



**Mobile 4 Station Climbing Wall
&
3 Station Bungee Trampoline**

Operations Manual

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Welcome

It is with great pleasure that we congratulate you on your combo purchase and welcome you to Vertical Reality. We are excited about our products and feel confident that through proper planning, placement and hard work, the COMBO will be a rewarding and profitable purchase. Our philosophy is centered on a commitment to excellence in meeting the needs of our customers, providing a quality product that is safe, exciting and profitable. We encourage you to likewise develop a standard of quality and service that makes you the leader in supplying mobile climbing walls for the amusement, entertainment and special attractions market.

Our goal is to establish a relationship with your company. One that will promote Vertical Reality and your company, as successful partners, providing entertainment for those who are looking for a climbing attraction.

Our part in making our team successful is:

- Commitment to proper, effective, Safe and profitable design
- Seven days per week customer service support
- Manufacturing to "ASTM F-1159-97a" ASTM F24 safety standards for the amusement industry
- Cycle time that generates high profits

Your part in building a successful business using Vertical Reality products is:

- Commitment to safe operation
- Consistent inspection for proper maintenance
- Effective marketing and promotion
- Active promotion of the activity

We are looking forward to a long and prosperous relationship. Should you have any comments or questions, please do not hesitate in calling.

Sincerely,

Ken A Sharkey

Confidentiality Agreement

This manual and the content within this manual are for the exclusive use and operation of the COMBO product by the owner of the COMBO and its authorized personnel and for Vertical Reality. This manual is designed to provide accurate and authoritative information in regard to the subject matter covered. This manual may not be reproduced in whole or part in any form or by any means, without the prior written consent of **Vertical Reality**

Confidentiality

This manual contains proprietary information belonging to Vertical Reality. It is to be viewed only by persons employed by Vertical Reality and/or the COMBO owner and authorized personnel.

Distribution

This manual is not to be distributed to any other persons other than those actively engaged in the operating and/or marketing of the COMBO product to customers serviced by the owner of the COMBO mobile climbing wall.

Disposition

This manual is the property of the COMBO owner and Vertical Reality and must be returned to Vertical Reality upon receipt of an updated manual or discarded.

Revision

Vertical Reality may make periodic additions, deletions and modifications to this manual. These updates will, in the judgment of Vertical Reality, add to the quality of services offered. This manual must be kept up to date, and should reflect all updates currently in use.

Notice of Changes

In the event that revisions are made to this manual, Vertical Reality will send the appropriate pages reflecting such changes as are deemed necessary or replacement document, to the individual for replacement. Any pages that are then outdated must be destroyed and discarded.

In the event replacement pages are to be sent, Vertical Reality will provide a cover letter outlining the revision and the effective date of any procedural changes.

Receipt and Acknowledgment Of Manual and Warranty

This **Training/Operations Manual and Warranty Registration** are important documents intended to help you become acquainted with the Mobile climbing wall, Vertical Reality and guidelines as to safe and recommended operation.

Please read the following statement and sign below to indicate your receipt and acknowledgment of the Mobile Climbing Wall/Vertical Reality Training Manual and Warranty registration.

I have received and read my copy of the Mobile climbing wall/Vertical Reality Training Manual and Warranty. I understand that the information outlined in this manual are subject to change at the sole discretion of Vertical Reality at any time. It is further understood that the owner of the COMBO has the responsibility to ensure the correct and latest version of the manual is being used.

As an owner of the COMBO or authorized representative, it is my responsibility to;

Keep this manual up-to-date with any changes that are made by Vertical Reality

I understand that my signature below indicates that I have received the Mobile climbing wall/combo Vertical Reality Training Manual and that I have read it.

Authorized Representative

Date

Vin Number

Date Purchased

The signed original copy of this agreement will be held in the **Corporate Office in Miami, FL.**

This training course is an introduction to the **COMBO** and its operation. The purpose of this manual is to provide a compilation of information that will assist you in proper and safe operation.

This manual is designed to aid in training you and your associates. The sections within this manual are prerequisite to each other. In other words, the information in section one pertains to the information in section two.

The philosophy of **Vertical Reality** is centered on a commitment to excellence in meeting the needs of its customers and associates by providing them with the enclosed information.

The manual is designed to provide the wall owner with the information, tips, and techniques that will help the employees and owner operate the wall & Combo as effectively and safely as possible. It is no way a total representation of all facts. Safe operation of this wall is the sole responsibility of the wall/ combo owner/operator. Good and reasonable judgement must be used when traveling, promoting and/or operating the wall.

Training Objectives

Upon reviewing this training, you will be able to complete the following:

- Explain specific information regarding the background and history of Vertical Reality
- Understand the process for proper set-up of the Mobile climbing wall combo
- Identify and understand the inspection points for day-to-day maintenance.
- Define and understand the safe operation of the Mobile climbing wall/combo
- Identify and explain the rules for safe usage of the Mobile climbing wall/combo

Company Overview

Vertical Reality, located in Miami, FL is a manufacturer/distributor of commercial interactive sports and fitness-fun equipment used in the amusement and recreational fitness markets. Designed for fun, VR is the premier provider of commercial action based products to be used in the amusement, fitness and recreation industry. Safely engineered VR products provide maximum revenue while providing thousands of hours of safe and exciting entertainment for your customers.

Mission Statement

To be the premier provider of revenue-generating *interactive sports* products used in the amusement and fitness markets.

Corporate Values

Our philosophy is centered on a commitment to excellence in meeting the needs of our customers, providing a quality product that is safe, exciting and profitable.

Mobile Climbing Wall Combo

Product Overview

Welcome to the Mobile Climbing Wall Combo, Vertical Reality's latest in revenue generating interactive sports products designed for the amusement, entertainment, and fitness industries. Complete with redundant auto-belay devices, the COMBO maximizes profit and safety. Different from other Mobile climbing walls, the COMBO does not use, what is commonly termed as, a person for belaying. The reason for this is because of the auto belay devices. With the auto-belay devices doing all of the belay work and ensuring safety, the person(s) operating the wall act more like a coach offering encouragement and direction. The COMBO is designed to meet ASTM F-1159-97a standards for the Amusement Industry. This means that the COMBO is designed, manufactured, tested, and supported by comprehensive quality assurance and quality control measures to ensure product reliability and safety. The enclosed information is an outline as to the procedures for safe operation and set-up of the product. In addition to the climbing wall features the combo has 3 bungy trampoline stations that can be set up in conjunction with the wall to create a truly unique experience. The bungy trampoline stations utilize a powered winch to stretch elastic bands that are

attached to a harness on the jumper, thereby providing a means for the jumper to achieve great heights and perform aerial maneuvers not possible on a normal trampoline.

Warranty (from date of invoice)

Product Warranty - 1 year on frame, anything steel structure related

Hydraulic Cylinder(s) - 12 months per manufacturer

Climbing Harnesses and Carabiner's - per the manufacturers' warranty and specifications

Winches -90 days

What is an "Auto-Belay?"

The Belay

In order to understand the term auto-belay, we must first define the term belayer respective to traditional rock climbing. The act of belaying can be defined as a procedure of securing a climber by the use of a rope. In recreational sport climbing there are generally two people involved in a climb. A climber, the person climbing the intended surface or structure, and the person who is providing the safety for the climber, known as a belayer. The belayer's role is to use two hands on a braking device, which controls the descent of the climber. One of the functions of the belayer is to ensure the rope slack is taken up as the climber ascends and ensure that the rope does not get tangled up which would result in the climber dangling. Once the climber asks to come down, it is the function of the belayer to allow the rope to pass through the braking device such that the climber descends at a rate that is not too fast or too slow.

