

Movotec® ATU Workstation Kit Assembly Instructions



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1.0 Safety Instructions

READ ALL INSTRUCTIONS BEFORE ATTEMPTING TO INSTALL, OPERATE, OR SERVICE A MOVOTEC® ATU WORKSTATION.

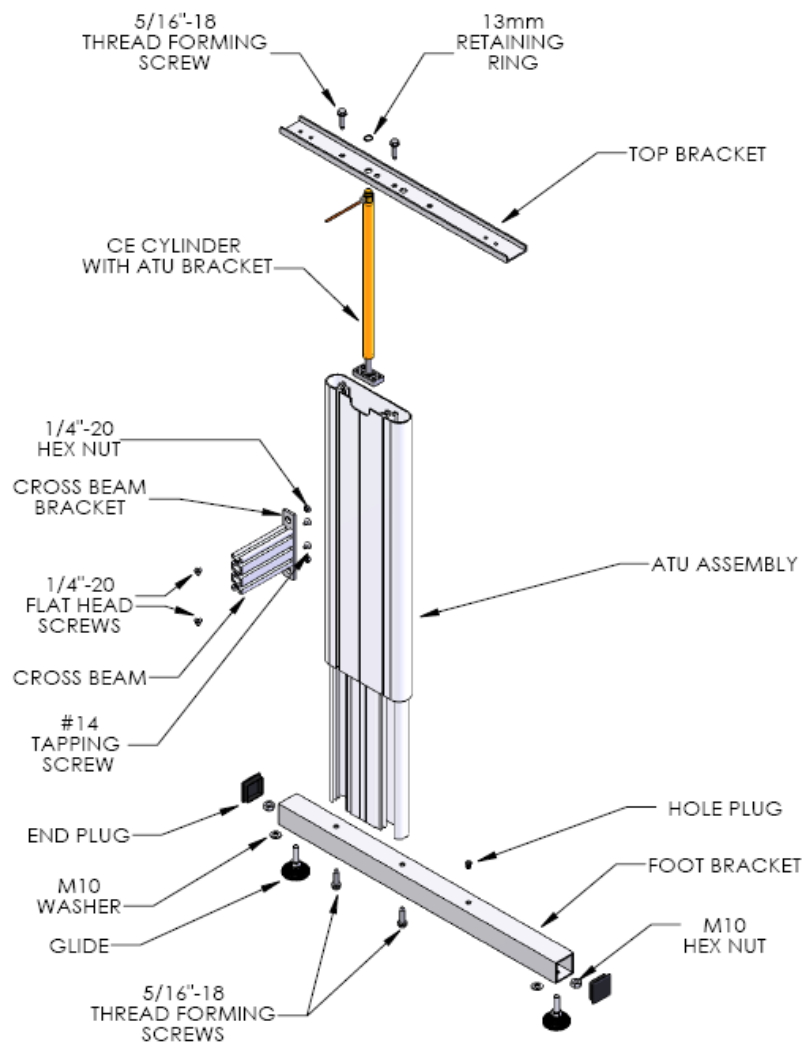
This document contains basic safety and installation instructions for assembling a Movotec® ATU Workstation Kit when used in conjunction with a Movotec® ATU and lift system. Please refer to Movotec® Crank Driven and E-Drive ATU Lift System Manuals for detailed lift system safety, installation, operation, troubleshooting, and maintenance instructions. Suspa® Incorporated is not responsible for any alteration, misuse, misapplication, or abuse of this product resulting in property damage, personal injury or death.



WARNING

FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS DOCUMENT COULD RESULT IN FIRE, PROPERTY DAMAGE, ELECTRIC SHOCK, PERSONAL INJURY OR DEATH.

2.0 Component Callout



3.0 Component List

The Movotec® ATU Workstation Kit includes:

- (2) - Foot brackets
- (2) - Top brackets
- (2) - Cross beam brackets
- (1) - Cross beam
- (8) - 5/16"-18 forming screws
- (4) - Glides
- (4) - M10 hex nuts
- (8) - M10 washers
- (4) - End plugs
- (2) - Hole plugs
- (4) - 1/4"-20 flat head screws
- (4) - 1/4"-20 hex nuts
- (4) - #14 tapping screws
- (3) - 13mm retaining rings

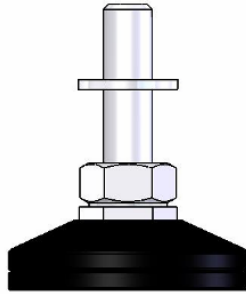
4.0 Recommended Tools

The following tools will be required to assemble the Movotec® ATU Workstation Kit. Please note that tools are not included with kit.

