

DIMENSION 4 ADJUSTABLE HEIGHT MOTORIZED WORKSTATION

(Rev 042318P65)

IAC INDUSTRIES

3831 S BULLARD AVE., GOODYEAR, AZ 85338

Phone (714) 990-8997 Fax (714) 990-0557

www.iacindustries.com

D4 ADJUSTABLE HEIGHT Assembly Instructions

Table Of Contents

Page #	
2	Pre-assembly Check List
3	D4 Adj Height Motorized Sub-assembly
4-11	Adj Height installation Instructions

ATTENTION NOTES:

Congratulations on your purchase of the Dimension 4 Adjustable Height Workstation. Please read through all the assembly instruction pages before you begin assembling your work station.

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.

WHILE THIS PRODUCT IS DESIGNED WITH SAFETY IN MIND, IMPROPER USE CAN RESULT IN INJURY TO THE OPERATOR AND DAMAGE TO THE PRODUCT. OPERATORS MUST BE FULLY TRAINED IN THE PROPER USE OF THIS WORKSTATION, FOR TRAINING ASSISTANCE PLEASE CONTACT YOUR LOCAL REPRESENTATIVE, THE COMPANY YOU PURCHASED THE PRODUCT FROM OR THE IAC INDUSTRIES FACTORY.



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.

Motorized Adjustable Height System Overview:

Item	Description	Qty	Item	Description	Qty
1	D4 Adj HGT Motorized Sub-Assy	1	4	D4 Adj HGT Rear Panel S/S	1
2	D4 Adj HGT Cyl Support Bracket	2	6	D4 Adj HGT Outer Cover RT	1
3	D4 Adj HGT Ext. Guide Sub-Assy	2	7	D4 Adj HGT Outer Cover LT	1

