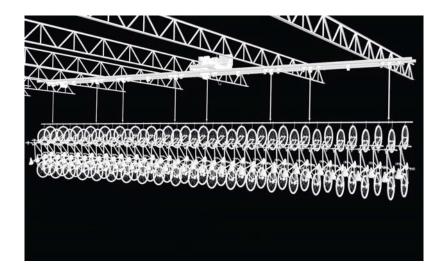
## **Overhead Storage Lift**

Installation, operation and maintenance





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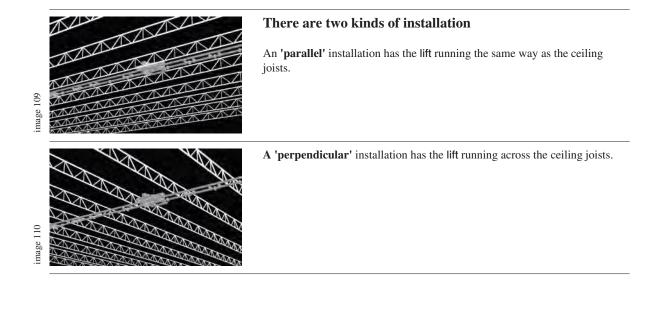
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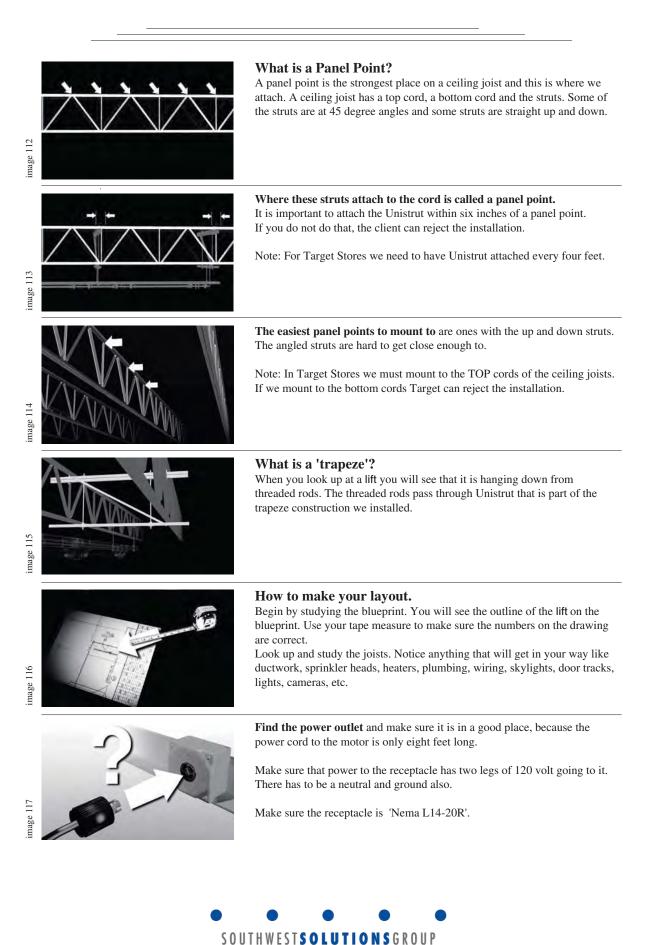
	What is a lift? This is the overhead storage lift used for storage in the back rooms of retail stores. These are used for bicycles or clothing and there are some used for light boats and car tires. When you push a button the hang bar comes down to eye level where it is easy to load or unload. Push the button and the goods go up to the ceiling.
	<b>The hang bar is suspended</b> from nylon straps that wind onto spools up on the lift. The lift itself is mounted in the ceiling. <i>Note:</i> This manual is specifically for lift units being installed in Target Stores. There are different rules for other installations. Most Target Stores will order a 32 foot lift, but sometimes they will want a 24 foot lift.
image 102	A typical lift is made from 8 foot long sections that are bolted together end to end. The sections all are built on identical frames. The Drive Section is the heaviest and most complex because of the motor, control box, and drive sprockets. You will need to mount and level the Drive Section first because all the other sections are bolted to it. If the Drive Section is off, the whole installation will be off.
image 103	Next a Filler Section gets bolted onto each end of the Drive Section.
image 104	<b>Next the End Section</b> , which has the Safety Brake, is mounted far away from the Drive Section.
inage 105	<b>Every section hangs</b> from four threaded rods except for the Drive Section, which hangs from six threaded rods because it is heavy.

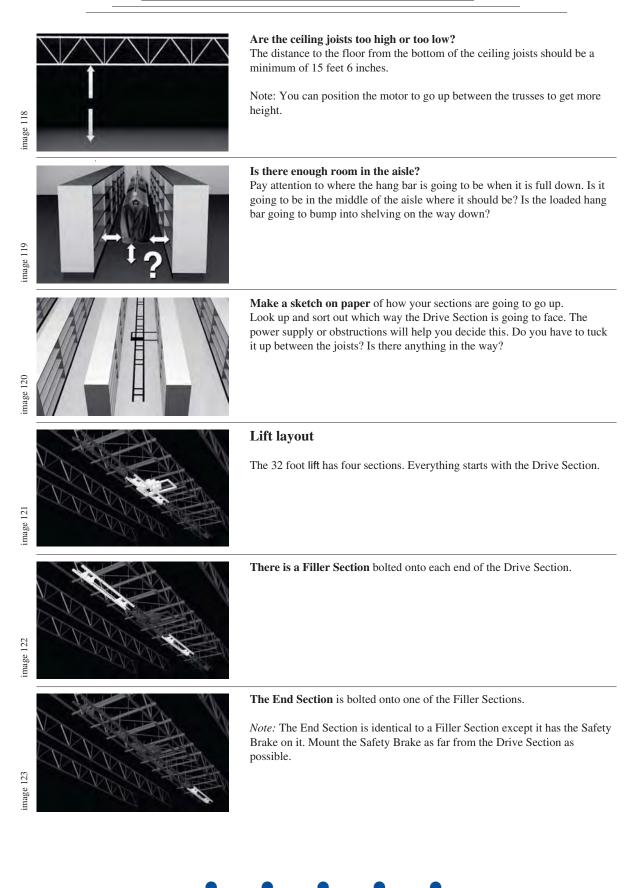
#### Tools you will need to install a lift