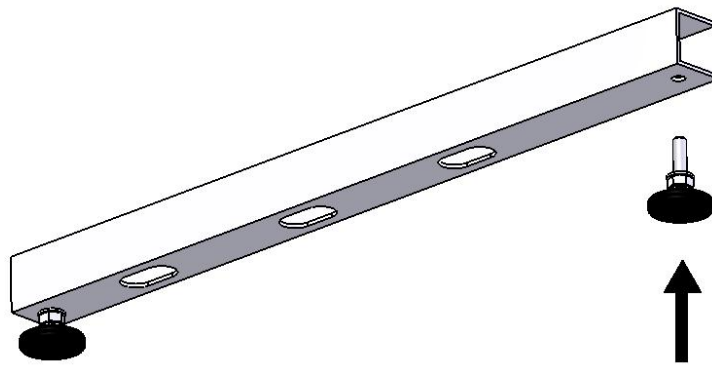
- Soft Face Hammer
- 1/2" Drive Ratchet
- 1/2" Drive Extension
- 13mm Hex Socket
- 17mm Wrench
- Power Drill
- #3 Phillips Head Drive Bit
- Retaining Ring Pliers
- 5/32" Allen Wrench

5.0 Foot Bracket Installation

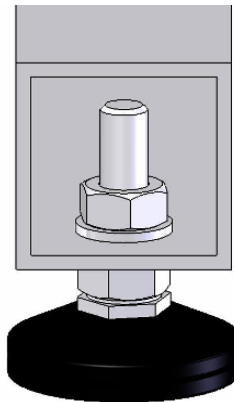
Install M10 washer onto glide thread.



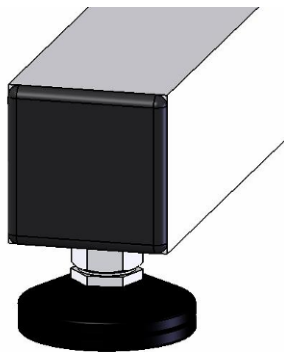
Insert glide thread into hole at end of foot bracket.



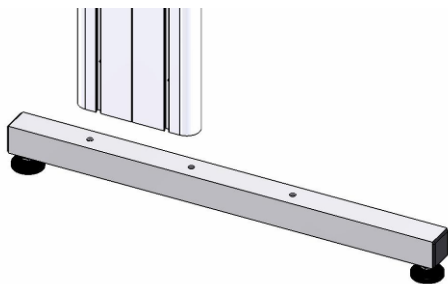
Fasten glide to foot bracket using M10 washer and M10 hex nut. Repeat for each glide and foot bracket.



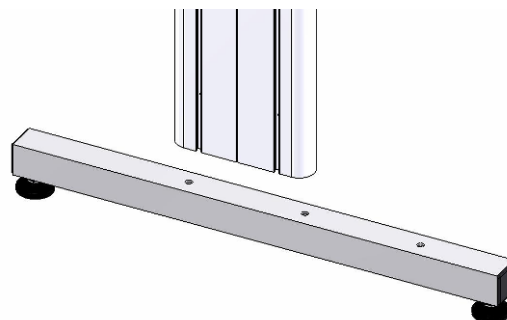
Insert end plugs into open ends of both foot brackets using soft-face hammer, if necessary.



Align foot bracket with bottom ATU in the desired mounting configuration (cantilever or centered).

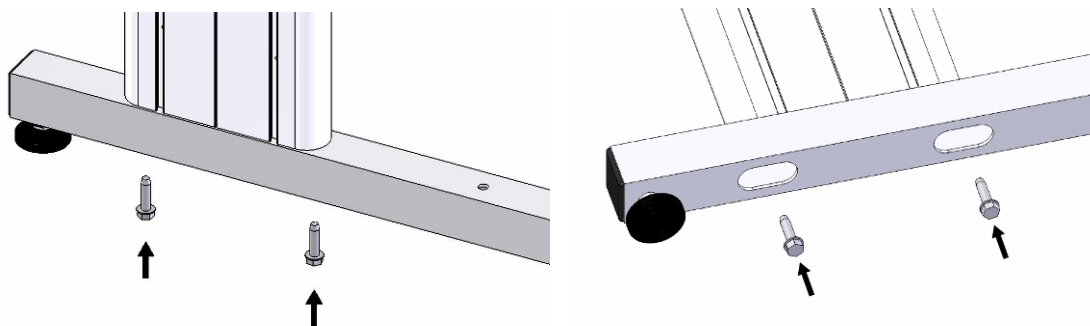


Cantilever Configuration



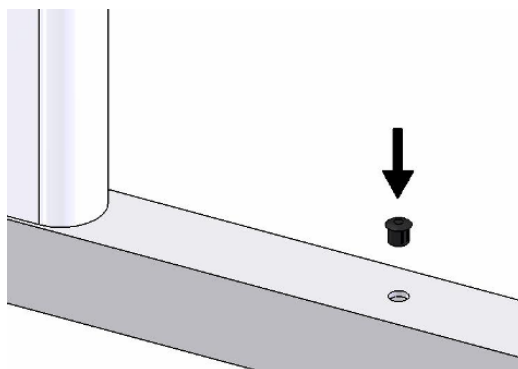
Centered Configuration

Fasten foot bracket to bottom of ATU using (2) 5/16"-18 thread forming screws. Please note that the function of the thread forming screw is to cut threads into the ATU as the screw is driven into the material.

