolts (item 3), and 5/16-18 hex nuts (item 4).
5. Verify that all bolts are tight and secure.



WORK SURFACES

D. WORK SURFACE INSTALLATION

1. Complete assembly of table frame with either the rear frame or the rear table legs.
2. Apply silicone sealant to the top edges of the table frame (item 1).
3. Carefully position the worksurface onto the table frame. The cutouts in the rear corners of the worksurface should be centered around the rear frame tubing. Verify that the worksurface is straight and centered.
4. The worksurface should then be clamped to the table frame.
5. Clean up excess adhesive and allow to cure.





DISTINCTION INSTALLATION INSTRUCTIONS

PLASTIC LAMINATE / PHENOLIC SHELVING

E. SHELF ASSEMBLY

1. Align the front of the shelf (item 1) and the front of the shelf brackets (item 2). Note: It is crucial not to allow the shelf bracket to protrude from the front of the shelf.
2. Attach the shelf brackets to the shelf with supplied hardware. **Do not tighten.**
3. Position the shelf onto the rear frame in the desired location by “lifting and dropping” the shelf into the frame keyways.
4. Tighten the hardware from step 2.

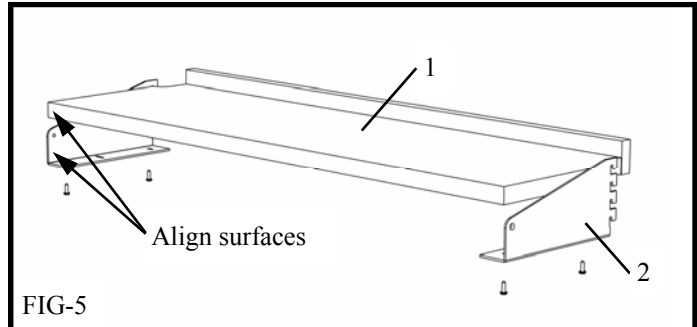


FIG-5

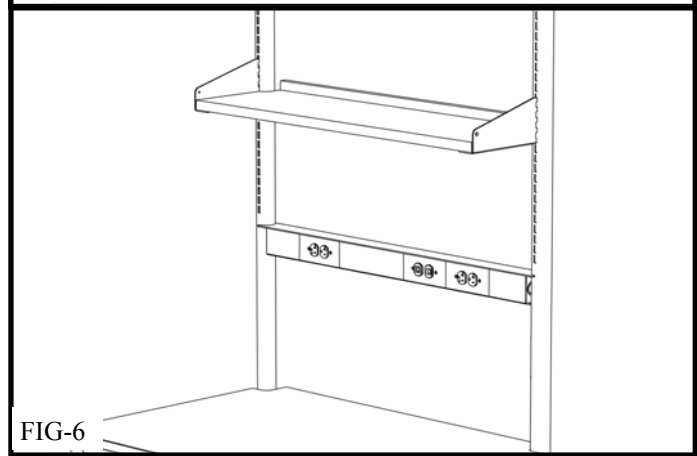


FIG-6

F. BACKSTOP ADJUSTMENT

1. The backstop can be adjusted to become flush with the shelf. To make this adjustment, remove the backstop by sliding it horizontally. (the backstop will only move in one horizontal direction)
2. Rotate the backstop 180 degrees and reattach the backstop by sliding it horizontally in the opposite direction used in step 1.

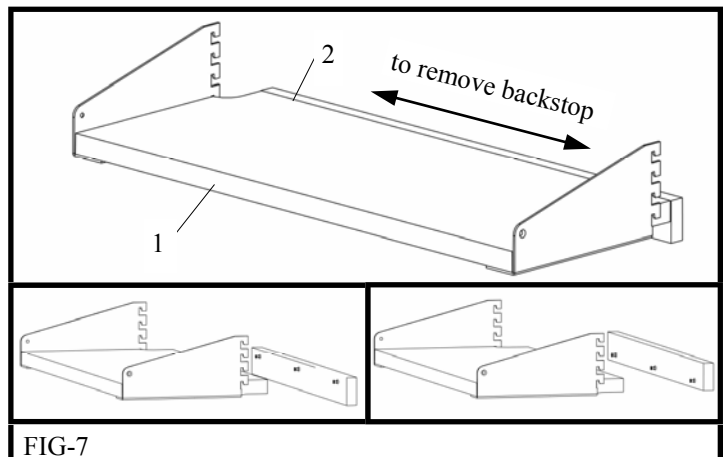


FIG-7

DISTINCTION INSTALLATION INSTRUCTIONS



STEEL FRAME SHELVING

G. STEEL FRAME SHELVING ASSEMBLY

1. Mount steel frame shelf (item 1) onto the rear frame (item 2) by “lifting and dropping” the shelf into the desired frame keyways.
2. Drop shelf substrate (item 3) into the steel shelf frame. (FIG-8)

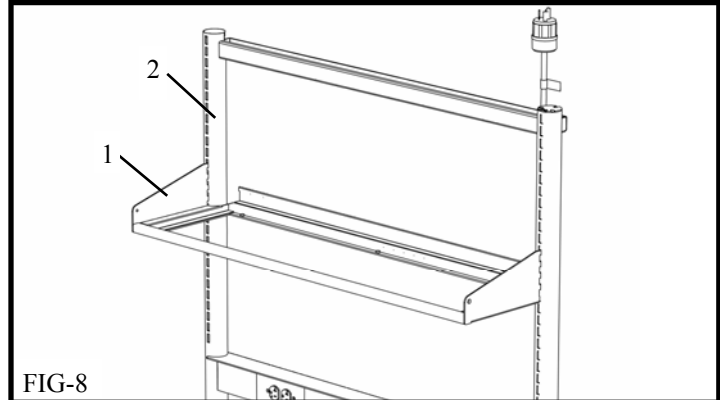


FIG-8

H. BACKSTOP ADJUSTMENT

1. To make the backstop flush with the shelf, remove screws from the back of the shelving unit. (FIG-9)
2. Rotate the backstop 180 degrees.
3. Reattach the backstop with the screws.

