Quick Value
AMERICAN SERIES 915 ADJ. BENCHES

IAC INDUSTRIES
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915 HAND CRANK ADJ. HI
Assembly Instructions
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ATTENTION NOTES:

IAC Industries takes great care in the packing 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 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.

Power tools are NOT recommended unless they are equipped with a torque-limiting device which can limit the torque to 10-foot lbs maximum.

Unpack your order and separate like parts. Be careful not to damage parts as they are being moved 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 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. COPY OF VENDOR CERTIFICATE AVAILABLE UPON REQUEST.
# Parts List: 915 Hand Crank Adjustable Bench
(Ref. Figure 1)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty.</th>
<th>Item</th>
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<td>Work surface</td>
<td>1</td>
<td>D</td>
<td>Bolt, ¼-20 x .750 SQH Black GR2</td>
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<tr>
<td>2</td>
<td>930 Leg Sub-Assy-Rt &amp; Lt</td>
<td>1ea</td>
<td>E</td>
<td>Screw, 10-32 x 3.00 PHP Black</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Front Support Beam 1.5H</td>
<td>1</td>
<td>F</td>
<td>Washer, #10 Flat Zinc</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>930 Modesty Panel 930/940</td>
<td>1</td>
<td>G</td>
<td>Nut, #10-32 Hex Keps Black</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H</td>
<td>Cap, 2.00 x 3.00 10-14 GA Black</td>
<td>4</td>
</tr>
<tr>
<td>A</td>
<td>Bolt, ¼-20 x .750 HHW Black</td>
<td>4</td>
<td>J</td>
<td>Floor Glide 5/16-18 x 1.75 x 1.625DIA</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Washer, ¼ Flat Black</td>
<td>27</td>
<td>K</td>
<td>Bracket, 950/960-QS Hand Crank 1.50H</td>
<td>1</td>
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<tr>
<td>C</td>
<td>Nut, ¼-20 Hex Keps Black</td>
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<td>Screw, #6 x .500 PPH SMS Zinc</td>
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<td>Cable Tie, Mount Plastic (#6)</td>
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<tr>
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<td>P</td>
<td>Screw, #14AB x .625 PPH SMS Black</td>
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</table>

**Hardware Kit QV-HWR4061**

- 1/4-20x .75 HH Bolt
- 1/4-20 Flat washer
- 1/4-20 Hex keps nut
- ¼-20x.75 Bolt
- 10-32x 3L PHP Blk Screw
- Washer #10 flat zinc
- #10-32 Nut, Hex Keps
- 2X3 10-14 Ga Cap, Black
- 5/16-18x1.75 Floor Glide
- 950/960 Hand Crank
- #6x.500 PPH Screw SMS Zinc
- #6 Cable Tie Mount Plastic
- Cable Tie, 8"
- Screw, #14ABx6.25 PPH SMS Blk

**CAUTION:** Do not operate hand crank cylinders without the weight of the work surface on the frame. To do so may cause a vacuum in the lines and possible damage to the system. Be cautious to hold the leg assemblies together when turning workbench over after assembly making sure they do not separate.
Reference Assembly Drawing below:

It may take as many as 4 people to assemble this bench.

1. Place worksurface (item 1) on clean surface underside facing up to be installed later. Install the four floor glides (item J) and the four black bottom end cap (item H) to each end of the leg assemblies.

2. Loosely attach front beam (item 3) to leg assemblies (item #2) using (item D) Bolt, ¼-20 x .750 SQH Black GR2 and Washer 1/4 Flat black (item B).

3. Loosely attach modesty panel (item 4) to leg assemblies using three 1/4-20x3/4 square head bolts (item D) in the rear slots of each of the legs (note: Square head bolts slides into the rear of the aluminum channels) and1/4 flat washers (item B) and 1/4-20 hex nuts (item C). Then, at the top of each end of the modesty panel is another slot that aligns with a hole in the worksurface support at the top of each leg (item 2). Use a hex head bolt, two washers and a hex nut to attach at each top end (items A, B, and C).
4. Place the worksurface on top of the frame and loosely attach it to the beam and pedestal legs using the #14AB x 0.625 screws (Item P) and 1/4 washers (Item B) screwed into the 3/16 pilot holes drilled in the bottom of the worksurface. Do not tighten completely as some adjustment will be needed later.

