

WORKMASTER SERIES
Part #1

REV. (022011)

IAC INDUSTRIES

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Workmaster
Assembly Instructions

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ATTENTION NOTES:

IAC Industries takes great care in the packaging of its products, however damage can occur during shipment. Check all packages and parts for any signs of damage. If damage is evident STOP and contact the carrier that delivered your order. Request a freight claim inspector to document the damage and begin the freight claim process.

Tools required to assemble your WM BENCH products are:

7/16" and 1/2" wrench or socket with ratchet.

Phillips screwdriver 8" long.

Utility knife.

Safety glasses and light duty protective gloves.

NOTE: Power tools are NOT recommended unless they are equipped with a torque limiting device which can limit the torque to 10 foot lbs maximum at aluminum attachment points, and 15 foot lbs maximum for all other attachment points.

Unpack your order and separate like parts into separate areas. Be careful not to damage parts as they are being moved around and put into position. Also be sure all parts are removed from the packing materials before these materials are thrown away.

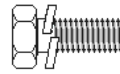
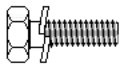
Locate the Hardware Kits and keep them in a central area. If the assembly is going to take more than one day, all individual hardware pieces should be returned to a central location.

Check all parts and Hardware Kits against the itemized packing list found with the assembly instructions. If you believe there are parts missing from your order please contact IAC Industries customer service HOTLINE at 800-989-1422.

If your order has ESD worksurfaces or accessories please review page 34 for helpful instructions and cautions before you begin assembling the workstations.

PRE ASSEMBLY CHECK LIST

Your bench has been carefully packed at the factory to prevent damage during shipment. Unpack all parts and examine them for damage. Contact your freight carrier for freight claims information if your order was shipped "freight collect" or "pre-pay and add". Contact IAC Industries at **800 989-1422** if parts are missing.



1/4-20x.75 Hex Head Bolt

1/4 Flat Washer

5/16-18x.75 Hex Head Bolt

Beam Connector Plate

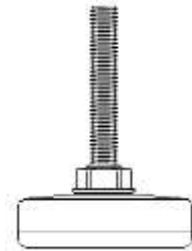
Description

Description	Qty
Worksurface	1
Pedestal Leg	2
Support Beam	2
Support Beam	2
Leg Extender	4

HARDWARE KIT #HWR001

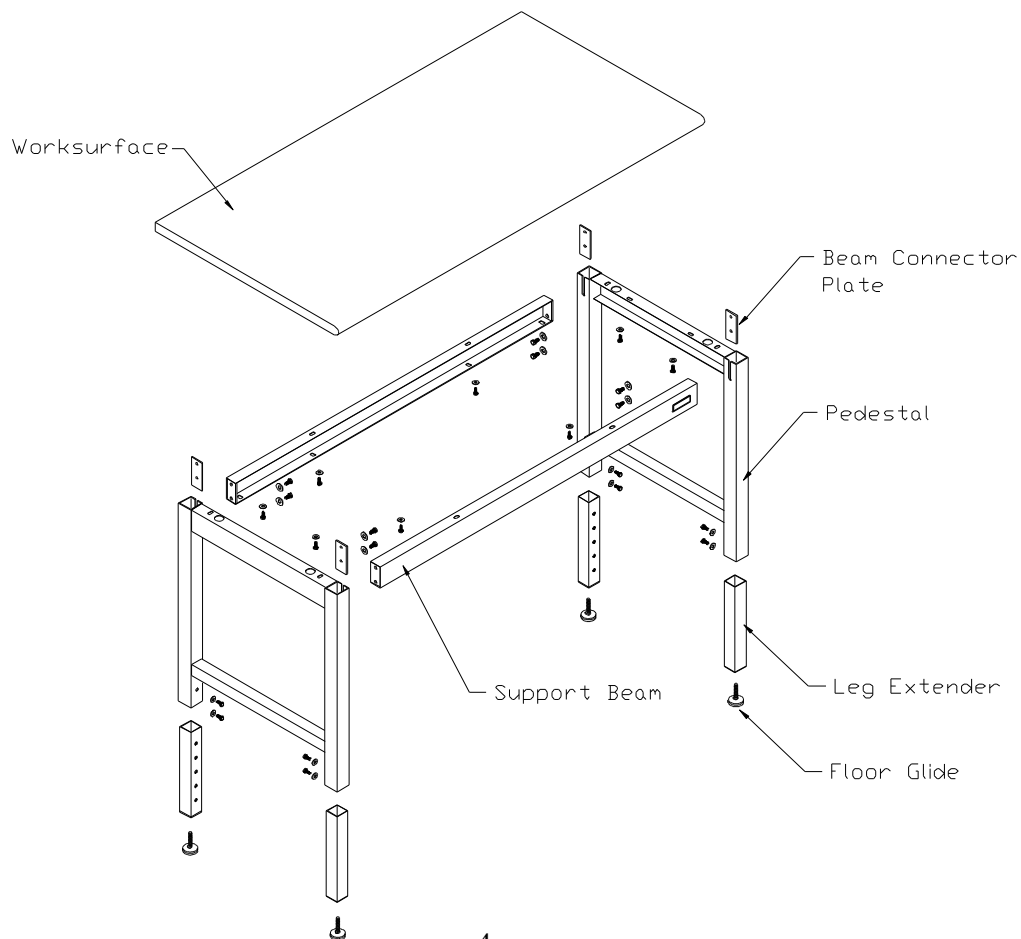
Description

Description	Qty
1/4-20 x .75" Hex Head Bolt	16
1/4 Flat Washer	24
5/16-18 x .75" Hex Head Bolt	8
Beam Connector Plate	4
Floor Glide	4



Floor Glide 5/16-18

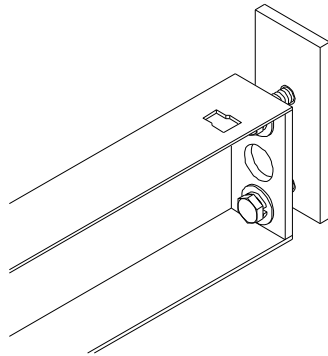
Workmaster E Series Bench Exploded View:



Workmaster E Series Bench Assembly:

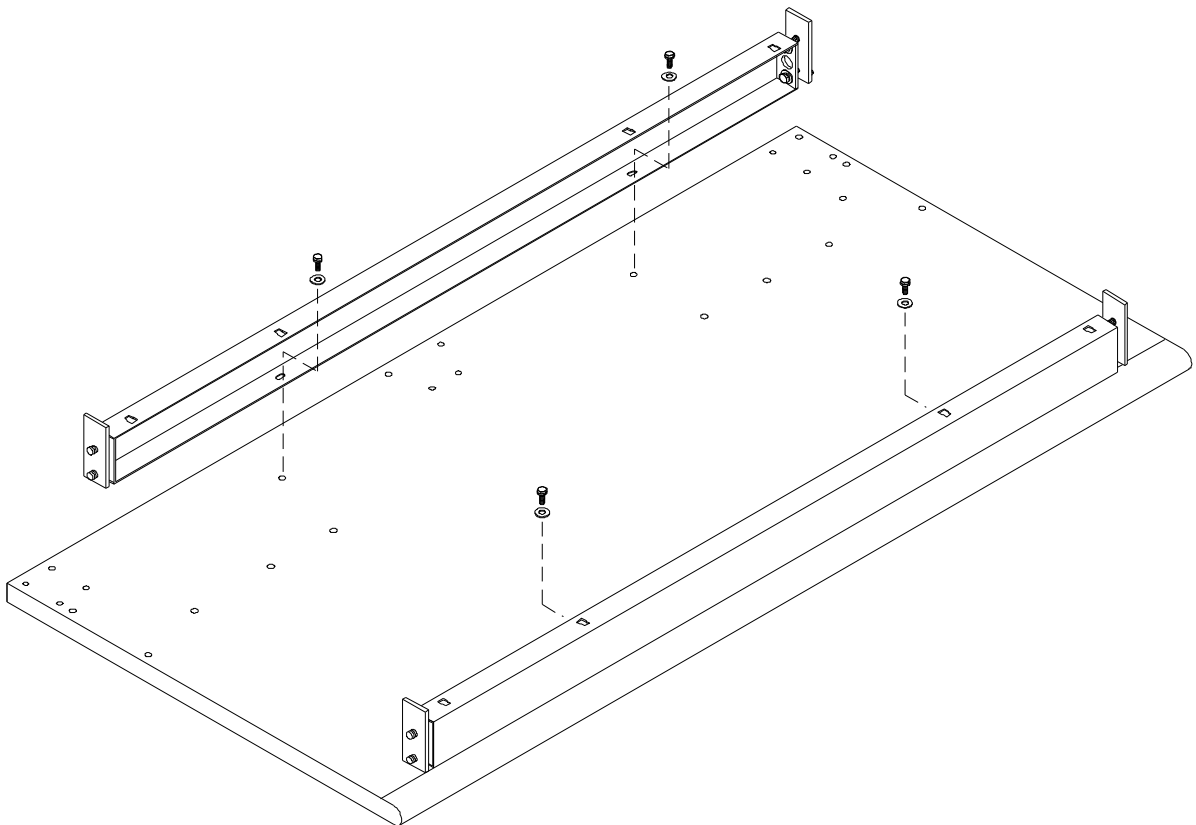
Step 1:

Attach beam connector plates to the ends of the bench support beams using the 5/16-18 x .75 hex head bolts and 1/4 flat washers supplied as shown. **DO NOT TIGHTEN THE HARDWARE.** If you have ordered a TE1 Electrical Channel it installs in the same way as the standard support beam and can be installed in the front or rear beam location.



Step 2:

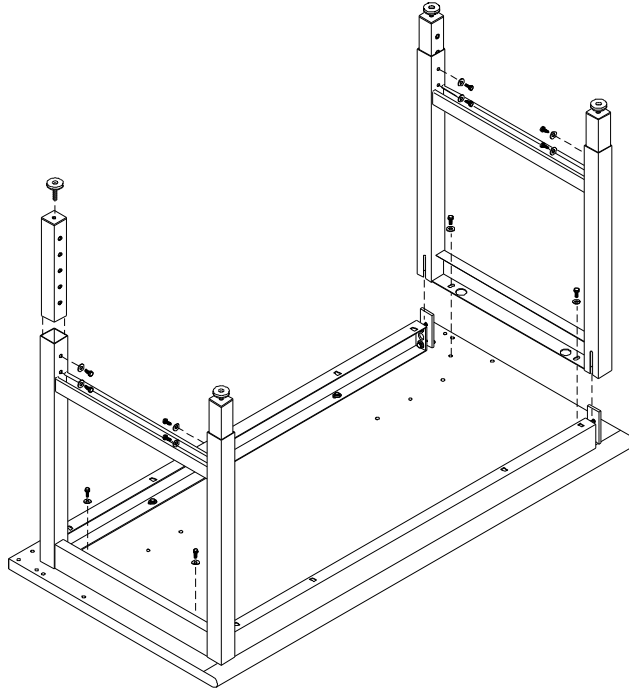
Place worksurface topside down on smooth flat surface being sure to protect it from damage by foreign objects. IAC recommends the use of packing type blankets or clean cardboard. Place the support beams on the worksurface with the open side toward the center of the worksurface and align the slots of the support beams over the threaded inserts in the worksurface as shown. Thread 1/4-20 x .75 hex head bolts and 1/4 flat washers into the threaded inserts to attach the beams to the worksurface. **DO NOT TIGHTEN THE HARDWARE.**



Workmaster E Series Bench Assembly:

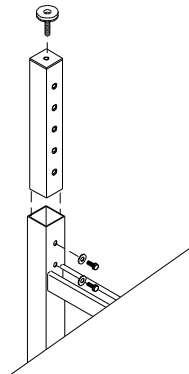
Step 3:

Align the workbench pedestals over the ends of the support beams and lower them down over the beam connector plates so that the plates are on the inside of the pedestal tubing. Align the slots in the pedestal support beam over the inserts in the worksurface and thread the 1/4-20 x .75 hex head bolts with the 1/4 flat washers into the inserts. Tighten the beam connector hardware. The frame should now be aligned on the worksurface to even the overhangs on the right and left sides tighten the beam attachment and the pedestal support hardware. NOTE: Do not over tighten the hardware that goes into the threaded inserts in the worksurface as this could cause the inserts to pull out of the worksurface.



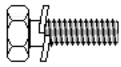
Step 4:

Slide the workbench leg extender into the pedestal tube making sure the plastic insert in the end of the leg extender is exposed. Align the threads of the leg extender with the holes in the pedestal tube and select the desired height of the bench. Thread the 1/4-20 x .75 hex head bolts with the 1/4 flat washers into the threaded holes in the leg extender and tighten. Thread the floor glide into the plastic insert of the leg extender. The floor glides are used to level the bench when assembly is complete and it is put into position.



If you have ordered footrests, drawers, lower shelves or suspended cabinets for this bench please see pages 15 thru 26 for assembly instructions. If not the workbench can be turned over for assembly of above the worksurface accessories or it can be put into place.