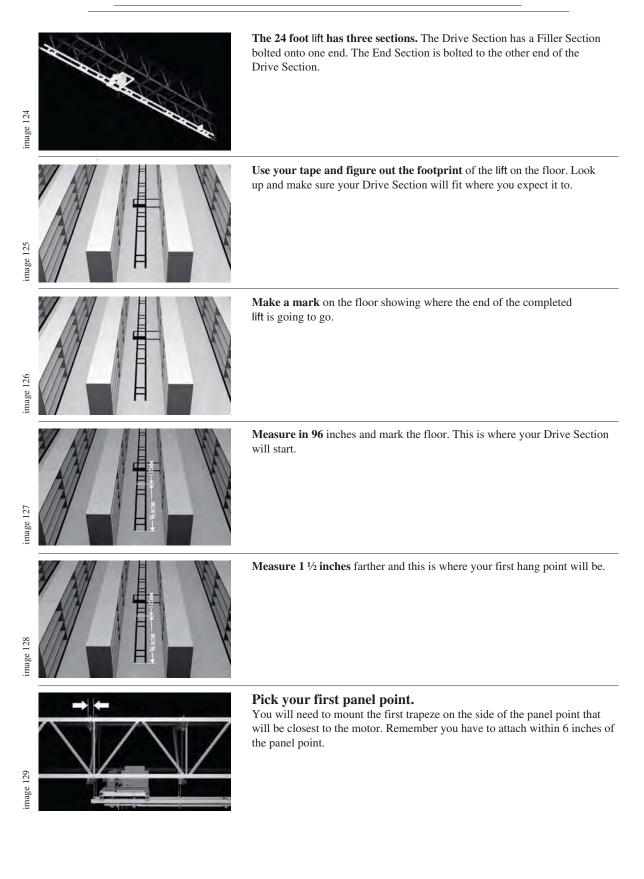
Safety glasses Safety harness and lanyard Hard hat Steel toe work boots Work gloves Reflective safety vest Utility knife Needle nose pliers Screw driver, 1/8 standard and #1 Phillips Side cutter Multimeter 25 foot tape measure Level, 2 feet long minimum, magnetic is best Hammer, finishing Drift punch, 7/16 Open end wrench set, standard, sizes 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 9/16, 5/8, 5/8, 3/4, 11/16, 13/16, 3/4, 7/8 in. (2 sets) Power drill with a 3/8 nut driver and a 5/16 nut driver Hex wrench set, metric and standard Sawsall, with blades to cut metal and wood













#### How to Build a Trapeze

Parts needed to build a trapeze Unistrut, double (1) Unistrut, single (1) Threaded rod, 7 inches long (2) Threaded rod, 3 feet long (2) Rectangle washers (10) Round washers (2) Flange nuts (12) Angle iron brace (1) Tec screws (4)

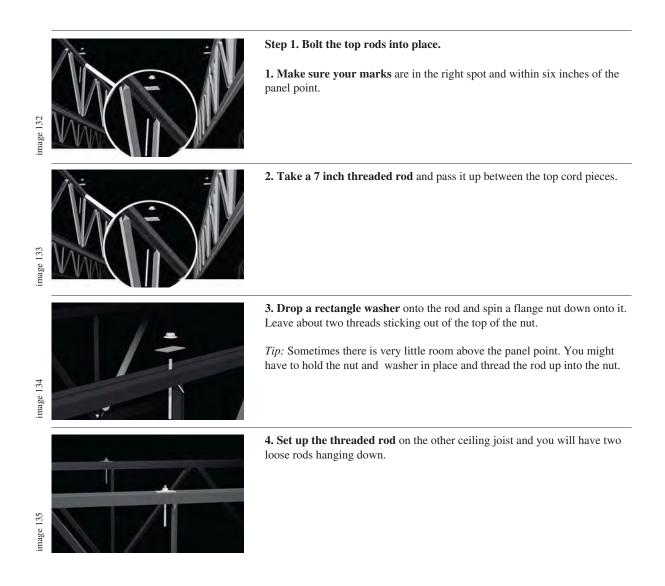
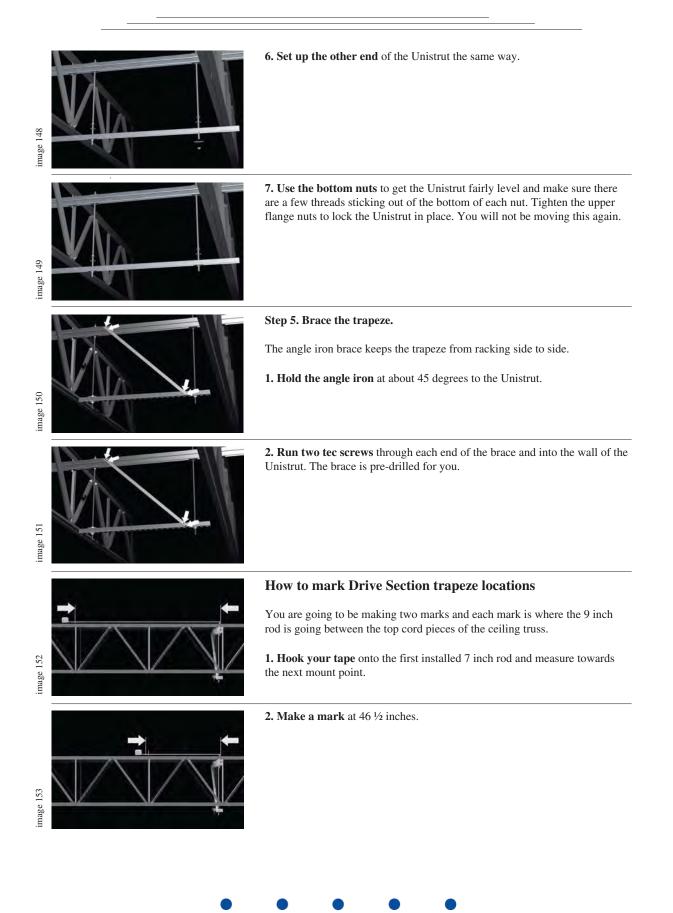
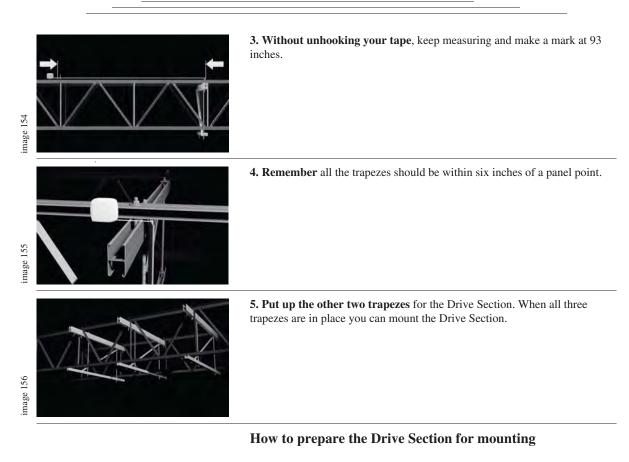


