Quick Value
ALL AMERICAN SERIES WORK BENCHES

IAC INDUSTRIES
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Phone (714) 990-8997 Fax (714) 990-0557
www.iacindustries.com

QV Value Line
Assembly Instructions

REV. (042318P65)
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Tools required to assemble your QV American Series 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.

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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 work surfaces or accessories please review page 8 for helpful instructions and cautions before you begin assembling the workstations.
**WARNING:**

ALL PARTICLE BOARD USED IN IAC INDUSTRIES PRODUCTS ARE SOURCED ONLY FROM VENDORS THAT ARE CARB ATCM PHASE 2 AND TSCA TITLE VI COMPLIANT WITH VALID CERTIFICATES. Drilling, Sawing, Sanding or Machining Wood products can expose you to wood dust, a substance known to the state of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask to other safeguards for personal protection. This product can expose you to chemicals, including formaldehyde, which is known to the state of California to cause cancer, and methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information please visit, [www.P65WARNINGS.CA.GOV/WOOD](http://www.P65WARNINGS.CA.GOV/WOOD). COPY OF VENDOR CERTIFICATE AVAILABLE UPON REQUEST.

**PRE ASSEMBLY CHECK LIST**

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**HARDWARE KIT QS-HWR4001:**

Bolt, 1/4-20 X .75 SMS HHW  
1/4" Flat Washer  
Bolt, #14 A X .75 SMS HWD  
Plate, “L” Beam Connector

**HARDWARE KIT COMPONENTS:**

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</tr>
</thead>
<tbody>
<tr>
<td>Plate, “L” Connector</td>
<td>4</td>
</tr>
<tr>
<td>Bolt, 1/4-20 X .75 SMS HHW Black</td>
<td>16</td>
</tr>
<tr>
<td>Bolt, #14 A X .75 SMS HWD Black</td>
<td>8</td>
</tr>
<tr>
<td>Washer, 1/4 Flat Black</td>
<td>24</td>
</tr>
<tr>
<td>Insert, Tubing 3.00X2.00 5/16-18 16GA</td>
<td>4</td>
</tr>
<tr>
<td>Floor Glide 5/16-18 X 1.75 X 1.625 DIA</td>
<td>4</td>
</tr>
</tbody>
</table>

**WORKBENCH CONTENTS:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>Worksurface</td>
<td>1</td>
</tr>
<tr>
<td>Pedestal Leg Tubes</td>
<td>4</td>
</tr>
<tr>
<td>Pedestal Top Supt.</td>
<td>2</td>
</tr>
<tr>
<td>Supt Beams</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOOLS NEEDED:** Power or hand held Phillips head screwdriver with #2 tip, 7/16" and 1/2" combination wrench or thin wall sockets.
QV-All American Series

Place worksurface top side 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.

**STEP #1** 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 pilot holes in the worksurface as shown. Thread the BOLT, #14A X .75 SMS HWD BLK with 1/4 flat washers into the pilot hole to attach the beams to the worksurface. DO NOT TIGHTEN THE HARDWARE.

**STEP #2** Align the workbench leg supports over the ends of the support beams and lower them down over the "L" beam connector plate so that the plate is on the inside of the leg support tubing. Thread 1/4-20 x .75 HH bolts and 1/4" flat washers into the threaded inserts to attach the support beams to the leg supports. Repeat the process for the remaining leg supports. At this time the floor glide assembly may be inserted into the bottom of the LEG support as shown below. DO NOT TIGHTEN THE HARDWARE.

**STEP #3** Align the slots of the 2 leg support beams over the pilot holes in the worksurface and thread the BOLT, #14A X .75 SMS HWD BLK with the 1/4 washers into the pilot holes. 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 LEG support beam hardware. NOTE: Do not over tighten the hardware that goes into the pilot holes in the worksurface as this could cause the wood around the hole to break up around the pilot hole in the worksurface and cause the bolt to pull out.