5. Loosely attach hand crank rear mounting bracket (item K) to the rear of pump system using 10-32 x 3.00 phillips screw (item E), #10 Washer (item F) and Nut, #10-32 Hex Keps Black (item G) as shown in Figure 2 below.

6. Square the frame up on the worksurface and tighten up all fasteners. Be careful not to over tighten as the screws may strip out.

7. Secure the front end of hand crank pump system to front beam using #10-32 x 3.00 phillips screws (item E) and #10 flat washers (item F) and #10-32 hex nuts (item G). Tighten bolts and screws as shown in Figure 2 below.

8. Raise the leg assemblies to their highest point by turning the hand crank clockwise. Secure hand crank pump hydraulic lines to underside of worksurface using cable mounts (items M), cable ties (items N) and #6x.500 Phillips Screws (items L) being sure not to kink or damage the lines in anyway.

9. Lower the bench slowly making sure to see that the pump hydraulic lines will not hang up on anything. At this point raise and lower the bench to verify it is operating correctly.

10. When moving bench into it place be sure to lift it by the bottom base part of the leg assemblies only. DO NOT lift it by the worksurface or the top part of the frame as this can cause damage to the hydraulic system.

Figure 2
ESD GROUNDING: (HWR-014)

ESD refers to the OPTIONAL static dissipative laminate used on the bench. The laminate has a conductive under layer that comes in contact with the factory installed grounding bolts in the worksurface. The ESD grounding kit, including the 10 ft. grounding wire must be attached and the bench must be properly grounded to your facility earth ground. (See below for grounding cautions!) The eyelet slips over the bolt end and the alligator clip attaches to ground. When tested with a megohmmeter the ground bolts should test at 1 \( (1 \times 10^6) \) to 1000 \( (1 \times 10^9) \) in accordance with EOS/ESD standards prescribed in EOS/ESD document S4.1-1990 Worksurfaces-Resistive Characterization. For specific details on grounding the bench consult EOS/ESD document S6.1-1991 Grounding - Recommended

GROUNDING CAUTIONS:

1.) Ground each bench individually to ground, NEVER to each other in a continuous daisy chain.
2.) ISOLATED ground receptacles should not be used to derive an ESD ground.
3.) The green wire in a standard wall duplex can be used as a ground if it has been absolutely determined that the green wire is attached to earth ground in your facility, thereby providing a real earth ground.
4.) Each component of an ESD station should be connected to the same common ground point. In other words, use only ONE of the ground bolts as a path to ground. There are 2 installed for convenience only, or in the event you purchase a continuous resistance monitor.
Grounding Cautions (Continued) ............

5.) **DON'T use power tools** to install the nuts for the grounding kit. HAND TIGHTEN ONLY. If you attempt to 'spin' the ground bolt, the serrated teeth under the head of the bolt might strip the thin conductive layer.

**NOTE:** If benches are moved to another location, the ground bolts in the worksurfaces should be re-tested. Refer to EOS/ESD document S4.1-1990 Worksurfaces-Resistive Characterization for proper testing methods. If ground has been disturbed between the bolt and the static dissipative laminate, DO NOT OVER TIGHTEN ground bolts to achieve proper ground. If ground cannot be re-established, loosen nuts underneath bolt and remove ground bolt from hole. It may be necessary to hold the threads of the bolt with a small screwdriver in order to stabilize it to remove the nuts.

Paint a thin layer of CONDUCTIVE ADHESIVE or CONDUCTIVE PAINT on the small "ledge" of conductive laminate where the bolt head rests and underneath THE HEAD of the ground bolt. Set bolt back into the hole while liquid is still wet and test ground immediately. At the point ground is reestablished, let the liquid dry before reattaching the ground wire.

**CLEANING:**

Hard surface laminate is designed to resist abrasion, scuffing, scorching, hot solder, flux and most solvents. Intense exposure, such as from a hot soldering iron is not recommended. The surface cleans easily with a damp cloth and soapy water. A mild chemical cleaner with no abrasive can be used for stubborn spots. Remove glue and grease with a non flammable adhesive solvent such as 3M Scotch-Grip Solvent No. 4-F. Stains can be removed with a two minute exposure to a 5% hypo chloride bleach solution, followed by a clean water rinse. Never wax surface, as waxes may insulate.
Quick Value
QV AMS 925 Motorized Adjustable Bench

IAC INDUSTRIES
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QV925 HAND CRANK ADJ. HI
Assembly Instructions
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Tools required to assemble your 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.

