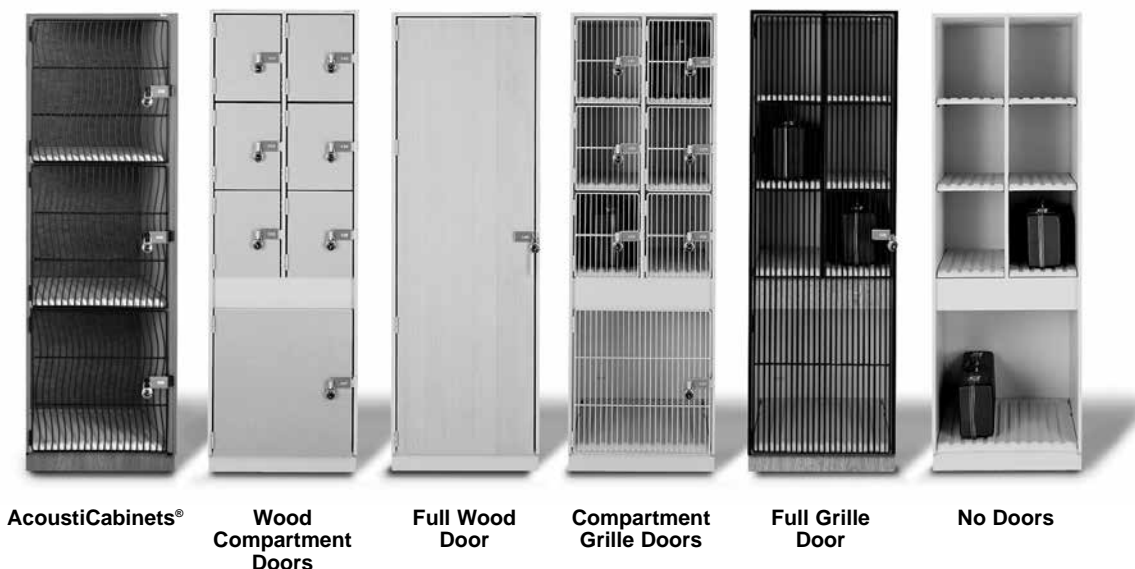




# Assembly Instructions Cabinet Storage Products

(UltraStor®, AcoustiCabinets®, Adjustable Shelf, Cover Panels, Closure Panels)



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Visit the Storage Products web page at [wengercorp.com](http://wengercorp.com) for detailed instructions and videos.

**Note:** Please read and understand these instructions before assembling or installing.

**Note:** If you need additional information, contact Wenger Corporation using the information below.

# *Important User Information*

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## **General**

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Printed and bound in the United States of America.

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In no event will Wenger Corporation be liable for technical or editorial omissions made herein, nor for direct, indirect, special, incidental, or consequential damages resulting from the use or defect of these instructions. The manufacturer reserves the right to change this product at any time.

The information in this document is not intended to cover all possible conditions and situations that might occur. The end user must exercise caution and common sense when assembling or installing Wenger Corporation products. If any questions or problems arise, call the Wenger Corporation at (800) 4WENGER (493-6437) or +1-507-455-4100 worldwide.

## **Manufacturer**

These cabinet storage products are manufactured by:

Wenger Corporation  
555 Park Drive  
Owatonna, MN 55060  
(800) 4WENGER (493-6437) • +1 (507) 455-4100  
wengercorp.com

## **Intended Use**

- This product is designed to store musical instruments and garments.
- This product is intended for indoor use in normal ambient temperature and humidity conditions — it must not be exposed to prolonged outside weather conditions.
- This product is intended to be assembled only as described in these instructions.

## **Warranty**

This product is guaranteed free of defects in materials and workmanship for ten full years from date of shipment. A full warranty statement is available upon request.

## Safety Precautions

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Throughout this document you may find cautions and warnings which are defined as follows:

- **WARNING:** Failure to follow the instruction could result in serious injury or damage to property.
- **CAUTION:** Failure to follow the instruction could result in minor injury or damage to property.

Read all of these safety instructions before assembling or using the cabinets.

### CAUTION

*Make sure anyone assembling or setting up the cabinets has read and understands these instructions.*

### CAUTION

*Failure to comply with Warnings and Cautions in this document can result in damage to property or serious injury.*

### CAUTION

*It is unsafe for only one person to assemble or move the cabinets.*

### CAUTION

*Make sure the cabinets are securely attached to walls or adjoining cabinets after assembly is complete.*

### CAUTION

*Always wear safety glasses and gloves when assembling or installing the cabinets.*

### CAUTION

*Assemble and install the cabinets only on flat, solid surfaces.*

### CAUTION

*Do not stand or walk on the top of any cabinet.*  
*38" (973 mm) cabinets with work surface tops have a maximum load capacity of 250 lb (113 kg) for evenly distributed loads.*  
*All other cabinets have a top maximum load capacity of 50 lb (23 kg).*

### CAUTION

*Do not hang anything from cabinet doors or shelves.*

## Required Tools

---

- Open-end wrenches: 1/4", 3/8", 7/16", 1/2"
- Screwdrivers: flat head, phillips head
- 5/32" Hex bit
- 7/16" wrench
- Cordless drill with 3/16" and 3/8" bits and sockets
- Plastic mallet
- Non-marring clamps
- Carpenter's level
- Carpenter's square
- Tape measure
- Utility knife
- Impact driver
- Pencil
- Power saw (if installing closure panels)

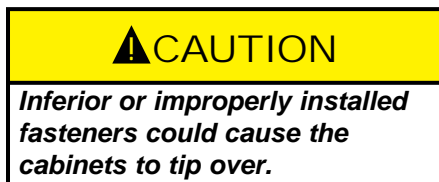
**Note:** To save assembly time, it is recommended to have more than one of each type of screwdriver on hand.

## Wall Fasteners - Not Supplied

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Because materials and construction of walls can vary, fasteners for attaching the cabinets to the structure are not provided.

The installer must choose the appropriate fastener and follow the manufacturer's instructions.



Determine the construction of the walls.

If cabinets are attached to the wall and adjacent cabinets; no attachment to the floor is required for standard installation.

For seismic, peninsula or island configurations, cabinets would be attached to the floor.

See the "Secure Cabinets" procedures for more information.

### **Cabinet Fastener Guidelines:**

- If the wall is wood stud-and-drywall construction, attachment should be by lag screws (1/4" minimum)
- If the wall is metal stud-and-drywall construction, attachment should be by toggle bolt (1/4" minimum)
- If the wall is concrete block construction, attachment should be by concrete screw (Tapcon) or toggle bolt (1/4" minimum)
- If the wall is poured concrete construction, attachment should be by concrete screw (Tapcon) or wedge-type concrete anchors

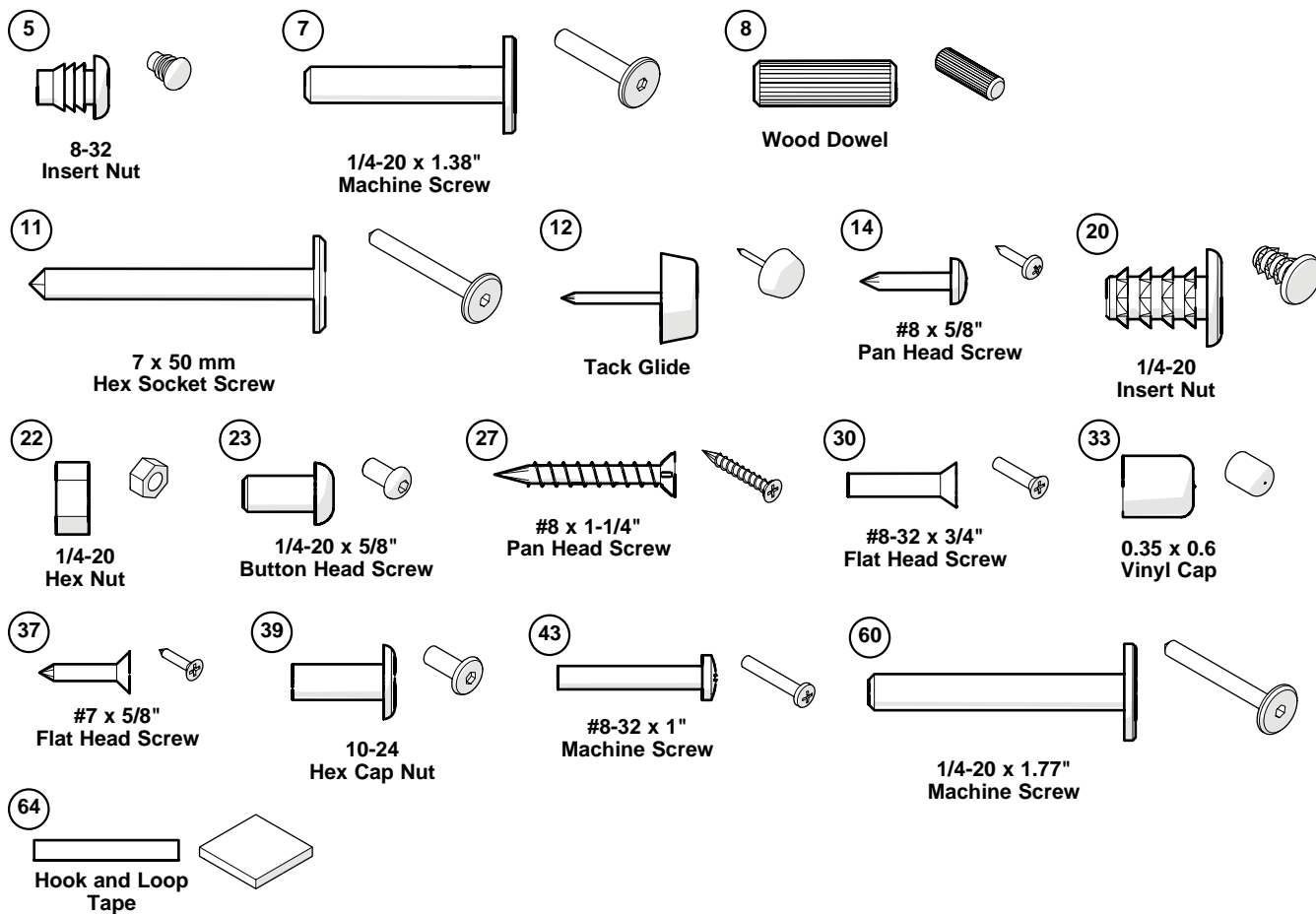
**Note:** Each wall connection must be rated for a minimum of 500 lb of tension.

Other fasteners may be used if the connection strength requirement is met.

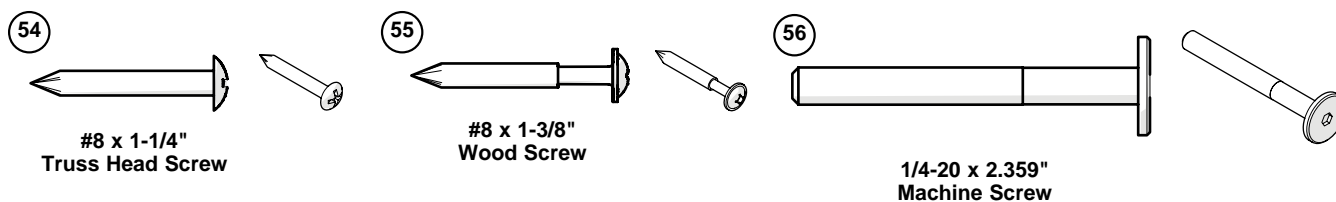


# Fastener Parts List

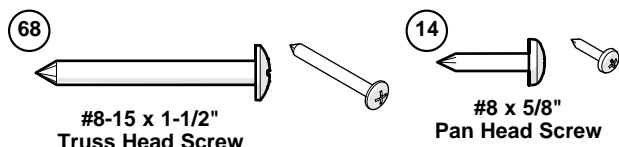
## Cabinet Assembly Fasteners



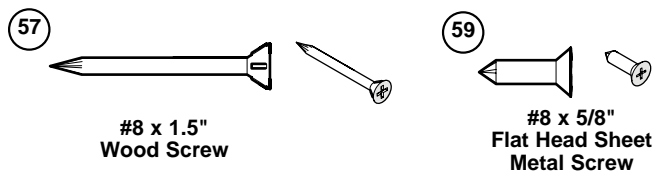
## Cover Panel Fasteners



## Closure Panel Fasteners



## Work Surface Top Fasteners



\*Depending on configuration, not all fasteners may be used.

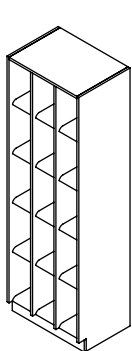
## Cabinet Identification



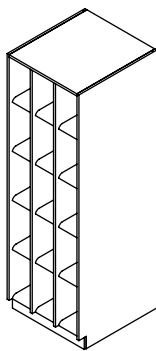
Locate the individual cabinet to be assembled and go the indicated page for instructions. Cabinets are grouped according to similar assembly procedures.

Doors, backing, end panel installation and cabinet placement will be addressed separately.

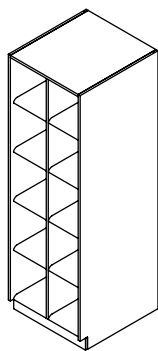
Cabinet Group 1, see page 12



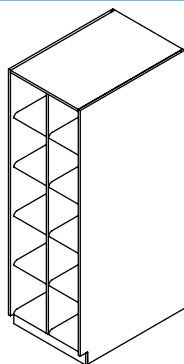
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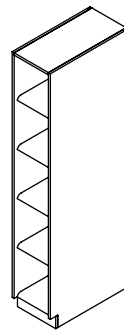
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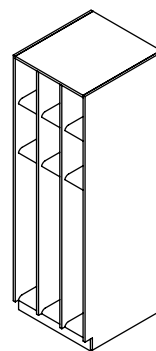
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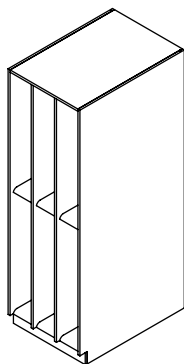
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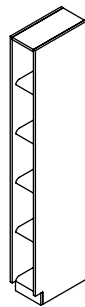
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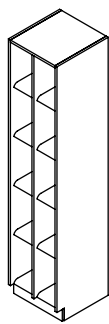
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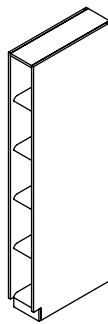
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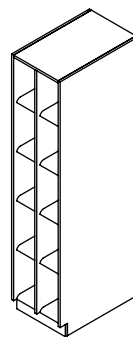
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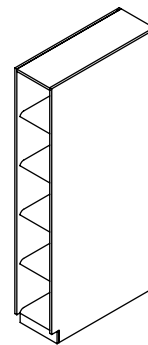
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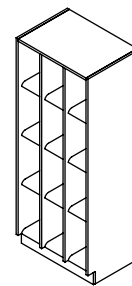
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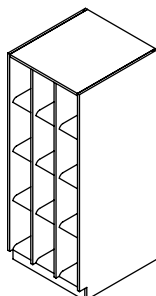
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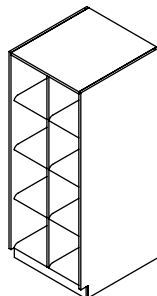
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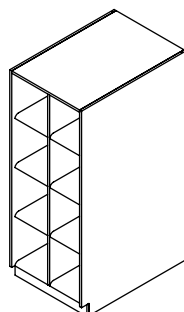
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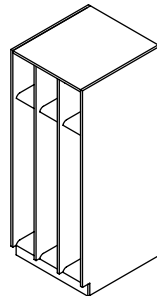
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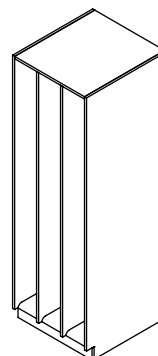
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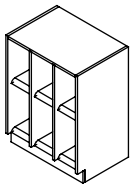


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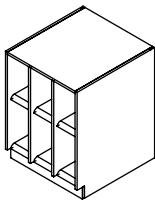
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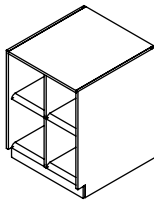
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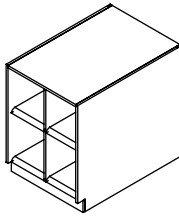
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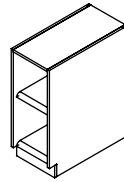
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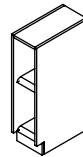
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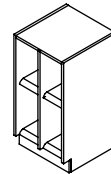
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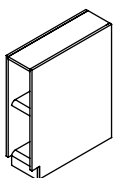
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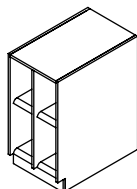
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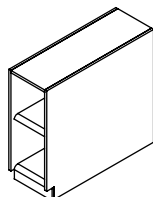
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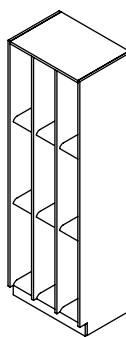
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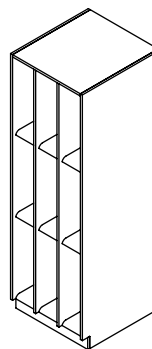
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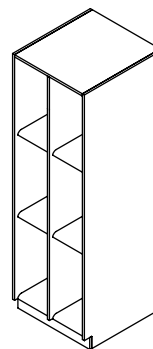
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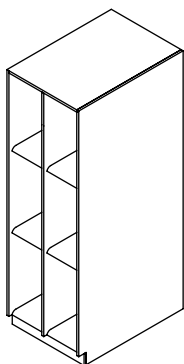
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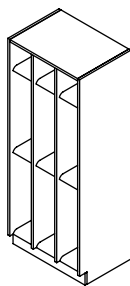
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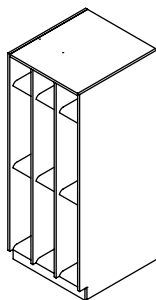
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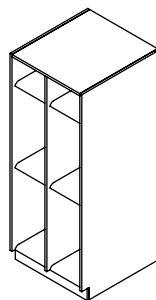
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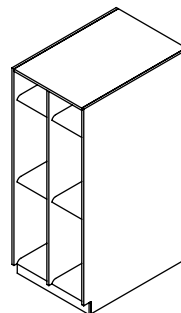
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**Cabinet  
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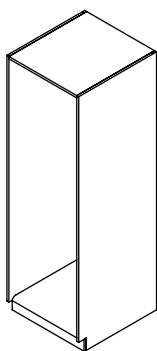
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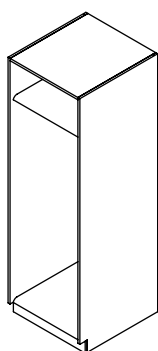
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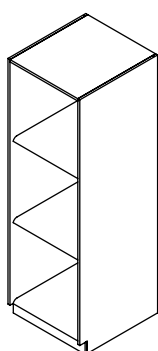
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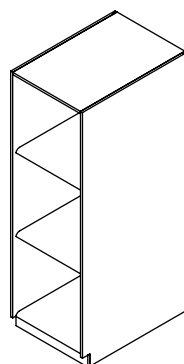
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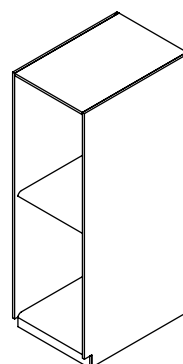
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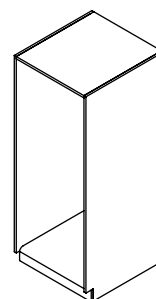
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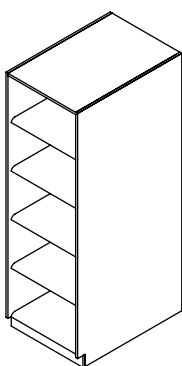
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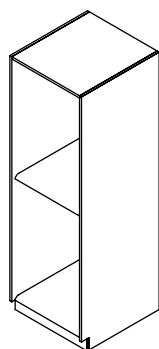
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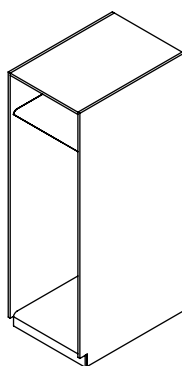
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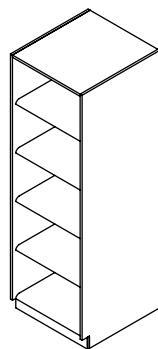
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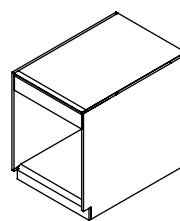
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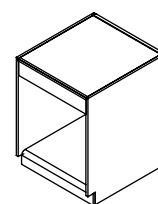
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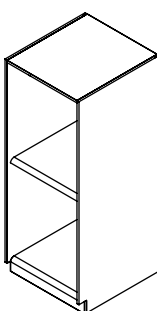
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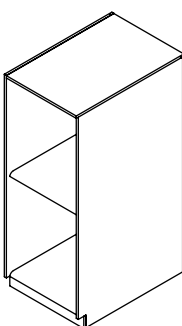
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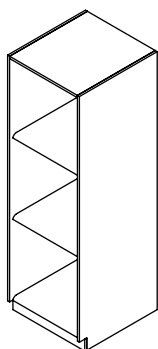
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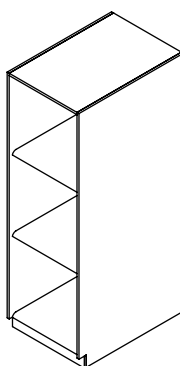
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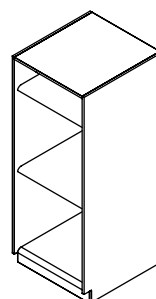
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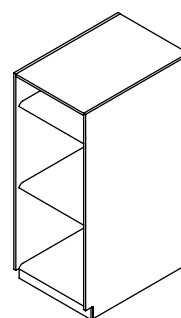
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Cabinet  
#75



Cabinet  
#81



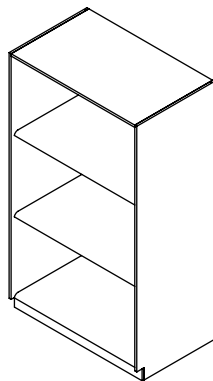
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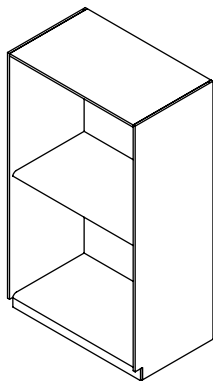
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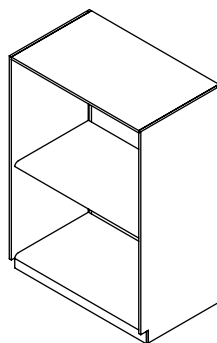
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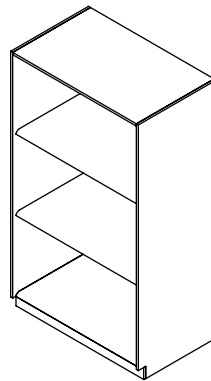
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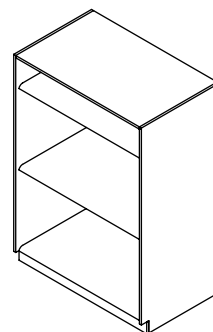
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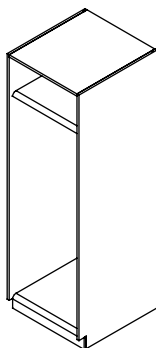


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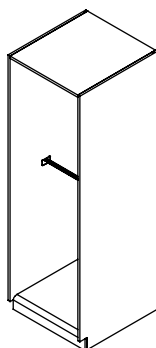


**Cabinet  
#83**

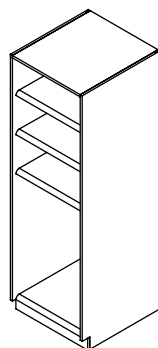
### **Cabinet Group 4, see page 18**



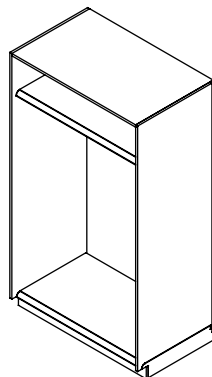
**Cabinet  
#31**



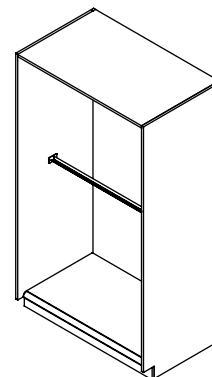
**Cabinet  
#32**



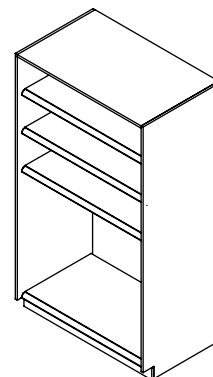
**Cabinet  
#33**



**Cabinet  
#34**



**Cabinet  
#35**



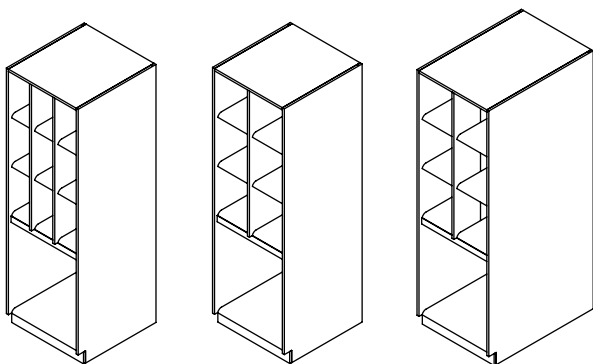
**Cabinet  
#36**

*Continued on following page.*

## ***Cabinet Identification*** (continued)

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### **Cabinet Group 5, see page 20**

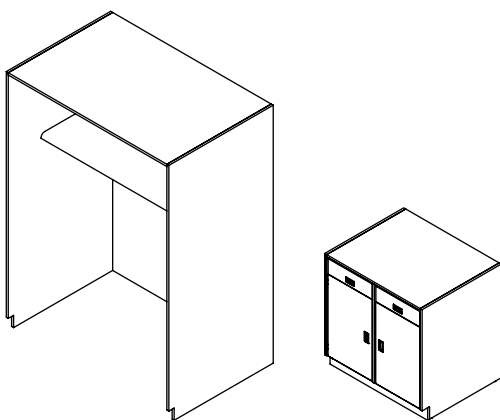


**Cabinet  
#3**

**Cabinet  
#6**

**Cabinet  
#7**

### **Cabinet Group 6, see page 22**



**Cabinet  
#17**

**Cabinet  
#62**

## *Before Installation*

---

### **Overview**

- Assembly and installation should be performed by skilled technical persons, and only after carefully studying these instructions.
- It is suggested that the cabinets are setup in a space that is large enough to safely handle the cartons, pieces, finished cabinets, and dunnage.
- Inspect the condition of the wall and floor where the cabinets will be located. If the wall is not straight, establish a reference line so that the fronts of all cabinets will line up. Also, determine the highest point on the floor, which will establish the leveled height of each row of cabinets.
- Build only one cabinet at a time, to avoid intermixing parts. Build each according to these instructions for the specific model.  
Do not start installing doors until all cabinets are assembled and in their final location, leveled, and secured to adjacent walls and cabinets.
- After all cabinets are in place, distribute the door cartons and door hardware sets to each cabinet. Assemble and hang the doors one at a time according to the instructions.  
Then clean off any fingerprints, dirt, and dust, using a clean rag and mild spray cleaner or acetone.

### **Before You Begin**

Keep the Packing List with the cabinet, for reference until the unit is completely assembled.

- Read the complete assembly procedure before beginning the assembly.
- The cabinet carton is marked with the cabinet number as shown in "Cabinet Identification".
- Hardware packs may contain extra fasteners that are not required on all cabinets.
- Because of the variety of possible wall surfaces, wall fasteners are not included.  
Have your maintenance personnel recommend an appropriate type for safe, secure attachment and have the fasteners available before assembling the cabinet.
- At least two people (preferably four) are required to assemble the cabinet and set it upright.