image 136		e double Unistrut to the top cord. ble Unistrut centered and slide it onto both rods.
Image 137	2. Use the rect	angle washers and flange nuts hold it up.
image 138	tightening the f	you are within six inches of the panel points before flange nuts tight. You will not be moving these again. You ouble piece of Unistrut bolted to the roof joists.
image 139	These rods hav	e 3 foot rods into place. e to go between the joists, not outside the joists. and pass it up through the double Unistrut.
image 140	2. Drop on a r threads poking	ectangle washer and spin down a flange nut. Leave about two of the nut.
image 141	3. Slide up a r	ectangle washer and spin up a flange nut to lock it in place.
	• •	• •

image 142	<b>4. Do the other rod</b> and you will have the two long rods hanging down. You will not be moving these again.
Image 13	<ul><li>Step 4. Bolt on the bottom single Unistrut.</li><li>1. Spin a flange nut about four inches up the rod with the flange facing down.</li></ul>
image 144	2. Slide a rectangle washer up the rod.
image 145	<b>3. Slide the Unistrut up</b> the rod with the open legs of the Unistrut pointing up.
image 146	<b>4. Slide a round washer up</b> the rod. <i>Note:</i> Most guys like to mount the Unistrut with the slots down. If the slots face up, you have to look up between the legs of the Unistrut to find the slot before you slide your rod in.
tinge 147	<b>5. Spin a flange nut up</b> the rod to capture everything, but don't tighten it yet. Make sure there are a few threads poking out of the bottom of this nut.





1. Park the scissors lift where you are going to mount.

Tip: Park a wheel on one of the marks you put on the floor.

2. Lift the frame onto the top rails of the scissors lift. The empty frame weighs 140 pounds. To stop it from sliding around position it so the bolts straddle the rails.



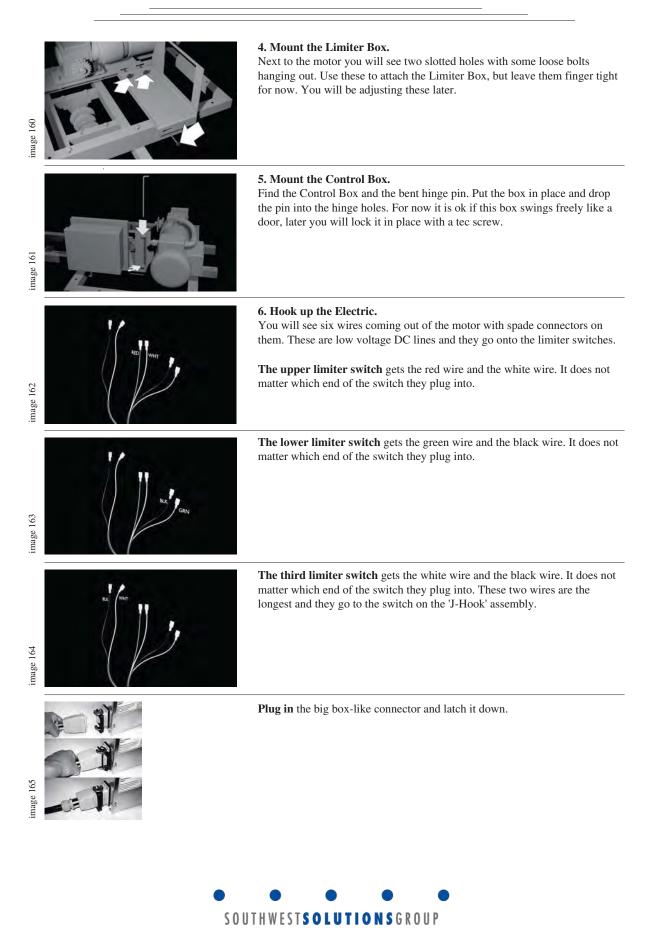
3. Mount the motor. On the thick mounting plate for the motor you'll see the four mounting studs. There'll be two flange nuts on each stud. Take the top flange nuts off.

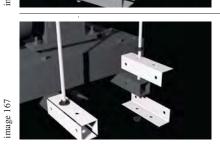
Adjust the lower nuts so there is about one inch of thread showing. You will be adjusting these lower nuts later on to tighten the big chain.

The motor weighs about 130 pounds. Lift it onto the studs and put the flange nuts back on. Screw these down just finger tight. You will be adjusting the lower nuts to tighten the big chain later.









#### 7. Set up the corner hang rods.

Each corner gets two L-Brackets. These are the long bent plates with four holes punched in them. The bottom flange nut should have a few threads poking out. The top flange nut should be only finger tight, you will be loosening this

soon. If you tighten these nuts all the way down now, they will be very hard to adjust.

#### Parts needed for each corner:

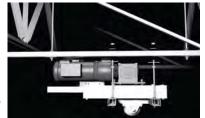
Threaded rod, 2 feet long Top flange nut L bracket, on top Square tube frame L bracket, under Lower flange nut

Set up the rods in the middle of the frame. These are held in place with flange nuts and they can be tightened down all the way.

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**8. Set up the top nuts.** Go to the top of each rod and spin on a flange nut with the flange facing up. Have about four inches of rod sticking out.



#### 9. The preliminary mounting.

Raise the scissors lift and pass the six threaded rods through the Unistrut. Take your time, this can be a little tricky.

Before passing the six threaded rods up through the Unistrut, make sure you have the correct washer on top of the flange nut. The round washer touches the slots of the Unistrut. The rectangle washer touches the open legs of the Unistrut.

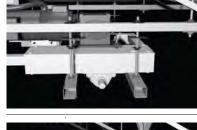
#### Make sure you are mounting straight.