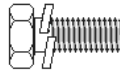
Workmaster E Series with Pedestal Cabinet Assembly:



1/4-20x.75 Hex Head Bolt



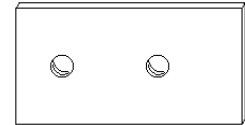
1/4 Flat Washer



5/16-18x.75 Hex Head Bolt

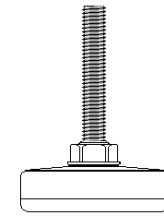


#14 X 1.00 Screw



Beam Connector Plate

Item	Description	Qty
1	Worksurface	1
2	Pedestal	1
3	Support Beam Assy (Front)	1
4	Support Beam Assy (Rear)	1
5	Leg Ext. 12L Sub-Assy	2
6	Cabinet Pedestal Sub-Assy	1



Floor Glide 5/16-18

HARDWARE KIT #HWR002

A	1/4-20x.75 Hex Head Bolt	16
B	1/4 Flat Washer	20
C	Hex Head Bolt 5/16-18	4
D	Floor Glide 5/16-18	6
E	Beam Connector Plate	2
F	Screw, #14 X 1.00 PPH SMS Black	4



Ratchet Plug Cap Black

HARDWARE KIT #HWR021

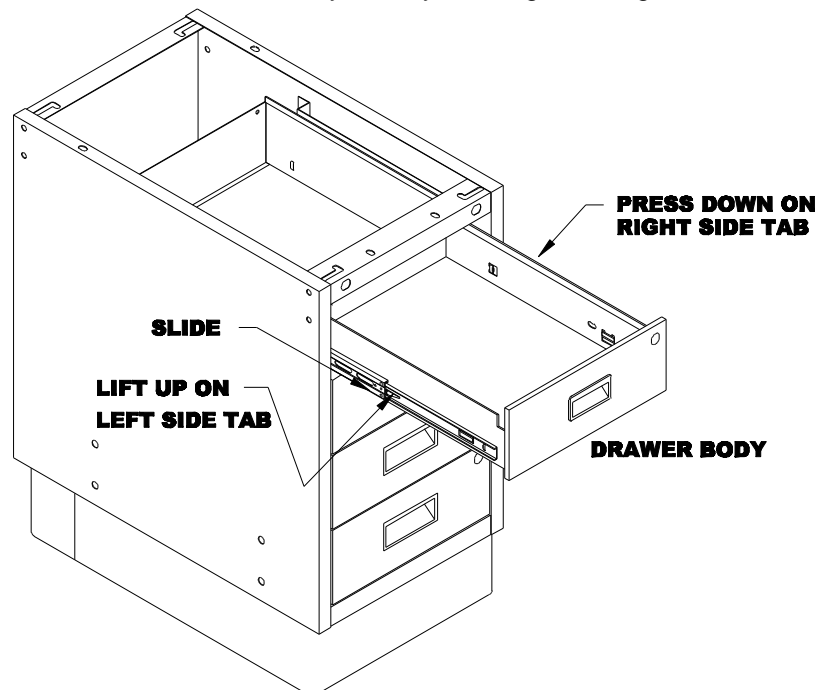
G	Ratchet Plug Cap Black	12
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Step 1:

To assemble the beams and pedestal to the worksurface follow the instructions on pages 5 and 6. Do not tighten hardware until the pedestal cabinet is in place and is aligned properly. Be sure to set the height of the leg extenders to match the height of the pedestal cabinet.

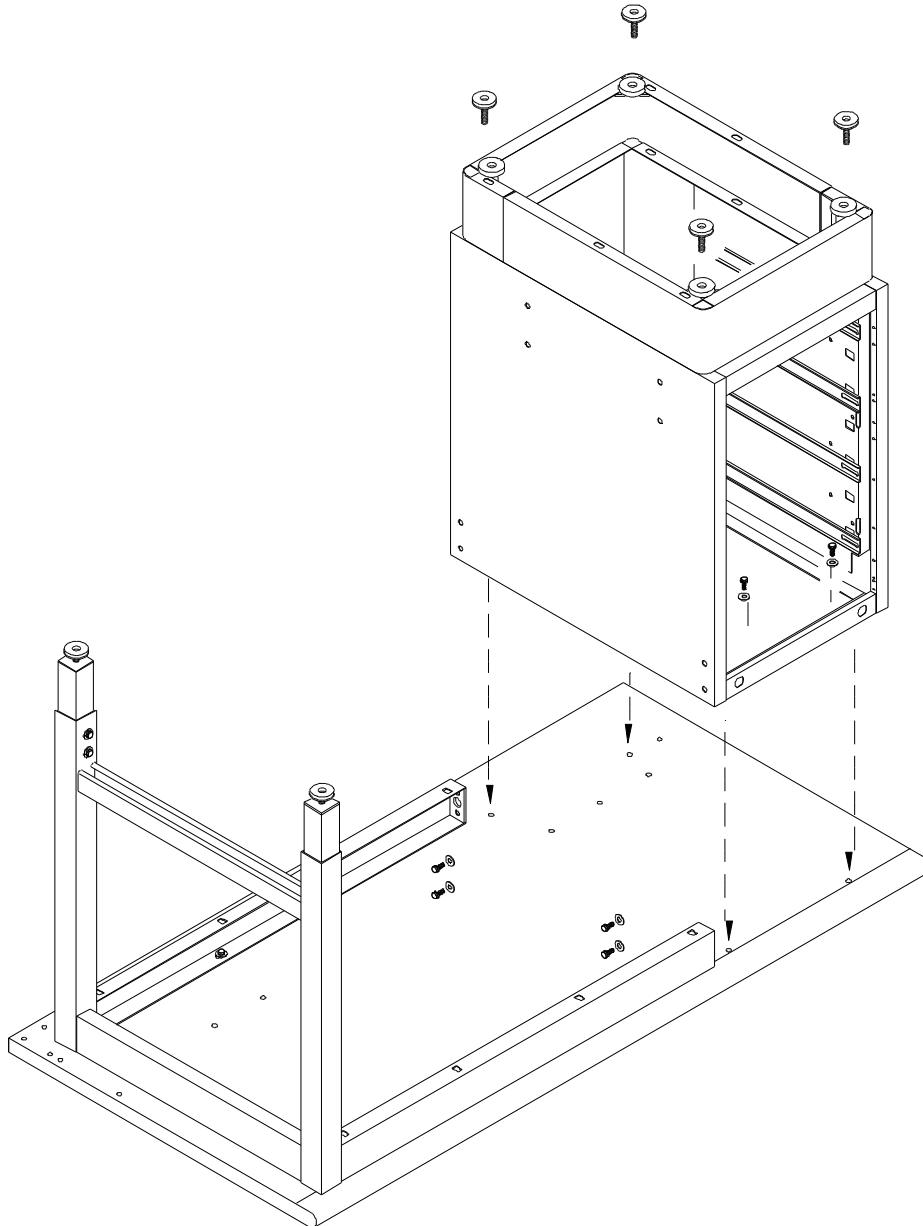
Step 2:

Remove all the drawer bodies of the pedestal cabinet by pulling them all the way out and depressing the plastic retainer clips found on each of the drawer slides. One clip will be pushed down and the other clip will be pulled up. Set the drawers aside carefully so they do not get damaged.



Step 3:

Carefully turn the pedestal cabinet up side down and position it onto the worksurface and align it with the support beams and the inserts in the worksurface. Attach the pedestal cabinet to the support beams using four #14 X 1.00 screws and 1/4 flat washers and attach the worksurface using the 1/4-20 x .75 hex head bolts and 1/4 flat washers as shown. Tighten all hardware at this time being sure not to over tighten the bolts going in the inserts in the worksurface. If you have purchased items such as footrests, lower metal shelves or CPU holders please see pages 17- 26 for assembly instructions.



Step 4:

Install floor glides into pedestal cabinet base. With the help of at least another person carefully roll the workbench right side up. Install the drawer bodies into the pedestal cabinet in their original locations.

Step 5:

Use the Ratchet Plug Caps found in hardware kit 021 to cover all open holes in the cabinet.

Workmaster C Series 2 Pedestal Cabinet Assembly:

Item	Description	Qty
1	Worksurface	1
2	Support Beam Assy Front	1
3	Support Beam Assy Rear	1
4	Cabinet Pedestal Sub-Assy	2

HARDWARE KIT #HWR006

A	1/4-20x3/4" Hex Head Bolt	20
B	1/4 Flat Washer	20
C	Floor Glide 5/16-18	8
D	Screw, #14 X 1.00 PPH SMS Black	8

HARDWARE KIT #HWR021

E	Ratchet Plug Cap Black	12
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Step 1:

Place worksurface topside down on smooth flat surface being sure to protect it from damage by foreign objects. IAC recommends the use of packing type blankets or clean cardboard. Refer to page 7 Step 2 for instructions to removed the drawers from the pedestal cabinets.

Step 2:

Carefully turn the pedestal cabinets up side down and position them onto the worksurface and align them with the inserts in the worksurface. Attach the pedestal cabinets to the worksurface using the 1/4-20 x .75 hex head bolts and 1/4 flat washers as shown. Do not tighten hardware at this time.

Step 3:

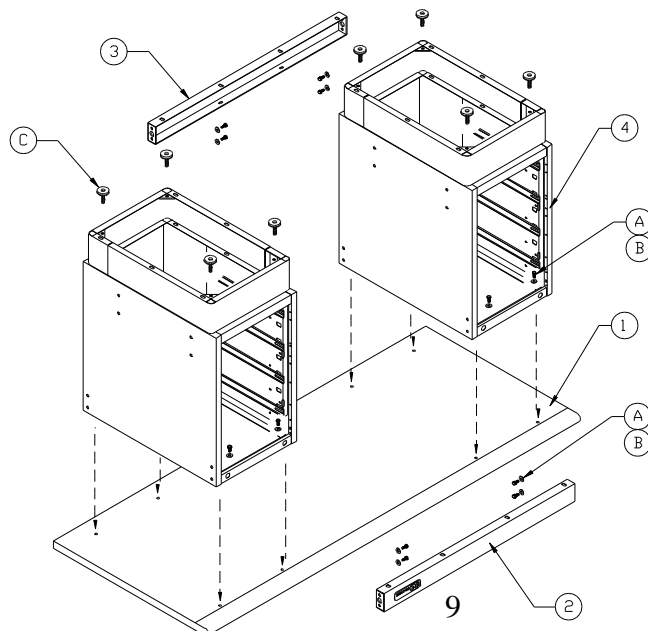
Install the support beams to the pedestal cabinets using the #14 X 1.00 screws and 1/4 flat washers as shown. Adjust the position of the pedestal cabinets making sure the overhang of the worksurface is equal on each end. Tighten hardware at this time being sure not to over tighten the bolts attaching the pedestal cabinets to the worksurface. If you have purchased items such as footrests, lower metal shelves or CPU holders please see pages 17-26 for assembly instructions.

Step 4:

Install floor glides into pedestal cabinet base. With the help of at least another person carefully roll the workbench right side up. Install the drawer bodies into the pedestal cabinets in their original locations.

Step 5:

Use the Ratchet Plug Caps found in hardware kit 021 to cover all open holes in the cabinets.



Workmaster TE2 Electrical Channel

Item	Description	Qty
1	TE2 Electrical Channel	1

HARDWARE KIT HWR028

A	1/4-20 X .75 Hex Head Bolt	4
B	1/4 Flat Washer	4

Step 1:

Remove the 1/4-20 x .50 self-threading phillips screws that are installed in the back of the TE2 Electrical Channel and use them to attach the TE2 mounting brackets as shown.

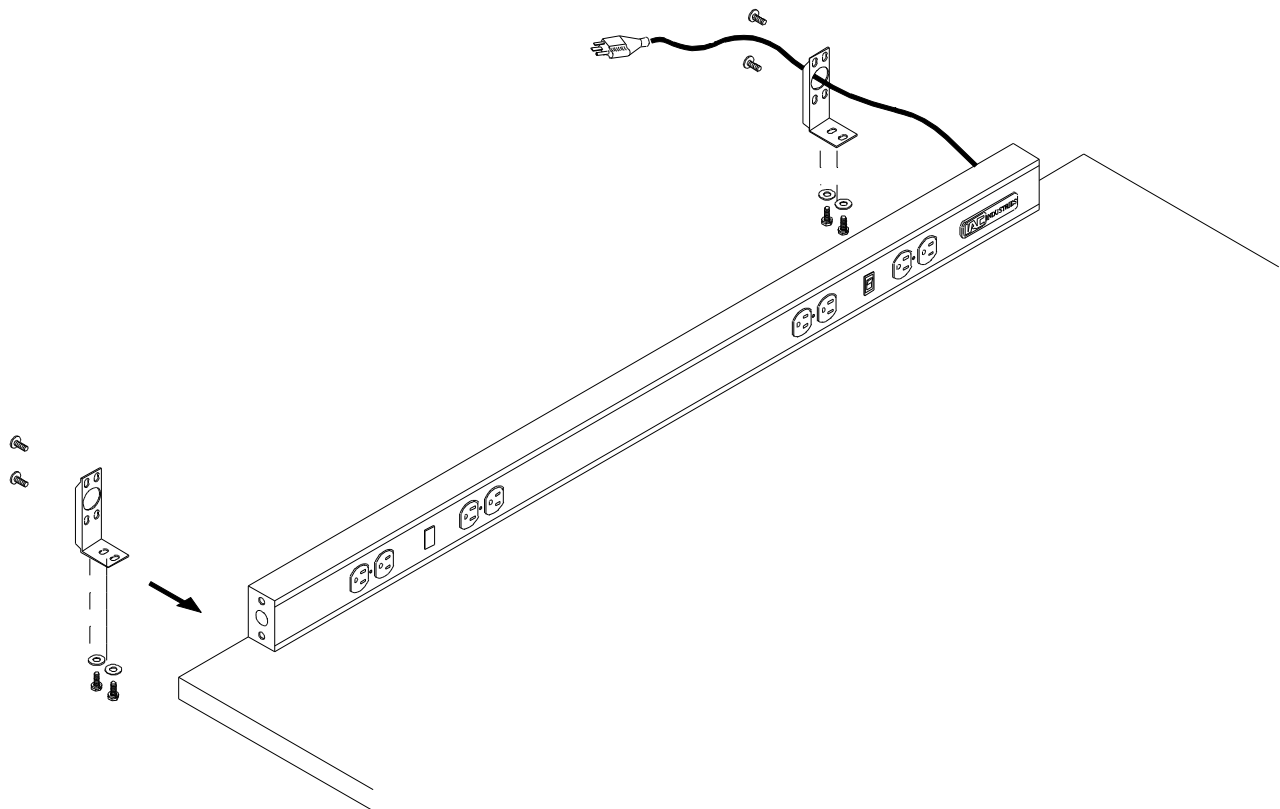
Please Note: Maple Top Upgrades use a longer mounting bracket, same hardware and is found in HWR086

Step 2:

Slide the TE2 Electrical Channel over the top of the back edge of the worksurface. Attach the TE2 mounting brackets to the worksurface by threading the 1/4-20 x .75 hex head bolts with the 1/4 flat washers into the inserts in the underside of the worksurface.

Step 3:

Tighten the 1/4-20 x .75 hex head bolts and then the 1/4 x .50 self-threading phillips screws while holding the TE2 channel in place.