Power tools are NOT recommended unless they are equipped with a torque-limiting device which can limit the torque to 10-foot lbs. maximum.

Unpack your order and separate like parts. Be careful not to damage parts as they are being moved 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 at 800-989-1422.

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## Parts List: 925 Motor Adjustable Bench
(Ref. Figure 1)

<table>
<thead>
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<td>1</td>
<td>Work surface</td>
<td>1</td>
<td>D</td>
<td>Bolt, ¼-20 x .750 SQH Black GR2</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>940 Leg Sub-Assy-Rt &amp; Lt</td>
<td>1ea</td>
<td>E</td>
<td>Screw, 10-32 x 3.00 PHP Black</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Front Support Beam 1.5H</td>
<td>1</td>
<td>F</td>
<td>Washer, #10 Flat Zinc</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>930/940 Modesty Panel</td>
<td>1</td>
<td>G</td>
<td>Nut, #10-32 Hex Keps Black</td>
<td>3</td>
</tr>
<tr>
<td>A</td>
<td>Bolt, ¼-20 x .750 HHW Black</td>
<td>1</td>
<td>H</td>
<td>Cap, 2.00 x 3.00 10-14 GA Black</td>
<td>4</td>
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<td>B</td>
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<td>C</td>
<td>Nut, ¼-20 Hex Keps Black</td>
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<td>J</td>
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<td>Cable Tie, Mount Plastic (#6)</td>
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<td>Cable Tie, 8”</td>
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<td></td>
<td>P</td>
<td>Screw, #14AB x .625 PPH SMS Black</td>
<td>15</td>
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</tbody>
</table>

### Hardware Items

- 1/4-20 x .75 HH Bolt
- 1/4-20 Flat washer
- ¼-20 Hex keps nut
- ¼-20 x .75 Bolt
- 10-32 x 3L PHP Blk Screw
- Washer #10 flat zinc

- #10-32 Nut, Hex Keps Cap, Black
- 2X3 10-14 Ga Screw SMS Zinc
- 5/16-18x1.75 Cap, Black
- #6 Cable Tie 8” Mount Plastic
- #6x .500 PPH Screw SMS Zinc
- Cable Tie, 8” Screw, #14ABx6.25 PPH SMS Blk

**CAUTION:** Do not operate Adj. motor without the weight of the work surface on the frame. To do so may cause a vacuum in the lines and possible damage to the system. Be cautious to hold the leg assemblies together when turning workbench over after assembly making sure they do not separate.
Reference Assembly Drawing below:

It may take as many as 4 people to assemble this bench.

1. Place worksurface (item 1) on clean surface underside facing up to be installed later. Install the four floor glides (item J) and the four black bottom end cap (item H) to each end of the leg assemblies.

2. Loosely attach front beam (item 3) to leg assemblies (item #2) using (item D) Bolt, ¼-20 x .750 SQH Black GR2 and Washer 1/4 Flat black (item B).

3. Loosely attach modesty panel (item 4) to leg assemblies using three 1/4-20x3/4 square head bolts (item D) in the rear slots of each of the legs (note: Square head bolts slides into the rear of the aluminum channels) and1/4 flat washers (item B) and 1/4-20 hex nuts (item C). Then, at the top of each end of the modesty panel is another slot that aligns with a hole in the worksurface support at the top of each leg (item 2). Use a hex head bolt, two washers and a hex nut to attach at each top end (items A, B, and C).
4. Install the Motor Cover / Pump to the back of the Modesty Panel. There are five threaded inserts in the front of the Motor Cover that line up with five slots on the Modesty Panel. Attach with five 1/4-20 x .75 hex head bolts (Item A) and 1/4 flat washers (Item B).

5. Place the worksurface on top of the frame and loosely attach it to the beam and pedestal legs as well as the three screws for the motor cover using the #14AB x .625 screws (Item P) and 1/4 washers (Item B) screwed into the 3/16 pilot holes drilled in the bottom of the worksurface. Do not tighten completely as some adjustment will be needed later.

**NOTE:** Before attaching the worksurface, make sure that the hydraulic lines and the switch cable will not be pinched or crushed by the Modesty Panel.

6. Square the frame up on the worksurface and tighten up all fasteners. Be careful not to over tighten as the screws may strip out.
7. Mount the motor switch at this point. Install the switch to the front beam using two #10-32 screws (Item E) and #10-32 nuts (Item F) and #10 flat washers (item G).

