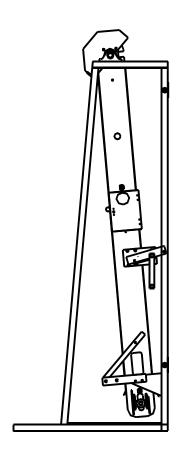
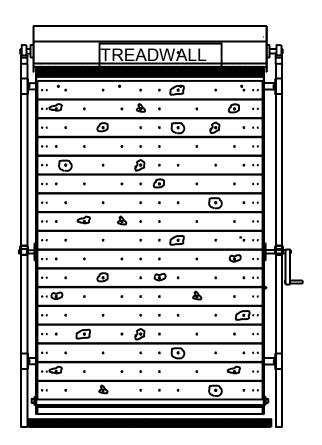
INSTALLATION MANUAL

TREADWALL, Model PE

Wall Mount





ROTATING AND STATIONARY WALL SYSTEMS



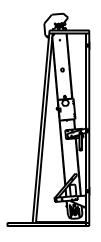
Brewer's Ledge Inc. ● 34 Brookley Road ● Boston MA 02130 ● 800-707-9616 ● www.treadwall.com

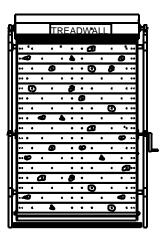
TREADWALL® PE wm Install Manual

The manual for the Treadwall PE wall-mount is arranged as a check list. As you go through we encourage you to check off the steps.

The Treadwall is a large, but not complicated machine. None of the steps in this manual are particularly difficult, but it is important to follow all of the steps carefully.

The order of assembly is important at certain points, so read each page. A video accompanies this manual, A play-through before you start is highly recommended.





Requirements:

Treadwall installation is a full day's work for two people. The installers should have mechanical aptitude and some experience with mechanical assembly.

Two Stepladders eight foot and sturdy are required. If you don't have them, rent them!

Other tools:

VSR Electric drill with bits (and extension cord if it is not cordless) #2 Phillips bit

Combination wrench set - particularly the sizes 3/8", 9/16", 3/4". Socket wrench set - particularly the sizes 3/8", 9/16", 3/4".

Hammer

8" crescent wrench

Screwdrivers

Tape measure

Work gloves

Allen wrench set

Pair of pliers with nippers

2 carpenter's aprons

Knife

Eye protection

Vice-grip pliers

Small jar or tube of Vaseline

Silicone spray lube

Hand cleaner

Spray cleaner and rags

Carpenter's apron (to hold small parts and tools)

IMPORTANT: The Treadwall transformer is designed for use with 110 volt 60 or 50 cycle AC current. It supplies 12 volts DC at 1.5 amps to the Treadwall. Users with different supply voltages must use a conversion transformer or other means to provide the proper voltage.

ABOUT THIS MANUAL:

This manual is extracted from the standard Treadwall PE install manual with irrelevant material deleted. <u>Use the supplemental instructions</u> to install the main support frame, and then continue with the following pages.

The pictures in this manual show a standard Treadwall PE, but the main difference is in the frame construction, and the relevant points are well illustrated.

Supplemental instructions for the Wall -mounted Treadwall

The basic differences between a standard Treadwall and the wall-mounted version are in the support frame and the angle-changing mechanism.

Support frame:

The wall-mount version has one-piece side frames that are considerably narrower than the standard Treadwall frames. The frames are deep enough at the base to support the full weight of the Treadwall, but in use, they must be attached to a backing wall for lateral support and to provide front-to-back stability. The accompanying drawing, TWM-04, shows our recommendations for attaching the frames to the wall. Using 2x8 backing plates as shown in the diagram works very well and is highly recommended.

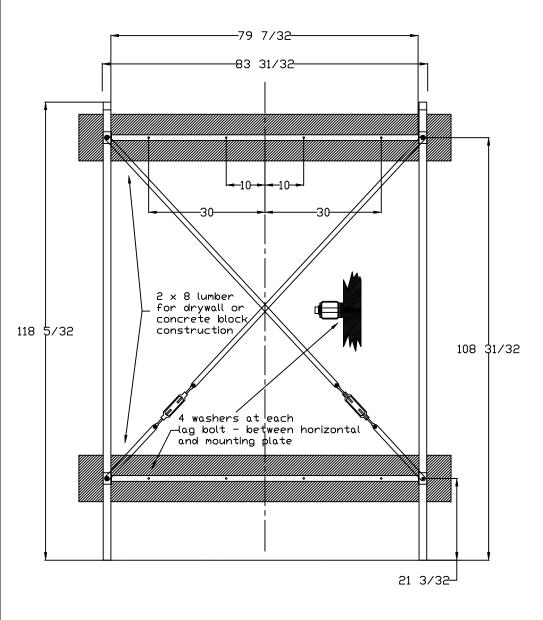
Steps:

- 1) Prepare backing plates and attach them to the wall as recommended
- 2) Assemble support frame two large side frames and two horizontal bars in the back. The horizontals have L-shaped brackets at the ends, and they should be oriented so that the "Ls" are toward the back of the frames.
- 3) There are flat x-braces, as shown in the drawing TWMM-04. These braces are attached with the same bolts that attach the horizontal bars to the frame. The bolt heads should be at the back of the frame with the hardware in this order, from back to front: Bolt head washer horizontal L-bracket frame upright x-brace washer lockwasher nut.
- 4) Once assembled, the frame is free-standing, but there is not a great deal of lateral support until the x-braces are tightened-up. Leave them a bit loose until the frame is mounted to the wall
- 5) Push the frame into place against the backing plates and drill ¼" pilot holes for the top four lag screws. Screw the top horizontal to the top backing plate with 3/8 x 3 ½" lag screws with washers and lockwashers. Use the provided shim-washers to space the horizontal out from the backing plate by about 3/8" (4 washers at each lag bolt). This provides clearance for the bolts at the ends of the horizontals.
- 6) The bottom of the frame can be slid back and forth with a chunk of 2x4 and a hammer until the frames are true and perpendicular. Use a carpenter's square to make sure the frame is square with the horizontals. When it is all trued up, put in the bottom four lag-bolts. Shim these lag bolts like the top ones.
- 7) Tighten the x-brace turnbuckles evenly.

Angle adjuster:

The rest of the Treadwall assembly is similar to the standard Treadwall, as shown in the Treadwall Assembly Manual, with the exception of the angle adjuster. Drawing TWM-01 and TWM-13 show how the wall-mount angle adjuster works. Simply bolt the angle bearings to the channels as shown and attach the swinging link to the back frame. The Treadwall is easily adjusted to a slab or overhanging angle by rotating the crank handle.

Encl: TWM-04, TWM-01, TWM-13, TWM-03

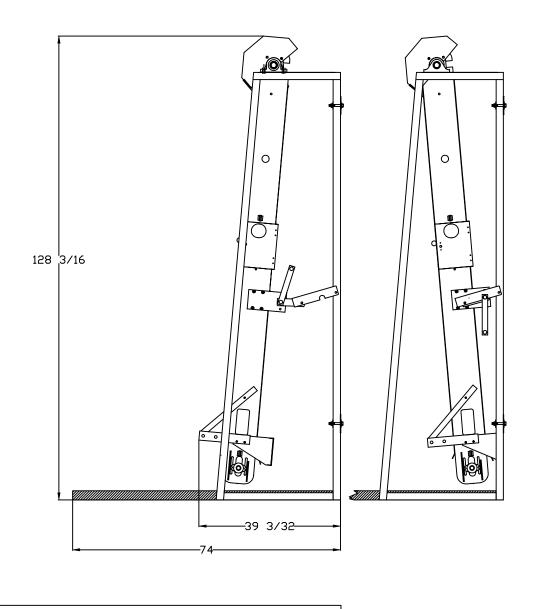


This diagram shows the mounting points for a wall-mount Treadwall. Note that the Treadwall requires about 8" of clearance on the right side for the adjustment lever. Anchors:

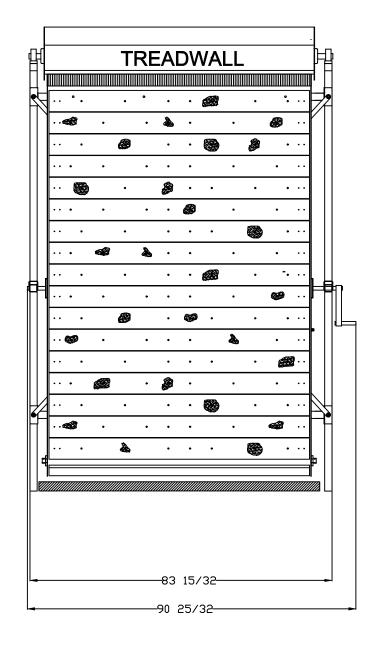
Solid concrete: (8) 1/2" anchors utilizing adhesive anchoring system (McMaster Carr #93980A170 or equiv.)