When mounting cross ways to the ceiling joists, use your tape to measure from a wall or other fixture. When mounting in-line with the joists, you can count the open Unistrut slots to make sure you are going straight.





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When you put your rod up through the Unistrut make sure you have the washer set up right. Spin down the top flange nut and make sure that a couple of threads are sticking out of the top of the nut. The lower washers and nuts should be low and not touching the Unistrut.

Later you will be using the top nuts to level the frame. When it is all level you will tighten the lower nuts. For now the lower nuts should be loose.

**Lower the lift a little** to see that the Drive Section is hanging from the top nuts ok. Check to make sure the power cord will reach the outlet box.

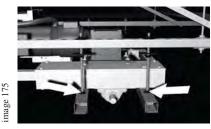
image 173



#### 10. Check your height.

Measure from the floor to the top of the frame. You will need 15 feet and 6 inches minimum. More is fine. If you are too low, raise the frame by screwing down the top nuts.

Target wants at least 8 feet 10 inches clearance under the lowest hanging bike tire. Some of their forklift loads are 8 feet high and they do not want to hit the bikes.



#### How to Level the Drive Section

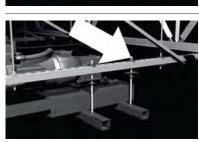
When you are done with this step your frame will be level and locked in place. All the nuts at the top of the rods will be fully tightened.

The nuts at the lower end of the rod (touching the square tube frame) will be snug, but not fully tightened down yet. This is because you will be loosening the corner nuts when you bolt on the other sections.



#### 1. First corner.

Start leveling by locking in only one corner. Start with a corner on the heavy end of the frame. Pick the corner that is NOT closest to the motor. If you start with the other corner, it acts like a teeter-totter and you will spend a lot of time readjusting things.



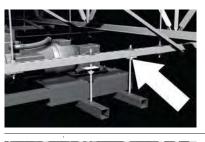
**Go to the nut at the very top** of this rod and turn it so there are at least five or six threads sticking out of the top of the nut. It is ok if there are a couple of feet of threaded rod sticking out of the top of the Unistrut. That might be necessary because of low ceiling joists.





# image 174

image 179



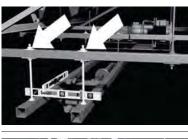
Go to the top of this rod and spin up the lower nut and fully tighten it. You will not be adjusting these anymore. Your first corner is now locked in place and everything along the whole machine will be made level to this corner.



#### 2. Second corner.

The next corner will be the one closest to the motor. Put your level across the frame the short way. Turn the nut at the top of the rod to adjust the level. Make sure there are always some threads poking out of the top of the top flange nut. When it's level, tighten the two top flange nuts together for good.

# image 180



#### 3. Corner three and four.

Go to the far end of the Drive Section and do these corners one at a time. You will be using your level both the long way and the short way to get it right. When the frame is level, tighten the top nuts.



#### 4. Middle rods.

When all the corners are level, you can set and lock in the middle rods.



#### 5. Finishing up.

When you are finished look up at the mounted section. There should be only a few threads sticking out of the bottom flange nuts. If you have more than an inch of rod sticking out, cut the rod back with your Sawsall. Measure from the floor to the top of the frame again. Write this measurement on your Job Order.

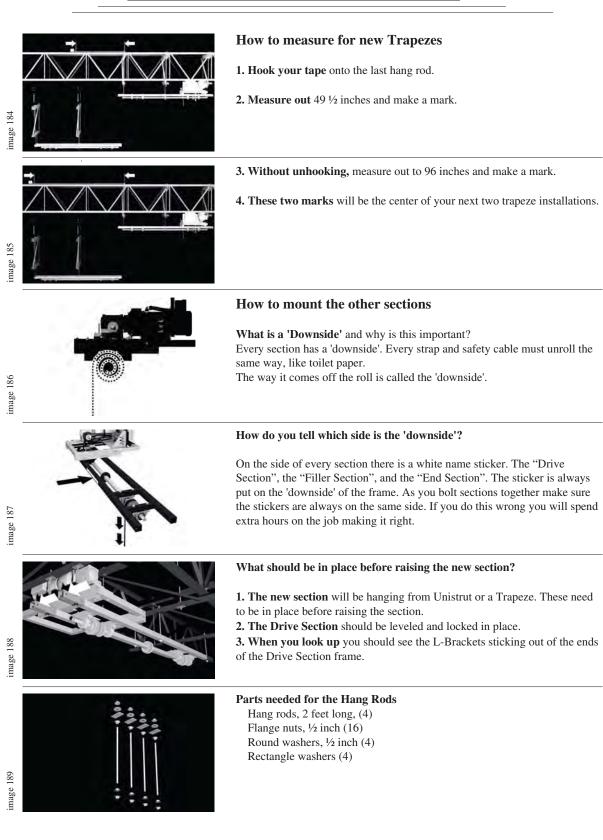
# image 182

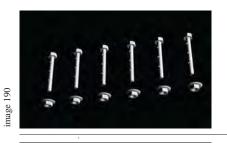


**Make sure your power cord reaches the outlet box.** Clear off any loose parts or tools, you don't want these falling on anybody.

Next we'll bolt on the other sections.







#### Parts needed for the L-Brackets:

Hex head bolts, 3 inch x 7/16 (6) Flange nuts, 7/16 (6)

Note: If you are going to be attaching another section to this one, you will need four new L-Brackets. When you are finished hanging this section the new L-Brackets will be sticking out of the end. They will be loosely held in place by the threaded rods.

#### Parts needed for attaching the Drive Shafts: Roll pins, 7/16 x 2 (4) Hex bolts, 1/4-20 x 2 1/2 inches long (4)

Flat washers, 1/4 inch (8) Nylon hex nuts, 1/4-20, (4)

#### How to connect the new section to the Drive Section

1. Move your scissors lift to the right spot. With your helper put the new section onto the lift.

*Tip:* Take a 2 x 4 from your packing crate and put it across the rails of the scissors lift. The section will be easy to move around if you do this.



2. Slide the square drive tube onto the round shaft sticking out of the Drive Section.

This square tube stays loose for now.

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195 image

191 image



#### 3. Move the top L-Brackets out of the way.

On the end of the Drive Section the top two L-Brackets should not be tightened down yet. Spin the nut up the rod a few inches and slide the top L-Brackets up and out of the way.