## *Installation Procedures*

---

1. Identify which Cabinet is being assembled.  
Refer to "Cabinet Identification", the cabinet carton and any installation drawings.
2. Assemble the cabinet according to "Assembly" on pages 12-24.
3. Level the cabinet according to "Level Cabinets" on pages 25-26.
4. If the cabinet has doors, attach them according to "Attach Doors" on pages 27-37.
5. If the cabinet is an AcoustiCabinet, attach the backing material according to "Attach Backing" on page 38.
6. Secure cabinets to the structure walls or secure them together according to "Secure Cabinets" on pages 39-46.
7. Install optional cover panels to the exposed cabinet ends according to "Finished Back Kit" and "Cover Panel Installation" on pages 47-49.
8. Install top closure panels to close empty spaces behind cabinets according to "Closure Panel Installation" on page 50.
9. For Cabinets 50-62, attach work surface tops according to "Work Surface Tops" on page 55.

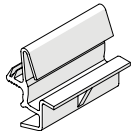
# Assembly - Group 1

Cabinets 01, 02, 04, 05, 13, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 46,  
51, 52, 54, 55, 56, 57, 58, 59, 60, 61, 70, 71, 72, 73, 77, 78, 79, 80

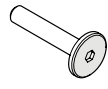
Hardware used:



8-32 Insert Nut ⑤



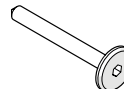
Fixed Height Shelf Clip ⑥



1/4-20 x 1.38" Machine Screw ⑦



Wood Dowel ⑧



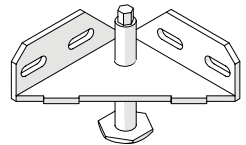
7 x 50 mm Hex Socket Screw ⑪



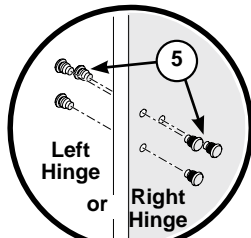
Tack Glide ⑫



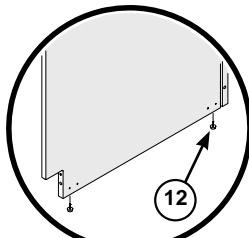
#8 x 5/8" Pan Head Screw ⑭



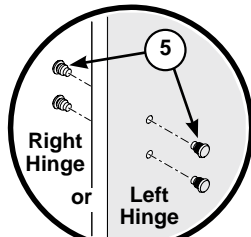
Leveler Bracket ⑬



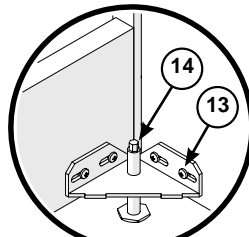
Detail 1A



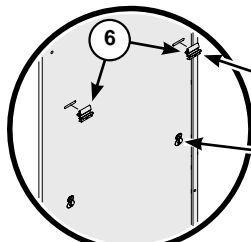
Detail 1F



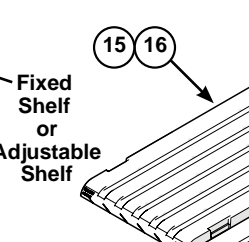
Detail 1B



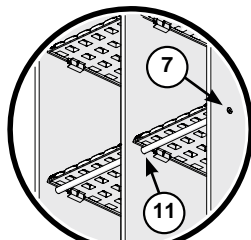
Detail 1G



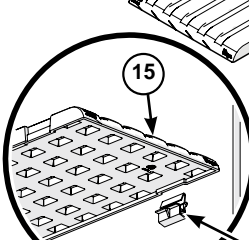
Detail 1C



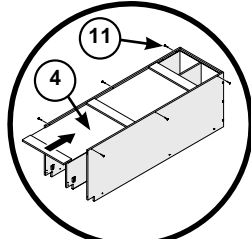
Detail 1H



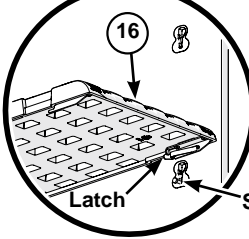
Detail 1D



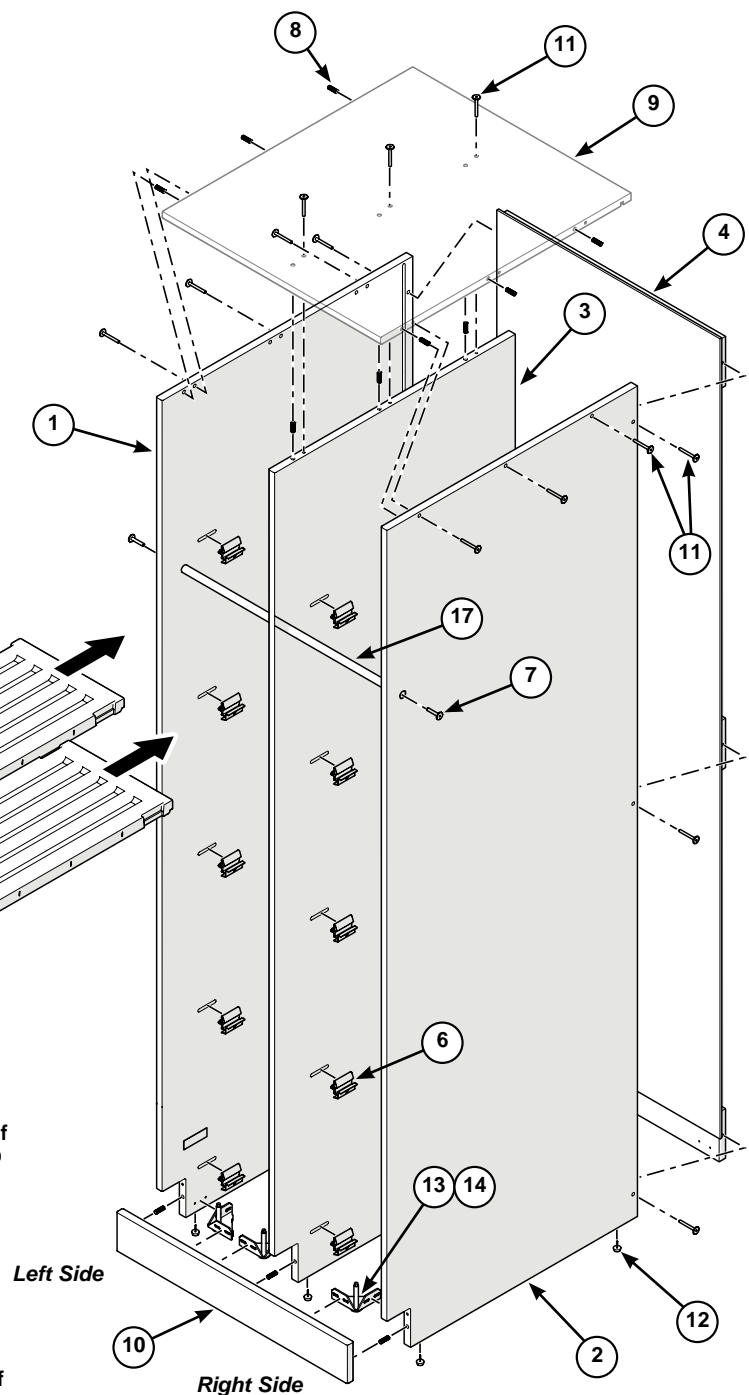
Detail 1E



Detail 1F



Detail 1G





## Assembly - Group 1 (continued)

### Pre-Assembly

**Note:** For panel orientation: the left side panel ①, right side panel ② and any center panels ③ have a notch in the bottom front corner. The side panels also have a groove in the rear to receive the back panel ④.

1. Install Door Mounts.  
**Skip this step if doors will not be installed.**
    - a. Per each compartment, lay the panels flat. For a left side door hinge, lay with the left surface up. For a right side door hinge, lay with the right surface up.
    - b. **See Detail 1A.** Install door hinge mounts. Use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel.
    - c. **See Detail 1B.** Install door striker plate mounts. Turn the panels over, use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (two per striker plate mount) located toward the front edge of each panel.
  2. Install shelf clips.  
**For fixed height shelves only, adjustable height shelf clips are pre-installed.**
    - a. **See Detail 1C.** Per each compartment, turn the panels so their inside surface is up.
    - b. Push fixed height shelf clips ⑥ (two clips in each panel side/four per shelf) into the inside surface of both compartments (side or center panels).
    - c. Turn any center panels over and repeat on the other side.
- Note:** Panels can be large and difficult to keep aligned when attaching together with screws. To assist, "peg" the panels first by inserting wood dowels to fit snugly into 5/16"-diameter holes in the panels. They may need to be tapped into place.
3. Insert wood dowels ⑧ into:
    - The left and right side edges of the top panel ⑨
    - the top edge and notch of any center panels ③
    - the backside of the bottom front stretcher panel ⑩.

### Panel Assembly

1. Turn the left and right side panels ① and ② on edge, with the front edges down. With wood dowels ⑧, peg the side panels to the top panel ⑨. Attach the side panels to the side edges of the top panel ⑨ with 7 x 50 mm hex socket screws ⑪.
2. **Cabinets 05, 19, 24 only. See Detail 1D.** Attach one tube ⑦ to both the left and right side panels ① and ② with one 1/4-20 x 1.38" machine screw ⑦ on each side. The tube will slide through any center panels.
3. Peg any center panels ③ to the top panel ⑨ and attach them with 7 x 50 mm hex socket screws ⑪.
4. Attach the back panel ④.
  - a. **See Detail 1E.** The bottom stretcher panel overlaps the bottom edge of the back panel.
  - b. With the three rear stretcher panels facing up, slide the back panel into the groove on the side and top panels.
5. Attach the sides of the rear stretcher panels to both side panels, using 7 x 50 mm hex socket screws ⑪.
6. Turn the cabinet assembly to face the front edges up.
7. Check that the cabinet assembly is square and tighten all screws.

### Attach Glides and Levelers

1. **See Detail 1F.** Tack glides help protect corners and edges while moving the cabinet into place. Push or hammer plastic tack glides ⑫ into the bottom edge of the side and any center panels, about 2" (51 mm) from the corners.
2. With wood dowels ⑧, peg the front stretcher panel ⑩ to the notch in the side panels and any center panels.
3. Attach leveler brackets.
  - a. **See Detail 1G.** Attach leveler brackets ⑬ to the inside of all four corners of the cabinet using #8 x 5/8" pan head screws ⑭. The leveler brackets attach to the inside of both side panels and to the front or rear stretcher panels.
  - b. If there are center panels, attach only one leveler bracket to the left-front side of the right-most center panel. Attach the other side to the front stretcher panel.
  - c. After the leveler brackets are attached, screw the levelers in so the plastic glides extend slightly further than the bottom of the levelers.

### Install Upper Shelves

1. Tip the assembled cabinet upright.
  2. Recheck that the cabinet is square.
  3. Recheck and tighten all hex-socket screws.
  4. **See Detail 1H.** Starting at the top of the cabinet, snap in the upper levels of shelves.  
**Do not install Shelves in 38" (973) tall cabinets.**
    - a. For fixed height shelves ⑮, snap each shelf down into the shelf clips at each corner.
    - b. For adjustable height shelves ⑯, flip the shelf pin down the in each corner at the desired shelf height and slide the shelf onto the shelf clips until the latch clicks. To remove a shelf, pull out on the latch and slide the shelf out. Wider shelves may have a latch on each side.
- Note:** To simplify leveling, do not install any lower levels of shelves yet.

### Final Cabinet Adjustment

1. Slide the assembled cabinet to the intended location.
2. Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
3. Install the remaining shelves into the lower levels.

### Final Cabinet Bank Assembly

1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the cabinet doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.

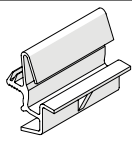
## Assembly - Group 2

Cabinets 08, 09, 10, 11, 14, 30, 43, 44, 45, 47, 50, 53, 65, 66, 74, 75, 81, 82

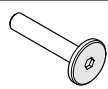
Hardware used:



8-32 Insert Nut ⑤



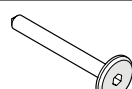
Fixed Height Shelf Clip ⑥



1/4-20 x 1.38" Machine Screw ⑦



Wood Dowel ⑧



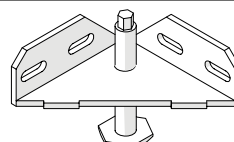
7 x 50 mm Hex Socket Screw ⑪



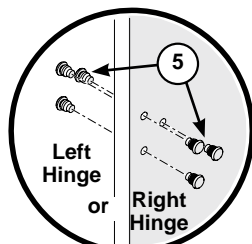
Tack Glide ⑫



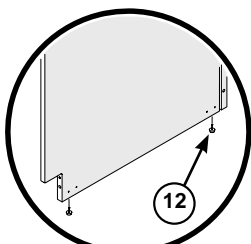
#8 x 5/8" Pan Head Screw ⑭



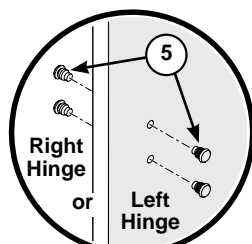
Leveler Bracket ⑬



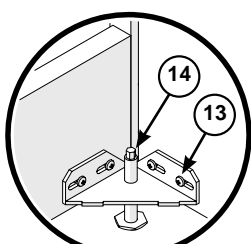
Detail 2A



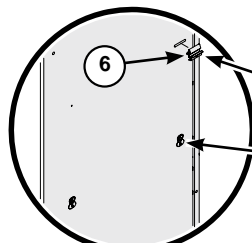
Detail 2F



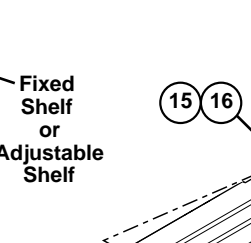
Detail 2B



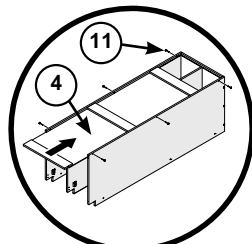
Detail 2G



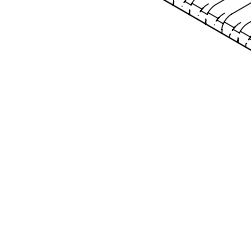
Detail 2C



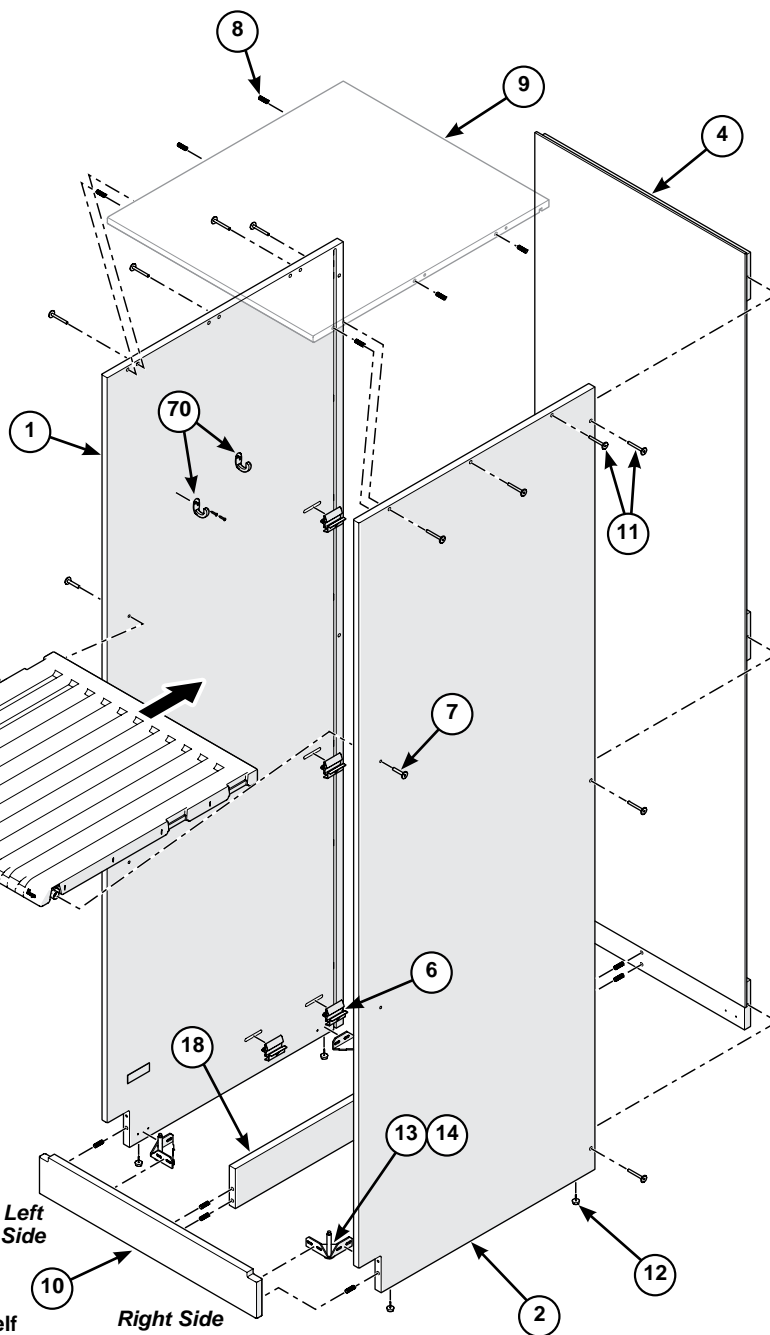
Detail 2D



Detail 2E



Detail 2H



## Assembly - Group 2 (continued)

### Pre-Assembly

**Note:** For panel orientation:

The left side panel ① and right side panel ② have a notch in the bottom front corner.

The side panels also have a groove in the rear to receive the back panel ④.

1. Install door mounts.

**Skip this step if doors will not be installed.**

- a. Per each compartment, lay the panels flat. For a left side door hinge, lay with the left surface up. For a right side door hinge, lay with the right surface up.
- b. **See Detail 2A.** Install door hinge mounts. Use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel.
- c. **See Detail 2B.** Install door striker plate mounts. Turn the panels over, use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (two per striker plate mount) located toward the front edge of each panel.

2. Install shelf clips.

**For fixed height shelves only, adjustable height shelf clips are pre-installed.**

- a. **See Detail 2C.** Per each compartment, turn the panels so their inside surface is up.
- b. Push fixed height shelf clips ⑥ into the back inside surface of both compartments. Bottom shelf requires two clips in each panel side/four per shelf and upper shelves require one clip in each panel side/two per shelf).

**Note:** Panels can be large and difficult to keep aligned when attaching together with screws.

To assist, "peg" the panels first by inserting wood dowels to fit snugly into 5/16"-diameter holes in the panels. They may need to be tapped into place.

3. Insert wood dowels ⑧ into:
  - The left and right side edges of the top panel ⑨
  - the backside of the bottom front stretcher panel ⑩.

### Panel Assembly

1. Turn the left and right side panels ① and ② on edge, with the front edges down. With wood dowels ⑧, peg the side panels to the top panel ⑨. Attach the side panels to the side edges of the top panel ⑨ with 7 x 50 mm hex socket screws ⑪.
2. Attach the back panel ④.
  - a. **See Detail 2D.** The bottom stretcher panel overlaps the bottom edge of the back panel.
  - b. With the three rear stretcher panels facing up, slide the back panel into the groove on the side and top panels.
3. Attach the sides of the rear stretcher panels to both side panels, using 7 x 50 mm hex socket screws ⑪.
4. Turn the cabinet assembly to face the front edges up.
5. With wood dowels ⑧, peg the cross stretcher panel ⑬ to the bottom rear stretcher panel, then peg the front stretcher panel ⑩ to it.
6. With wood dowels ⑧, peg the front stretcher panel ⑩ to the notch in the side panels.

7. **Cabinets 50 and 53 only. See Detail 2E.**

Attach top front stretcher panel.

- a. Place the top front stretcher panel ⑱ underneath the top panel and between the side panels.
- b. Attach the sides of the top front stretcher panel to both side panels, using 7 x 50 mm hex socket screws ⑪.

8. Check that the cabinet assembly is square and tighten all screws.

### Attach Glides and Levelers

1. **See Detail 2F.** Tack glides help protect corners and edges while moving the cabinet into place. Push or hammer plastic tack glides ⑫ into the bottom edge of the side and any center panels, about 2" (51 mm) from the corners.
2. Attach leveler brackets.
  - a. **See Detail 2G.** Attach leveler brackets ⑬ to the inside of all four corners of the cabinet using #8 x 5/8" pan head screws ⑭. The leveler brackets attach to the inside of both side panels and to the front or rear stretcher panels.
  - b. After the leveler brackets are attached, screw the levelers in so the plastic glides extend slightly further than the bottom of the levelers.

### Install Upper Shelves and Hooks

1. Tip the assembled cabinet upright.
2. Recheck that the cabinet is square.
3. Recheck and tighten all hex-socket screws.
4. **See Detail 2H** Starting at the top of the cabinet, snap in the upper levels of shelves.

**Do not install shelves in Cabinets 50 and 53.**

  - a. For fixed height shelves, rest the shelf on the rear shelf clips and attach the front support tubes to the side panels using with one 1/4-20 x 1.38" machine screw ⑦ on each side.
  - b. For adjustable height shelves ⑯, flip the shelf pin down the in each corner at the desired shelf height and slide the shelf onto the shelf clips until the latch clicks. To remove a shelf, pull out on the latch and slide the shelf out. Wider shelves may have a latch on each side.

**Note:** Cabinets 10 and 11 have two upper shelves; Cabinet 14 has only one upper shelf, in the middle.

**Note:** To simplify leveling, do not install any lower levels of shelves yet.

5. **Cabinets 8, 9, 30 and 45 only.**

Install two brass hooks ⑰ to the inside surface of the left side panel ① with the included brass screws. Use two screws per hook, pilot holes indicate the locations.

### Final Cabinet Adjustment

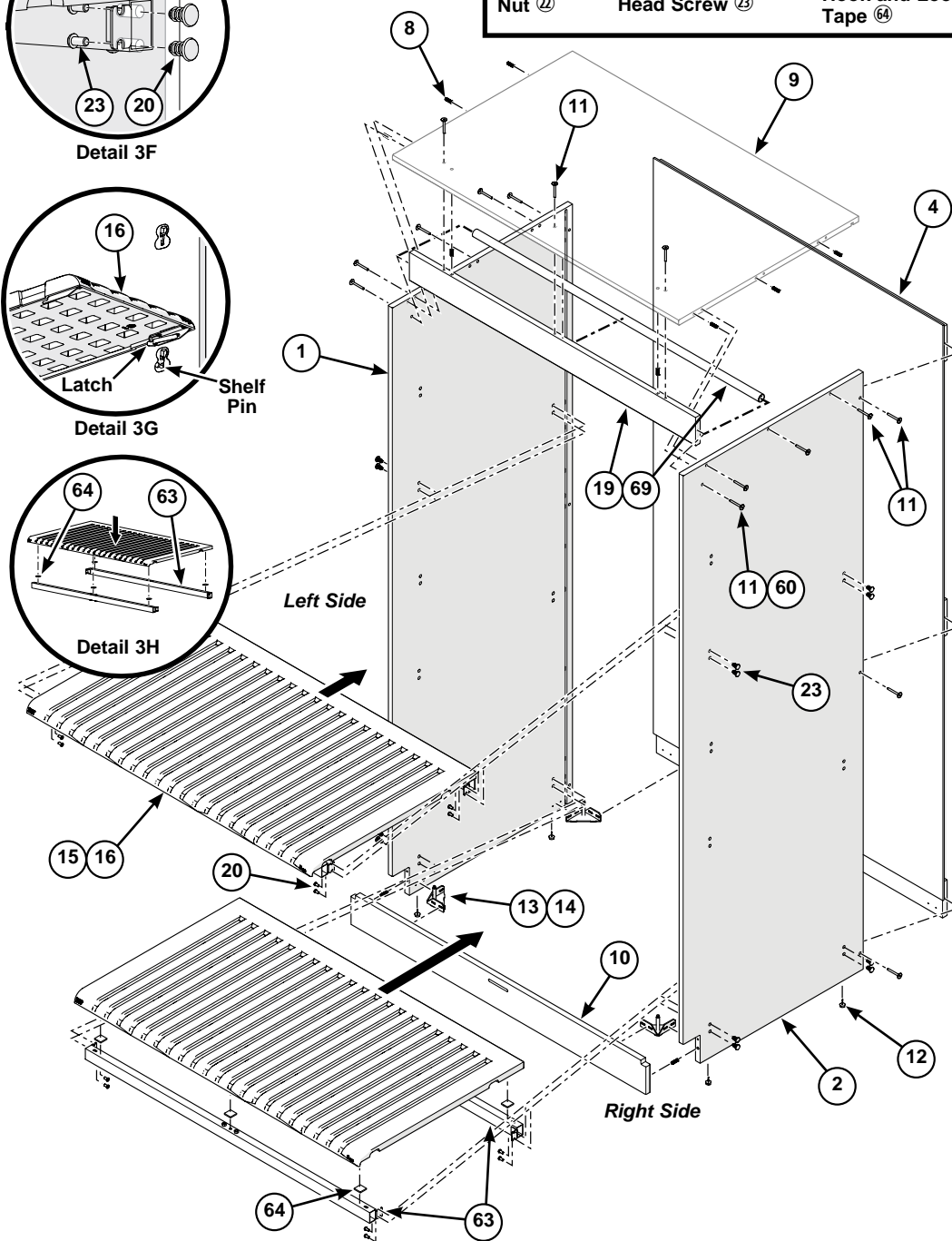
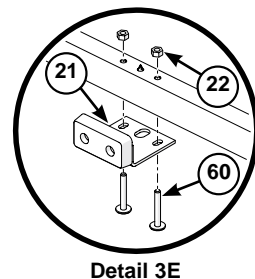
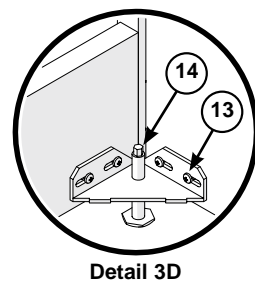
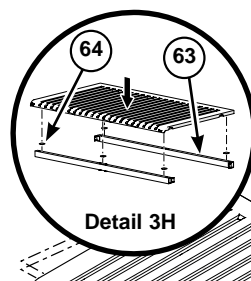
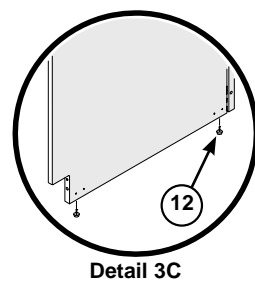
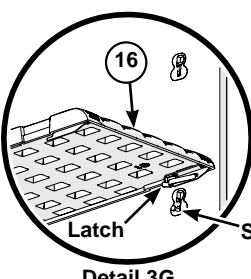
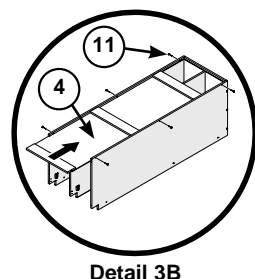
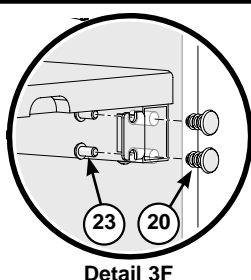
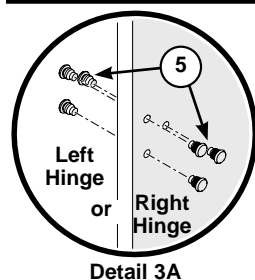
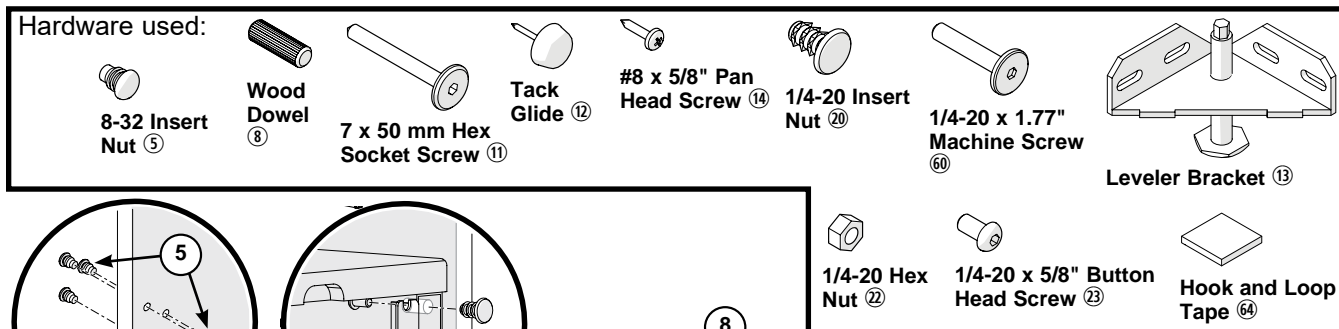
1. Slide the assembled cabinet to the intended location.
2. Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
3. Install the remaining shelves into the lower levels.

