



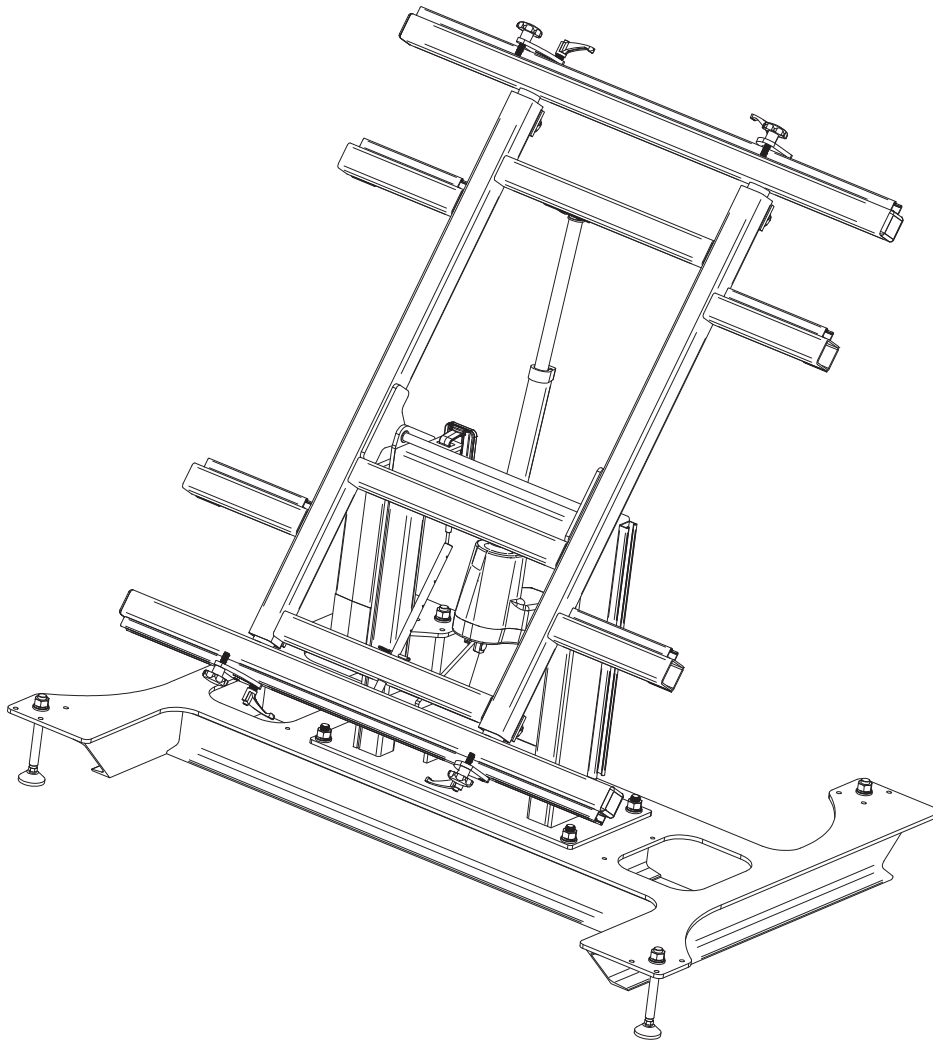
# AMTE 300

## ELECTRIC ASSEMBLY TABLE

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v1.2018.01.15

# ASSEMBLY INSTRUCTIONS



Also watch our assembly video  
found on [www.alfratools.com](http://www.alfratools.com)

### SAVE THESE INSTRUCTIONS:

Any user or installer of this assembly table must study this instruction manual carefully. If this table is sold, please provide the manual to the buyer, installers, or support personnel assembling the product.



# AMTE-300 ASSEMBLY MANUAL

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**ASSEMBLY INSTRUCTIONS**



## SAFETY PRECAUTIONS

Safety is essential to the use and maintenance of ALFRA tools and equipment. This assembly manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. When using electrical equipment, basic precautions should always be followed. Read all instructions before using the table.

**FAILURE TO COMPLY WITH OR OBSERVE ALL INSTRUCTIONS AND WARNINGS REGARDING THE ASSEMBLY AND USE OF THIS PRODUCT MAY RESULT IN BURN, ELECTRICAL SHOCK, SEVERE INJURY OR SERIOUS PROPERTY DAMAGE.**

**DANGER** - To reduce the risk of electric shock, Always unplug this equipment from the electrical outlet before cleaning, or before putting on or taking off parts.

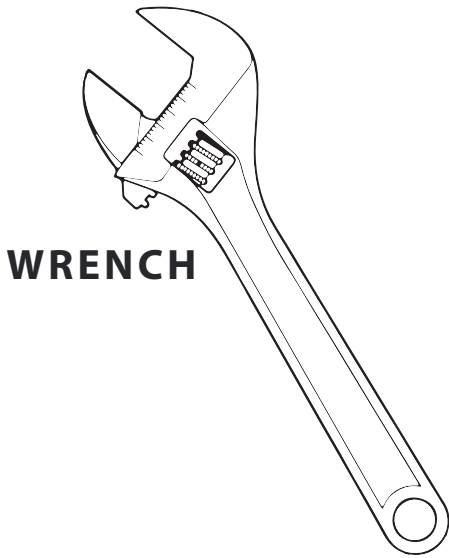
**SAFETY AND WARNINGS** - To reduce the risk of burns, fire, electric shock, or injury to persons:

- Do not attempt to install replacement batteries. Injury or possible damage to the equipment can occur if this warning is violated. Contact ALFRA TOOLS LLC if a replacement battery is required.
- Do not modify the product without written consent from the equipment manufacturer, ALFRA TOOLS LLC.
- The table operation is not permitted if:
  - a) flammable or explosive gases or vapors may be present in the work area
  - b) the operator is untrained or a child
  - c) children are present in the immediate area
- Inappropriate use of this product may cause property or bodily injury.
- Check surroundings on all sides before using the table. Body parts and property can be crushed if trapped between an immobile obstacle and the desk's range of motion.
- Keep the table close to the power socket/outlet to be easily accessible.
- Keep the cords away from heated surfaces.
- Loading and unloading must be carried out only with the table in the horizontal position.
- Keep all electrical components away from liquids.

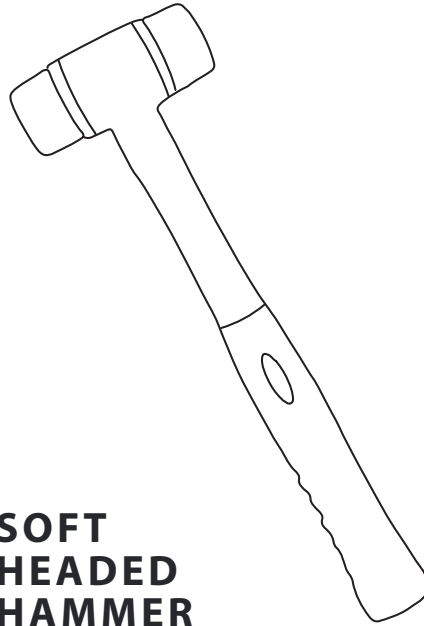
### USAGE

- Do not exceed the rated maximum duty ratio of operation of the device. Each linear actuator is rated for 2 minutes of continuous operation only, followed by a required rest for 18 continuous minutes. Failure to comply may cause injury or equipment failure
- Do not OVERLOAD the mounting table! Maximum allowed load weight is 1100 lbs.
- Only use the mounting table on a flat, level surface that can withstand the weight of the table, including the maximum load.
- Ensure that all table wheels are locked or otherwise unable to rotate before mounting any object on the table.
- Ensure the load is evenly distributed over the mounting table work surface.
- During use, no one must sit or stand on the mounting table.
- Never operate this table if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water.
- This table was designed for indoor use only. Do not operate the table outdoors.