The lower L-Brackets won't move because they are pinched between the frame and the lower nut.

#### 4. Bring the new section into place.

Move it so the round shaft slides into the square drive tube. Butt the frames together and swing the top L-bracket back into place.





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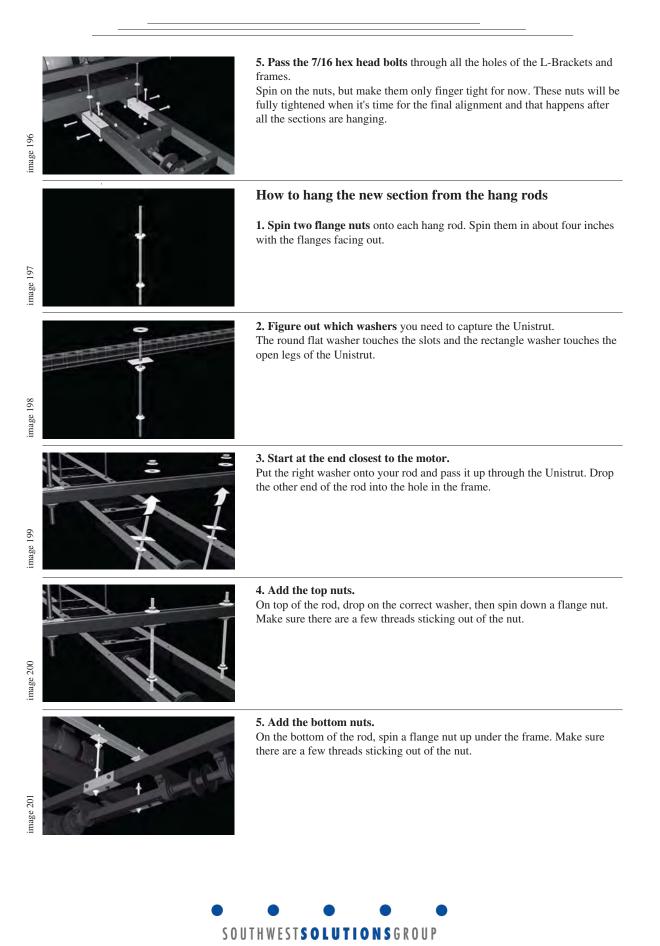
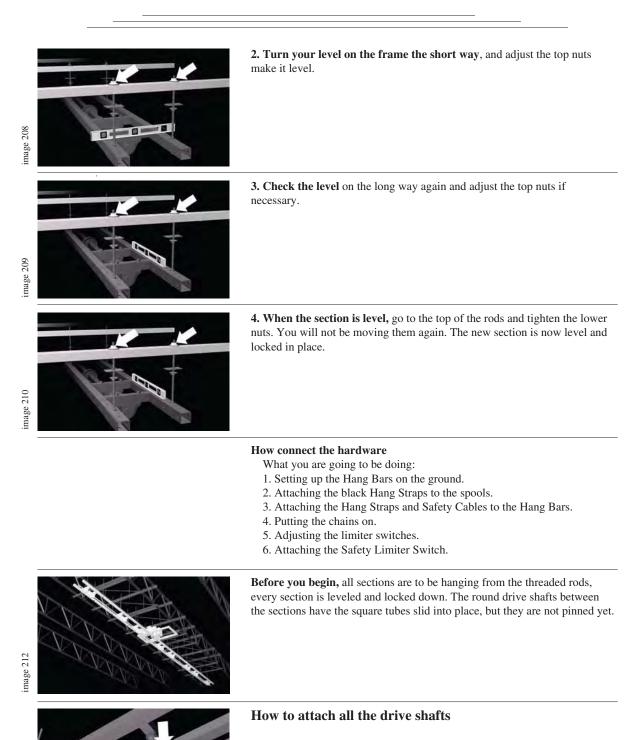


image 202	<b>6. Tighten the nuts.</b> On the end of the frame touching the Drive Section, tighten the nuts pinching the frame. You will not be moving these again.
image 203	<ul><li>7. L-Brackets IF you are going to be attaching another new section to this one, you will have to set up the new L-Brackets. These go on the open end of the new section.</li><li>Do not tighten the nuts touching the top L-Brackets because you are going to have to move these top L-Brackets out of the way for the next section. The nuts under the frame will be holding the lower L-Brackets in place.</li></ul>
image 204	<b>8.</b> IF this is the last section to bolt on, you can tighten the nuts on top of the Frame all the way down. No L Brackets.
image 205	<b>9. Finishing.</b> All four rods should be sticking up through the Unistrut. At the top of the rods, the lower flange nuts should not be tightened at all, and there should be a couple of threads sticking out of the top nuts.
image 206	How to level the new section <i>Note:</i> You will be adjusting the nuts on top of the Unistrut to level the section. Do not tighten the nuts below the Unistrut until your section is completely leveled.
image 207	<b>1. Put your level longways on the frame.</b> This is easier if you start with the nuts farthest away from the motor. Adjust the top nuts to level the frame the long way.

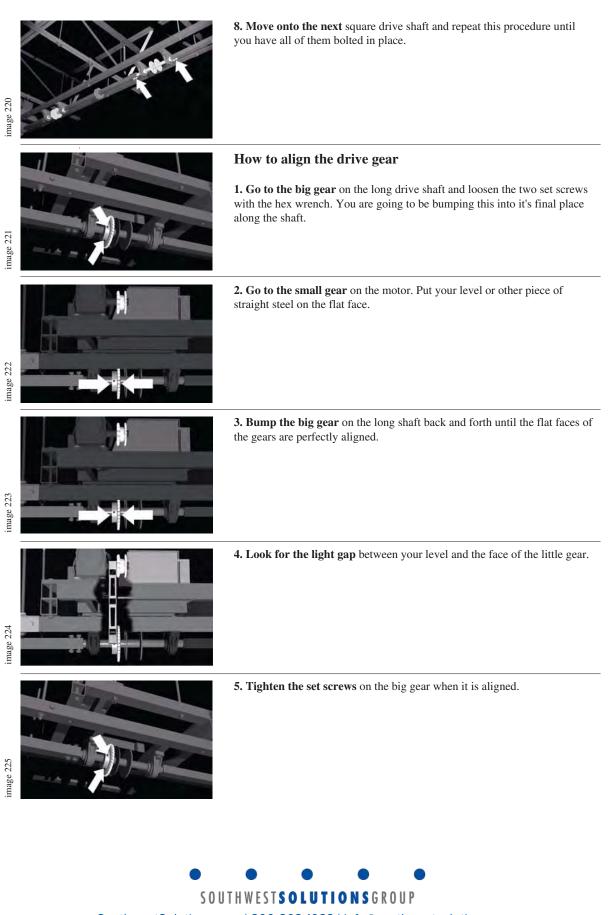


**1. Loosen all the set screws** with the hex wrench on the pillow block bearings, except for the bearings on the Drive Section. There are two set screws in the collar of every bearing.