Workmaster Instrument Shelf



Item	Description	Qty
1	Instrument Shelf	1
2	Support Beam Assy Front	1
3	Riser Boxes	2

HARDWARE KIT HWR133

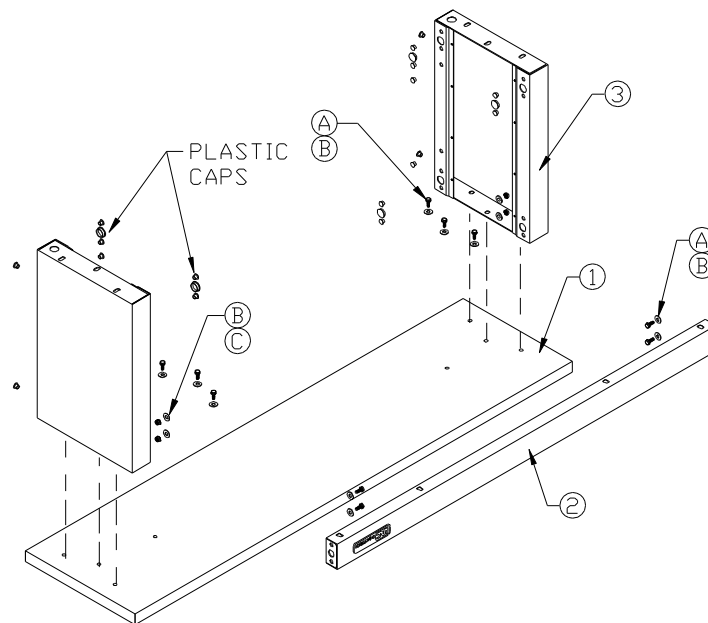
A	1/4-20 X .75 Hex Head Bolt	20
B	1/4 Flat Washer	28
C	1/4-20 Hex Head Keps Nut	8
D	#8 X .375 PHP Screw	16
E	Plug Cap .875 Dia Black	6
F	Plug Cap .375 Dia Black	16
G	Plug Cap .500 Dia Black	4

Step 1:

Place the instrument shelf upside down on smooth flat surface being sure to protect it from damage by foreign objects. IAC recommends the use of packing type blankets or clean cardboard. Place the riser boxes onto the instrument shelf aligning the slots in the riser boxes with the threaded inserts in the instrument shelf as shown. Thread 1/4 X .75 hex head bolts and 1/4 flat washers into the threaded inserts and hand tighten.

DO NOT TIGHTEN THIS HARDWARE. NOTE: If you have ordered electrical options such as SE1, SE2 or SE3 please use the Assembly Instructions electrical option instructions.

Workmaster
Part 2 for
installation



Step 2:

Connect the support beam to the riser boxes using the 1/4-20 X .75 hex head bolts 1/4 flat washers and 1/4-20 hex keps nuts. Align support beam-ends with holes in riser boxes and feed bolts through the support beam-ends plate and the holes in the riser boxes. Attach the hex keps nuts to bolts on the inside of riser boxes and hand tighten. Align the riser boxes to even the overhangs and then tighten all riser box attachment hardware being careful not to over tighten hardware going into the inserts in the instrument shelves. Install the

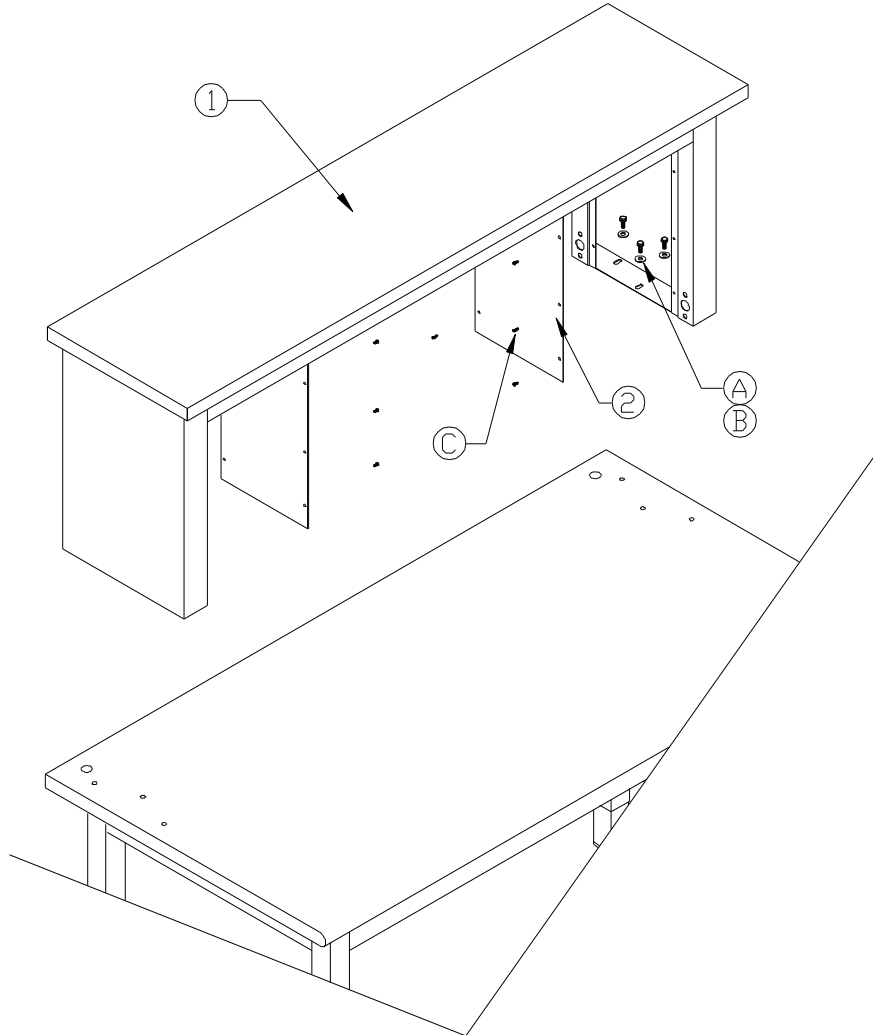
plastic cap plugs that apply. **Note:** If you are assembling a 96" instrument shelf you will have a second support beam that will be mounted in rear of the shelf the same as in the front.

Note: If you are installing an Undershelf Light please see page 13 & 14 at this time.

Step 3:

Carefully turn instrument shelf over and align the holes on the bottom of riser boxes with the inserts in the instrument shelf. Attach the riser boxes with the 1/4-20 x .75 hex head bolts and 1/4 flat washers as shown. Tighten hardware at this time being careful not to over tighten the hardware going into the inserts in the instrument shelf.

If you have ordered Upper Bin Panels please see page 32 before going onto Step 3. If you have ordered riser electrical panels and/or instrument shelf electrical channels see Part 2 of the assembly instruction packet for wiring instructions.



Step 4:

Align the riser covers holes with the holes in the riser box and thread #8 x .375 screws item D into each hole. Tighten at this time.

Step 5:

Install plug caps items E, F, G to all open holes on the riser boxes.

WM Undershelf Light



SCREW, PPH
1/4-20 x 5/8"



1/4 - 20
FLAT WASHER

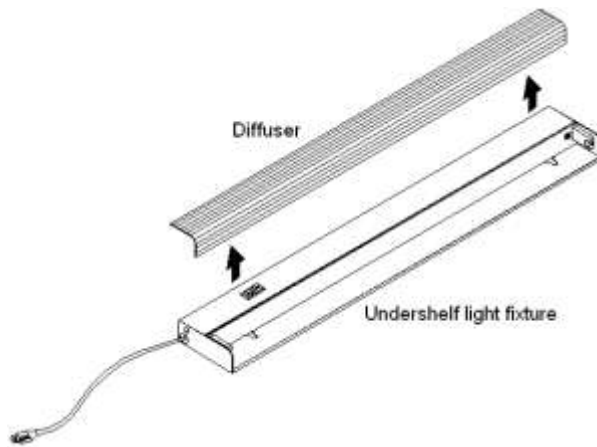
Item	Description	Qty
1	Under shelf Light	1

HARDWARE KIT HWR048

A	1/4-20 X .625 Phillips Head Screw	2
B	1/4 Flat Washer	2

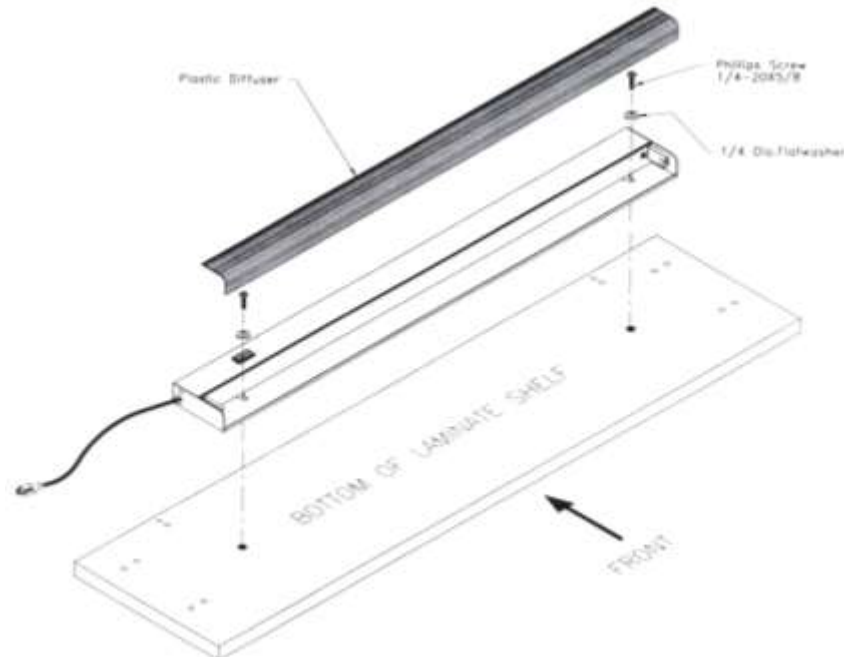
Step 1:

Carefully remove the plastic diffuser to expose the inside of the light housing.



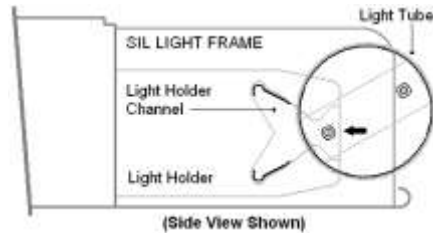
Step 2:

Align the slots in the light housing over the inserts in the underside of the instrument shelf. Thread 2 each 1/4-20 x .625 phillips screws item A with 1/4 flat washers item B in the inserts in the shelf and tighten.



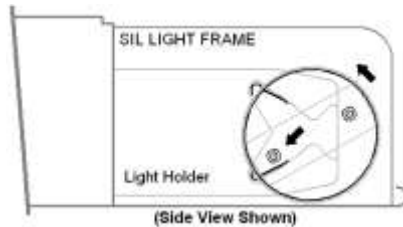
Step 3:

Install only the IAC recommended light tubes for these light fixtures. For the 36" light fixture the recommended light tube is F25 T8. For the 48" light fixture the recommended light tube is F32 T8. Install the light tube into the light tube holders located at each end of the light fixture by inserting one of the two pins on each end of the light tube into the channel of light tube holders.



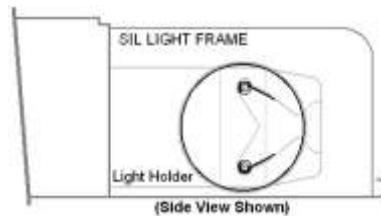
Step 4:

Insert the second pin of the light tube in the channel of the light tube holders and slowly turn the light tube into the channels as shown.



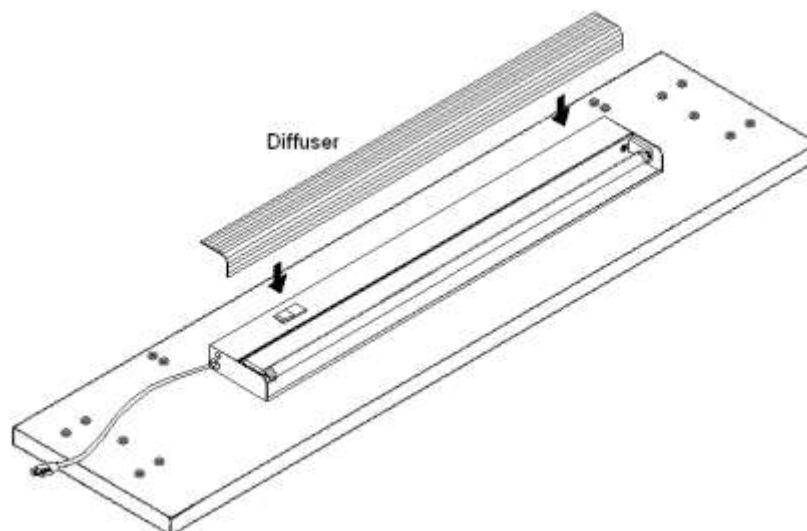
Step 5:

Rotate the light tube into the light tube holders being sure both pins of the light tube are in the light tube holder channels until the light tube locks into place. Double check the installation to make sure all four pins of the light tube are in the light tube holders.

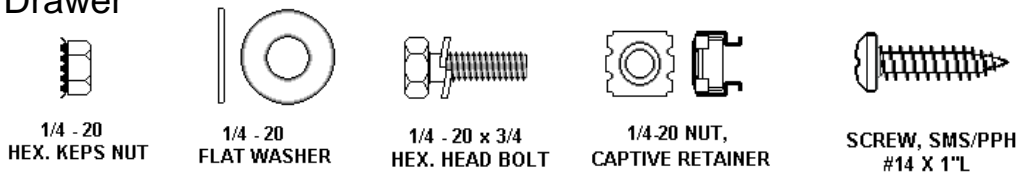


Step 6:

Carefully reinstall the diffuser into the under shelf light fixture taking care not to force it into place as this could cause it to break.



Single Drawer



Item	Description	Qty
1	Drawer Hanger Bracket	1

HARDWARE KIT HWR015

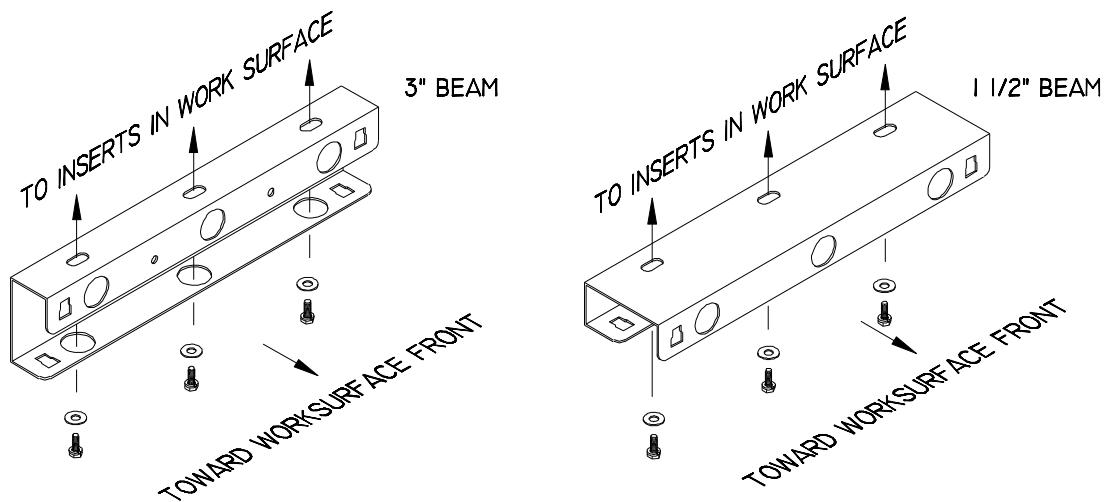
A	1/4-20 Hex Keps Nut	4
B	1/4 Flat Washer	8
C	1/4-20X.75 Hex Head Bolt	7
D	1/4-20 Captive Retainer Nut	4
E	#14 X 1.00 PPH Screw	3

Note: Applies to all drawer and suspended cabinet configurations.
It is best to install drawer bracket and drawer(s) while bench in upside down.