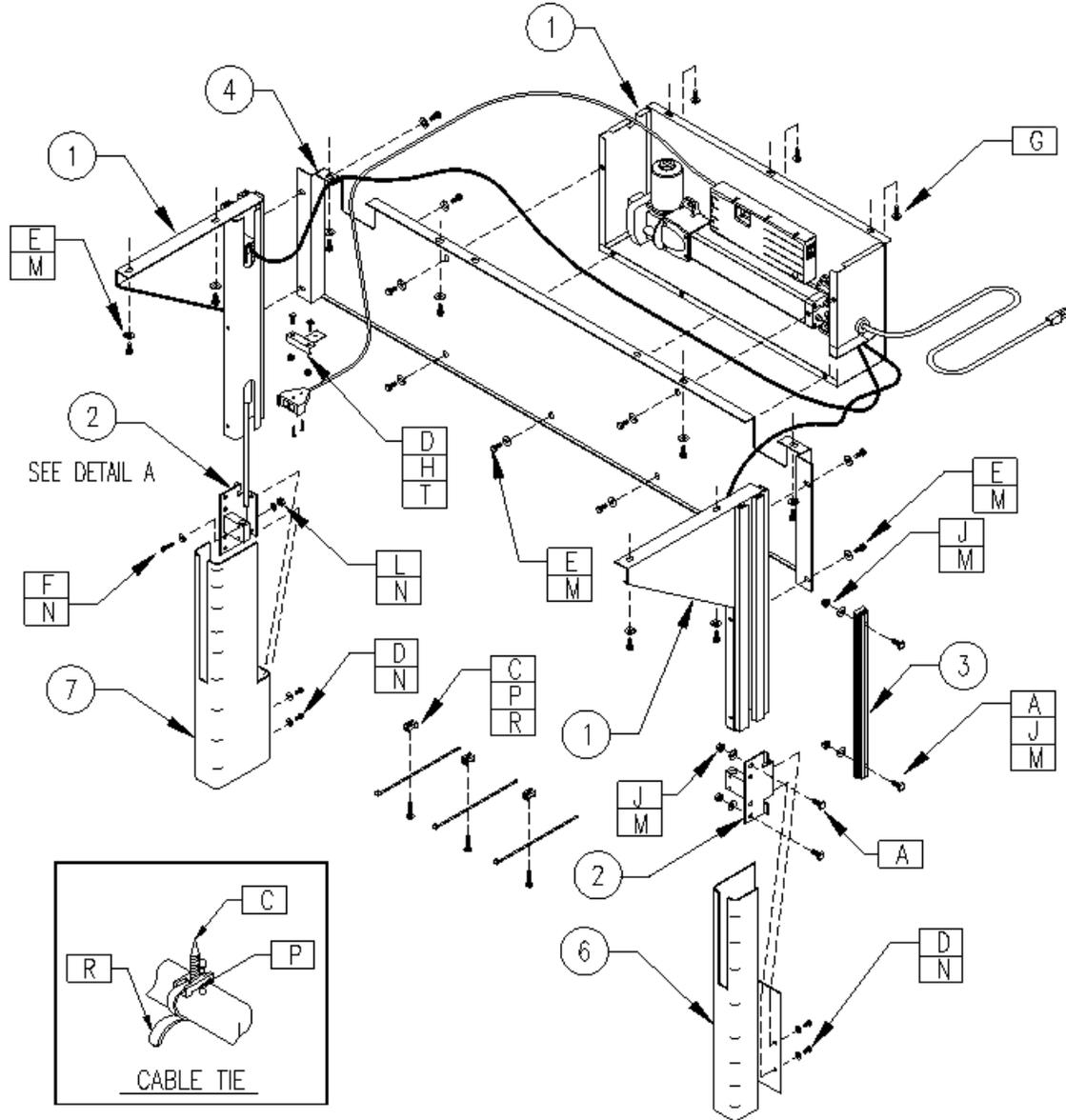


Figure 1

Note: For Basic Assembly Instructions to the D4 Bench please use the D4 Assembly Instructions included with your shipment. Before starting the assembly of the bench you must decide on the desired starting height of the worksurface. The starting height will be used to establish the location of many components of the adjustable height system and other bench options such as electrical channels, shelving, footrests and suspended cabinets. When determining adjustment height range of the worksurface, consider the height location of options such as electrical outlets

in the uprights. Some bench uprights have electrical outlets at 42" from the floor and interconnect cables from upright to upright under the worksurface that could be damaged if the adjustable range is not set correctly. If a higher starting height is needed you may need to make modifications to your worksurface to avoid the outlets and power cords that may be plugged in while the bench is in use. If a lower starting height is needed be sure to check that interconnect cables are not affected by any of the adjustable height system components. After assembly is complete, test the movement of the system to be sure the outlets, power cords and interconnects will not be damaged.

STEP 1: Locate basic bench hardware kit HWR214 for SINGLE SIDED. Locate the hardware kit for the adjustable height unit. Use hardware kit HWR297.

STEP 2: Assemble the 2 uprights of the bench to the rear modesty panel as shown in Figure 2 below using 5/16-18 x .75 square head bolts, 5/16 flat washers and 5/16 hex keps nuts. The top of the modesty panel must be placed 2.5" below the planed starting height of the top of the worksurface. The floor glides in the bases of the uprights must be set so the uprights are parallel to each other in both front to back and side to side. This alignment will make the rest of the assembly go much smoother.

Important Installation Note:

If the bench has a standard or flip-up ergonomic footrest, the footrest brackets need to be installed onto the uprights before mounting the cylinder support brackets shown in figure 3 on page 5, item #2. For footrest assembly instructions refer to the Dimension 4 bench assembly instructions.