### Final Cabinet Bank Assembly

1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the cabinet doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.

# Assembly - Group 3

Cabinets 12, 15, 67, 76, 83



## Assembly - Group 3 (continued)

### Pre-Assembly

**Note:** For panel orientation: the left side panel ① and right side panel ② have a notch in the bottom front corner. The side panels also have a groove in the rear to receive the back panel ④.

1. Install door mounts.  
**Skip this step if doors will not be installed.**
  - a. Per each compartment, lay the panels flat.  
For a left side door hinge, lay with the left surface up.  
For a right side door hinge, lay with the right surface up.
  - b. **See Detail 3A.** Install door hinge mounts.  
Use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel.
2. **See Detail 3E (Cabinets 12, 15 and 67 only).**  
There are holes in each side panel that will be used later for shelf support bar screws (two per each shelf support bar end in each side panel).  
Use a plastic mallet to pound 1/4-20 insert nuts ②⑩ into these holes.

**Note:** Panels can be large and difficult to keep aligned when attaching together with screws.  
To assist, "peg" the panels first by inserting wood dowels to fit snugly into 5/16"-diameter holes in the panels. They may need to be tapped into place.

3. Insert wood dowels ⑧ into:
  - The left and right side edges of the top panel ⑨
  - the backside of the bottom front stretcher panel ⑩.
  - The top of the top front stretcher panel ⑨.

### Panel Assembly

1. Turn the left and right side panels ① and ② on edge, with the front edges down. With wood dowels ⑧, peg the side panels to the top panel ⑨.  
Attach the side panels to the side edges of the top panel ⑨ with 7 x 50 mm hex socket screws ⑪.
2. Attach the back panel ④.
  - a. **See Detail 3B.** The bottom stretcher panel overlaps the bottom edge of the back panel.
  - b. With the three rear stretcher panels facing up, slide the back panel into the groove on the side and top panels.
3. Attach the sides of the rear stretcher panels to both side panels, using 7 x 50 mm hex socket screws ⑪.
4. Turn the cabinet assembly to face the front edges up.
5. **Fixed Height Shelf Cabinets 12, 15 and 67 only.**  
Attach the front stretcher panel ⑩.
  - a. With wood dowels ⑧, peg the front stretcher panel ⑩ to the notch in the side panels.
  - b. Attach top front stretcher panel.
    - Place the top front stretcher panel ⑩ underneath the top panel and between the side panels.
    - Attach the sides of the top front stretcher panel to both side panels, using 7 x 50 mm hex socket screws ⑪.

#### Adjustable Height Shelf Cabinets 76 and 83 only.

Attach the top tube ⑥ to both side panels using 1/4-20 x 1.77" machine screws ⑥⑩.

6. Check that the cabinet assembly is square and tighten all screws.

### Attach Glides and Levelers

1. **See Detail 3C.** Tack glides help protect corners and edges while moving the cabinet into place.  
Push or hammer plastic tack glides ⑫ into the bottom edge of the side and any center panels, about 2" (51 mm) from the corners.

2. Attach leveler brackets.
  - a. **See Detail 3D.** Attach leveler brackets ⑬ to the inside of all four corners of the cabinet using #8 x 5/8" pan head screws ⑭. The leveler brackets attach to the inside of both side panels and to the front or rear stretcher panels.
  - b. After the leveler brackets are attached, screw the levelers in so the plastic glides extend slightly further than the bottom of the levelers.

### Install Upper Shelves

1. Tip the assembled cabinet upright.
2. Recheck that the cabinet is square.
3. Recheck and tighten all hex-socket screws.
4. **See Detail 3E.** If doors will be installed, attach a bumper assembly ⑮ To the center two holes under the front shelf support bar using 1/4-20 x 1.77" machine screws ⑥ and 1/4-20 hex nuts ②.
  - **For Double Full-Length Doors:**  
attach the bumper assembly the front of the bottom shelf.
  - **For Double Compartment Doors:**  
attach the bumper assembly to the front of every shelf.

#### See Detail 3F

##### Fixed Height Shelf Cabinets 12, 15 and 67 only.

Using two 1/4-20 x 5/8" button head screws ② on each side, attach the fixed height shelves ⑯ into the insert nuts installed in "Pre-Assembly Step 2".

#### See Detail 3G

##### Adjustable Height Shelf Cabinets 76 and 83 only.

Starting at the top of the cabinet, flip the shelf pin down in each corner at the desired shelf height and slide the adjustable height shelves ⑯ onto the shelf clips until the latch clicks.

To remove a shelf, pull out on the latch and slide the shelf out. Wider shelves may have a latch on each side.

**Note:** To simplify leveling, do not install the lower shelf yet.

### Final Cabinet Adjustment

1. Slide the assembled cabinet to the intended location.
2. Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
3. Install the Lower Shelf.
  - a. **See Detail 3F.** Using two 1/4-20 x 5/8" button head screws ② on each side, attach shelf support bars ③ into the bottom screw inserts installed in "Pre-Assembly Step 2".
  - b. **See Detail 3H.** Peel the backing from one side of the hook and loop strips ⑭ and attach them to the shelf support bars (three on the front bar and two on the back bar). **Do not separate the strips.**  
Remove the remaining strip backing and place the shelf against the back panel ④ while pressing it onto the shelf supports.

### Final Cabinet Bank Assembly

1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the Cabinet Doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.



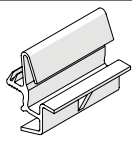
# Assembly - Group 4

Cabinets 31, 32, 33, 34, 35, 36

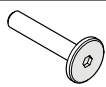
Hardware used:



8-32 Insert Nut (5)



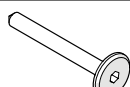
Fixed Height Shelf Clip (6)



1/4-20 x 1.38" Machine Screw (7)



Wood Dowel (8)



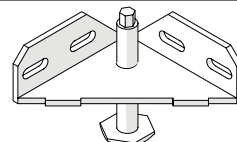
7 x 50 mm Hex Socket Screw (11)



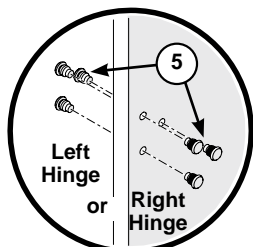
Tack Glide (12)



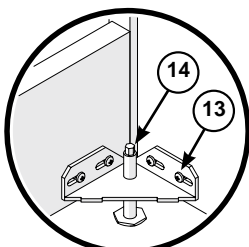
#8 x 5/8" Pan Head Screw (14)



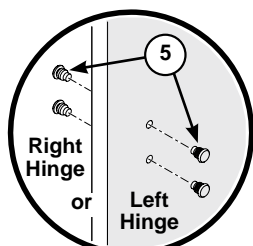
Leveler Bracket (13)



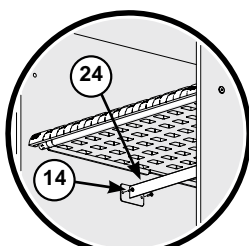
Detail 4A



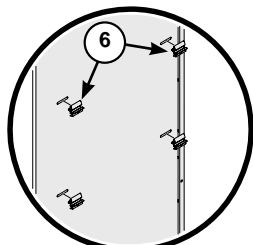
Detail 4F



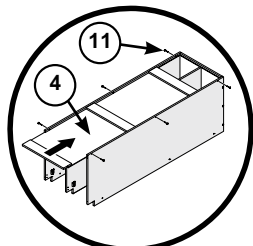
Detail 4B



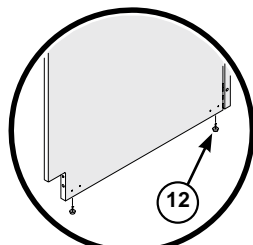
Detail 4G



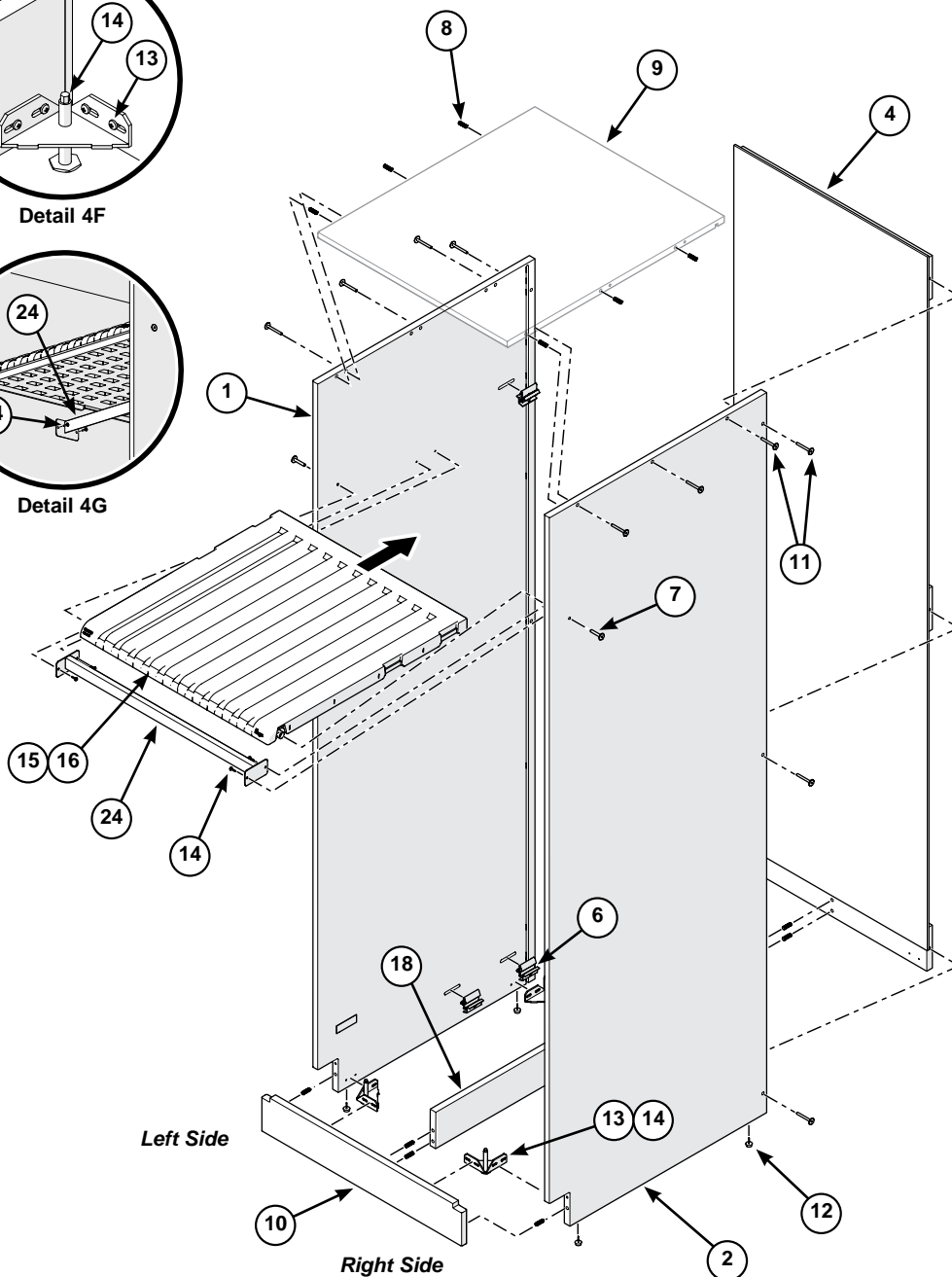
Detail 4C



Detail 4D



Detail 4E



## Assembly - Group 4 (continued)

### Pre-Assembly

**Note:** For panel orientation:  
the left side panel ① and right side panel ② have a notch in the bottom front corner.  
The side panels also have a groove in the rear to receive the back panel ④.

1. Install door mounts.  
**Skip this step if doors will not be installed.**
  - a. Per each compartment, lay the panels flat.  
For a left side door hinge, lay with the left surface up.  
For a right side door hinge, lay with the right surface up.
  - b. **See Detail 4A.** Install door hinge mounts.  
Use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel.
  - c. **See Detail 4B.** Install door striker plate mounts.  
Turn the panels over, use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (two per striker plate mount) located toward the front edge of each panel.

2. Install shelf clips.  
**For fixed height shelves only, adjustable height shelf clips are pre-installed.**

- a. **See Detail 4C.** Per each compartment, turn the panels so their inside surface is up.
- b. Push fixed height shelf clips ⑥ into the back inside surface of both compartments.  
Bottom shelf requires two clips in each panel side/four per shelf and upper shelves require one clip in each panel side/two per shelf)

**Note:** Panels can be large and difficult to keep aligned when attaching together with screws.  
To assist, "peg" the panels first by inserting wood dowels to fit snugly into 5/16"-diameter holes in the panels. They may need to be tapped into place.

3. Insert wood dowels ⑧ into:
  - The left and right side edges of the top panel ⑨
  - the backside of the bottom front stretcher panel ⑩.

### Panel Assembly

1. Turn the left and right side panels ① and ② on edge, with the front edges down. With wood dowels ⑧, peg the side panels to the top panel ⑨.  
Attach the side panels to the side edges of the top panel ⑨ with 7 x 50 mm hex socket screws ⑪.
2. Attach the back panel ④.
  - a. **See Detail 4D.** The bottom stretcher panel overlaps the bottom edge of the back panel.
  - b. With the three rear stretcher panels facing up, slide the back panel into the groove on the side and top panels.
3. Attach the sides of the rear stretcher panels to both side panels, using 7 x 50 mm hex socket screws ⑪.
4. Turn the cabinet assembly to face the front edges up.
5. **Cabinets 31, 32 and 33 only.** With wood dowels ⑧, peg the cross stretcher panel ⑩ to the bottom rear stretcher panel, then peg the front stretcher panel ⑩ to it.
6. With wood dowels ⑧, peg the front stretcher panel ⑩ to the notch in the side panels.
7. Check that the cabinet assembly is square and tighten all screws.

### Attach Glides and Levelers

1. **See Detail 4E.** Tack glides help protect corners and edges while moving the cabinet into place.  
Push or hammer plastic tack glides ⑫ into the bottom edge of the side and any center panels, about 2" (51 mm) from the corners.
2. Attach leveler brackets.
  - a. **See Detail 4F.** Attach leveler brackets ⑬ to the inside of all four corners of the cabinet using #8 x 5/8" pan head screws ⑭. The leveler brackets attach to the inside of both side panels and to the front or rear stretcher panels.
  - b. After the leveler brackets are attached, screw the levelers in so the plastic glides extend slightly further than the bottom of the levelers.

### Install Upper Shelves

1. Tip the assembled cabinet upright.
2. Recheck that the cabinet is square.
3. Recheck and tighten all hex-socket screws.
4. **See Detail 4G.** If the cabinet has a hanger bar ⑮.
  - a. Align the hanger bar tabs with the holes in the middle of both side panels.  
The flat surface of the bar (with holes) should face toward the front of the cabinet.
  - b. Attach the hanger bar, using two #8 x 5/8" pan head screws ⑭ on each side.

**Note:** When installing the hanger bar or upper shelf support bracket, loosening the screws in the top panel may help to prevent scratching the side panels.

5. Starting at the top of the cabinet, snap the upper levels of fixed height shelves ⑮ down into the shelf clips.  
Rest the shelf on the rear shelf clips and attach the front support tubes to the side panels using with one 1/4-20 x 1.38" machine screw ⑦ on each side.

**Note:** To simplify leveling, do not install the bottom shelf yet.

### Final Cabinet Adjustment

1. Slide the assembled cabinet to the intended location.
2. Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
3. Install the remaining shelves into the lower levels.
4. **Cabinets 34, 35 and 36 only, see the illustration on page 16.** Install the Lower Shelf.
  - a. **See Detail 3F.** Using two 1/4-20 x 5/8" button head screws ⑲ on each side, attach shelf support bars ⑲ into the bottom screw inserts installed in "Pre-Assembly Step 2".
  - b. **See Detail 3H.** Peel the backing from one side of the hook and loop strips ⑳ and attach them to the shelf support bars (three on the front bar and two on the back bar). **Do not separate the strips.**  
Remove the remaining strip backing and place the shelf against the back panel ④ while pressing it onto the shelf supports.

### Final Cabinet Bank Assembly

1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the Cabinet Doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.

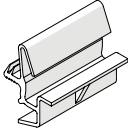
# Assembly - Group 5

Cabinets 03, 06, 07

Hardware used:



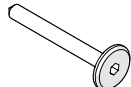
8-32 Insert Nut (5)



Fixed Height Shelf Clip (6)



Wood Dowel (8)



7 x 50 mm Hex Socket Screw (11)



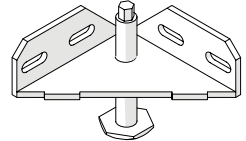
Tack Glide (12)



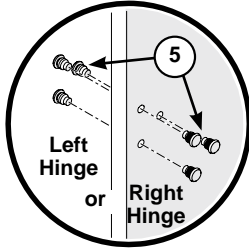
#8 x 5/8" Pan Head Screw (14)



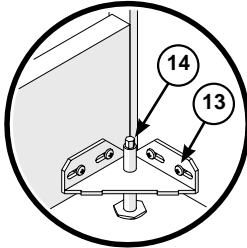
#8 x 1-1/4" Pan Head Screw (27)



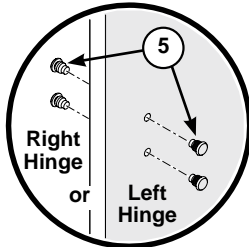
Leveler Bracket (13)



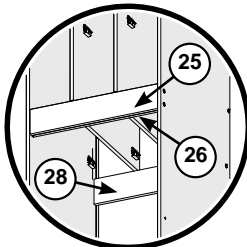
Detail 5A



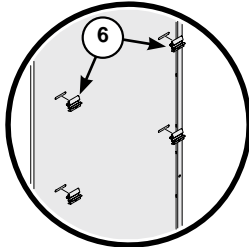
Detail 5F



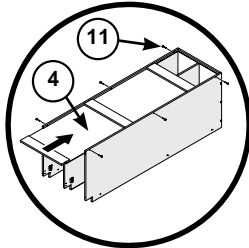
Detail 5B



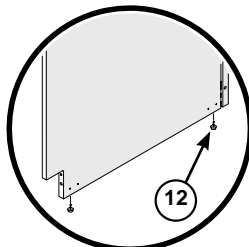
Detail 5G



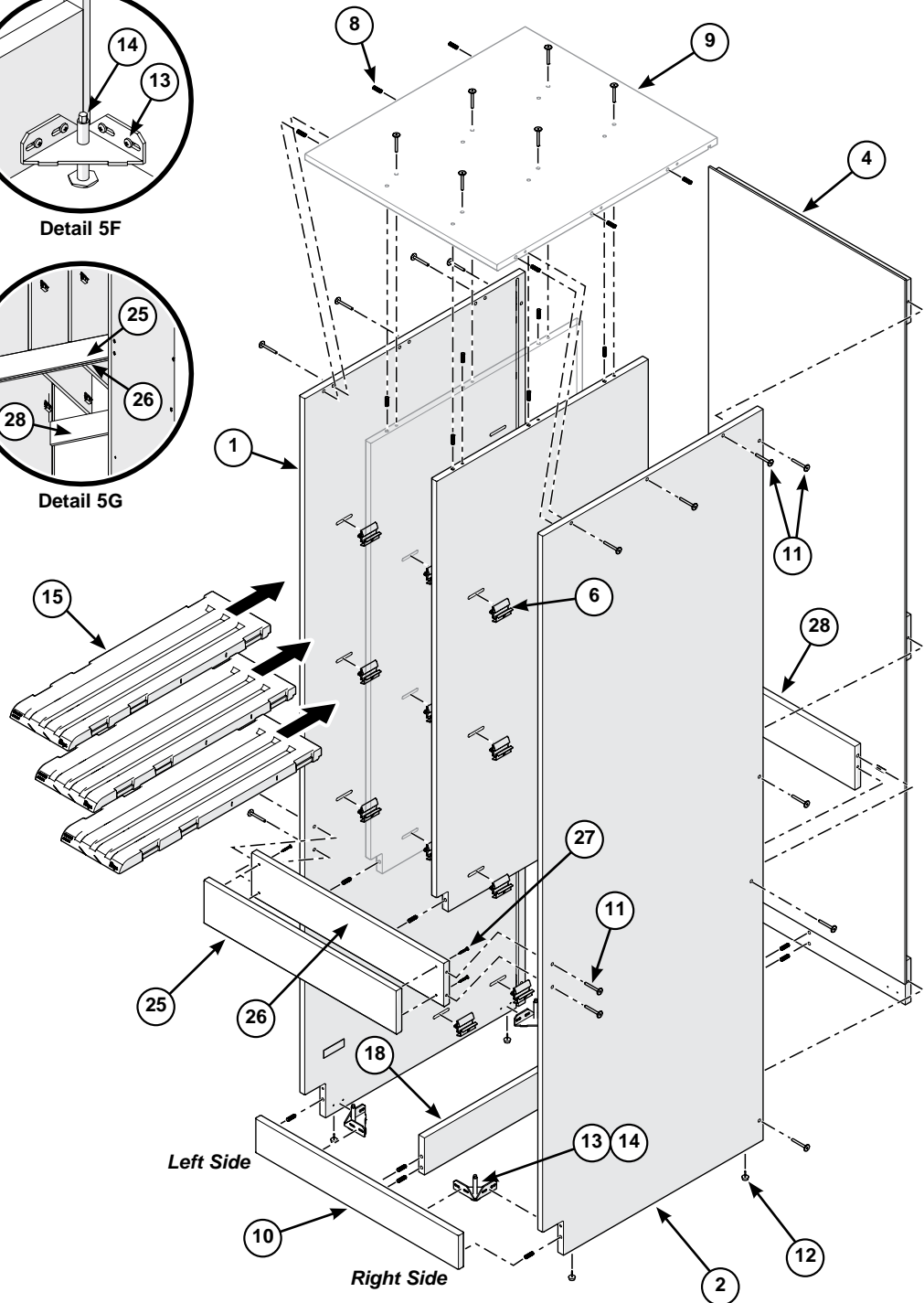
Detail 5C



Detail 5D



Detail 5E





## Assembly - Group 5 (continued)

### Pre-Assembly

**Note:** For panel orientation:  
the left side panel ①, right side panel ② and any center panels ③ have a notch in the bottom front corner.  
The side panels also have a groove in the rear to receive the back panel ④.

1. Install door mounts.  
**Skip this step if doors will not be installed.**
    - a. Per each compartment, lay the panels flat.  
For a left side door hinge, lay with the left surface up.  
For a right side door hinge, lay with the right surface up.
    - b. **See Detail 5A.** Install door hinge mounts.  
Use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel.
    - c. **See Detail 5B.** Install door striker plate mounts.  
Turn the panels over, use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (two per striker plate mount) located toward the front edge of each panel.
  2. Install shelf clips.
    - a. **See Detail 5C.** Per each compartment, turn the panels so their inside surface is up.
    - b. Push fixed height shelf clips ⑥ (two clips in each panel side/four per shelf) into the inside surface of both compartments (side or center panels).
    - c. Turn any center panels over and repeat on the other side.
- Note:** Panels can be large and difficult to keep aligned when attaching together with screws.  
To assist, "peg" the panels first by inserting wood dowels to fit snugly into 5/16"-diameter holes in the panels. They may need to be tapped into place.
3. Insert wood dowels ⑧ into:
    - the left and right side edges of the top panel ⑨
    - the top edge and notch of any center panels ③
    - the backside of the bottom front stretcher panel ⑩.

### Panel Assembly

1. Turn the left and right side panels ① and ② on edge, with the front edges down.
    - a. With wood dowels ⑧, peg the side panels to the top panel ⑨.
    - b. Attach the side panels to the side edges of the top panel ⑨ with 7 x 50 mm hex socket screws ⑪.
  2. Peg the center panels ③ to the top panel ⑨.
    - a. Peg the closure panel ⑫ to the center panels ③.
    - b. Peg the inside rear stretcher panel ⑬ to the inside of both side panels in front of the groove along the cabinet back (about halfway down).
    - c. Attach the center panels ③ to the top panel ⑨ with 7 x 50 mm hex socket screws ⑪.
- Do not attach the closure panel ⑫ or the inside rear stretcher panel ⑬ with screws yet.**
3. Attach the back panel ④.
    - a. **See Detail 5D.** The bottom stretcher panel overlaps the bottom edge of the back panel.
    - b. With the three rear stretcher panels facing up, slide the back panel into the groove on the side and top panels.

4. Align and clamp the filler panel ⑮ with the closure panel ⑫ so the pilot holes in the filler panel face the closure panel. Both panels should be flush along all edges.

**Note:** The filler panel ⑮ is not used on cabinets with a full-length cabinet door installed.

5. **See Detail 5G.** Attach the filler panel ⑮ to the closure panel ⑫ using four #8 x 1-1/4" pan head screws from the back side (inside of the cabinet) until the heads of the screws are nearly flush with the back surface and the filler panel is tight against the closure panel.
6. Attach the closure panel ⑫, the sides of the rear stretcher panels and inside rear stretcher panel ⑬ to both side panels, using 7 x 50 mm hex socket screws ⑪.
7. With wood dowels ⑧, peg the cross stretcher panel ⑭ to the bottom rear stretcher panel, then peg the front stretcher panel ⑩ to it.
8. With wood dowels ⑧, peg the front stretcher panel ⑩ to the notch in the side panels.
9. Turn the cabinet assembly to face the front edges up.
10. Check that the cabinet assembly is square and tighten all screws.

### Attach Glides and Levelers

1. **See Detail 5E.** Tack glides help protect corners and edges while moving the cabinet into place.  
Push or hammer plastic tack glides ⑯ into the bottom edge of the side and any center panels, about 2" (51 mm) from the corners.
2. Attach leveler brackets.
  - a. **See Detail 5F.** Attach leveler brackets ⑰ to the inside of all four corners of the cabinet using #8 x 5/8" pan head screws ⑱. The leveler brackets attach to the inside of both side panels and to the front or rear stretcher panels.
  - b. After the leveler brackets are attached, screw the levelers in so the plastic glides extend slightly further than the bottom of the levelers.

### Install Upper Shelves

1. Tip the assembled cabinet upright.
2. Recheck that the cabinet is square.
3. Recheck and tighten all hex-socket screws.
4. Starting at the top of the cabinet, snap the upper levels of fixed height shelves ⑵ down into the shelf clips.

**Note:** To simplify leveling, do not install the bottom shelf yet.

### Final Cabinet Adjustment

1. Slide the assembled cabinet to the intended location.
2. Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
3. Install the remaining shelves into the lower levels.

### Final Cabinet Bank Assembly

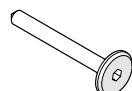
1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the cabinet doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.