8. Raise the leg assemblies to their highest point by using the motor control switch. Secure the motorize pump hydraulic lines to underside of worksurface using cable mounts (items M), cable ties (items N) and #6x.500 Phillips Screws (items L) **being sure not to kink or damage the lines in anyway.**

9. Lower the bench slowly making sure to see that the pump hydraulic lines will not hang up on anything. At this point raise and lower the bench to verify it is operating correctly.

10. When moving bench into it place be sure to lift it by the bottom base part of the leg assemblies only. **DO NOT** lift it by the worksurface or the top part of the frame as this can cause damage to the hydraulic system.
ESD GROUNDING:
HWR014 ESD Hardware Kit

ESD refers to the OPTIONAL static dissipative laminate used on the bench. The laminate has a conductive under layer that comes in contact with the factory installed grounding bolts in the worksurface. The ESD grounding kit, including the 10 ft. grounding wire must be attached and the bench must be properly grounded to your facility earth ground. (See below for grounding cautions!) The eyelet slips over the bolt end and the alligator clip attaches to ground. When tested with a megohmmeter the ground bolts should test at 1 (1x10⁶) to 1000 (1x10⁹) in accordance with EOS/ESD standards prescribed in EOS/ESD document S4.1-1990 Worksurfaces-Resistive Characterization. For specific details on grounding the bench consult EOS/ESD document S6.1-1991 Grounding - Recommended.

GROUNDING CAUTIONS:
1.) Ground each bench individually to ground, NEVER to each other in a continuous daisy chain.
2.) ISOLATED ground receptacles should not be used to derive an ESD ground.
3.) The green wire in a standard wall duplex can be used as a ground if it has been absolutely determined that the green wire is attached to earth ground in your facility, thereby providing a real earth ground.
4.) Each component of an ESD station should be connected to the same common ground point. In other words, use only ONE of the ground bolts as a path to ground. There are 2 installed for convenience only, or in the event you purchase a continuous resistance monitor.
Grounding Cautions (Continued) …………..

5.) **DON’T use power tools** to install the nuts for the grounding kit. HAND TIGHTEN ONLY. If you attempt to ‘spin’ the ground bolt, the serrated teeth under the head of the bolt might strip the thin conductive layer.

**NOTE:** If benches are moved to another location, the ground bolts in the worksurfaces should be re-tested. Refer to EOS/ESD document S4.1-1990 Worksurfaces-Resistive Characterization for proper testing methods. If ground has been disturbed between the bolt and the static dissipative laminate, DO NOT OVER TIGHTEN ground bolts to achieve proper ground. If ground cannot be re-established, loosen nuts underneath bolt and remove ground bolt from hole. It may be necessary to hold the threads of the bolt with a small screwdriver in order to stabilize it to remove the nuts.

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Quick Value
ALL AMERICAN SERIES WORK BENCHES

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

QS Value Line DWR
Assembly Instructions
PLEASE NOTE:
Quick Ship 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.

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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.

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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<td>E</td>
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<td>F</td>
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<td>Nut, ¼-20 Unistrut Long Spring N-2-4</td>
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<tr>
<td>H</td>
<td>Brkt, DWR Hanger 3.00X12.00L VL</td>
</tr>
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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

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<td>Lock Retainer</td>
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</tr>
<tr>
<td>Lock Body</td>
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<tr>
<td>Set Of Lock Keys</td>
<td>1</td>
</tr>
<tr>
<td>Two Keys</td>
<td></td>
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</table>

Lock Bill of Materials

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>Lock Retainer</td>
<td>1</td>
</tr>
<tr>
<td>Lock Body</td>
<td>1</td>
</tr>
<tr>
<td>Set Of Lock Keys</td>
<td>1</td>
</tr>
</tbody>
</table>
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.
PLEASE NOTE:

Quick Ship 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**

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![Mounting Plate Screws](Image 1)

![Electrical Mounting Plates](Image 2)

**Hardware Kit Components**

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Mounting Plate Screws</td>
<td>4</td>
</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.
QS-All American Series Electrical

Finished assembly shown below:
Quick Value
ALL AMERICAN SERIES INSTRUMENT SHELVES

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

QV Value Line
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<td>4</td>
<td>QV American Series Instrument Shelf (Steps 1-3)</td>
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<tr>
<td>5</td>
<td>Instrument Shelf Hole pattern</td>
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<tr>
<td>6</td>
<td>ESD Grounding</td>
</tr>
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</table>