Step 1:

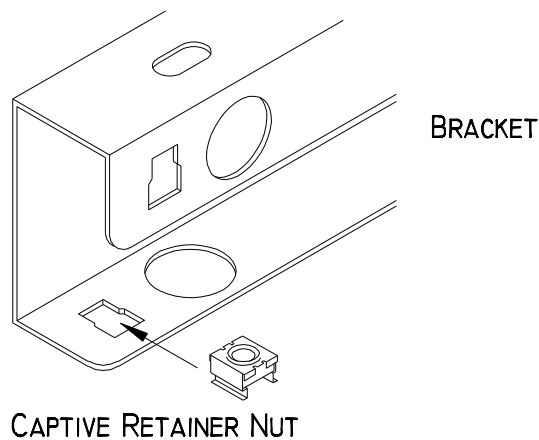
Install rear mounting bracket to worksurface as shown on below using hardware listed above.

Note: The position of your bracket will be determined by the size of your front beam.



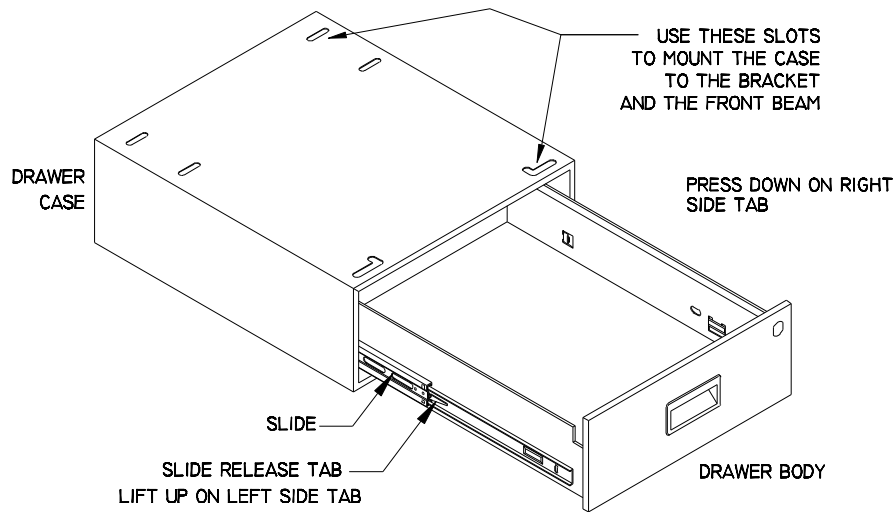
Step 2:

Install the captive retainer nuts into the drawer mounting bracket and the bench front beam as shown below.



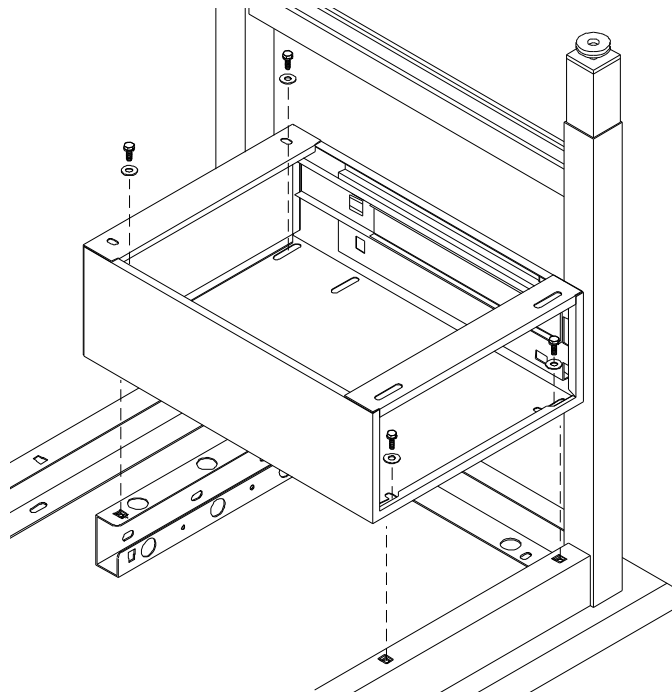
Step 3:

Remove drawer from drawer case by pulling the drawer body out of the case. Locate the slide release tabs. Lift up on the left side tab and press down on the right side tab and pull on drawer body.



Step 4:

With the drawer removed from the case, place the case over the front beam and the drawer mounting bracket as shown. Use supplied hardware to fasten.



Note: To double stack drawers use bolts washer and nuts supplied in Hardware Kit to attach the stacked drawer case to the first case.

Workmaster Footrest Tube

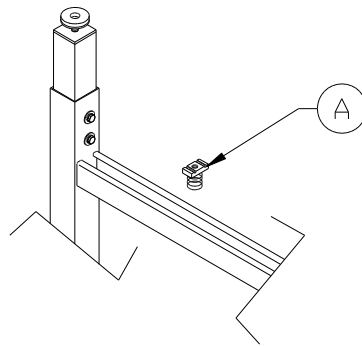
Item	Description	Qty
1	Footrest Tube	1

HARDWARE KIT HWR008

A	Nut, 1/4-20 Unistrut Long Spring	2
B	Washer, 1/4 ETL Black	2
C	Washer, 1/4 Flat Black	2
D	Bolt, 1/4-20 X 1.00 HH Black	2

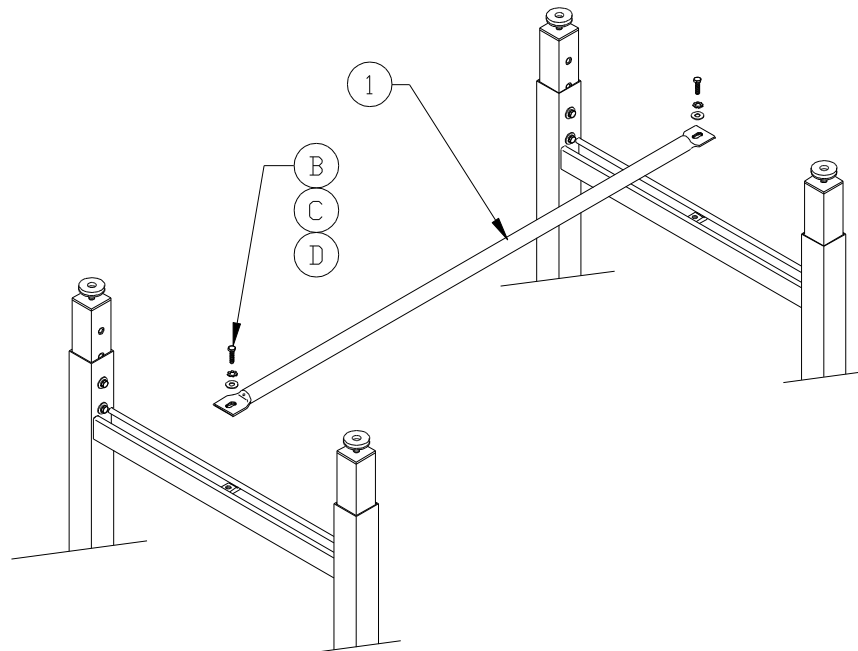
Step 1:

Install the unistrut nut item A into the pedestal leg assembly channel by first aligning the nut with the opening of the channel then pushing it into the pedestal channel compressing the spring. Rotate the nut clockwise and release the tension on the spring. The unistrut nut can be moved forward and backward to adjust the location of the footrest in relationship to the front of the bench.



Step 2:

Align the slots in the ends of the footrest tube over the unistrut nuts in the pedestal channels and attach it using 1/4-20 X 1.00 hex head bolt, 1/4 star washer, and 1/4 flat washer as shown. The footrest can be adjusted forward and backward to fit the operator's needs. Tighten hardware.

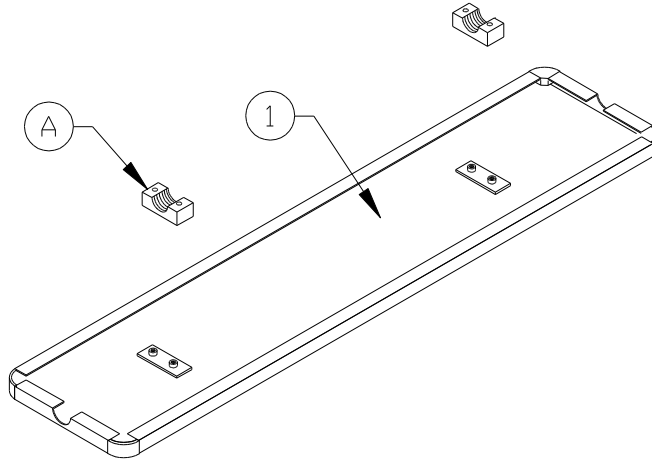


Workmaster Ergo Footpan

Item	Description	Qty
1	Footrest Pan	1
HARDWARE KIT HWR269		
A	Tube Clamp, 1.000 DIAMETER Black	2 sets
B	Screw, 1/4-20 X 1.125 Socket Head Black	4

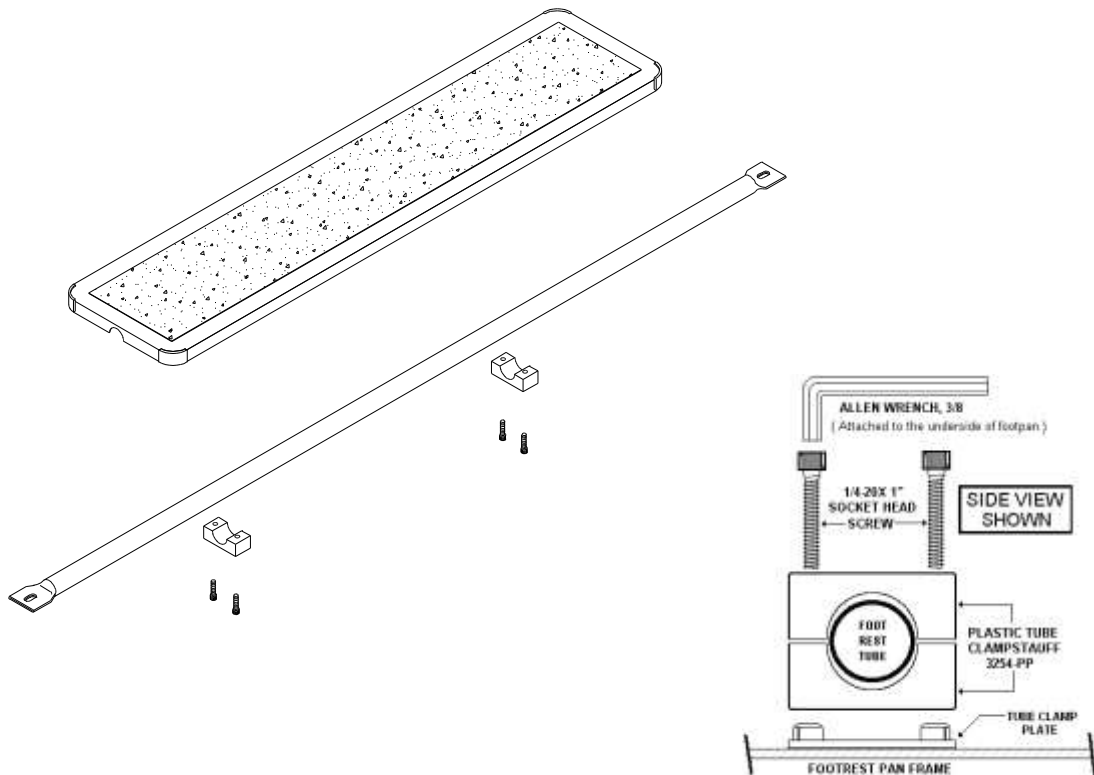
Step 1:

Install tube clamps item A over the nut plates on the underside of the footpan as shown.



Step 2:

Install footpan to footrest tube by placing the tube clamps over the tube and attaching it using the tube clamps and 1/4-20 X 1.125 socket head screws as shown. Using the Allen wrench supplied tighten the tube clamps until the footpan rotates on the footrest tube as desired.



