

Thank you for purchasing one or more Hamilton steel workstation base units.

Various base units are available that vary in length, width and depth. When ordering replacement parts, have a complete description and model number of your unit.

Upon receiving shipment, examine each carton for damage. If damage occurred during shipment, notify the carrier immediately.

Before starting assembly, have the proper tools and required materials available. Wear appropriate safety equipment when using tools.

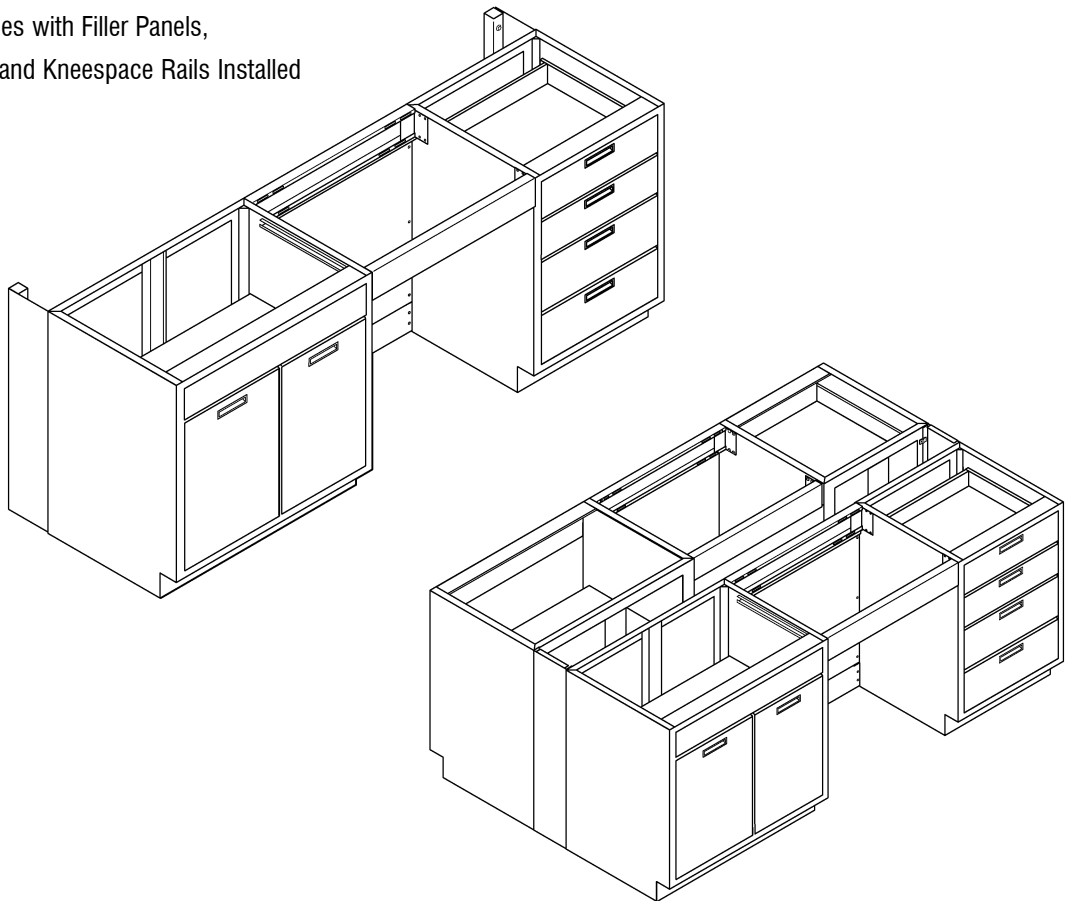
**Tools Required** (not Included):

Tape Measure  
Screwdrivers, Phillips head and flat head  
Electric Drill and Set of Drill Bits  
Center punch  
Bubble Type Level  
Wrenches, Open End or Box  
Socket Wrench Set - 3/8" or 1/2" Drive  
Marking Device (Pencil, Scribe, etc.)  
Plumb Bob

**Materials Required** (Not Included)

Cleats (Wood or Metal Angle)  
Silicone Adhesive  
Double Face Tape

Base Unit assemblies with Filler Panels,  
Kneespace Panels and Kneespace Rails Installed



# Hamilton Steel Workstation Base Units

## A – General Considerations Before Starting

1. Good mechanical abilities are required along with a thorough understanding of plumbing, electrical and gas installations. Qualified tradesman are recommended for all plumbing, electrical and gas installations.
2. All services should be roughed in to the area where the base units will be located.
3. Floors and walls should be level and straight. Floors must be level to within 3/4" for base unit levelers to be effective.