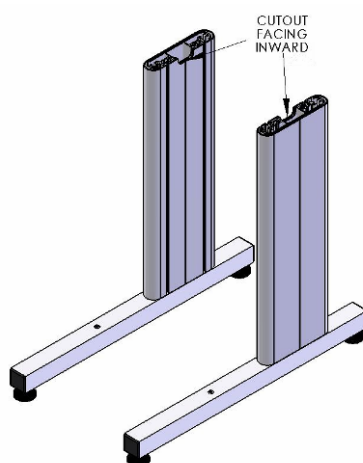


Cantilever Configuration Shown

Insert hole plug into unused mounting hole.



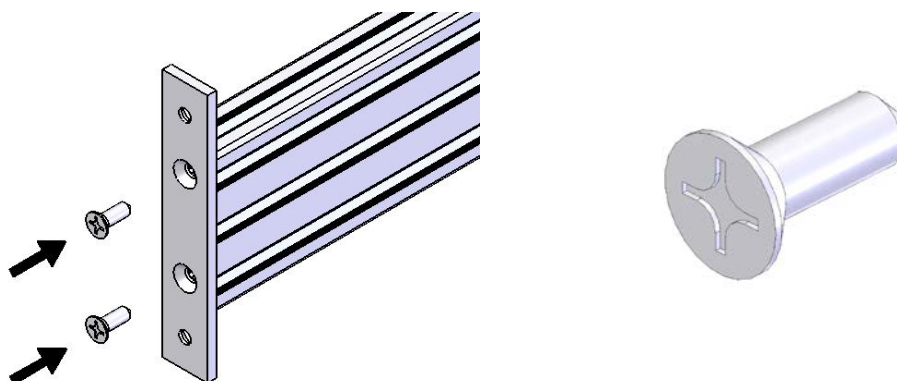
Repeat foot bracket assembly procedure for second ATU. When fastening second foot bracket to the ATU, make sure that the tubing cutout is facing inwards in relation to the other ATU.



Cantilever Configuration Shown

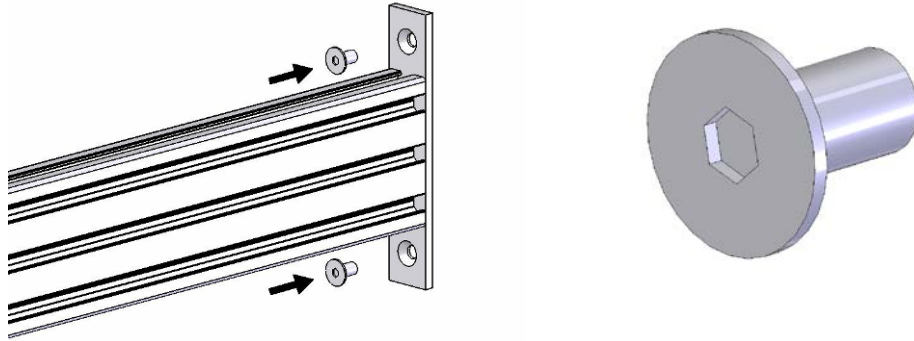
6.0 Cross Beam Installation

Fasten cross beam bracket to cross beam using (2) #14-3/4 tapping screws. The tapping screws require a #3 Phillips driver for installation. Please note that the function of the tapping screw is to cut threads into the cross beam as the screw is driven into the material.

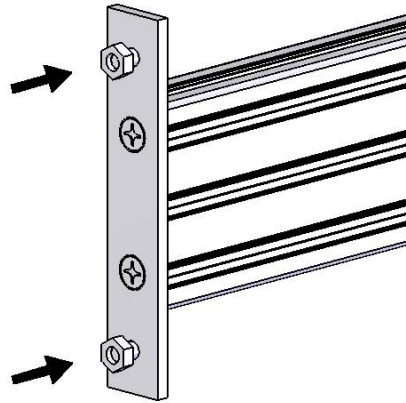


Repeat second cross beam bracket installation on opposite end of cross beam.

Insert 1/4"-20 flat head cap screw into outer cross beam bracket holes. The flat head cap screws require a 5/32" hex socket driver for installation.