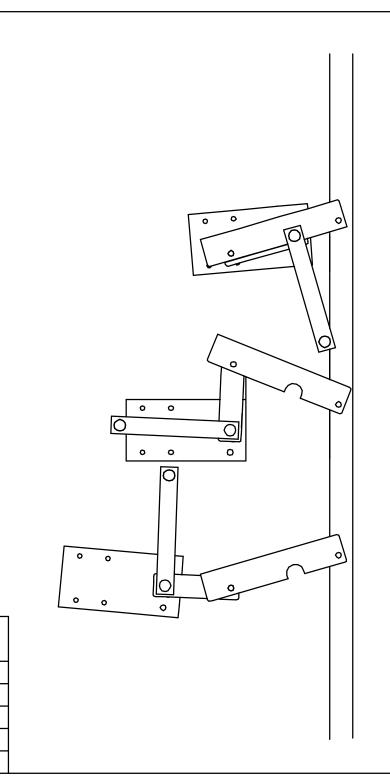
Two horizontal plates of 2"x6"x8' clear lumber should be mounted behind the Treadwall at centered heights of 21" and 109", fastened securely with construction adhesive and vibration resistant fasteners. For stud-wall construction, use at least two fasteners per stud. For concrete or concrete block, use appropriate anchors. The Treadwall is attached to these plates with (8) 3/8" x 31/2" lag bolts. Washers are provided (5 per lag bolt) as spacers to go between the horizontal and the mounting plate.

$^{\text{Dwg.}\#}$ TWWM -04	Part: mounting points
1 77 77 17 17 17	Date: 10-04-04
Material: Wall mounted T	readwall
Χ	X
Х	X
Х	X
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^{Dwg.#} TWWM 01	Part: elevations Date: 03-15-05
Material: Wall mounted Treadw	vall
Material: Wall illounted fread.	dii
X	X
X	X
Х	Х
Copyright Brewer's Ledge Inc.	(800) 707–9616





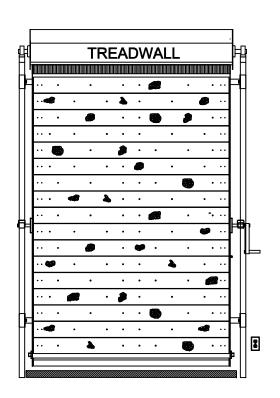
Dwg.# TWWM 13 Part: angle mechanism
Date 11-22-04

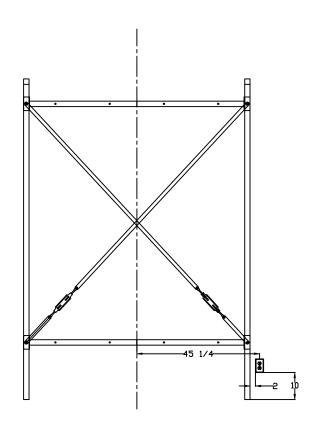
Material: varies

x x

x x x x x x x x x

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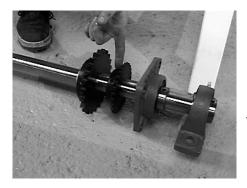


Power requirement: 110 volts, 1 amp.

This diagram shows the ideal location for a power outlet with a wall-mount Treadwall.

Power is provided with a plug-in transformer providing 12v at about 1.5 amp. The transformer has a 15 foot long output cord, and an outlet within this distance is acceptable if a means is provided to route the cord in a neat manner. excess cord length is stored inside of the frame. If the outlet is behind the Treadwall, it must be at least 36" from the floor to avoid inteference with the climbing holds as the Treadwall is being used.

$^{\text{Dwg.}\#}$ TWWM -03	Part: Electrical
	Date: 10-21-04
Material: Outlet Location	
Χ	X
Χ	X
Χ	X
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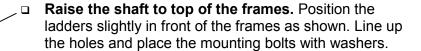


Main Shaft:

The main shaft has four bearings and three sprockets.







□ **Tighten the bearing-bolts** down firmly to the frame tops.



Preparing Channels and Control Panel:

Definition

The *channels* are largest pieces of the Treadwall. They are marked right and left.