# Assembly - Group 6 Cabinet 17

Hardware used:



8-32 Insert Nut ⑤



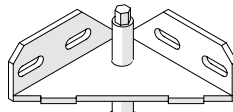
7 x 50 mm Hex Socket Screw ⑪



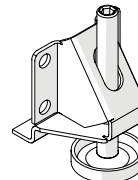
#8 x 5/8" Pan Head Screw ⑭



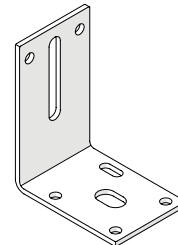
1/4-20 x 5/8" Button Head Screw ⑲



Leveler Bracket ⑬



Side Leveler ⑲



Cleat ⑳



Wood Dowel ⑧



Tack Glide ㉑



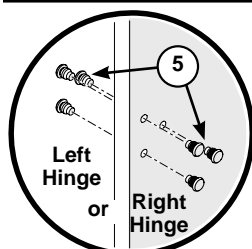
1/4-20 Insert Nut ㉒



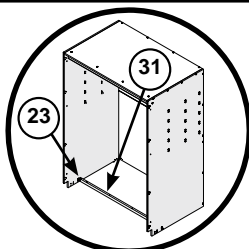
3/4" Flat Head Screw ㉓



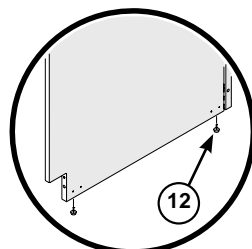
0.35 x 0.6 Vinyl Cap ㉔



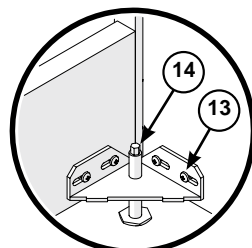
Detail 6A



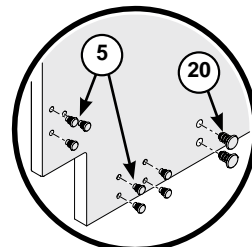
Detail 6F



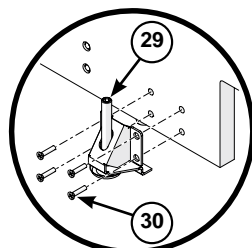
Detail 6B



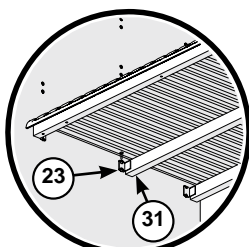
Detail 6C



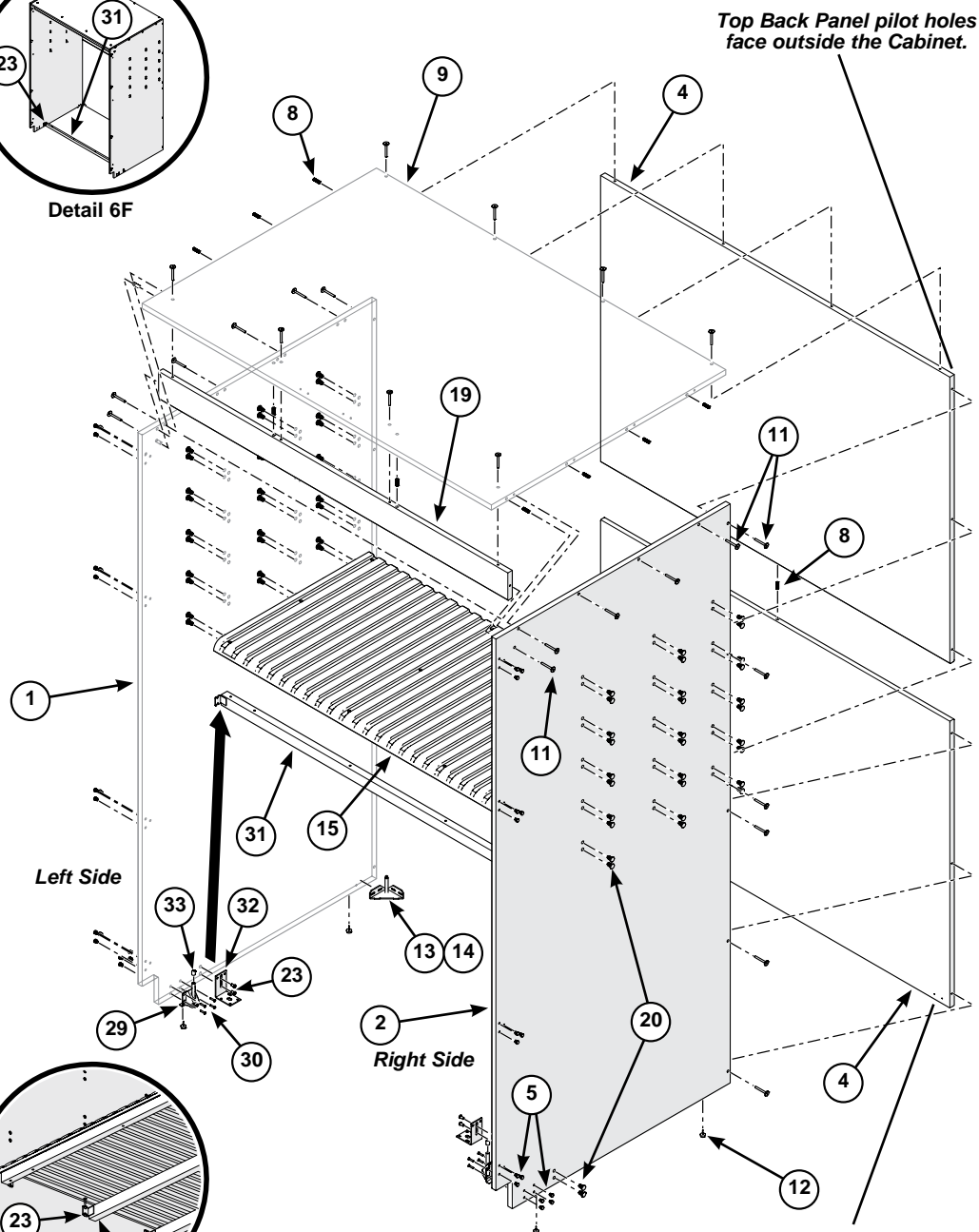
Detail 6D



Detail 6E



Detail 6G



## Assembly - Group 6 Cabinet 17 (continued)

### Pre-Assembly

**Note:** For panel orientation:

The left side panel ① and right side panel ② have a notch in the bottom front corner.

1. Lay the right side panel ② flat with the outside surface up. The dowel holes do not go through to the outside surface.

2. Install door mounts.

**Skip this step if doors will not be installed.**

**See Detail 6A.** Install door hinge mounts.

Use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel. These will later be used for door hinges.

3. **See Detail 6D.** Pound 8-32 insert nuts ⑤ into the holes (three per hinge mount) located toward the front edge of each panel. These will later be used for side levelers.
4. There are thirty holes in the side panel that will be used for the shelf support bar. Pound 1/4-20 insert nuts ②⑩ into all of these holes.
5. **See Detail 6D.** Pound 1/4-20 insert nuts ②⑩ into the two holes located at the bottom of the side panel. These will later be used for cleats.
6. **See Detail 6B.** Tack glides help protect corners and edges while moving the cabinet into place. Push or hammer plastic tack glides ⑫ into the bottom edge of the side panel, about 4" from the corners.
7. **See Detail 6E.** Attach a side leveler ②⑨ towards the front of the panel using 3/4" flat head screws ③⑩ into the insert nuts from Step 3.
8. Repeat steps 1 through 7 on the left side panel ①.

**Note:** Panels can be large and difficult to keep aligned when attaching together with screws. To assist, "peg" the panels first by inserting wood dowels to fit snugly into 5/16"-diameter holes in the panels. They may need to be tapped into place.

9. Insert wood dowels ⑧ into:
  - The left and right side edges of the top panel ⑨
  - the top of the top front stretcher panel ⑪.
10. Attach the sides of the top front stretcher panel ⑪ to the top panel ⑨ using 7 x 50 mm hex socket screws ⑪.

### Panel Assembly

1. Turn the left and right side panels ① and ② on edge, with the front edges down.
  - a. With wood dowels ⑧, peg the side panels to the top panel ⑨.
  - b. Attach the side panels to the side edges of the top panel ⑨ and the top front stretcher panel ⑪ with 7 x 50 mm hex socket screws ⑪.
2. With wood dowels ⑧, peg the two back panels ④ together and attach them to the side and top panels with 7 x 50 mm hex socket screws ⑪.

**Note:** The pilot holes at the top of the top back panel face outside of the cabinet and the pilot holes at the bottom of the bottom back panel face inside of the cabinet.

3. For support, temporarily attach one shelf support bar ③① To the bottom of both side panels with 1/4-20 x 5/8" button head screws ② into the insert nuts from step 5.

4. Attach leveler brackets.

- a. **See Detail 6C.** Attach leveler brackets ③ to the inside back corners of the cabinet using #8 x 5/8" pan head screws ⑭. The leveler brackets attach to the inside of both side panels and to the rear stretcher panels.
- b. After the leveler brackets are attached, screw the levelers in so the plastic glides extend slightly further than the bottom of the levelers.

### Level the Cabinet

1. Tip the assembled cabinet upright.
2. Check that the cabinet assembly is square and tighten all screws.
3. Detach the shelf support bar ③① From the bottom of the side panels and set the 1/4-20 x 5/8" button head screws ② aside.
4. Attach cleats ②.

**Note:** To keep the cabinet square, maintain the same distance between both side panels at the front of the cabinet as it already exists at the rear of the cabinet.

- a. Attach one cleat ② to each side panel using the screws from step 3 in the slotted hole of each bracket into the insert nuts. Depending on available space, one or two screws may be used.
  - b. Anchor the cleats to the floor using appropriate fasteners (not supplied).
5. Apply one 0.35 X 0.6 Vinyl cap ③③ to each post of all four levelers.

### Install Shelf

1. Attach the fixed height shelf ③⑤ at the required height into the insert nuts in the side panels using two 1/4-20 x 5/8" button head screws ② at the end of each shelf support bar ③①.
2. Attach the remaining shelf support bar ③① removed in Step 3 above.
  - a. Align the bar ③① With the insert nuts in the side panels underneath the middle of the shelf.
  - b. Attach the both ends of the bar to the insert nuts in the side panels using two 1/4-20 x 5/8" button head screws ②.

### Final Cabinet Adjustment

1. Slide the assembled Cabinet to the intended location.
2. Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
3. Install the remaining shelves into the lower levels.

### Final Cabinet Bank Assembly

1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the cabinet doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.

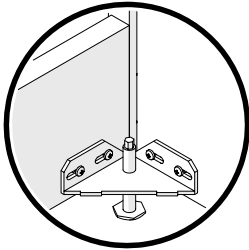
## Assembly - Group 6 Cabinet 62

### Assembly

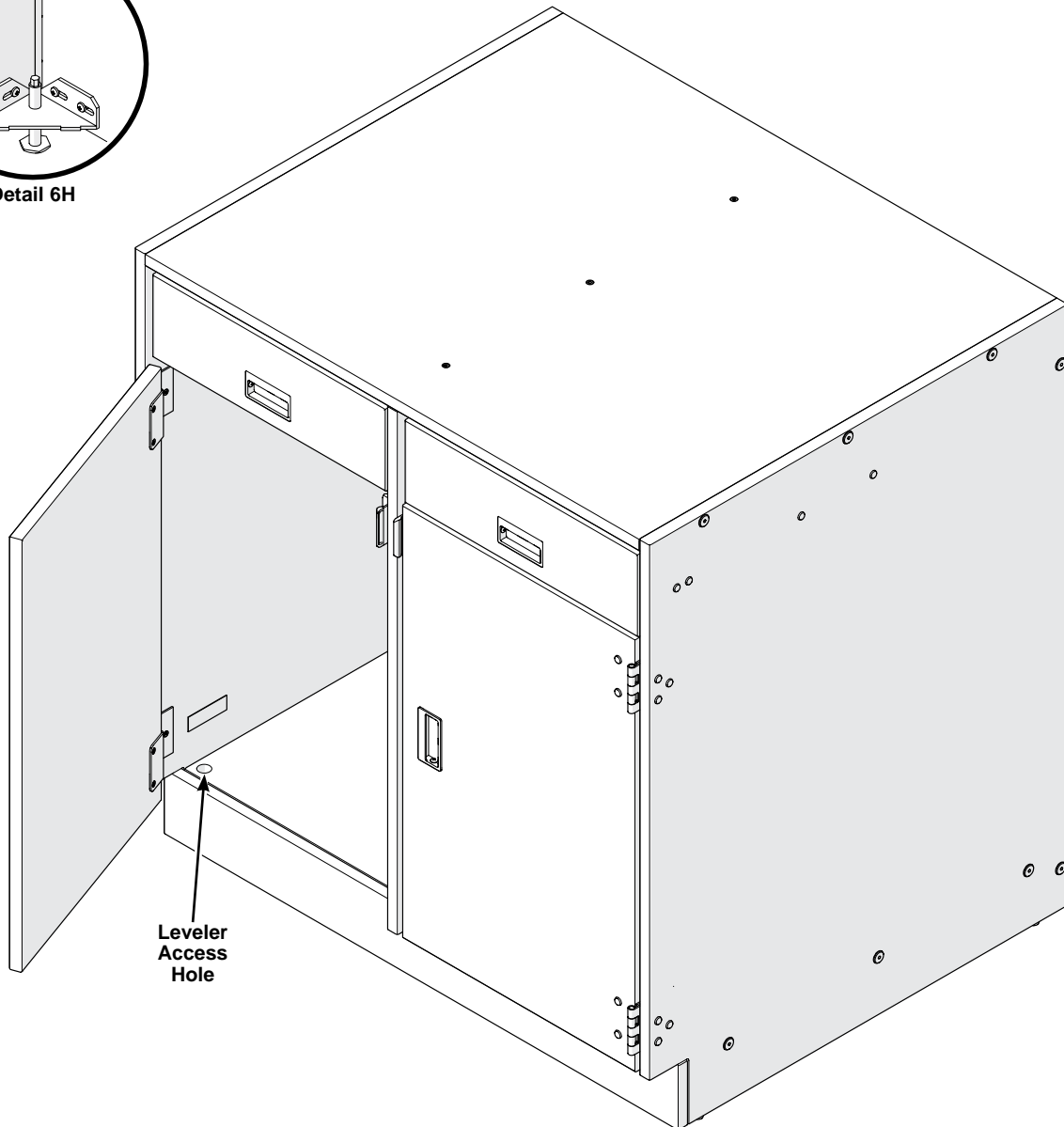
**Note:** Cabinet 62 ships fully assembled.

### Final Cabinet Adjustment

1. Slide the cabinet to the intended location.
2. Check that the cabinet assembly is square and tighten all screws.
3. **See Detail 6H.** Level the cabinet using a 1/4" socket or wrench on the leveler brackets, see the "Leveling Cabinets" procedures.
4. Snap the plugs in the round leveler access holes in the bottom shelves.



Detail 6H



### Final Cabinet Bank Assembly

1. Assemble, position and level any remaining cabinets.
2. After all cabinets in the bank have been positioned:
  - a. Attach the cabinet doors, see the "Attach Doors" procedures.
  - b. Secure the cabinets, see the "Secure Cabinets" procedures.

## Level Cabinets

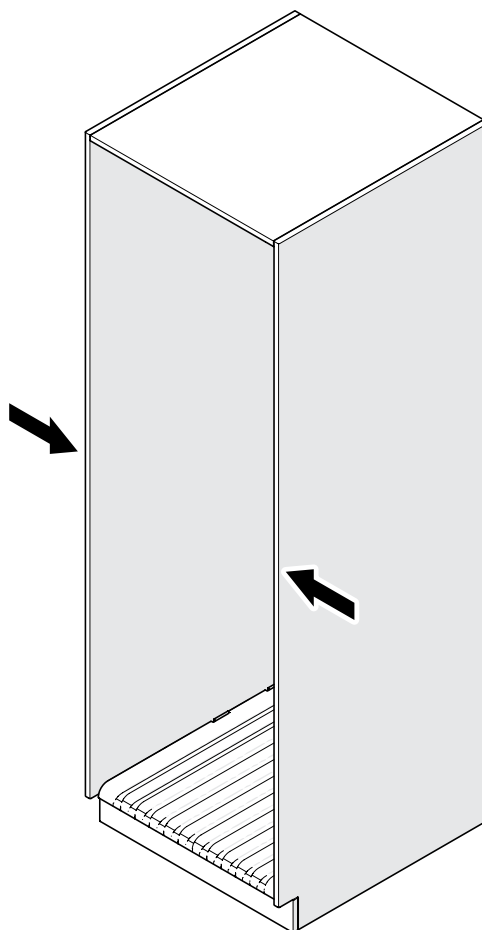
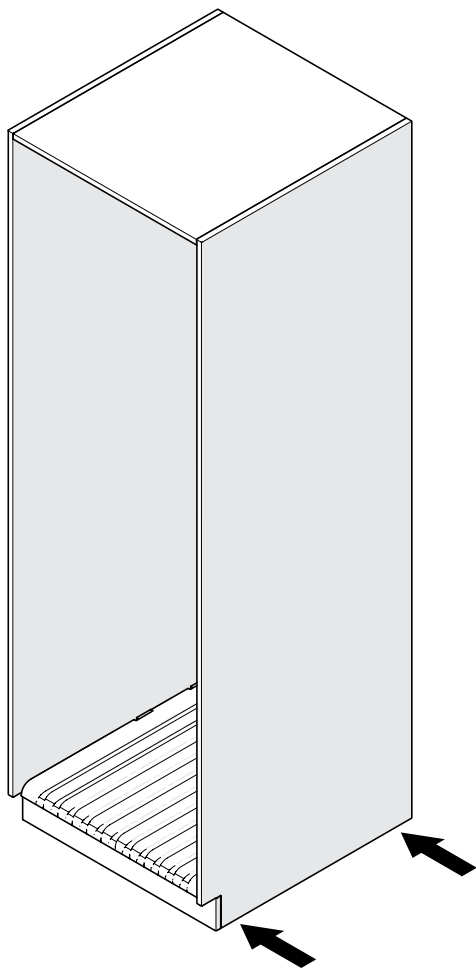
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**Note:** For proper door alignment, follow these instructions carefully.

Do not try to level the cabinets to match soffits.

Do not try to plumb the cabinet to match adjacent walls.

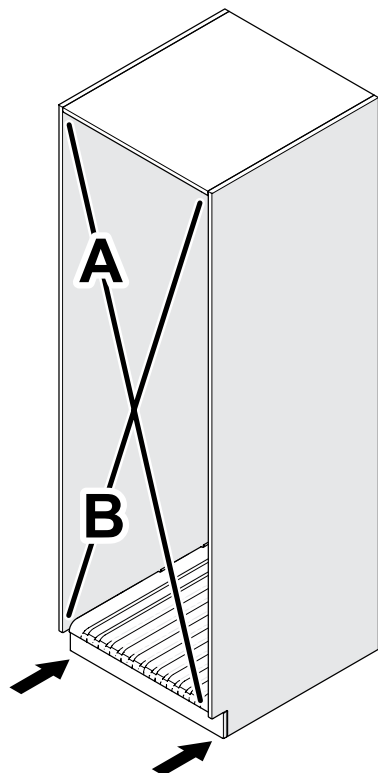
1. Move the assembled cabinets to be within a few inches of their final location according to the layout drawings and adjust them to be level with each other.
2.
  - a. Check the level of the entire floor where the cabinets will be installed.
  - b. Determine the highest point of the floor in that area.
  - c. The cabinet installed at this highest location will be the reference for all other cabinets to be leveled against.
3. Adjust the levelers on one side until the front edges of the cabinet side panels are plumb (side-to-side).



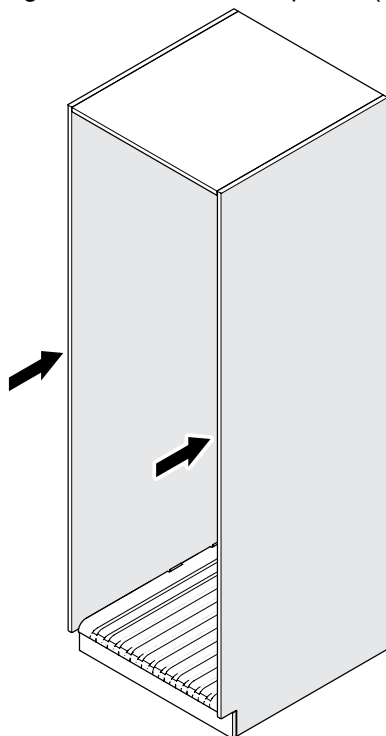
## *Level Cabinets (continued)*

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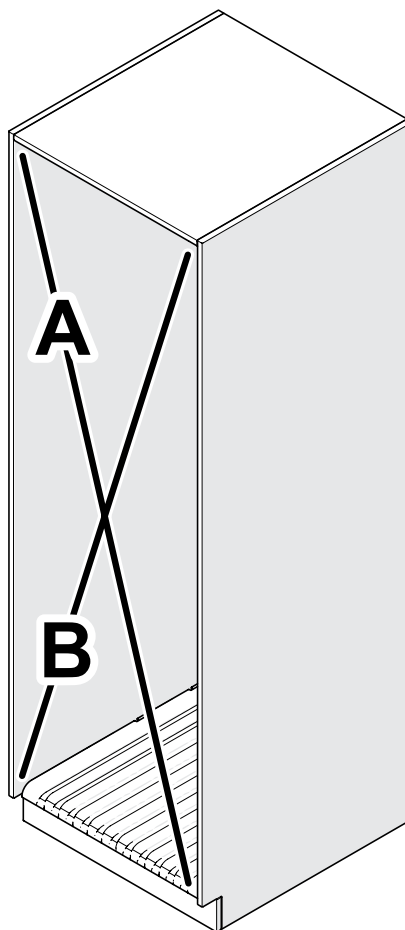
4. Measure A and B with a tape and adjust the front levelers until  $A=B$  (+1/32 inch).



5. Adjust both front levelers equally until the front edges of the cabinet are plumb (front-to-back).



6. Recheck that  $A=B$ . Readjust if necessary (repeat steps 3-5).



7. Adjust the levelers on the adjacent cabinet so it will line up with the top of the highest cabinet.  
8. Repeat steps 3-7 for the remaining cabinets.

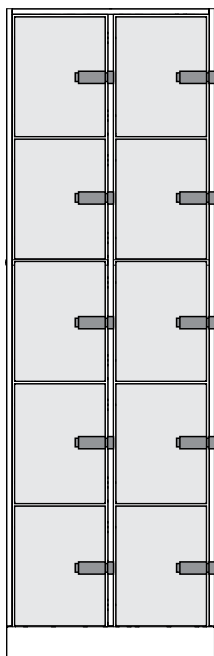
## Attach Doors - Description

---

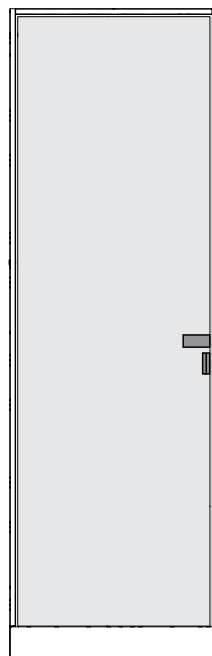
### Door Identification

Wood and grille door variations are available for the cabinet models.

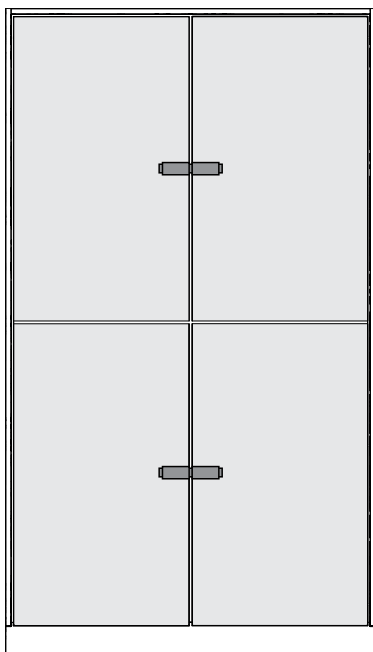
To attach the doors, refer to the appropriate instructions on the following pages.  
Skip this procedure for cabinets without doors.



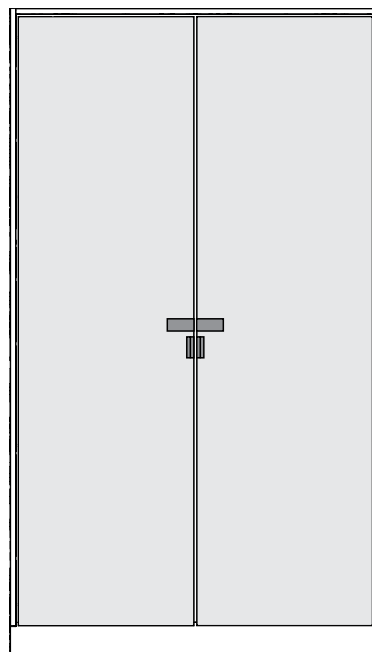
**Individual Compartment Doors**  
(Page 30)



**Single Full-Length Door**  
(Page 32)



**Double Compartment Doors**  
(Page 34)



**Double Full-Length Doors**  
(Page 36)

## Attach Doors - AcoustiCabinet Doors Only



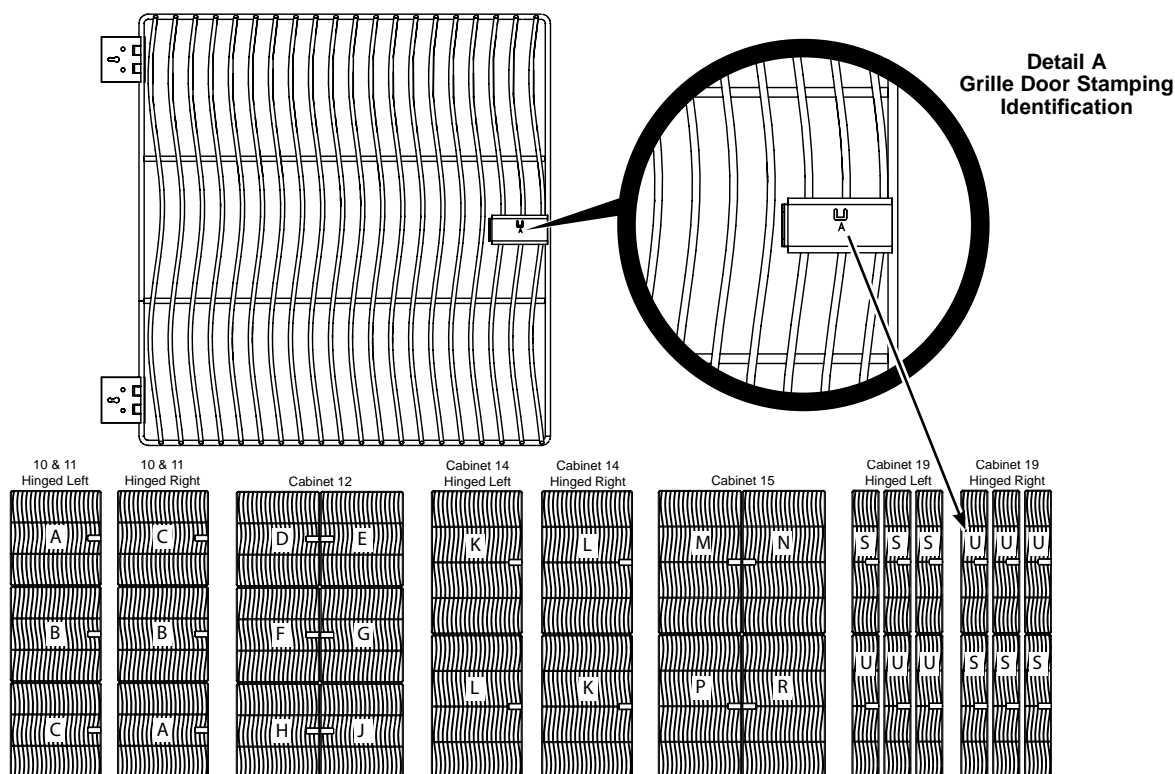
**This applies to AcoustiCabinets® only.**

### AcoustiCabinet Compartment Door Configurations

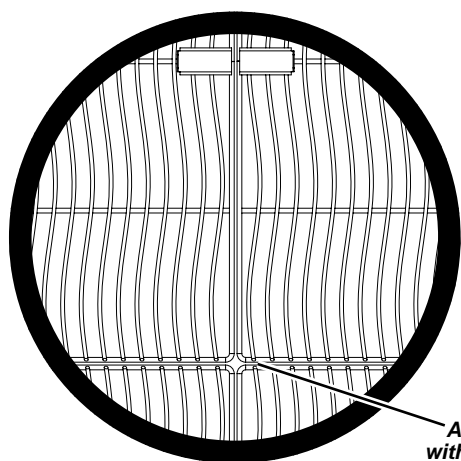
**Note:** This only applies to AcoustiCabinets 10, 11, 12, 14, 15 and 19.