The biggest fear in manually lowering someone as a belayer, is that a belayer could drop the climber out of control, or let the end of the rope pass through the belay device such that the climber falls to the ground. Both of these mistakes have often happened, and to very experienced climbers

Auto-Belay

Vertical Reality is using the term "auto-belay" to describe its automated belaying process. Rather than a person acting as the belayer, Vertical Reality uses a pressurized air/oil hydraulic system that automatically controls the rate of descent when a climber falls or chooses to come down off the wall. The intended function of the automated belaying system is to take up the slack in the climbing

cable as the person climbs. As a climber climbs the wall, the climber will take weight off of the cable, in which the positive air pressure in the hydraulic system causes the cable to retract or to functionally take up the cable slack. This works by air pressure forcing the hydraulic fluid into the pistons the whole sequence is reversed for the controlled descent of the climber. A human person in the sport of traditional rock climbing generally performs this function. However, the auto belay system used by Vertical Reality provides a system that automates this function. The automated system eliminates the need to rely upon a human belayer for every climber rather; allowing a single person (belayer or instructor) to supervise all three climbers. This ensures safe and proper climbing, eliminating the use of a human belayer. The COMBO with its auto belay devices allows for 4 climbers to climb the wall simultaneously with only one person, 2 if busy, acting as a belaying coach along with 3 bungee trampoline participants. Whereas in traditional rock climbing, every climber would require a belayer. This simple feature means that when operating a wall for profit, the COMBO generates more profit than a wall requiring human belayer's by simply reducing the amount of labor needed to operate the wall.

Safety Standards

Is the auto belay safer than a human belayer? ABSOLUTELY, Vertical Reality answers this question by manufacturing their COMBO product with two hydraulic cylinders for every climber. Two cylinders mean that a redundant system is in parallel, which will ensure that if one hydraulic cylinder fails, a second system will take up the slack and function in a safe manner. In comparison to recreational climbing using manual belayer's, 2 belayer's would be required to belay for each climber. Imagine the payroll requirement you would need on a manual system compared with the safety system featured in the COMBO Climbing Structure. However, in fairness, rock climbing has its inherent risks. A participant climbing on the COMBO can be injured. Even though the COMBO system is automated, we require that a responsible person be assigned to ensure that the mechanical function of the COMBO is operating properly. As an owner of the Mobile climbing wall, it is your responsibility to make sure constant care and supervision is taken regarding the operation of this product.

How to set-up the Mobile climbing wall

The name COMBO is the product name for the entire system (i.e. COMBO and auto belay safety system). The mobile unit has been designed to travel down the road in a down/closed fashion. Aerodynamic because of its hollow shape, the mobile unit should travel relatively easily. As a reminder, please follow any and all rules established by a state or interstate highway system that you would travel in the course of conducting your business or transport of the product. Please abide by all traffic laws and warnings.

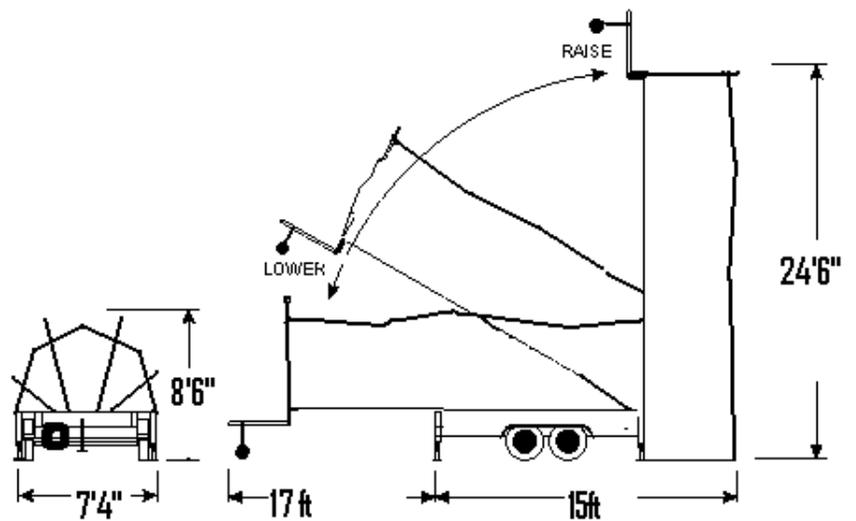
Physical Dimensions - The COMBO meets all requirements for physical size as outlined by the Department of Transportation. The dimensions of the COMBO are:

Specifications.

4 person combo trailer

- Width 88"
- Height 102"
- Length 24ft- 32ft depending on model wall
- Weight 3400 -4800 lbs. depending on model wall

Vertical Reality 4 person wall dimensions & specifications
Physical space required once set up 7'4" X 15'
Reccomeded operating space 20' X 20'
Storage space required 28' X 8' X 9'
2' ball and 7 way flat plug required for towing



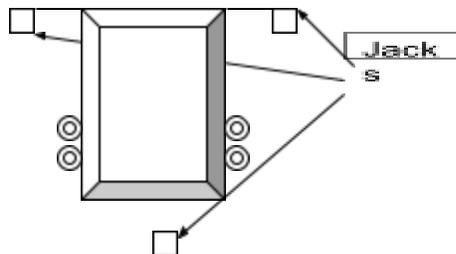
Mechanical Engineering Approval - The COMBO has been designed and reviewed by engineers that stand behind the COMBO design

Required Personnel - The COMBO must be operated by a minimum of 4 persons. However, for proper operation, Vertical Reality recommends that at least 5 or 6 people operate the attraction for optimal performance and safety. Vertical Reality recommends that one-person act as the climbing coach supervising any one or all of the climbers and a second person to harness the climber and obtain a parental consent or hold harmless signature in locations that may require such. The climbing coach should offer encouragement, entertain the climber and most importantly watch the belay cable to ensure that there is no excess slack in the cable or that the climber does not out climb the auto-belay device. The second person in charge of harnessing should ensure the Harness is worn correctly. A third and 4th person should operate the trampoline units and harness, pay close attention to the jumpers.

Hitch and Wiring - To pull the COMBO you will need a 2-inch ball and a seven-(7) prong FLAT BLADE wiring plug. Remember that your tow hitch must be equipped with a 12-Volt charge if you want the battery to charge as you are towing the unit. The new design of the trailer eliminates the use of electric brakes as surge brakes have been fitted to the trailer. For the folding trailer we use electric brakes and hydraulic brakes as an option. Please also ensure that you have an electric brake controller installed for the brake to work.