Workmaster Footrest Tube One Cabinet

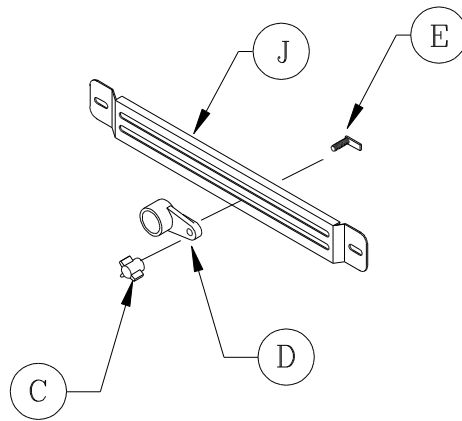
Item	Description	Qty
1	Footrest Tube One Cabinet	1

HARDWARE KIT HWR108

A	Bolt, 1/4-20 X .75 HHW Black	2
B	Washer, 1/4 Flat Black	3
C	Knob Tri-Wheel 1/4-20 Insert Small	1
D	Footrest Keeper Black Plastic	1
E	Weld Stud 1/4-20 X .75 Right Angle	1
F	Nut 1/4-20 Unistrut Long Spring	1
G	Bolt, 1/4-20 X 1.00 HHD Black	1
H	Screw, #14 X 1.00 PPH SMS Black	1
J	Cabinet Footrest LMS Bracket	1

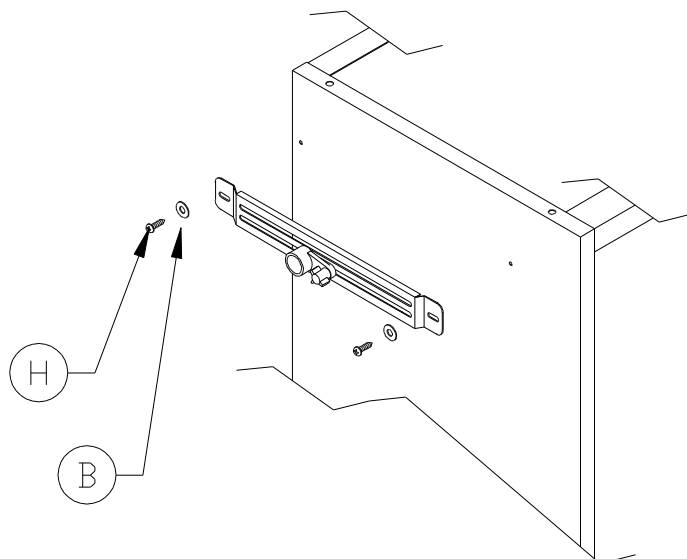
Step 1:

Install the weld stud item E from the inside into the cabinet footrest LMS bracket item J, and install the footrest keeper item D and knob tri-wheel item C so that they are on the lower slot of the cabinet footrest LMS bracket as shown. Hand tighten the knob so that the footrest keeper is snug against the bracket.



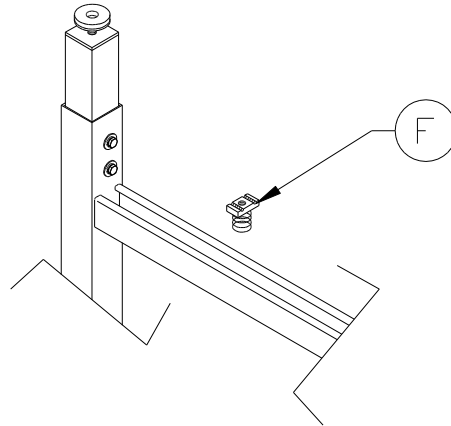
Step 2:

Attach the bracket assembly to the side of the cabinet using two phillips screws item H and two 1/4 flat washers item B. Be sure the footrest keeper is positioned in the lower slot of the bracket. When the bench is turned over onto its pedestals the keeper will be in the upper slot of the bracket. Tighten the phillips screws.



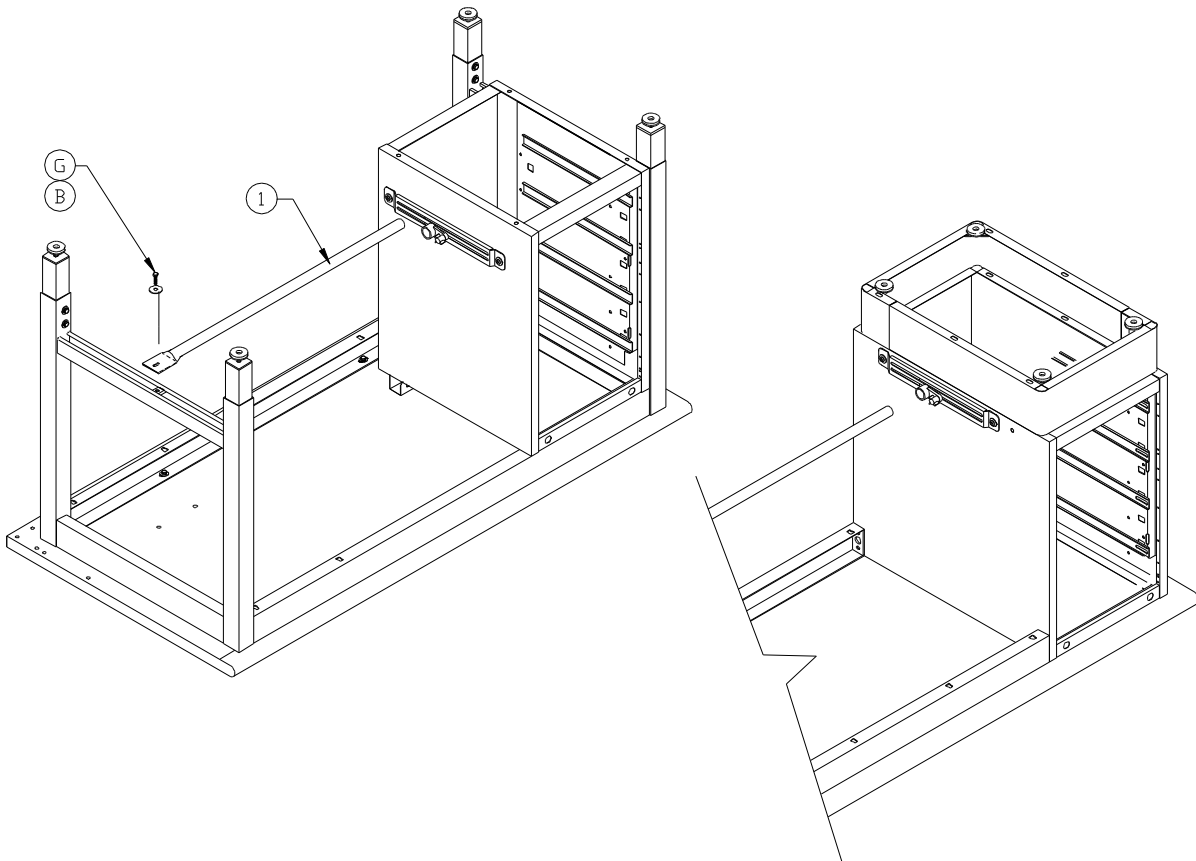
Step 3:

Install the unistrut nut item F into the pedestal leg assembly channel by first aligning the nut with the opening of the channel then pushing it into the pedestal channel compressing the spring. Rotate the nut clockwise and release the tension on the spring. The unistrut nut can be moved forward and backward to adjust the location of the footrest in relationship to the front of the bench. The footrest keeper in the bracket attached to the cabinet must be aligned with the location of the unistrut nut in the pedestal channel.



Step 4:

Install the footrest tube item 1 by inserting the round end into the footrest keeper item D then placing the flat end across the pedestal channel. Attach the footrest tube to the pedestal using the 1/4-20 X 1.00 bolt item G and one 1/4 flat washer item B. The location of the footrest can be adjusted forward and back to fit the operators needs.



Workmaster Footrest Tube Two Cabinets

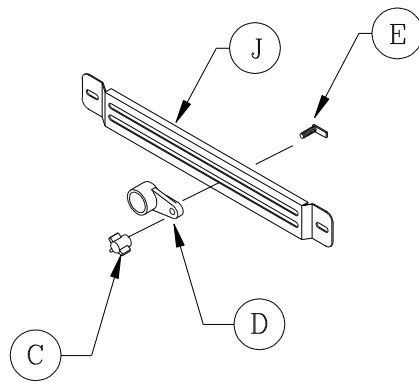
Item	Description	Qty
1	Footrest Tube with 2 Cabinet	1

HARDWARE KIT HWR108

A	Bolt, 1/4-20 X .75 HHW Black	4
B	Washer, 1/4 Flat Black	4
C	Knob Tri-Wheel 1/4-20 Insert Small	2
D	Footrest Keeper Black Plastic	2
E	Weld Stud 1/4-20 X .75 Right Angle	2
F	Screw, #14 X 1.00 PPH SMS Black	4
J	Cabinet Footrest LMS Bracket	2

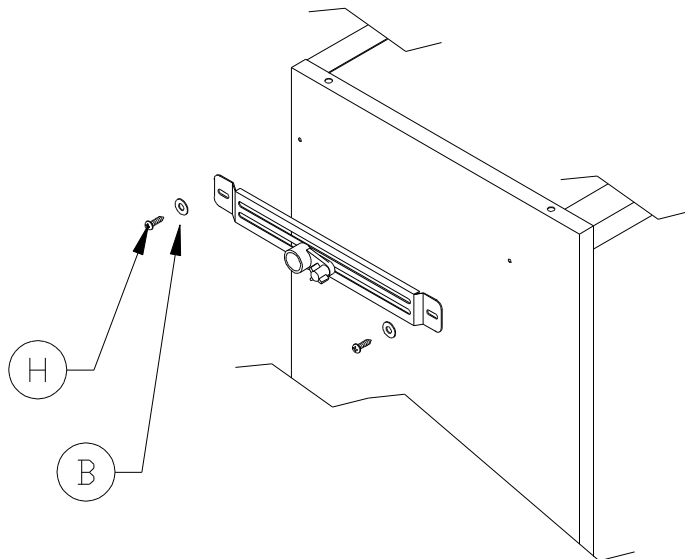
Step 1:

Install the weld stud item E from the inside into the cabinet footrest LMS bracket item J, and install the footrest Keeper item D and knob tri-wheel item C so that they are on the lower slot of the cabinet footrest LMS bracket as shown. Hand tighten the knob so that the footrest keeper is snug against the bracket.



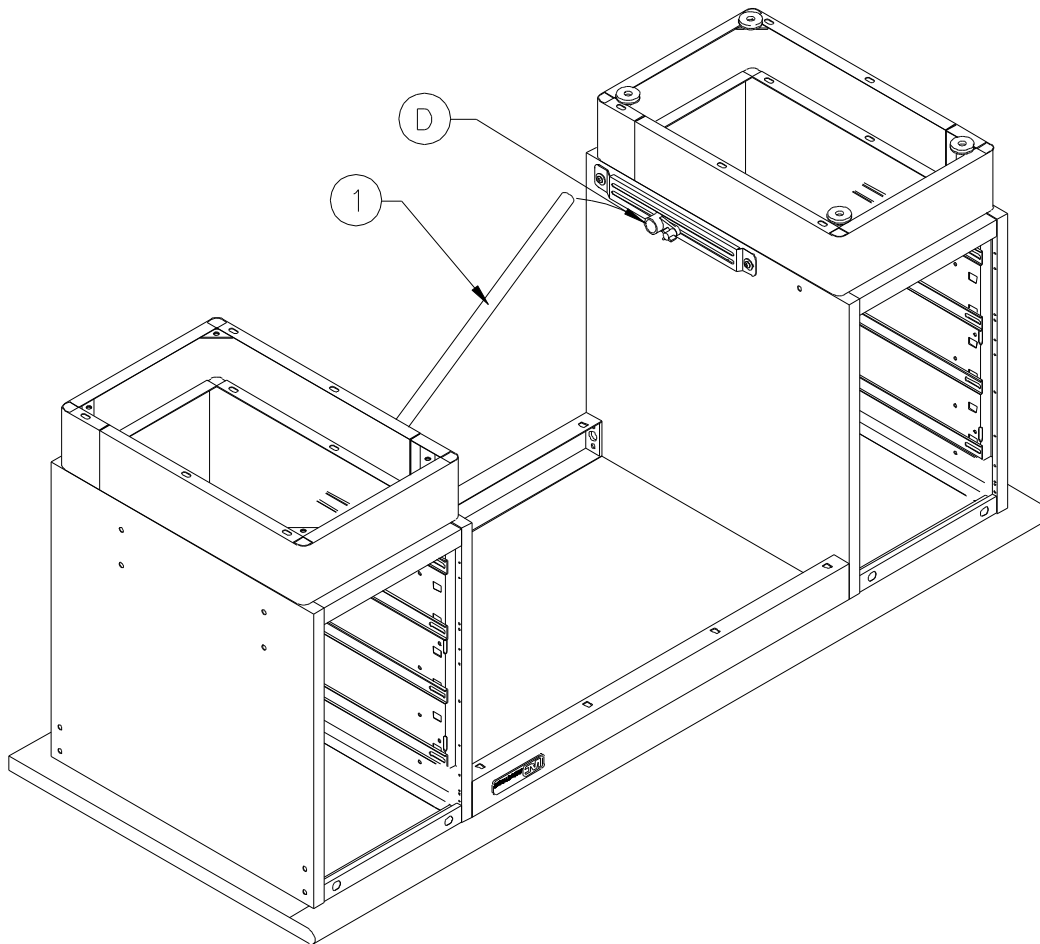
Step 2:

Attach the bracket assembly to the sides of each cabinet using two phillips screws item H and two 1/4 flat washers item B. Be sure the footrest keeper is positioned in the lower slot of the brackets. When the bench is turned over onto its pedestals the keeper will be in the upper slot of the brackets. Tighten the phillips screws.



Step 3:

Install the footrest tube item 1 by inserting one end into one of the footrest keepers item E. Insert the other end of the footrest tube by sliding the footrest keeper far enough along the slot in the bracket so that the tube can be angled into the keeper. Then slide the keeper and the footrest tube so that it is parallel with the front edge of the bench and in the desired location for the operator's needs. Tighten the knob tri-wheels to lock the footrest in place. Note: Drawing shows pedestal cabinets. Assembly for suspended cabinets is the same.



Lower Metal Shelf

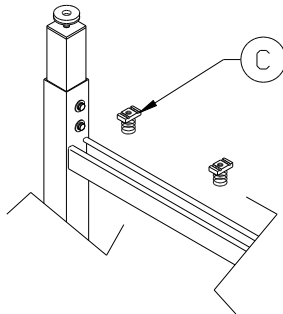
Item	Description	Qty
1	Lower Metal Shelf	1

HARDWARE KIT HWR072

A	1/4-20 X 1.000 Hex Head Bolt	4
B	1/4 Fender Washer	4
C	Unistrut Nut 1/4-20	4

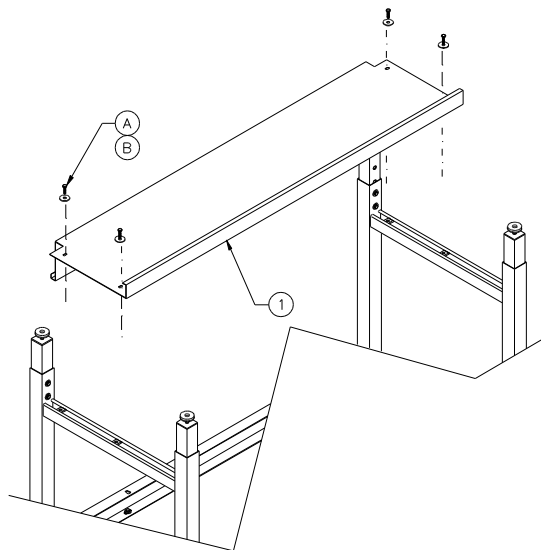
Step 1:

Install the unistrut nuts item E into the pedestal leg assembly channels by first aligning the nuts with the channel then pushing them into the pedestal channel compressing the spring. Then rotate the nuts clockwise and release them to lock into place. The unistrut nuts can be moved forward and backward to adjust to location of the lower metal shelf in relationship with the front edge of the bench.