To identify the compartment door configuration:

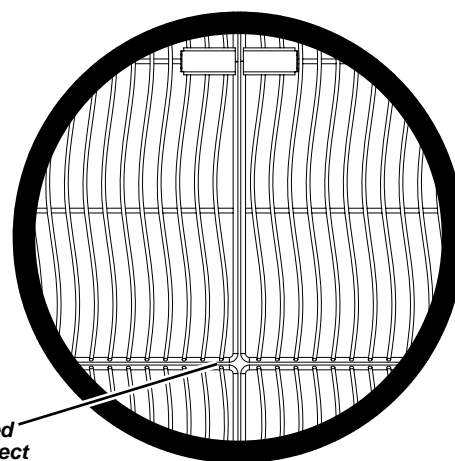
1. **See Detail A.** To ensure proper grille door placement, some grill doors are stamped with a letter on the lock housing as shown below.
2. **See Detail B.** Follow the diagram below for correct grille door placement.
3. To attach the doors, see the following pages.



**Detail B  
Stamped Grille  
Door Placement**



*Aligned  
with correct  
placement*



*Misaligned  
with incorrect  
placement*



## Attach Doors - Grille Doors

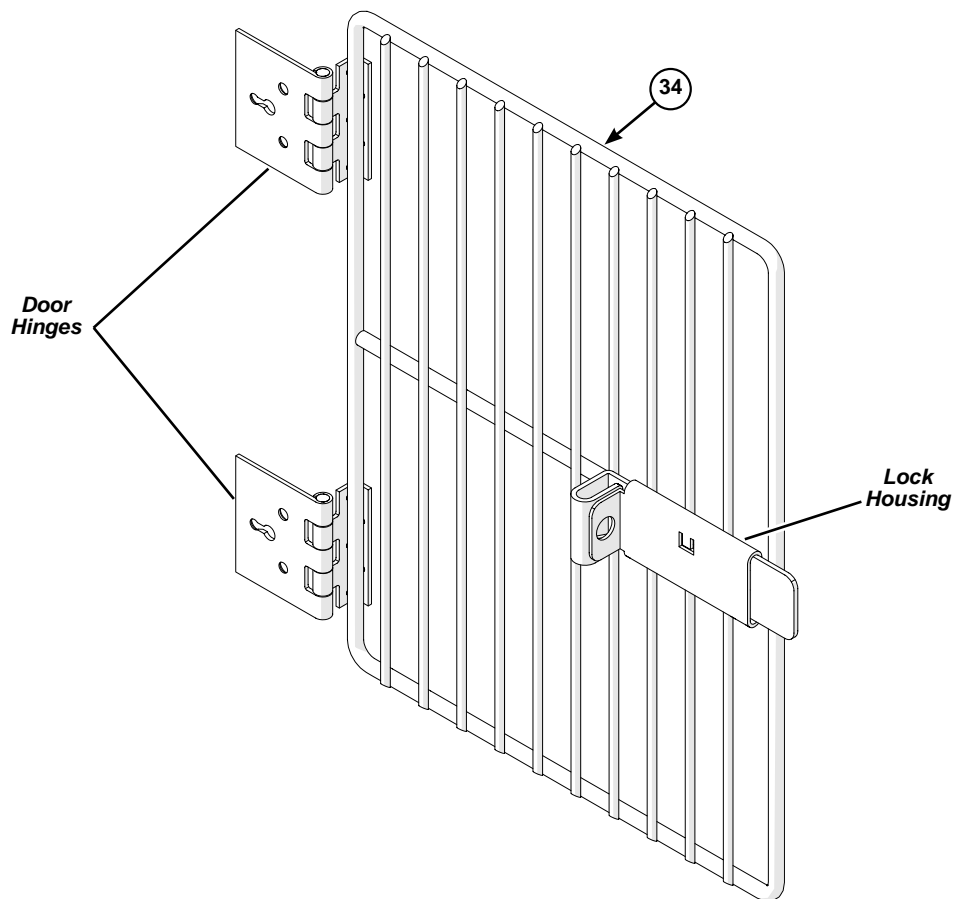


***This applies to grille doors only.***

### ***Grille Doors***

Hinges and lock housings are already welded to grille doors ③④.

They only need to be attached to wood doors ③⑤.



## Attach Doors - Individual Compartment Doors



**This procedure details individual compartment doors only, refer to page 27.**

**A left side hinge is shown. For a right side hinge, the images would be mirrored.**

This step uses Fasteners:



8-32 Insert  
Nut ⑤



3/4" Flat Head  
Screw ③⑥



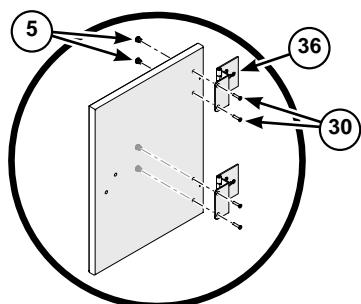
#7 x 5/8" Flat  
Head Screw ③⑦



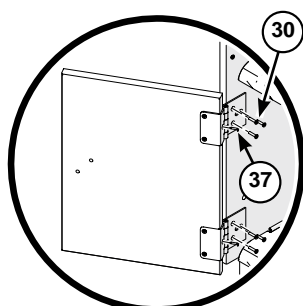
10-24 Hex  
Cap Nut ③⑨



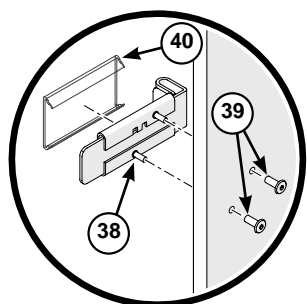
#8-32 x 1"  
Machine Screw ④③



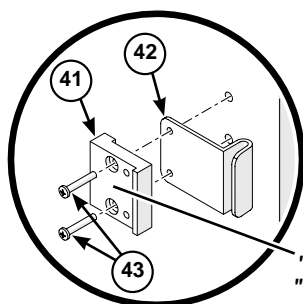
Detail A



Detail B

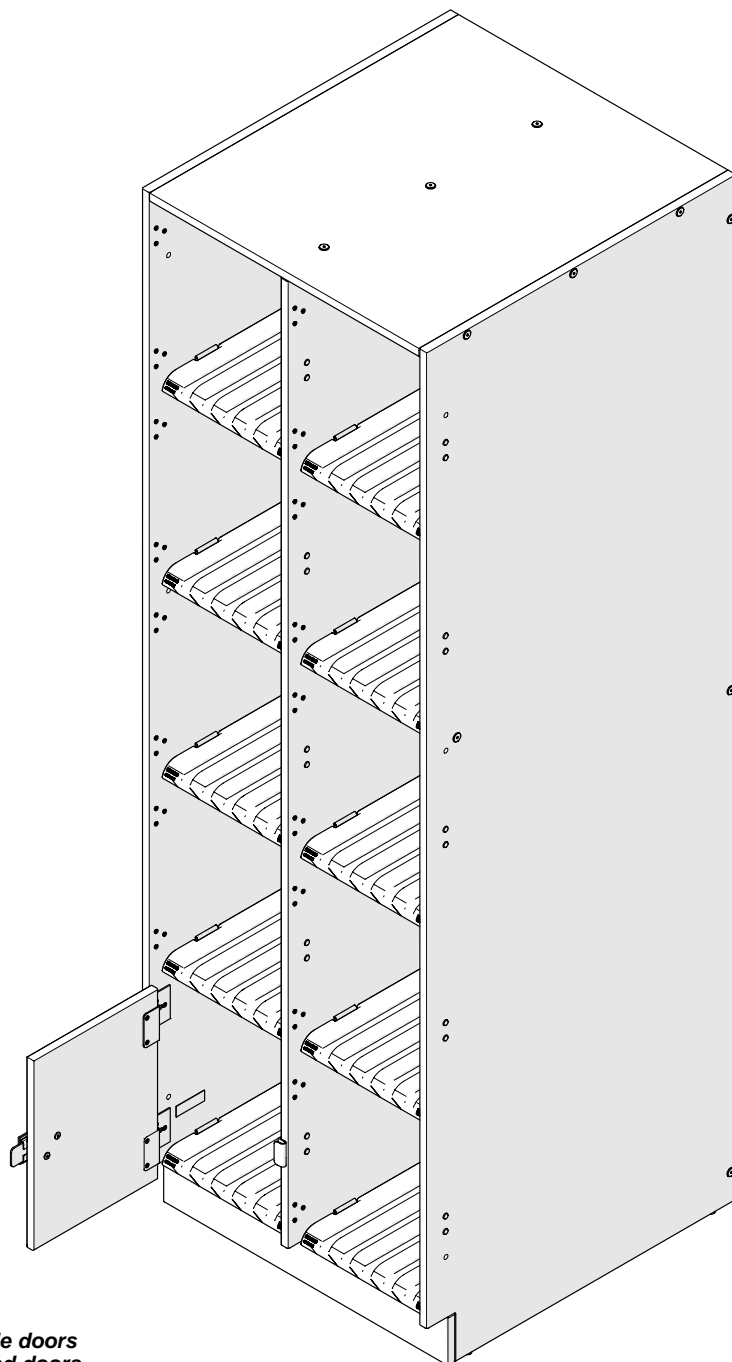


Detail C



Detail D

"G" facing outward for grille doors  
"W" facing outward for wood doors



Wood Door shown.

## Attach Doors - Individual Compartment Doors (continued)

### **Individual Compartment Doors**

**Note:** The cabinet must be properly leveled before attaching doors or they will not fit properly.

**Note:** For easiest installation, start with the lowest doors and work upward.

To attach each compartment door:

1. Install door hinges.  
**For wood doors ⑤ only (separate procedure for grille door)**
  - a. **See detail a.** Install door hinge mounts.  
In the front face of the door, use a plastic mallet to pound 8-32 insert nuts ⑤ into the holes (two per hinge) located toward the rear edge.
  - b. Attach one hinge ⑥ to the inside (back face) of each wood door using 3/4" flat head screws ⑩ into each set of installed insert nuts.
2. Attach door.
  - a. **See Detail B.** Hold the door in position on the cabinet. Attach each hinge to the side or center panel using 3/4" flat head screws ⑩ into each set of installed insert nuts.
  - b. **For wood doors ⑤ only.** Secure each hinge to the back edge of the door using one #7 x 5/8 flat head screw ⑦.
3. Attach lock housing.  
**For wood doors ⑤ only (separate procedure for grille door)**
  - a. **See Detail C.** Insert the lock housing ③⑧ posts into the two holes in the front face of the door.
  - b. Insert 10-24 hex cap nuts ③⑨ into the holes from the back face of the door and tighten them onto the lock housing posts.
  - c. Snap a card holder ④⑩ onto the lock housing.
4. Attach door striker.
  - a. **See Detail D.** Attach a strike plate ④① (See orientation below) and a door stop ④② to the side or center panel using two #8-32 x 1" machine screws ④③ into each set of installed insert nuts.
  - b. **Strike plate ④① Orientation.**  
Grille Door "G" faces outward  
Wood Door "W" faces outward.
5. Cabinet leveling may require slight adjustment to ensure proper door fit.

## Attach Doors - Single Full-Length Doors



**This procedure details single full-length doors only, refer to page 27.**

**A left side hinge is shown. For a right side hinge, the images would be mirrored.**

This step uses Fasteners:



8-32 Insert  
Nut (5)



#8 x 5/8" Pan  
Head Screw (14)



3/4" Flat Head  
Screw (30)



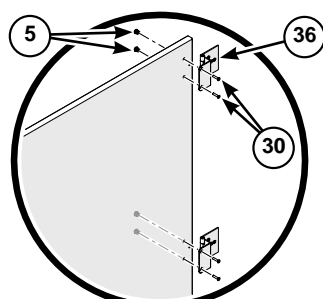
#7 x 5/8" Flat  
Head Screw (37)



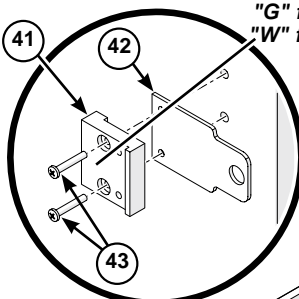
10-24 Hex  
Cap Nut (39)



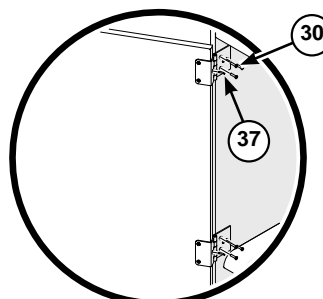
#8-32 x 1"  
Machine Screw (43)



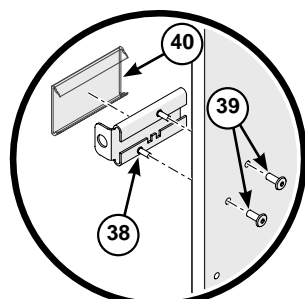
Detail A



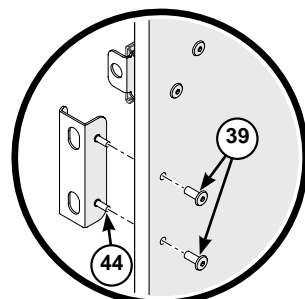
Detail E



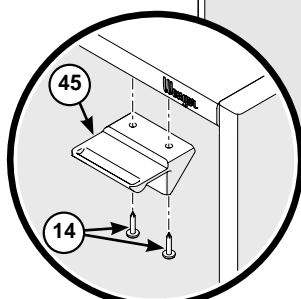
Detail B



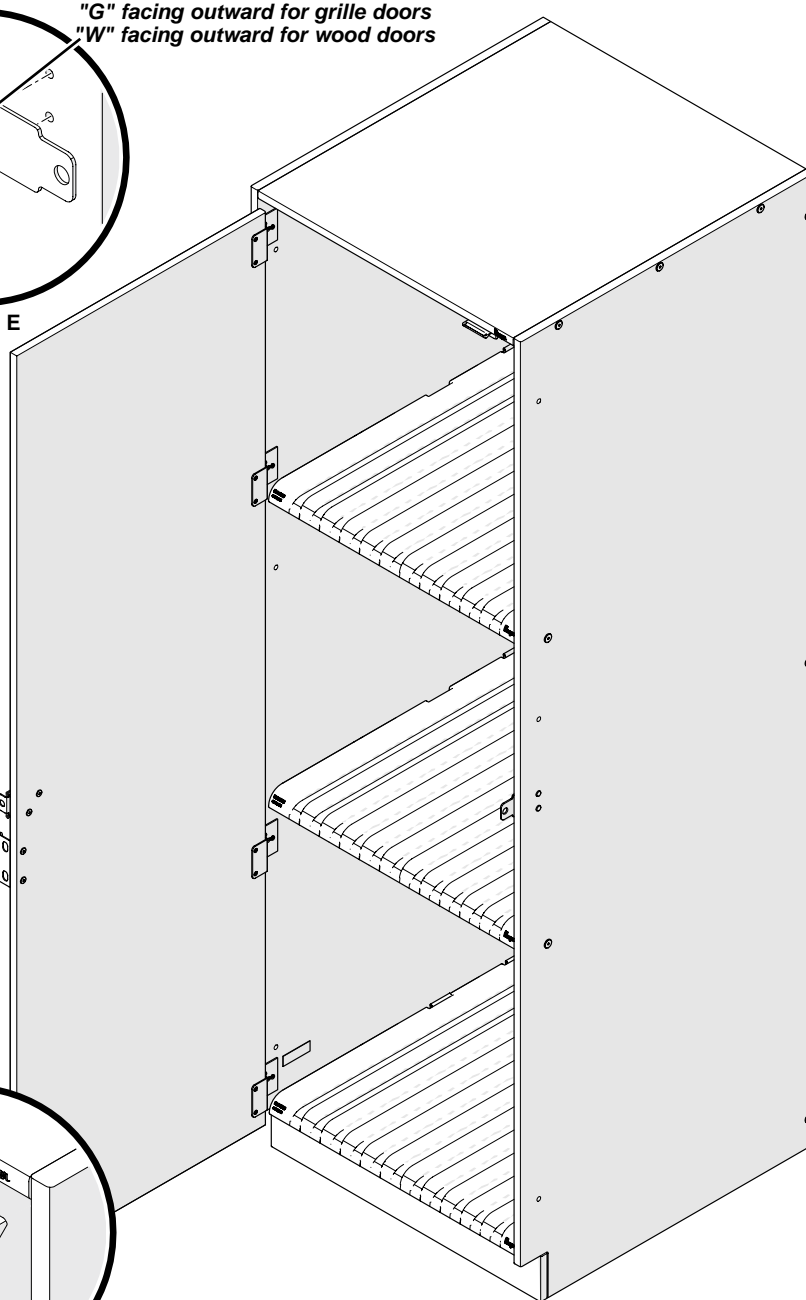
Detail C



Detail D



Detail F



Wood Door shown.

## *Attach Doors - Single Full-Length Doors (continued)*

---

### **Single Full-Length Doors**

**Note:** The cabinet must be properly leveled before attaching doors or they will not fit properly.

**Note:** For easiest installation, start with the lowest doors and work upward.

To attach the doors:

1. Install door hinges.

**For wood doors ③⑤ only (separate procedure for grille door)**

- a. **See Detail A.** Install door hinge mounts.

In the front face of both doors, use a plastic mallet to pound 8-32 insert nuts ⑤ into both sets of holes (two per hinge) located toward the rear edge.

- b. Attach two hinges ③⑥ to the inside (back face) of both wood doors using 3/4" flat head screws ③⑩ into each set of installed insert nuts.

2. Attach door.

- a. **See Detail B.** Hold the door in position on the cabinet.

Attach each hinge to the side panel using 3/4" flat head screws ③⑩ into each set of installed insert nuts.

To help hold the door in place, insert the first screw into the rear-most hole in the side panel.

Place the slotted hole of the hinge onto the screw and rotate it to align the other two holes.

Tighten all three screws.

- b. **For wood doors ③⑤ only.** Secure each hinge to the back edge of the door using one #7 x 5/8 flat head screw ③⑦.

3. Attach lock housing.

**For wood doors ③⑤ only (separate procedure for grille door)**

- a. **See Detail C.** Insert the lock housing ③⑧ posts into the two holes in the front face of the door.

- b. Insert 10-24 hex cap nuts ③⑨ into the holes from the back face of the door and tighten them onto the lock housing posts.

- c. Snap a card holder ④⑩ onto the lock housing.

4. Attach door handle.

**For wood doors ③⑤ only (grille doors do not have handles)**

- a. **See Detail D.** Insert the door handle ④④ posts into the two holes in the front face of the door.

- b. Insert 10-24 hex cap nuts ③⑨ into the holes from the back face of the door and tighten them onto the door handle posts.

5. Attach door striker.

- a. **See Detail E.** Attach a strike plate ④① (See orientation below) and a door stop ④② to the side panel using two #8-32 x 1" machine screws ④③ into each set of installed insert nuts.

- b. **Strike plate ③⑤ orientation.**

Grille Door "G" faces outward

Wood Door "W" faces outward.

6. Attach door catch.

- a. **See Detail F.** Attach a door catch ④⑤ to the underside of the top panel, at the handle side of the door, using two #8 x 5/8" pan head screws ④④.

7. Cabinet leveling may require slight adjustment to ensure proper door fit.

## Attach Doors - Double Compartment Doors



**This procedure details double compartment doors only, refer to page 27.**

This step uses Fasteners:



8-32 Insert  
Nut (5)



3/4" Flat Head  
Screw (30)



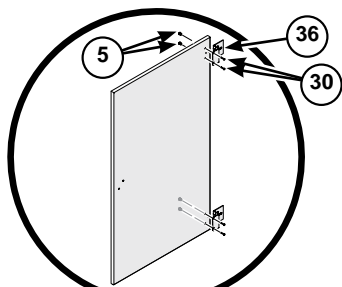
#7 x 5/8" Flat  
Head Screw (37)



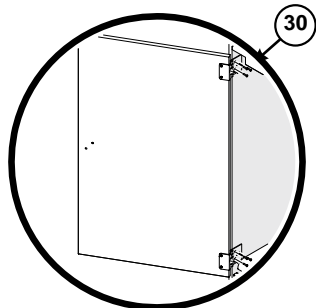
10-24 Hex  
Cap Nut (39)



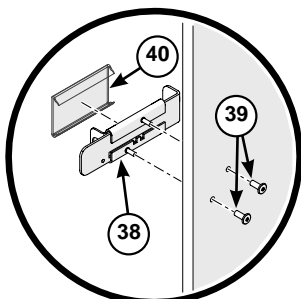
#8-32 x 1"  
Machine Screw (43)



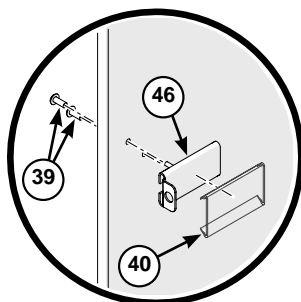
Detail A



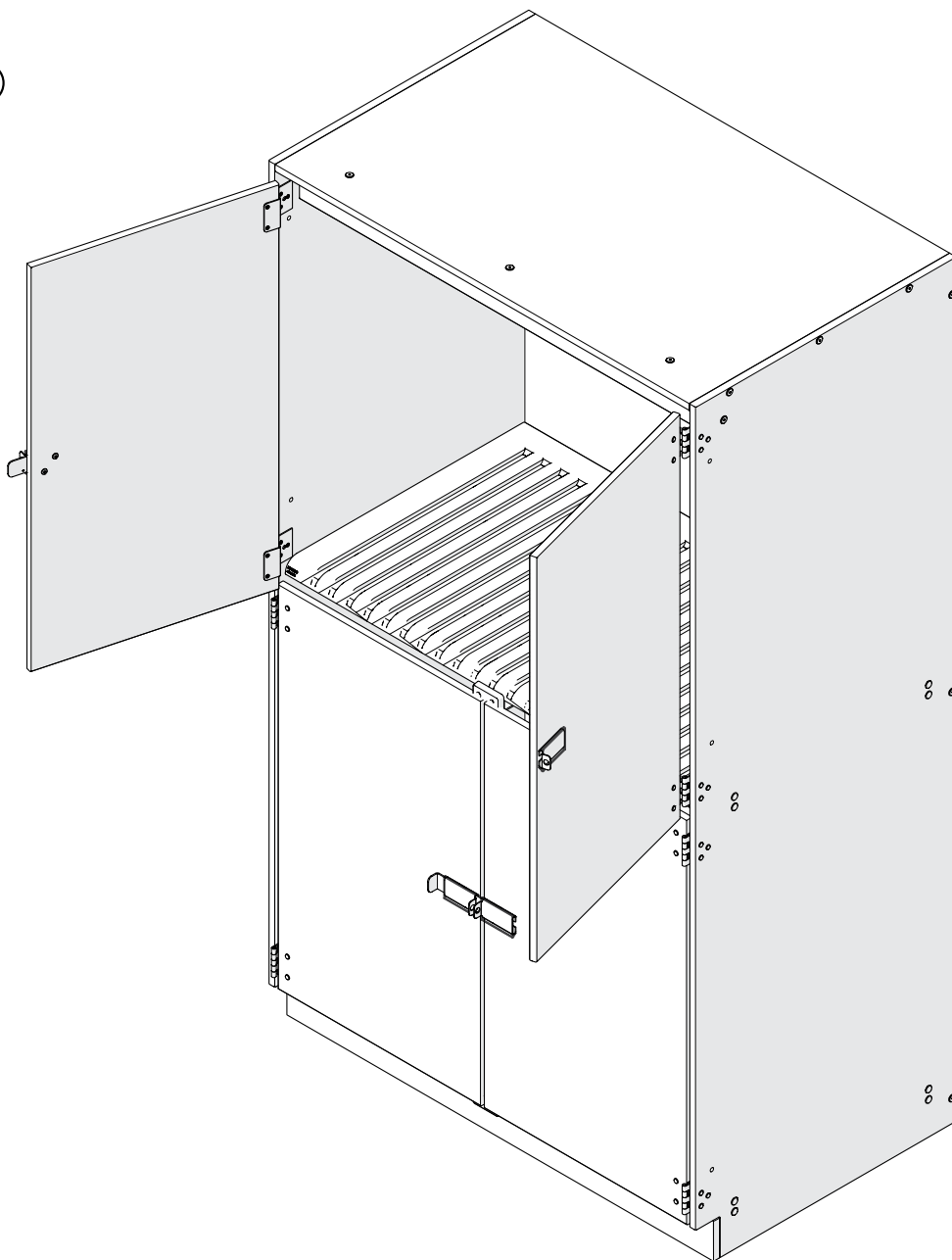
Detail B



Detail C1



Detail C2



*Wood Door shown.*

## *Attach Doors - Double Compartment Doors (continued)*

---

### **Double Compartment Doors**

**Note:** The cabinet must be properly leveled before attaching doors or they will not fit properly.

**Note:** For easiest installation, start with the lowest doors and work upward.

To attach the doors:

1. Install door hinges.  
**For wood doors ③⑤ only (separate procedure for grille door)**
  - a. **See Detail A.** Install door hinge mounts.  
If the cabinet has two double compartments, each door will have three hinges  
If the cabinet has three double compartments, each door will have two hinges.  
  
In the front face of both doors, use a plastic mallet to pound 8-32 insert nuts ⑤ into the sets of holes (two per hinge) located toward the rear edge.
  - b. Attach the hinges ③⑥ to the inside (back face) of the doors using 3/4" flat head screws ⑩ into each set of installed insert nuts.
2. Attach doors to both sides of each compartment.
  - a. **See Detail B.** Hold the left side door in position on the cabinet.  
Attach each hinge to the side panel using 3/4" flat head screws ⑩ into each set of installed insert nuts.  
  
To help hold the door in place, insert the first screw into the rear-most hole in the side panel.  
Place the slotted hole of the hinge onto the screw and rotate it to align the other two holes.  
Tighten all three screws.
  - b. Repeat for the right side door.
  - c. **For wood doors ③⑤ only.** Secure each hinge to the back edge of the door using one #7 x 5/8 flat head screw ⑦.
3. Attach a lock housing and card holder housing to each compartment.  
**For wood doors ③⑤ only (separate procedure for grille door)**
  - a. **See Detail C1.** Insert the lock housing ③⑧ posts into the two holes in the front face of the left or right door.
  - b. **See Detail C2.** Insert the card holder housing ④⑥ posts into the two holes in the front face of the opposite door.
  - c. Insert 10-24 hex cap nuts ③⑨ into the holes from the back face of the doors and tighten them onto all of the housing posts.
  - d. Snap a card holder ④⑩ onto both housings.
  - e. Closing the doors and latching the slide lock aligns holes in the housings for installing a padlock.
4. Cabinet leveling may require slight adjustment to ensure proper door fit.