Setting up the COMBO wall with the short trailer design- the bungy section is set up separately

1. Upon parking the COMBO trailer in place, remove the trailer from the towing vehicle. Disconnect all wiring and chains from vehicles.
2. Level the trailer using the single rear jack such that the trailer dolly wheel is off the ground **FOLD UP THE DOLLY WHEEL**
3. Unlatch the rear jack arms and extend them as the diagram shows



4. Jack up the jack arms so the tires are at least (1) inch off of the ground.
Make sure that the jack pull pins are properly inserted before engaging the jacks (If Additional Height is required you may use a wood block under the jack plate).
5. Remove the retaining travel pin from the trailer
6. Attach a rope to each of the auto belay cables.
7. Move outside davit arms from travel position to operating position.
8. Remove combo poles from the inside of the wall structure
9. Locate the hydraulic lift control switch located on the driver's side of the trailer at the rear on the top piece. **Make sure there is proper clearance for the arc of the wall before up-righting the wall.** IF YOU HAVE THE FOLD UP TONGUE DESIGN THEN YOU CAN REMOVE THE PULL PIN AND THEREBY ENABLE YOU TO FIT INTO A 25 FT CEILING HEIGHT IF REQUIRED
10. **DO NOT PUSH AND RELEASE THE CONTROL BUTTON MULTIPLE TIMES WHILE RAISING THE WALL.** Rather, hold the button in continuously until the wall is upright. Once the wall is up using the leveling jacks, lower the trailer so that the COMBO frame is resting on the ground in whole or in part, maintaining level on the trailer frame. Make sure that only the metal frame is resting on the ground. If an obstacle or high point is the fiberglass before the metal frame is resting on the ground, you will break the fiberglass. As an option, if only a portion of the metal wall frame is resting on the ground, shim up the portion of the wall base not touching the ground with wood or metal shims. Shim only the metal frame!
11. At this point, the wall should be in an upright and locked position, the trailer level and at least a portion if not the entire wall solid on the ground (using shims if not).
12. Pull each cable down 1 at a time 6 inches and check for proper retraction.
13. Check to see that the oil pressure is 40 lbs. to 50 lbs. **WITH ALL THE CABLES AT THE TOP.**
14. Check to see that there is at least 4 inches of oil in the reservoir.
15. Pull the auto belay cables from the top of the wall by the ropes and secure to the climbing anchors on the bottom of the wall.
16. Check that the auto belays are functioning properly and pull them up and down a few times so the hydraulic oil will fill up the cylinders (bleed the system).
17. **Absolutely no climbing should be performed on the wall if the auto-belay is not functioning.** Make sure to always inspect the

Auto-Belay devices to ensure proper air-tank pressure (40 lbs. to 50 lbs. with the cables at the top), hydraulic leaks, pulley condition, the belay cable is taking up slack, etc.

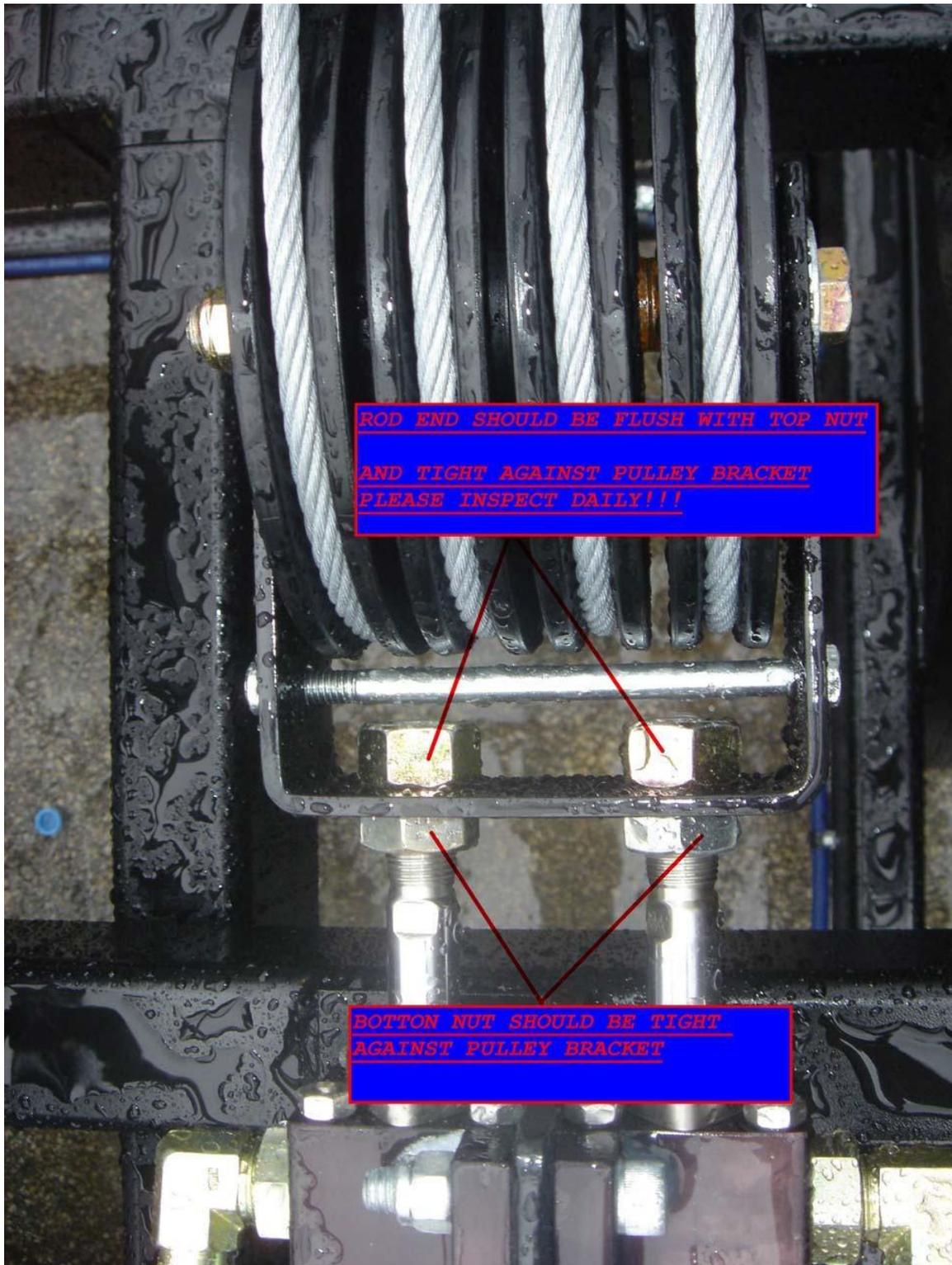
18. DO NOT operate the wall if wind speeds exceed 30 mph. It is the responsibility of the operator, climbing coach, owner, or other responsible party to be aware of weather conditions and make the appropriate call for closure of the wall if necessary. When closure of the wall is necessary, put the wall in the down position.