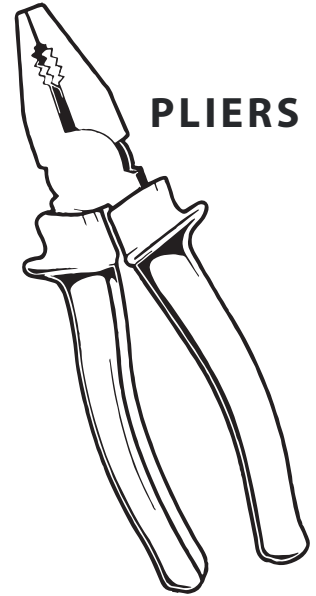
# TOOLS REQUIRED



**WRENCH**



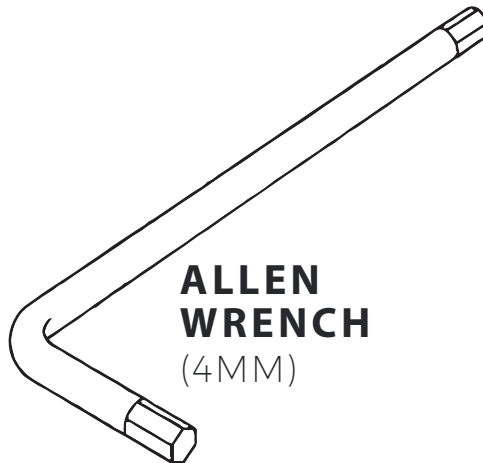
**SOFT  
HEADED  
HAMMER**



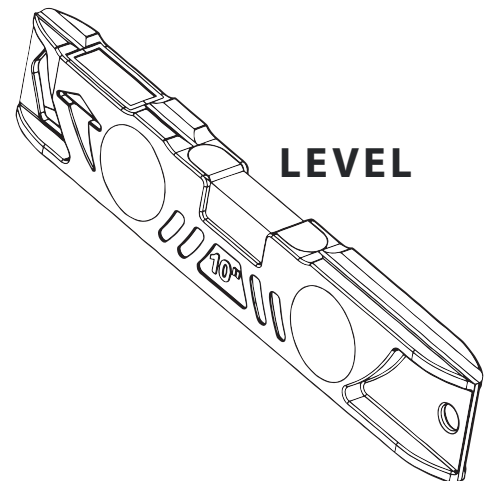
**PLIERS**



**BALL  
PEEN  
HAMMER**



**ALLEN  
WRENCH  
(4MM)**

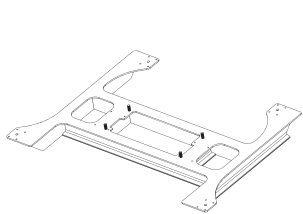


**LEVEL**

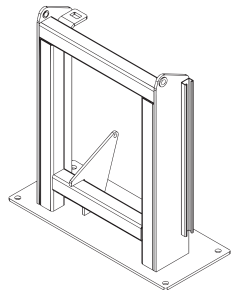
## HARDWARE INCLUDED

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	31003-100	Base Frame
2	1	31003-106	Middle Support
3	1	31003-114	Table Top
4	1	31003-124	Lower Extension
5	1	31003-123	Upper Extension
6	2	31003-127-L	Clamping Unit Standard - Left Hand
7	2	31003-127-R	Clamping Unit Standard - Right Hand
8	4	31003-006	Bolt with pad M16 x 150 mm Leveling Pad
9	1	31003-117	Actuator
10	1	31003-002	Battery
11	1	31003-018	1 Axis Controller
12	1	31003-024	2 Button Keypad
13	1	31003-020	1 Amp Power Supply
14	1	31003-126	Quick-Release Pin 3/16 Dia X 1-3/8 Lg
15	4	31003-115	Extension Star Knob
16	1	31003-111	Upper Actuator Pin 10mm Dia, 45mm Lg
17	1	31003-110	Lower Actuator Pin 12mm Dia, 30mm Lg
18	4	31003-122	2" Square Tubing Plug
19	1	31003-113	Hinge Connecting Rod 5/8 Dia-19.625" Lg
20	4	31003-105	Hex Nut M16 x2, Plain
21	4	31003-104	Lock Washer M16, Plain
22	4	31003-103	Flat Washer M16, Plain
23	8	31003-131	Hex Nut M16 x2, Zinc-Pl, Class 8
24	4	31003-129	Flat Washer M16, Zinc-Pl
25	4	31003-130	Lock Washer M16, Zinc-Pl
26	3	31003-112	Button Head Cap Screw M6 x1-10mm Lg
27	2	31003-108	Cotter Pin 7/64 x1.00" Lg, Zinc-Pl

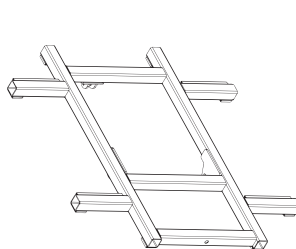
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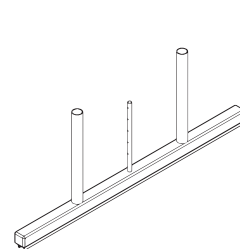
2 x1



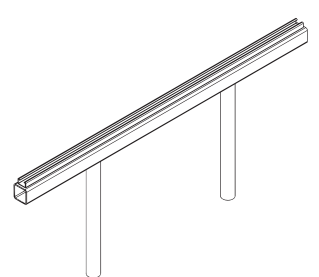
3 x1



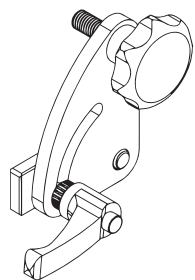
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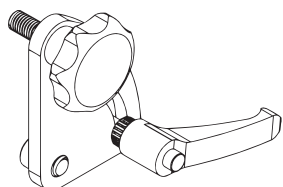
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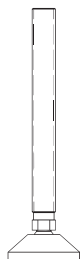
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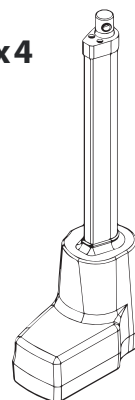
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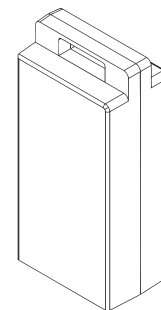
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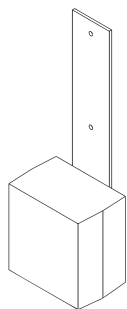
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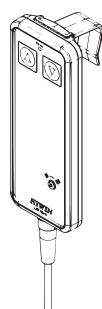
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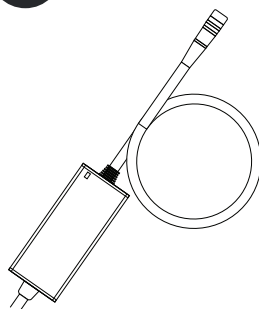
11 x4



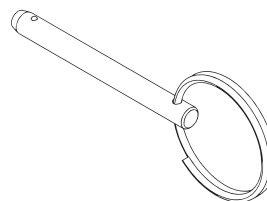
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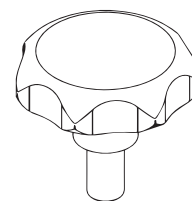
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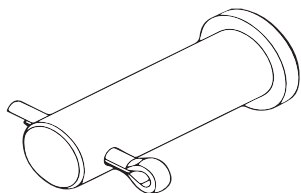
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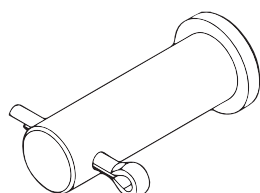
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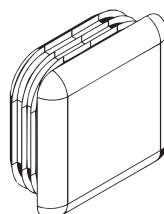
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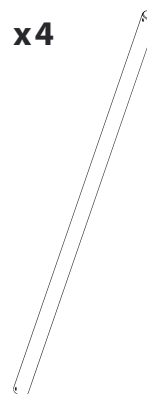
17 x1