Definition

The *control panel* contains the hydraulic pump and control machinery that runs the braking system.

Take a moment to look at the pump assembly - the heart of the Treadwall.

The pump is attached to an oil reservoir and a simple circuit with two valves. The rotary valve with a knob is the flow control. This controls the speed of descent of the wall by controlling the flow of oil from the pump. The other valve has an electric coil. This is a solenoid valve that closes when the photoelectric sensors are blocked by the climber's feet. When this valve is closed, the oil cannot flow, and the Treadwall stops.



- □ Find the right channel and **Lay the right channel down** on two chairs with the smooth side facing up.
- Attach the control panel to the channel. Remove the four bolts that hold the pump to the control panel. Also remove the nut and washers from the "fifth bolt" that is right below the pump and take the large washer off the pump shaft. Place the control panel on the channel as shown and use the four mounting bolts to attach through the slots Each bolt must have a flat washer to slide against the channel and a lock washer to hold it tight. See the tightening instructions below.

- □ **Put the "fifth bolt"** through the hole in the channel and replace the washers and nut.
- Push the panel assembly towards the top of the channel until it is at the top of the mounting slots and tighten the mounting bolts.

Important: Do not over-tighten the mounting bolts.

The torque specification is 3 foot-pounds, but most torque wrenches don't measure in this range. The five bolts should be tight enough to compress the lockwashers fully plus a little more - firm but not tight. The long tensioning bolt must be able to push the pump down for future adjustment of the drive chain.

Mounting the Channels:

- □ Hook the right channel onto the shaft just inside of the square bearing. This channel with the control panel attached is quite heavy a two person job. One person on the ground holds the channel in place while the ladder person bolts it onto the bearing. Only install the bottom rear bolt in the bearing at this time and leave the nut loose.
- □ Install the left channel on the other end of the shaft. *Again, only install the bottom rear bolt.*

Drive Chain

The *drive chain* connects the pump with the main shaft.

- Install the sprocket onto the pump shaft and tighten the setscrews securely. The hub side of the sprocket goes on first – outside of sprocket flush with the end of the shaft.
- □ **Install the large fender washer** over the sprocket to safeguard the sprocket if the setscrews become loose.
- Install the #40 drive chain between the pump and the sprocket on the upper shaft. The chain stays loose for now.











Bottom shaft, Back-guard, Channel X-bracing:

Definition

Bottom shaft: a 1" diameter shaft with two large sprockets. One sprocket is fixed and the other is loose.

Back-guard: a long flat piece with wing ends.

Definition

X-Bracing: 5/16" rod with a turnbuckle at one end.

Definition

- □ Place the shaft into the two bearings at the bottom of the channels, loose sprocket to the right. Slide the bearings all the way on up to the stop-collars.
- ☐ **Tighten the bearing setscrews**, but leave the bearing bolts loose so that the bearings can slide up and down in the slots

Make sure the setscrews are fully retracted before trying to insert the shaft. Also, if the shaft doesn't go in easily, unbolt the bearings from the channels and slip them onto the shaft. It's often easier and faster in the long run.

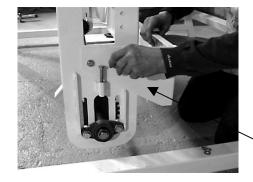
The back-guard attaches between the channels at the back near the bottom. It is shipped bolted together to the spacer bar. The back-guard mounting bolts are temporary. You will replace them with longer bolts that hold on the photocell and reflector brackets later.

Note the ends of the back-guard. The straight edge goes up. The angled edge goes down.

■ **Bolt the back-guard** temporarily onto the two channels with 3/8" bolts. You will replace these bolts with the photocell bolts later.

The *x-bracing* goes between the two channels - *turnbuckles* at the bottom.

Attach the x-bracing to the shackles in the channels. Tighten the turnbuckles evenly so that they are the same length and make them finger tight. Tighten the locknuts on the turnbuckles and fasten a piece of tie-wire through the shackle and turnbuckle body to keep them from loosening up.





Counter-timer, spacer bar, photocells:

Definition

Spacer-bar: a piece of 1 1/2" square tubing with a threaded hole at one end and a stud at the other (It is shipped bolted to the back-quard).

- □ Bolt the spacer-bar between the two channels about one foot above the adjuster pipe. Use the lowest of the three small holes. The stud-end goes on the left side the short bolt attaches the right end. The x-braces go on either side of the bar.
- □ **Mount the counter timer onto the stud.** See instructions at the end of this manual for wiring the counter-timer.