Inspections and Preventive Maintenance for Rockwall

Daily Inspections Rock Wall

As a means of properly maintaining the Mobile climbing wall and ensuring proper safety for the climber a daily inspection is required. **Cables must be inspected daily. If fraying or rusting has occurred, replace the cable immediately. Inspect the cable ends by the crimps. If fraying or Rusting broken strands, replace immediately. If the cables are kinked or show signs of wear, replace them as a matter of precaution.** With one operator on the front of the wall, manually extend the cable to arm's length while a second person inspects the retraction of the cable to ensure there is NO SLACK behind the wall. In addition, check each and every harness to ensure the stitching is tight and that the harness is in good working order. If the harnesses are visibly worn or are not functioning as intended, discard immediately and replace with new ones. Again, as a matter of precaution, you may want to replace harnesses yearly. For proper function of the auto belay system, make sure that the air pressure is between 40 lbs. and 50 lbs. with the cables at the top of the wall. Inspect daily for oil leaks, should a leak occur call Vertical Reality for details. **The appropriate amount of hydraulic fluid is 3 to 5 inches from the bottom of the tank with the cables at the top of the wall and should be AW 32 hydraulic oil.** For reference, the fluid level should be approximately 4 fingers from the bottom of the tank with the cables at the top of the wall. If you have any questions, please call Vertical Reality. Make sure to check the function of the swivels on each cable end. Make sure the swivels turn freely and are in good condition. **Check Carabineer's to ensure they function properly. If they stick open or do not lock positively, replace immediately. Check Carabiners for excessive wear, if worn, replace immediately.** Lastly, make sure the handholds on the wall are tight. If any of the handholds spin or are loose, tighten them. With all parts supplied from other manufacturers besides Vertical Reality (i.e. harnesses, Carabineer's, swivels) make sure to read and understand their respective warnings and instructions. **Auto bailey Piston head bracket, must be inspected and nuts checked for tightness. All ½ bolts must also be inspected for rust and condition. If replacement is deemed necessary it must be replaced with a**

grade 8 bolt only and nylon jam nut.



Weekly Inspections Rock Wall

Inspect fluid level in Hydraulic pump please see picture below, tank should be $\frac{3}{4}$ full when wall is in the down position. If low, add aw32 hydraulic fluid also known as Jack oil. (Available at most auto parts stores)



Inspect pulleys once a week. The auto belay pulleys are at eye level and can be inspected from the ground. For stationary walls, the guide pulleys at the top of the wall must be inspected by climbing up the front of the wall and inspecting from the front. Tie one end of the belay rope to the Carabineers' end of the belay cable. Release the cable, while controlling the ascent with the rope, and let the cable travel to the top of the wall. Make sure there is a smooth ascent and while pulling on the rope, a smooth descent (retraction of cable). The purpose of this exercise is to ensure that the mechanical function of the auto-belay is operating properly. If you experience any slack, call Vertical Reality for advice and instructions.

Mobile walls can be let down and inspected from the ground. For mobile units, inspect all hydraulic hoses after each travel trip. Check tire pressures on mobile units making sure they are at proper pressure. Check to make sure the hydraulic fluid is at an appropriate level. Always make sure that the fiberglass panels are not damaged in transit or if worn out, call to replace panel(s).

Check pulley Movement and also check the condition of the welds on the pulley brackets and pulley bar that attaches to the trailer, if there is evidence of rust please have the unit inspected to check that the welds are still 100 %. **Auto belay Piston head bracket, must be inspected and nuts checked for tightness. All ½ bolts must also be inspected for rust and condition. If replacement is deemed necessary it must be replaced with a grade 8 bolt only and nylon jam nut.**

NDT requirements

- Rides will require a 100% visual inspection at five years of age by a certified welder. Particular attention to all the structural welds on the trailer and metal condition.
- Repeat the 100% visual inspection every two years at the seven year mark.

Rock Wall Wear Dated Items

The following items are wear-dated items along with suggested guidelines for replacement:

- *Carabineers* - It is well known that equipment deteriorates progressively with use. It is difficult to give a precise lifetime because it depends on the environment where it is being used. Surface damage, corrosive wear, mechanical wear, or impairment of the mechanical function of the product is easily observed.
- *Swivels* - Again, the same warning for the Carabineers apply to the swivels.
Pulleys - Replace when worn
Cables -annually (every 12 months or 10000 cycles witch ever comes first regardless of condition) if equipped with a counter or sooner if frayed, rusted, kinked or crimps show signs of deterioration.
Cables must be purchased pre-assembled from Vertical Reality or installed by an approved Vertical Reality MFG representative.

Handholds - As needed. Handholds can wear out on a regular basis, depending on amount of usage. Call Vertical Reality or even better, order from our online store for replacements.

Harnesses - Replace when the fabric has visible cuts, tears, abrasion and/or damage caused by use, heat chemicals etc. The stitching is cut, worn, shows loose threads or when the buckles are not functioning properly.

Day-to-Day Operations

Now that the Mobile climbing wall is set-up and ready for operation, you've performed the appropriate inspections, it's time to address the issues of proper climbing.

Equipment - All 4 climbing runs are set up with auto locking Carabiners. We strongly recommend auto-locking Carabiners because of the safety feature of the auto-locking mechanism. In addition, we strongly recommend that our own VR climbing harness be used. This particular harness does not require a double-over requirement for securing the strap that other climbing harnesses require. Not only is the VR a safer harness, it is a harness that participants can secure with little help from the climbing coach because the harness is more straightforward and simpler to fasten. Any of these products can be ordered from Vertical Reality for approximately the same cost, as any local climbing retail store would offer.

For maximum through-put, we recommend that a second person (harness assistant) other than the climbing/belay coach make sure the climbing harnesses are tight and secure and are being worn properly. Having several climbers harnessed and ready to go ahead of time will result in maximum utilization of the wall.

Belay Coach & Harness Assistant- The belay/climbing coach is responsible for proper climbing. I-Es/her role is to ensure that the participant understands the rules and double checks the harness and equipment to check for appropriate wear and function. The belay coach is responsible to make sure that there is NO CABLE SLACK in the climbing line. In addition, the belay coach should be the ONLY non-climbing person in the 8' rappelling area in front of the wall. At Vertical Reality, we refer to this area as the "Climbing Zone" and its purpose is to provide a safe area whereby a climber can rappel without fear of coming down onto another person. The belay coach has the responsibility to ensure that each climber is safely directed out of the climbing zone, back to the harness area for removal of the harness after his or her completed or attempted climb. The belay coach should

Offer positive words of encouragement to both climbers and spectators. The more fun the belay coach can make the experience for the climber, the more enjoyable the event will be for the participant. Happy customers result in repeat business. The belay coach will be asked questions from the crowd and should try to answer questions without taking their eyes off of the climber. In an effort to assist the belay coach, the harness assistant should try to address all questions, if possible. This will allow the belay/climbing coach to manage the climbers on the wall effectively.

Harness assistant - This person's responsibility is to make sure the harness is being worn correctly for climbing. This person should make sure the appropriate harness is worn correctly (i.e. small children in a children's harness, a small to large person in the adult large harness, and a large adult in the adult extra-large harness). In addition, the harness assistant should recite the rules to the climber such that after the belay coach reviews the rules, each climber will have heard the rules twice. The harness assistant should try to take an active role in answering all questions from the crowd so that the belay coaches' attention is with the climbers. The harness assistant should always watch the wall in an effort to assist the climbing/belay coach in proper climbing.

Rockwall Posted Rules and Safety Tips - First, insure the climbing coach has double-checked the wearing of the harness and has properly instructed the climber on the climbing rules; which are:

1. Climbers stay within the respective climbing route, generally marked with different color handholds. If matching handholds, the four-foot area directly under the belay cable outlines the climbing area.
2. No swinging from side to side.
3. No stepping on the belay cable.
4. No climbing if cable does not retract.
5. Communications with the climbing coach only, no distracting other climbers with idle conversation.

6. When rappelling, keep the kick-off distance to a minimum (approximately 2 - 3 feet from the wall).
7. No climbing with shoes without toes or toe protection (i.e. no sandals, thongs, etc.).
8. DO NOT allow a climber to climb beyond the wall top. A climber should never climb higher than chest high to the top of the wall.
9. The weight range for the wall is 40 - 250lbs & a Minimum Height 42". It is possible for a child weighing less than 40 lbs. to climb the wall as long as the climbing harness is properly fitted. However, the climbing rope provided with the unit may need to be attached to the child's harness and the child pulled down after the climb.
10. Do not allow someone to sit and bounce on the belay cable when finished rappelling. Have them rappel onto their feet.