18 x1



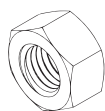
19 x4



21 x4



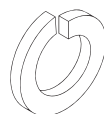
23 x4



24 x4



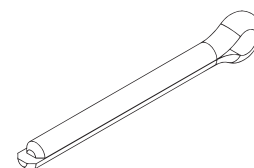
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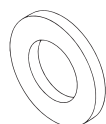
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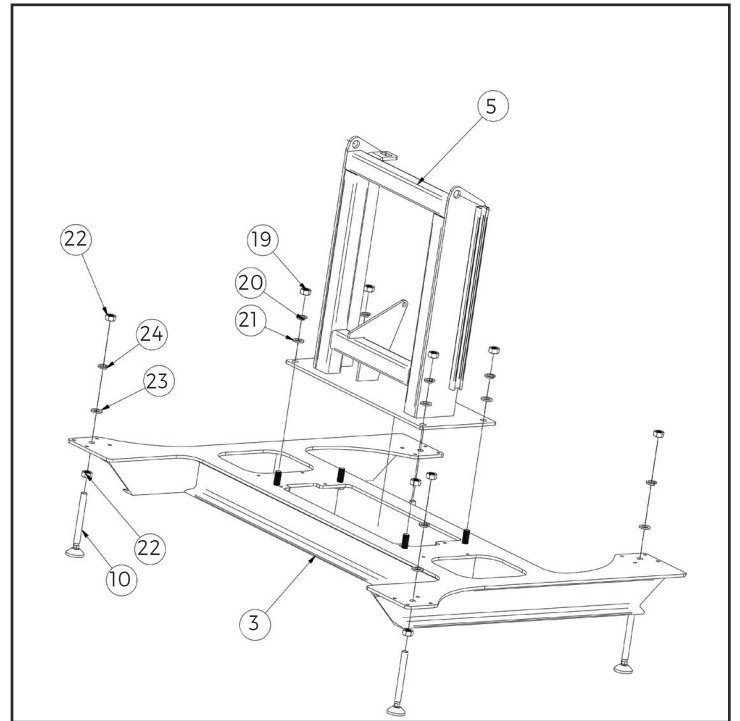
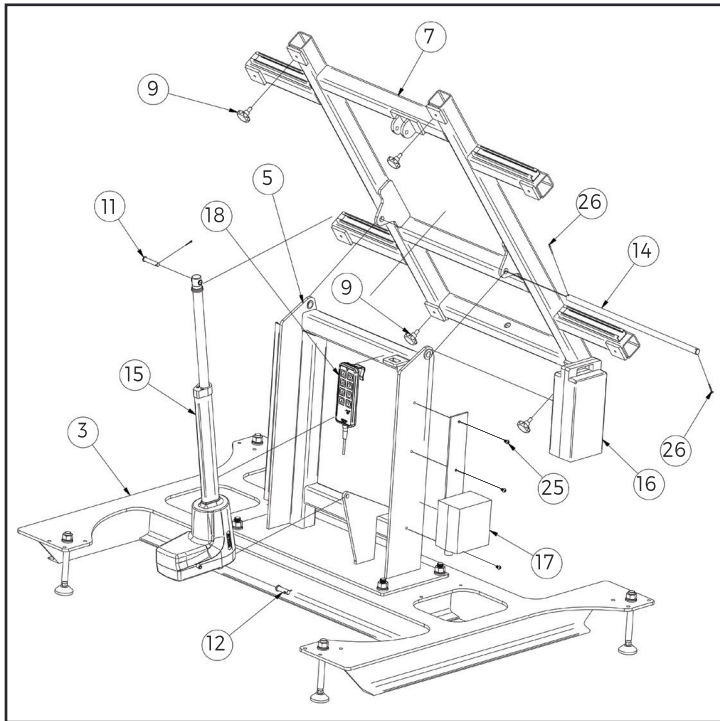
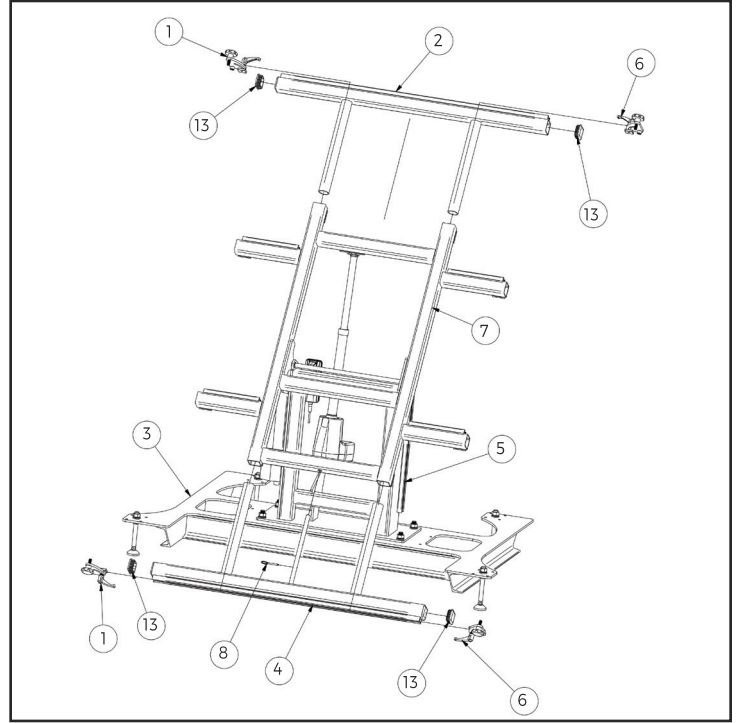
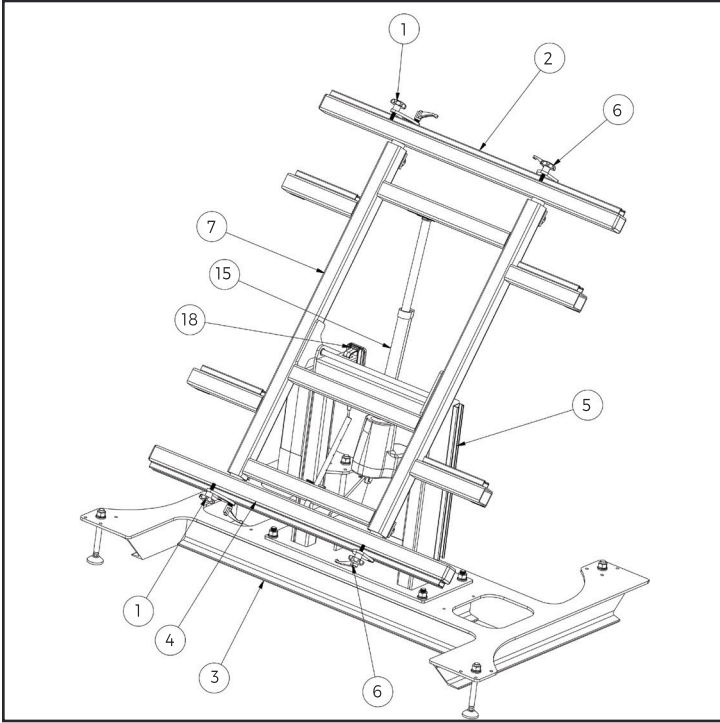
27 x1



22 x8



## HARDWARE PLACEMENT





# ASSEMBLY INSTRUCTIONS

**1**

Place the **base frame**<sup>1</sup> on a wooden pallet or other raised platform so that it is raised off of the ground.