## Attach Doors - Double Full-Length Doors



**This procedure details double full-length doors only, refer to page 27.**

This step uses Fasteners:



8-32 Insert  
Nut ⑤



#8 x 5/8" Pan  
Head Screw ⑭



3/4" Flat Head  
Screw ③①



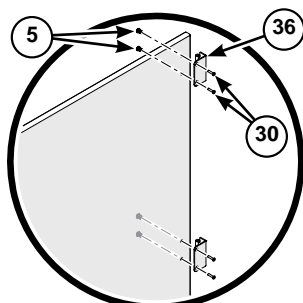
#7 x 5/8" Flat  
Head Screw ③⑦



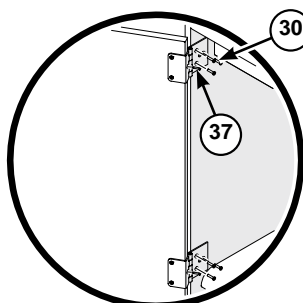
10-24 Hex  
Cap Nut ③⑨



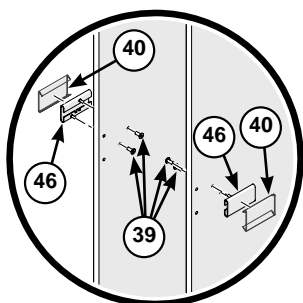
#8-32 x 1"  
Machine Screw ④③



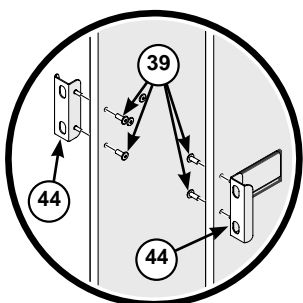
Detail A



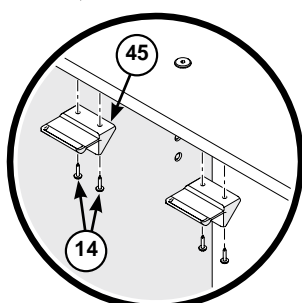
Detail B



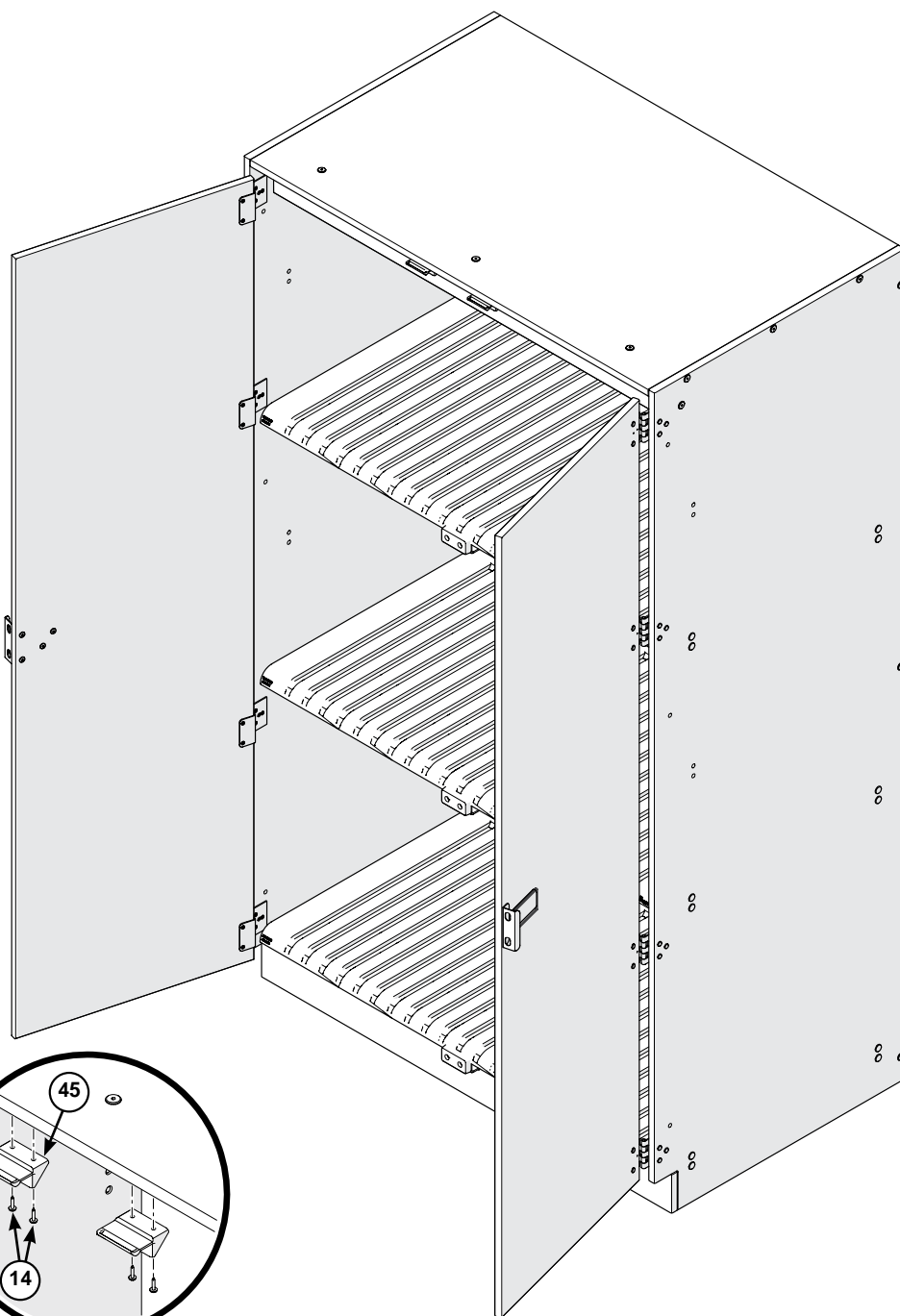
Detail C



Detail D



Detail E



Wood Door shown.



## *Attach Doors - Double Full-Length Doors (continued)*

---

### **Double Full-Length Doors**

**Note:** The cabinet must be properly leveled before attaching doors or they will not fit properly.

**Note:** For easiest installation, start with the lowest doors and work upward.

To attach the doors:

1. Install door hinges.

**For wood doors ⑤ only (separate procedure for grille door).**

- a. **See Detail A.** Install door hinge mounts.

In the front face of both doors, use a plastic mallet to pound 8-32 insert nuts ⑤ into the four sets of holes (two per hinge) located toward the rear edge.

- b. Attach four hinges ⑥ to the inside (back face) of both wood doors using 3/4" flat head screws ⑩ into each set of installed insert nuts.

2. Attach doors to both sides of each compartment.

- a. **See Detail B.** Hold the left side door in position on the cabinet.

Attach each hinge to the side panel using 3/4" flat head screws ⑩ into each set of installed insert nuts.

To help hold the door in place, insert the first screw into the rear-most hole in the side panel.

Place the slotted hole of the hinge onto the screw and rotate it to align the other two holes.

Tighten all three screws.

- b. Repeat for the right side door.

- c. **For wood doors ⑤ only.** Secure each hinge to the back edge of the door using one #7 x 5/8 flat head screw ⑦.

3. Attach lock housings.

**For wood doors ⑤ only (separate procedure for grille door)**

- a. **See Detail C.** Insert the card holder housing ④⑥ posts into the two holes in the front face of both doors.

- b. Insert 10-24 hex cap nuts ③⑨ into the holes from the back face of the doors and tighten them onto the lock housing posts.

- c. Snap a card holder ④⑦ onto both lock housings.

4. Attach door handles.

**For wood doors ⑤ only (grille doors do not have handles)**

- a. **See Detail D.** Insert the door handle ④④ posts into the two holes in the front face of both doors.

- b. Insert 10-24 hex cap nuts ③⑨ into the holes from the back face of the doors and tighten them onto the door handle posts.

- c. Closing the doors aligns holes in the handles for installing a padlock.

5. Attach door catches.

- a. **See Detail E.** Attach door catches ④⑤ to the underside of the top panel at the handle side of the door using two #8 x 5/8" pan head screws ④⑩.

6. Cabinet leveling may require slight adjustment to ensure proper door fit.

## Attach Backing - AcoustiCabinets Only

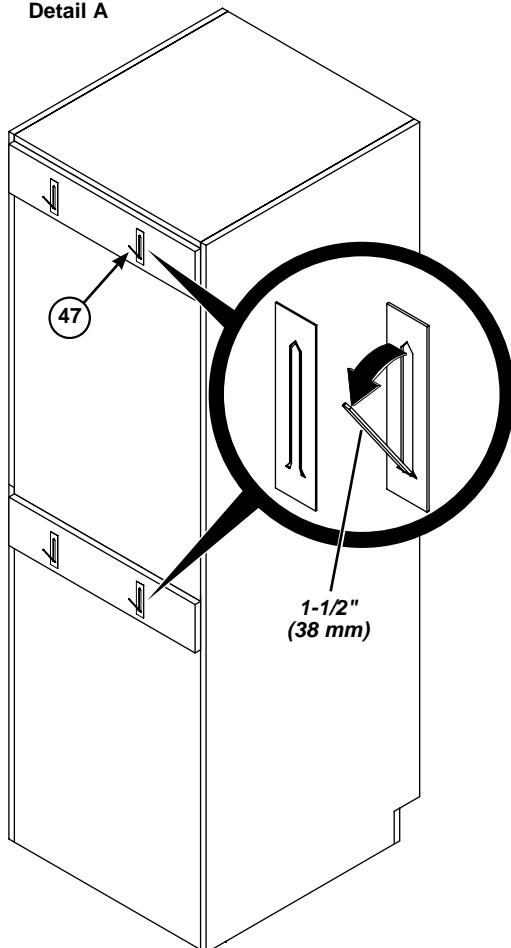


**This applies to AcoustiCabinets® only.**

To attach the sound absorptive material to the back of the AcoustiCabinets:

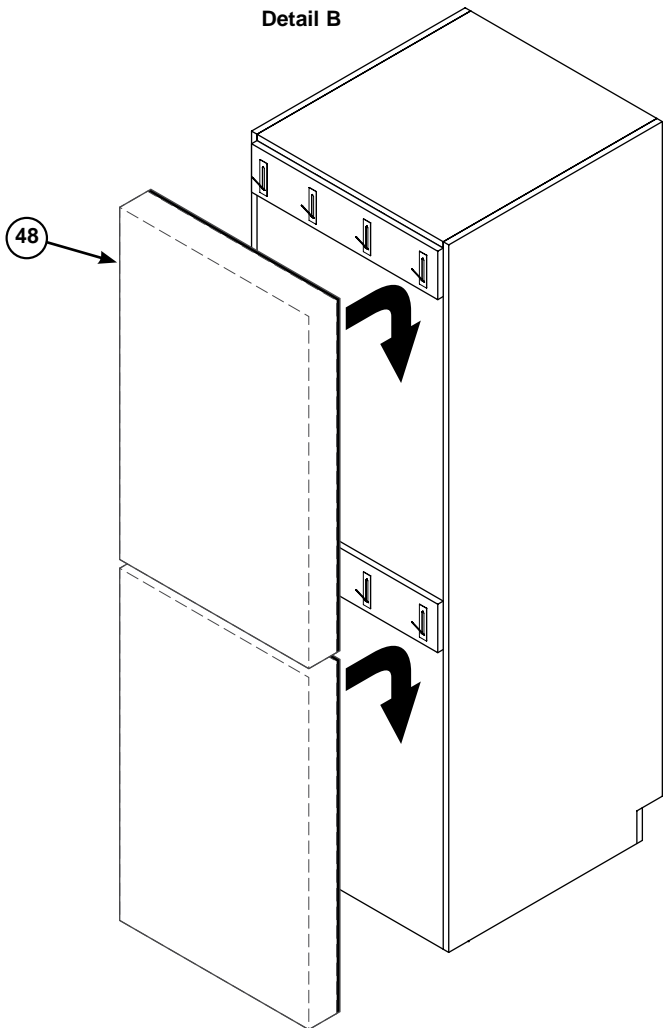
1. **See Detail A.** Flip-Stix® 47 are used to hold the sound absorptive material in place. The Flip-Stix® are already attached to the rear stretcher panels on the back of all AcoustiCabinets. The quantity of Flip-Stix® installed on the cabinet will vary by cabinet design. On each Flip-Stix®, pull the top tab out approximately 1-1/2" (38 mm).
2. Unroll and "fluff-up" the sound absorptive material.
3. **See Detail B.** Attach the sound absorptive material 48 to the back of the cabinet by placing it over all of the Flip-Stix® approximately 2" (51 mm) above the desired final location with the opening in the plastic barrier facing toward the top of the cabinet.
4. Pull down on the sound absorptive material to secure it into place on the Flip-Stix® and pulling it level. The Flip-Stix® are intended to penetrate the inside plastic and the insulation only, not the outside plastic barrier.

Detail A



1-1/2"  
(38 mm)

Detail B



*Flip-Stix® placement may vary by cabinet.*

# Secure Cabinets - UltraStor



**This procedure is for securing UltraStor Cabinets, for AcoustiCabinets refer to page 43.  
For standard installations only, contact Wenger for seismic installation instructions.**

## Connect Cabinets Together

1. Depending on cabinet height, there are two to three holes at the front of the side panels for securing the cabinets together.

See Detail A1. These holes are positioned to align the fronts of the cabinets to be flush.

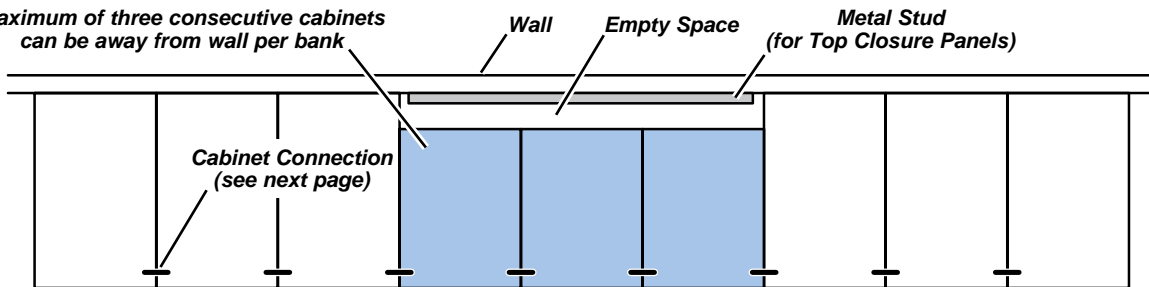
### ⚠ IMPORTANT

**A maximum of three consecutive cabinets can be away from the wall per bank.**

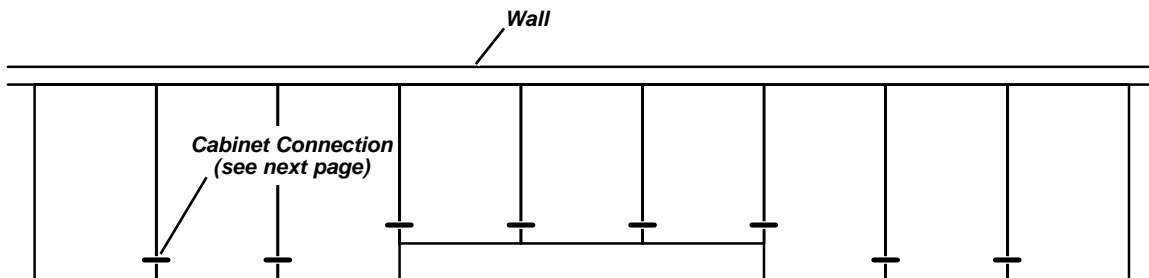
See Detail A2. If different depth cabinets are to be aligned at the back, new 3/8" (10 mm) holes will need to be drilled. Use the holes in the shallowest cabinet as the template for the adjacent cabinet.

2. Top closure panels will be added to close off any empty space behind cabinets not flush with the back wall. See the "Closure Panel Installation" procedure.

*Maximum of three consecutive cabinets can be away from wall per bank*



**Detail A1 - Top View of Wall Mounted Cabinets Flush Front**

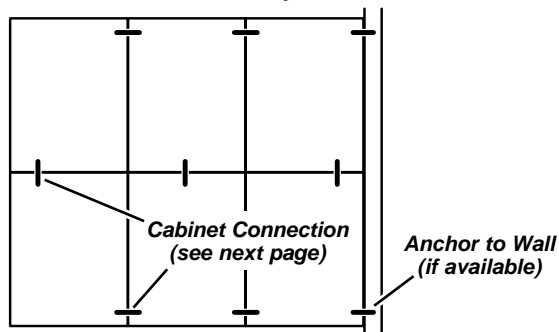


**Detail A2 - Top View of Wall Mounted Cabinets Flush Back**

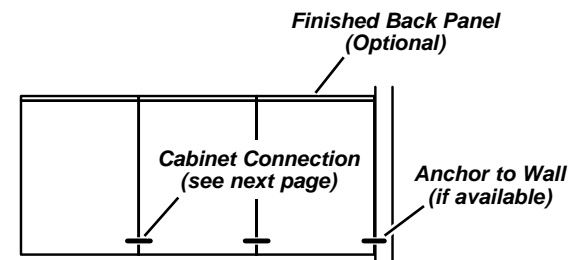
3. Depending on cabinet height, there are two to three holes at the front of the side panels for securing the cabinets together.

See Detail A3. For back-to-back island or peninsula configurations, adjacent cabinet backs must also be secured together as shown on pages 42 and 46.

See Detail A4. For single island or peninsula configurations, an optional finished back panel kit is available. See the assembly instructions included with the kit.



**Detail A3 - Top View of Back-to-Back Island or Peninsula Mounted Cabinets**



**Detail A4 - Top View of Single Island or Peninsula Mounted Cabinets**

## Secure Cabinets - UltraStor (continued)

### Connect Cabinets Together (continued)

3. Install trim strips. **See Detail B1 and B2.**

- Using the attached adhesive tape, stick two trim strips ④⑨ to the side panel of one cabinet.
- Attach the longer strip to be 1/8" (3 mm) back from the front edge and flush with the top of the cabinet.
- Attach the shorter strip to be 1/8" (3 mm) back from the front edge of the bottom front stretcher panel ④⑨ and flush with the floor.

This will hold the strips in position until the cabinets are connected together.

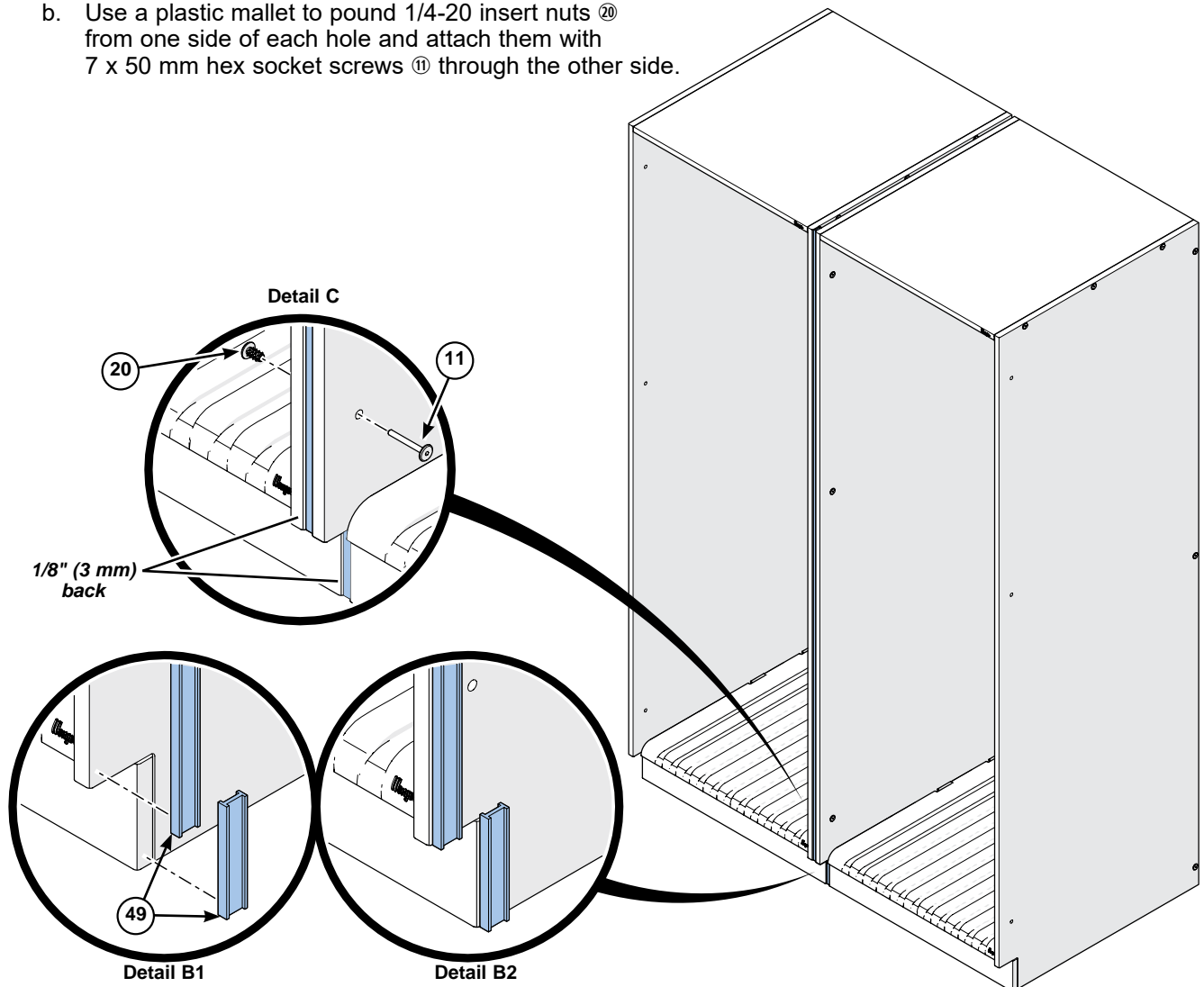
4. Connect adjoining cabinets. **See Detail C.**

Depending on cabinet height, there are two to three holes in the side panels for securing the cabinets together.

**Note:** These holes are positioned to align the fronts of the cabinets.

If different depth cabinets will be aligned at the back, new holes will need to be drilled (see previous page).

- See Detail B.** Position the adjoining cabinet to align these holes and to fit against the trim strips of the previous cabinet.
- Use a plastic mallet to pound 1/4-20 insert nuts ②⑩ from one side of each hole and attach them with 7 x 50 mm hex socket screws ⑪ through the other side.



*Cabinet doors and shelves are not shown for clarity.*

## Secure Cabinets - UltraStor (continued)

### ⚠ CAUTION

*In addition to the sides of the cabinets being secured, the cabinet backs must also be attached to either a back wall, to adjacent cabinets in an island formation or to the floor.*

### ⚠ CAUTION

*Inferior or improperly installed fasteners could cause the cabinets to tip over.*



**Cabinets must either be secured to a back wall or back-to-back with adjacent cabinets. For cabinets not flush with the back wall, see "Closure Panel Installation" on page 50. See below for securing to a back wall, see the next page for securing back-to-back.**

### Secure Cabinets to Back Wall

Because materials and construction of walls can vary, fasteners for attaching the cabinets to the structure are not provided. The installer must choose the appropriate fastener and follow the manufacturer's instructions. See "Cabinet Fastener Guidelines" for more information.

**Note:** At least every 5th cabinet must be secured to the back wall.

**Note:** Make sure all the cabinets are secured together before attaching them to the back wall.

**1. See Detail D.**

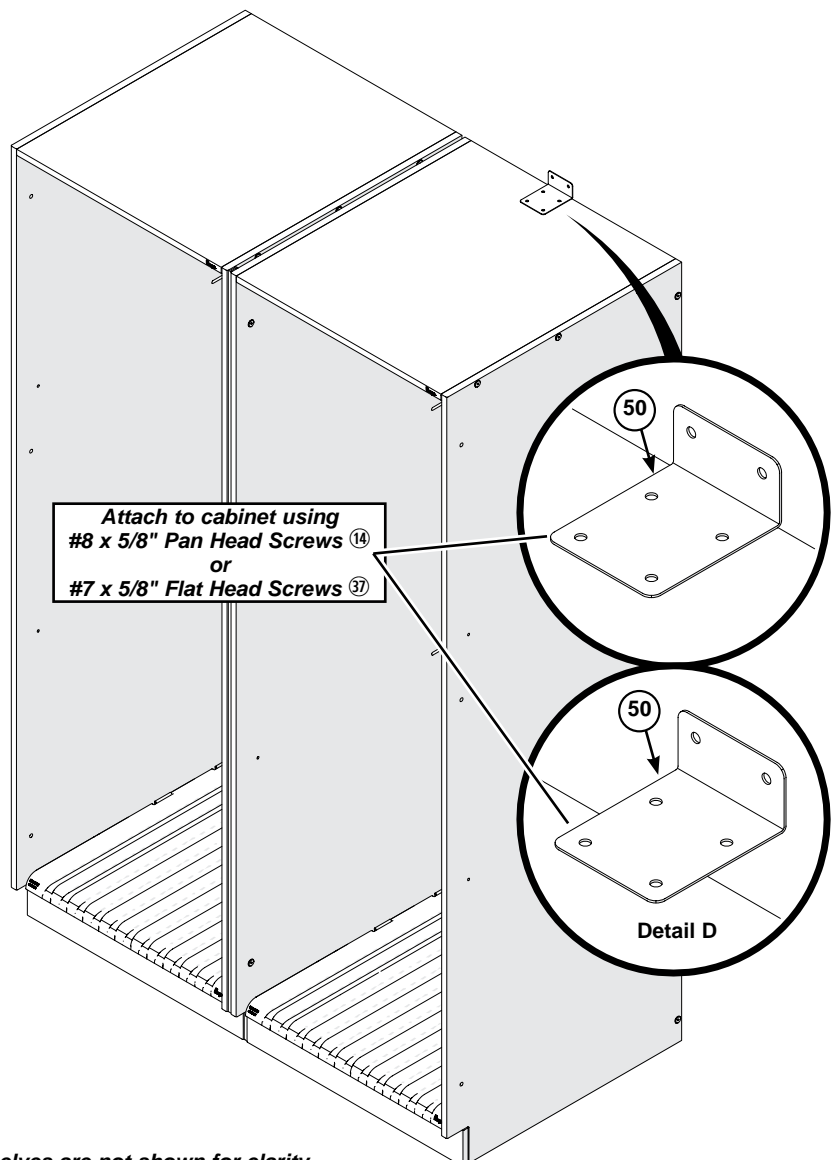
Cabinets as far away as 2" (51 mm) from the back wall can be attached using UltraStor wall brackets 50.

The brackets have extra holes for the best fit on the top of the cabinet.

**For taller cabinets, secure the bracket to the cabinet using #8 x 5/8" pan head screws 14.**

**For shorter cabinets that will have a work surface top installed, secure the bracket to the cabinet using #7 x 5/8" flat head screws 37.**

2. Instead of using the bracket, holes may be drilled through both the back panel and top rear stretcher 2" to 3" (51 to 76 mm) down from the top of the inside.
3. Attach the wall bracket or cabinet back to the wall surface.



*Cabinet doors and shelves are not shown for clarity.*

## Secure Cabinets - UltraStor (continued)

### ⚠ CAUTION

*In addition to the sides of the cabinets being secured, the cabinet backs must also be attached to either a back wall, to adjacent cabinets in an island formation or to the floor.*

### ⚠ CAUTION

*Inferior or improperly installed fasteners could cause the cabinets to tip over.*



**Cabinets must either be secured to the floor or back-to-back with adjacent cabinets.**  
**See below for securing back-to-back, see the previous page for securing to a wall.**

### Secure Cabinets Back-to-Back

Because materials and construction of walls can vary, fasteners for attaching the cabinets to the structure are not provided. The installer must choose the appropriate fastener and follow the manufacturer's instructions. See "Cabinet Fastener Guidelines" for more information.

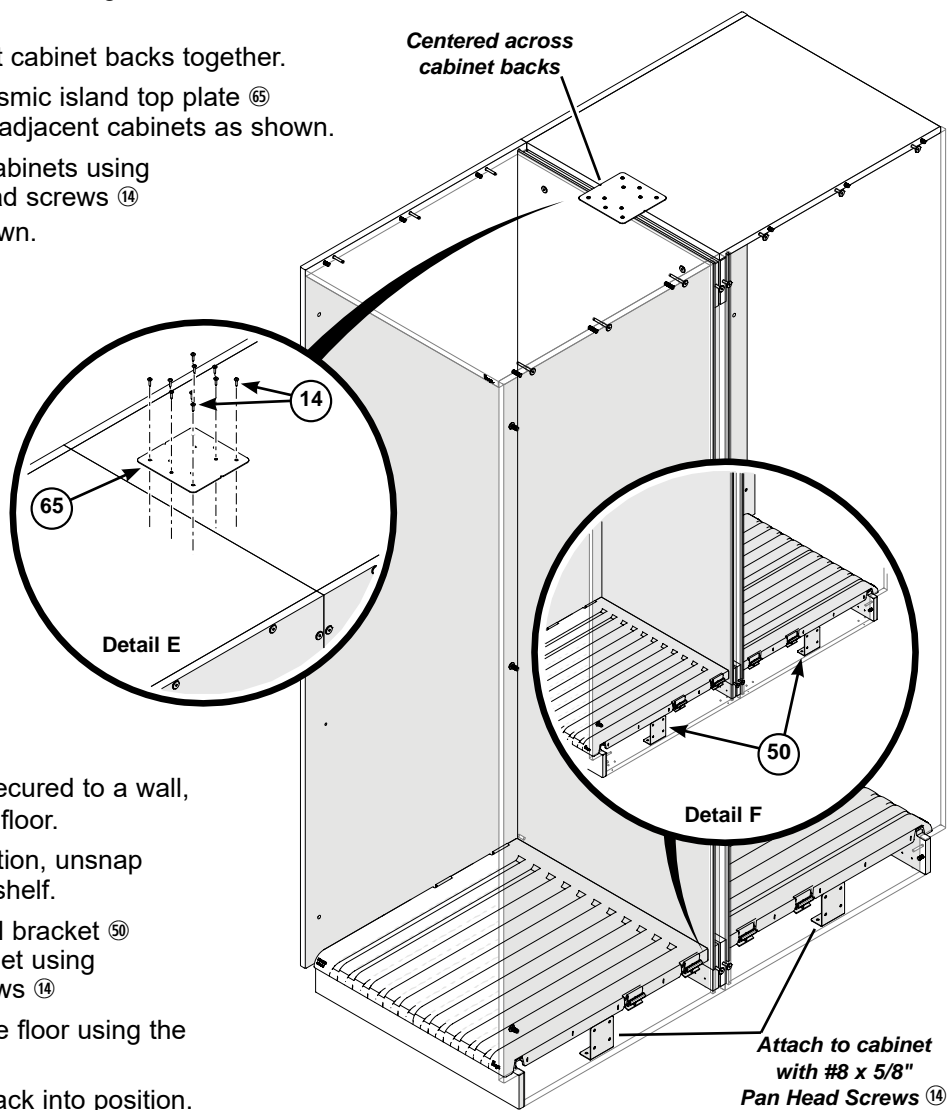
**Note:** Make sure the cabinet sides are secured together before attaching them back-to-back.