Definition

Photocell bracket: a piece of square tubing about fourteen inches long with wires.

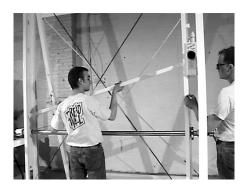
Reflector bracket: like the photocell bracket without wires.

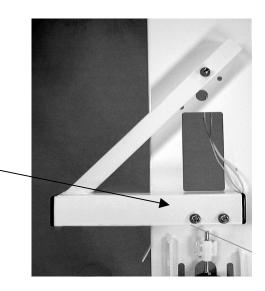
The brackets project out from the bottoms of the channels – photocell on the right and reflectors on the left.

- □ **Bolt the photocells** to the right channel. Remove the temporary rear-guard bolts and sandwich the end of the rear guard between the photocells and the channel.
- □ **Run the wires** through the rectangular access hole just above the bracket and up the inside of the channel, through the wire clips until they reach the spacer bar.
- □ Attach the reflector bracket to the left channel with the reflectors facing the photocells.

Wiring:

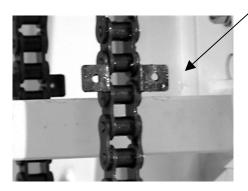
- □ **Frame wire at top of right frame:** Push wires through rubber-grommet hole in right channel and down through wire clips to the spacer-bar.
- Connect frame-wire to photocell-wires (two sets of bullet-connectors).
- □ **Push two longer wires** (marked "switch" and "valve") through slot at bottom of control panel and connect to switch and solenoid-valve.
- □ Attach the wires at the bottom of the frame to the transformer. Extra cord is in the frame if needed. Excess should be coiled at the top of the frame and pushed into the leg.
- □ Wrap the gray cord around the spacer bar, running it across the Treadwall to the left channel and out through the hole at the counter-timer. *Turn to page 15 for further wiring instructions.*
- □ **Plug in the transformer.** When you block either of the photocells, you should hear a faint click inside the photocell bracket. **Align them as detailed on page 15.**
- □ Attach wires to the spacer bar with ties leave no loose cord to catch moving parts.

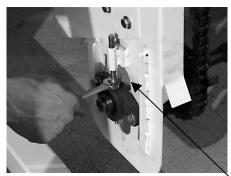


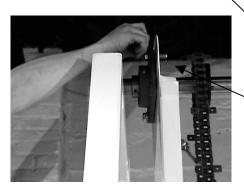












The Main Chains:

Protect floor under Treadwall from grease and wear gloves.

Remove one chain from the box. One person should hold the coil on edge and unwind it while the other raises the chain over the shaft.

- □ **Lift one chain** up to the main shaft and drape it over the shaft next to one of the sprockets. *Make sure the mounting tabs are facing out.* move the chain around the shaft until the two ends are equal at the bottom.
- □ **Lift the chain** onto the sprocket.
- □ **Repeat** for other chain.
- Synchronize the chains so that the tabs with holes are directly across from each other. If you don't do this, the Treadwall will not work!
 Line up one of the chain tabs with the horizontal spacer bar. Check that the other chain is also lined up with the other end of the spacer bar. If the tabs don't line up, adjust the chains until they are synchronized.
- □ Place the chains around the sprockets of the lower shaft and put on the master links.
- □ **Tighten the bearing mounting-bolts.** Only tighten these bolts enough to flatten the lockwashers so that future adjustments can be made without loosening the bolts

The shroud and proximity switch:

Shroud: a large part with "Treadwall" printed on it in big letters. It goes between the two channels at the top of the machine.

Definition

 Preparation: Line up the holes at the top of the channels with the holes in the large square bearings.
 This can be done at the bottom of the channels by adjusting the push-down bolts above the lower-shaft bearings.

When you adjust these bolts against the lower-shaft bearings, the channels are lifted until the holes at the top line up.

One person adjusts the push-down bolts while a person on a ladder tests the holes at the top with a bolt.

The shroud is awkward to lift, and lining up these holes will make mounting it a lot easier.

The shroud mounts at the top of the Treadwall, and the printed surface will be vertical.

- Place the ladders as shown, and lift the shroud to the top of the channels.
- □ Bolt it onto the top bearing holes with 1/2" bolts.

Definition

Proximity switch: A bracket with a black wire, shipped with the magnets and counter-timer in the parts box.