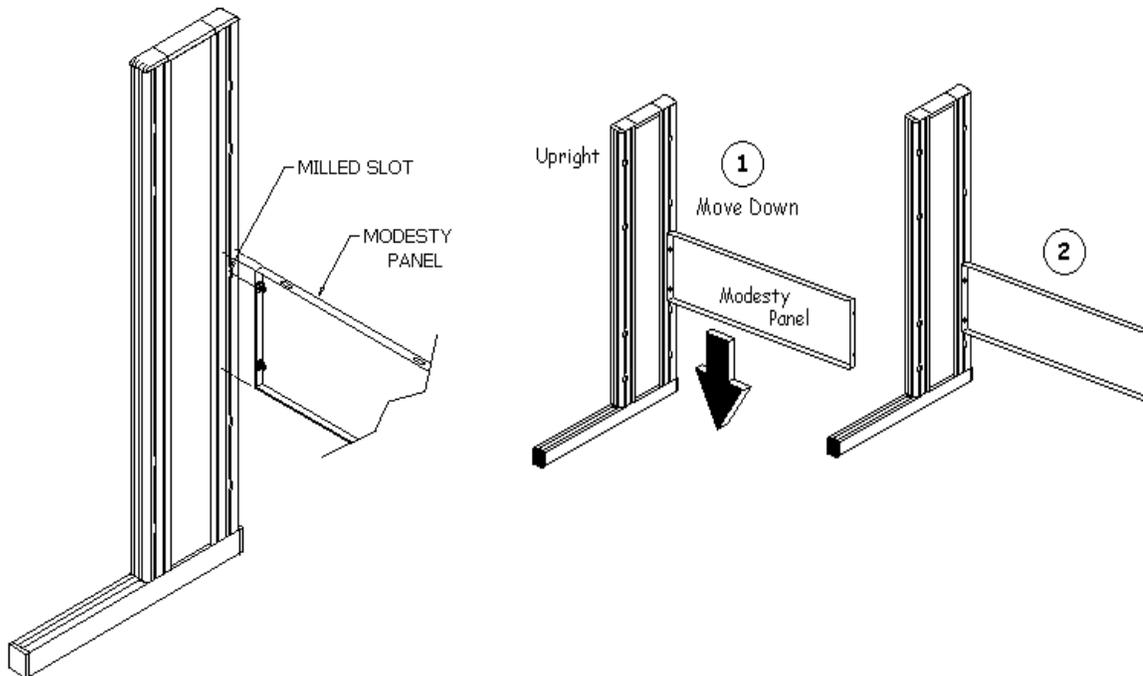


Figure 2

STEP 3: The location of the bottom of the cylinder support brackets for a 30" worksurface starting height is 7.5" from the floor. If your starting height is more or less than 30" add or subtract the difference in starting height to or from 7.5" to locate the cylinder support brackets on the uprights. **EXAMPLE:** for a worksurface starting height of 28" subtract 2" from 7.5" and set the brackets at 5.5" from the floor. Attach the cylinder support brackets shown in Figure 3 item #2, to the uprights using 5/16-18 x .75 square head bolts, 1/4 flat washers, and 5/16 hex keps nuts and tighten the nuts. **DO NOT OVER TIGHTEN.**