mage 213

image 214	<b>2. As you attach the drive shafts,</b> make sure all the slots in the round drive shafts line up the same way. Usually they are all facing straight down. This makes all the straps roll onto the spools at exactly the same rate. If you do this right you will have to unpin and unbolt the drive shafts that are set up wrong. You will not know it is goofed up until you make your first test run.
image 215	<b>3. Go to the Drive Section</b> and start with the first square drive shaft. Line up the holes in the square tubing with the round drive shaft. Use the 7/16 inch tapered punch and your hammer to do this. You will have to bump the round drive shaft back and forth a little in the bearings.
image 216	<b>4. Pound in</b> the first two hardened Roll Pins.
image 217	<b>5. Lock the pins</b> in place by passing the 2 12 inch long <sup>1</sup> / <sub>4</sub> inch hex head bolt through the center. Put a flat washer on either end of the roll pin and capture the bolt using the Nylock hex nut.
image 218	6. Attach the other end of the square drive shaft the same way.
image 219	7. Tighten the set screws on both of the bearings at that end of the section.



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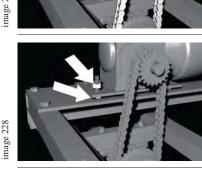


#### How to set up the drive chain

*Note:* If the chain is too loose it will skip or jump and you will hear an unpleasantly loud 'bang bang bang' noise. If the chain is too tight, you put pressure on the oil seal of the transmission and the fluid starts leaking out after a few months. When the chain tension is just right you can flop it back and forth a little bit. If it flexes the thickness of a pencil, that's just right. The motor feet are bolted onto the studs sticking out of the motor plate. There is a nut above and below the motor base.

#### How to adjust the chain tension:

1. Lay the big 80 chain around the gears and close it with the master link.



**2. To get the right tension on the chain**, loosen the top nuts and turn the lower nuts to raise or lower the whole motor. Try to make all the lower nuts the same height.

3. When you have the right tension, tighten down the top nuts.





#### How to attach the top of the straps

**1. Check to make sure** all your reels are unwinding the same way, check the 'downside' stickers on the side of the frames. All the stickers on the frames should on the same side when you look up from the ground. If this is not right the backward section has to be unmounted and turned around.

image 230



**2. Start with any spool.** Unwind a strap and let the metal end go to the ground. You will be holding the sewn loop at the end of the strap.

*Note:* The loop is made by folding the strap before sewing it down. The short side of this loop is called the 'tab' side. When the strap starts winding, this 'tab' touches the shaft first. If this is set up wrong, this strap will wind up tighter than the other straps and could bend the hang bar. You will have to go back and correct this if you do this wrong.



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**4. Look at the spool flanges** and notice the punched holes near the center. Notice the groove cut into the round drive shaft. Turn the shaft so the groove is pointing down. Put the loop of the strap into the groove and push it a little to open the loop.

**5. Take the round strap pin** and slide it through the punched holes and through the loop. This pin holds the strap onto the spool. With the loop pinned in place, the strap should go up and over the shaft. The long end of the strap going to the ground needs to be on the 'downside' of the shaft.

Note: Make sure the 'tab' of the strap is touching the round shaft. This is an important detail.

# mage 233



#### How to attach the straps to the Hang Rods

**1. Connect the Limit Switches,** see page 6 'Hooking up the Electric' if this is not done yet. The switches are not adjusted to their final positions yet. Right now they are only connected so you can run the lift up and down.

# image 249

#### 2. Go down to the ground.

With the top of the straps connected correctly, use the push button to move the machine into the UP position. Bring the bottom metal tab at the bottom of the strap up to about chest level. This is the best height to work at.

#### **3. Attach the Spade Bolt** to the metal tab.

Use the hex head bolt,  $3/8 \times \frac{3}{4}$  long and the 3/8 Nylock locking nut. The threads should be into the nylon but the tab should still be able to swivel. Mount all the Spade Bolts the same way so they look good.

image 236

image 237



### **4. Spin a 7/16 flange nut** about 1 <sup>1</sup>/<sub>2</sub> inches up onto the Spade Bolt with the

flange facing down.