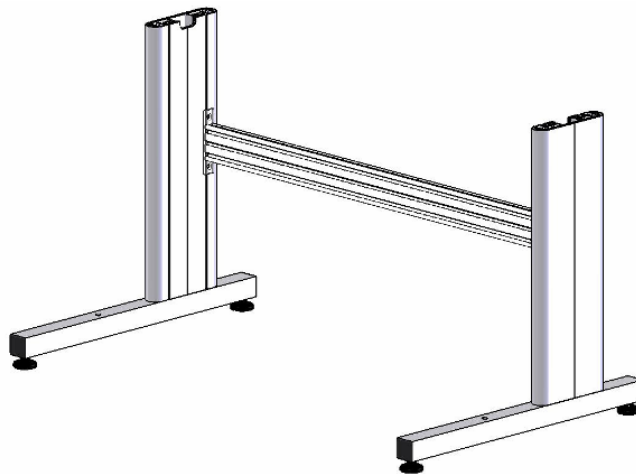


Thread 1/4"-20 hex nut onto each flat head screw, leaving approximately 4mm of the screw thread exposed.

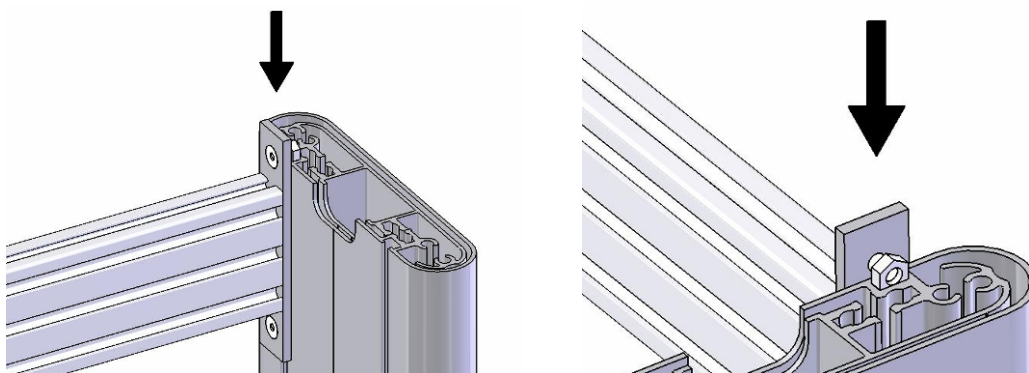


Repeat screw and hex nut installation on opposite end of cross beam.

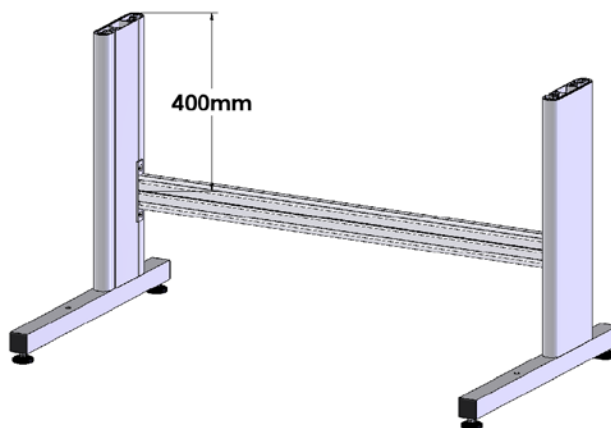
To prepare for cross beam mounting, position ATU legs as shown below.



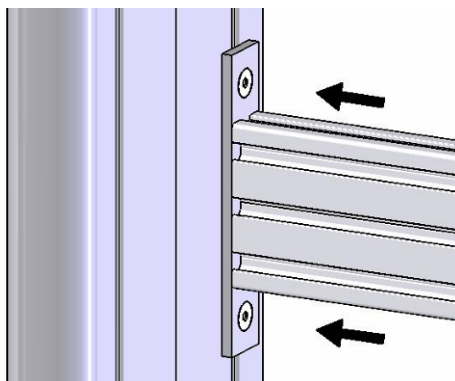
Align and insert the cross beam bracket hex nuts into ATU T-slot. Repeat cross beam installation on second ATU.



Position cross beam assembly at desired mounting height. The recommended position is 400mm (15.75 in.) from the top of the ATU to the centerline of the cross beam.



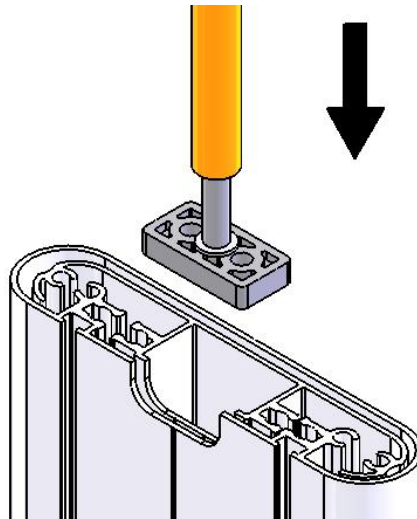
Fasten cross beam assembly to ATU legs by tightening the (4) flat head screws of the cross beam brackets.