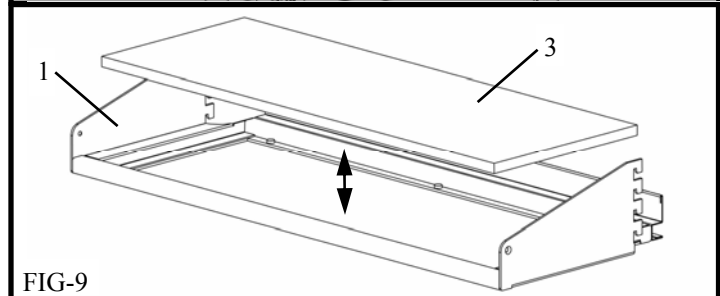


FIG-9

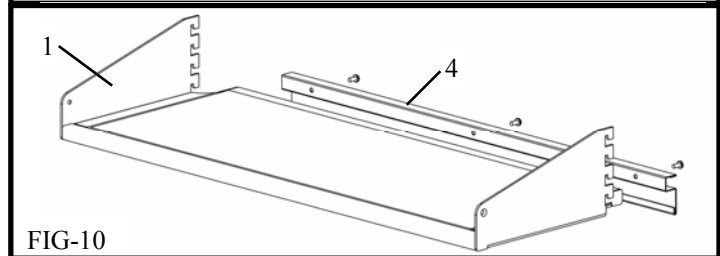


FIG-10



DISTINCTION INSTALLATION INSTRUCTIONS

MODESTY PANELS—SINGLE REAR FRAME

I. MODESTY PANEL MOUNTING

1. Hook the modesty panel (item 1) onto the modesty panel hanging bracket (item 2b) attached to the table frame (item 2). Note: if gap between the hanging bracket and the rear of the table is too tight, first loosen the screws securing the hanging bracket to the table frame.
2. Attach the modesty panel mounting brackets (item 3) to the modesty panel with the supplied hardware. The mounting brackets must wrap around the legs of the table frame.

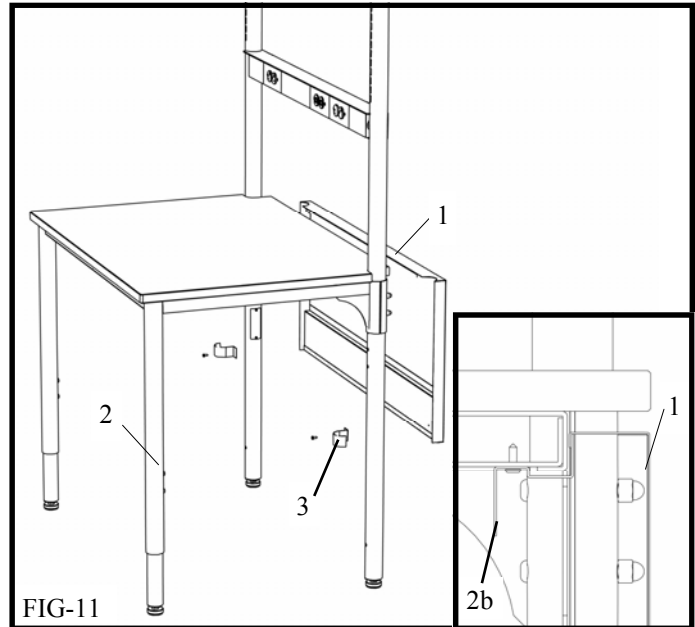


FIG-11

MODESTY PANELS—SHARED REAR FRAME

J. MODESTY PANEL MOUNTING

1. Remove the hole plugs (item 1) from both shared frame uprights
2. Remove upright side cover. (item 2)
3. Utilizing the holes from step 1, position the modesty panel (item 3) and attach to shared frame using the supplied hardware (item 4).

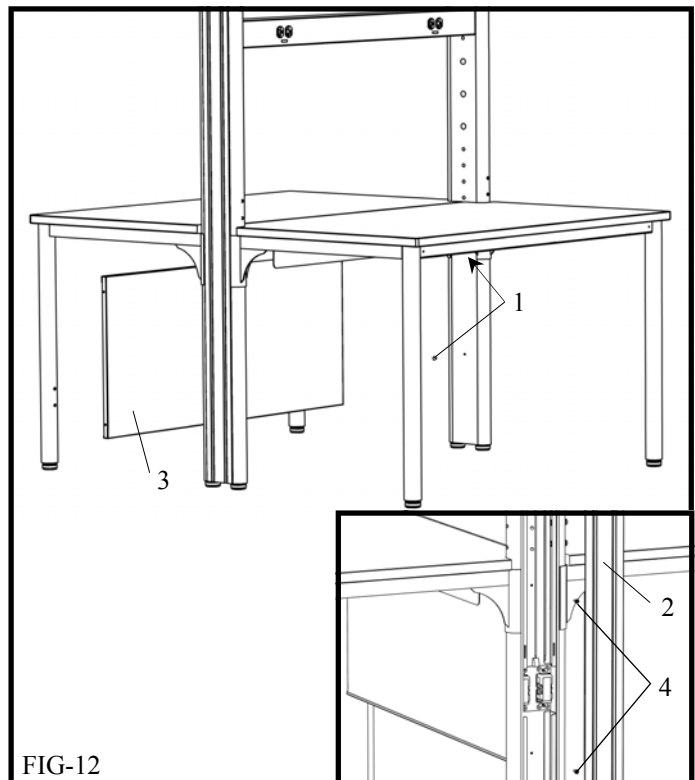


FIG-12

DISTINCTION INSTALLATION INSTRUCTIONS



LOWER TACKBOARDS—SINGLE REAR FRAME

K. LOWER TACKBOARD ASSEMBLY

1. Remove the screw located in the rear frame horizontal support (item 3).
2. Place tackboard panel (item 1) onto worksurface and against the rear frame horizontal support.
3. Attach the tackboard panel to the horizontal support using the screw removed in step 1. **Do not tighten.**
4. Place the tackboard brackets into the bottom cut-outs located on the tackboards. The brackets should fit around the worksurface.
5. Mount the tackboard brackets to the table frame (item 4) with the supplied hardware. Note: a pilot hole is located in the table frame and should be used for attachment.
6. Tighten screws from step 3.