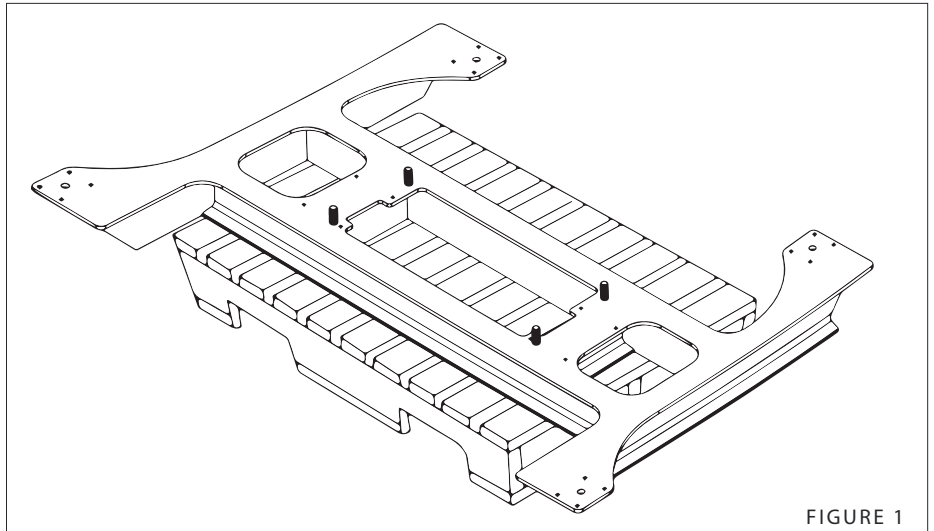


FIGURE 1

**2**

Thread **hex nut**<sup>23</sup> onto assembled **leveling pad**<sup>8</sup> about half way down shaft. Repeat for all four **leveling pads**<sup>8</sup>.

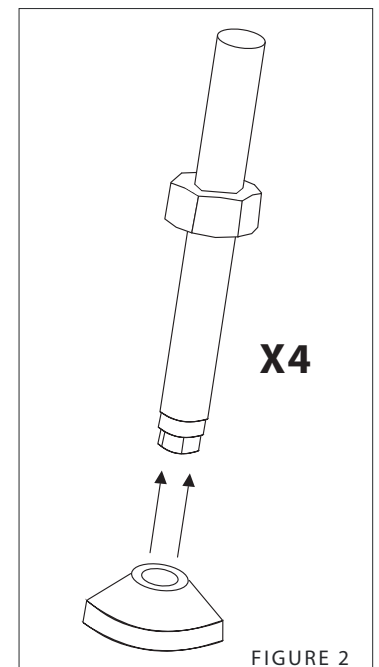


FIGURE 2

## 3

Position assembled **leveling pad**<sup>8</sup> underneath corner of **base frame**<sup>1</sup> and insert through center hole.

Place **flat washer**<sup>24</sup> onto the bolt of **leveling pad**<sup>8</sup> over the top side of **base frame**<sup>1</sup> followed by **lock washer**<sup>25</sup>. Loosely thread **hex nut**<sup>23</sup> over **flat washer**<sup>24</sup>. Repeat for all four corners of **base frame**<sup>1</sup>.

Once all four **leveling pads**<sup>8</sup> are installed, remove **base frame**<sup>1</sup> from raised platform. Using a level, utilize **hex nut**<sup>23</sup> on the underside of base frame corners to level **base frame**<sup>1</sup>. Once completely level, secure **hex nut**<sup>23</sup> on top side of **base frame**<sup>1</sup> tightly with a wrench.

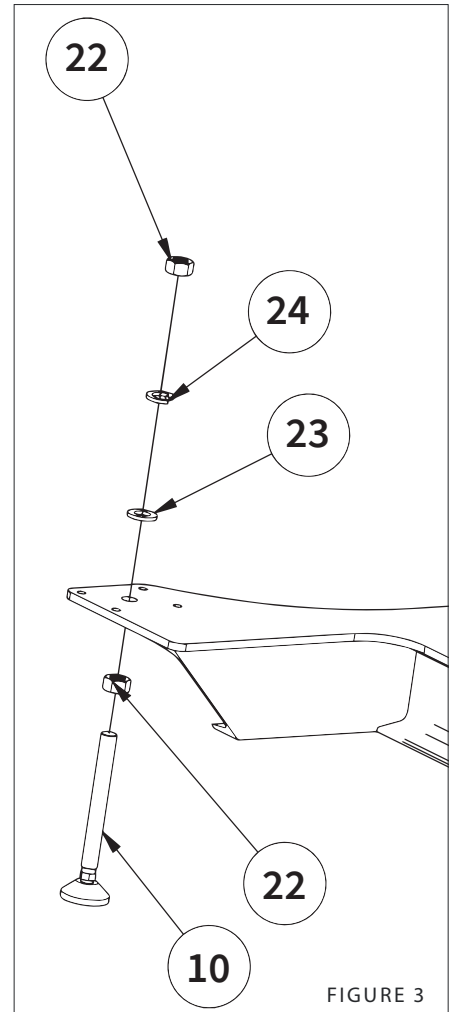


FIGURE 3

## Optional

If you purchased the tilting table caster wheels (#031003-010 - non-locking or #31003-025 - locking) separately, use caster wheels and caster hardware that was provided to install instead of the leveling pads. Instead of using center hole on corner of base frame, use the four surrounding holes in each corner.

**(See figure 4)**



FIGURE 4

## 4

Place the **middle support**<sup>2</sup> on to center of **base frame**<sup>1</sup> aligning the bolts on **base frame**<sup>1</sup> with holes on **middle support**<sup>2</sup>. The mount for the actuator on middle support (see figure 5) should be facing the rear of the table. (See figure 6)

Once positioned, place **flat washer**<sup>22</sup> onto bolts of base frame followed by **lock washer**<sup>21</sup>. Finally, thread **hex nut**<sup>20</sup> over and secure tightly using a wrench.