**STEP #4** Place insert tubing onto the bottom of the leg supports, then tap it in with something of force (a small rubber mallet will do the job). Once the insert has snapped in now thread the floor glide into the tubing. Repeat for the remaining legs.
Notice: If you have purchased an electrical duplex, please proceed to the assembly instructions provided for the electrical duplex at this time. If not, then ignore this message.

Notice: If you have purchased an instrument shelf, please proceed to the assembly instructions provided for the instrument shelf at this time. If not, then ignore this message.

Notice: If you have purchased uprights for this bench, please proceed to pages 6-7 for the uprights at this time. If not, then ignore this message.

Notice: If you have purchased a footrest tube for this bench, please proceed to the assembly instructions provided for the footrest tube at this time, if not, then ignore this message.

Notice: If you have purchased a leg extender kit for this bench, please proceed to the assembly instructions provided for the leg extenders at this time, if not, then ignore this message.
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HARDWARE KIT QS-HWR3055:

BOLT, 1/4-20 X 2.75 HH BLACK
1/4" Flat Washer
Unistrut Long Spring N-2-4

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOLT, 1/4-20 X 2.75 HH BLACK</td>
<td>6</td>
</tr>
<tr>
<td>NUT, 1/4-20 UNISTRUT LONG SPRING N-2-4</td>
<td>6</td>
</tr>
<tr>
<td>WASHER, 1/4 FLAT BLACK</td>
<td>6</td>
</tr>
</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.
**QV-All American Series**

**Upright Assembly**

**Step 1**: Using the BOLTS, 1/4-20 X 2.75 HH BLACK and 1/4 washers provided, thread them through the rear bench leg supports where shown. The NUTS, 1/4-20 UNISTRUT LONG SPRING N-2-4 need to be inserted into the uprights by compressing the spring and sliding the nuts up into the uprights. Making sure the Spring Nuts grab onto the inside of the uprights, you may now align the holes of the spring nuts with the Bolts that are threaded through the rear leg supports and proceed to tighten hardware. Once both uprights are attached, make sure all hardware is fully tightened and secure.
ESD Grounding
Hardware kit HWR014 and HWR016

Note: DO NOT use power tools for installation of ground cords.

Step 1:
For ESD work surfaces 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 work surfaces 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 work surfaces and instrument shelves, IAC recommends that customers conduct their own tests on all ESD work surfaces 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 work surface or instrument shelf. ESD laminate work surfaces 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 work surface 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 work surfaces and instrument shelves frequently to ensure it is working properly.
Quick Value
ALL AMERICAN SERIES LEG EXTENDERS

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- 7/16” and 1/2” wrench or socket with ratchet.
- Phillips screwdriver 8” long.
- Utility knife.
- Safety glasses and light duty protective gloves.

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HARDWARE KIT QS-HWR4005:

Bolt, 1/4-20 X .75 SMS HHW
1/4" Flat Washer
Floor Glide 5/16-18 1.75 X 1.625

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Bolt, 1/4-20 X .75 SMS HHW Black</td>
<td>4</td>
</tr>
<tr>
<td>Washer, 1/4 Flat Black</td>
<td>4</td>
</tr>
<tr>
<td>Insert, Tubing 1.75X1.75 5/16-18 16GA</td>
<td>4</td>
</tr>
<tr>
<td>Floor Glide 5/16-18 X 1.75 X 1.625 DIA</td>
<td>4</td>
</tr>
<tr>
<td>Insert, Tubing 1.75X1.75 5/16-18 16ga</td>
<td></td>
</tr>
</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16" and 1/2" combination wrench or thin wall sockets.
**QV-All American Series**  
**Leg Extenders**

**STEP #1** Place insert tubing onto the bottom of the leg supports, then tap it in with something of force (a small rubber mallet for example).