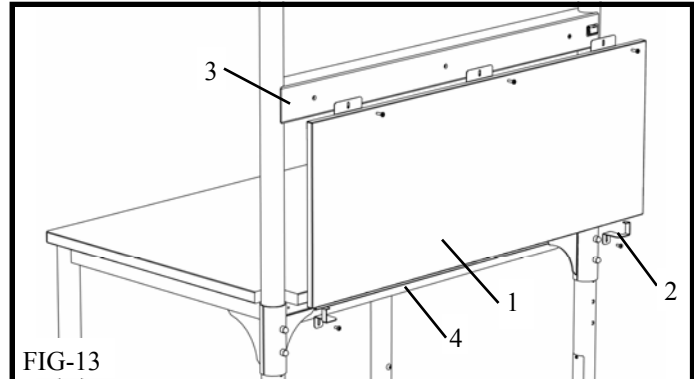


FIG-13

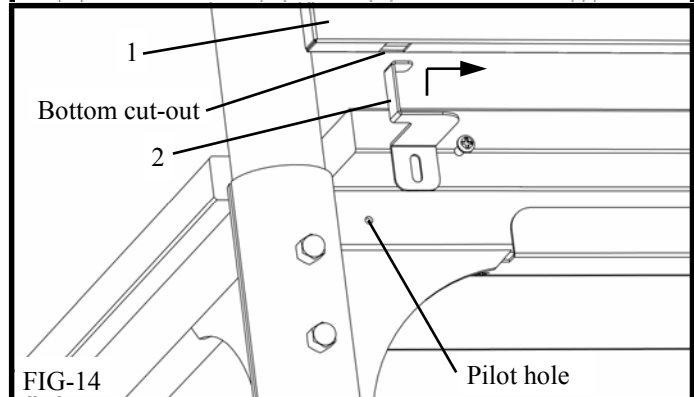


FIG-14

UPPER TACKBOARDS—SINGLE REAR FRAME

L. TOP TACKBOARD INSTALLATION

1. Before installing the top tackboard, the backstops must be removed on all shelving that will be mounted to the unit in which the tackboard will be installed. Also verify that the tackable material is inserted into the metal tackboard panel (item 2).
2. Loosen the screws attached to the rear frame lower horizontal support (item 1).
3. Slide the slots on the tackboard panel lower tabs onto the screws. Do not tighten the screws.
4. Push tackboard panel against the rear frame and attach tackboard to upper frame support with supplied hardware.

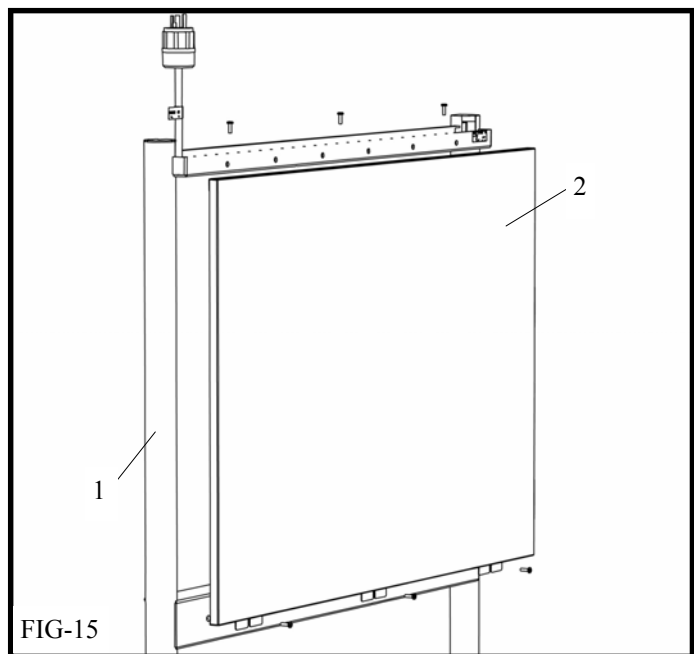


FIG-15

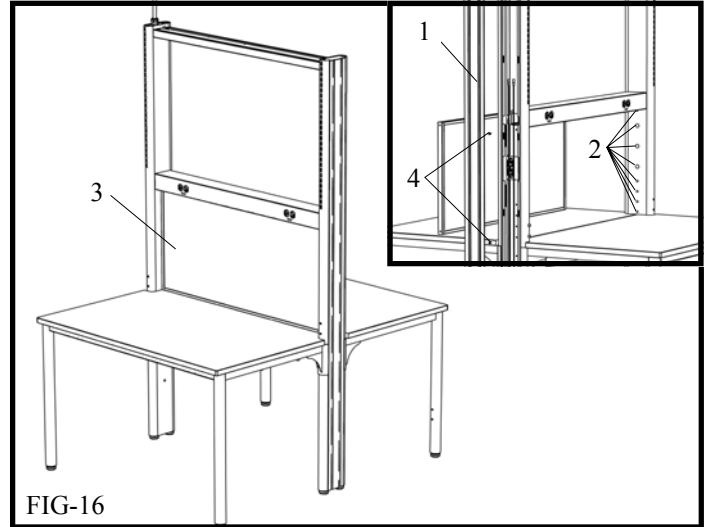


DISTINCTION INSTALLATION INSTRUCTIONS

LOWER TACKBOARDS—SHARED REAR FRAME

M. LOWER TACKBOARD MOUNTING

1. Remove upright side cover (item 1).
2. Remove all upright hole plugs (item 2) located above the worksurface.
3. Position tackboard (item 3) and mount to upright with supplied hardware (item 4) through corresponding holes in upright.