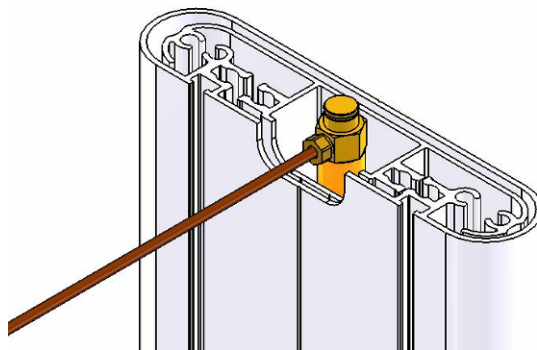
7.0 Cylinder & Top Bracket Installation

Before installing the top brackets, the pump should be placed in between the ATU legs in a secured position. This will allow each cylinder to be inserted into the ATU legs without damaging the hydraulic tubing.

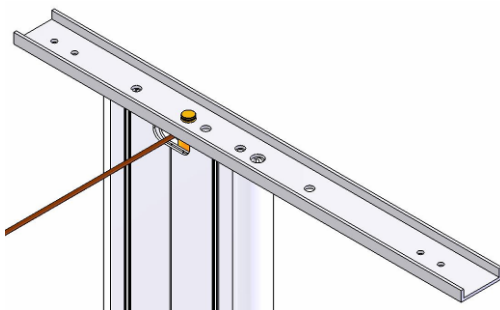
Insert cylinder into ATU as shown. The plastic cylinder block will rest on structural tabs inside the ATU leg.



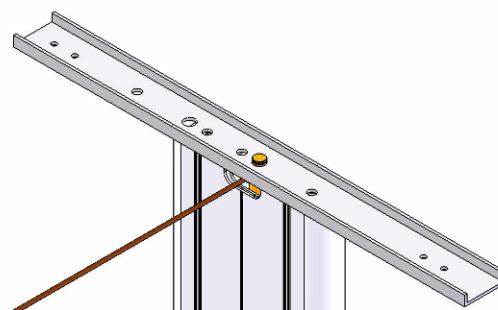
Orient cylinder head so that tubing exits the ATU tubing cutout as shown.



Align top bracket with top of the ATU in the desired mounting configuration, cantilever or centered. Insert cylinder head into top bracket mounting hole as shown.

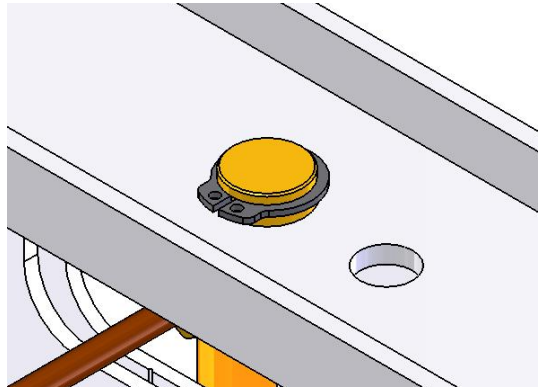


Cantilever Configuration

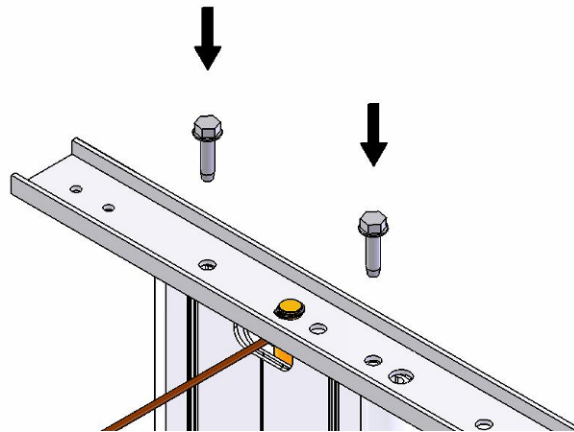


Centered Configuration

Install 13mm retaining ring into cylinder head retaining ring groove using retaining ring pliers.



Fasten top bracket to ATU using (2) 5/16"-18 thread forming screws. Please note that the function of the thread forming screw is to cut threads into the ATU as the screw is driven into the material.

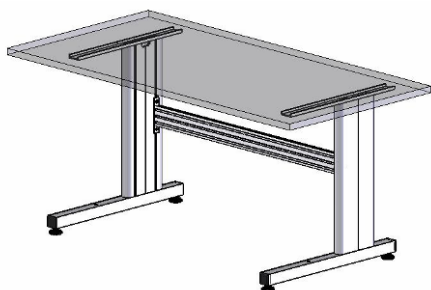


Cantilever Configuration Shown

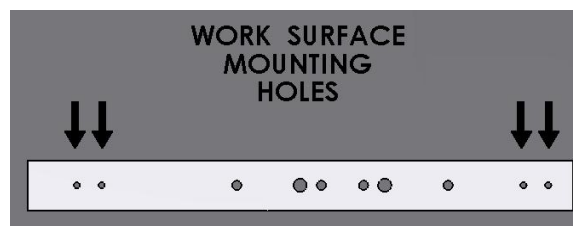
Repeat top bracket installation procedure on second ATU leg.