## B- Installing Service Lines

**Note:** The following dimensions and Fig. 1 are recommendations only. Local Codes and building conditions may dictate different heights and locations.

(Refer to Fig. 1))

1. Service lines should be fastened to the wall where necessary for greater support. These are normally arranged in the following manner and heights above the floor.

Vent Line - - - - -	20"
Drain Line - - - - -	2" Sloping to 4"
Cold & Hot Water - - -	12" and 16" Above Floor
Gas, Air, Vacuum - - - -	12" and 16" Above Floor
Other Services - - - - -	12" and 16" Above Floor

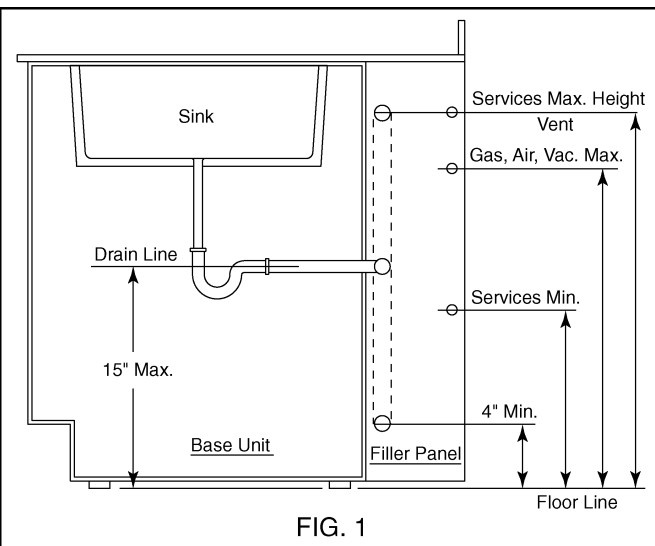


FIG. 1

## C – Attaching Rear Filler Panel Mounting Brackets

(Refer to Fig. 2)

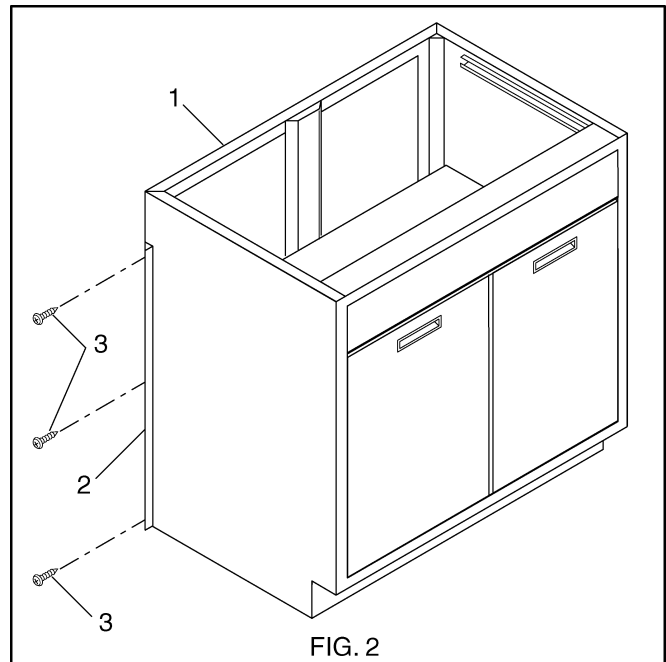


FIG. 2

1. Locate the rear kneespace panel mounting brackets (2). Hold one of the predrilled brackets against the inside and at the rear of one of the base units (1) with the three mounting holes flush against the base unit sides.
2. The back edge of the bracket (2) must be flush with the rear of the base unit. The lower end of the bracket should be even with the bottom of the base unit.
3. Using the three holes as guides, carefully insert three No. 6 x 3/8" pan head drilling screws (3) through the bracket holes and drive them into the base unit side.
4. Repeat Steps 1-3 for the remaining base units.