**STEP #2** Once the insert has snapped in now thread the floor glide into the tubing. Repeat for the remaining legs.

**STEP #3** Slide leg extender into leg support using the provided bolts, 1/4-20 X .75 SMS HHW. Align the holes on the leg support with the holes that represent the desired height on the leg extender. Tighten bolts to finish assembly. Repeat for remaining legs.
Quick Value

ALL AMERICAN SERIES FOOTREST TUBE
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<td>QV American Series FOOTREST TUBE</td>
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HARDWARE KIT QS-HWR4017:

Bolt, ¼-20 X .750 HHW BLK
1/4" Flat Washer
Insert, Tubing 1.00 DIA ¼-20 16GA
Screw, #14 X 1.00 PPH SMS BLK
VL Footrest Non-Slip Strip 38”

HARDWARE KIT COMPONENTS:

<table>
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<tr>
<th>Description</th>
<th>Qty</th>
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<tr>
<td>Bolt, ¼-20 X .750 HHW Black</td>
<td>2</td>
</tr>
<tr>
<td>Washer, ¼ Flat Black</td>
<td>6</td>
</tr>
<tr>
<td>Insert, Tubing 1.00 DIA ¼-20 16GA</td>
<td>6</td>
</tr>
<tr>
<td>Screw, #14 X 1.00 PPH SMS Black</td>
<td>4</td>
</tr>
<tr>
<td>VL Footrest Non-Slip Strip 38”</td>
<td>4</td>
</tr>
</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.
**QV-All American Series**
Footrest Tube Assembly

**Step 1** - Using the insert tubing 1.00 DIA ¼-20 16GA provided, fit it into the ends of the tubing shown below. Once the tubing is inserted connect the tubing to one of the crossbars using the Bolt, ¼-20 X .750 HHW Black and ¼ washers. Feed the Bolts through the outside of the crossbar and into the tubing that is inserted in the footrest. Make sure the hardware is tightened and secure.

**Step 2** - After the tube is mounted onto the two crossbars, now take the Screws, #14 X 1.00 PPH SMS Black provided and thread them through the holes at the end of the crossbars shown below. Then tighten the hardware through the holes on the cross bar and into the holes on the bench leg supports shown below. Once all hardware if fully tightened and secure you may now attach the Footrest Non-Slip Strip onto your footrest.
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<td>QV American Series Drawer Assembly (Steps 1-3)</td>
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<td>5-6</td>
<td>Cylinder Lock Assembly Instructions</td>
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</tbody>
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TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.

Single Drawer

Bolt, ¼-20 X 1.00 HH BLK 1/4 Flat Washer 1/4-20 Captive Tinnerman 1/4-20 Hex Keps BLK

Screw, ¼-20 X .500 PPH “F” BLK #14 X 1.00 PPH Screw Screw, ¼-20 X .500 PPH “F” BLK

HARDWARE KIT QV-HWR4015

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<th>DESCRIPTION</th>
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<td>Bolt, ¼-20 X 1.00 HH BLK</td>
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<tr>
<td>B</td>
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<td>C</td>
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<td>D</td>
<td>1/4-20 Hex Keps BLK</td>
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<tr>
<td>E</td>
<td>#14 X 1.00 PPH Screw</td>
<td>2</td>
</tr>
<tr>
<td>F</td>
<td>Screw, ¼-20 X .500 PPH “F” BLK</td>
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<tr>
<td>G</td>
<td>Nut, ¼-20 Unistrut Long Spring N-2-4</td>
<td>4</td>
</tr>
<tr>
<td>H</td>
<td>Brkt, DWR Hanger 3.00X12.00L VL</td>
<td>1</td>
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</tbody>
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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. 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 2:** Install the captive retainer nuts onto the bench front beam as shown below.