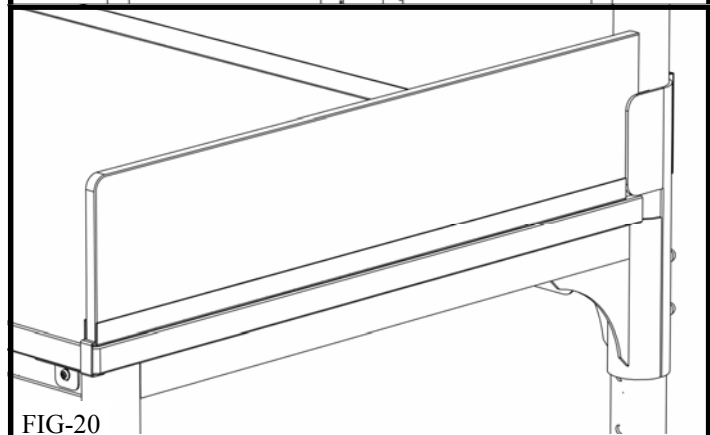
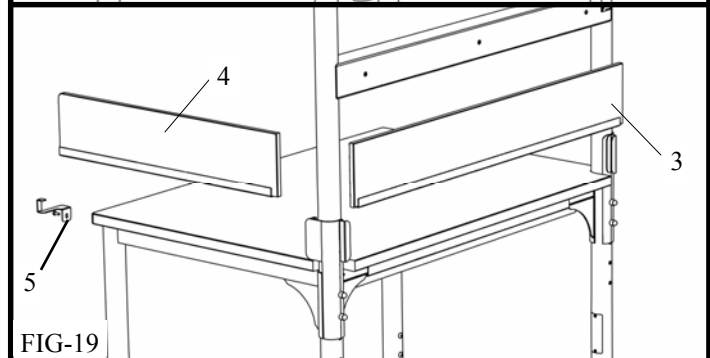
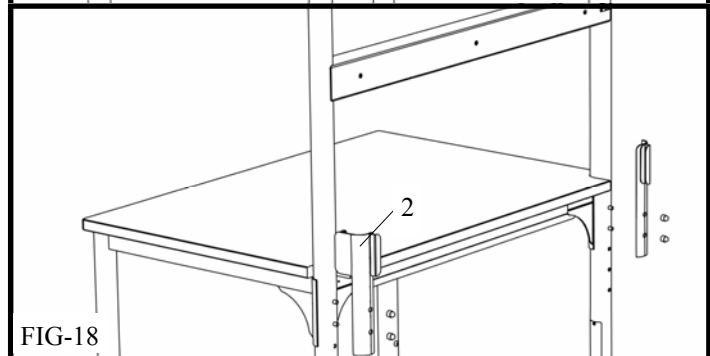
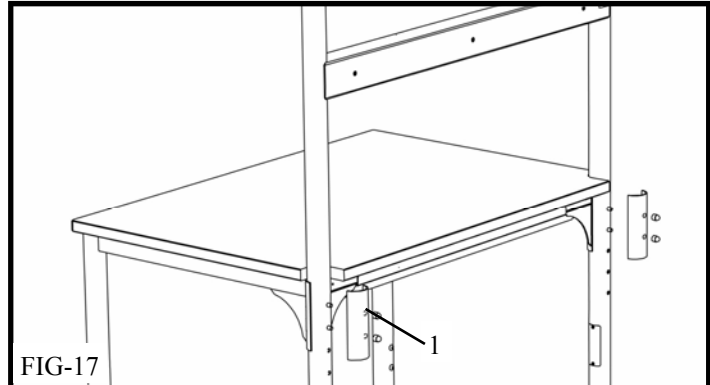
DISTINCTION INSTALLATION INSTRUCTIONS



SIDE & BACK SPLASHES—SINGLE REAR FRAME

N. SIDE & BACK SPLASH MOUNTING

1. Disassemble rear frame connecting brackets (item 1) by removing the acorn nuts and replace them with the proper splash bracket (item 2). Note: the rear frame bracket should be replaced one at a time for the removal of the rear frame connecting bracket will cause instability of the unit.
2. Tighten the acorn nuts and verify that the unit is secure.
3. Lay a bead of silicone sealant on the area of the worksurface where a splash will lie.
4. Drop the back splash (item 3) and/or side splash (item 4) into the channel on the splash bracket.
5. Secure the side splash to the front of the table frame by using the side splash front bracket (item 5). Note: The tab on the side splash front bracket will fit inside of the channel attached to the bottom of the side splash. The mounting hole for the side splash front bracket is located on the front of the table.





DISTINCTION INSTALLATION INSTRUCTIONS

SIDE & BACK SPLASHES—SHARED REAR FRAME

O. SIDE & BACK SPLASH MOUNTING

1. Remove upright side covers (item 1) and the upright hole plugs where appropriate.
2. Using supplied hardware assemble the splash bracket(s) (item 2). (Fig-24: back splash, Fig-25: side splash, Fig-21: back and side splash)
3. Drop the side or back splash into the channel of the splash bracket.
4. Secure the side splash to the front of the table frame by using the side splash front bracket (item 3). Note: The tab on the side splash front bracket will fit inside of the channel attached to the bottom of the side splash. The mounting hole for the side splash front bracket is located on the front of the table.