## D – Preparing the Knee Space Rails for Assembly

(Refer to Fig. 3)

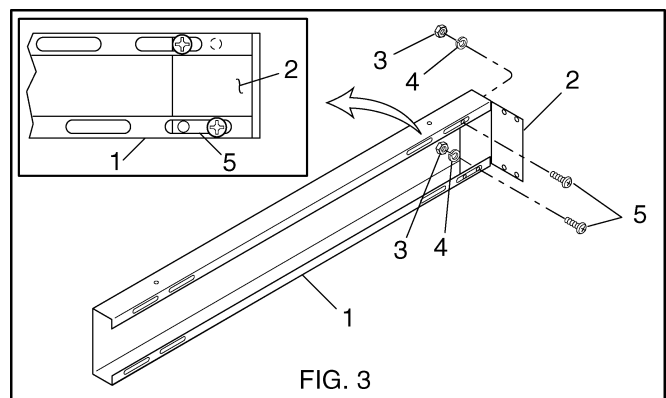


FIG. 3

# Hamilton Steel Workstation Base Units

1. Locate one of the kneespace rails (1). Slide one of the angle brackets (2) into one end and secure with two 1/4 x 1/2" pan head screws (5), lock washers (4) and nuts (3) from the hardware kit supplied.
2. Attach another angle bracket (2) to the opposite end of the kneespace rail (1). Same as Step-1.
3. Locate the remaining kneespace rails and attach the angle brackets as outlined in Steps-1 & 2.

## E – Installing the Kneespace Rails to the Base Units

(Refer to Fig. 4)

1. Move base units to the proper area in the room where the services have been roughed in.

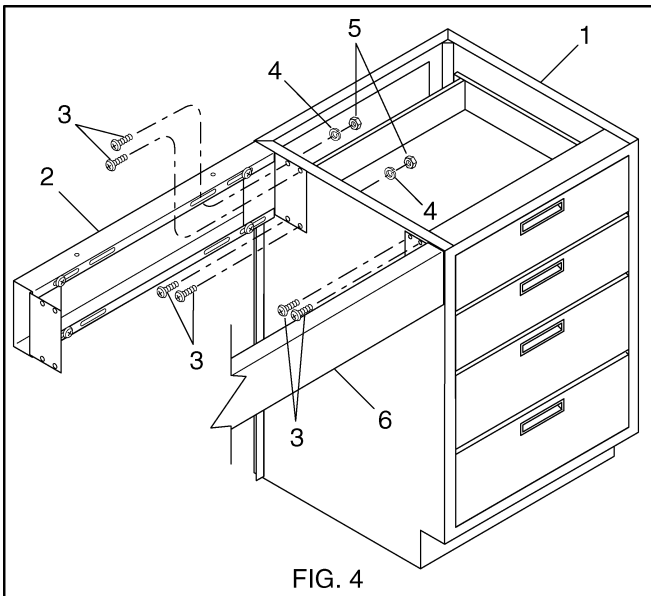


FIG. 4

2. Position one of the kneespace rail assemblies (2) to the inside rear of one of the base units (1). The rail assembly must be even and flush with the rear and the top of the base unit.
3. Using the four holes as guides, carefully mark and drill four 9/32" diameter holes into the base unit sides.
4. Secure the rear kneespace rail assembly (2) to the base unit side by inserting four 1/4 x 1/2" phillips pan head screws (3), lock washers (4) and nuts (5).
5. Repeat Steps 2-4 and attach the front kneespace rail assembly (6).
6. Slide another base unit assembly against the kneespace rails previously attached in Steps 4 and 5. Make sure both base units are in alignment and leveled.