- Attach the proximity switch inside the top of the left channel using the top rear bolt of the large square bearing.
- □ Place the 3 magnets on the shaft. The magnets stick to the shaft by magnetic attraction. Adjust the magnets until the center of the magnets pass under the proximity switch with a 1/8" gap.
- □ **Bring the wire** down the inside of the channel through the clips and out through the hole near the counter-timer. Plug in the wire. **See page 15 for details**.
- □ **Turn the shaft** by pulling down the chains a few times to test the Counter-timer It should register one foot each time two magnets pass the switch.

Panels:

Putting on the *panels* is tedious but goes better if you are organized.

Check the chains again to make certain that they are still synchronized. (If you find that the chains are not synchronized when the panels are partly on, call us. We have a guick fix.)

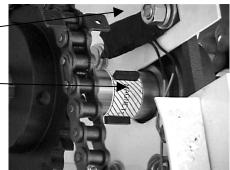
Tools:

A VSR battery-operated drill with an adjustable clutch and a #2 Phillips bit.

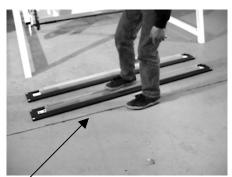
A 3/8" wrench – either a small socket or combination wrench.

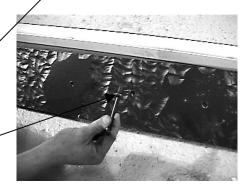
- Install a reinforcing channel ("stiffy") onto the back of each panel before bolting to the chains. The stiffy slips into the holes when properly aligned.
 If the stiffy is a tight fit, you can place the panel face down on the floor and step on the stiffy to push it into place.
- Attach the stiffy. On the front of the panel there is one hole near the middle of the that does not have a flat 'island' around it. There is a bag of short round-head bolts in the hardware box. Screw one of these bolts through this special hole to hold on the stiffy.



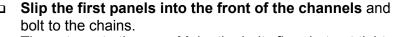








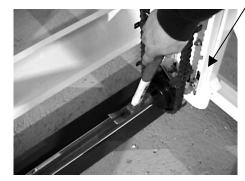




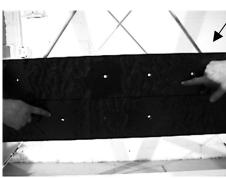
The nuts go to the rear. Make the bolts firm, but not tight enough to sink the heads into the panels. If you are using a cordless drill, use a very low setting on the clutch. On a DeWalt drill, we use a setting of 3.



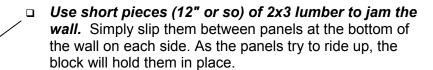
Align the sprocket. After the first panel is installed, rotate it around by pulling the chains down until the panel has made one complete rotation. This will align the sliding sprocket on the lower shaft. You may have to tap the sprocket into alignment with a hammer.



Alternate the panels. The holes are not symmetrical, and every-other panel should be turned over so that the holes alternate from side to side.



As you progress, and the panels are moving up the back of the machine, it takes a lot of effort to push them down. This is normal. You will need to hold the panels in front to keep them from sliding up.





□ **Bolt on the panels** until there are only three left.

- Measure the distance between the frame and the side of the right channel. This space should be 3 1/2". Adjust the rear turnbuckles to make this space 3-1/2". These turnbuckles should be quite tight when you finish. If this spacing is wrong, it may be difficult to lock the chrome ring onto the stud.
- □ **Install the last three panels** by slipping them in from the bottom.

Run the panels around until the gap is at the bottom front. Slip the panels in one at a time and install the bolts. Use the side openings at the channel bottom to access the nuts for tightening. Double check the orientation of each panel. Be careful not to pinch yourself.

Before installing the last panel, double-check to make sure everything is right inside. We usually wait until the holds are on so we can test the machine.

The last panel is somewhat awkward - be patient. Put the bolts and nuts in with the panel at the bottom or carefully rotate the panel upward until you can reach the nuts through the access hole.

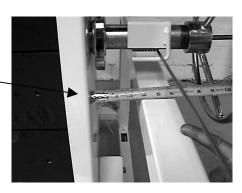
Very important – Adjust the chains!

The main chains are adjusted with the long push-down bolts at the bottom of each channel. These bolts push down the lower-shaft bearings, thus tightening the chains. If they are too tight, the wall will operate sluggishly, especially for lightweight climbers. As the wall rotates, the panels come around the bottom and reenter the channel in the back. If the chains are too loose, the panels will catch on the flange where they re-enter the channel and become damaged.