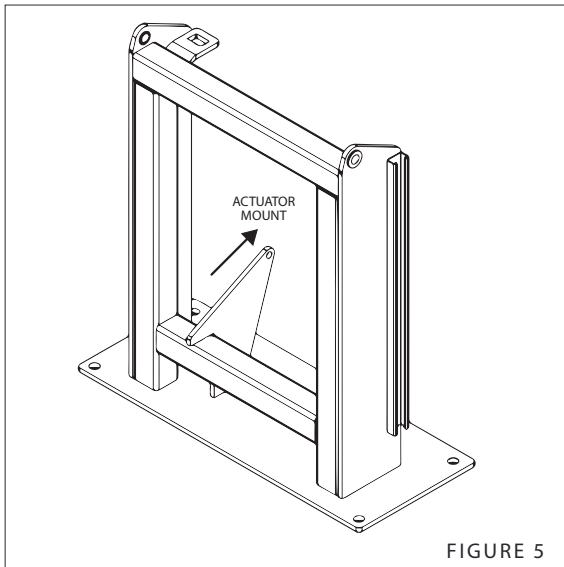


FIGURE 5

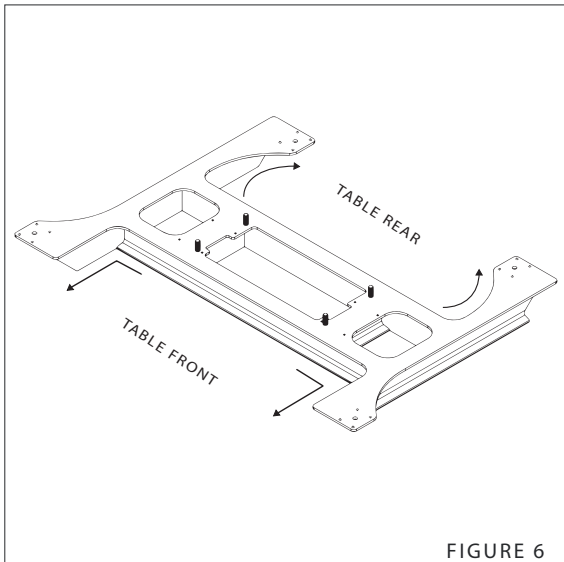


FIGURE 6

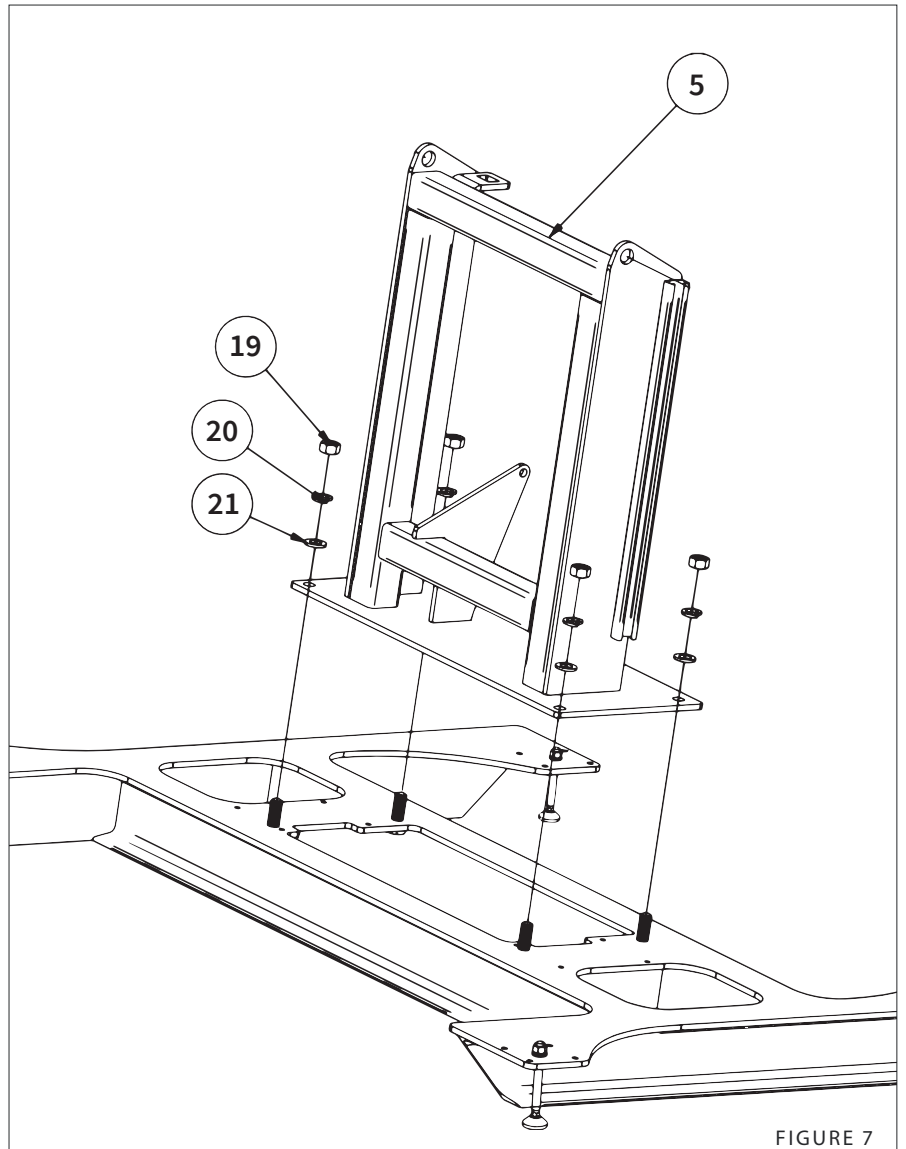
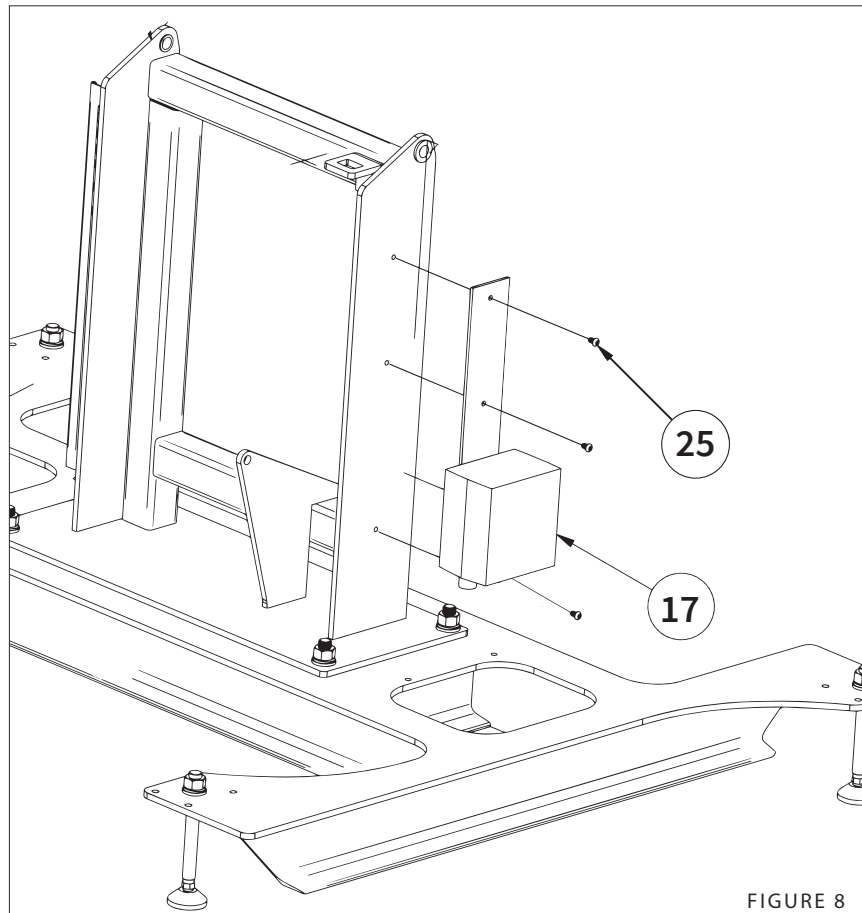