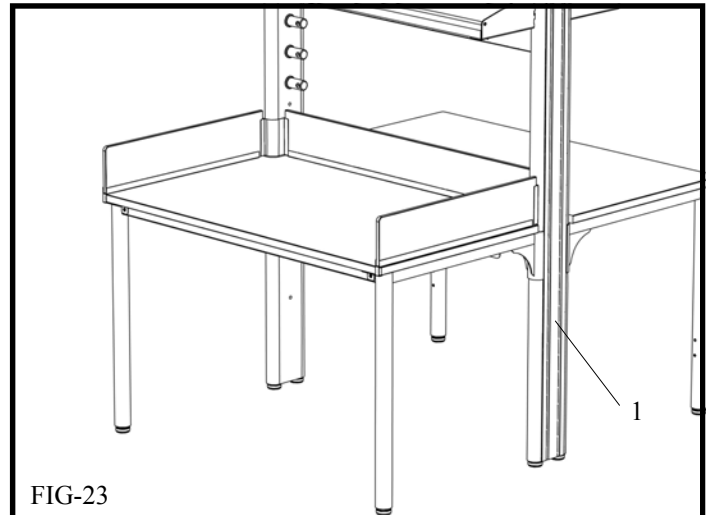


FIG-23

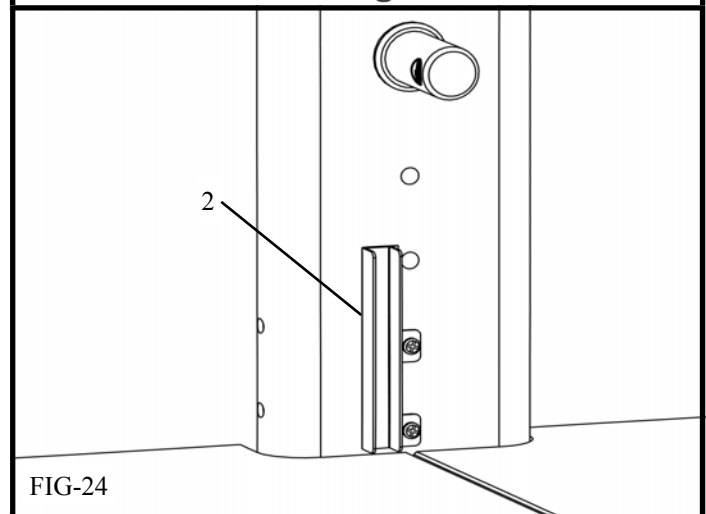


FIG-24

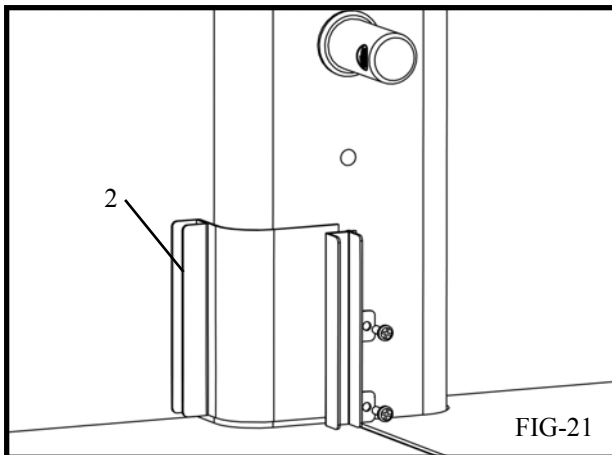


FIG-21

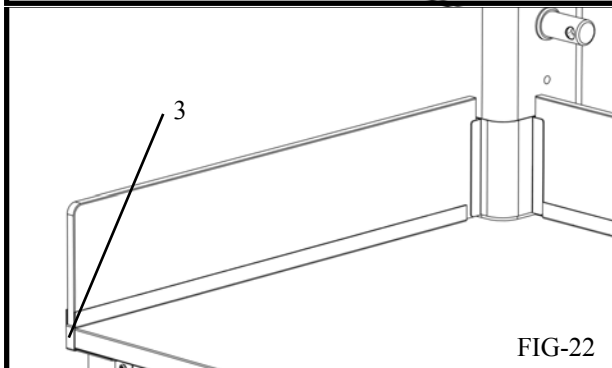


FIG-22

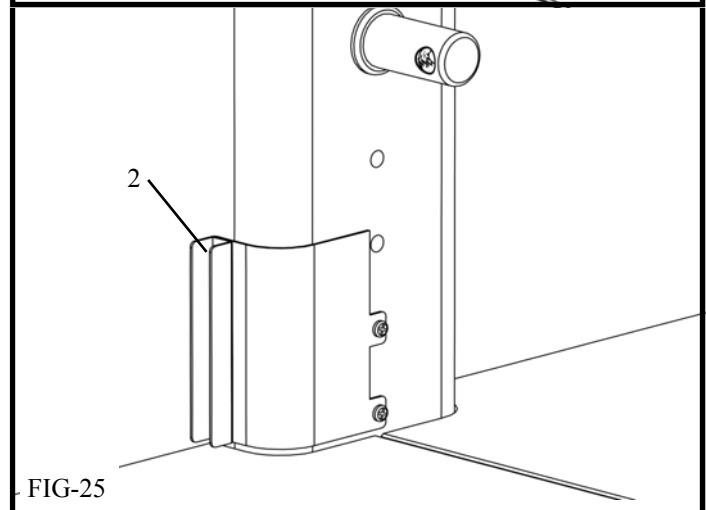


FIG-25

Dimensions are nominal and illustrations and specifications are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

DISTINCTION INSTALLATION INSTRUCTIONS



JOINING BRACKETS—SINGLE REAR FRAME

P. BENCH MOUNTING

1. Using supplied hardware secure the rear frame assemblies using the holes in the top support. (FIG-20)
2. To mount the units back to back, clamp the legs together with the back to back brackets and secure with supplied hardware. (FIG-21)
3. Mount the units side to side in front by removing the lower screw for the adjustability of the front leg. Clamp the legs by using the front side to side brackets and secure with the supplied hardware (FIG-19).
4. Using the hole in the bottom of the rear frame legs and the supplied hardware, secure the rear side to side bracket to the benches. (FIG-22)