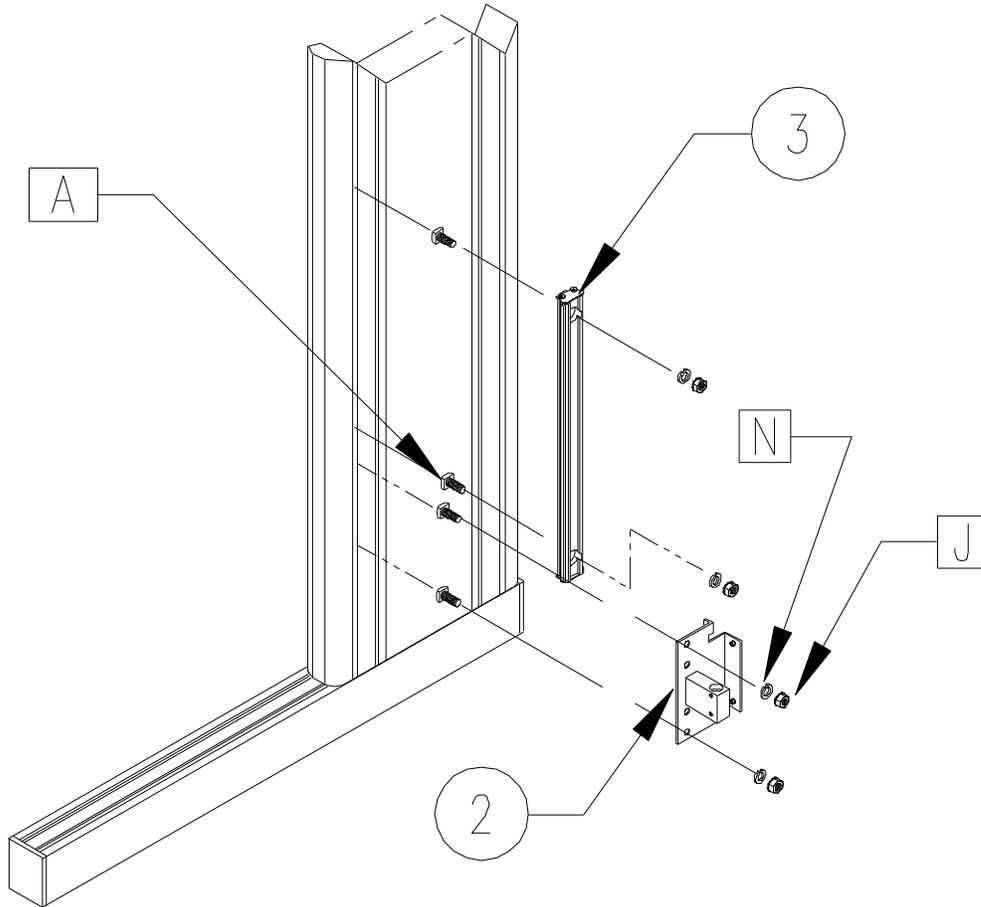


Figure 3

STEP 4: Remove the extruded guide assemblies, item 3 shown in Figure 3, from the worksurface support assemblies' item 1 shown in Figure 1 on page 3. Attach the extruded guide assemblies to the uprights using 5/16-18 square head bolts, 1/4 flat washers, and 5/16-18 keps nuts. Slide the guide assembly down to the top of the cylinder support bracket and tighten the nuts. **DO NOT OVER TIGHTEN.**

STEP 5: To attach the worksurface support assemblies item 1 of Figure 4 position the motor housing assembly between the bench uprights in front of the modesty panel. Plug the power cord of the motor housing assembly into a 115 VAC power source. Using the motor switch turn the motor system on in the UP direction so that the cylinder shafts extends approximately 8" out of the cylinder housing. Being careful not to damage the hydraulic lines carefully align the

worksurface support assemblies extruded aluminum runners shown in Figure 4 over the guide assembly attached to the uprights. Feed the end of the cylinder shaft into mounting hole in the cylinder support bracket as shown. Attach the cylinder shaft to the cylinder support bracket using 10-32 x 1.00 phillips machine screw, #10 flat washers and 10-23 hex keps nuts as shown in Figure 4. Tighten nuts. Repeat this for both sides of bench. **DO NOT LOWER** the pump system at this time.