FIGURE 7

## 5

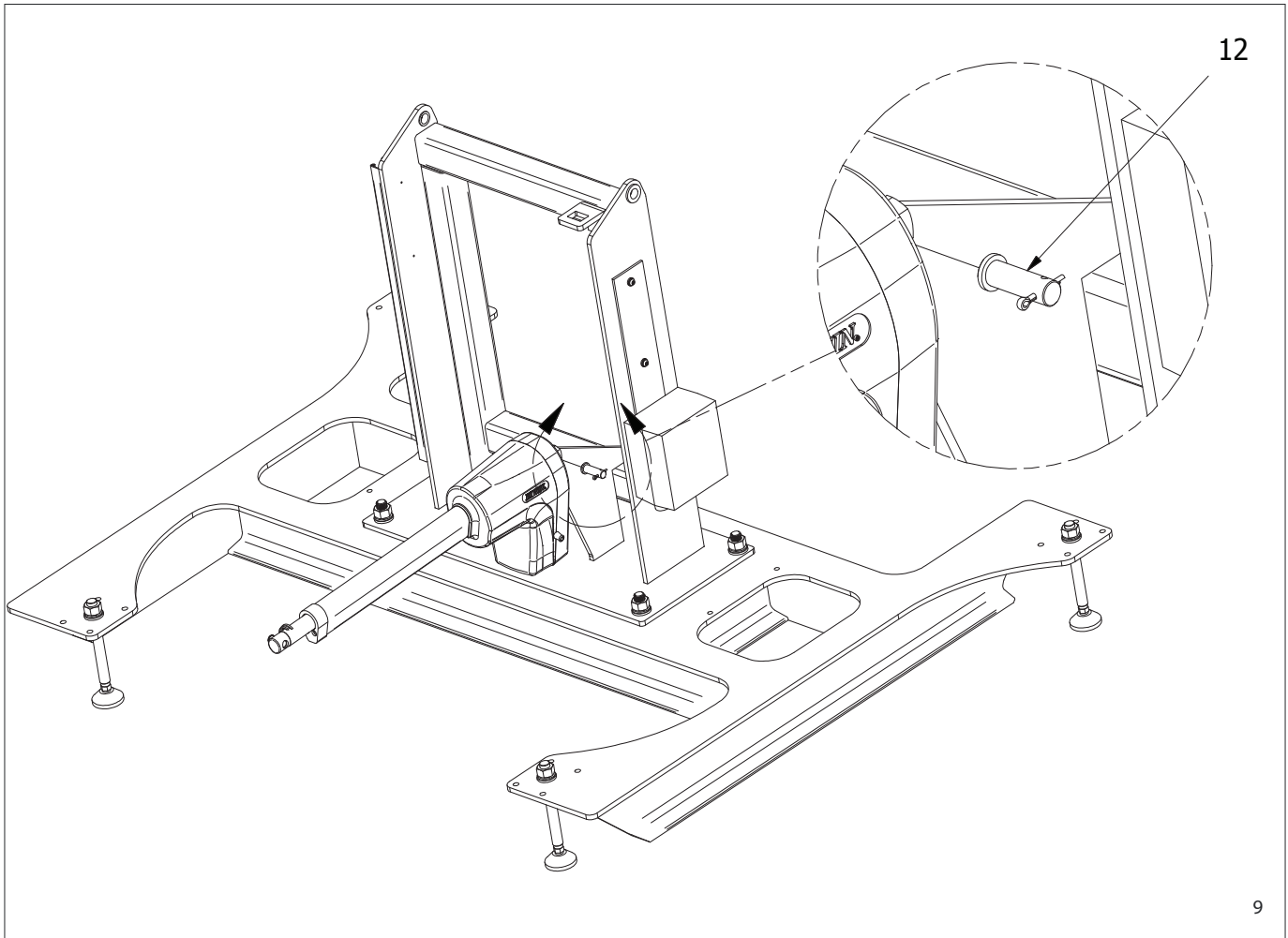
On right side of **middle support**<sup>2</sup> (when standing at the rear of the table) place and hold **controller**<sup>11</sup> while aligning the three screw holes.

Take **button head cap screw**<sup>26</sup> and secure tightly into side of **middle support**<sup>2</sup> and **controller**<sup>11</sup> using an allen wrench. Repeat for all three **button head cap screws**<sup>25</sup>.



## 6

With the **actuator**<sup>9</sup> shaft pointing downward, align bottom hinge of **actuator**<sup>9</sup> and the actuator mount located on the **middle support**<sup>2</sup> together. Slide **flanged pin**<sup>17</sup> through both units, insert **cotter pin**<sup>17</sup> and secure with pliers.

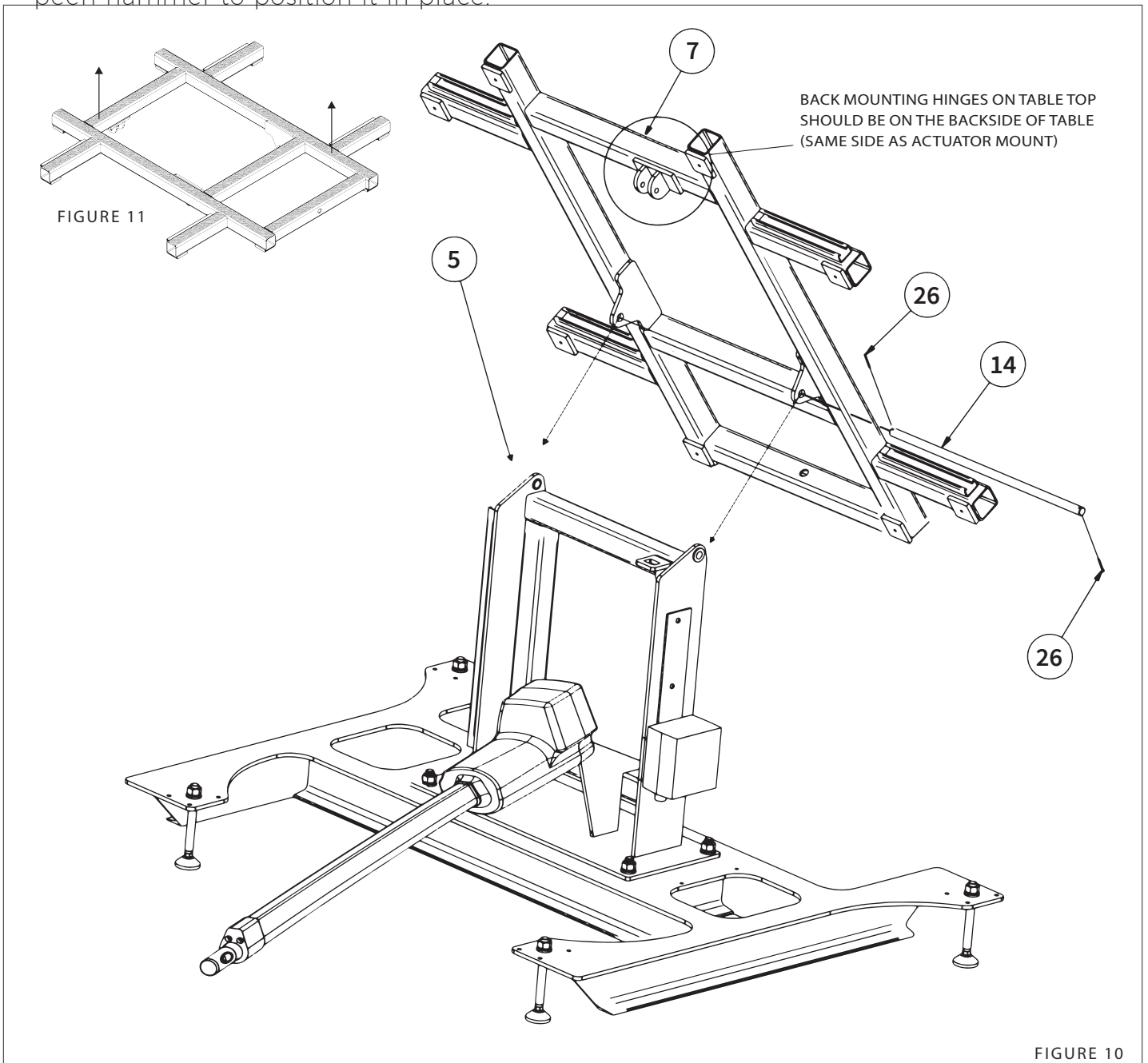


## 7

Align center mounting hinges of **table top<sup>3</sup>** with top holes on **middle support<sup>2</sup>**. Felted surface of **table top<sup>3</sup>** should be positioned upwards. (See figure 11)

Slide **hinge connecting rod<sup>19</sup>** through both the **table top<sup>3</sup>** hinges and the **middle support<sup>2</sup>**. Using pliers, secure and tighten a **cotter pin<sup>27</sup>** on each side of **hinge connecting rod<sup>19</sup>**.