**Step 3:** Finish the drawer assembly as shown below using ¼-20 X 1.00 HH bolts and ¼ flat black washer (items A & B) for the connection of the support beam and drawer case. Using items (F & B) for the connection of the back of the drawer case and the drawer hanger bracket (H).
Cylinder Lock Bill Of Materials

Lock Retainer

Lock Body

Two Keys

Lock Bill of Materials

<table>
<thead>
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<th>Description</th>
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<td>Lock Retainer</td>
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<td>Lock Body</td>
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<tr>
<td>Set Of Lock Keys</td>
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QV-All American Series
Lock Assembly

**Step 1.-** Insert Lock body into drawer face. Making sure the back of the lock is facing in the upward direction. You may do this with the keys already inside the lock itself. Once the lock body is in place, use the clip lock retainer provided to hold the lock in place. To do so hold the lock body in place and push the clip lock retainer until it snaps into place holding the lock up against the drawer face.
IAC INDUSTRIES
3831 S BULLARD AVE., GOODYEAR, AZ 85338
Phone (714) 990-8997 Fax (714) 990-0557
www.iacindustries.com

QV Value Line
Assembly Instructions
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**PLEASE NOTE:**

Quick Value Accessories include assembly instructions in their own packaging when packed by individually. Please look for these instructions while unpacking.

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Tools required to assemble your QV American Series 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.

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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 work surfaces or accessories please review page 6 for helpful instructions and cautions before you begin assembling the workstations.
WARNING:

ALL PARTICLE BOARD USED IN IAC INDUSTRIES PRODUCTS ARE SOURCED ONLY FROM VENDORS THAT ARE CARB ATCM PHASE 2 AND TSCA TITLE VI COMPLIANT WITH VALID CERTIFICATES. Drilling, Sawing, Sanding or Machining Wood products can expose you to wood dust, a substance known to the state of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask to other safeguards for personal protection. This product can expose you to chemicals, including formaldehyde, which is known to the state of California to cause cancer, and methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information please visit, www.P65WARNINGS.CA.GOV/WOOD. COPY OF VENDOR CERTIFICATE AVAILABLE UPON REQUEST.

PRE ASSEMBLY CHECK LIST

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HARDWARE KIT HWR4011:

- Screw, ¼-20 X .500 PPH F Blk
- 1/4" Flat Washer
- Bolt, #14A X .75 SMS HWD BLK

HARDWARE KIT COMPONENTS:

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<tr>
<td>Washer ¼ Flat Black</td>
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<tr>
<td>Screw, ¼-20 X .500 PPH “F” Black</td>
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<tr>
<td>Washer, ¼ Flat Fender Black</td>
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<td>Washer, ¼ Flat Fender Blk</td>
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WORKBENCH CONTENTS:

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<td>Work surface</td>
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<tr>
<td>Riser Box Body</td>
<td>2</td>
</tr>
<tr>
<td>Supt beam channel</td>
<td>1</td>
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</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16" and 1/2" combination wrench or thin wall sockets.
QV-All American Series Instrument Shelves
Place Instrument Shelf work surface top side 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.

**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 holes on the instrument shelf. Then screw in the Bolts, #14A X .75 SMS HWD BLK provided and Washer, ¼ Flat Fender Black into the holes of the riser box and instrument shelf and hand tighten. DO NOT TIGHTEN THIS HARDWARE.

**Step 2:** Connect the support beam to the riser boxes using the Screws, ¼-20 X .500 PPH “F” Black and Washer ¼ Flat Black provided. Align support beam-ends with holes in riser boxes and feed screws through the support beam-ends plate and the holes in the riser boxes and hand tighten.

**Note:** The next step requires the drilling of holes onto the work surface in order to mount your instrument shelf assembly. See page 6 for a diagram on where to place the holes.

**Step 3:** Align the holes on the bottom of riser boxes with the inserts on top of the work surface. Attach the riser boxes with the Bolts, #14A X .75 SMS HWD BLK and Washer, ¼ Flat Fender Black as shown. Tighten hardware at this time being careful not to over tighten the hardware going into the holes in the work surface. **Make sure all hardware is tightened and secure.**
INSTRUMENT SHELF HOLE PATTERN

The figure below shows the hole pattern for the riser box. You need to drill two 3/16ths holes. The first hole is 3 inches from the end of the work surface and 3 inches from the top of the work surface. The second hole is also 3 inches from the end of the work surface; however it is 10 inches from the top of the work surface. The holes are to be placed using the same dimensions for the opposite side of the work surface as well.
ESD Grounding
HARDWARE KIT HWR 122
Note: do not use power tools for installation of ground cords.