As a note, it may be necessary for the climbing coach to climb the wall to retrieve a child who may be frozen in place afraid to come down after they have climbed to whatever height.

By way of recommendation, as the climber climbs the wall, the belay coach should be interactive by offering positive words of encouragement and possible hand or foothold selection. As a climber rappels after having climbed to the top, make sure the area on the ground is free of any individual who could possibly get in the way of the repelling climber. The distance we recommend is approximately Eight (8) feet from the front surface of the mobile climbing wall. The only person who should be in this eight-foot area is the climbing coach. Upon the completion of a climb, the climber must wait for direction from the climbing coach before proceeding to the harness area for removal of the climbing harness. Likewise, the upcoming climber must be advised by either the climbing coach or the second person ensuring proper fitting of the harness before proceeding to climb on the wall. This will ensure that a rappelling climber will not descend onto an upcoming climber. *As an additional note, although Climbing Helmets are not required, we strongly recommend their use.*

Set up of the combo section

Place the wall trailer on level ground in a position that faces the crowd and traffic flow, and insure that you have sufficient height to operate the unit and that the poles are not near any power lines or obvious obstacles that might impede the jumper once jumping. Safe distance from obstacles is considered 5ft or more from recommended horizontal foot print and 6ft higher than the overhead height for indoor locations. The proper amount of space for the construction of the combo 3 WAY is -- 27 ft X 27 ft X 21 ft of available overhead (height) for assembly and 27ft of overhead height for operation indoors which includes the 6ft clearance from overhead obstacles. **Overhead Clearances from conductors:** A clearance of 15 feet in any direction shall be maintained from overhead conductors operating at 600 volts or less and any portion of an amusement ride or attraction. No portion of an amusement ride or attraction may be located under or within 15 feet horizontally of conductors operating at over 600 volts.

Flat, grassy fields or asphalt are ideal for the Combo. Do not erect the combo on a hill or a bumpy ground. When the ride is to be used on soil surface an 18 inch square wood board by 2 inches thick must be placed under the support legs. Blocking of the wheels is not required.

1. Make sure Combo Poles have been removed from the trailer.
2. Attach the poles to the swivel bases by using the 5/8 pins.



3. Swing out the arm supports and pin them in place, by installing ½ inch diameter pin through hole and securing with r-clip.
4. Swivel the stabilizing jacks to a vertical position and crank them until they are snug and feel tight. (It is not necessary to raise the wheels of the ground!!) .

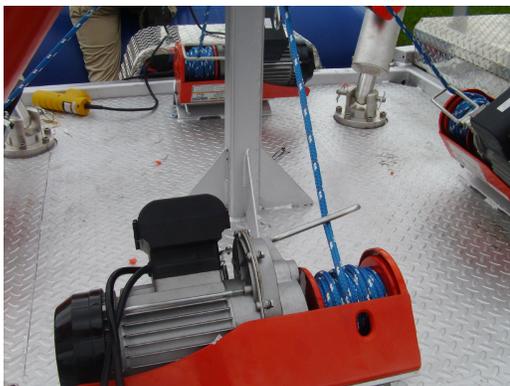


5. Remove the 2 Trailer tongue pins that attach the trailer tongue to the Combo and the 7 way electrical connector at the front of the trailer. The two pins are under the trailer, remove the r-clip from the end of the pin and slide out.
6. Attach the cables to each of the eye-nuts at the top end of the poles with the supplied carabiner.
7. Attach a jump set to each eye-nut. Attach the winch line to the winch pulley on the center of the jump rope





8. Remove the r-clips and pin from the support arm before raising the pole. (See picture above)
9. Attach the motors to the frame and let out about 20 feet of winch line. The motors are pinned into the frame and face the center support pulley guide.



10. With the assistance of another person, carefully raise the poles via the pole lift winch system or walk each toward the receiving cradle, and pin the pole into place using the pins and r-clips you just removed. The best method is using the automatic pole lift system or for someone to walk them up as the other person helps to guide them into position. Repeat for all other poles.



11. Attach the lower part of the cable, the end with the turnbuckle to the adjacent pole on each side and tighten. The cables will cross each other in an X pattern. **DO NOT OVERTIGHTEN.** Do this for all four poles.
12. Attach the harness to the loops or power cords. Plug in the unit, and test the smooth operation of the winch, making sure that the ropes are not tangled. (See picture below)



13. We can now begin to inflate the three trampolines by using the supplied 110 volt blower. The trampolines come equipped with an air valve that must be opened for inflation. The first step is to unscrew the air valve cover by turning the knob counter clockwise. The second step is to open the valve which is opened by pushing in and turning clockwise to lock the valve in the open position. The open position is used to inflate and deflate the trampoline. With the valve in the open position we can begin the inflation process by turning on the blower and pushing the blower hose against the valve. The inflatable must be filled until the trampoline wall feels hard to the touch. Once the trampoline feels hard you must now close the air valve by pushing the valve in and turning counter clockwise. If closed properly no air should be escaping the valve. Our last step is to re-install the air valve cover and turn it clockwise. (See the pictures below)





Combo Operator & Owner Guidelines

Number of Operators Required minimum 2

One operator per in use jump station is required at all times.

The Winch

The winch is the mechanism that allows for the raising and lowering of the jumper. Do not use the winch if it is raining or lightning. Should the winch or remote control get wet, be sure that it is completely dry before operating it again. When the winch is in use, double check that all ropes are untangled and moving freely; this should constantly be monitored. Make sure that the winch and all cables attached to it are in good working order and never winch in the rope knot closer than 2 inches to the pulley on the top tube. Stop the lowering motion of the winch before the winch rope becomes completely slack. The instructor should use the winch to help the jumper achieve the highest possible jump. This is done by winching the rope in while the jumper is in the upward motion. Do this with

extreme care and caution. Ideally, the jumper should never go deeper than 4 to 6 inches into the trampoline.

Always monitor the rope of the winch for tautness and that it is entering the winch smoothly and not rubbing against the housing of the winch.

Failure to notice this could result in serious damage to the rope.

Finally, do not allow any untrained person to operate the winch controls or be near the winches at any time. **The brake switch on the top of our 110V or 220V winch is not necessary or required for the purposes of operating a 4 in 1 bungee or any other bungee devices that we sell. It does not help or hinder the day to day operations of our bungee units. The break switch is there from the winch manufacturer and is used by other industries for other specific reasons not related to our design. (See picture of Brake switch below)**



The Elastics

As of May 2001 BUNGY TRAMPOLINE SYSTEM has two different kinds of elastics.

LOOPS and POWERCORDS

LOOPS

The elastics are the fundamental element of the Combo, which uses a combination of thin and thick elastic LOOPS. The elastics, in conjunction with the harness, connect the jumper to the frame of the Combo and it is the elastics system that allows the jumper to reach such incredible heights while simultaneously providing the stability for acrobatic movement.

The Combo is equipped with thin and thick BUNGY TRAMPOLINE SYSTEM-LOOPS.

This dual system allows for the various weight ranges of the jumpers, which must be between 30 and 220 pounds.