IMPORTANT: Fit of **hinge connecting rod<sup>19</sup>** will be snug, you may need to use a ball peen hammer to position it in place.



## 8

Rotate **actuator**<sup>9</sup> so that shaft is pointing upwards. Tilt **table top**<sup>3</sup> to align mounting hinge on **table top**<sup>3</sup> with the very end of the **actuator**<sup>9</sup> shaft. Slide **flanged pin**<sup>16</sup> through both units, insert **cotter pin**<sup>16</sup> and secure with pliers.

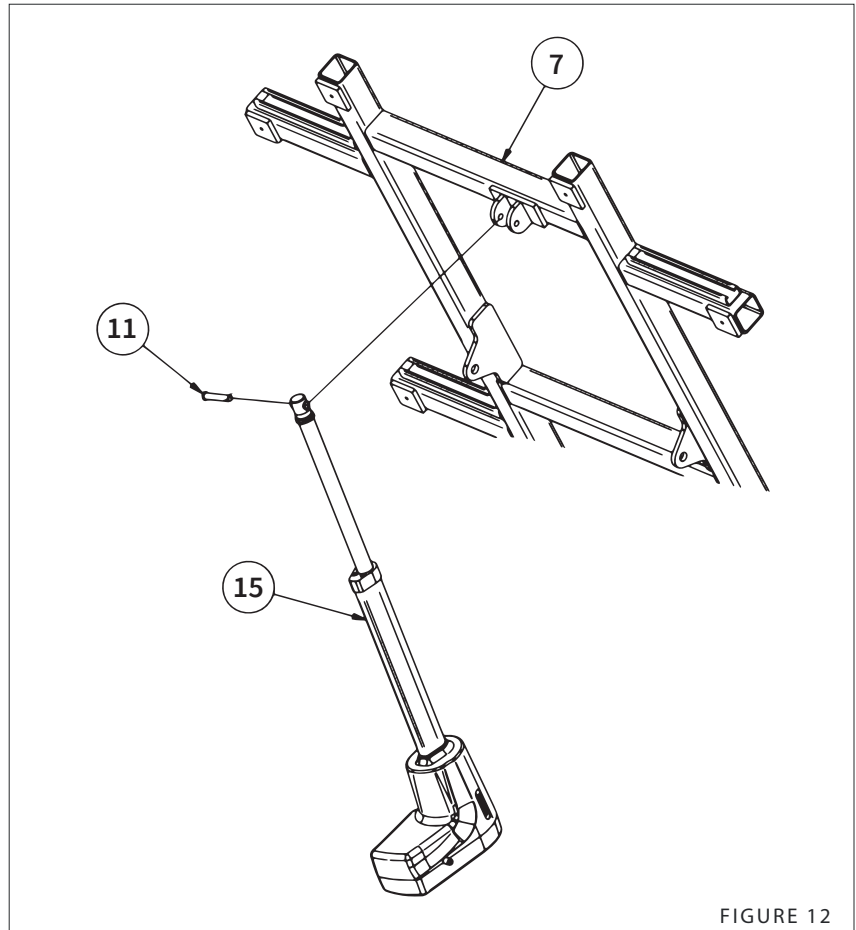


FIGURE 12

## 9

Using a soft head hammer, insert the **square tubing plug**<sup>18</sup> into end of arm of **upper extension**<sup>5</sup>. Hammer in **square tubing plug**<sup>18</sup> so it is wedged tightly into place. Repeat for all four arms on upper and **lower extension**<sup>4</sup>. Arms of **table top**<sup>3</sup> will not have square tubing plugs.

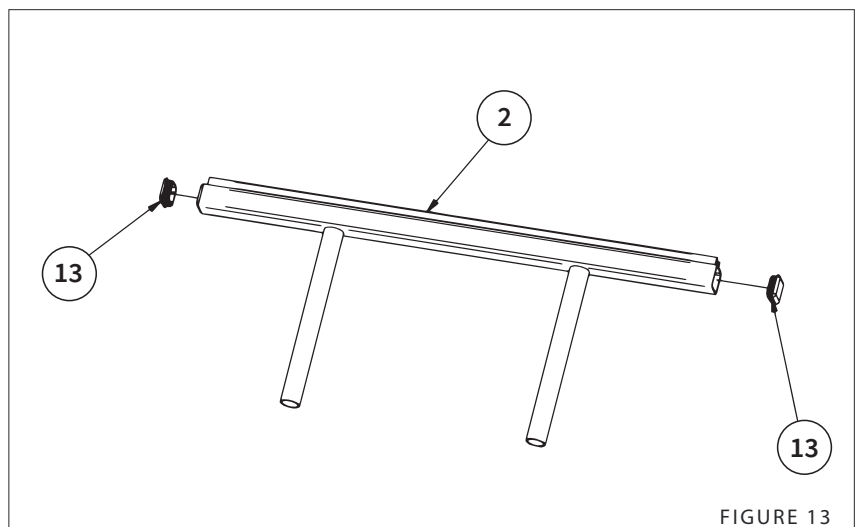
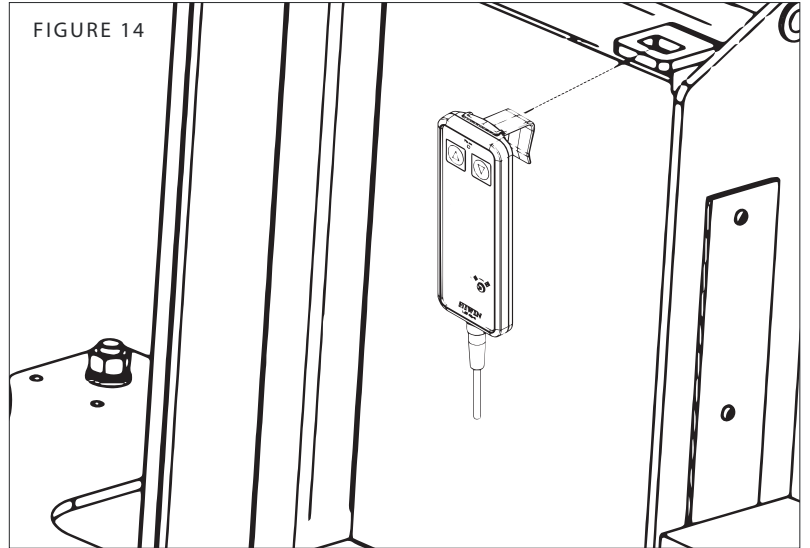


FIGURE 13

## 10

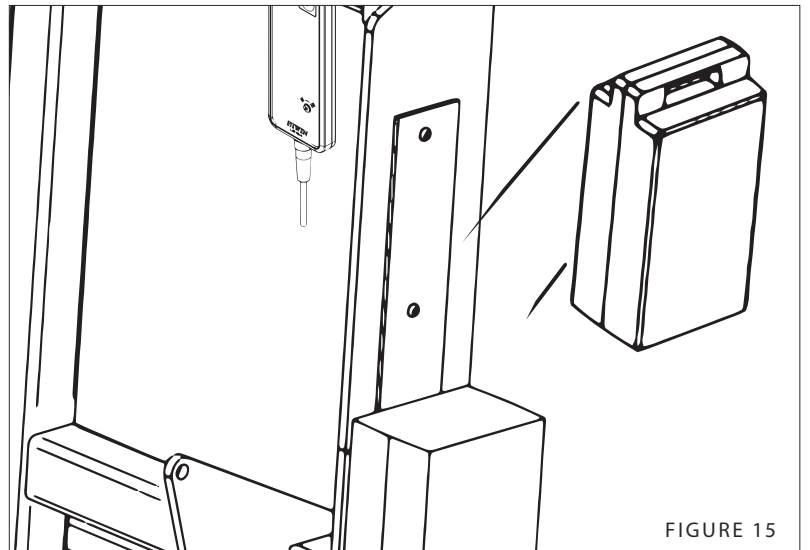
Hang **2 button keypad<sup>12</sup>** on hook of **middle support<sup>2</sup>**. Plug **actuator<sup>9</sup>** power cord and cord of **2 button keypad<sup>12</sup>** into **controller<sup>11</sup>**.