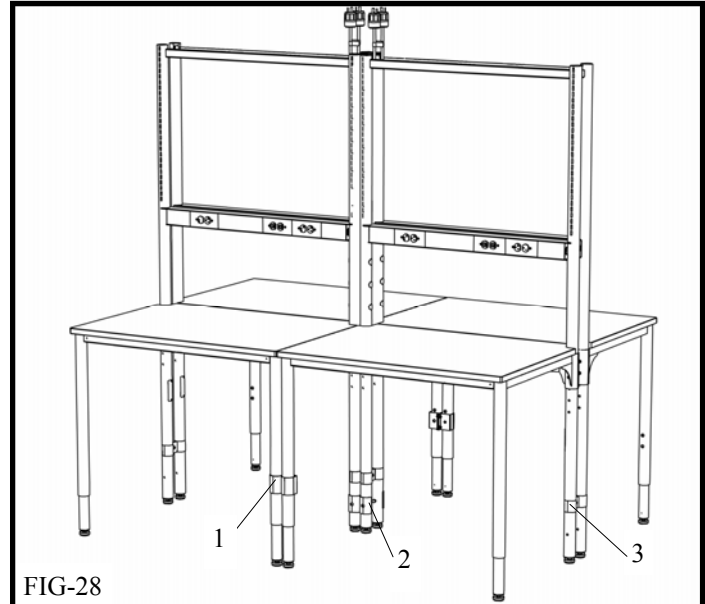


FIG-28

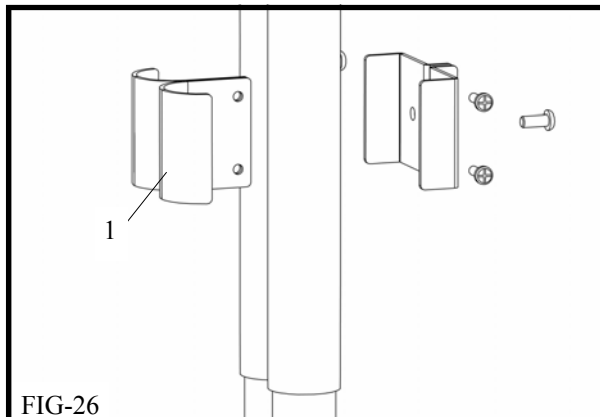


FIG-26

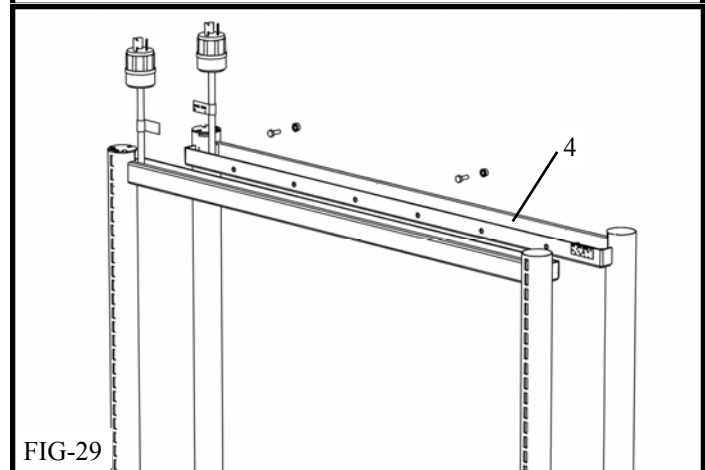


FIG-29

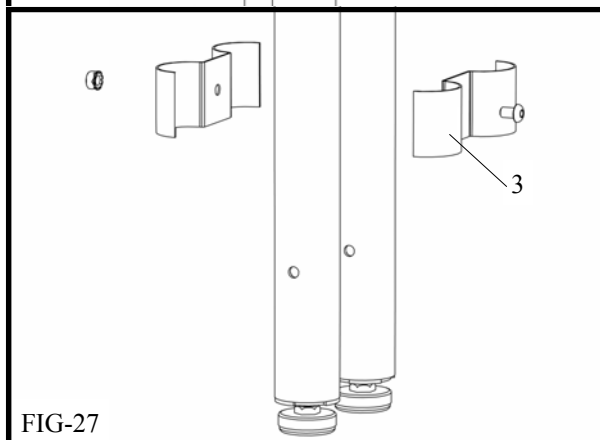


FIG-27

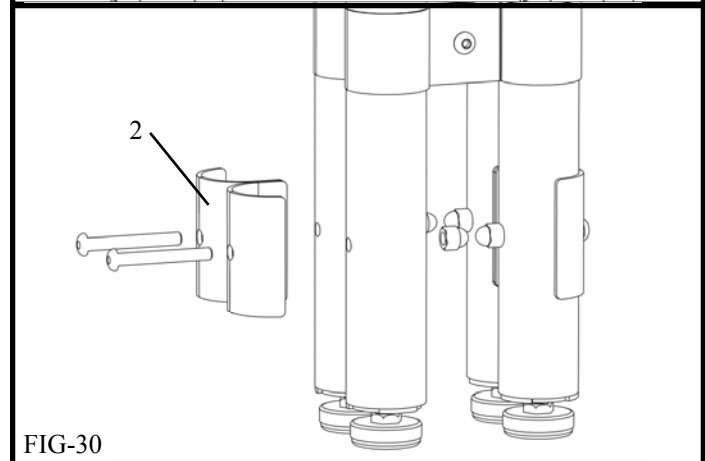


FIG-30



DISTINCTION INSTALLATION INSTRUCTIONS

WALL MOUNT STANDARDS (NOT UL LISTED)

Q. WALL STANDARD ASSEMBLY

1. Determine the proper location for the center of the wall standard.
Always start at the end of a run.
2. Measure 5 5/8" down from the desired location of the top of the standard. This will be the location of the bottom mounting holes of the wall standard bracket (item 1). (FIG-23)
3. Verify that the proper wall bracing exists to carry the required shelf loading and secure brackets with the proper screws, anchors, etc. for the specific wall type.
4. Drop the wall standard (item 2) onto the wall standard brackets. (FIG-24)
5. Secure the wall standard with two additional screws (note: clearance holes are located in the front of the standard). Do not tighten the screws. (FIG-25)
6. Drop the bracket covers (item 3) onto the backs of the wall standards and tighten the screws from step 5. The bottom cover may need to be positioned during steps 4 & 5. (FIG-25)

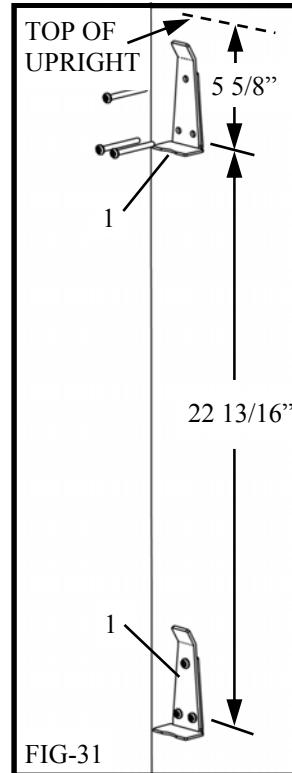


FIG-31

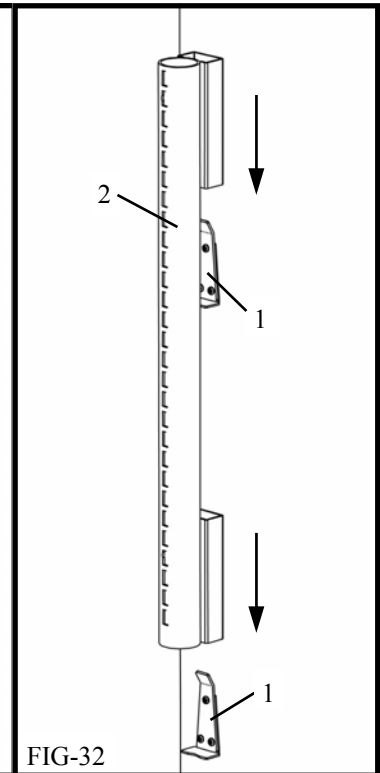


FIG-32

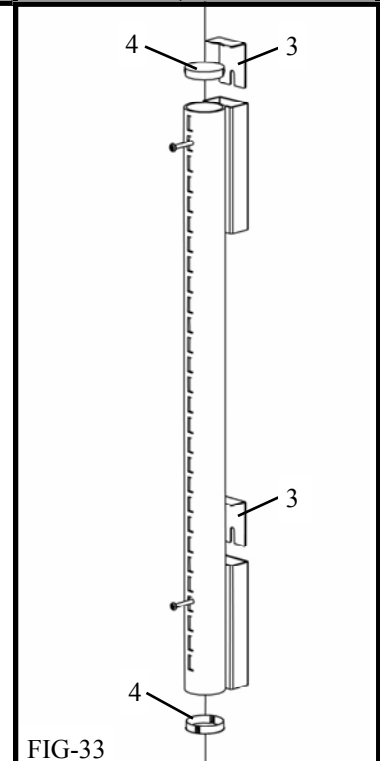


FIG-33

DISTINCTION INSTALLATION INSTRUCTIONS



WALL STANDARDS (NOT UL LISTED)

Q. WALL STANDARD ASSEMBLY (continued)

7. Determine the locations of the rest of the wall standards and follow steps 1-6 for each standard. Note: When matching the standards with the tables, the standard distance to match a table at the end of a run is nominal - 1.125 while all other standards should be placed at nominal dimensions.
8. Position table frames and shelving where appropriate.