POWERCORDS

The new technique and patented elastics have an elongation of nearly 200 percent and are almost indestructible & unbreakable.

They do not last an eternity but last longer than LOOPS.

They do not provide as good a bounce, but have a safety outer shield that does not break. The elastics should be monitored constantly for signs of wear and tear.

Should elastic break or look worn, replace immediately.

Never use less than 2 LOOPS or Power cords per side of the harness.

The elastics life-span varies with the conditions of use, but you can expect roughly 3000 jumpers (based on 2-minute duration jump cycle and four trampolines). Only replace Bungee trampoline system elastics with Bungee trampoline system elastics; do not use any other elastic system in the Combo. Failure to do so will result in the negation of your warranty and create an unsafe situation. Be sure to store the elastics in a dry place. Should the elastics get wet, dry them completely before using them again. If you have any questions or concerns about the installation of the elastics, contact VERTICAL REALITY FOR SERVICE. You should expect a cost of .11c to 15c per jumper as replacement costs for bungees.

Make sure that all carabiners (snap-links) are in locked position and tightly secured before each use.

It is a good idea to keep a log of the date of purchase and usage of the elastics. If the elastics become entangled, untangle them periodically.

The Weight & Height Requirements

- The minimum weight of a person using the Combo should be no less than 30 lbs.
- The maximum weight per rider of the Combo BUNGY is 220 Pounds.
- There is no minimum height restriction.
- The rider harness should fit correctly

The following table shows how many types of elastic should be utilized per side of the harness with these various weights.

The weight scale is not critical to the operation. It is only a guideline for the operators.

Weight Range for POWERCORDS

Body Weight Number of Elastic

Pound	Elastics per side
30 to 50	2 black
51 to 70	1 yellow + 1 black
71 to 90	2 yellow
91 to 110	2 yellow +1 black
111 to 130	3 yellow
131 to 150	3 yellow + 1 black
151 to 170	4 yellow
171 to 190,	4 yellow + 1 black
191 to 200 pound	5 yellow
201 to 220 pound	5 yellow + 1 black

Weight Range for LOOPS (Latex tubing)

Body Weight Number of Elastic

Pound	Elastics per side
30 to 50	2 amber
51 to 70	1 blue + 1 amber
71 to 90	2 blue
91 to 110	2 blue +1 amber
111 to 130	3 blue
131 to 160	3 blue + 1 amber
161 to 180	4 blue
181 to 200	4 blue + 1 amber
201 to 220 pound	5 blue

NEVER USE LESS THAN 2 LOOPS OR POWERCORDS PER SIDE

A copy of this chart should always be posted at each trampoline for quick reference. This chart is meant to be a rough orientation. The number of elastics needed vary greatly with the individual abilities of the jumper. This effect becomes more pronounced at the upper end of the weight scale as it goes almost unnoticed at the lower weight classes.

- Use the higher number of elastics if jumper is on upper end of weight range and/or if the jumper is very dynamic and athletic.
- Never use any elastic that shows signs of wear and tear.
- Always replace elastics with Bungee trampoline system elastics; failure to do so will void your warranty.
- A jumper who is unable to refrain from swinging back and forth during the jump is attached to the incorrect number of elastics. Refer to the Safety Aspects and Troubleshooting Section in the Training Manual.

The Harnesses

The harness is the actual link between the jumper and the Combo, as it straps the jumper to the elastics system. To safely utilize the Combo, both the jumper and the instructor need to fully understand proper harness fitting, adjusting, and positioning techniques.

- Extra small
- Small - Medium
- Medium - Large

The jumper should be fitted in a snug-fitting harness;
The jumper should wear the smallest size he/she fits.
Getting a proper size is very important for both safety and comfort.

SHOULD THE CIRCUMFERENCE OF THE JUMPER'S HIPS BE TOO SMALL TO ALLOW THE COMPLETE TIGHTENING OF THE HARNESS WAIST-STRAP IN A SECURE MANNER, DO NOT allow participation. FAILURE TO MAINTAIN A SECURE WAIST WITHIN THE HARNESS WILL RESULT IN AN UNSAFE SITUATION.

The following is proper harness fitting procedure:

- The jumper is to stand in front of the harness.
- Place the top strap above the hips of the jumper. This strap is to sit low on the waist of the jumper.
- Close the buckle by putting one end into the other like in a car seatbelt; make sure the mechanism is “locked”.
- Tighten the strap around the hip, don't tighten too much, and check that the jumper feels comfortable.
- The carabineers (safe snap links) should be on the outside and above the hips of the jumper.
- If you cannot close the strap completely, use a smaller harness.
- Put the leg straps around the legs. A rough general adjustment of these straps should occur before feeding the strap in-between the legs of the jumper.
- Close the buckle and make sure it's locked.
- Tighten the strap around the leg and check the jumpers' comfort.



If the jumper does not fit in any of the harnesses, do not allow participation!!

The harness should fit the jumper tightly, but not so tightly that it is uncomfortable. The harness straps should rest comfortably at the top of the thighs and around the buttocks. Make sure that the clothing of the jumper is not bunched or gathered beneath the straps.

The instructor should ask the jumper how the harness feels and make sure that the jumper is comfortable and confident in the harness.

The jumper should be told to voice any concerns with the harness and or his/her comfort at ANY time during their time on the Combo. Should the harness become uncomfortable for the jumper during their time, instruct the jumper to

stop their movement and lower the winch down so the instructor can fix the harness.

During any time working on the harness, the instructor is to be aware of keeping his or her hands clear of the jumper's genital area.

The Trampolines

The trampolines are the elements of the Combo that allow the jumper to rebound and gain momentum by providing a bouncy cushion.

Once the jumper is standing safely on the trampoline, attach the harness immediately like described above and then pull the winch up slightly at first to ensure the jumper does not fall off of the trampoline. Make sure that the jumper is always connected to tensioned elastics while on the trampoline.

The instructor should not allow any horse-play on the trampolines.

The trampoline system is half of the fun in using the Combo but the jumper needs to be very careful on it as well. This means that the instructor needs to always be aware of the jumper and his/her placement on the trampoline. The jumper should try to stay in the center of the trampoline for maximum stability and height.

The instructor should not allow anyone else besides the jumper on the trampoline while the Combo is in use.

Emergency Release of patron due to power failure

Locate the ½ deep well socket supplied with the winch and insert it into the brake at the rear of the motor (by fan Blade) and turn the Shaft counterclockwise until the patron starts to come down.

Helpful Hints

The jumper should hold onto the elastics at all times, using them for support and stability. While holding onto the elastics, the jumper should pull on the elastics, using their muscles to increase their height and momentum. The jumpers need to feel and go with the bouncing motion, using the trampoline to boost themselves higher. The jumper should use the upward motion and momentum to accomplish summersaults/flips.

These can be best accomplished if attempted at the maximum height of the bounce with the jumper's legs tucked into the body and head tilted in the direction of the desired summersault.

The instructor/operator plays an integral role in the success of the jumper while on the Combo. He or she has a tremendous responsibility to maintain the jumper's safety at all times, while giving support and advice to aid in the jumper's movements. This involves listening and communicating with the jumper at all times and being aware of their situation. The instructor must constantly monitor the winch for optimal jumps while keeping the jumper from landing on the trampoline in an incorrect fashion. The instructor needs to relate helpful hints and always encourage the jumper's success.