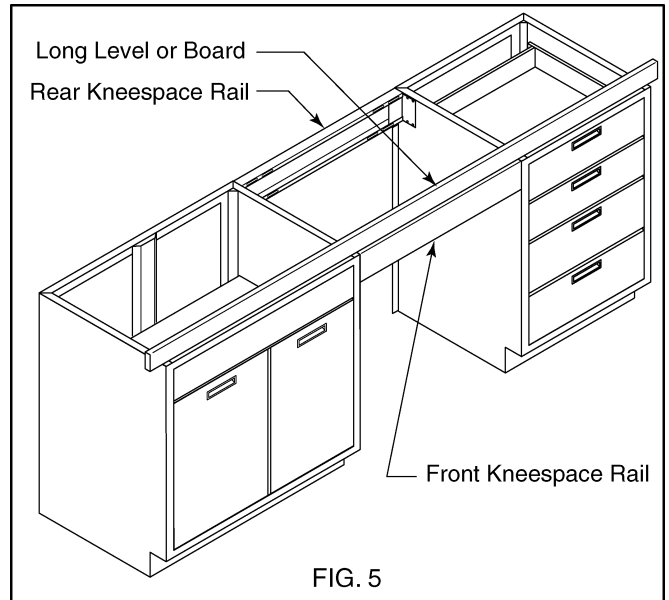


FIG. 5

(Refer to Fig. 5)

7. Lay a long level or straight board across the tops of the base units and kneespace assemblies. Check to make sure there are no high spots and that all units are level from front to back and side to side. Use levelers under base units if necessary for leveling.

## F – Installing the Toe and Kneespace Panels

(Refer to Fig. 6)

1. The toe and kneespace panels attach at the rear between the base units.

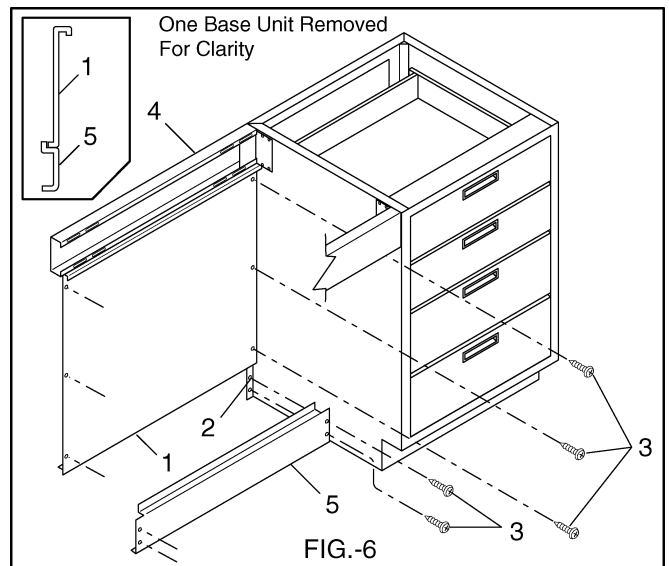
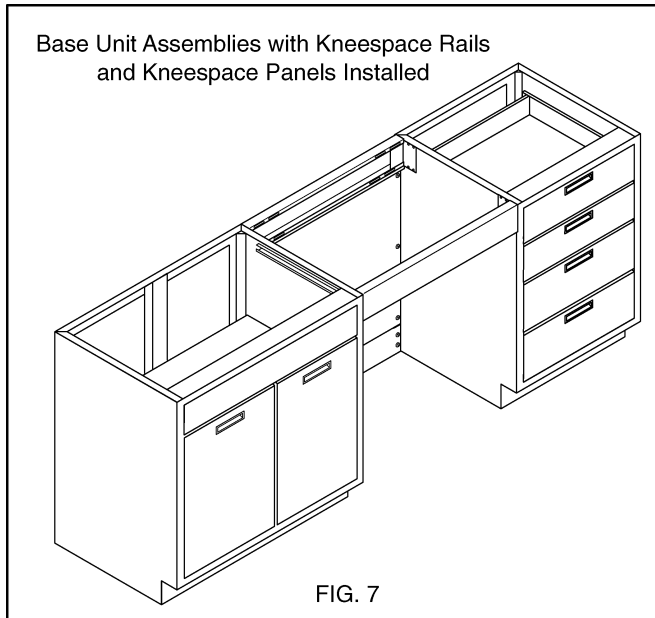


FIG. 6

2. Locate the toe space panel (5) and position it against the previously attached rear angle mounting brackets (2). The bottom of the toe space panel (5) should be flush with the bottom of the base unit or cabinets.

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3. Hold the toe panel (5) in place and attach each side with two No. 6 x 3/8" pan head drilling screws (3).
4. The kneespace panel (1) is mounted similar to the toe space panel using six pan head drilling screws.
5. Rest the kneespace panel (1) on the top flange of the toe space panel (5). Hold the panel in place and against the previously attached rear angle mounting brackets. Secure each side with three No. 6 x 3/8" pan head drilling screws (3).
6. Units should appear similar to Fig. 7 below.