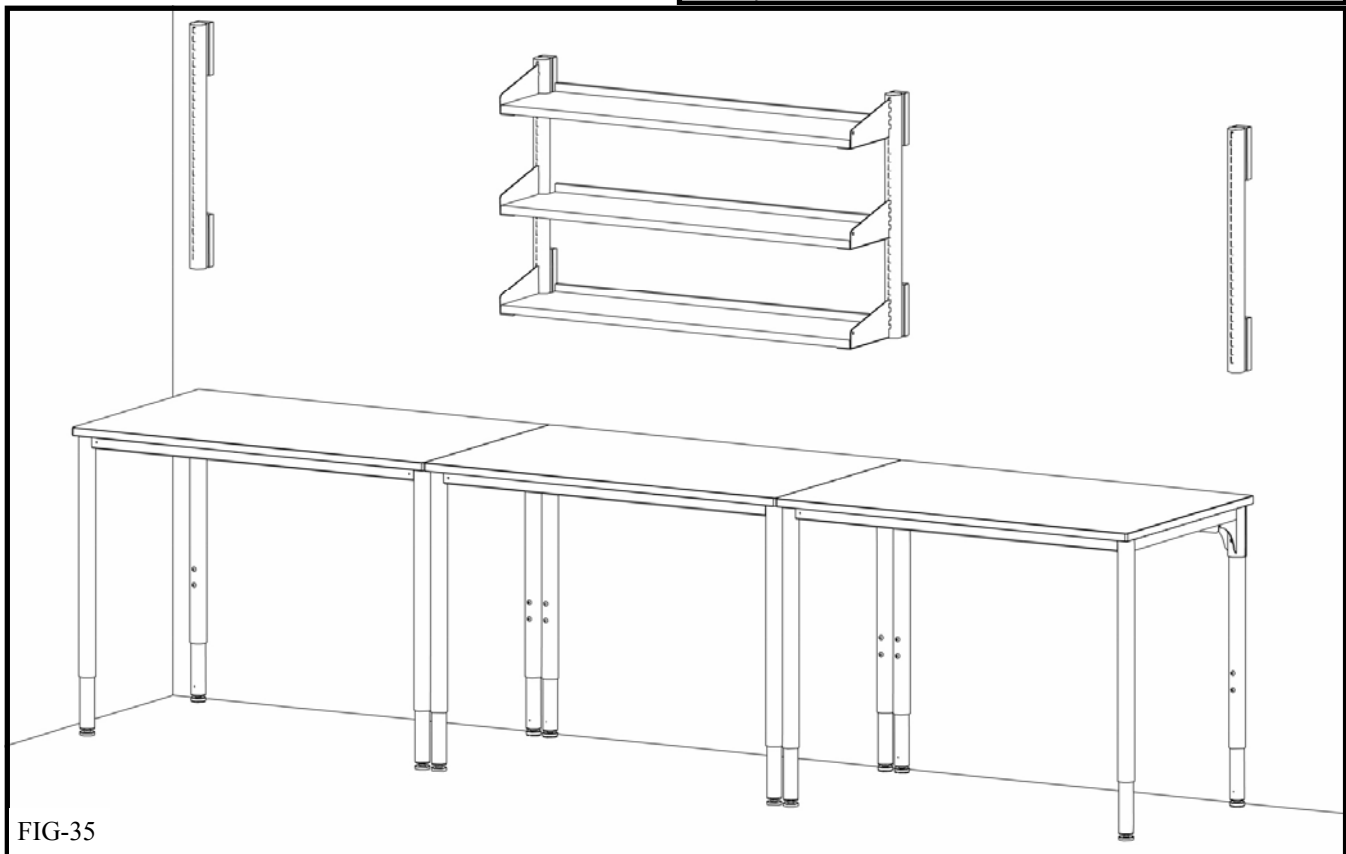
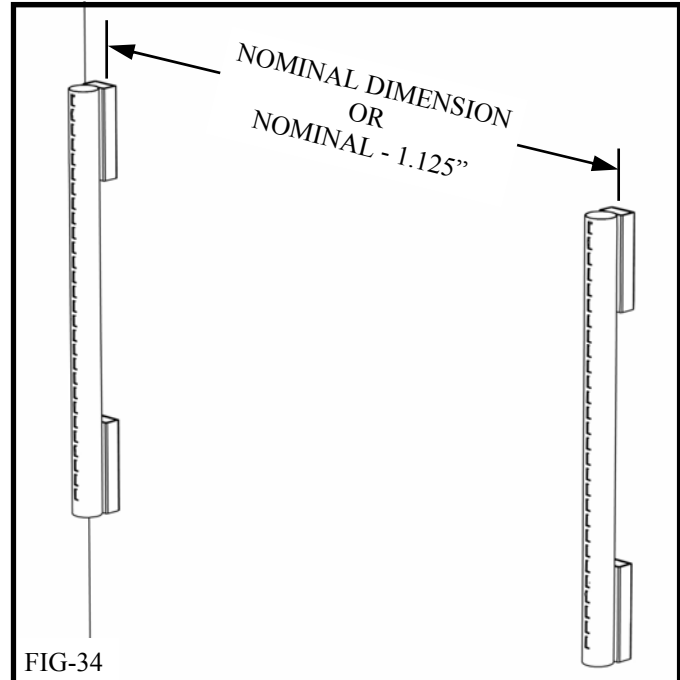


FIG-35

Dimensions are nominal and illustrations and specifications are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.



DISTINCTION INSTALLATION INSTRUCTIONS

SERVICE FIXTURES AND QUICK CONNECTS

Q. SERVICE LINE CONNECTIONS

1. Verify the compatibility of the provided service line (item 4) with that of the medium which will run through it. Verify that all local codes are met in regard to the distribution of the specific medium. The maximum working pressure shall not exceed 120 psi and 66°C.
2. Install service fixtures (item 1), service unions, and service quick connects to the service ports, turrets, or service lines in accordance with NFPA 45, Fire Protection for Laboratories Using Chemicals
3. Label all gas lines and fittings with the applicable color code per SEFA 7, Scientific Equipment and Furniture Standard for Laboratory and Hospital Fixtures Recommended Practices.