For safety purposes an instructor/operator is not allowed to work more than one trampoline at a time. This means that a minimum of one attendant per trampoline is necessary for operation. The instructor/operator is fully responsible for the safety of the jumpers on his/her assigned trampolines.

The instructor/operator should experience the Combo for themselves and should understand how to facilitate bodily movements. The instructor must be a good motivator and must always listen to the jumper's concerns and impulses. The instructor must be a good communicator with a positive attitude and helpful words.

THIS IS A HIGH ACTIVE SPORT! Persons who have bad backs, necks, shoulders, broken bones, heart or lung problems, pregnancy, or any other medical condition should not participate in this activity. Jumpers should be in good health and should not be under the influence of drugs or alcohol while on the Combo. Jumpers should read and obey all rules, warnings, and instructions and should know they participate at **THEIR OWN RISK**. Bungee trampoline system / Vertical Reality cannot be held responsible for any injuries incurred and/or items lost or broken while on the Combo.

Weather Considerations

Do not operate or allow any participants on the Combo mobile if wind speeds exceed 30 mph.

Do not operate if it is raining, snowing or hailing.

Do not operate if lightning is visible.

Do not operate or set-up if severe weather is imminent.

Pre- Operation & Check List

It is very important that before using the Combo that the system has been properly installed according to the construction manual. If you have any questions concerning the Combo constructions, suspension system, elastics system, or frame, contact VERTICAL REALITY. Be sure that the proper amount of space is given for the construction of the Combo -- 27 feet X 27 feet X 24 feet (height). It is best to allow an additional 3 feet of height for extra safety coverage. In addition, be sure to erect the Combo on a relatively flat ground.

Flat, grassy fields or asphalt are ideal for the Combo. Do not erect the Combo on a hill or a bumpy ground surface that cannot resist weight or pressure.

It is very important that during the operation of the Combo, the instructor and on-site manager are continuously monitoring the rope assembly to ensure it is running smoothly and freely through the pulleys. Should the cables and/or ropes become entangled or are not moving freely, **DISCONTINUE THE USE OF THE Combo** & take corrective action before allowing anyone else to use the Combo. It is very important to check the elastics, cables, ropes, harnesses, connection points, and technical parts daily. Although this is a fun activity that everyone can enjoy, it must be managed and participated in safely. Do not allow any non-staff person to be near the winches or cables. Spectators are to stay in a clearly marked delineation area well clear of the jumping- and operation areas. The on-site manager must maintain a safe environment not only for the jumpers but also for the instructors. Keep lines around the Combo orderly to prevent confusion. No smoking, food, or beverages should be allowed in the Combo areas. The instructor must always monitor the height of the jumper's bounce, making sure there is always enough clearance. Also, be sure to monitor the jumper's position on the trampoline and their approximation to the beams of the Combo. Do not let the jumper bounce too far away from the center. The operator should maintain a minimum of 3 feet of clearance for the jumper, standing next to the winch with your back legs close to the frame will supply more than 3ft of clearance.

Daily CHECKLIST

The following activities should be performed every day before the Combo is used:

- Check all cables and cable attachments for tautness and stability.
- Check all carabiners (snap-links) for unusual wear. (Unusual wear is considered any groove deeper than a ¼ inch) Be sure they open and close properly.
- Check the winch for proper movement and that all cables/ ropes move freely.
- Check to see that the ropes are moving freely through the pulleys.
- Check all elastics / power cords for wear and tear--replace if necessary.
- Check all connection points of the frame.
- Check to see that all pins are in place and secured by their r-clips.
- Check to see that all parts are dry and clean.

- Check all connection points of the harnesses as well as any signs of wear.
(Replace harness if there is a tear larger than 1/4 inch on the padding and any tear on the waist or leg stitching.
- Check trampolines for damage or leaks.
- Check that all signs and warnings are properly posted.
- Treat the LOOPS daily with Talcum Powder at the end of operation for extended life.

Monthly Checklist

- Check Pole fasteners torque as follows: ½ diameter bolts torque to 60 ft-lbs and 3/8 diameter bolts to 30 ft-lbs.
- Inspect all trailer welds for cracks.

The daily and monthly check sheets are to be filled out by operator and signed by the on-site manager or owner. Manager/ Owner must keep all signed check sheets in a secure location. Please refer to section E for further info.

Wear Limits

- The elastics need to be replaced every 3000 jumpers (based on a 2-minute duration).
- The elastics need to be replaced if any size tear is noticed.
- The ropes need to be replaced if any size tear is noticed.
- Swivels are to be replaced if carabiner hole, pinhole or pulley has more than 1/8 inch of wear.
- Harness must be replaced every three years regardless of condition.
- Harness must be replaced if any tear to the padding is a ¼ inch or longer. Harness must be replaced if any tear to the stitching on the waist or leg straps is noticed.
- Cables must be replaced if turnbuckles do not turn freely or jam. Cables must be replaced if there are any broken strands larger than 1/8 inch in length or diameter.

Only replace old Bungee trampoline system parts with new Bungee trampoline system parts. Do not use any other elastic, cable, or harness system on the Combo. The use of unsafe materials will void your warranty and result in an unsafe situation. Never allow horse-play around the Combo.

Combo Safe Usage & Warnings To Be Posted

Before riding please read and follow these rules! The combo mobile trampoline system is a physically demanding high active sport activity.

Attention all guests: Read Important Safety Information and follow the

Instructions of the Attendants at all times.

- You must weigh between 30 and 220 pounds to jump.
- Jumpers must be in excellent physical condition to jump.
- All jumpers must be able to properly utilize all safety restraint devices.
- Due to the restraining device on this attraction, certain bodily proportions may prohibit participation.
- Allowing of Flips is strictly up to the operator.
- Please remove all jewelry before jumping.
- As soon as swinging movements occur, stop jumping immediately.
- Only vertical movements are allowed.
- Do NOT land with your head or shoulders on the trampoline.
- No hard soled shoes or heels allowed.
- Operators are not responsible for lost or damaged items left or brought into the area.
- No Smoking, Drinking or Eating inside the "Combo-TRAMPOLINE" area.
- Parents are responsible for their children at all times.
- Jump at your own risk!

THE FOLLOWING PEOPLE SHOULD NOT USE THE BUNGY-TRAMPOLINE

Persons who

- Are under the influence of drugs or alcohol
- Have pre-injured tendons
- Have had fractures, in particular to the shoulder or arm area
- are pregnant
- Have any form of physical or medical problems or who are generally unsure about their state of health
- Have a significant physical ailment or condition
- Have had a back, neck or any other type of skeletal or muscular problem or previous injury
- Have high blood pressure, heart trouble, motion sickness, or nervous disorders
- Are over average weightlifters

Takedown of the Combo wall - Upon the end of an event or use of the Combo wall, please follow the following steps to ensure safe and proper takedown of the Mobile climbing wall.

1. Let the auto belay cables go up to the top of the wall with the supplied ropes.

2. Deflate the trampolines.
3. Remove turnbuckle ends of cable from adjacent pole.
4. Remove the pin from the U-Bracket.
5. Set the bungee poles down and pack all bungee equipment away. Using the same procedure as set-up.
6. Raise the COMBO off the ground 2 - inches using the trailer jacks.
7. After ensuring that it is safe to lower the wall and that there is proper arc clearance, press the switch in the down position and hold firmly until the wall middle support touches the trailer frame.
8. Install combo poles inside wall brackets.
9. Move outside davits to travel position and pin.
10. Secure back-up chains and emergency brake cable.
11. Connect wiring for lights.
12. As always, make sure to obey all traffic laws and regulations.