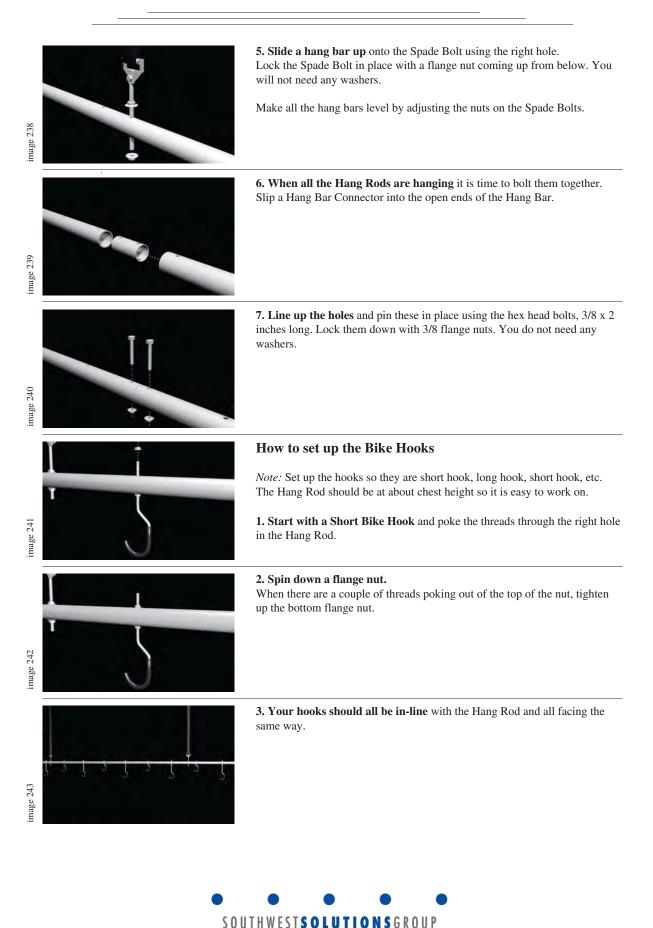
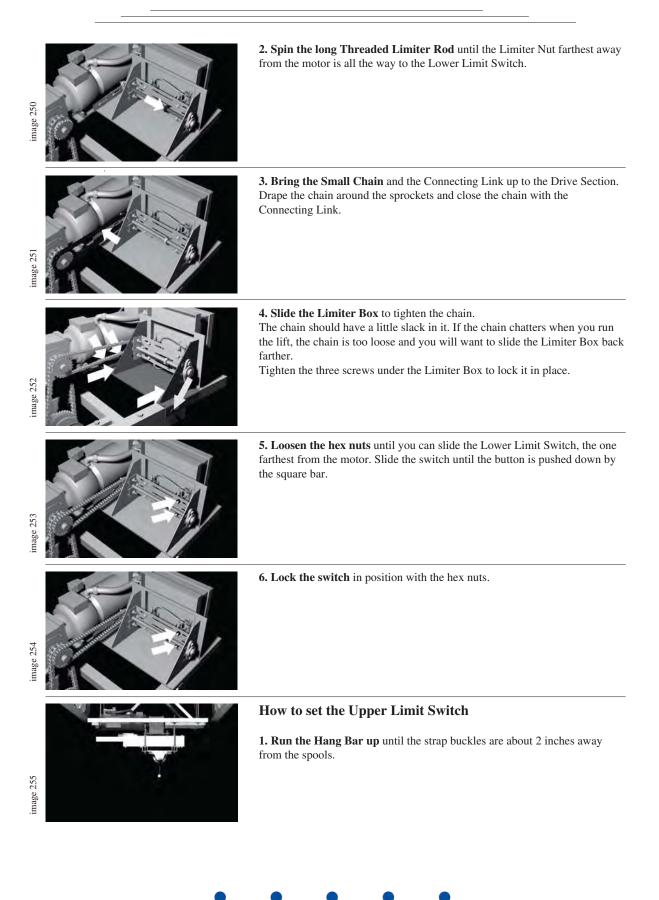


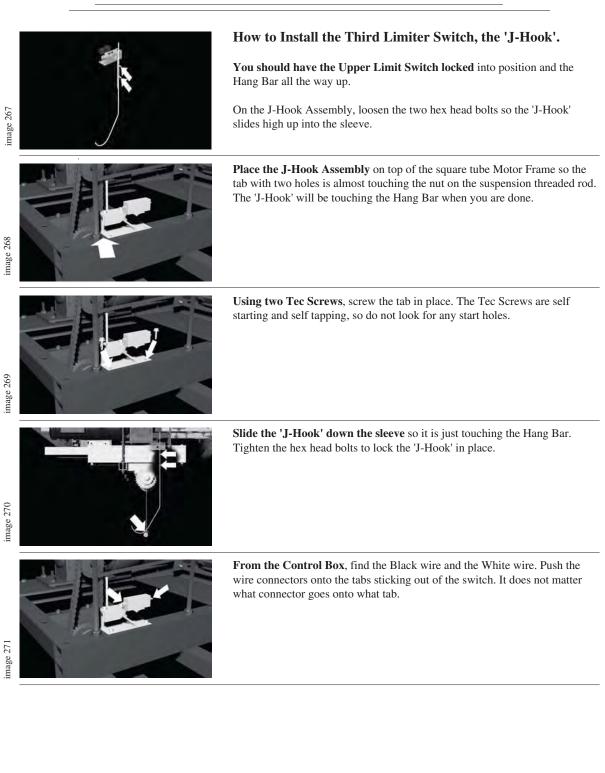
image 244	How to set the Limit Switches Note: You are going to be sliding two switches back and forth to get them in the right positions. The switches are held in place with hex nuts, use your <sup>1</sup> / <sub>2</sub> inch wrench.
image 245	The switch closest to the motor is the Upper Limit Switch and the switch farthest away from the motor is the Lower Limit Switch.
inae 246	The wires going to the Upper Limit Switch are Red and White.
inge 24	The wires going to the Lower Limit Switch are Black and Green.
image 248	<b>The switch is triggered</b> when the small square bar hit it. The square bar is welded to a big hex nuts that run along the threaded shaft.
	How to set the Lower Limit Switch
image 249	<b>1. Run the Hang Bar down</b> until it is between 6 <sup>1</sup> / <sub>2</sub> and 7 feet off the ground. This will be the working height of the Hang Bar when it is full down.



inge 25a	<b>2. Loosen the hex nuts</b> until you can slide the Upper Limit Switch, the one closest to the motor. Slide the switch until the button is pushed down by the square bar.
inace 256	<b>3. Lock the switch</b> in position with the hex nuts.
	How to attach the Safety Cable
image 255	<b>1. Run the Hang Rod up</b> to it's top limit.
image 258	<b>2. Unwind the Safety Cable</b> until the threaded cable end is down to the Hang Rod.
	<b>3. Spin a flange nut</b> about 2 inches up onto the threaded cable end with the flange facing down.
image 259	
image 260	<b>4. Drop the threaded cable end</b> through the Hang Bar and spin on the lower flange nut.
• • • •	
S	

image 261	<b>5. Make sure</b> there a couple of threads sticking out of the lower nut and tighten down the top nut.
image 262	6. Set up all the Safety Cables.
image 263	<b>7. Run the Hang Rod full up</b> and watch the Safety Cables. When starting to wind up, the Safety Cable should be hanging limp. The Safety Cable should never look like it is being pulled tight.
image 264	<b>8. If the Safety Cable is too loose,</b> you can unbolt it from the Hang Bar and give it another wrap around the spool.
image 264	<b>9. If the Safety Cable is too tight,</b> you can unbolt it from the Hang Bar and unwind it one wrap from the spool. You can also massage the cable while it on its spool to loosen it a little.
image 266	<b>Bolt the End Caps</b> onto the open ends of the Hang Rod and you are done with the mechanical part of the install.





mage 267

image 268

image 269

image 271



#### Before you leave the site:

**The most important paperwork** you will need on the install is your Work Order issued from Lift &Storage Systems, Inc. Before you leave the site you MUST have the signatures of the GC and or the OSR. If you do not get these signatures they do not have to pay us and that is not good.