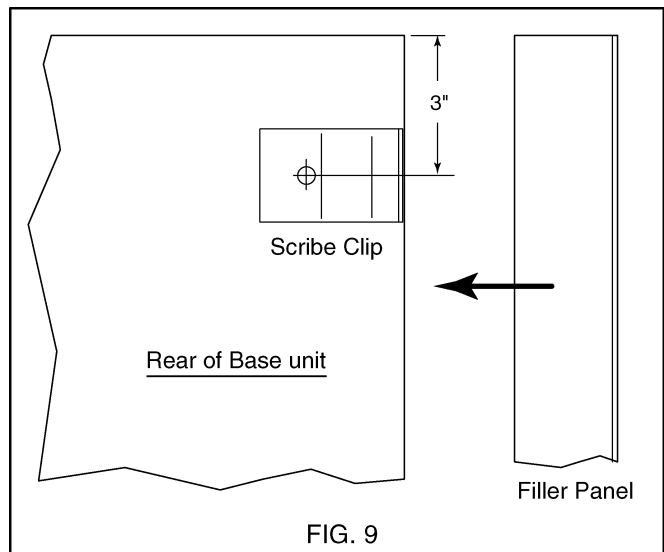
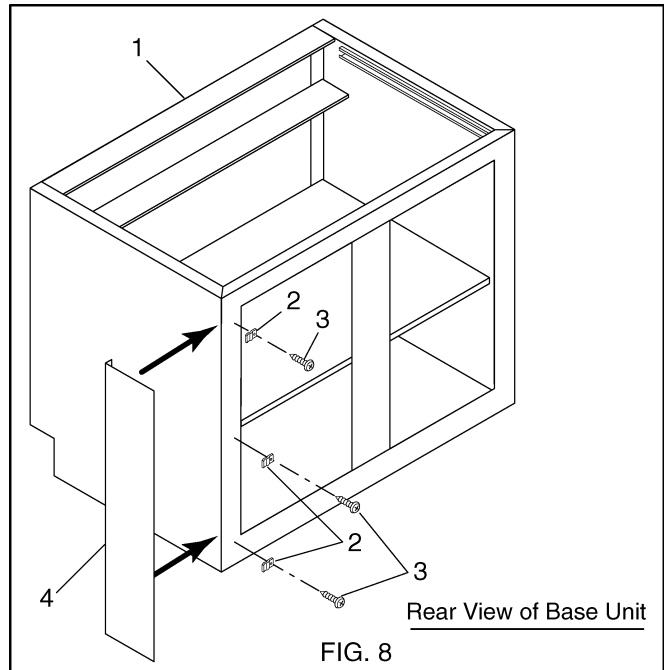
## G – Installing Filler Panels

**Note:** The following illustrates typical examples of filler panel installation.

(Refer to Fig. 8 & 9)

1. Filler panels are too numerous to show all configurations in this instruction. All available configurations are listed in the Hamilton Scientific Quick Ship Catalog.
2. Most filler panels attach in a similar manner using scribe clips (2) and pan head self drilling screws (3) included in the hardware bag supplied with each filler panel.
3. Filler panels are used to fill or cover openings between cabinets or base units and walls or between two cabinet assemblies. They are also used at corners and with tall cabinet assemblies.
4. It is recommended that the scribe clips (2) be attached to the rear of the base units first.
5. Refer to Fig. 9 and hold a scribe clip approximately three inches from the top of the base unit and flush with the rear. Insert a No. 6 x 3/8" self drilling screw into an electric drill with a magnetic screw driver bit or a screw holder.

Use the scribe clip hole as a guide and drive a screw into the base unit side securing the clip.