8.0 Work Surface Installation

Position work surface in desired mounting position. Please note that work surface is not included with the workstation kit. Mark and prepare mounting holes in the locations provided by the top brackets.



(Pump and Tubing Not Shown)



Under Work Surface View
(ATU and Foot Bracket Not Shown)

Using appropriate screws, mount work surface to top brackets. Please note that mounting screws are not included workstation kit.

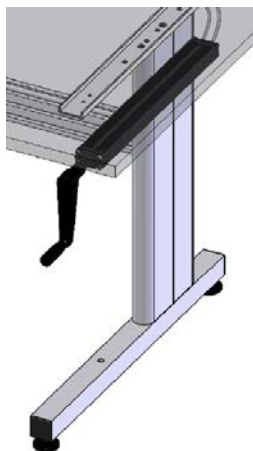
Check mounting screws to ensure that the work surface is secured.

9.0 Drive Unit Installation

Depending upon whether your Movotec® Lift System is crank or motor driven, the system installation instructions will vary. For installing a crank driven system, refer to section **9.1 Crank Driven Pump Installation**. For installing a motorized system, refer to the section **9.2 Motorized System Installation**.

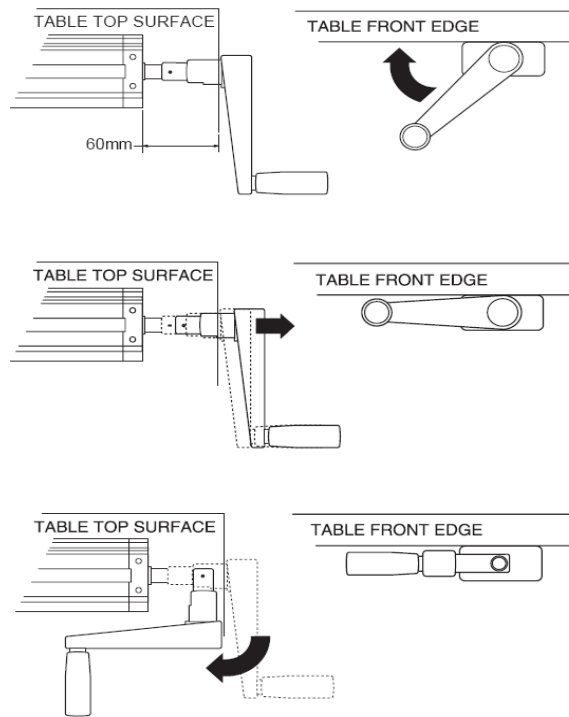
9.1 Crank Driven Pump Installation

Position crank driven pump in desired mounting location. Make sure there is enough room for crank to fold away under work surface.



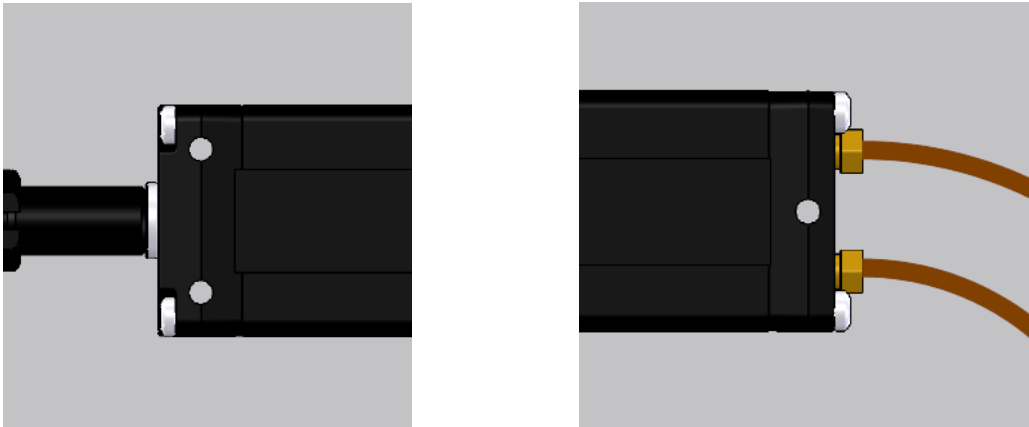
Under Work Surface View

The crank fold away procedure is shown below.

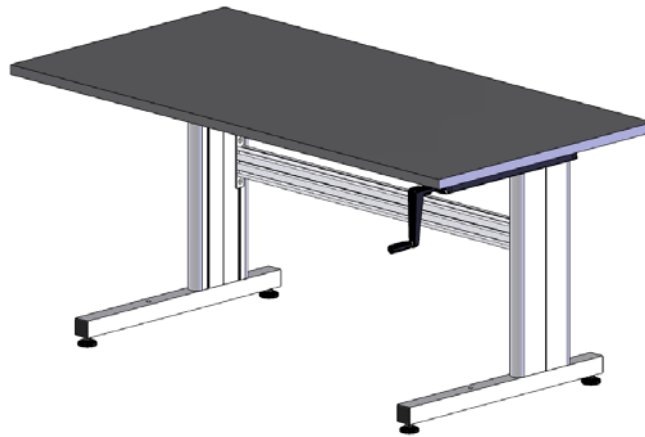


Folding Crank Stow Away Procedure

Mark and prepare three holes in the locations provided in the pump front and rear mounting plates.