Clean up all your messes. Clear away any litter, loose parts, trash and crate material laying around.

If you have to leave the site before installing there are three things you should do:

- 1. Call *Southwest Solutions Group* before you leave and let them know what's going on. They will schedule a different install date.
- 2. Write a note on your Work Order.
- 3. Have the GC or OSR sign your Work Order.

Do not to start an install if the site is not ready, if the power is not in place, or if there are things that need to be moved.

**Tip:** Do not open the crate unless you are ready to install. If you open a crate and leave it overnight, you can expect pieces and parts to be missing in the morning. Sometimes they will move your crate during the night because it was in the way.

#### What if there is stuff in the way?

This could be a heater, lights, ductwork, gas lines, sprinklers, etc. Get in touch with the GC, General Contractor, right away and show him what the problem is. If it is going to take more than two hours to get things cleared away, you can leave the site but only with a sign off and permission. If you do not have both of these, do not leave the site.

#### What if there is no power box in the ceiling?

Get with the GC and show him what the problem is. You can start your install if they are going to get to it quickly.

If you are not going to get power today, there is another option. You can do most of the installation now and come back to finish when the power is in place. You can install everything except the hang bars, cables and straps. Take your tools and all loose parts with you. Call us before you start and they will schedule the finish installation.

#### What if the scissors lift is not there, is too short, or is unsafe?

Check it out and make sure the down rigger feet extend all the way out and down, it goes all the way up, the safety chains are in place, and the railings are all pinned in place.

If there is something wrong call the rental company and get it resolved.



#### What if there is not enough room for the lift to be installed?

Sometimes there is shelving in the way that does not show up on the blueprints.

Get with the OSR, Owner Site Representative, and show him what the problem is. He might decide to leave an eight foot section off and go with a shorter lift.

Write this on your Work Order and get his signature before opening the crate.

#### What happens if there is a section left over after the install?

Call Southwest Solutions Group

#### What if the lift really can't be mounted where the blueprints say?

Get with the GC and the OSR and show them what the problem is. You can usually vary a few inches from the print. If it is more severe than that, you will not be installing today.

They will have to get in touch with Structural. They will figure out the new location, work out the load details, and redraw the layout.

Write this on your Work Order and get the OSR's signature before leaving.

Call us and tell them what's going on. They will schedule a different install date.

#### What if the roof trusses are too high, more than 26 feet off the floor?

Before each lift is crated, lift checks the store blueprints to get the distance from the bottom of the truss to the floor. Most ceilings are normal height and we send the black 15 foot straps. If the ceiling is high we send the black 20 foot straps. When you open the crate you will find all the straps in a thick plastic bag. Every bag is marked showing either 15 or 20 foot straps.

If the bottom of the truss is high, between 21 and 26 feet off the floor, make sure you have the 20 foot straps.

If the bottom of the truss is higher than that you will have to make longer trapezes. This means you will be going shopping at The Home Depot or other big hardware store. Pick up 18 threaded rods, 6 feet long, 1/2-13 thread. You will also want 9 pieces of 6 foot long angle iron for the diagonal braces.

#### What if the roof trusses are too low, lower than 15 feet six inches off the floor?

Unless you can tuck the lift up between the joists, it is going to be extra low. Get with the GC and show him what the problem is.

This is usually not a big deal, but you do have to note it on your Work Order and have the GC sign off on it before opening the crate.

Also, call Southwest Solutions Group and let them know what the actual machine to floor measurement will be.



SOUTHWEST SOLUTION SGROUP

**Disclaimer:** 

*Southwest Solutions Group* is not responsible for injury or damage if the lift is overloaded, improperly loaded, bikes have not been secured to the bar, or bike hooks are not in the locked position.

#### Warnings:

• Do Not Overload. Overloading will void any warranties. 600 pounds per 8 foot section is the maximum weight allowed. Overloading could cause serious injury to people and major damage to the lift.

• Death or serious injury can result from falling items. Secure all hanging items to keep them from falling or tipping when the Hang Bar is raised or lowered.

• Keep areas under the lift clear and open when operating. Do not allow people to walk under the lift while it is running. Use of traffic cones or barricades may be required when using the lift.

• Always watch the Hang Bar when raising or lowering.

• Do not climb on, hang from, or play on any part of the lift. This machine is designed to hold merchandise only, not humans.

• Keep all controls away from children.

• Do not lift the Hang Bars. This could cause the Hang Straps could come off the Reels.

• The lift safety systems are not to be bypassed or circumvented. The purchaser is responsible for purchasing the lift with applicable safety features required by their given area and fulfills their particular needs.

• In case of fire do not use this machine.

• Any repair or adjustment must be performed by qualified maintenance personnel and only.

• Before any repair or adjustment are made all hanging items or loads must be removed.

• Hanging goods should allow for full 'head room', 7 foot minimum, when bar is in the full 'UP' position. Always allow enough headroom for all fork lifts, mobile ladders, etc. that are being used in the area of the lift.

• When not in use, the Hang Bar should be left in the full 'UP' position. This will prevent people from bumping into the hanging goods.

• Failure to follow safety and operational rules will void all warranties.

• Your lift is equipped with a Freefall Arrestor that prevents the goods and Hang Bar from falling if there is a mechanical failure.

• If you hear a snapping sound and see jerking, STOP the lift immediately! Cut power and call maintenance.



#### How to Use

Note: Lift & Storage Systems, Inc. is not responsible for injury or damage if the lift is overloaded, improperly loaded, or if Hang Rods have not been properly secured to Hang Straps.

#### How to Load

Spread out load when starting to load the Hang Rod.

Do not bunch up your load at one end of the Hang Rod. This could make the other end tip up and may dump your load.

#### How to bring the lift Down.

Make sure nothing is below the lift.
Push and hold the Down button. The machine will automatically stop when it is in the full down position.

Note: You can stop the lift at any time by letting off the button.

#### How to make the lift go Up.

1. Make sure your load is evenly distributed along the Lift Bar.

2. Push and hold the UP button. The machine will automatically stop when it is in the full up position.

Note: You can stop the lift at any time by letting off the button.