## 11

Install **battery<sup>10</sup>** into **controller<sup>11</sup>** by sliding **battery<sup>10</sup>** on top and firmly pressing on handle until it clicks into place.

Use key pad of **2 button keypad<sup>12</sup>** to verify table is working properly.





## 12

Using the **2 button keypad**<sup>12</sup>, bring the **table top**<sup>3</sup> into horizontal position and adjust the **extension**<sup>3+4</sup> positions as needed to accommodate the panel you will be working on.

Before adjusting the **lower extension**<sup>4</sup>, remove the **quick release pin**<sup>14</sup> inserted into the safety splinter. Loosen the **lower extension's**<sup>4</sup> **star knob**<sup>15</sup>. Adjust the **lower extension**<sup>4</sup> position as needed. Tighten the **star knob**<sup>15</sup> (2 per each extension). Re-insert the **quick release pin**<sup>14</sup>

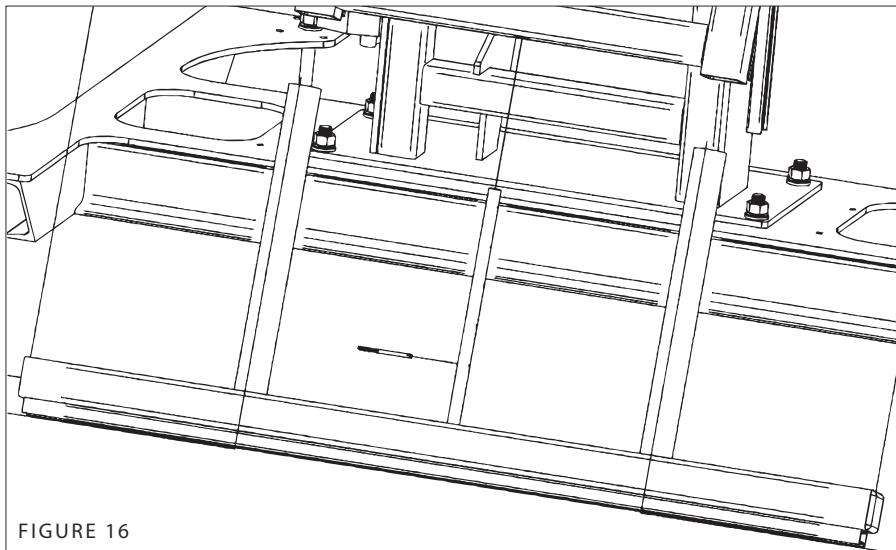


FIGURE 16

## 13

To adjust the **upper extension**<sup>5</sup> Loosen the **star knob**<sup>15</sup> (2 per each extension). Adjust the **upper extension**<sup>5</sup> position as needed. Tighten the **star knob**<sup>15</sup>.

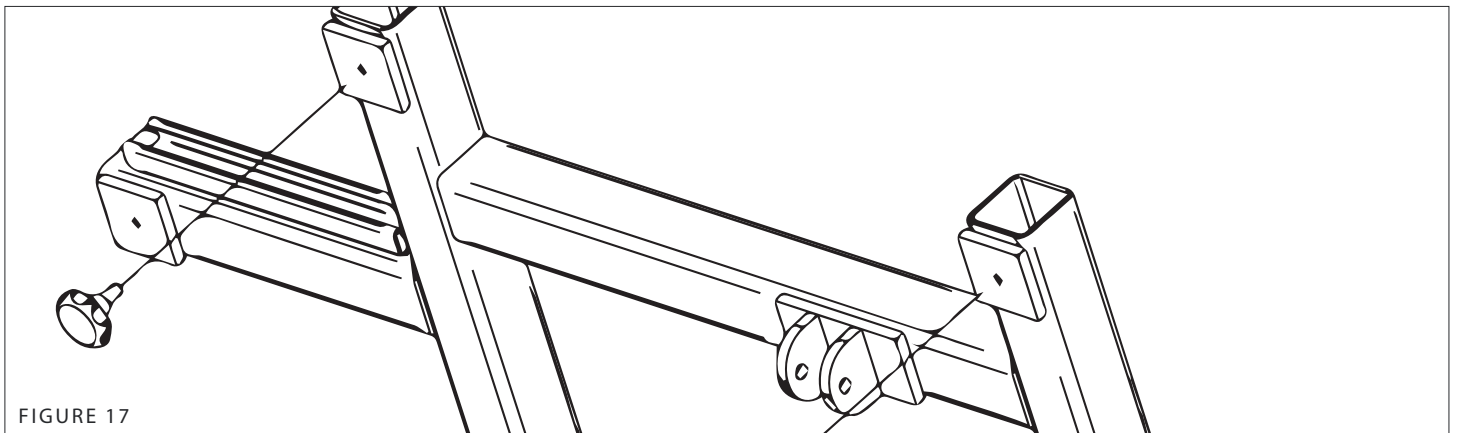
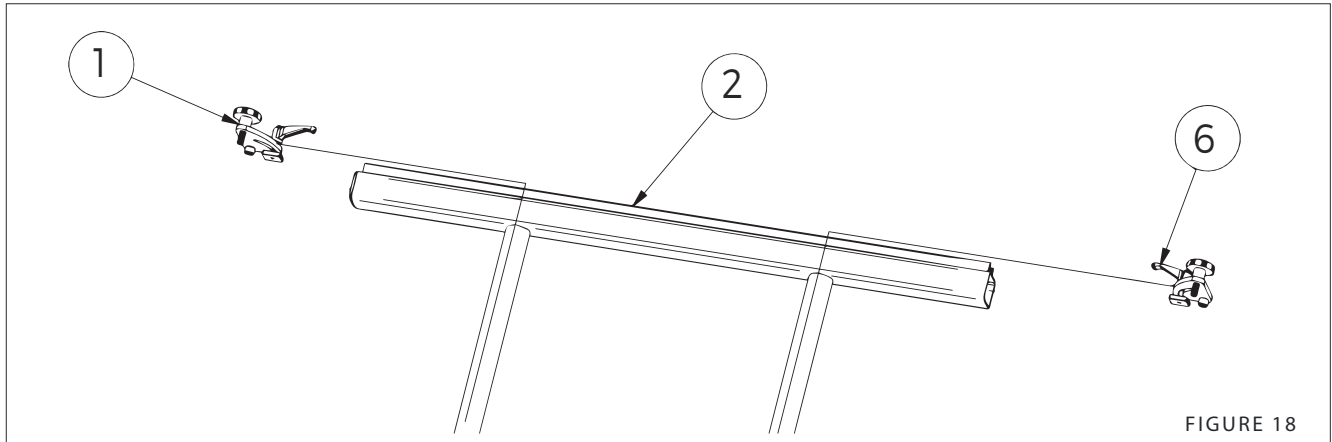


FIGURE 17

# 14

Install **clamping units**<sup>6&7</sup> on **upper and lower extensions**<sup>4&5</sup> by aligning rectangle nut and stud with the uni-rail. Once in position, tighten quick release lever on **clamping units**<sup>6&7</sup>.



## BEFORE INITIAL OPERATION

Charge **battery**<sup>10</sup> with **power supply**<sup>13</sup> fully before operating assembly table.