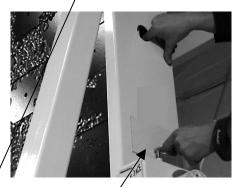
Adjust the chains. As you tighten the push-down bolts, watch where the panels re-enter the channel. Adjust until the panels clear the end of the flange by about 1/2". On a new machine the chains can be adjusted a bit firmer, since they will stretch, but don't overdo it.

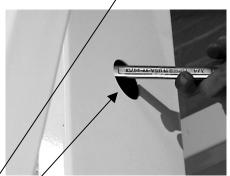
The drive chain is tightened by the push-down bolt at the top of the control panel. This chain should also not be too tight. As you tighten this chain, you can feel the slack through the round access hole above the control panel.

- □ Tighten the drive chain just enough to take out the slack. If you over-tighten this chain, you can loosen it again by loosening the push-down bolt and prying on the chain with a large wrench through the access hole.
- Make sure that someone at the facility knows how to make the chain adjustments. <u>Emphasize that all the chains will</u> stretch during the first week of use and have to be re-adjusted.



















Side Covers, Mat, Holds and Post Pads:

 Place the mat between the frames and attach the loops around the front legs of the frame. The short folded section goes to the rear.

The standard Treadwall hold set has 40 holds.

- Unpack all the holds and lay them out on the mat in front of the machine.
- Match the holds with hold-bolts. The bolt should project at least 3/4" from the back of the hold. Sometimes a few of the larger holds need longer bolts.
- Bolt the holds firmly onto the panels.

Start with one color and bolt one hold onto each 4th panel. Distribute them evenly from side to side as you go along. Repeat for each color. This will give one hold for each panel.

Each hold has a positive edge. Generally speaking, these positive edges should face up so that the climb will not be too intimidating, but put a few on as side-grips or under-clings to add interest. Once the holds are on you can fine-tune it by rotating holds and moving a few around.

Each color of holds can be a separate climbing route. Or you can combine colors to make a route. You will find that some routes are much easier than others

Very important - Don't allow larger holds to overlap onto the next panel. The holds supplied with the Treadwall are designed so that they will not overlap, but other holds may be larger. Also, holds must not stick out more than 2 ½" from surface of wall.

- Attach the two post pads under the cables on either side of the machine.
- □ **Use 5 cable ties for each pad.** position the ratchets at the bottom of the pad and space them evenly for appearance.

Cleaning up the machine completes the Treadwall installation.

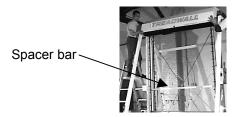
Treadwall Wiring - Counter-Timer and Photocell Alignment

COUNTER-TIMER WIRING

The timer-counter installs onto the side of the left channel using the stud at the end of the spacerbar.

There are three wires that connect to the timer-counter:

1) Power supply: This is the gray cord that is part of the photocell assembly wiring. After attaching the photocell wires to the hydraulic assembly, lead the gray wire across the spacer-bar to the left channel and out the hole in the channel.



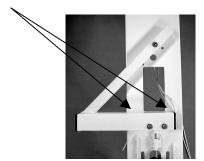
- 2) Heart monitor: Attach the heart rate receiver to the top-middle of the spacer-bar using the foam-tape that is pre-attached to the receiver. Note the orientation this is important for proper pickup of the signal. Run the wire over to the left channel and out the same hole.
- 3) Proximity sensor and magnets: See page 11 for proximity sensor instructions. The wire runs down the left channel in pre-installed clips and out the same hole as the other two wires.

Plug the wires into the appropriate jacks.

When the timer-counter is bolted on and wired, pull any excess wire back into the inside of the Treadwall, bundle it up, and tie it to the spacer-bar with wire ties. Make sure there are no loops of wire that could catch on moving parts.

PHOTOCELL ALIGNMENT

You may find that when you put to switch onto "Autostop" that the wall is locked up and will not release, even when there is nothing blocking the photocells. This is usually because the photocells are out of alignment and not pointing directly at the reflectors on the other side of the Treadwall. Loosen the two long mounting bolts on the lower part of the photocell bracket and push or pull it into line until it works properly. Then slip cardboard shims between the photocell bracket and the channel either in the front or back to keep it in alignment when you re-tighten the bolts.