Step 1:
For ESD work surfaces 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 work surfaces 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 work surfaces and instrument shelves, IAC recommends that customers conduct their own tests on all ESD work surfaces 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 work surface or instrument shelf. ESD laminate work surfaces 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 work surface 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 work surfaces and instrument shelves frequently to ensure it is working properly.
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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.

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Mounting Plate Screws

Electrical Mounting Plates

Hardware Kit Components

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<tbody>
<tr>
<td>Mounting Plate Screws</td>
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</tr>
<tr>
<td>Electrical Mounting Plates</td>
<td>2</td>
</tr>
</tbody>
</table>

TOOLS NEEDED: Power or hand held phillips head screwdriver with #2 tip, 7/16" and 1/2" combination wrench or thin wall sockets.
QS-All American Series Electrical

Follow Steps 1 and 2 to install mounting bracket to worksurface.

PLEASE NOTE: (If installing electrical channel on the underside of worksurface)
Place worksurface top side down on smooth flat surface being sure to protect it from damage by foreign objects. If adding electrical channel to an existing or set-up bench, the worksurface will need to be removed from the frame for it to be able to install on the underside of bench. Once this is done, then the worksurface needs to be reinstalled to frame.
IAC recommends the use of packing type blankets or clean cardboard.

STEP #1) Mount one of the metal plates using 2 of the 4 screws given in the hardware kit. To insure proper alignment only install one of the plates. Then slide electrical onto mounting plate until there is space to mount the remaining mounting plate.

STEP #2)
Once the second mounting plate is installed slide the electrical back onto the second mounting plate. The electrical duplex should be connected to the two mounting plates on the work surface.
Finished assembly shown below:
Quick Value
ALL AMERICAN SERIES UPRIGHTS
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- Phillips screwdriver 8” long.
- Utility knife.
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HARDWARE KIT QS-HWR3055:

![BOLT, 1/4-20 X 2.75 HH BLACK](image)

![1/4" Flat Washer](image)

![Unistrut Long Spring N-2-4](image)

HARDWARE KIT COMPONENTS:

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<tr>
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</tr>
</thead>
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<tr>
<td>BOLT, 1/4-20 X 2.75 HH BLACK</td>
<td>6</td>
</tr>
<tr>
<td>NUT, 1/4-20 UNISTRUT LONG SPRING N-2-4</td>
<td>6</td>
</tr>
<tr>
<td>WASHER, 1/4 FLAT BLACK</td>
<td>6</td>
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</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16" and 1/2" combination wrench or thin wall sockets.
QV-All American Series
Upright Assembly

NOTE: Drawing below shows the assembly of the uprights to the bench with just the rear leg supports of the bench for assembly purposes, it is recommended that you install the uprights after the assembly of your bench.

Step 1- Using the BOLTS, 1/4-20 X 2.75 HH BLACK and ¼ washers provided, thread them through the rear bench leg supports where shown. The NUTS, 1/4-20 UNISTRUT LONG SPRING N-2-4 need to be inserted into the uprights by compressing the spring and sliding the nuts up into the uprights. Making sure the Spring Nuts grab onto the uprights, you may now align the holes of the spring nuts with the Bolts that are threaded through the rear leg supports. Once both uprights are attached, make sure all hardware is fully tightened and secure.
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Tools required to assemble your QV American Series BENCH products are:
- 7/16” and 1/2” wrench or socket with ratchet.
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HARDWARE KIT QS-HWR3090:

Screw, ¼-20 X .750 PPH MS Blk 1/4" Flat Washer Unistrut Long Spring N-2-4

Bolt, ¼-20 X .500 Carriage Zinc. Nut, ¼-20 Hex Black

HARDWARE KIT COMPONENTS:

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<tr>
<td>Screw, ¼-20 X .750 PPH MS Blk</td>
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<td>Washer, ¼ Flat Black</td>
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<td>Nut, ¼-20 Unistrut long Spring N-2-4</td>
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<tr>
<td>Bolt, ¼-20 X .500 Carriage Zinc</td>
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<tr>
<td>Nut, ¼-20 Hex Black</td>
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</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16" and 1/2" combination wrench or thin wall sockets.
QV-All American Series
Shelf Assembly

**Step 1:** Start by installing one side bracket at a time. Take one of the side brackets included and feed the bottom flange with the two holes underneath the shelf body. (shown below) **NOTE:** Dotted lines in the drawing below represent something below the surface of the shelf body; in this case the bottom flange of shelf bracket is shown hidden beneath the surface of the shelf body. Using the Bolts, ¼-20 X .500 Carriage zinc provided, align the square slots with the holes located on the bottom flange of the bracket once the Bolts are fed through both items, now use the Nuts, ¼-20 Hexes and Washer ¼ provided to thread through the bottom of the bracket, and tightening the Hex nuts to connect the bracket to the shelf body. Repeat this process for remaining bracket. Make sure all hardware is fully tightened.

**Step 2:** Now using the Nuts, ¼-20 Unistrut long Spring N-2-4 provided along with the Screws, ¼-20 X .750 PPH MS Blk. Install the Long Spring Nuts into the uprights at desired height, match up the holes of the brackets with the Spring nuts and tighten the bracket to the uprights using the Screws ¼-20 X .750. Once the Shelf is fully attached to the uprights, make sure all hardware if fully tightened and secure.
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<td>QV American Series PARTS CUP RAIL.</td>
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QV-All American Series
BIN RAIL

Step 1 - Insert Spring nuts into the uprights by compressing the spring and setting it inside the uprights. Then use BOLT 1/4-20 X 1.00 HH BLK and WASHER 1/4-20 FLAT BLK to connect the part cup rail to the spring nuts at the desired height.
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HARDWARE KIT QS-HWR4050:

![Screw, ¼-20 X 1.00 PPH BLK](image)

![1/4" Flat Washer](image)

![Unistrut Long Spring N-2-4](image)

![Unistrut Short Spring N-5](image)

![Screw, ¼-20 X .750 PPH MS Black](image)

![Cap, 1.50 X 1.50 14-20 GA Blk SQ](image)

HARDWARE KIT COMPONENTS:

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</tr>
<tr>
<td>Nut, ¼-20 Unistrut long Spring N-2-4</td>
<td>6</td>
</tr>
<tr>
<td>Nut, ¼-20 Unistrut Short Spring N-5</td>
<td>2</td>
</tr>
<tr>
<td>Screw, ¼-20 X .750 PPH MS Black</td>
<td>6</td>
</tr>
<tr>
<td>Cap, 1.50 X 1.50 14-20 GA Blk SQ</td>
<td>2</td>
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</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.
QV-All American Series
Light Fixture Assembly

**Step 1 - Read the Note below before continuing.** Once the Screws, 1/4-20 X 1.00 PPH BLACK have been threaded through the slots in the light fixture, proceed to feed the Nut, 1/4-20 UNISTRUT SHORT SPRING N-5 into the sides of the unistrut channel by compressing the spring and rotating the nut inside the channel until it sets along the inside of the channel. Once the Nut Springs are lined up with the Screws in the light, you may tighten the screws, connecting the unistrut channel to the light fixture. Making sure the hardware is securely tighten you can now put back together the light fixture diffuser and ballast cover back together. **Note:** The light fixture diffuser and ballast cover must be removed to expose the mounting slots in the light fixture housing. This must be done with extreme caution so that neither part is broken nor that wires are not exposed when the ballast cover is reinstalled.