Step 2:

Attach the lower metal shelf by installing the 1/4-20 X 1.00 hex head bolts and 1/4 flat washers through the slots in the lower metal shelf into the unistrut nuts in the pedestal channels. The lower metal shelf can be positioned forward and backward to fit the operator's needs.



Step 3

At this point the bench assembly is fairly heavy. Be sure that no assemblers are injured in the process of turning the bench over onto its pedestal leg assemblies. Turn the bench over onto its pedestal leg assemblies being very careful not to damage the worksurface by either dropping it or by pulling on the pedestal legs too hard. When the bench is turned over continue the assembly process.

Workmaster Lower Metal Shelf One Suspended or Pedestal Cabinet

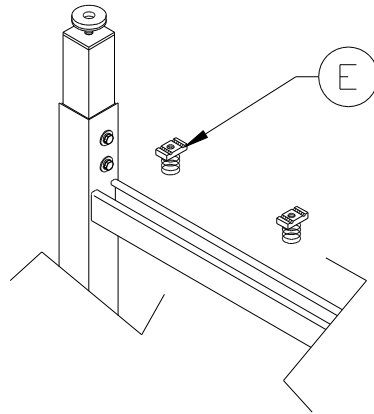
Item	Description	Qty
1	Lower Metal Shelf 1 Suspended Cab	1

HARDWARE KIT HWR146

A	Bracket, Cab Footrest LMS	1
B	Screw, #14AB x .625 PPH SMS Black	2
C	1/4 Flat Washer	6
D	Bolt 1/4-20 x 1.00 Hex Head Black	2
E	Nut, Unistrut 1/4-20	2
F	Nut, 1/4-20 Hex Keps Black	2
G	Weld Stud 1/4-20 X .75 Right Angle	2

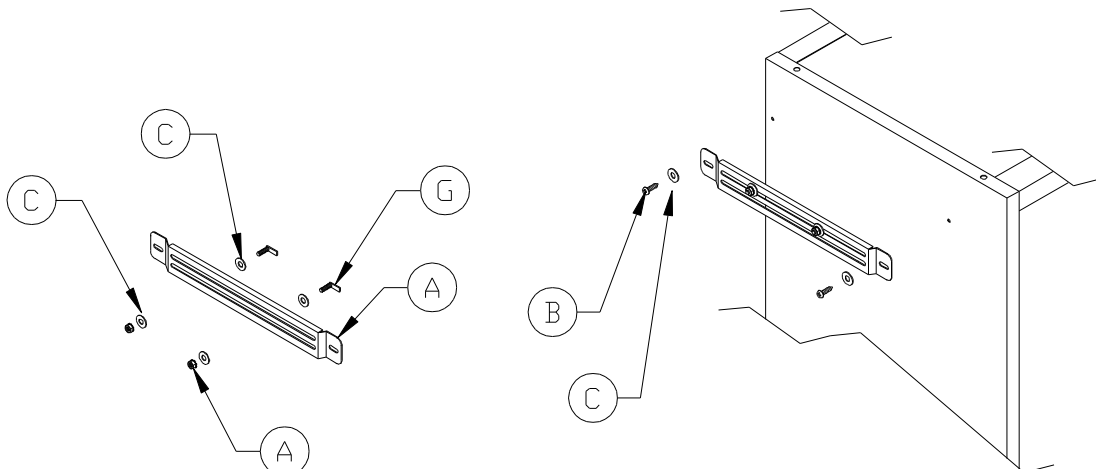
Step 1:

Install the unistrut nuts item E into the pedestal leg assembly channels by first aligning the nut with the channel, then pushing it into the pedestal cross channel compressing the spring, then rotate the nut clockwise and releasing it to lock into place. The unistrut nuts can be moved forward and backward to adjust to location of the lower metal shelf in relationship with the front edge of the bench.



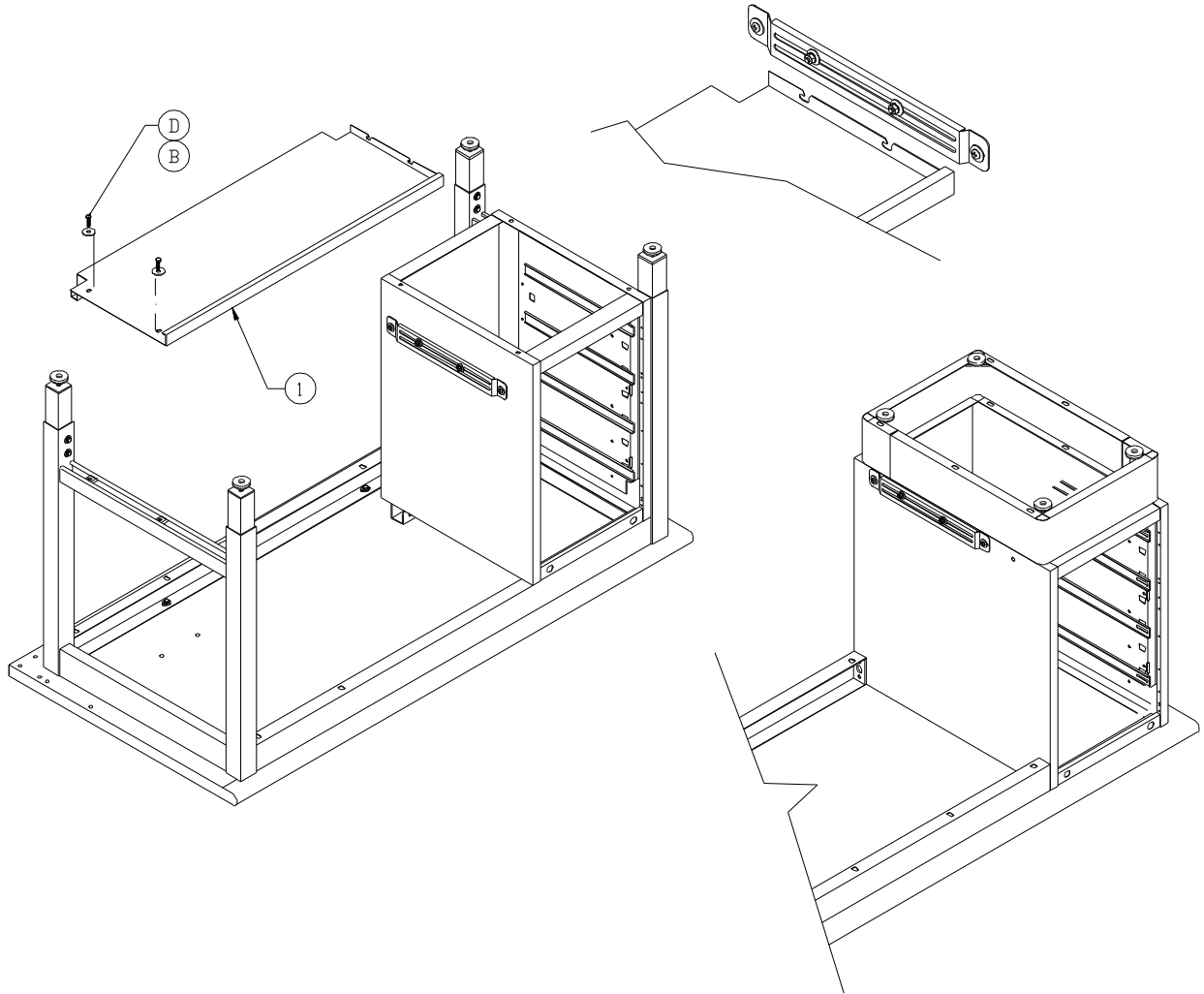
Step 2:

Install the weld studs item G, 1/4 flat washers item C, and 1/4-20 hex keps nuts item F into the cabinet footrest LMS bracket as shown below on the right. Do not tighten the hardware. Attach the bracket assembly to the side of the cabinet using the phillips screws item B and 1/4 flat washers item C. Be sure the weld studs are positioned so that they will be in the lower slot of the bracket when the bench is turned over onto its pedestals. Tighten the phillips screws.



Step 3:

Place the lower metal shelf between the pedestal leg assembly and the cabinet and rest one end on the pedestal cross channel. Lower the opposite end of the lower metal shelf so that the slots at that end can be aligned with the hardware installed in the cabinet footrest LMS bracket. Lift the lower metal shelf into place and adjust the hardware into the slots and hand tighten so that the shelf will hang on the hardware. Adjust the lower metal shelf forward or back to the desired location. Move the unistrut nuts in the pedestal cross channel so that they line up with the slots in the lower metal shelf and attach it using the 1/4-20 x 1.00 hex head bolts item D and the 1/4 flat washers item B. Tighten all hardware at this time.



Step 4

At this point the bench assembly is very heavy. Be sure that no assemblers are injured in the process of turning the bench over onto its pedestal leg assemblies. Turn the bench over onto its pedestal leg assemblies being very careful not to damage the worksurface by either drop it or by pulling on the pedestal legs too hard. When the bench is turned over install the drawers into the cabinet and continue the assembly.

Workmaster Lower Metal Shelf Two Suspended or Pedestal Cabinets

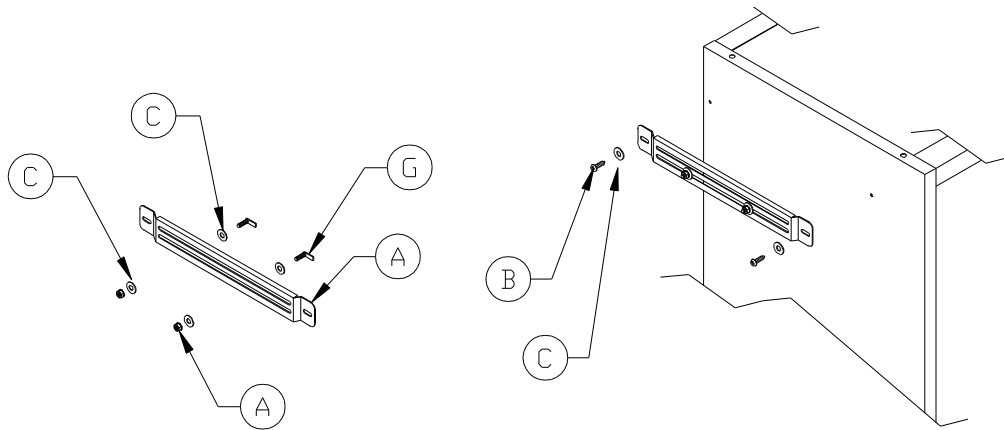
Item	Description	Qty
1	Lower Metal Shelf 2 Cabinets	1

HARDWARE KIT HWR147

A	Bracket, Cab Footrest LMS	2
B	Screw, #14AB X .625 PPH SMS Black	4
C	1/4 Flat Washer	16
D	Nut, 1/4-20 Hex Keys Black	4
E	Stud Weld 1/4-20 X .75 Right Angle	4

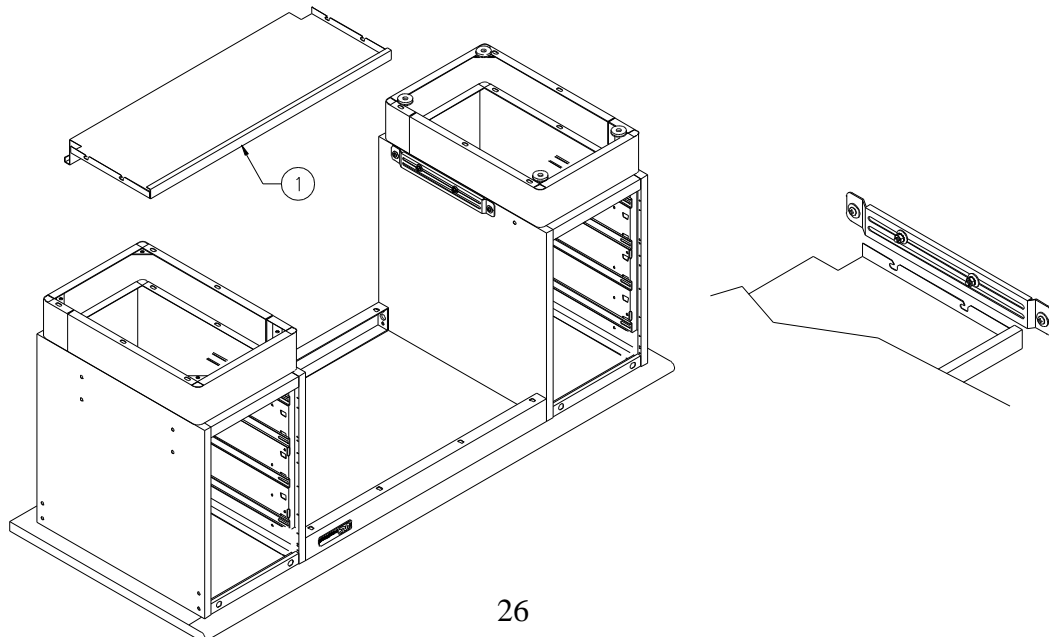
Step 1:

Install the weld studs item E, 1/4 flat washers item C, and 1/4-20 hex keys nuts item D into the cabinet footrest LMS brackets as shown below on the right. Do not tighten the hardware. Attach the bracket assemblies to the side of each cabinet using the phillips screws item B and 1/4 flat washers item C. Be sure the weld studs are positioned so that they will be in the lower slot of each of the brackets when the bench is turned over onto it's cabinets. Tighten the phillips screws to the cabinet side.



Step 2:

Fit the lower metal shelf between the cabinets so that the slots at each end can be aligned with the hardware installed in the cabinet footrest LMS brackets. Lift the lower metal shelf into place and adjust the hardware into the slots and hand tighten so that the shelf will hang on the hardware. Adjust the lower metal shelf forward or back to the desired location. Tighten all hardware at this time.