**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.

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

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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:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt, #14A X .75 SMS HWD BLK</td>
<td>4</td>
</tr>
<tr>
<td>Washer ¼ Flat Black</td>
<td>2</td>
</tr>
<tr>
<td>Screw, ¼-20 X .500 PPH “F” Black</td>
<td>8</td>
</tr>
<tr>
<td>Washer, ¼ Flat Fender Black</td>
<td>28</td>
</tr>
</tbody>
</table>

WORKBENCH CONTENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>Instrument Shelf Work surface</td>
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</tr>
<tr>
<td>Riser Box Body</td>
<td>2</td>
</tr>
<tr>
<td>Supt beam channel</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 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.
Quick Value
ALL AMERICAN SERIES Slotted Uprights

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

QV Value Line
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<td>Pre-assembly Check List</td>
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<tr>
<td>3</td>
<td>QV American Series UPRIGHTS.</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:**

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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.

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:

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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-HWR4101:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Cap 1.25 x 2&quot; STE Post</td>
<td>(x2)</td>
</tr>
<tr>
<td>Bolt 3/8-16x2.5 full thread</td>
<td>(x4)</td>
</tr>
<tr>
<td>Washer 3/8 Flat Zinc</td>
<td>(x4)</td>
</tr>
<tr>
<td>Nut 3/8-16 hex Keps</td>
<td>(x2)</td>
</tr>
<tr>
<td>Insert Cap Nut</td>
<td>(x2)</td>
</tr>
<tr>
<td>Bolt, 1/4-20X1.00HH</td>
<td>(x2)</td>
</tr>
<tr>
<td>Washer 1/4 Flat Black</td>
<td>(x2)</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

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 - Insert the upright caps into the top of the uprights.
Step 2- NOTE: See the next page for directions on where to drill through holes for your uprights. Once the holes have been drilled, you are now ready to install the uprights. Take one upright and align the holes on the work surface to the holes that are at the bottom of the upright. Using the BOLT 3/8-16 X 2.50 FULL THREAD BLACK along with WASHER 3/8 FLAT ZINC thread the bolt through the slot in the upright and down through the work surface. Tighten the bolt using the NUT 3/8-16 HEX KEPS BLACK and both of the washers, the flat black washer, and also the 3/8 flat zinc washer. Now take BOLT 3/8-16 X 2.50 FULL THREAD BLACK and the 3/8 flat zinc washer. Thread them up into the work surface and into the upright and tighten the hardware. Make sure all hardware is tightened and secure.
Below is the hole pattern for the uprights.

PLEASE NOTE: THIS HOLE PATTERN APPLIES TO BOTH SIDES OF THE WKSF, SO A TOTAL OF 4 HOLES WILL NEED TO BE DRILLED.
Quick Value
ALL AMERICAN SERIES SHELF 915-925

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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.

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.

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If your order has ESD work surfaces or accessories please review page 5 for helpful instructions and cautions before you begin assembling the workstations.
WARNING:

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HARDWARE KIT QS-HWR4021:

BRKT, VL Shelf 10.25L RT
BRKT, VL Shelf 10.25L LT
Bolt, ¼-20 X .75 HHW BLK
Washer ¼ Flat Black
Nut, Unistrut ¼-20 Short Spring

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRKT, VL SHELF 10.25L RT</td>
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</tr>
<tr>
<td>BRKT, VL SHELF 10.25L LT</td>
<td>1</td>
</tr>
<tr>
<td>BOLT 1/4-20 X .75 HHW BLK</td>
<td>4</td>
</tr>
<tr>
<td>WASHER 1/4 FLAT BLK</td>
<td>4</td>
</tr>
<tr>
<td>NUT UNISTRUT 1/4-20 SHORT SPRING</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**  
Shelf Assembly

**Step 1** - First, insert the Nuts, Unistrut ¼-20 Short Spring provided to the bottom of the shelf body, once they set in the shelf body align the holes of the Spring nuts with the slots on the VL Shelf Brkts and use the Bolts, ¼-20 X .75 HHW BLK provided to connect the brackets to the shelf body. Make sure all hardware is tightened and secure.

**Step 2** - At this time you may clip in the shelf onto the slotted post uprights.
ESD Grounding

HARDWARE KIT HWR115 - HWR014 (Reference only)

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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<td>4</td>
<td>QV American Series BIN RAIL.</td>
</tr>
</tbody>
</table>

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- Utility knife.
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QV-All American Series
BIN RAIL

**Step 1** - Snap into slotted posts at desired height.
Quick Value

ALL AMERICAN SERIES SLOTTED UPRIGHT LIGHT FIXTURE

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. COPY OF VENDOR CERTIFICATE AVAILABLE UPON REQUEST.