**Step 2:** Using the NUT, 1/4-20 UNISTRUT LONG SPRING N-2-4 provided, feed them into the two support channels using the same process as before making sure the Long Spring nuts sit on the inside of the channels. Setting one channel up at a time, align the spring nut with the holes in the end of the unistrut channel that is connected to the light fixture as shown below. Using the Screw ¼-20 X .750 PPH MS BLK and the ¼ Washer, tighten the screw into the spring nut to secure the two together. Repeat for the remaining support channel. At this time make sure all hardware is fully tightened.
Quick Value
ALL AMERICAN SERIES FPD SWING ARM UNIVERSAL

IAC INDUSTRIES
3831 S BULLARD AVE., GOODYEAR, AZ 85338
Phone (714) 990-8997 Fax (714) 990-0557
www.iacindustries.com

QV Value Line
Assembly Instructions
PLEASE NOTE:

Quick Value Accessories include assembly instructions in their own packaging when packed by individually. Please look for these instructions while unpacking.

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 QV American Series 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.

⚠️ WARNING: ⚠️

ALL PARTICLE BOARD USED IN IAC INDUSTRIES PRODUCTS ARE SOURCED ONLY FROM VENDORS THAT ARE CARB ATCM PHASE 2 AND TSCA TITLE VI COMPLIANT WITH VALID CERTIFICATES. Drilling, Sawing, Sanding or Machining Wood products can expose you to wood dust, a substance known to the state of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask to other safeguards for personal protection. This product can expose you to chemicals, including formaldehyde, which is known to the state of California to cause cancer, and methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information please visit, [www.P65WARNINGS.CA.GOV/WOOD](http://www.P65WARNINGS.CA.GOV/WOOD).
COPY OF VENDOR CERTIFICATE AVAILABLE UPON REQUEST.

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.

HARDWARE KIT QV-HWR4121:

Nut 1/4-20 Unistrut Long Spring 1/4" Flat Washer Bolt ¼-20 X 1.5 HHD BLK Brkt, FPD SUPT Arm MTG

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUT 1/4-20 UNISTRUT LONG SPRING</td>
<td>2</td>
</tr>
<tr>
<td>Washer, ¼ Flat Black</td>
<td>2</td>
</tr>
<tr>
<td>BOLT 1/4-20 X 1.5O HHD BLACK</td>
<td>2</td>
</tr>
<tr>
<td>BRKT, FPD SUPT ARM MTG 1.857X5.50L AMS</td>
<td>1</td>
</tr>
</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.
**QV-All American Series**  
Footrest Tube Assembly

**Step 1** - First, using the Unistrut long spring nuts, insert them into the upright by compressing the spring and placing them inside of the upright, align the holes of the Swing arm mount, and the holes that are on your Bracket, FDP Support Arm MTG. Once the holes are aligned thread the bolts, ¼-20 X 1.50 HHD BLK through the holes and tighten the hardware, connecting the swing arm mount and bracket to the upright.
Quick Value
ALL AMERICAN SERIES FPD KEYBOARD HOLDER

IAC INDUSTRIES
3831 S BULLARD AVE., GOODYEAR, AZ 85338
Phone (714) 990-8997 Fax (714) 990-0557
www.iacindustries.com

QV Value Line
Assembly Instructions
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<td>Pre-assembly Check List</td>
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<td>4</td>
<td>QV American Series FDP Keyboard/Mouse Holder</td>
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**PLEASE NOTE:**

Quick Value Accessories include assembly instructions in their own packaging when packed by individually. Please look for these instructions while unpacking.

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Tools required to assemble your QV American Series 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.

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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.