**Note:** If cabinets are installed in a back-to-back formation, adjacent cabinets must be connected across the tops in addition to being secured to the floor.

#### 1. See Detail E.

Connect the tops of adjacent cabinet backs together.

- Center one UltraStor seismic island top plate <sup>65</sup> across the backs of two adjacent cabinets as shown.
- Attach the plate to the cabinets using ten #8-15 x 5/8" pan head screws <sup>14</sup> (five per cabinet) as shown.



#### 2. See Detail F.

Since the cabinets are not secured to a wall, they must be secured to the floor.

- At the ends of the formation, unsnap and remove the bottom shelf.
- Attach one UltraStor wall bracket <sup>50</sup> to the inside of the cabinet using #8 x 5/8" pan head screws <sup>14</sup>.
- Secure the bracket to the floor using the appropriate fasteners.
- Snap the bottom shelf back into position.

*Cabinet doors are not shown for clarity.*



## Secure Cabinets - AcoustiCabinets



**This procedure is for securing AcoustiCabinets, for UltraStor Cabinets refer to page 39.**  
**For standard installations only, contact Wenger for seismic installation instructions.**

### Connect Cabinets Together

1. Depending on cabinet height, there are two to three holes at the front of the side panels for securing the cabinets together.

**See Detail A1**

These holes are positioned to align the fronts of the cabinets to be flush.

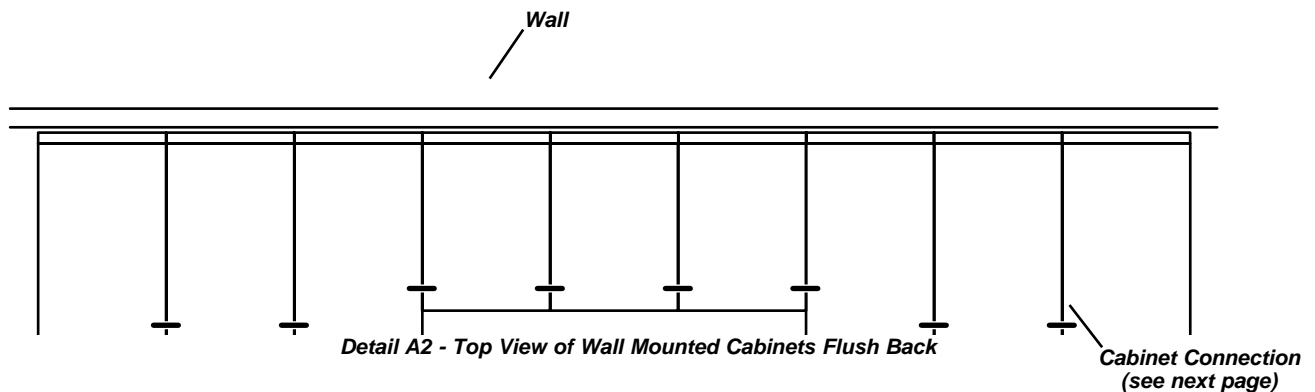
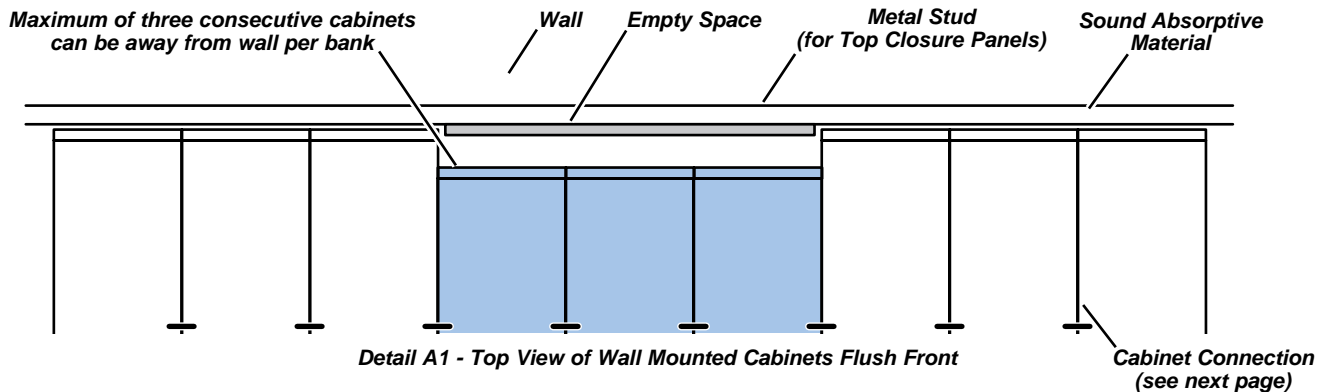
#### **! IMPORTANT**

**A maximum of three consecutive cabinets can be away from the wall per bank.**

**See Detail A2**

If different depth cabinets are to be aligned at the back, new 3/8" (10 mm) holes will need to be drilled. Use the holes in the shallowest cabinet as the template for the adjacent cabinet.

2. Top closure panels will be added to close off any empty space behind cabinets not flush with the back wall. See "Closure Panel Installation" on page 50.



## Secure Cabinets - AcoustiCabinets (continued)

### Connect Cabinets Together (continued)

3. Install trim strips. **See Detail B1 and B2.**

- Using the attached adhesive tape, stick two trim strips ④⑨ to the side panel of one cabinet.
- Attach the longer strip to be 1/8" (3 mm) back from the front edge and flush with the top of the cabinet.
- Attach the shorter strip to be 1/8" (3 mm) back from the front edge of the bottom front stretcher panel ④⑨ and flush with the floor.

This will hold the strips in position until the cabinets are connected together.

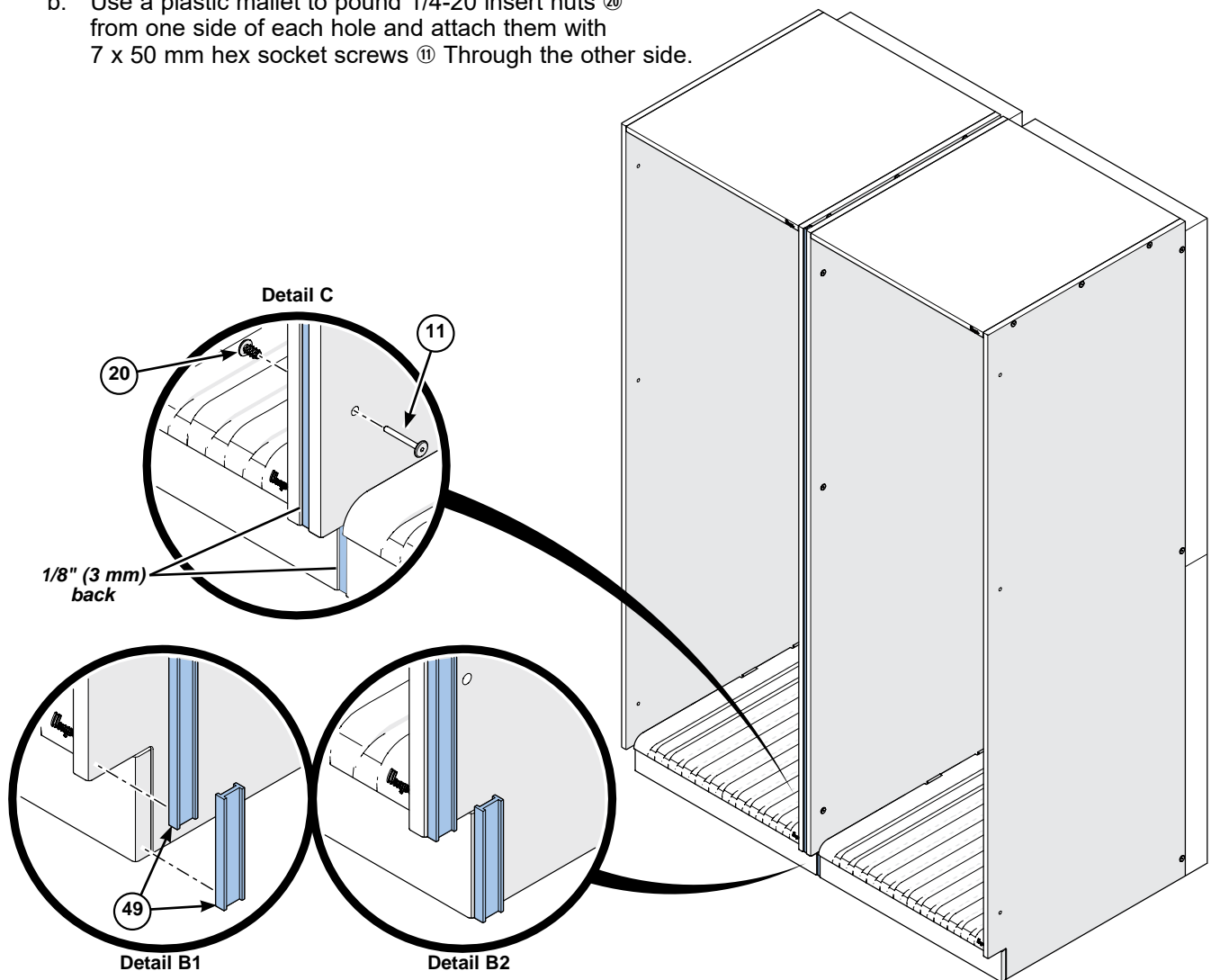
4. Connect adjoining cabinets. **See Detail C.**

Depending on cabinet height, there are two to three holes in the side panels for securing the cabinets together.

**Note:** These holes are positioned to align the fronts of the cabinets.

If different depth cabinets will be aligned at the back, new holes will need to be drilled (see previous page).

- See Detail B.** Position the adjoining cabinet to align these holes and to fit against the trim strips of the previous cabinet.
- Use a plastic mallet to pound 1/4-20 insert nuts ②⑩ from one side of each hole and attach them with 7 x 50 mm hex socket screws ⑪ through the other side.



*Cabinet doors and shelves are not shown for clarity.*

## Secure Cabinets - AcoustiCabinets (continued)

### ⚠ CAUTION

*In addition to the sides of the cabinets being secured, the cabinet backs must also be attached to a back wall.*

### ⚠ CAUTION

*Inferior or improperly installed fasteners could cause the cabinets to tip over.*



**Cabinets must be secured to a back wall and also be at least 2-1/2" (64 mm) away from the wall to allow space for the sound absorptive material.**

**For cabinets farther than 2-1/2" (64 mm) from the back wall, see "Closure Panel Installation" on page 50.**

**See below for securing to a back wall, see the next page for securing back-to-back.**

### Secure Cabinets 2-1/2" (64 mm) from Back Wall

Because materials and construction of walls can vary, fasteners for attaching the cabinets to the structure are not provided. The installer must choose the appropriate fastener and follow the manufacturer's instructions. See "Cabinet Fastener Guidelines" for more information.

**Note:** Make sure all the cabinets are secured together before attaching them to the back wall.

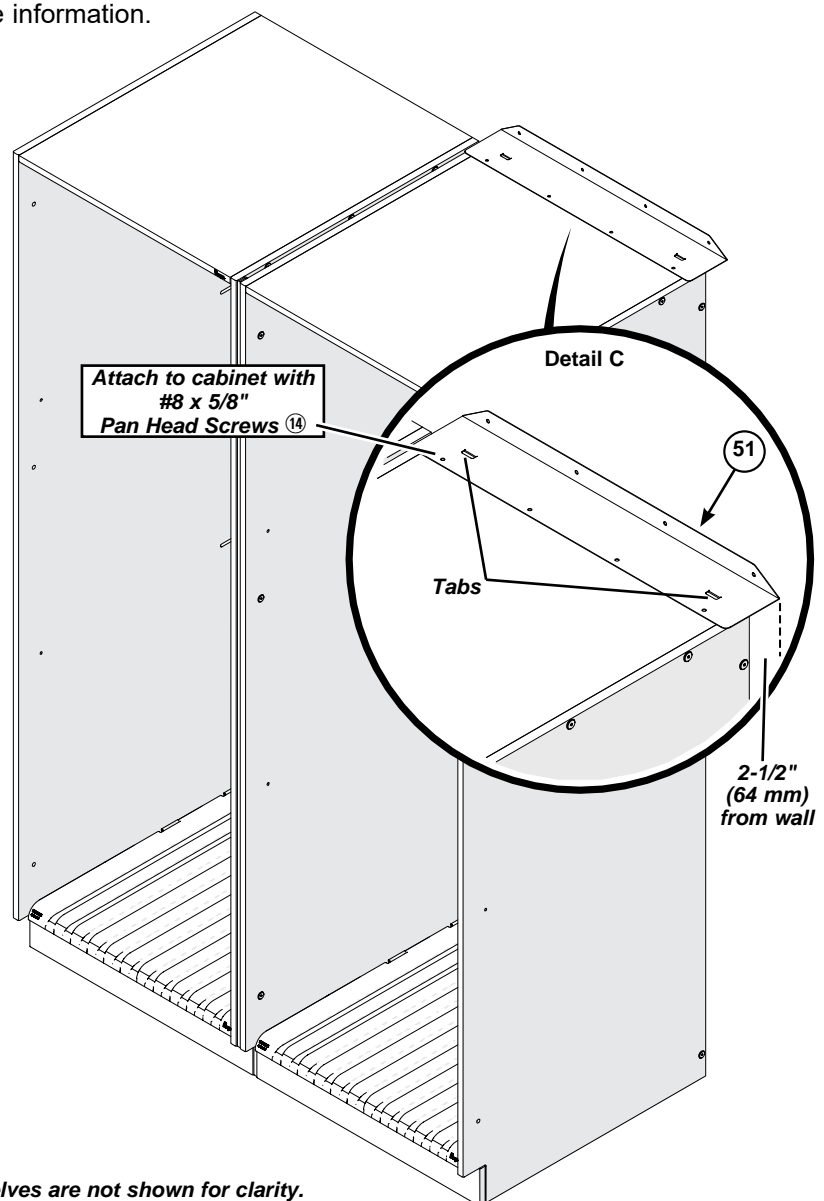
**1. See Detail C.**

Attach the wider tabbed surface of the AcoustiCabinet wall bracket ⑤① to the top edge at the back of the cabinet using #8 x 5/8" pan head screws ⑭ in the front four holes.

- The tabs should be flush with the cabinet and all open areas at the top of the cabinet should be covered by the bracket.
- On narrower cabinets, the bracket can be trimmed or the tabs can be flattened to overlap with adjacent brackets.

**Note:** To maintain spacing from the wall, a bracket must be attached to every cabinet.

- Position the cabinets with the mounting brackets against the wall.
- Attach the wall brackets to the wall surface.  
The brackets allow the recommended 2-1/2" (64 mm) spacing between the cabinet and the wall.



*Cabinet doors and shelves are not shown for clarity.*

## Secure Cabinets - AcoustiCabinets (continued)

### ⚠ CAUTION

*In addition to the sides of the cabinets being secured, the cabinet backs must also be attached to either a back wall, to adjacent cabinets in an island formation or to the floor.*

### ⚠ CAUTION

*Inferior or improperly installed fasteners could cause the cabinets to tip over.*



**Cabinets must either be secured to the floor or back-to-back with adjacent cabinets.**  
**See below for securing back-to-back, see the previous page for securing to a wall.**

### Secure Cabinets Back-to-Back

Because materials and construction of walls can vary, fasteners for attaching the cabinets to the structure are not provided. The installer must choose the appropriate fastener and follow the manufacturer's instructions. See "Cabinet Fastener Guidelines" for more information.

**Note:** Make sure the cabinet sides are secured together before attaching them back-to-back.

**Note:** If cabinets are installed in a back-to-back formation, adjacent cabinets must be connected across the tops in addition to being secured to the floor.

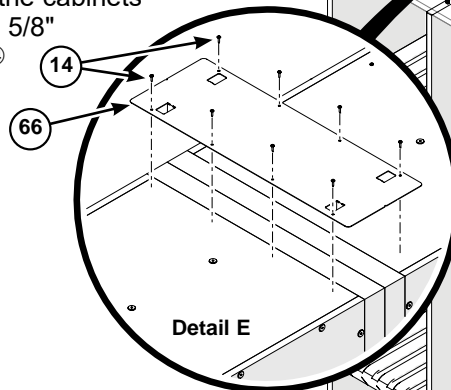
#### 1. See Detail E.

Connect the tops of adjacent cabinet backs together.

- On each AcoustiCabinet seismic island top plate <sup>66</sup>, bend the four tabs 90° down.
- Center one AcoustiCabinet seismic island top plate <sup>66</sup> across the backs of two adjacent cabinets as shown.

The tabs on the bracket must be flush against the backs of both cabinets to maintain 5" (127 mm) of spacing for the insulation.

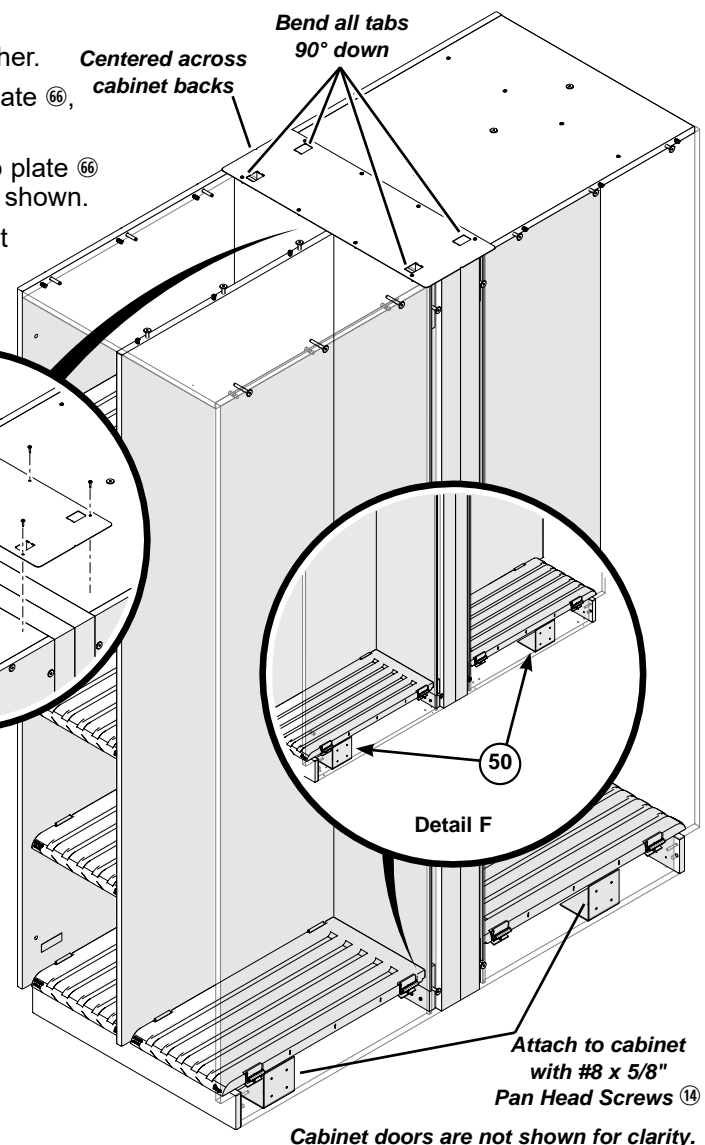
- Attach the plate to the cabinets using eight #8-15 x 5/8" pan head screws <sup>14</sup> (four per cabinet).



#### 2. See Detail F.

Since the cabinets are not secured to a wall, they must be secured to the floor.

- At the ends of the formation, unsnap and remove the bottom shelf.
- Attach one UltraStor wall bracket <sup>50</sup> to the inside of the cabinet using #8 x 5/8" pan head screws <sup>14</sup>.
- Secure the bracket to the floor using the appropriate fasteners.
- Snap the bottom shelf back into position.



## Finished Back Kit Installation



**Finished back panels are to be installed after all side cover panels are installed. After the following "Side Cover Panel Installation" procedure is complete, refer to Finished Back Kit for Cabinet Storage Products Assembly Instructions 250B093.**

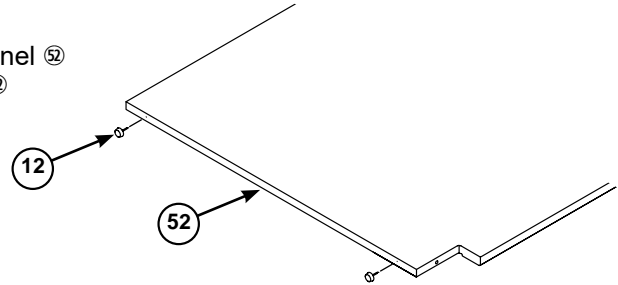
## Side Cover Panel Installation



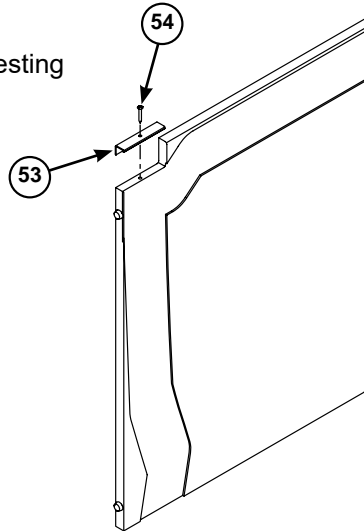
**Use this procedure to add a smooth finished panel to an exposed cabinet side.**

### End Cover Panels

1. With the package laid flat, carefully remove the cover panel ⑫ from the package and insert the two plastic glide tacks ⑫ into the bottom of the cover panel, centered and 2-3" (51-76 mm) from each end.

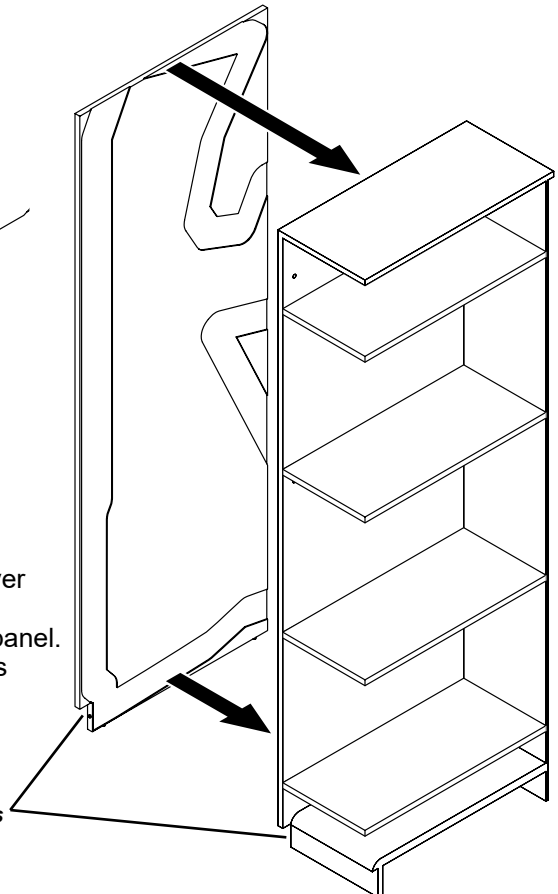


2. Lift the cover panel horizontally resting it on the back edge. Attach the end cover extrusion ⑤③ to the bottom front edge of the cover panel using a #8 x 1-1/4" screw ⑤④.



3. Lift the cover panel to a vertical position and fit it into place over the exposed hardware. Use the plastic glide tacks to protect the bottom of the cover panel. The cover panel should fit flush against the front and top sides of the cabinet. Verify that the correct end cover (LH or RH) matches the side of the cabinet that it is being installed on.
4. Lay the cover panel back down onto the packaging.

Notches  
Match



## Side Cover Panel Installation (continued)

### End Cover Panels (continued)

- Using the 3/16" drill bit, drill twelve holes (9nine holes for 68" [1727 mm] tall cabinets) into the side panel of the cabinet to be covered.

**Note:** Do not drill into a shelf or cross member. Measure before drilling so that the hole is 1-2" (25-51 mm) from the nearest horizontal surface to allow clearance for tools.

#### Top Row

Drill a hole 2-3" (51-76 mm) down from the top and 2-3" (51-76 mm) back from the front of the cabinet.

Drill the second hole 2-3" (51-76 mm) down from the top and 24-26" (610-660 mm) (14-16" [336-406 mm] for 19-1/4" [489 mm] deep cabinets) from the front of the cabinet.

Drill a third hole 2-3" down from the top and evenly spaced horizontally between the first two holes.

#### Bottom Row

Drill a hole 7-8" (178-203 mm) up from the bottom and 2-3" (51-76 mm) back from the front of the cabinet.

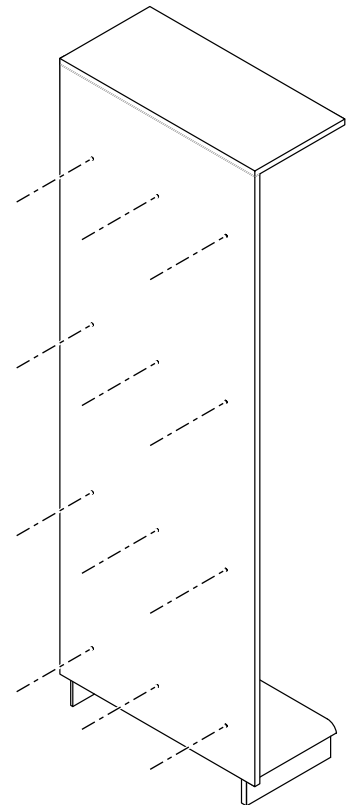
Drill the second hole 7-8" (178-203 mm) up from the bottom and 24-26" (610-660 mm) (14-16" [336-406 mm] for 19-1/4" [489 mm] deep cabinets) from the front of the cabinet.

Drill a third hole 7-8" (178-203 mm) up from the bottom and evenly spaced horizontally between the first two holes.

#### Middle Rows

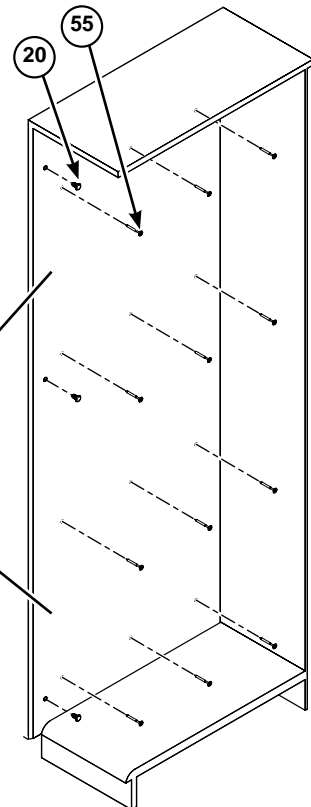
Drill two rows (1 row for 68" [1727 mm] tall cabinets) evenly spaced between the top and bottom rows. Use the same vertical spacing as the top and bottom rows.