Workmaster Universal CPU Holder Slide-Out

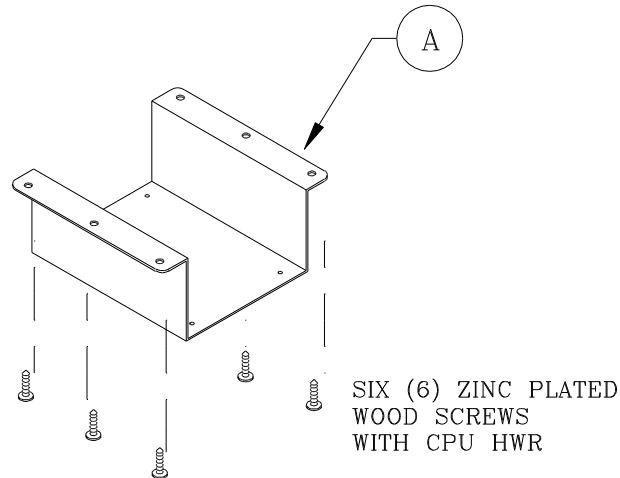
Item	Description	Qty
1	CPU Holder Swivel Adjustable Waterloo	1

HARDWARE KIT HWR307

A	Bracket CPU holder UNI WSM 3.11H	1
B	Screw # 14AB x .625 PPH SMS BLACK	4

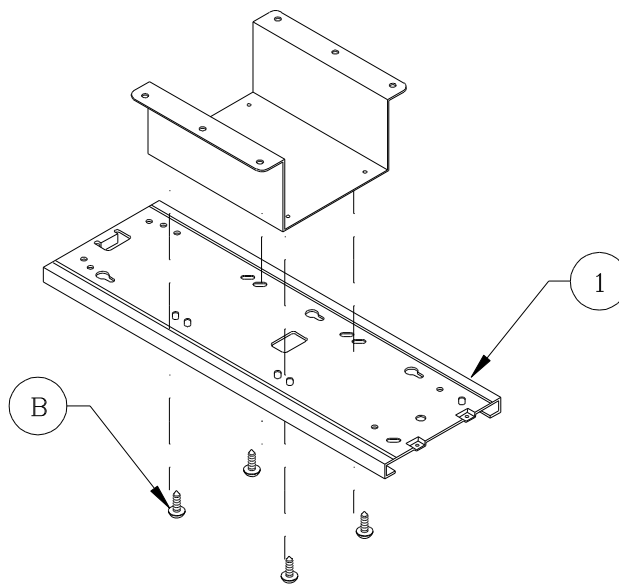
Step 1:

Remove CPU holder and the hardware kit included from the box. Using the six zinc plated wood screws included in the hardware kit of the CPU holder attach the CPU holder WSM bracket item A to the underside of your work surface, positioning it so that the CPU holder will not interfere with other items on the bench.



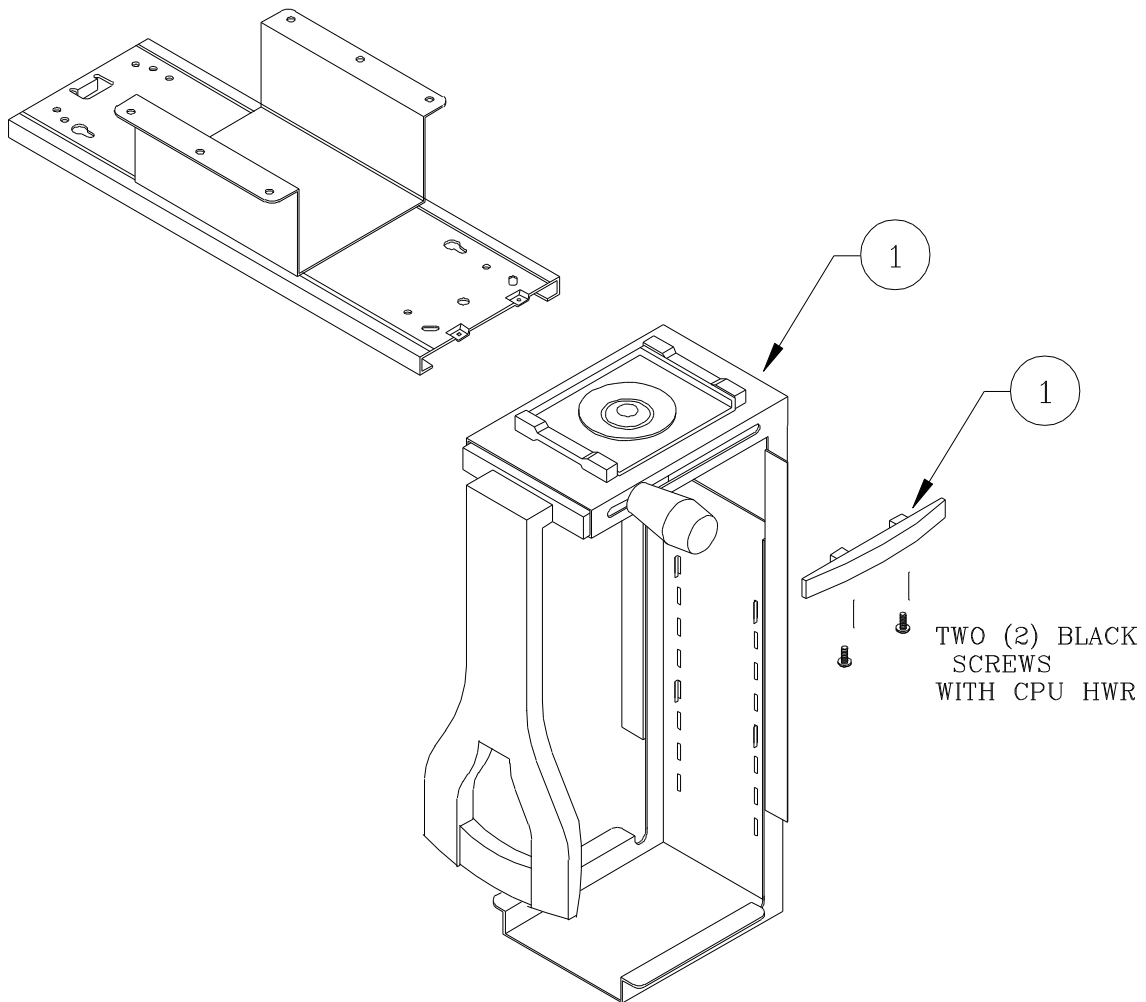
Step 2:

Attach the CPU holder top slide bracket to the CPU holder WSM bracket item A using four #14AB screws item B making sure the opening in the front of the slide bracket is toward the front of the bench.



Step 3:

Slide the CPU holder assembly into the opening in the slide bracket and secure using the plastic end stop included with the CPU holder hardware. Attach this end stop using the two small black screws included with the CPU holder hardware. The CPU holder should slide forward and back smoothly. Refer to the CPU holder manufacturer's instructions for the proper installation of CPU.

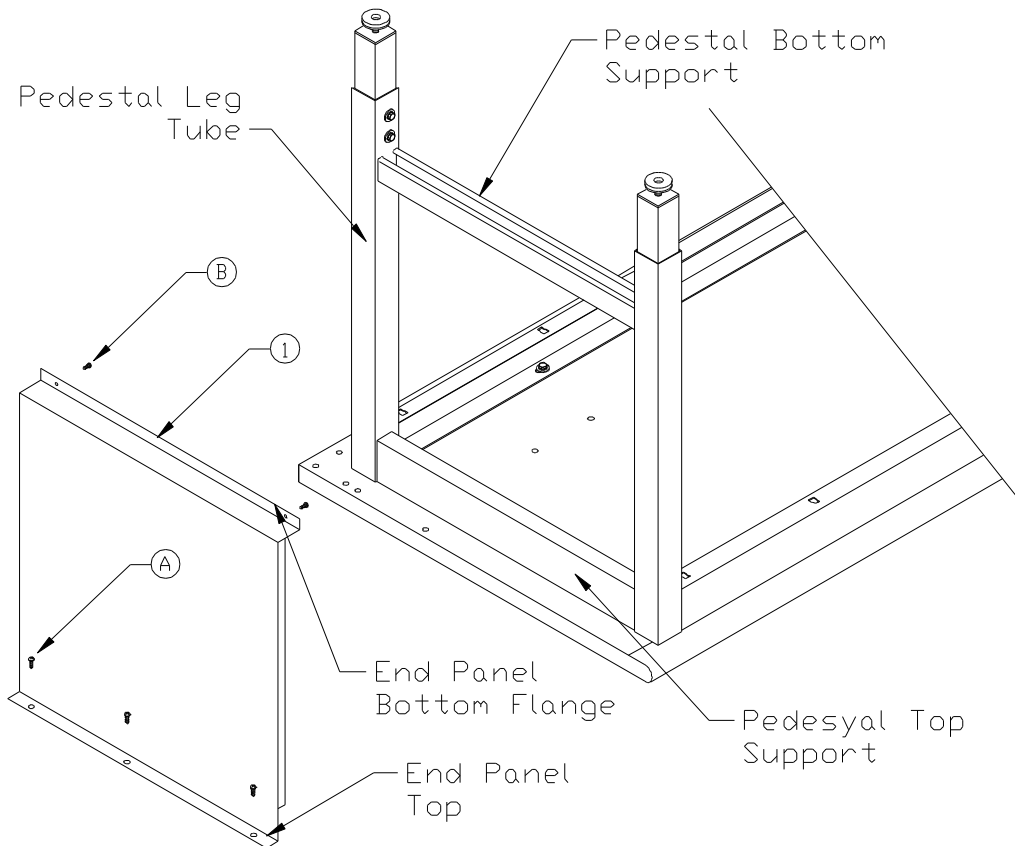


Workmaster End Panel

Item	Description	Qty
1	Pedestal End Panel	1
HARDWARE KIT HWR061		
A	Screw #14AB x .625 SMS PPH BLACK	3
B	Screw #10 x .375 PPH BLACK	2

Step 1:

Install the end panel into the pedestal by angling it between the pedestal leg tubes and the pedestal bottom support fitting the bottom flange of the end panel to the inside of the bench pedestal. Push the top of the end panel against the pedestal top support and attach the top flange of the end panel to the worksurface using three #14AB x .625 phillips head wood screws.



Step 2:

From the inside of the pedestal push the end panel against the pedestal bottom support and using the holes in the end panel as a template drill two 3/16" diameter holes into the pedestal bottom support. Attach the end panel to the bottom support using two #10 x .373 self-taping phillips screws.

Workmaster Modesty Panel

Item	Description	Qty
1	Modesty Panel	1

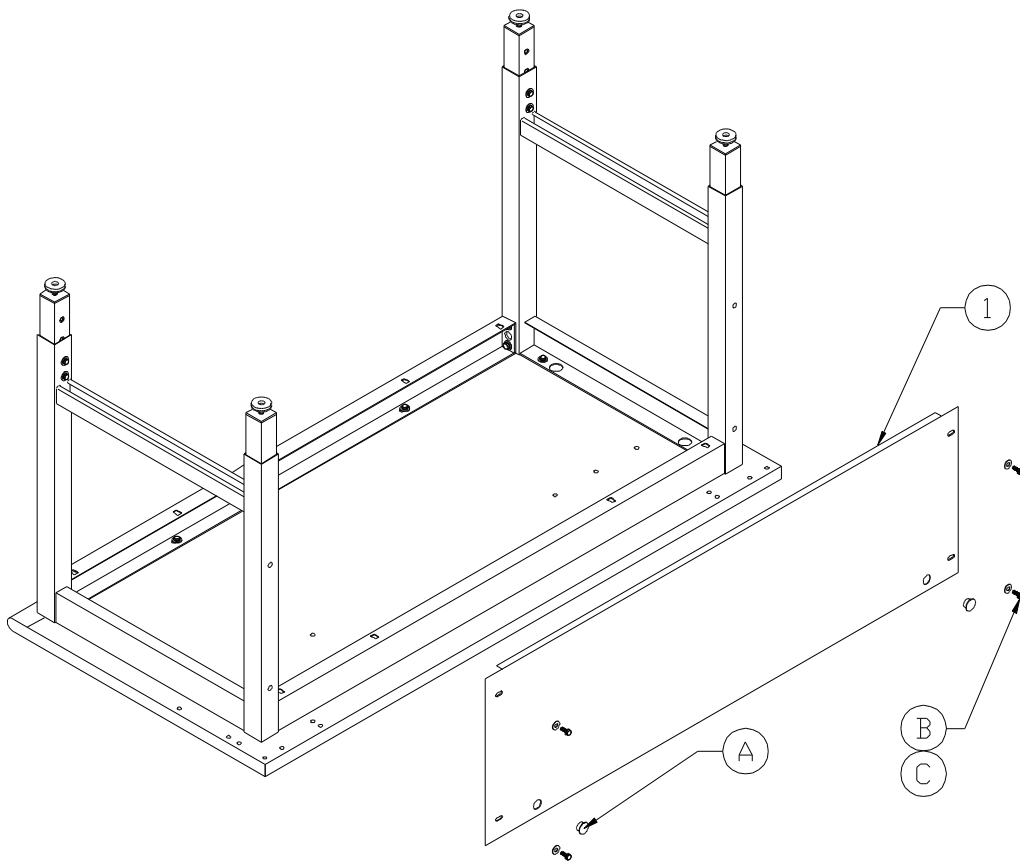
HARDWARE KIT HWR030

A	Cap, Plug .875 DIA Black Heyco #2703	2
B	Washer, 1/4 Flat Black	4
C	Bolt, 1/4-20 X .75 HHW Black	4
D	Screw, #14 X 1.00 PPH SMS Black	4

Note: This instruction can also be used for mounting modesty panels to benches with one and two cabinets.

Step 1:

Install the modesty panel to the back of the pedestal legs of the bench by using four 1/4-20 x .75 hex head bolts item C and four 1/4 flat washers item B. Install plastic caps as needed.



Please Note: To retrofit a modesty panel to an existing workbench place the modesty panel against the rear of the pedestal legs and using the slots in the modesty panel as a template drill four 7/32" diameter holes in the pedestal legs. Attach the modesty panel using four # 14 x 1.00 screws item D and four 1/4 flat washers item B.