Using appropriate screws, mount the crank driven pump to the work surface. Please note that mounting screws are not provided with workstation kit.



Check mounting screws to ensure that the unit is secured.

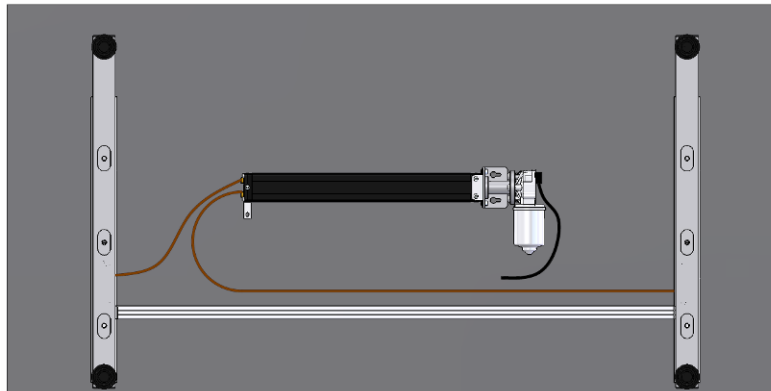
The crank driven system is now fully installed and ready for operation.

9.2 Motorized System Installation

A motorized system will require the installation of the motorized pump assembly, controller, and surface mount switch.

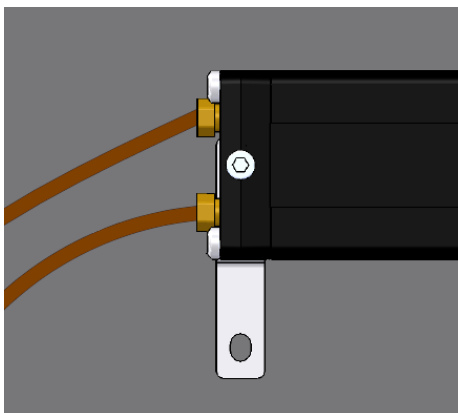
9.2.1 Motorized Pump Installation

Position motorized pump assembly in the desired mounting location. Make sure there is enough room for motor controller.

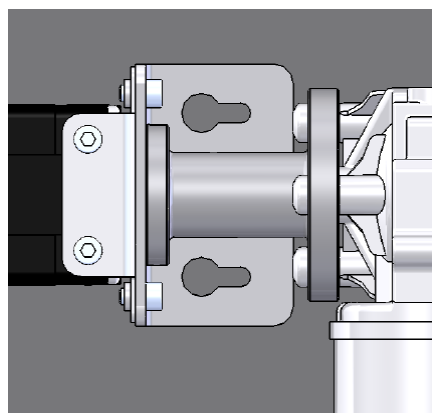


Under Work Surface View

Mark and prepare three holes in the locations provided by the motor bracket and rear pump support bracket.



Rear Pump Support Bracket



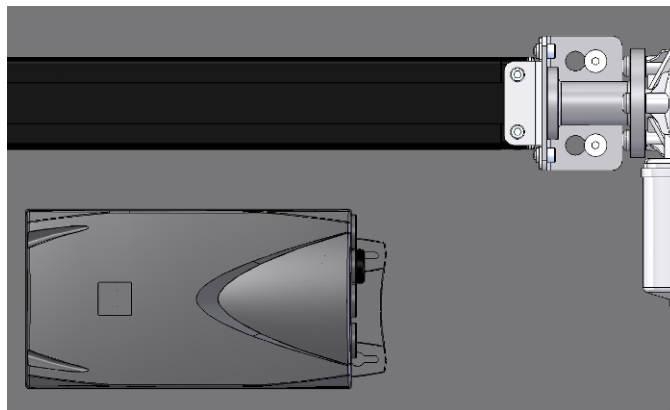
Motor Bracket

Using appropriate screws, mount the motorized pump assembly to the surface. Please note that mounting screws are not provided with workstation kit.

Check mounting screws to ensure that the unit is secured.

9.2.2 Controller Installation

Position the motor controller in the desired mounting position, making sure that the motor cable is long enough to reach the (M1) port after installation is complete.



Mark the edge of the controller with a pencil.