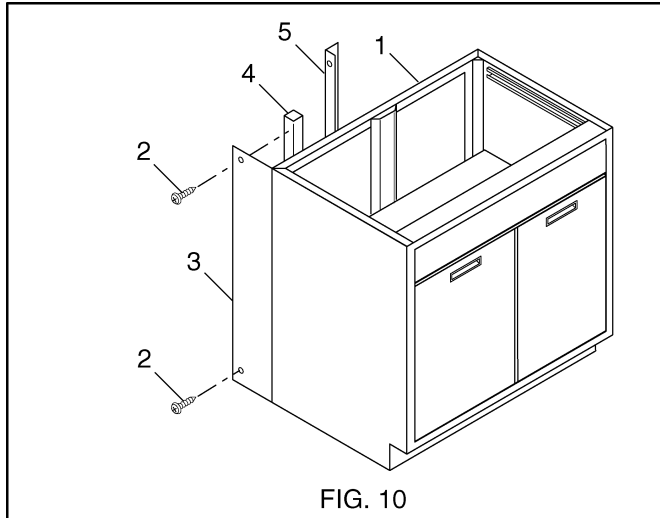
6. Use the same procedure at the bottom of the base unit. Measure up three inches and attach another scribe clip. In some cases, especially taller units, three scribe clips may be supplied for each side.
7. The filler panels may now be inserted by pushing or forcing the panel between the scribe clips and the base unit back.

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## H – Attaching Flat Filler Panels to the wall

(Refer to Fig. 10)

1. Wood cleats, 1 x 2" or 2 x 2" (4) or metal angle brackets (5) may be anchored to the wall using appropriate hardware for the particular type of wall encountered (wood, Concrete etc.). Note: wood cleats or metal angle brackets are not supplied.

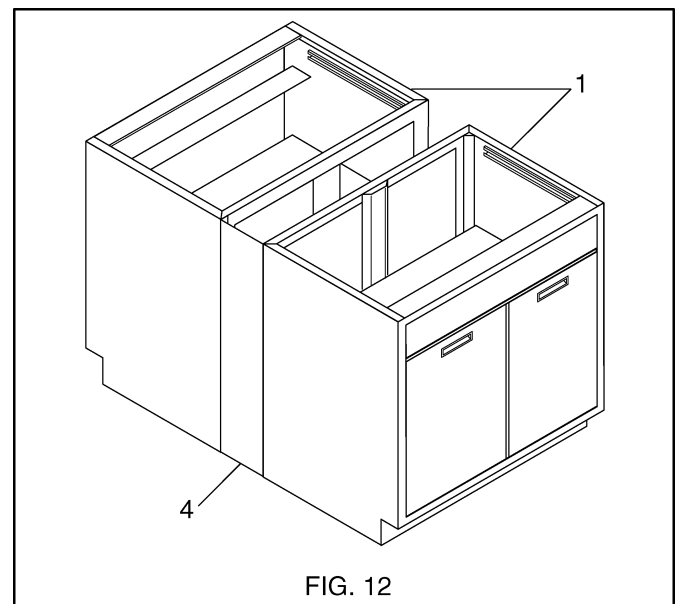
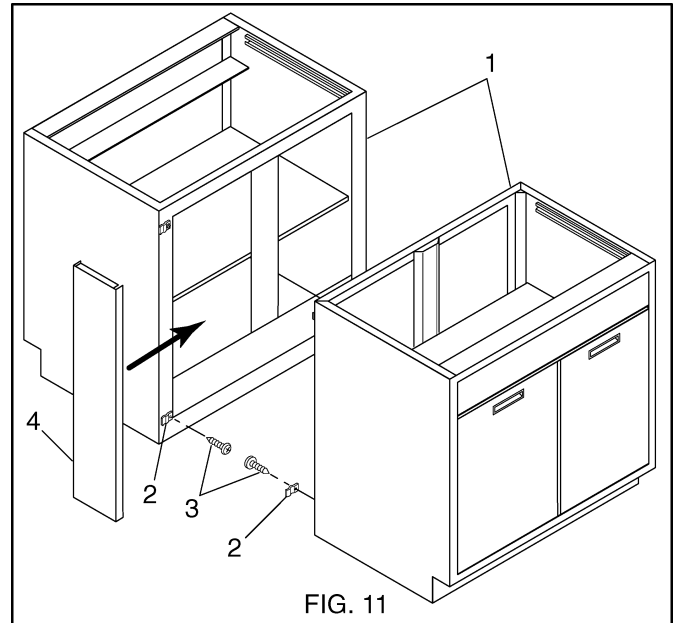


2. Attach the wall cleats (4 or 5) to the wall. Slide the base units (1) back with the filler panels (3) engaging the outside of the cleats.
3. Make sure the base units (1) are level and plumb. The fillers (3) may be attached to the wall cleats (4 or 5) with screws (2), Silicone adhesive, double sided tape or pop rivets (Not supplied).
4. It is important that all base unit or cabinet assemblies be properly leveled and straight with no high spots. High spots will prevent the epoxy or chemsurf tops from setting level and flush on the base units or cabinet tops.