PRE ASSEMBLY CHECK LIST

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HARDWARE KIT QV-HWR4055:

Bolt, 1/4-20 X 1.00 HH BLACK
1/4" Flat Washer
Unistrut Short Spring N-5
CAP, 1.25"X1.25" 16GA BLACK

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOLT, 1/4-20 X 1.00 HH BLACK</td>
<td>4</td>
</tr>
<tr>
<td>Washer, ¼ Flat Black</td>
<td>4</td>
</tr>
<tr>
<td>Nut, ¼-20 Unistrut Short Spring N-5</td>
<td>2</td>
</tr>
<tr>
<td>CAP, 1.25&quot;X1.25&quot; 16GA BLACK</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**
**LT Light Fixture Assembly**

**Step 1:** Read the Note below before continuing. Once the Bolts, 1/4-20 X 1.00 HH BLACK and 1/4 flat washers 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 fixture, 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. Also you may insert the Caps, 1.25”X1.25” 16GA BLACK into the end of the light support beams.

**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 Bolts, 1/4-20 X 1.00 HH BLACK and 1/4 flat washers provided, feed them into the two support channels through the bottom of the uprights connecting the light fixture/channel assembly to the two supports. Make sure all hardware is fully tightened and secure. At this time you may snap your Light fixture assembly into the slotted uprights at the desired height.
Quick Value
ALL AMERICAN SERIES FPD SWING ARM UNIVERSAL SPM

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**HARDWARE KIT QS-HWR4122:**

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>KNOB, TRI-WHEEL</td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot; FLAT WASHER</td>
<td>2</td>
</tr>
<tr>
<td>BOLT, 1/4-20 X .750 CARRIAGE ZINC</td>
<td>2</td>
</tr>
<tr>
<td>BRACKET, AMS FPD AMS SPM REAR</td>
<td>1</td>
</tr>
<tr>
<td>BRACKET, AMS FPD AMS SPM FRONT</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
QV American Series Swing Arm FPD

Step 1- First; feed Carriage Bolts through rear of both brackets provided (confirm which bracket is FRONT and REAR), making sure the Carriage Bolts snap into place. Next, feed the Carriage Bolts through the swing arm assembly. Feed through and place a washer over the threads of the bolts. Finish by tightening the Tri-Wheel Knobs.
Quick Value
ALL AMERICAN SERIES FPD KEYBOARD HOLDER

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REV. (042318P65)
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Phillips screwdriver 8” long.
Utility knife.
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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.
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Phillips screwdriver 8” long.
Utility knife.
Safety glasses and light duty protective gloves.

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HARDWARE KIT QV-HWR4116:

Knob, Tri-Wheel 1/4-20 1/4" Flat Washer Bolt, 1/4-20 X .750 Carriage Blk Nut, #10-32 Hex Keps Blk

Washer, #10 Flat BLK Screw, 8-32 X .75 PPH MS Clip, Doc. Holder Brkt, AMS FPD SPM REAR

HARDWARE KIT COMPONENTS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knob, Tri-Wheel 1/4-20 Insert Small</td>
<td>2</td>
</tr>
<tr>
<td>Washer, 1/4 Flat Black</td>
<td>2</td>
</tr>
<tr>
<td>Bolt, 1/4-20 X .750 Carriage Blk</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, AMS FPD SPM REAR</td>
<td>1</td>
</tr>
<tr>
<td>Brkt, AMS FPD SPM FRT</td>
<td>1</td>
</tr>
<tr>
<td>Brkt, AMS FPD SPM FRT</td>
<td></td>
</tr>
<tr>
<td>Nut, well #8-32 Neoprene</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
Document Holder SPM Assembly

Step 1: First, place the AMS FPD SPM FRT (square slots) BEHIND the AMS FPD SPM REAR bracket, thread the Bolt, 1/4-20x.750 Carriage through the brackets and also the swing arm mount. Once the bolt is threaded through use the Knob, Tri-Wheel 1/4-20 insert and 1/4 washer to connect the swing arm mount to the brackets. Make sure the hardware is fully tightened and secure. You may now clip the bracket/Swing arm assembly onto the slotted posts.

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.