Entertainment Tips - Never forget that your COMBO is a fun attraction and will draw attention. Use this unique feature to book company picnics, birthday parties, corporate promotion events, special events, public attractions, fairs and festivals to name a few. Never forget that the wall can be equipped for corporate advertising generating revenue up and above the charge by the climb revenue. The belay coach should be someone who enjoys people and has a positive rapport with people making your attraction fun for the entire family. Remember that this wall was not necessarily designed for climbers. Route the wall for the intended market - those who have always wanted to give rock climbing a try. The COMBO is a product designed for fun!

Marketing ideas to Consider

This information is in no way comprehensive. It is a dynamic list that keeps growing. However, for the purpose of brainstorming and generating ideas, the following are marketing considerations.

- Corporate Sponsorship
- Sports Event Marketing
- Fairs
- Parties
- Charity Events
- Graduation Parties
- Tourist Attractions

Trade Shows
School Events
Amusement Park Lease
Street Festivals
Radio and Television Station promotion
Etc.

Make sure to work with your local Chamber of Commerce, Convention Bureaus, Non-profit Organizations and Advertising/Public Relations Firms to ensure your wall is marketed to its fullest.

Conclusion:

This guideline has been written to assist in the proper installation and operation of the Mobile climbing wall. Vertical Reality has tried in its best effort to address relative issues; however, there will be additional information learned or situations that occur that we are unaware of at this time. Please, do not hesitate to call seven days a week with any technical question. Remember, there may be questions, issues and/or concerns that may arise through the use of this product that are not listed or addressed in this manual, please keep us informed. It is the responsibility of the owner and/or operator of this product to contact Vertical Reality if any questions or concerns arise. As with any amusement device, physical harm can occur and operators and participants must realize that this product is a physical activity and that proper care should be taken to ensure safety. Please exercise good common sense and good judgement while operating and transporting the Mobile climbing wall.



DAILY AND MONTHLY CHECKLIST:

The following activities should be performed every day before the Combo Rockwall is used !

DATE

VIN NO

OWNER:

ROCK WALL PORTION

- o Check Cable for signs of rust total length
- o Check Cable Crimps
- o Date of last cable change
- o Hoses tightened on all belay system
- o Oil level in belay tank with cables at the top
- o Pressure in belay tank with cables at the top
- o Belay system checked for proper operation
- o Cables retracting evenly and smoothly
- o Check for rust on belay cylinders
- o check welds on top pulley bracket assembly
- o Harnesses in good shape no signs of loose stitching
- o Carabineers working and not worn out
- o Check nuts that attach pulley bracket to rod ends

Monthly Rock wall section

- o Inspect fluid level in Hydraulic lifting pump, tank should be $\frac{3}{4}$ full when wall is in the down position. If low, add aw32 hydraulic fluid also known as Jack oil. (Available at most auto parts stores)
- o Inspect all hydraulic hoses for wear or leaks.
- o Check pulley Movement and also check the condition of the welds on the pulley brackets and pulley bar that attaches to the trailer, if there is evidence of rust please have the unit inspected to check that the welds are still 100 %.
- o Auto bailey Piston head bracket, must be inspected and nuts checked for tightness. All $\frac{1}{2}$ bolts must also be inspected for rust and condition. If replacement is deemed necessary, it must be replaced with a grade 8 bolt only and nylon jam nut.
- o Check fiberglass panels for cracks or sharp edges.
- o Inspect all welds on rock wall top and auto-belay frame.

BUNGEE SECTION

- o Check all cables and cable attachments for tautness and stability.
- o Check all carabiners (snap-links) for unusual wear. **(Unusual wear is considered any groove deeper than a $\frac{1}{4}$ inch)** Be sure they open and close properly.
- o Check the winch for proper movement and that all cables/ ropes move freely.
- o Check to see that the ropes are moving freely through the pulleys.

- o Check all elastics / power cords for wear and tear--replace if necessary.
- o Check all connection points of the frame.
- o Check to see that all pins are in place and secured by their r-clips.
- o Check to see that all parts are dry and clean.
- o Check all connection points of the harnesses as well as any signs of wear. **(Replace harness if there is a tear larger than 1/4 inch on the padding and any tear on the waist or**
- o Check trampolines for damage or leaks.
- o Check that all signs and warnings are properly posted.
- o Treat the LOOPS daily with Talcum Powder at the end of operation for extended life.

Monthly Checklist:

- o Check Pole fasteners torque as follows: ½ diameter bolts torque to 60 ft.-lbs and 3/8 diameter bolts to 30 ft.-lbs.
- o Inspect all trailer welds for cracks.

The daily and monthly check sheets are to be filled out by operator and signed by the on-site manager or owner. Manager/ Owner must keep all signed check sheets in a secure location.

Wear Limits

- ❖ The elastics need to be replaced every 3000 jumpers (based on a 2-minute duration).
- ❖ The elastics need to be replaced if any size tear is noticed.
- ❖ The ropes need to be replaced if any size tear is noticed.
- ❖ Swivels are to be replaced if the carabiner hole, pinhole or pulley has more than 1/8 inch of wear.
- ❖ Harness must be replaced every three years regardless of condition.
- ❖ Harness must be replaced if any tear to the padding is a ¼ inch or longer. Harness must be replaced if any tear to the stitching on the waist or leg straps is noticed.
- ❖ Cables must be replaced if turnbuckles do not turn freely or jam. Cables must be replaced if there are any broken strands larger than 1/8 inch in length or diameter.
- ❖ Only replace old Bungee trampoline system parts with new Bungee trampoline system parts. Do not use any other elastic, cable, or harness system on the 4 WAY. The use of unsafe materials will void your warranty and result in an unsafe situation. Never allow horse-play around the 4 WAY.

Inspectors Name:

Phone number:

Signature:

Accident Report Form

We anticipate that you never will have to use this form, however in the unlikely event of a accident, please fill out the following details and fax to us ASAP at 305 4432820

- Date of accident
- Place of accident
- Time of accident
- Name of injured person
- Address of injured person
- Phone of injured person
- Was 911 called and please attach a copy of the report
- Extent and nature of injury
- What caused the accident
- Was the person intoxicated or under the influence of alcohol or drugs
- Were Vertical Reality's safety rules posted
- Was your staff properly trained in the operation of the wall
- Was the wall shut down for inspection after the accident occurred
- Name of person signing the report
- Signature

Troubleshooting Guide

Technical Problem

Trailer lighting isn't working correctly.

See appendix F to determine correct wiring

Wall won't raise.

Is the hydraulic motor getting power?

If NO

- Check battery voltage and connections.
- Check hand control connections.

If Yes

- Has the tie downs been removed.
- Check hydraulic fluid level.

Wall won't go down.

Is the hydraulic motor getting power?

If NO

- Check battery voltage and connections.
- Check hand control connections.

If YES

- Make sure wall is raised of the ground

Auto belay cable will not retract when wall is vertical

- Check air tank pressure is between 35 and 40 psi with cables at the top
- Check for air leaks using soapy water
- Check cable routing for obstructions
- Check that pulleys are rotating freely
- Check ram alignment