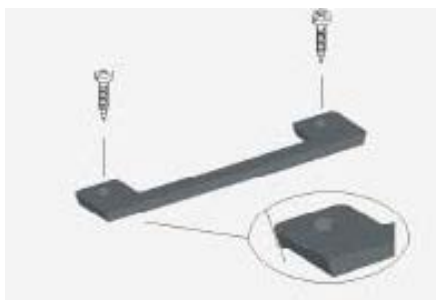


Detach the mounting plate from the bottom of the controller.



Align the mounting plate with the pencil line. Mark and prepare two mounting holes in the locations provided by the mounting plate.

Fasten the mounting plate, taper side down, using mounting screws with screw heads that clear the openings in the motor controller. To prevent breakage, do not over tighten the mounting screws. Please note that mounting screws are not provided with system or workstation kit.



Slide the motor controller onto the mounting plate tabs so that they are fully engaged with motor controller enclosure slots.

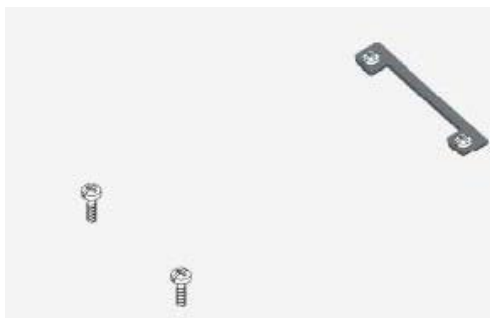


Mark two mounting holes in the motor controller keyway slots provided.



Detach the controller from the mounting plate and prepare the two marked holes for mounting screws.

Install two mounting screws halfway into the prepared holes.



Slide the controller onto the mounting plate so it is fully engaged with the motor controller housing.

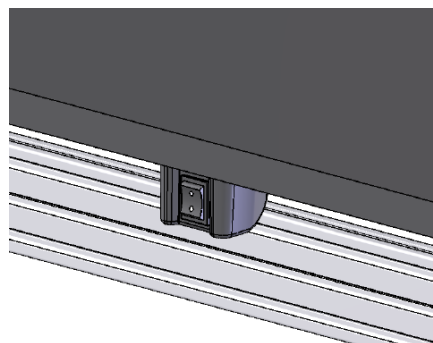
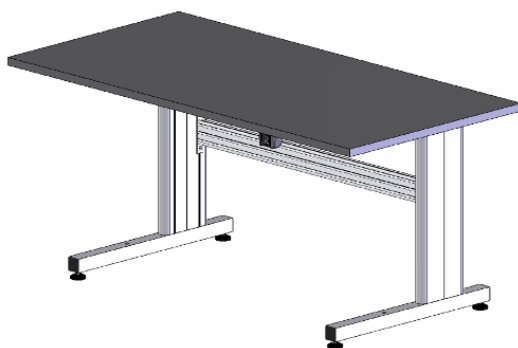
Tighten the two front side screws. To prevent breakage, do not over tighten the mounting screws.



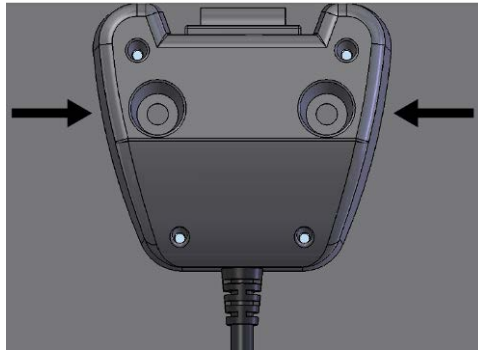
Check mounting screws to ensure that the unit is secured.

9.2.3 Surface Mount Switch Installation

Place the surface mount switch in the desired mounting location.



Align switch enclosure with front edge of the work surface. Mark and prepare two holes in the location provided by the switch enclosure.



Using appropriate screws, mount the switch to the work surface taking special care not to over tighten the screws. Please note that the mounting screws are not provided with system or workstation kit.

Check mounting screws to ensure that the switch is secured.

9.2.4 Cable Connections

The motor controller ports are labeled and color coded to identify their function.



(HS) = Switch Port **(Blue)**

(M1) = Motor Port **(Black)**

The switch plug is **blue** and corresponds with the **(HS)** switch port shown above. The motor cable plug is **black** and corresponds with the **(M1)** the motor port shown above.

Both plugs have arrows on them to indicate proper connection alignment. These arrows must face away from the work surface and toward their corresponding connection port.



Connect the **black** motor cable plug to the **(M1)** motor port. Firmly press the plug into the port to ensure that a complete connection has been made. Connect the **blue** switch cable plug to the **(HS)** switch port. Firmly press the plug into the port to ensure that a complete connection has been made. Connect power cord to motor controller power port. Firmly press power cord plug into the receptacle to ensure that a complete connection has been made.



Check all connections to ensure that they have been made correctly and completely.

Connect the power cord to a power outlet. The motor controller will produce an audible double-click when power is applied.



The motorized system is now fully installed and ready for operation.

10.0 Contact Information

If you have any questions, please feel free to contact technical support at:

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