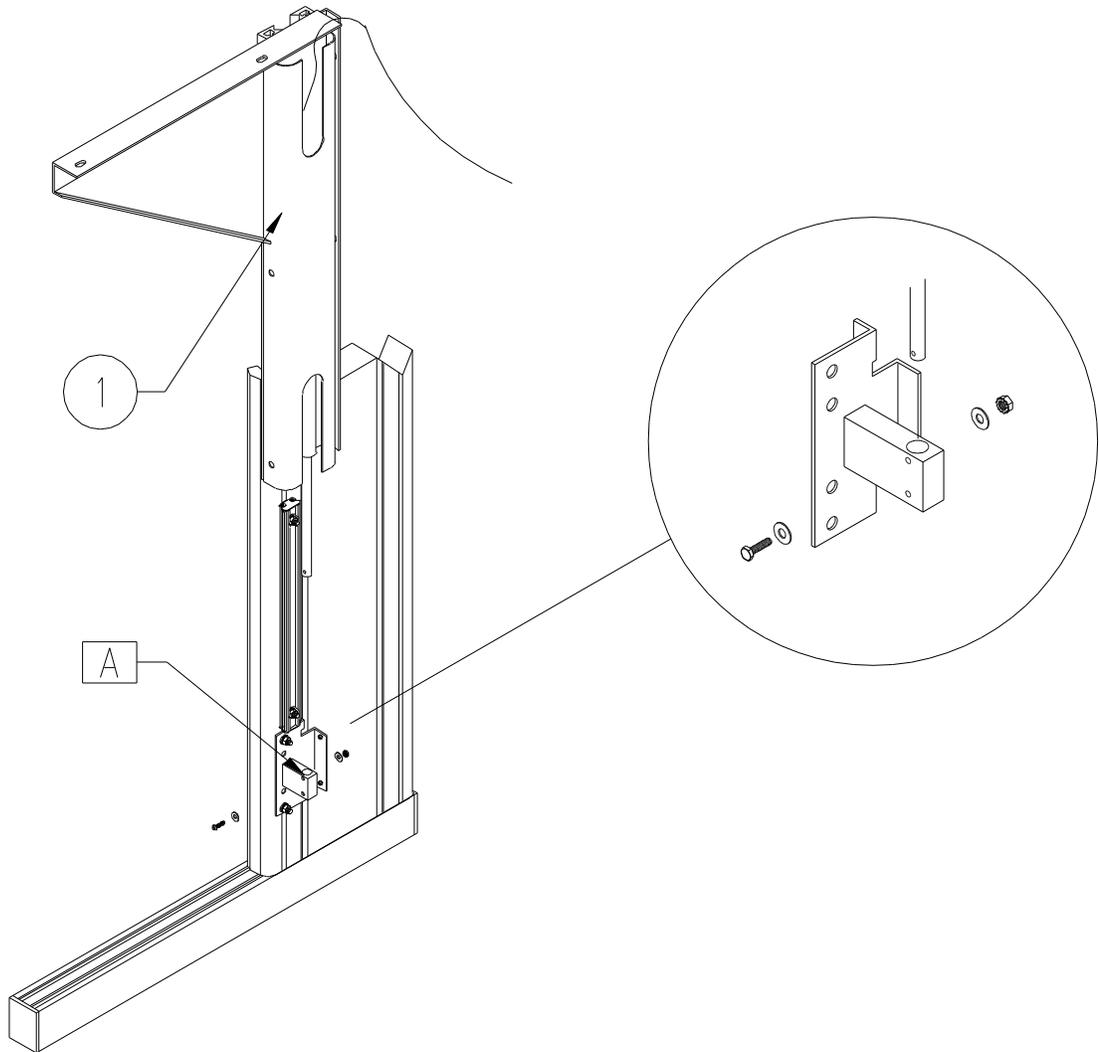


Figure 4

STEP 6: Attach the rear guard panel assembly item 4 Figure 5 to the back of the worksurface support assemblies item 1 Figure 5 using 1/4-20 x .75 hex head bolts item E and 1/4 flat washers item M as shown in Figure 5. **DO NOT** tighten this hardware. At this time lower the worksurface support assemblies to check to make sure they are fitted correctly. To do this apply weight or pressure to the top of both worksurface support assemblies and using the motor power switch turn the motor on in the **DOWN** direction. Lower the worksurface support assemblies to the bottom of their adjustment range. **DO NOT** turn the motor on in the down position without applying weight or pressure to the top of the worksurface support assemblies as this will cause damage to the hydraulic cylinders. Once lowered lift up and then push down gently on the front of the worksurface support assemblies to feel for movement in the system. There should be very

little movement of the worksurface support assemblies. If there is too much movement please see page 12 for instructions on making adjustments to remove the movement. Once any adjustments needed have been made attach the cylinder outer covers items 6 and 7 shown in Figure 5 using #10-32 x .50 phillips screws item D and #10 flat washers item N. Carefully align the cylinder covers so that they are in line with the worksurface support assemblies and tighten these screws. Using the motor power switch raise the worksurface support assemblies approximately 8" out of the cylinder housing.