PHOTOCELL TEST:

When the alignment is correct, the wall will lock up when you block either one of the reflectors by putting your hand directly in front of the reflector itself. *It is important to do this test.* If the alignment is a little off, you may have to block both reflectors to make the brake work.

Only the photocell side ever needs adjustment. The reflector side is never a problem.

Instruction Card:

A laminated instruction card with a ball chain is included with the Treadwall. Hang it from the right frame on the cable attachment pin. This pin uses a split ring instead of a cotter pin, and the instruction card hangs from this ring.

Purging the Hydraulic System:

Sometimes when the Treadwall is first assembled, the control system runs a bit rough and noisy - almost a grinding sound - and the wall doesn't descend smoothly. This is due to air in the system that foams into the oil and causes cavitation in the pump. To purge the air, put the wall at the steepest angle, set the control valve at the fastest setting, and pull the wall around steadily and slowly for about 15 seconds. Let the wall sit for about 5 - 10 minutes, and do it again. If you do this about 3 times, the air will percolate up into the reservoir where it belongs, and the wall will run smoothly.

Climbing tips:

- ♦ Some people like to climb fast and some climb slowly.
- Fast climbing provides a quick pump, and at easy angles an excellent aerobic workout.
- ♦ Slow climbing promotes fluid motion, balance, flexibility, and at harder angles a great upper-body workout.
- ♦ The photoelectric braking system in the Treadwall insures that the wall will always stop before the climber reaches the bottom of the wall.
- Some climbers like the wall to operate continuously without the photocell-brake stopping the wall. A switch on the control panel allows you to put the Treadwall into this mode. Continuous operation is particularly good for aerobic climbing.
- Climbing is most comfortable when the speed of descent is matched to the climbing speed, so that the wall rarely stops. Adjust the speed dial as you climb to a comfortable level.

Why is climbing on the Treadwall one of the world's best forms of exercise?

- Climbing is a true whole-body exercise. Climbing naturally works out almost every muscle in the body.
- Climbing is non repetitive. Many forms of exercise work out the same muscles over and over, but not climbing.
- ◆ Climbing is progressive. Anyone can climb, but the more you climb, the better you get even if you climb for years and years.
- ◆ Treadwall Climbing promotes balance, stretching, flexibility, upper-body strength and aerobic conditioning. No other form of exercise is so versatile.
- Climbing is fun and engages the mind.
- ◆ There are no age limits and very few physical handicaps preclude climbing on the Treadwall.

The last word:

NOBODY LIKES GOING BACK!

Treadwalls get installed in the darndest places, sometimes hundreds of miles from where installers call home. Making that long trip across the panhandle and down through the wastelands to fix some stupid little problem is a project to avoid, even if you have a keen appreciation for deja-vue.

Its the little things that count - at least that's what we have found. Those little tiresome details

have shown up on the whack-your-head-and-say-duh screen:
Masterlink or Monsterlink? Every masterlink has three parts. What if you leave off the plate with two holes? What if the spring clip isn't put on right? It can get pretty ugly!
Sprocketa-sprocketa! Didn't tighten the setscrews on the pump sprocket? Forgot to bolt the big security fender-washer onto the end of the shaft? Better hope that nobody over 30 lb. wants to climb the Treadwall.
What the hell is a Climbometer? Time? Distance? Heart rate? Whatever. It ain't gonna work if the sensor and magnets aren't adjusted right. And treat that reed-switch sensor with respect! And make sure the wires are out of harm's way.
Bolts and nuts are falling down falling down falling down and for some reason the shroud only has one bolt on the right side! Yes – it's actually happened. Loss of concentration is my guess – or maybe glue sniffing. Check everything before putting on panels.
Mommy! Mommy! What's that thing sticking out of the Treadwall? Well technically, it's a piece of 5/16 hot rolled round, threaded at one end. But now it's a chunk of twisted scrap metal that's gonna be nasty to replace – and all because someone forgot to lock down that internal turnbuckle. With a cable tie or wire twisted through the eye and the body of the turnbuckle it can't happen.
Chain-chain-chain chains that fool . Chains too tight? Works great for Ralph but Alice can't budge it. Too loose? Could be worse. Take out all the slack, but don't over-tighten. Check them one last time before leaving, and make sure someone knows how to adjust them!!!
Sometime she stop, sometime she don't! Photocells aligned give stellar performance. Photocells askew are left in the dark. Take the time to do the test on page 15 and make sure they are right.