- Raise the cover panel into position covering the cabinet side panel and flush with the front edge as in step 3.
- Clamp securely in position using at least two **non-marring padded clamps**.
- Insert all twelve of the supplied #8 1-3/8" wood screws ⑤ (nine are used on 68" [1727 mm] cabinets).  
**Do not over-torque or strip out the screws.** Tighten securely and remove the clamps.
- Insert 1/4-20 insert nuts ② into the open holes at the inside front edge of the cabinet side panel.



Use Non-marring  
Padded Clamps

Cabinet shelves are  
not shown for clarity.



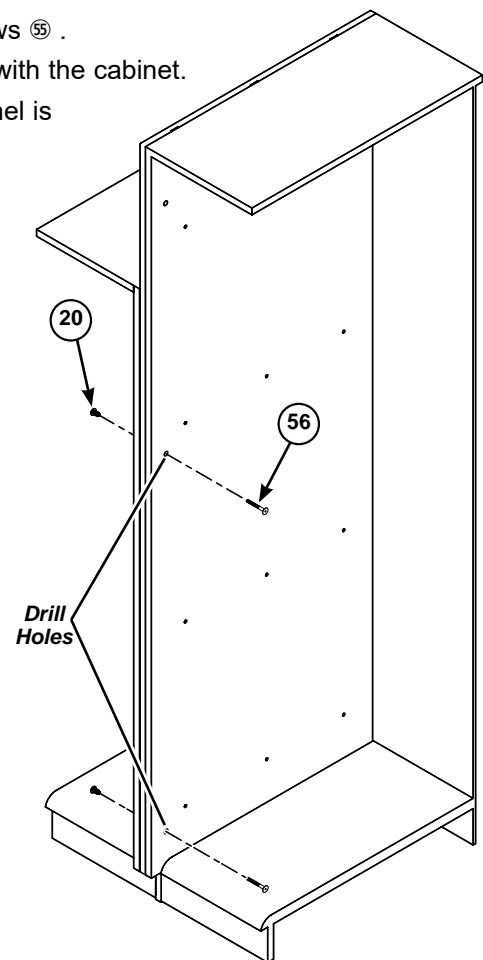
## Side Cover Panel Installation (continued)

### Center Cover Panels



**Use the following steps ONLY when a smaller cabinet is adjacent to a larger cabinet with a cover panel in place on the larger cabinet.**

1. Install the cover panel using the procedures in "End Cover Panels".
2. Align both cabinets to the desired configuration.  
If the cabinets are different depths, they may be aligned to be flush with the front as shown or flush with the back.  
**Note:** Do not drill into a shelf or cross member.  
Measure before drilling so that the hole is 1-2" (25-51 mm) from the nearest horizontal surface to allow clearance for tools.  
It may be necessary to move a hole and drill completely through the smaller cabinet side panel, cover panel and larger cabinet side panel simultaneously.
3. Drill two connecting holes through the cover panel and attached cabinet side panel (drill three holes if the cabinets are both over 68" [1227 mm] tall) using the 3/8" drill bit through the holes already in the smaller cabinet.
4. If there is not enough room in the compartment for a drill, it may be necessary to mark the holes using a pencil through the connecting holes in the smaller cabinet side panel, move the smaller cabinet, drill the holes through the cover panel and larger cabinet side panel, re-position the smaller cabinet and connect them all together.
4. Connect the cabinets together using 1/4-20 x 2.359" machine screws ⑤⑤ .
5. Plug the hole at the other end with the plugs ⑤⑥ that were included with the cabinet.
6. Use of trim strips ④⑨ between the smaller cabinet and the cover panel is required (trim strips are included with cabinet).



*Cabinet shelves are not shown for clarity.*

# Closure Panel Installation



**Use this procedure to close off open spaces between cabinets.**

## Before You Begin

Read and understand this procedure before starting the assembly.  
Remove all items from the shipping carton. Each kit contains:

- One 8' x 4' (2438 x 1219 mm) closure panel ⑥
- Two 2" x 4" x 8' (51 x 102 x 2438 mm) metal studs ⑥
- Three 8' (2438 mm) pvc extrusion strips ⑥ (to cover variations in the perimeter of the space being closed off)
- Screws
  - #8 x 1-1/4" truss head screws ⑦ (to attach wood panels)
  - #8 x 5/8" pan head screws ⑭ (to attach metal studs)

Because materials and construction of walls can vary, fasteners for attaching the cabinets to the structure are not provided. The installer must choose the appropriate fastener and follow the manufacturer's instructions. See "Cabinet Fastener Guidelines" for more information.

## Required Tools

- Pencil
- Tape measure
- Hacksaw
- Carpenter's square
- Circular saw
- Drill with phillips head bit or screwdriver

## Planning the Installation

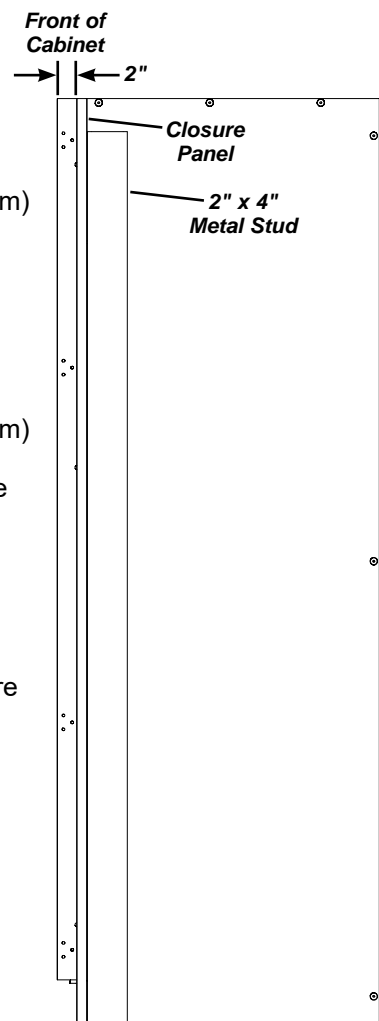
1. Be sure the cabinet(s) are in their desired location and are level and square before installing the closure panels.
2. A closure panel kit includes a panel which is 8' long x 4' (2438 x 1219 mm) wide. For smaller spaces, the panel will be cut to size.

**Wenger does not recommend using the closure panels to fill spaces larger than 32" (813) wide except in the situations shown in these instructions.**

3. If one side panel abuts a wall, appropriate fasteners will need to be purchased to attach the metal studs to the structure.
4. Closure panels alongside cabinets should be installed set back 2" (51 mm) from the front of the cabinet (flush with the face of the toe-kick area). Soffit panels should likewise be set back 2" (51 mm) from the front of the cabinet.

The top edge of all vertical closure panels should be installed flush with the top of the cabinet.

5. The illustrations on the following pages show the normal locations where the 3/4" x 8' (19 x 2438 mm) pvc extrusion strips are used. However, they can be installed on any edge of the closure panel(s) where desirable for a more finished appearance.
6. The assembly procedure shows a typical installation of a vertical closure panel between a cabinet and the wall. The procedure for other situations is similar. Refer to the appropriate illustration and follow the step-by-step procedure.



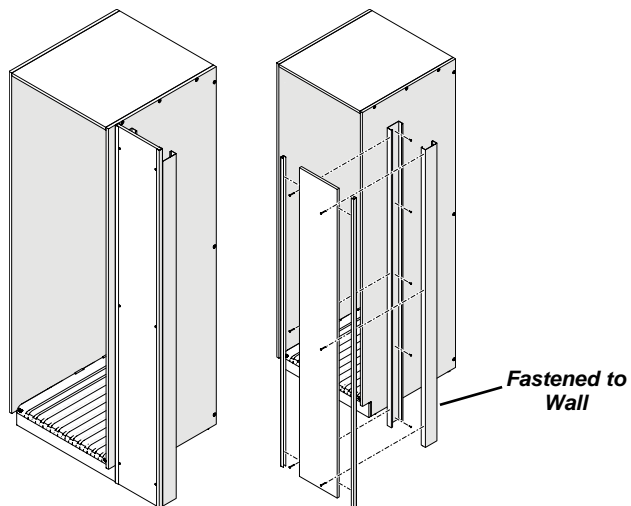


## Closure Panel Installation (continued)

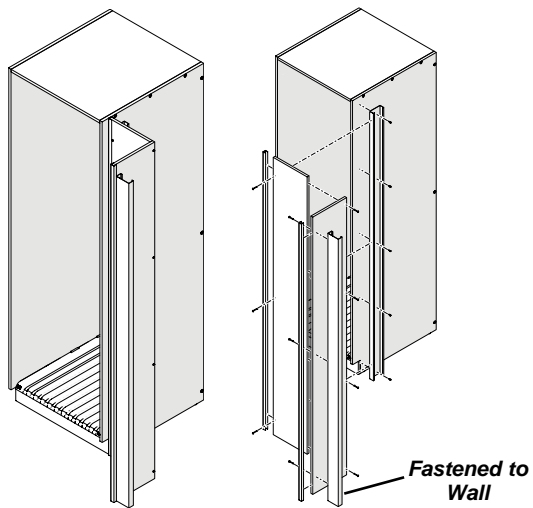
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### Closure Panel Configurations

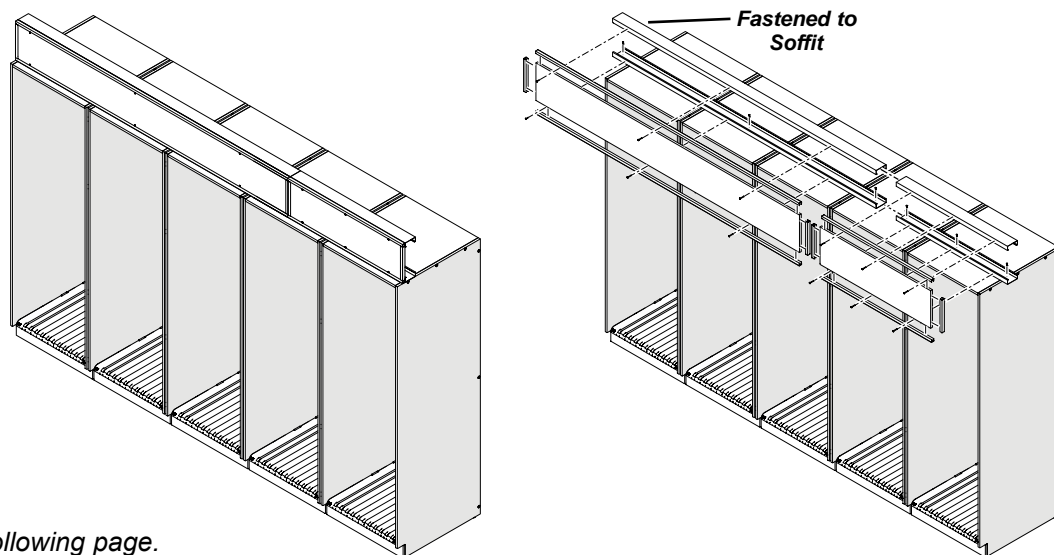
Vertical  
Closures



Vertical Corner  
Closures



Soffit Closures



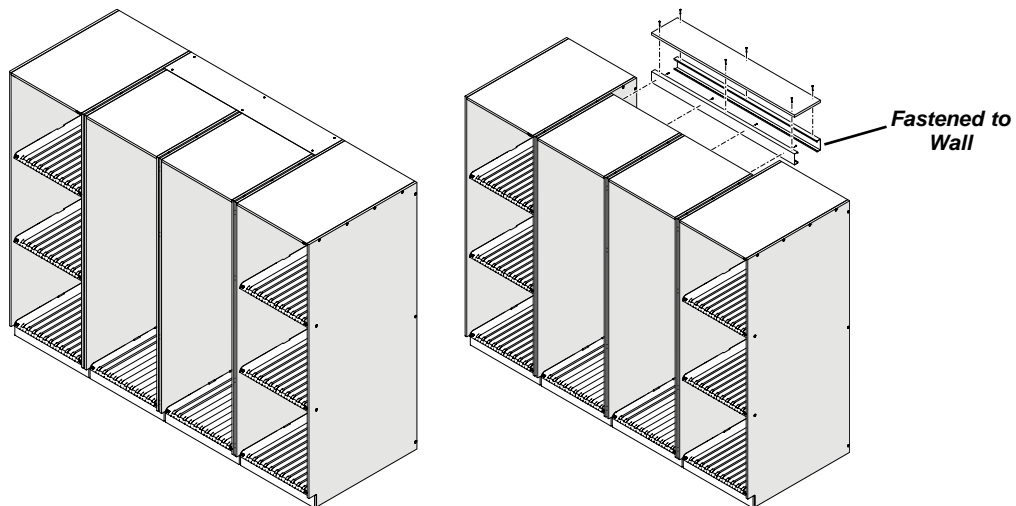
Continued on following page.

## Closure Panel Installation (continued)

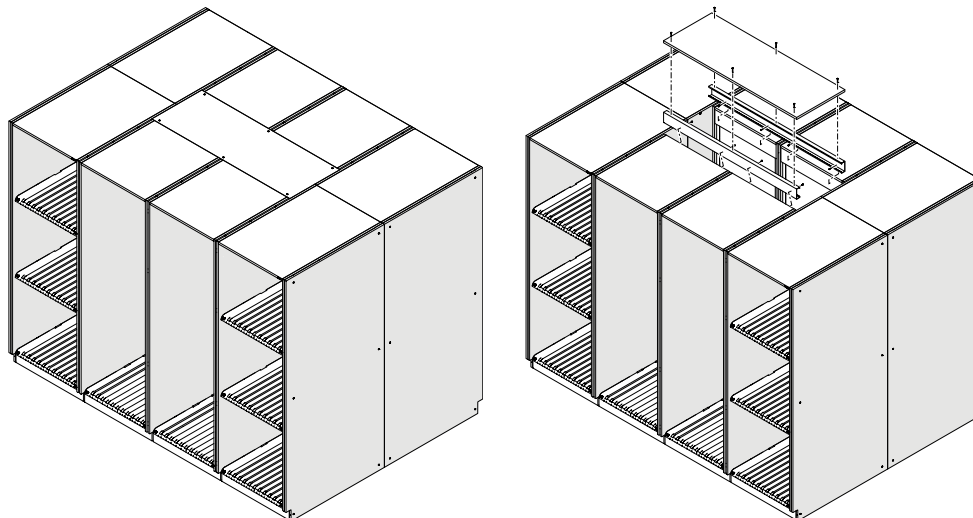
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### Closure Panel Configurations (continued)

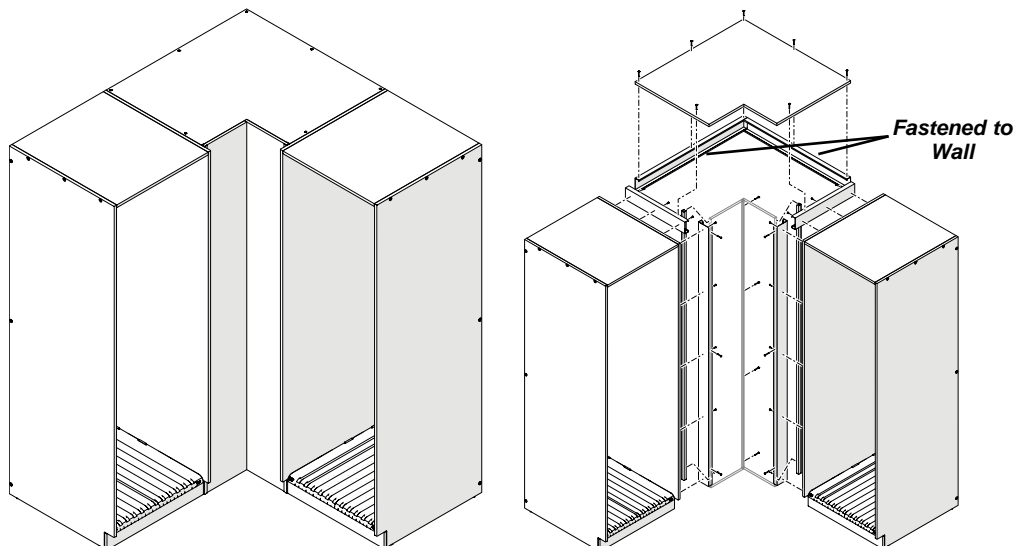
Back Top  
Closures



Island Closures



Corner Top  
Closures

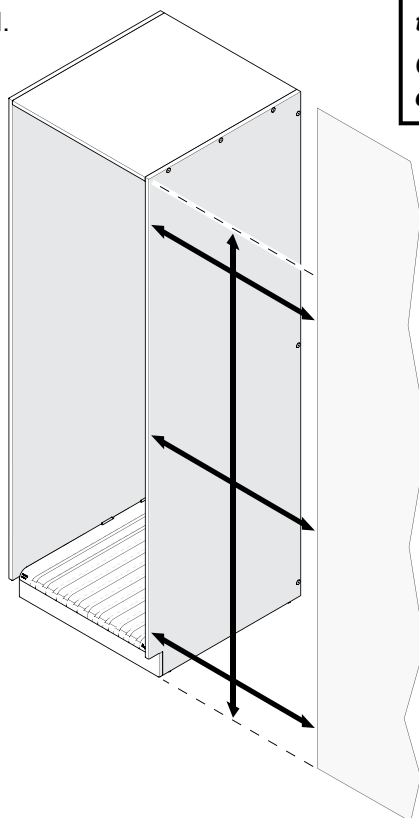


## Closure Panel Installation (continued)

### Closure Panel Assembly

Vertical closure assembly is shown, the procedure is similar for all closure types.

1. Measure the size of the opening to be filled.  
**Make several measurements as the opening size may vary.**

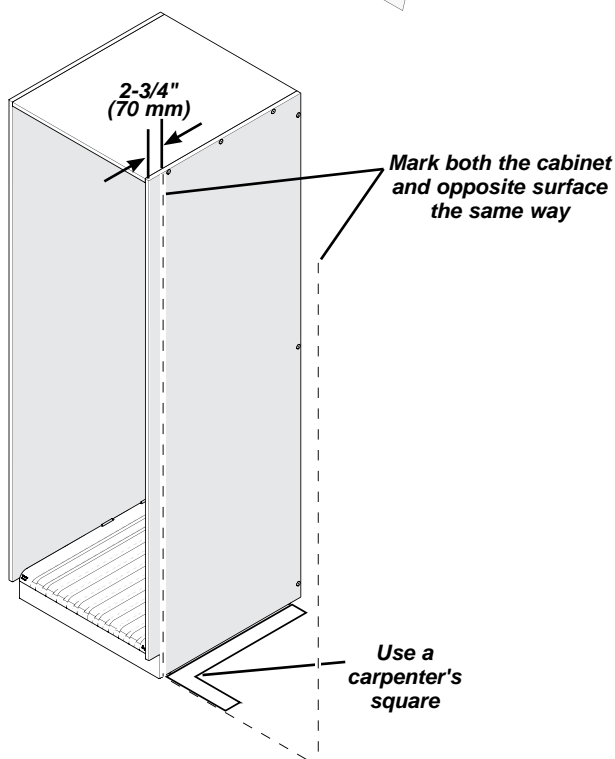


### ⚠ CAUTION

**Do not stand or walk on the top of any cabinet.**

**Cabinet top maximum load capacity is 50 lb (23 kg).**

2. Mark the location of all metal studs <sup>Ⓜ</sup> (2-3/4" back from the front of the cabinet).

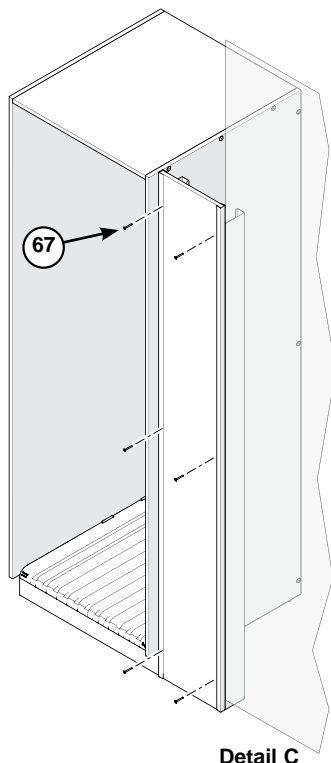
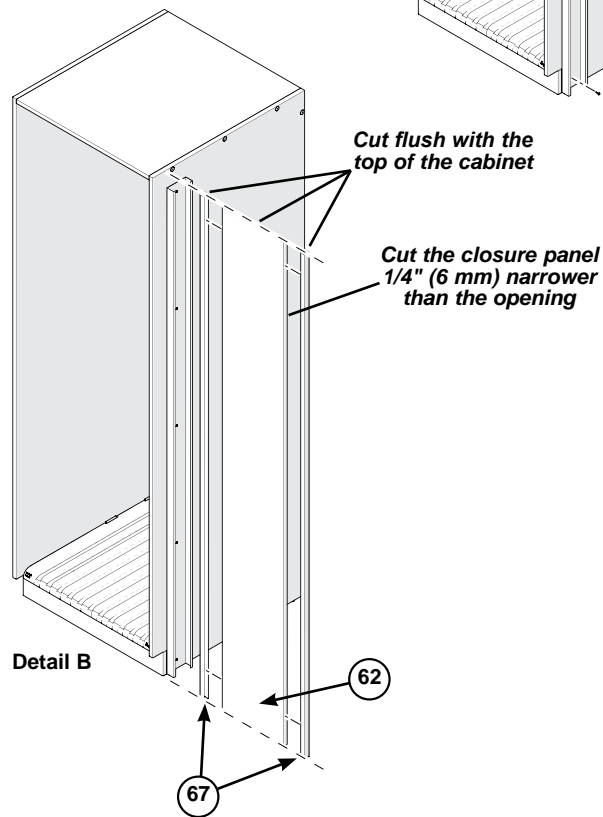
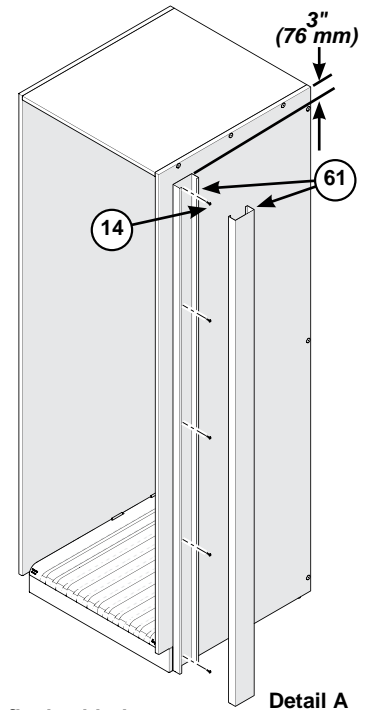


*Cabinet doors and shelves are not shown for clarity.*

## Closure Panel Installation (continued)

### Closure Panel Assembly (continued)

3. **See Detail A.** Cut the 2" x 4" x 8" metal studs ⑥1 to size (vertical studs to 81" [2057 mm]).
4. **See Detail A.** Attach the metal stud to the marked locations 3" (76 mm) down from the top of the cabinet.
  - a. Attach one stud to the cabinet using five #8 x 5/8" pan head screws ⑭.
  - b. Attach the other stud to the adjacent structure or cabinet using the appropriate fastener and follow the manufacturer's instructions. See "Cabinet Fastener Guidelines" for more information.
5. **See Detail B.** Cut the closure panel ⑥2 and extrusion strips ⑥7 to size. Cut the closure panel 1/4" (6 mm) narrower than the opening.
6. **See Detail B.** Slip the extrusion strips to fit onto the edge(s) of the closure panel.
7. **See Detail C.** Attach the closure panel to the metal studs using six #8 x 1-1/4" truss head screws ⑥7. Loosely tighten the screws. Push the extrusions out against the cabinet or structure, then finish tightening the screws to hold the extrusions in place.



## Work Surface Tops (Cabinets 50-62 Only)

### Wall Mount Installation

1. Align the work surface on the top of the cabinet with 1/2" (13 mm) overhang to the front and 1" (25 mm) to the side where appropriate.  
Position the rounded corner facing traffic areas or as shown on the installation drawings.  
Attach from the underside using #8 x 1.5" wood screws ⑦ through the pilot holes in the cabinet tops.
2. For Cabinet 62, insert the drawers into drawer glides.

### Island Installation

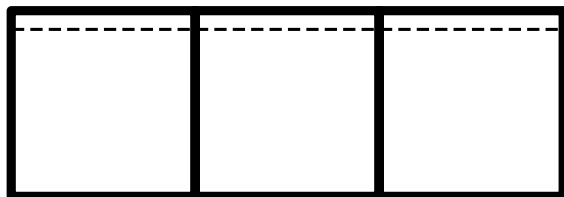
1. **See Detail A.** Align the work surface on the top of the cabinets with 1/2" (13 mm) overhang to the front and 1" (25 mm) to the side where appropriate. For single row cabinet islands, align for 1/2" to 1" overhang on the backside.  
Position the rounded corners to traffic areas or as shown on the installation drawings.  
Attach from the underside using #8 x 1.5" wood screws ⑦ through the pilot holes in the cabinet tops.
2. For a single row island installation attach the cabinet connector bracket ⑤⑧ to the back of the cabinet and to the underside of the work surface using #8 x 5/8" flat head sheet metal screws ⑤⑨. Place finished back panel over bracket.
3. For double row cabinet island installation attach the cabinet connector bracket ⑤⑧ using #8 x 5/8" flat head sheet metal screws ⑤⑨ to the sides of the two outer cabinets on both ends of the island and to the underside of the work surface. Place finished end cover panel over bracket.

### ⚠ CAUTION

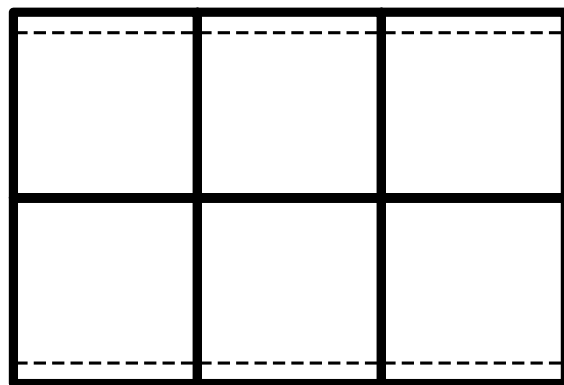
***Do not stand or walk on the top of any cabinet.***

***38" (973 mm) cabinets with work surface tops have a maximum load capacity of 250 lb (113 kg) for evenly distributed loads.***

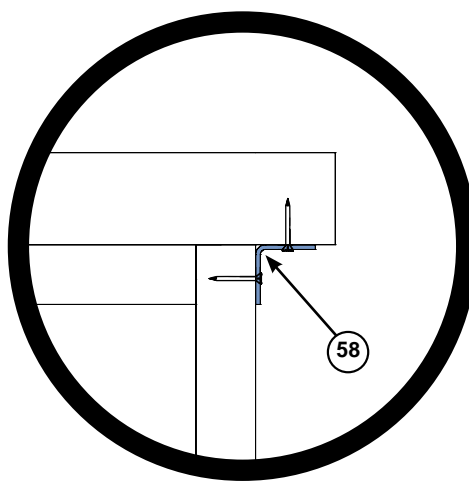
***All other cabinets have a top maximum load capacity of 50 lb (23 kg).***



Single Row Cabinet Island



Double Row Cabinet Island



Detail A

## *Cabinet Maintenance*

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### ***Cleaning***

For removal of mild stains and mild scuff marks, the polyester wood panels and polyester shelves may be cleaned using an all-purpose household cleaner, or just simple mild soap and water.

For heavier scuff marks, ink stains, felt pen and magic marker stains, or other tough stains; use a non-abrasive cleaner, or an industrial all-purpose cleaner. Ammoniated or vinegar-based glass cleaners also work well for these stains.

Do not use harsh abrasive cleaners, as permanent damage could occur to the panel surface. Be sure to quickly remove all cleanser residues with water and wipe dry with a soft cloth.

### ***Humidity Control***

To insure longevity of panel performance, maintain the relative humidity between 25% - 55% at the permanent installation site.

## *Cabinet Compartment Labeling*

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Visit the Storage Products web page at [wengercorp.com](http://wengercorp.com) for detailed instructions and videos.