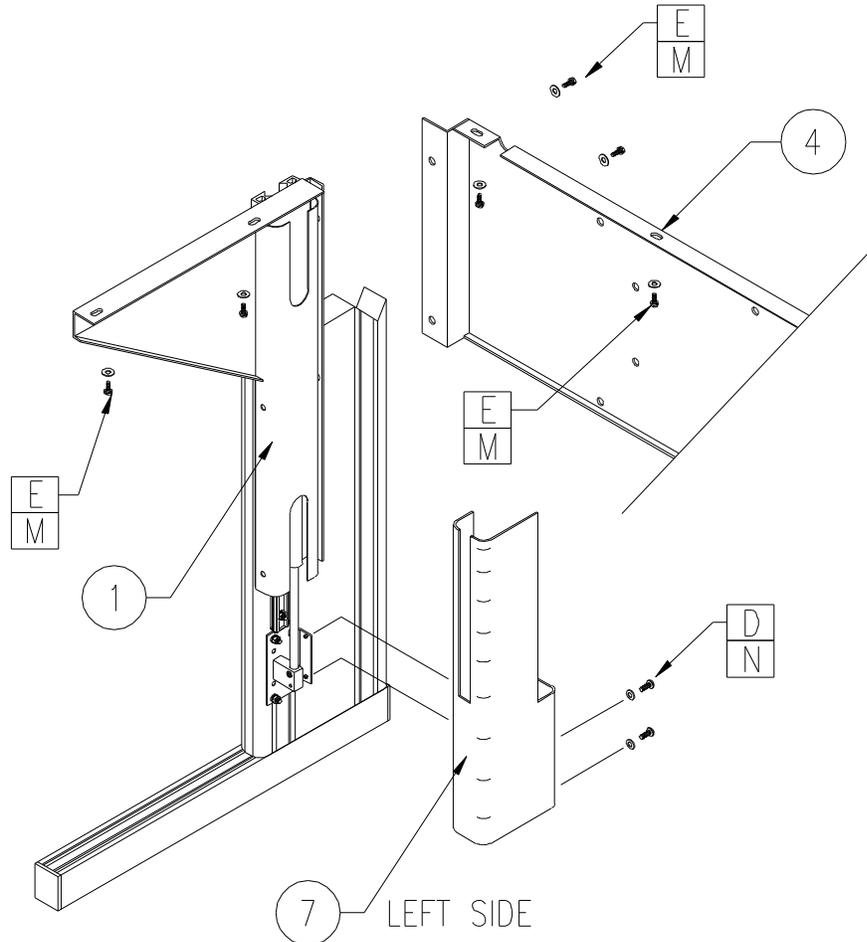


Figure 5

STEP 7: Being careful not to damage the hydraulic lines lift the motor housing assembly and attach it to the back of the rear guard panel using 1/4–20 x .75 hex head bolts and 1/4 washers through the front of the rear guard panel into the inserts in the motor housing assembly. Align the top of the motor housing assembly so that its top flange is flush with the top flange of the rear guard panel and tighten the hardware. Carefully organize the hydraulic lines, switch cord and power cord so that they will not be damaged when the worksurface is attached.

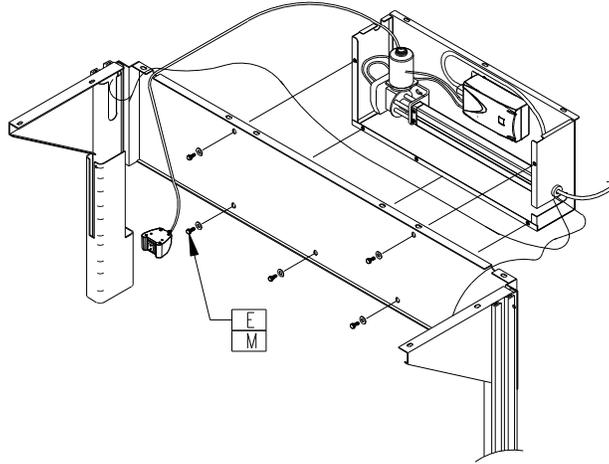


Figure 6

STEP 8: Assemble the worksurface hat sections to the underside of the worksurface as instructed in the D4 Assembly Instructions. Set the worksurface onto the worksurface support assemblies as shown in Figure 7 sliding it back between the bench uprights carefully so that it sits on top of the rear guard panel. Align the inserts in the underside of the worksurface with the slots in the worksurface support assemblies and the rear guard panel and thread the 1/4-20 x .75 hex head bolts item E and 1/4 flat washers item M into the inserts in the worksurface. **DO NOT TIGHTEN** hardware at this time.

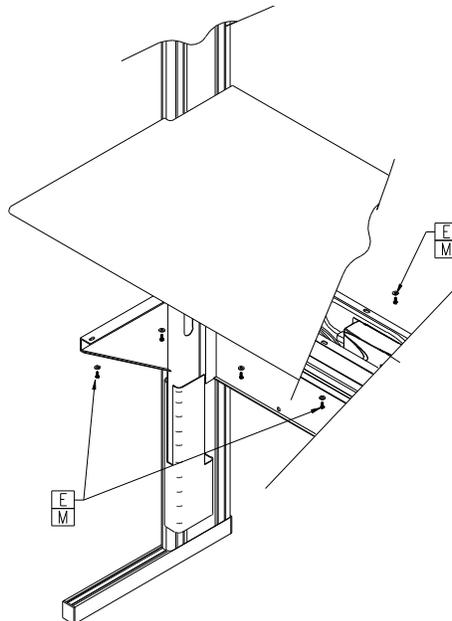


Figure 7

STEP 9: The bench frame must be squared, leveled and the worksurface centered between the uprights making sure the gap between the side worksurface cutouts and the uprights is equal. The gap between the front of the worksurface cutout and the front of the upright should be 1/16 of an inch minimum. Once the worksurface is in place all worksurface and rear guard panel

mounting hardware must be tightened, being careful not to over tighten the bolts that go into the worksurface. Using the motor power switch lower the worksurface to it's lowest point making sure the outer cylinder covers do not interfere with the worksurface hat sections and that all hydraulic lines are not pinched or kinked in any way as this will cause damage to the hydraulic system.