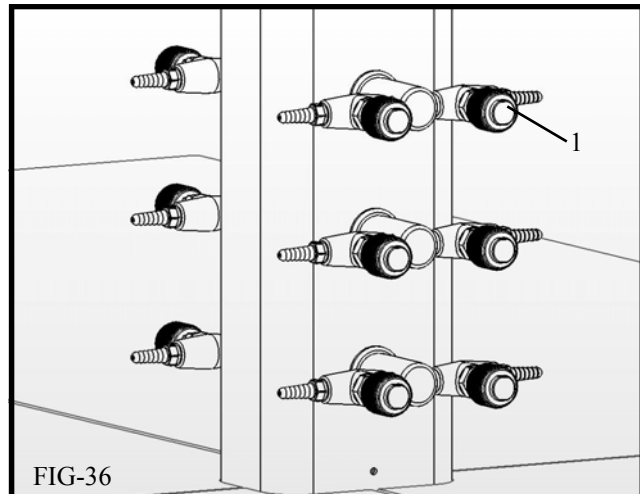


FIG-36

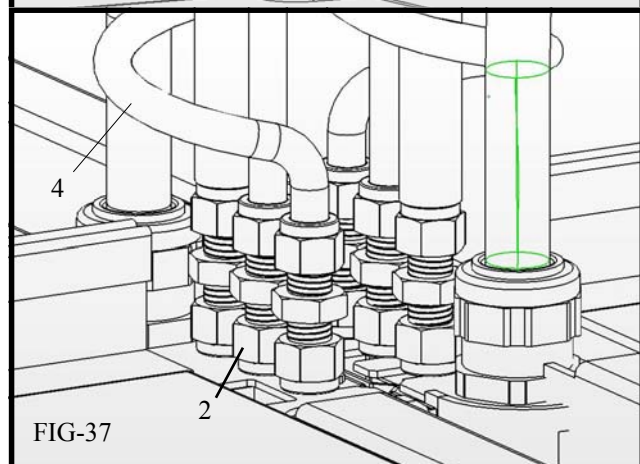


FIG-37

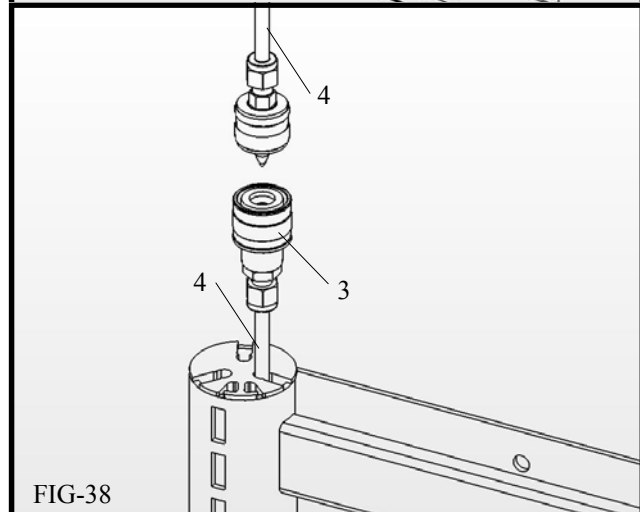
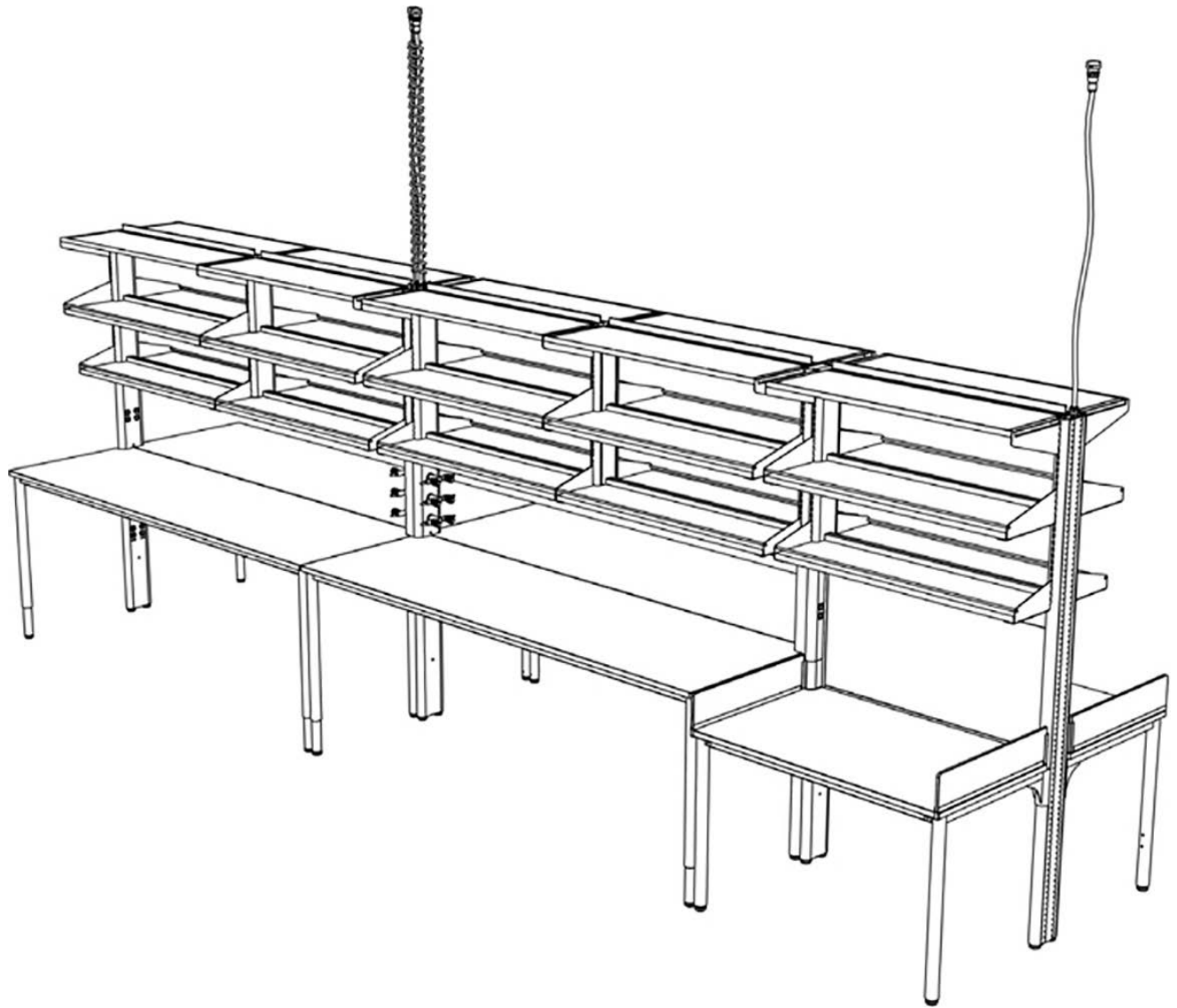


FIG-38



[Rev. C June 19, 2006] PL-938-4 010415