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PRE ASSEMBLY CHECK LIST

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HARDWARE KIT QS-HWR4025:

SCREW, 10-32 X .625 PPH ZINC WASHERS, #10 FLAT ZINC NUT, and #10-32 HEX ZINC

BRKT, KEYBOARD HLDR SUPT AMS

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCREW; 10-32 X .625 PPH ZINC</td>
<td>9</td>
</tr>
<tr>
<td>WASHER, #10 FLAT ZINC</td>
<td>25</td>
</tr>
<tr>
<td>NUT, #10-32 HEX ZINC</td>
<td>9</td>
</tr>
<tr>
<td>BRKT, KEYBOARD HLDR SUPT AMS</td>
<td>1</td>
</tr>
</tbody>
</table>

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.
QV-All American Series
Flat Panel Display Keyboard Assembly

**Step 1** - Insert the keyboard bracket shown from the bottom of the tray up into the opening and mount it by using SCREW; 10-32 X .625 PPH ZINC, Washer #10 and Nut #10-32. Make sure all hardware is tightened and secure.

Step 2 - Place metal sleeve onto keyboard bracket and thread SCREW; 10-32 X .625 PPH ZINC and Washer #10 into the holes of the sleeve and tighten hardware using Nut #10-32 and Washer #10 to connect the two together. Once the sleeve is tightened and in place, place the flat panel display onto the holes shown in the figure below, and connect the two pieces together with SCREW; 10-32 X .625 PPH ZINC Washer #10, and Nut #10-32 with Washer #10. Make sure all hardware is fully tightened and secure.
PLEASE NOTE:

Quick Value Accessories include assembly instructions in their own packaging when packed by individually. Please look for these instructions while unpacking.

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Tools required to assemble your QV American Series 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.

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HARDWARE KIT QS-HWR4115:

Nut 1/4-20 Unistrut Long Spring  1/4" Flat Washer  Bolt ¼-20 X 1.5 HHD BLK  Nut, #10-32 Hex Keps Blk

Washer, #10 Flat BLK  Screw, 8-32 X .75 PPH MS  Clip, Doc. Holder  Brkt, FPD Supt. Arm MTG

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>NUT 1/4-20 UNISTRUT LONG SPRING</td>
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</tr>
<tr>
<td>Washer, ¼ Flat Black</td>
<td>2</td>
</tr>
<tr>
<td>BOLT 1/4-20 X 1.50 HHD BLACK</td>
<td>2</td>
</tr>
<tr>
<td>NUT, #10-32 HEX KEPS BLACK</td>
<td>4</td>
</tr>
<tr>
<td>WASHER, #10 FLAT BLACK</td>
<td>4</td>
</tr>
<tr>
<td>SCREW, 8-32 X .750 PPH MS</td>
<td>2</td>
</tr>
<tr>
<td>NUT, WELL #8-32 NEOPRENE</td>
<td>2</td>
</tr>
<tr>
<td>CLIP, DOCUMENT HOLDER CLIPBOARD</td>
<td>1</td>
</tr>
<tr>
<td>BRKT, FPD SUPT ARM MTG 1.857X5.50L AMS</td>
<td>1</td>
</tr>
</tbody>
</table>

Nut, Well #8-32 Neoprene

TOOLS NEEDED: Power or hand held Phillips head screwdriver with #2 tip, 7/16” and 1/2” combination wrench or thin wall sockets.
QV-All American Series
Footrest Tube Assembly

**Step 1** - First, using the Unistrut long spring nuts, insert them into the upright by compressing the spring and placing them inside of the upright, align the holes of the Swing arm mount, and the holes that are on your Bracket, FDP Support Arm MTG. Once the holes are aligned thread the bolts, ¼-20 X 1.50 HHD BLK through the holes and tighten the hardware, connecting the swing arm mount and bracket to the upright.

**Step 2** - Now, Place the Document holder pan onto the mounting arm where shown below and connect the two using the Nuts, #10-32 Hex Keps BLK and Washers #10. Once the document pan is on the swing arm mount, place Nut, Well #8-32 Neoprene onto the back of the document holder and line up the nuts with the holes on the top of the Document holder, take the Clip, Document Holder Clipboard and thread the Screw, 8-32 X .750 PPH MS through the clip, through the holes in the document holder, and finally through the neoprene nuts on the back of the document holder. Make sure all hardware is fully tightened and secure.