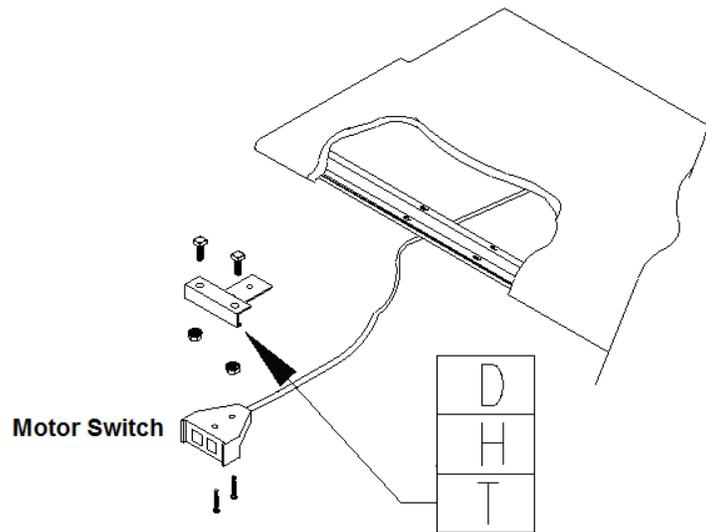
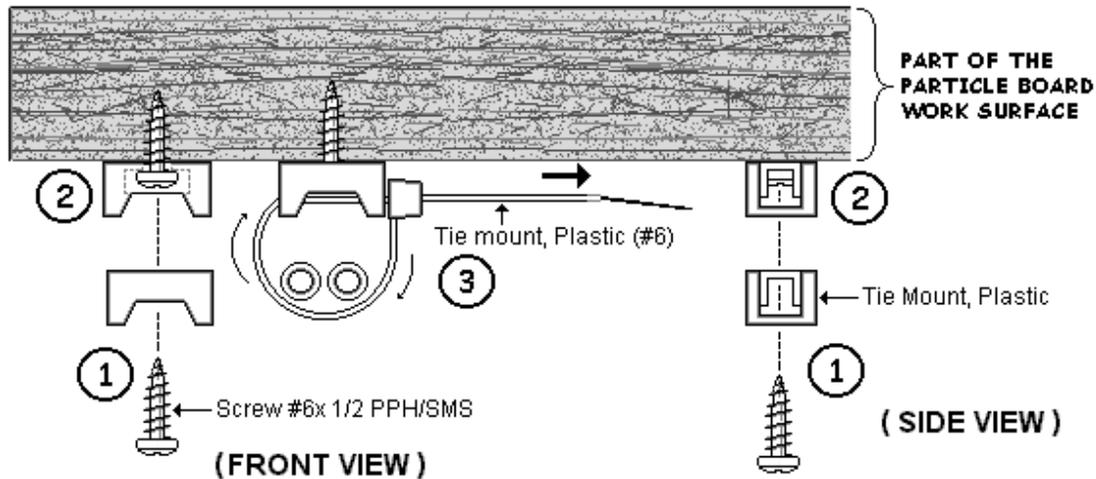


Figure 8

STEP 10: Select the side of the bench you want the motor power switch mounted and attach the motor switch bracket item T first using 2 1/4-20 x .500 square head bolts item D and 2 1/4-20 nuts item H to the worksurface hat section by feeding the screws through the switch bracket and loosely threading the nut onto the bolts. Slide the head of the Sq. Head bolt into the slot at the end of the front worksurface hat section and position as needed. Tighten the hardware being careful not to over tighten. Remove the pre-installed screws on the bracket and feed them through the body of the motor control switch. Do not over tighten. Once all hardware is tightened raise and lower the worksurface through it's full adjustment range a few times making sure it moves smoothly and that the hydraulic lines are not crimped or pinched in anyway and there are no interferences between the frame parts. If the worksurface does not raise and lower at the same rate on each end of the worksurface you may need to realign the worksurface mounting. To do this lower the worksurface to its lowest point, loosen all mounting hardware and realign the worksurface as described in step 7. Once realigning is complete tighten the hardware and test the adjustment range again. If the problem persists please contact your factory representative or the factory.

STEP 11: The hydraulic lines must be attached to the underside of the worksurface to prevent them from being damaged. It is best to coil these lines to take up the slack and then position them in places where they will not get pinched or crushed, such as between or behind the worksurface hat sections, drawers or other accessories.

Using the motor power switch raise the worksurface to its highest point. Attach the plastic zip tie holders item P to the underside of the worksurface in places where the hydraulic lines can move freely but are out of the way using the #6 x .50 Phillips screws item C. Feed the zip ties item R into the zip tie holders. Carefully coil the hydraulic lines, position them into the zip tie holders and attach them using the zip ties. Gently tighten the zip ties around the hydraulic lines being careful not to create any stress between the hydraulic lines and the cylinder fittings.