Workmaster Isolation Screen

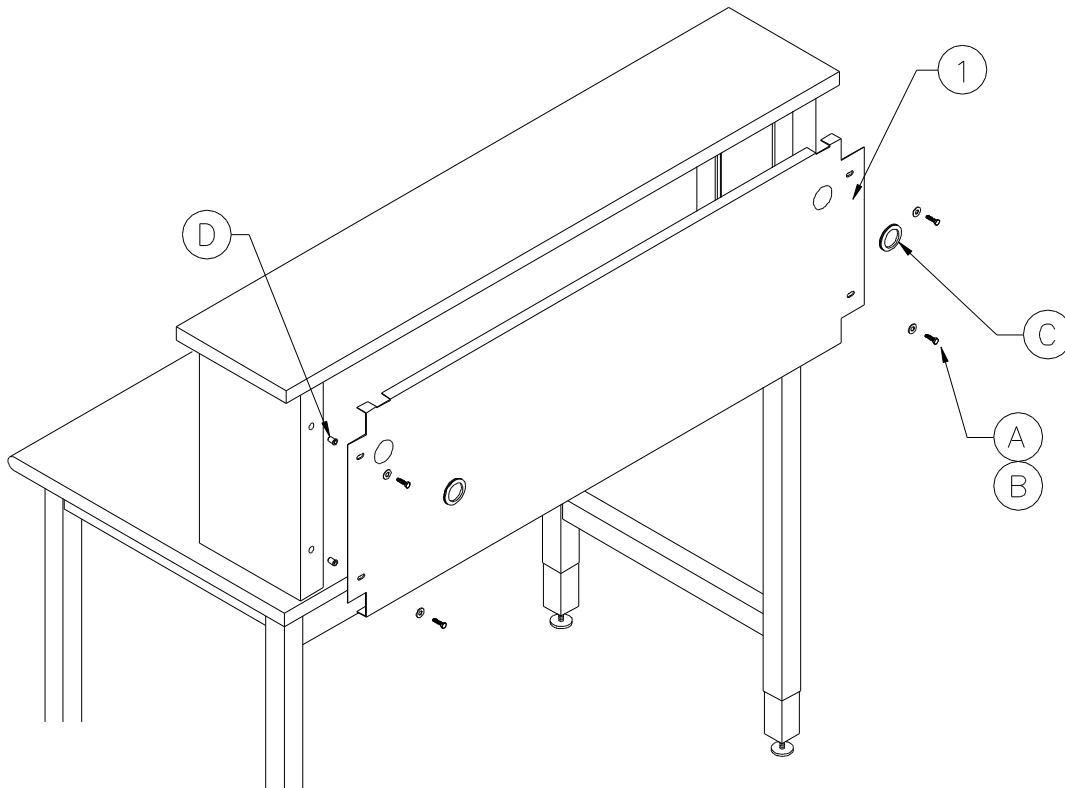
Item	Description	Qty
1	ISO Screen Panel	1

HARDWARE KIT HWR079

A	Bolt, 1/4-20 X 1.00 HHW Black	4
B	Washer, 1/4 Flat Black	4
C	Grommet Rubber 1.50 ID	2
D	Well nut 1/4-20 Brass Insert	4

Step 1:

Install ISO screen panel by installing four 1/4-20 well nuts item D into the holes in the back of the riser boxes.



Step 2:

Place the isolation screen panel against the back of the riser boxes with the flanges toward the inside of the worksurface and attach it using the four 1/4-20 X 1.00 bolts item A and the four 1/4 flat washers item B. Be sure to push the isolation screen against the well nuts as the bolts are being threaded into the well nuts. Install the rubber grommets into the holes provided.

Step 3:

Installation of ESD isolation screens is done the in the same way using hardware kit HWR138. Attach the ESD ground cord to one of the snaps on the isolation screen. Feed the ground cord through one of the holes in the isolation screen and attach it to the ground stud in the underside of the worksurface.

Workmaster Upper Bin Panel

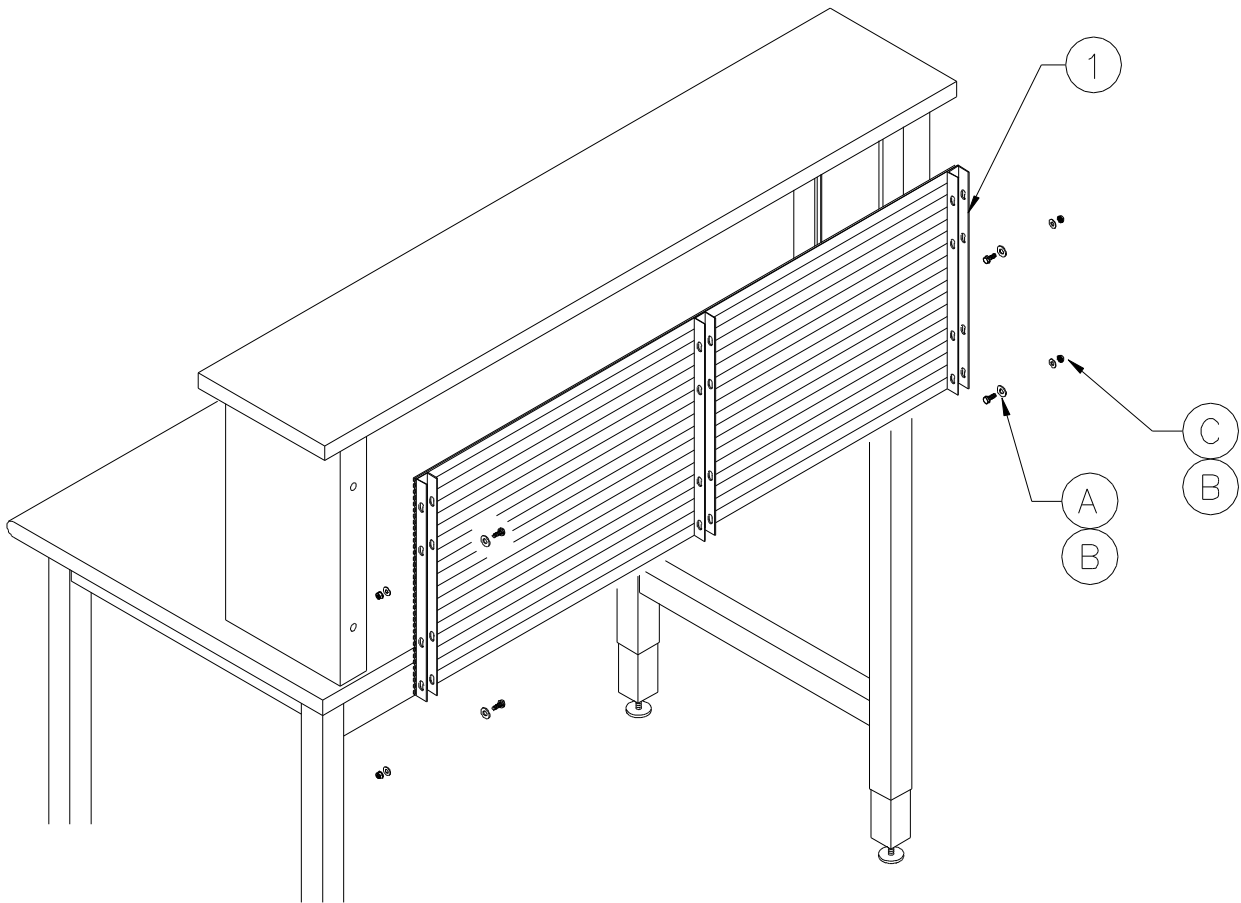
Item	Description	Qty
1	Upper Bin Panel	1

HARDWARE KIT HWR074

A	Bolt, 1/4-20 X .75 HHW Black	4
B	Washer, 1/4 Flat Black	8
C	Nut 1/4-20 Hex Keps Black	4

Step 1:

Place the upper bin panel between the two riser boxes aligning the slots in the panel brackets with the holes in the sides of the riser boxes. If you have purchased a TE2 type electrical channel install it before you install the upper bin panel. See page 10 for TE2 assembly instructions.

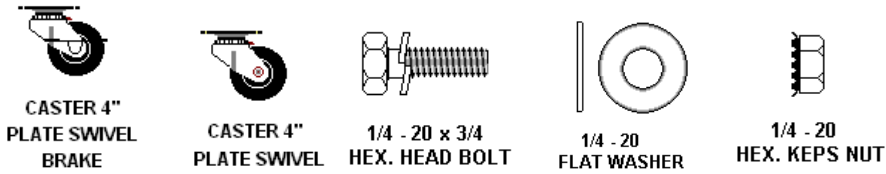


Step 2:

Attach the upper bin panel using the four 1/4-20 X .75 hex head bolts item A and the eight 1/4 flat washers item B and four hex keps nuts item C as shown below. The hex keps nuts will be located on the inside of the riser box so it may be necessary to have a second person assist in the assembly.

Plate Caster Leg Extender Kit

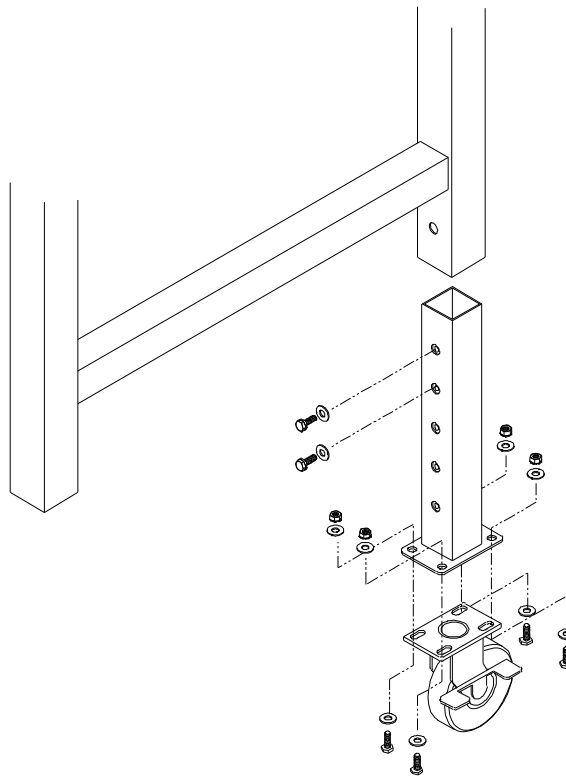
HARDWARE KIT HWR135



For easier installation, it is best to install the plate caster leg extenders while bench in upside down.
Note: If this kit is for an excising bench the leg extenders in that bench will have to be removed.

Step 1:

Slide the plate caster leg extender into the pedestal tube making sure the threaded holes on the plate caster leg extender tube are on the same side as the holes in the pedestal tube. Align the threads of the leg extender with the holes in the pedestal tube and select the desired height of the bench. Thread the 1/4-20 x .75 hex head bolts with the 1/4 flat washers into the threaded holes, two per plate caster leg extender, and tighten.



Step 2:

Install caster to leg extender using four 1/4-20 x .75 hex head bolts and eight 1/4 flat washers with four 1/4-20 hex keps nuts then tighten.

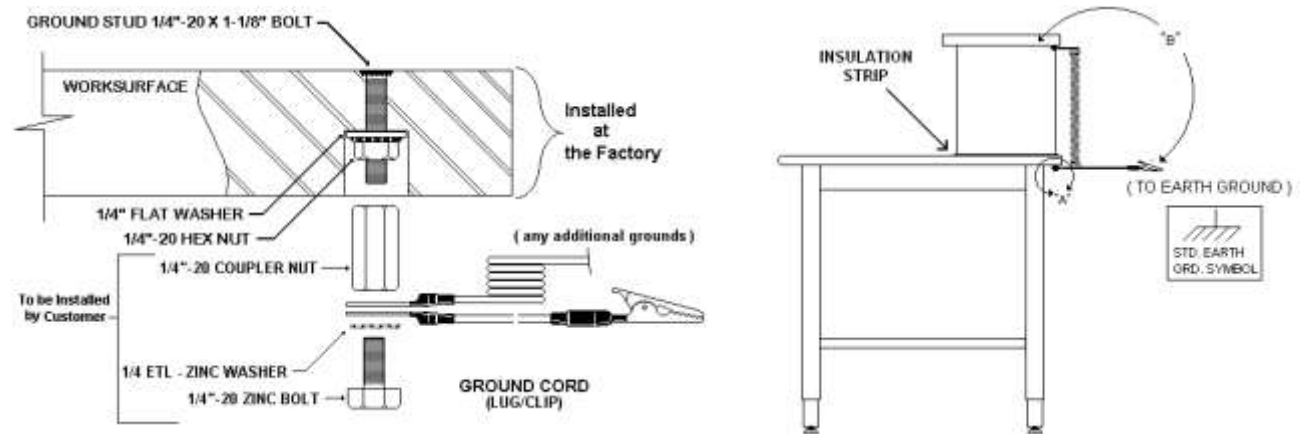
ESD Grounding

HARDWARE KIT HWR014 and HWR016

Note: do not use power tools for installation of ground cords.

Step 1:

For ESD worksurfaces and instrument shelves to dissipate static electricity they require the connection of a ground cord to an earth ground. IAC install grounding studs on each rear corner of all ESD worksurfaces and instrument shelves as well as insulation strips between work surface and riser boxes. Thread the 1/4-20 coupler nut onto one of these ground studs and tighten it being careful not to over tighten. Over tightening this coupler nut can cause damage to the connection between the ground stud and the laminate. Place the eyelet of the ground cord (or cords if you are also grounding an instrument shelf to the same ground stud) over the 1/4-20 x 1/2" bolt and thread the bolt into the coupler nut. The alligator clip must attach to an earth ground.



ESD Laminate Testing:

Although IAC conducts connectivity and surface resistance tests at the factory on all ESD worksurfaces and instrument shelves, IAC recommends that customers conduct their own tests on all ESD worksurfaces and instrument shelves to ensure that the ground cord installation has been completed correctly and that the ESD material is working properly.

Cleaning ESD Materials:

ESD laminates are designed to resist abrasion, scuffing, scorching, and most solvents. Intense exposure to any of these conditions can damage the ESD properties of the laminate and will require the replacement of the worksurface or instrument shelf. ESD laminate worksurfaces and instrument shelves are cleaned much the same as non-ESD laminated surfaces with a damp cloth and light soapy cleanser. A mild chemical cleaner can also be used as long as the laminate is not exposed to the chemical for long periods of time. Stains can be removed with a two-minute exposure to a 5% hypo chloride bleach solution immediately followed by a light soapy cleanser.

ESD Ground Precautions:

- 1) Connect each workbench worksurface individually to the earth ground.
- 2) The green wire in a standard wall duplex can be used if it has been absolutely determined that it is attached to an earth ground.
- 3) Do not use power tools to install grounding hardware and components.
- 4) If benches are relocated IAC recommends the ground cords connections be re-tested.
- 5) Never use abrasive pads or cleansers to clean ESD surfaces.
- 6) Never wax ESD surfaces and avoid cleaners with wax-based properties.
- 7) Test ESD worksurfaces and instrument shelves frequently to ensure it is working properly.