## I – Attaching Center Filler Panels Between Units

(Refer to Fig. 11 & 12)

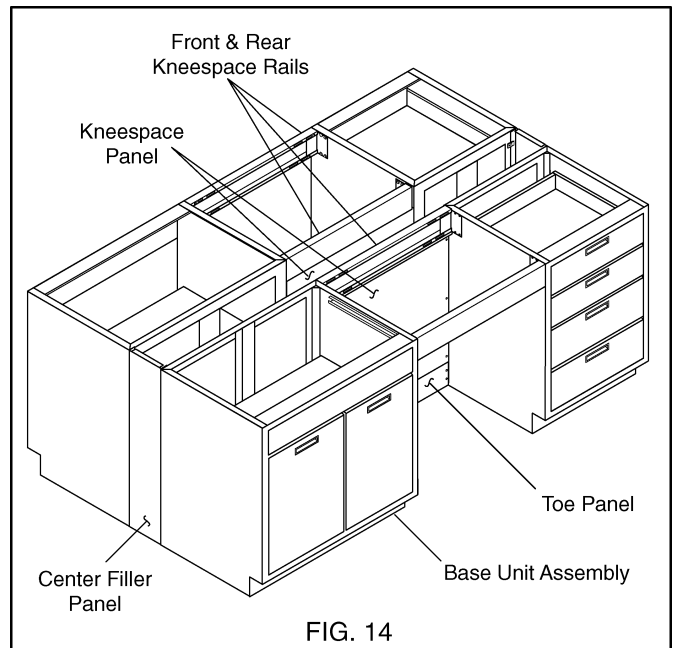
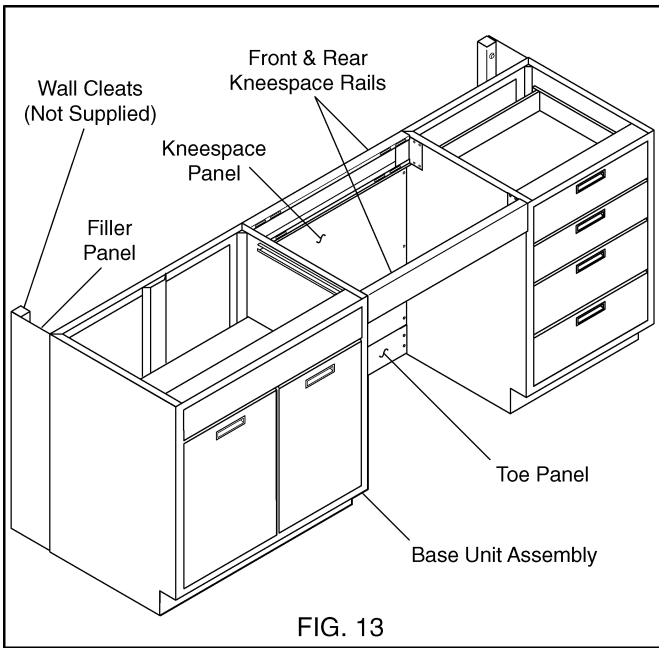
1. Center filler panels are used to fill an opening when two base units are placed back to back. This may occur if a top with more depth is required.
2. Again is recommended that the scribe clips (2) be attached to the base units (1) first.
3. Follow Steps 4-7 outlined in Section-G for attaching the center panels in a similar manner.
4. Slide the base units together leaving the required amount of space for insertion of the filler panels.
5. Make sure the base unit assembly is level. Insert the filler panels. (Fig. 12)



# Hamilton Steel Workstation Base Units

## J – Filler Panel and Kneespace Rail Identification

(Refer to Fig. 13 &14)



1. For easy identification of the various panels and rails described in this instruction, see page 6.
2. Most panels and kneespace rails for other base units and cabinets will be assembled in a similar fashion using the steps outlined in this assembly instruction.