Moving the Completed Workstation:

When moving the workstation **DO NOT** lift workstation by the worksurface by hand or by forklift device. This will cause severe damage to the hydraulic system and void the manufacturer's warranty. The workstation must be lifted by the uprights and upright bases only and transported using furniture dollies of some kind. When the bench is in position it must be squared and leveled before it is placed in use. Test the operation of the workstation several times to be sure it moves freely throughout its adjustment range.

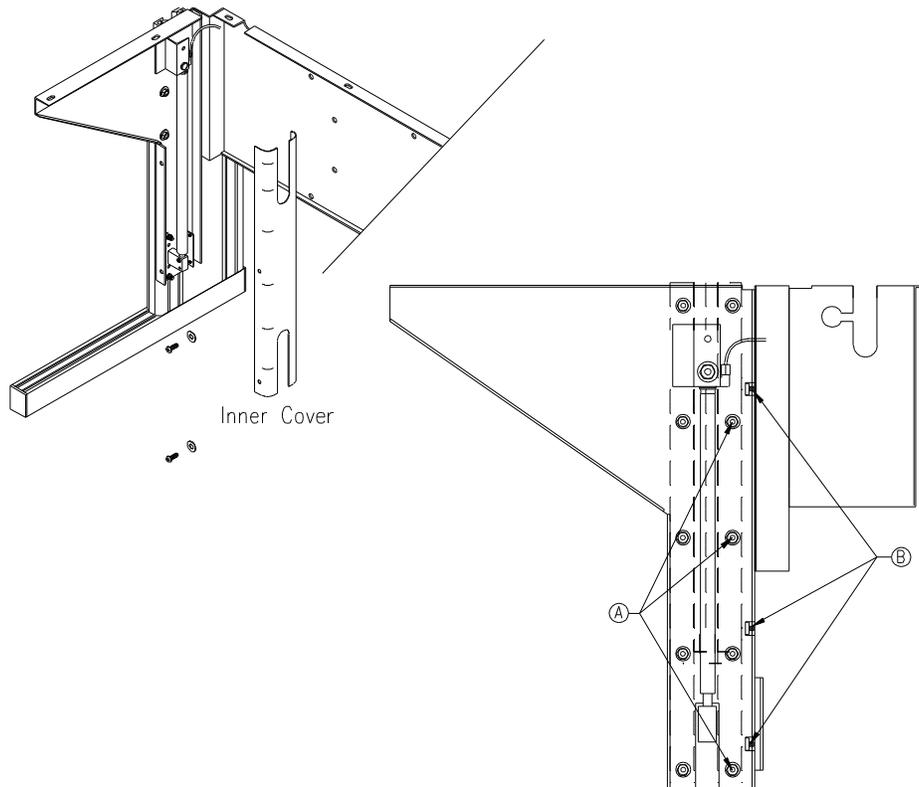


Adjusting Worksurface Support Assemblies

PLEASE NOTE: It is very important that you read through and understand all the instructions below before making any adjustments to the worksurface support assemblies. If you need assistance please contact IAC Industries customer service at 800-989-1422.

STEP 1: Lower the motorized system to its lowest point. Remove the inner cylinder cover from the worksurface support assembly that you are adjusting. Loosen the five nuts "A" at the rear edge of the worksurface support bracket as shown below with a 7/16" wrench. Loosen only 1/4 of a turn. DO NOT over loosen or remove these nuts.

STEP 2: Locate the three guide adjustment set screws "B" found at the back of the worksurface support assembly as shown. Using a 3/32" Allen wrench turn the set screw clockwise gently to tighten the two (2) set screws found at the top and middle of the worksurface support assembly. DO NOT over tighten. Raise the motorized system the minimum amount required to expose the lowest set screw. Gently tighten this set screw. DO NOT OVER TIGHTEN THE SET SCREWS.



STEP3: When all three (3) set screws have been adjusted retighten the five nuts that were lessened in Step 1. NOTE: these nuts are lock type so they do not need to be over tightened, however it is important that they are tightened enough to hold the guild runner in place.

STEP 4: After making adjustments to the worksurface support assemblies that require it run the motor system up and down through its entire adjustment range to make sure it moves freely and does not bind. If it does not move freely the adjustments made are too tight. Lower the system to its lowest point and readjust the set screw following the steps above. Once satisfied that the system is adjusted correctly reattach the inner cover and return to page 7.